

# **Element Materials Technology**

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# MEASUREMENT REPORT FCC PART 15.247 / ISED RSS-247 WLAN 802.11b/g/n/ax

Applicant Name: Date of Testing:

Apple Inc. 5/20/2024 - 7/12/2024

One Apple Park Way

Cupertino, CA 95014

Test Report Issue Date:
9/9/2024

Cupertino, CA 95014 9/9/20
United States Test \$

**Test Site/Location:** 

Element Materials Technology Morgan Hill, CA, USA

Test Report Serial No.: 1C2405200018-14.BCG

FCC ID: BCGA2995

IC: 579C-A2995

APPLICANT: Apple Inc.

Application Type: Certification
Model/HVIN: A2995, A2996
EUT Type: Tablet Device
Frequency Range: 2412 – 2472MHz

FCC Classification: Digital Transmission System (DTS)

FCC Rule Part(s): Part 15 Subpart C (15.247)

ISED Specification: RSS-247 Issue 3

**Test Procedure(s):** ANSI C63.10-2020, KDB 558074 D01 v05r02,

KDB 662911 D01 v02r01

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

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.

Prepared by: WKR0000007111

Reviewed by: WKR0000005849





| RJ Ortanez                      |
|---------------------------------|
| <b>Executive Vice President</b> |

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT (CERTIFICATION) | Approved by:<br>Technical Manager |
|------------------------------------|-----------------------|------------------------------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                          | Dogg 4 of 420                     |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                      | Page 1 of 430                     |

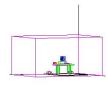


# TABLE OF CONTENTS

| 1.0 | INTR | ODUCTION                                   | 4   |
|-----|------|--|-----|
|     | 1.1  | Scope                                      | 4   |
|     | 1.2  | Element Materials Technology Test Location | 4   |
|     | 1.3  | Test Facility / Accreditations             | 4   |
| 2.0 | PROD | DUCT INFORMATION                           | 5   |
|     | 2.1  | Equipment Description                      | 5   |
|     | 2.2  | Device Capabilities                        | 5   |
|     | 2.3  | Antenna Description                        | 8   |
|     | 2.4  | Test Support Equipment                     | 8   |
|     | 2.5  | Test Configuration                         | 9   |
|     | 2.6  | Software and Firmware                      | 9   |
|     | 2.7  | EMI Suppression Device(s)/Modifications    | 9   |
| 3.0 | DESC | CRIPTION OF TESTS                          | 10  |
|     | 3.1  | Evaluation Procedure                       | 10  |
|     | 3.2  | AC Line Conducted Emissions                | 10  |
|     | 3.3  | Radiated Emissions                         | 11  |
|     | 3.4  | Environmental Conditions                   | 11  |
| 4.0 | ANTE | NNA REQUIREMENTS                           | 12  |
| 5.0 | MEAS | SUREMENT UNCERTAINTY                       | 13  |
| 6.0 | TEST | EQUIPMENT CALIBRATION DATA                 | 14  |
| 7.0 | TEST | RESULTS                                    | 15  |
|     | 7.1  | Summary                                    | 15  |
|     | 7.2  | 6dB BW and 99% OBW Measurement             | 16  |
|     | 7.3  | Output Power Measurement                   | 52  |
|     | 7.4  | Power Spectral Density                     | 66  |
|     | 7.5  | Conducted Authorized Band Edge             | 130 |
|     | 7.6  | Conducted Spurious Emissions               | 261 |
|     | 7.7  | Radiated Spurious Emissions – Above 1 GHz  | 269 |
|     | 7.8  | Radiated Spurious Emissions – Below 1GHz   | 419 |
|     | 7.9  | AC Line-Conducted Emissions Measurement    | 424 |
| 8.0 | CON  | CLUSION                                    | 430 |

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | element MEASUREMENT REPORT (CERTIFICATION) |               |
|------------------------------------|-----------------------|--|---------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                                  | Dags 2 of 420 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                              | Page 2 of 430 |





# **MEASUREMENT REPORT**



|               |                    | Antenna 3a      |                     |                 |                     |                    | Antenna 1a          |                    |                     |                 | CDD                 |                    |                     |  |
|---------------|--------------------|-----------------|---------------------|-----------------|---------------------|--------------------|---------------------|--------------------|---------------------|-----------------|---------------------|--------------------|---------------------|--|
|               |                    |                 |                     | ilia sa         |                     | Amenda la          |                     |                    |                     | Summed          |                     |                    |                     |  |
| Mode          | Tx                 | Avg Co          | nducted             | Peak Co         | nducted             | Avg Co             | nducted             | Peak Co            | nducted             | Avg Co          | nducted             | Peak Co            | nducted             |  |
| Mode          | Frequency<br>(MHz) | Max. Power (mW) | Max. Power<br>(dBm) | Max. Power (mW) | Max. Power<br>(dBm) | Max. Power<br>(mW) | Max. Power<br>(dBm) | Max. Power<br>(mW) | Max. Power<br>(dBm) | Max. Power (mW) | Max. Power<br>(dBm) | Max. Power<br>(mW) | Max. Power<br>(dBm) |  |
| 802.11g       | 2412 - 2472        | 133.352         | 21.25               | 490.908         | 26.91               | 130.918            | 21.17               | 463.447            | 26.66               | 239.883         | 23.80               | 877.001            | 29.43               |  |
| 802.11n       | 2412 - 2472        | 136.773         | 21.36               | 509.331         | 27.07               | 134.586            | 21.29               | 479.733            | 26.81               | 246.037         | 23.91               | 883.080            | 29.46               |  |
| 802.11ax (SU) | 2412 - 2467        | 128.825         | 21.10               | 493.174         | 26.93               | 141.254            | 21.50               | 484.172            | 26.85               | 241.546         | 23.83               | 879.023            | 29.44               |  |

#### **EUT Overview (Low Data Rate)**

|               |                 | Antenna 3a      |                     |                 |                     |                    | Antenna 1a          |                    |                     |                 | CDD                 |                    |                     |  |
|---------------|-----------------|-----------------|---------------------|-----------------|---------------------|--------------------|---------------------|--------------------|---------------------|-----------------|---------------------|--------------------|---------------------|--|
|               |                 |                 |                     |                 |                     | Antenna Ta         |                     |                    |                     | Summed          |                     |                    |                     |  |
| Mode          | Tx<br>Frequency | Avg Co          | nducted             | Peak Co         | nducted             | Avg Co             | nducted             | Peak Co            | nducted             | Avg Co          | nducted             | Peak Co            | nducted             |  |
| Wode          | (MHz)           | Max. Power (mW) | Max. Power<br>(dBm) | Max. Power (mW) | Max. Power<br>(dBm) | Max. Power<br>(mW) | Max. Power<br>(dBm) | Max. Power<br>(mW) | Max. Power<br>(dBm) | Max. Power (mW) | Max. Power<br>(dBm) | Max. Power<br>(mW) | Max. Power<br>(dBm) |  |
| 802.11g       | 2412 - 2472     | 136.144         | 21.34               | 538.270         | 27.31               | 133.968            | 21.27               | 501.187            | 27.00               | 250.035         | 23.98               | 891.251            | 29.50               |  |
| 802.11n       | 2412 - 2472     | 137.088         | 21.37               | 557.186         | 27.46               | 134.586            | 21.29               | 514.044            | 27.11               | 242.103         | 23.84               | 866.962            | 29.38               |  |
| 802.11ax (SU) | 2412 - 2467     | 135.207         | 21.31               | 552.077         | 27.42               | 140.281            | 21.47               | 517.607            | 27.14               | 244.906         | 23.89               | 891.251            | 29.50               |  |

#### **EUT Overview (Mid Data Rate)**

|               |                    | Antenna 3a      |                     |                 |                     |                 | Antenna 1a          |                 |                     |                 | CDD                 |                 |                     |  |
|---------------|--------------------|-----------------|---------------------|-----------------|---------------------|-----------------|---------------------|-----------------|---------------------|-----------------|---------------------|-----------------|---------------------|--|
|               | _                  |                 | Antei               | iliu ou         |                     |                 | Allema la           |                 |                     |                 | Summed              |                 |                     |  |
| Mode          | Tx Avg Conducted   |                 | nducted             | Peak Conducted  |                     | Avg Conducted   |                     | Peak Conducted  |                     | Avg Conducted   |                     | Peak Conducted  |                     |  |
| Wode          | Frequency<br>(MHz) | Max. Power (mW) | Max. Power<br>(dBm) |  |
| 802.11b       | 2412 - 2472        | 140.929         | 21.49               | 262.422         | 24.19               | 140.281         | 21.47               | 259.418         | 24.14               | N/A             | N/A                 | N/A             | N/A                 |  |
| 802.11g       | 2412 - 2472        | 114.815         | 20.60               | 580.764         | 27.64               | 112.980         | 20.53               | 532.108         | 27.26               | 212.324         | 23.27               | 891.251         | 29.50               |  |
| 802.11n       | 2412 - 2472        | 117.490         | 20.70               | 576.766         | 27.61               | 115.345         | 20.62               | 528.445         | 27.23               | 216.272         | 23.35               | 874.984         | 29.42               |  |
| 802.11ax (SU) | 2412 - 2467        | 109.396         | 20.39               | 574.116         | 27.59               | 102.802         | 20.12               | 527.230         | 27.22               | 215.278         | 23.33               | 872.971         | 29.41               |  |

**EUT Overview (High Data Rate)** 

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element MEASUREMENT REPORT (CERTIFICATION) |               | Approved by:<br>Technical Manager |
|------------------------------------|--|---------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:                                | EUT Type:     | Dags 2 of 420                     |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024                      | Tablet Device | Page 3 of 430                     |



### 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.

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

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | element MEASUREMENT REPORT (CERTIFICATION) |               |  |
|------------------------------------|-----------------------|--|---------------|--|
| Test Report S/N:                   | Test Dates:           | EUT Type:                                  | Dog 4 of 420  |  |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                              | Page 4 of 430 |  |



### 2.0 PRODUCT INFORMATION

### 2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Tablet Device FCC ID: BCGA2995**, **IC: 579C-A2995**. The test data contained in this report pertains only to the emissions due to the EUT's WLAN (DTS) transmitter.

**Test Device Serial No.:** NWP2NHGM9L, X7WK4R1F4K, W64VVD6Q0H, DVXJDXL1QN, H9HH4U0007A0000R51, H9HH4Z000940000CFX

# 2.2 Device Capabilities

This device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, Multi-band LTE, 5G NR (FR1), 802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII, 802.11a/ax WIFI 6E, 802.15.4, Bluetooth (1x, EDR, LE1M, LE2M, HDR4, HDR8), NB UNII (1x, HDR4, HDR8), WPT

This device supports BT Beamforming

| Ch. | Frequency (MHz) | Ch. | Frequency (MHz) |
|-----|-----------------|-----|-----------------|
| 1   | 2412            | 8   | 2447            |
| 2   | 2417            | 9   | 2452            |
| 3   | 2422            | 10  | 2457            |
| 4   | 2427            | 11  | 2462            |
| 5   | 2432            | 12  | 2467            |
| 6   | 2437            | 13* | 2472            |
| 7   | 2442            |     |                 |

Table 2-1. 802.11b/g/n/ax Frequency/Channel Operations

**Note:** 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 6.0 b) of KDB 558074 D01 v05r02 and ANSI C63.10-2020. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT (CERTIFICATION) | Approved by:<br>Technical Manager |
|------------------------------------|-----------------------|------------------------------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                          | Dogg 5 of 420                     |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                      | Page 5 of 430                     |

<sup>\*</sup>Channel 13 is disabled for DTS 802.11ax HE20.



| Measured Duty Cycles |                            |       |                |      |  |  |  |  |
|----------------------|----------------------------|-------|----------------|------|--|--|--|--|
|                      | 302.11 Mode/Band           |       | Duty Cyles [%] |      |  |  |  |  |
|                      | 802.11 Wode/Ballu          |       | Antenna 1a     | CDD  |  |  |  |  |
|                      | b                          | 100.0 | 100.0          | N/A  |  |  |  |  |
|                      | g (Low Data Rate)          | 96.1  | 96.3           | 96.2 |  |  |  |  |
|                      | g (Mid Data Rate)          | 93.4  | 93.1           | 93.3 |  |  |  |  |
|                      | g (High Data Rate)         | 91.7  | 91.5           | 91.4 |  |  |  |  |
| 2.4GHz               | n (Low Data Rate)          | 96.3  | 93.3           | 96.2 |  |  |  |  |
| 2.4002               | n (Mid Data Rate)          | 93.9  | 93.3           | 93.6 |  |  |  |  |
|                      | n (High Data Rate)         | 91.2  | 91.2           | 90.6 |  |  |  |  |
|                      | 11ax (SU) (Low Data Rate)  | 95.8  | 95.4           | 95.5 |  |  |  |  |
|                      | 11ax (SU) (Mid Data Rate)  | 93.1  | 92.6           | 92.5 |  |  |  |  |
|                      | 11ax (SU) (High Data Rate) | 87.6  | 88.1           | 88.2 |  |  |  |  |

**Table 2-2. Measured Duty Cycles** 

The device employs CDD technology. Below are the possible configurations.

| WiFi Configurations |      | SISO       |            | SDM        |            | CDD        |            |
|---------------------|------|------------|------------|------------|------------|------------|------------|
|                     |      | Antenna 3a | Antenna 1a | Antenna 3a | Antenna 1a | Antenna 3a | Antenna 1a |
| 2.4GHz              | 11b  | ✓          | ✓          | ×          | *          | *          | *          |
|                     | 11g  | ✓          | ✓          | ✓          | ✓          | ✓          | ✓          |
|                     | 11n  | ✓          | ✓          | ✓          | ✓          | ✓          | ✓          |
|                     | 11ax | ✓          | ✓          | ✓          | ✓          | ✓          | ✓          |

Table 2-3. Wi-Fi Configurations

✓= Support; × = NOT Support SISO = Single Input Single Output

**SDM** = Spatial Diversity Multiplexing – CDD function

**CDD** = Cyclic Delay Diversity - 2Tx Function

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

| 802.11b | 802.11g | 1400      |     | 0       | 802      | .11n     | OF       | OM (802.1 | 1ax)     |
|---------|---------|-----------|-----|---------|----------|----------|----------|-----------|----------|
| 20MHz   |         | MCS Index |     | Spatial | 20MHz    |          | 20MHz    |           |          |
| 201     | VIHZ    | HT        | VHT | Stream  | 0.8µs GI | 0.4µs GI | 0.8µs GI | 1.6µs GI  | 3.2µs GI |
| 1       | 6       | 0         | 0   | 1       | 6.5      | 7.2      | 8.6      | 8.1       | 7.3      |
| 2       | 9       | 1         | 1   | 1       | 13       | 14.4     | 17.2     | 16.3      | 14.6     |
| 5.5     | 12      | 2         | 2   | 1       | 19.5     | 21.7     | 25.8     | 24.4      | 21.9     |
| 11      | 18      | 3         | 3   | 1       | 26       | 28.9     | 34.4     | 32.5      | 29.3     |
| -       | 24      | 4         | 4   | 1       | 39       | 43.3     | 51.6     | 48.8      | 43.9     |
| -       | 36      | 5         | 5   | 1       | 52       | 57.8     | 68.8     | 65        | 58.5     |
| -       | 48      | 6         | 6   | 1       | 58.5     | 65       | 77.4     | 73.1      | 65.8     |
| -       | 54      | 7         | 7   | 1       | 65       | 72.2     | 86       | 81.3      | 73.1     |
| -       | -       | -         | 8   | 1       | 78       | 86.7     | 103.2    | 97.5      | 87.8     |
| -       | -       | -         | 9   | 1       | -        |          | 114.7    | 108.3     | 97.5     |
| -       | 6       | 8         | 0   | 2       | 13       | 14.4     | 17.2     | 16.3      | 14.6     |
| -       | 9       | 9         | 1   | 2       | 26       | 28.9     | 34.4     | 32.5      | 29.3     |
| -       | 12      | 10        | 2   | 2       | 39       | 43.3     | 51.6     | 48.8      | 43.9     |
| -       | 18      | 11        | 3   | 2       | 52       | 57.8     | 68.8     | 65        | 58.5     |
| -       | 24      | 12        | 4   | 2       | 78       | 86.7     | 103.2    | 97.5      | 87.8     |
| -       | 36      | 13        | 5   | 2       | 104      | 115.6    | 137.6    | 130       | 117      |
| -       | 48      | 14        | 6   | 2       | 117      | 130      | 154.9    | 146.3     | 131.6    |
| -       | 54      | 15        | 7   | 2       | 130      | 144.4    | 172.1    | 162.5     | 146.3    |
| -       | -       | -         | 8   | 2       | 156      | 173.3    | 206.5    | 195       | 175.5    |
| -       | -       | -         | 9   | 2       | -        | -        | 229.4    | 216.7     | 195      |

**Table 2-4. Supported Data Rates** 

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element MEASUREMENT REPORT (CERTIFICATION) |               | Approved by: Technical Manager |
|------------------------------------|--|---------------|--------------------------------|
| Test Report S/N:                   | Test Dates:                                | EUT Type:     | Dogo 6 of 420                  |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024                      | Tablet Device | Page 6 of 430                  |



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

|         | Simultaneous | Bluetooth<br>2.4GHz            | Thread   | NB UNII        | WLAN               | WIFI 5GHz           | WIFI 6GHz   |    | LTE / FR1 NR |                    |
|---------|--------------|--------------------------------|----------|----------------|--------------------|---------------------|-------------|----|--------------|--------------------|
| Antenna | Tx<br>Config | BDR, EDR,<br>HDR4/8,<br>LE1/2M | 802.15.4 | BDR,<br>HDR4/8 | 802.11<br>b/g/n/ax | 802.11<br>a/n/ac/ax | 802.11 a/ax | LB | МВ/НВ        | Ultra High<br>Band |
| 1a      | Config 1     | ✓                              | ×        | ×              | ×                  | *                   | ×           | ×  | ×            | ✓                  |
| 1a      | Config 2     | ×                              | ×        | ×              | ✓                  | ×                   | ×           | ×  | ×            | ✓                  |
| 1a      | Config 3     | *                              | ✓        | ×              | ×                  | *                   | ×           | *  | ×            | ✓                  |
| 1b      | Config 4     | *                              | *        | <b>✓</b>       | ×                  | *                   | ×           | *  | ✓            | ×                  |
| 1b      | Config 5     | *                              | *        | ×              | ×                  | ✓                   | ×           | *  | ✓            | ×                  |
| 1b      | Config 6     | *                              | *        | *              | *                  | *                   | ✓           | *  | ✓            | ×                  |
| 3a      | Config 7     | *                              | *        | *              | ✓                  | *                   | ×           | *  | ×            | ✓                  |
| 3a      | Config 8     | <b>✓</b>                       | *        | *              | *                  | *                   | ×           | *  | *            | ✓                  |
| 3a      | Config 9     | *                              | ✓        | *              | ×                  | *                   | ×           | *  | ×            | ✓                  |
| 3b      | Config 10    | ×                              | ×        | <b>✓</b>       | ×                  | ×                   | ×           | ×  | ✓            | ×                  |
| 3b      | Config 11    | *                              | *        | *              | ×                  | ✓                   | ×           | *  | ✓            | ×                  |
| 3b      | Config 12    | *                              | *        | *              | ×                  | *                   | ✓           | *  | ✓            | ×                  |
| 4       | Config 13    | ✓                              | ×        | ×              | ×                  | ×                   | ×           | ✓  | ×            | ×                  |
| 4       | Config 14    | <b>✓</b>                       | *        | *              | *                  | *                   | ×           | *  | ✓            | ×                  |
| 4       | Config 15    | <b>✓</b>                       | *        | *              | ×                  | ×                   | ×           | *  | ×            | ✓                  |
| 4       | Config 16    | *                              | ✓        | ×              | ×                  | *                   | ×           | ✓  | ×            | ×                  |
| 4       | Config 17    | *                              | ✓        | *              | ×                  | *                   | ×           | *  | ✓            | ×                  |
| 4       | Config 18    | ×                              | ✓        | ×              | ×                  | *                   | ×           | *  | ×            | ✓                  |

**Table 2-5. 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 14 and reported in RF Bluetooth UNII, RF Part 27b and RSS 199 test reports.

Specific 2.4GHz Wi-Fi antenna that can only transmit simultaneously with 2.4GHz Bluetooth antenna is listed in the SAR test report. For BT (2.4GHz) in both connected and disconnected modes, and Wi-Fi (2.4GHz) - Wi-Fi max power will not exceed minimum of (13.5dBm, SAR max cap, Reg max cap) power. Bluetooth can simultaneously transmit with IEEE 802.11a/n/ac/ax 5/6 GHz on separate antenna.

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element MEASUREMENT REPORT (CERTIFICATION) |               | Approved by:<br>Technical Manager |
|------------------------------------|--|---------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:                                | EUT Type:     | Dog 7 of 420                      |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024                      | Tablet Device | Page 7 of 430                     |



# 2.3 Antenna Description

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

| Fraguency [CH-1 | Antenna Gain (dBi) |            |  |
|-----------------|--------------------|------------|--|
| Frequency [GHz] | Antenna 3a         | Antenna 1a |  |
| 2.4             | -0.3               | 0.9        |  |

Table 2-6. Highest Antenna Gain

# 2.4 Test Support Equipment

| 1 | Apple MacBook Pro | Model: | A2141    | S/N: | C02H604EQ05D      |
|---|-------------------|--------|----------|------|-------------------|
|   | w/AC/DC Adapter   | Model: | A2166    | S/N: | C4H042705ZNPM0WA6 |
|   |                   |        |          |      |                   |
| 2 | Apple USB-C Cable | Model: | Spartan  | S/N: | GXK1336018XKTR024 |
|   |                   |        |          |      |                   |
| 3 | USB-C Cable       | Model: | A246C    | S/N: | DWH80115BK826GV19 |
|   | w/ AC Adapter     | Model: | A2305    | S/N: | C4H95160004PF4F4V |
|   |                   |        |          |      |                   |
| 4 | Apple Pencil      | Model: | A2538    | S/N: | KJ26TCFXJW        |
|   |                   |        |          |      |                   |
| 5 | DC Power Supply   | Model: | KPS3010D | S/N: | N/A               |

**Table 2-7. Test Support Equipment List** 

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | element MEASUREMENT REPORT (CERTIFICATION) |               |
|------------------------------------|-----------------------|--|---------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                                  | Dogg 0 of 420 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                              | Page 8 of 430 |



### 2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.10-2020 and KDB 558074 D01 v05r02. ANSI C63.10-2020 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing. See Sections 3.2 for AC line conducted emissions test setups, Section 3.3 for radiated emissions test setups, and, 7.2, 7.3, 7.4, 7.5, and 7.6 for antenna port conducted emissions test setups.

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

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

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

For AC line conducted and radiated test below 1GHz, following configuration were investigated and the worst case has been reported.

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

802.11n CDD mode test data provided in this report covers 802.11n SDM. 802.11ax-SU HE20 2TX CDD mode test data provided in this report covers 802.11ax-SU HE20 2TX SDM.

The data rates have been classified into three different groups; low data rate, middle data rate, and high data rate. All three groups of data rate have been investigated and only the worst case data rate per group is reported. The worst case data rate for each group per mode are as follows:

- 802.11b
  - o 11Mbps
- 802.11g
  - Low Data Rate: 12Mbps
     Mid Data Rate 24Mbps
  - High Data Rate: 54Mbps
- 802.11n
  - Low Data Rate: MCS2/MCS10 (SISO/CDD)
     Mid Data Rate: MCS4/MCS12 (SISO/CDD)
     High Data Rate: MCS7/MCS15 (SISO/CDD)
- 802.11ax(SU)
  - Low Data Rate: MCS2
     Mid Data Rate: MCS4
     High Data Rate: MCS9

For 802.11ax-RU test results, see separate WLAN (OFDMA) report, 1C2405200018-15.BCG

### 2.6 Software and Firmware

The test was conducted with firmware version 22A312 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: BCGA2995<br>IC: 579C-A2995 | element               | Approved by:<br>Technical Manager |               |
|------------------------------------|-----------------------|-----------------------------------|---------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                         | Dog 0 of 420  |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                     | Page 9 of 430 |



# 3.0 DESCRIPTION OF TESTS

### 3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2020) and the guidance provided in KDB 558074 D01 v05r02 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,  $50\Omega/50\mu$ H 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 groundplane. Power cables for support equipment were routed down to the second LISN while ensuring that the cables were not draped over the second LISN.

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

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

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element MEASUREMENT REPORT (CERTIFICATION) |               | Approved by:<br>Technical Manager |
|------------------------------------|--|---------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:                                | EUT Type:     | Dags 40 of 420                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024                      | Tablet Device | Page 10 of 430                    |



### 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 rotated about its vertical axis 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: BCGA2995<br>IC: 579C-A2995 | element MEASUREMENT REPORT (CERTIFICATION) |               | Approved by: Technical Manager |
|------------------------------------|--|---------------|--------------------------------|
| Test Report S/N:                   | Test Dates:                                | EUT Type:     | Dogg 11 of 120                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024                      | Tablet Device | Page 11 of 430                 |



# 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 connections to an external antenna.

#### **Conclusion:**

The EUT unit complies with the requirement of §15.203.

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element MEASUREMENT REPORT (CERTIFICATION) |               | Approved by:<br>Technical Manager |
|------------------------------------|--|---------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:                                | EUT Type:     | Dogg 10 of 100                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024                      | Tablet Device | Page 12 of 430                    |



# 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 (±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: BCGA2995<br>IC: 579C-A2995 | element               | element MEASUREMENT REPORT (CERTIFICATION) |                |
|------------------------------------|-----------------------|--|----------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                                  | Dags 12 of 120 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                              | Page 13 of 430 |



# 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 to the requirements of ANSI C63.5-2017.

| Manufacturer           | Model                    | Description                              | Cal Date   | Cal Interval | Cal Due    | Serial Number |
|------------------------|--------------------------|--|------------|--------------|------------|---------------|
| Agilent Technologies   | N9030A                   | 3Hz-26.5GHz PXA Signal Analyzer          | 10/18/2023 | Annual       | 10/18/2024 | MY55330128    |
| 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                       | 11/8/2023  | Annual       | 11/8/2024  | 1027293       |
| ATM                    | 180-442A-KF              | 20dB Nominal Gain Horn Antenna           | 3/14/2024  | Annual       | 3/14/2025  | T058701-01    |
| ETS-Lindgren           | 3117                     | Double Ridged Guide Antenna (1-18 GHz)   | 4/9/2024   | Annual       | 4/9/2025   | 00218555      |
| Fairview Microwave/MCL | FMCA1975-36/BW-K10-2W44+ | 30MHz-40GHz Conducted Cable/Attenuator * | 6/10/2024  | Annual       | 6/10/2025  | -             |
| Keysight Technology    | N9040B                   | UXA Signal Analyzer                      | 5/28/2024  | Annual       | 5/28/2025  | MY57212015    |
| Rohde & Schwarz        | TS-PR18                  | Pre-Amplifier (1GHz - 18GHz)             | 8/15/2023  | Annual       | 8/15/2024  | 101639        |
| Rohde & Schwarz        | TS-PR18                  | Pre-Amplifier (1GHz - 18GHz)             | 8/14/2024  | Annual       | 8/15/2025  | 101648        |
| Rohde & Schwarz        | FSV40                    | Signal Analyzer (10Hz-40GHz)             | 5/29/2024  | Annual       | 5/29/2025  | 101619        |
| Rohde & Schwarz        | ESW44                    | EMI Test Receiver                        | 5/1/2024   | Annual       | 5/1/2025   | 101867        |
| Rohde & Schwarz        | TS-PR8                   | Pre-Amplifier (30MHz - 8GHz)             | 7/3/2024   | Annual       | 7/3/2025   | 102356        |
| Rohde & Schwarz        | TS-PR1840                | Pre-Amplifier (18GHz - 40GHz)            | 6/10/2024  | Annual       | 6/10/2025  | 100057        |
| Rohde & Schwarz        | HFH2-Z2                  | Loop Antenna                             | 6/21/2024  | Annual       | 6/21/2025  | 100519        |
| Rohde & Schwarz        | ENV216                   | Two-Line V-Network                       | 4/24/2024  | Annual       | 4/24/2025  | 101364        |
| Schwarzbeck            | VULB 9162                | Bilog Antenna (30MHz - 6GHz)             | 4/29/2024  | Annual       | 4/29/2025  | 00304         |

**Table 6-1. Test Equipment List** 

### Note:

- 1. 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.
- 2. \* denotes passive equipment that have been internally verified/calibrated.

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | element MEASUREMENT REPORT (CERTIFICATION) |                |
|------------------------------------|-----------------------|--|----------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                                  | Dags 14 of 120 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                              | Page 14 of 430 |



### 7.0 TEST RESULTS

### 7.1 Summary

Company Name: Apple Inc.

FCC ID: BCGA2995

IC: <u>579C-A2995</u>

FCC Classification: <u>Digital Transmission System (DTS)</u>

| FCC Part<br>Section(s) | RSS Section(s) | Test Description   | Test Limit  | Test<br>Condition    | Test<br>Result | Reference            |
|------------------------|----------------|--|---|----------------------|----------------|----------------------|
| 15.247(a)(2)           | RSS-247 [5.2]  | 6dB Bandwidth  | > 500kHz  |                      | PASS           | Section 7.2          |
| 2.1049                 | RSS-Gen [6.7]  | Occupied Bandwidth   | N/A   |                      | N/A            | Section 7.2          |
| 15.247(b)(3)           | RSS-247 [5.4]  | Transmitter Output Power   | < 1 Watt  | CONDUCTED            | PASS           | Sections 7.3         |
| 15.247(e)              | RSS-247 [5.2]  | Transmitter Power<br>Spectral Density  | < 8dBm / 3kHz Band  |                      | PASS           | Section 7.4          |
| 15.247(d)              | RSS-247 [5.5]  | Band Edge /<br>Out-of-Band Emissions   | ≥ 20dBc   |                      | PASS           | Sections 7.5,<br>7.6 |
| 15.205<br>15.209       | RSS-Gen [8.9]  | General Field Strength<br>Limits (Restricted Bands<br>and Radiated Emission<br>Limits) | Emissions in restricted<br>bands must meet the<br>radiated limits detailed in<br>15.209 (RSS-Gen [8.9]) | RADIATED             | PASS           | Sections 7.7,<br>7.8 |
| 15.207                 | RSS-Gen [8.8]  | AC Conducted Emissions<br>150kHz – 30MHz   | < FCC 15.207 limits<br>(RSS-Gen[8.8])   | AC LINE<br>CONDUCTED | PASS           | Section 7.9          |

Table 7-1. Summary of Test Results

#### Notes:

- 1. All modes of operation and data rates were investigated. 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.
- 3. All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables and attenuators.
- 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 Software," version 1.1.0.
- 5. For radiated band edge, 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 3.0.0.

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT (CERTIFICATION) | Approved by:<br>Technical Manager |
|------------------------------------|-----------------------|------------------------------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                          | Dogg 45 of 420                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                      | Page 15 of 430                    |



# 7.2 6dB BW and 99% OBW Measurement §15.247(a.2); §2.1049; RSS-247 [5.2]; RSS-Gen [6.7]

### **Test Overview and Limit**

The bandwidth at 6dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the transmitter antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated and the worst case configuration results are reported in this section.

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible 6dB bandwidth is 500 kHz.

#### **Test Procedure Used**

ANSI C63.10-2020 – Subclause 11.8.2 Option 2 KDB 558074 D01 v05r02 – Section 8.2 RSS-Gen [6.7]

### **Test Settings**

- 1. The signal analyzer's automatic bandwidth measurement capability of the spectrum analyzer was used to perform the 99% occupied bandwidth and 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 = 100kHz
- 3. VBW ≥ 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize
- If necessary, step 2 7 were repeated after changing the RBW such that it would be within 1 -5% of the
   99% occupied bandwidth observed in Step 7

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogg 46 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 16 of 430                 |



### **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**

The data rates have been classified into three different groups: low data rate, middle data rate, and high data rate. All three data rate groups have been investigated and only the worst case data rate per groups is reported.

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | element MEASUREMENT REPORT (CERTIFICATION) |                |
|------------------------------------|-----------------------|--|----------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                                  | Dags 47 of 420 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                              | Page 17 of 430 |



# 7.2.1 Antenna 3a 6 dB BW and 99% OBW Measurements

| Frequency<br>[MHz] | Channel | 802.11<br>MODE | Data Rate [Mbps] | Measured 99%<br>Occupied<br>Bandwidth [MHz] | Measured 6dB<br>Bandwidth [MHz] | Minimum 6dB<br>Bandwidth<br>[MHz] | Pass/Fail |
|--------------------|---------|----------------|------------------|---|---------------------------------|-----------------------------------|-----------|
| 2412               | 1       | g              | 12               | 16.58                                       | 16.32                           | 0.50                              | Pass      |
| 2437               | 6       | g              | 12               | 16.47                                       | 16.44                           | 0.50                              | Pass      |
| 2462               | 11      | g              | 12               | 16.62                                       | 16.39                           | 0.50                              | Pass      |
| 2412               | 1       | n              | 19.5/21.7 (MCS2) | 17.72                                       | 17.30                           | 0.50                              | Pass      |
| 2437               | 6       | n              | 19.5/21.7 (MCS2) | 17.67                                       | 17.65                           | 0.50                              | Pass      |
| 2462               | 11      | n              | 19.5/21.7 (MCS2) | 17.72                                       | 17.32                           | 0.50                              | Pass      |
| 2412               | 1       | ax (SU)        | 24/25.8 (MCS2)   | 18.91                                       | 18.77                           | 0.50                              | Pass      |
| 2437               | 6       | ax (SU)        | 24/25.8 (MCS2)   | 18.92                                       | 19.06                           | 0.50                              | Pass      |
| 2462               | 11      | ax (SU)        | 24/25.8 (MCS2)   | 18.94                                       | 18.91                           | 0.50                              | Pass      |

Table 7-2. Conducted Bandwidth Measurements Antenna 3a (Low Data Rate)

| Frequency<br>[MHz] | Channel | 802.11<br>MODE | Data Rate [Mbps] | Measured 99%<br>Occupied<br>Bandwidth [MHz] | Measured 6dB<br>Bandwidth [MHz] | Minimum 6dB<br>Bandwidth<br>[MHz] | Pass/Fail |
|--------------------|---------|----------------|------------------|---|---------------------------------|-----------------------------------|-----------|
| 2412               | 1       | g              | 24               | 16.47                                       | 16.52                           | 0.50                              | Pass      |
| 2437               | 6       | g              | 24               | 16.46                                       | 16.52                           | 0.50                              | Pass      |
| 2462               | 11      | g              | 24               | 16.45                                       | 16.51                           | 0.50                              | Pass      |
| 2412               | 1       | n              | 39/43.3 (MCS4)   | 17.66                                       | 17.72                           | 0.50                              | Pass      |
| 2437               | 6       | n              | 39/43.3 (MCS4)   | 17.67                                       | 17.73                           | 0.50                              | Pass      |
| 2462               | 11      | n              | 39/43.3 (MCS4)   | 17.66                                       | 17.74                           | 0.50                              | Pass      |
| 2412               | 1       | ax (SU)        | 49/51.6 (MCS4)   | 18.88                                       | 19.05                           | 0.50                              | Pass      |
| 2437               | 6       | ax (SU)        | 49/51.6 (MCS4)   | 18.95                                       | 19.11                           | 0.50                              | Pass      |
| 2462               | 11      | ax (SU)        | 49/51.6 (MCS4)   | 18.91                                       | 19.06                           | 0.50                              | Pass      |

Table 7-3. Conducted Bandwidth Measurements Antenna 3a (Mid Data Rate)

| 2412 | 1  | b       | 11             | 12.76 | 8.50  | 0.50 | Pass |
|------|----|---------|----------------|-------|-------|------|------|
| 2437 | 6  | b       | 11             | 12.86 | 9.08  | 0.50 | Pass |
| 2462 | 11 | b       | 11             | 12.84 | 9.06  | 0.50 | Pass |
| 2412 | 1  | g       | 54             | 16.47 | 16.54 | 0.50 | Pass |
| 2437 | 6  | g       | 54             | 16.51 | 16.57 | 0.50 | Pass |
| 2462 | 11 | g       | 54             | 16.48 | 16.53 | 0.50 | Pass |
| 2412 | 1  | n       | 65/72.2 (MCS7) | 17.66 | 17.74 | 0.50 | Pass |
| 2437 | 6  | n       | 65/72.2 (MCS7) | 17.70 | 17.78 | 0.50 | Pass |
| 2462 | 11 | n       | 65/72.2 (MCS7) | 17.69 | 17.77 | 0.50 | Pass |
| 2412 | 1  | ax (SU) | 81/86 (MCS9)   | 18.95 | 19.09 | 0.50 | Pass |
| 2437 | 6  | ax (SU) | 81/86 (MCS9)   | 18.98 | 19.11 | 0.50 | Pass |
| 2462 | 11 | ax (SU) | 81/86 (MCS9)   | 18.95 | 19.11 | 0.50 | Pass |

Table 7-4. Conducted Bandwidth Measurements Antenna 3a (High Data Rate)

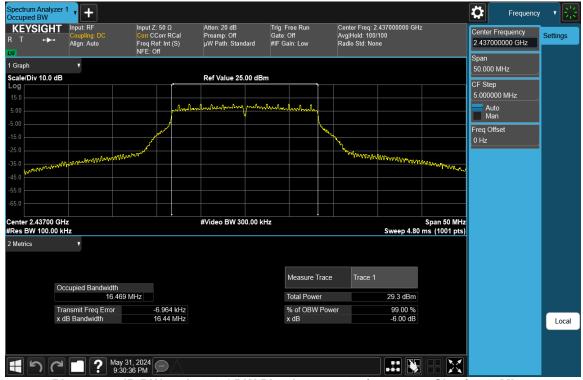
| FCC ID: BCGA2995<br>IC: 579C-A2995 | element MEASUREMENT REPORT (CERTIFICATION) |               | Approved by:<br>Technical Manager |
|------------------------------------|--|---------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:                                | EUT Type:     | Dags 40 of 420                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024                      | Tablet Device | Page 18 of 430                    |



#### Low Rate



Plot 7-1. 6 dB BW and 99% OBW Plot Antenna 3a (802.11g - Ch. 1) - 12Mbps



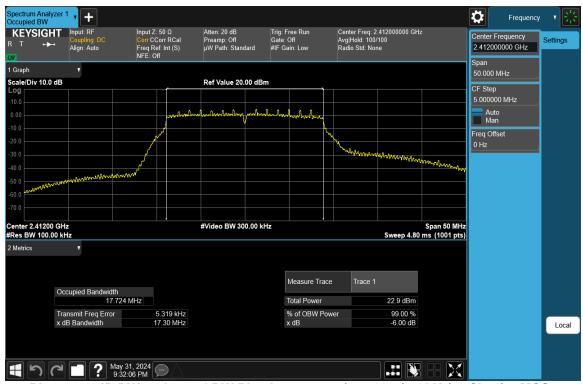
Plot 7-2. 6 dB BW and 99% OBW Plot Antenna 3a (802.11g - Ch. 6) - 12Mbps

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element MEASUREMENT REPORT (CERTIFICATION) |               | Approved by: Technical Manager |
|------------------------------------|--|---------------|--------------------------------|
| Test Report S/N:                   | Test Dates:                                | EUT Type:     | Dags 10 of 120                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024                      | Tablet Device | Page 19 of 430                 |





Plot 7-3. 6 dB BW and 99% OBW Plot Antenna 3a (802.11g - Ch. 11) - 12Mbps



Plot 7-4. 6 dB BW and 99% OBW Plot Antenna 3a (802.11n (2.4GHz) - Ch. 1) - MCS2

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT (CERTIFICATION) | Approved by:<br>Technical Manager |
|------------------------------------|-----------------------|------------------------------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                          | Dags 20 of 420                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                      | Page 20 of 430                    |





Plot 7-5. 6 dB BW and 99% OBW Plot Antenna 3a (802.11n (2.4GHz) - Ch. 6) - MCS2



Plot 7-6. 6 dB BW and 99% OBW Plot Antenna 3a (802.11n (2.4GHz) - Ch. 11) - MCS2

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogo 24 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 21 of 430                 |





Plot 7-7. 6 dB BW and 99% OBW Plot Antenna 3a (802.11ax (SU - 2.4GHz) - Ch. 1) - MCS2



Plot 7-8. 6 dB BW and 99% OBW Plot Antenna 3a (802.11ax (SU - 2.4GHz) - Ch. 6) - MCS2

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogg 22 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 22 of 430                 |





Plot 7-9. 6 dB BW and 99% OBW Plot Antenna 3a (802.11ax (SU - 2.4GHz) - Ch. 11) - MCS2

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT (CERTIFICATION) | Approved by:<br>Technical Manager |
|------------------------------------|-----------------------|------------------------------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                          | Dags 22 of 420                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                      | Page 23 of 430                    |



#### **Mid Rate**



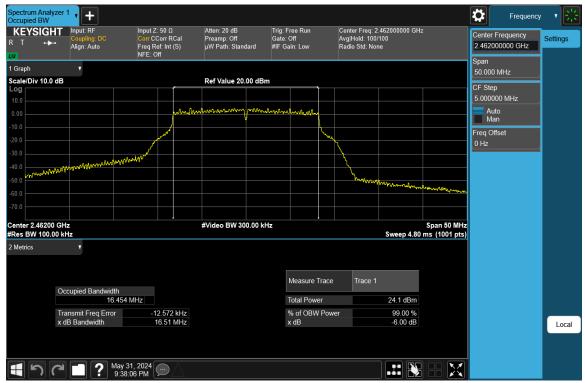
Plot 7-10. 6 dB BW and 99% OBW Plot Antenna 3a (802.11g - Ch. 1) - 24Mbps



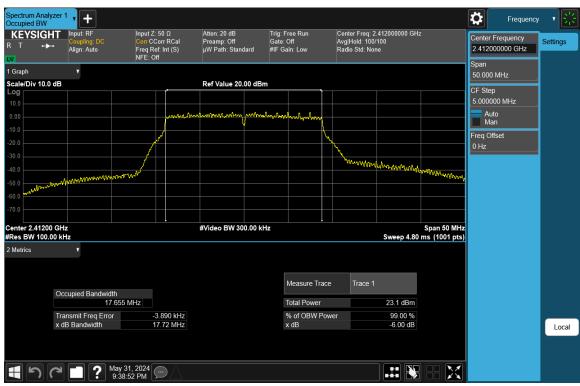
Plot 7-11. 6 dB BW and 99% OBW Plot Antenna 3a (802.11g - Ch. 6) - 24Mbps

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element MEASUREMENT REPORT (CERTIFICATION) |               | Approved by: Technical Manager |
|------------------------------------|--|---------------|--------------------------------|
| Test Report S/N:                   | Test Dates:                                | EUT Type:     | Dags 24 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024                      | Tablet Device | Page 24 of 430                 |





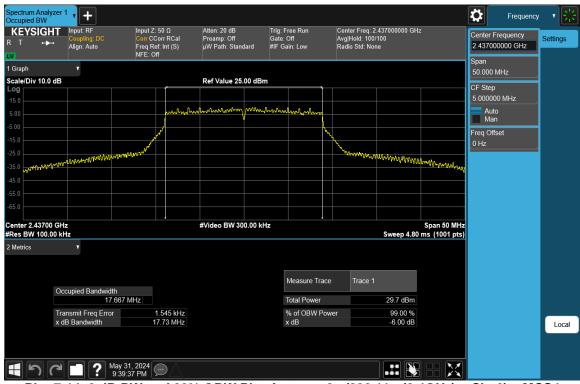
Plot 7-12. 6 dB BW and 99% OBW Plot Antenna 3a (802.11g - Ch. 11) - 24Mbps



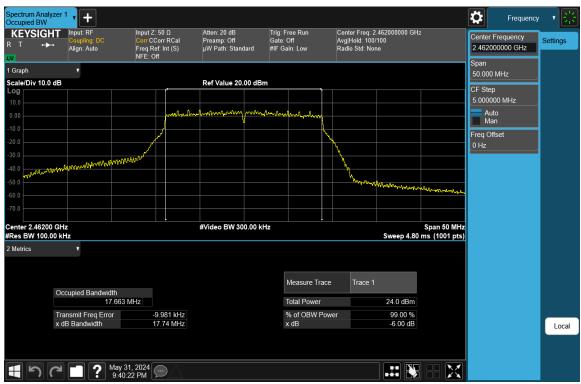
Plot 7-13. 6 dB BW and 99% OBW Plot Antenna 3a (802.11n (2.4GHz) - Ch. 1) - MCS4

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogo 25 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 25 of 430                 |





Plot 7-14. 6 dB BW and 99% OBW Plot Antenna 3a (802.11n (2.4GHz) - Ch. 6) - MCS4



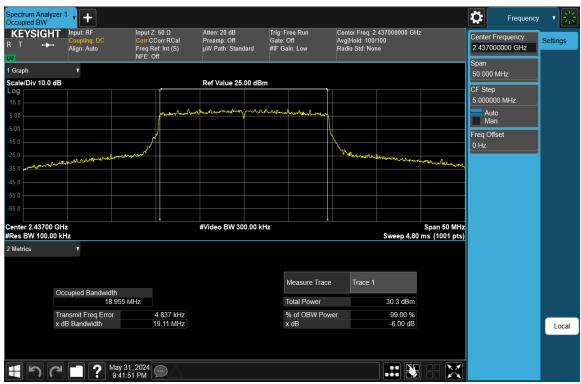
Plot 7-15. 6 dB BW and 99% OBW Plot Antenna 3a (802.11n (2.4GHz) - Ch. 11) - MCS4

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogo 26 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 26 of 430                 |





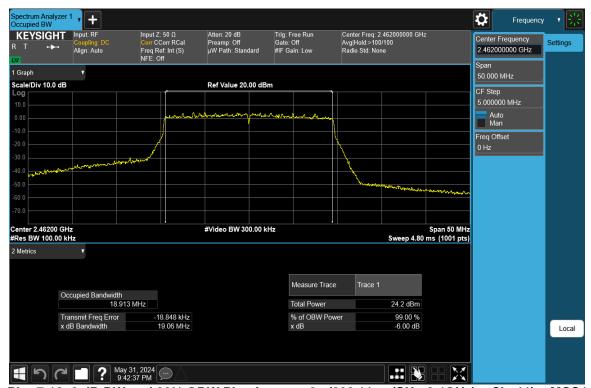
Plot 7-16. 6 dB BW and 99% OBW Plot Antenna 3a (802.11ax (SU - 2.4GHz) - Ch. 1) - MCS4



Plot 7-17. 6 dB BW and 99% OBW Plot Antenna 3a (802.11ax (SU - 2.4GHz) - Ch. 6) - MCS4

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogo 27 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 27 of 430                 |





Plot 7-18. 6 dB BW and 99% OBW Plot Antenna 3a (802.11ax (SU - 2.4GHz) - Ch. 11) - MCS4

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT (CERTIFICATION) | Approved by:<br>Technical Manager |
|------------------------------------|-----------------------|------------------------------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                          | Dags 20 of 420                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                      | Page 28 of 430                    |



### **High Rate**



Plot 7-19. 6 dB BW and 99% OBW Plot Antenna 3a (802.11b - Ch. 1) - 11Mbps



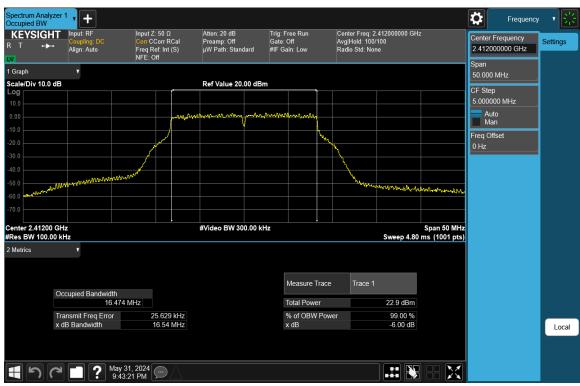
Plot 7-20. 6 dB BW and 99% OBW Plot Antenna 3a (802.11b - Ch. 6) - 11Mbps

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element MEASUREMENT REPORT (CERTIFICATION) |               | Approved by: Technical Manager |
|------------------------------------|--|---------------|--------------------------------|
| Test Report S/N:                   | Test Dates:                                | EUT Type:     | Dags 20 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024                      | Tablet Device | Page 29 of 430                 |





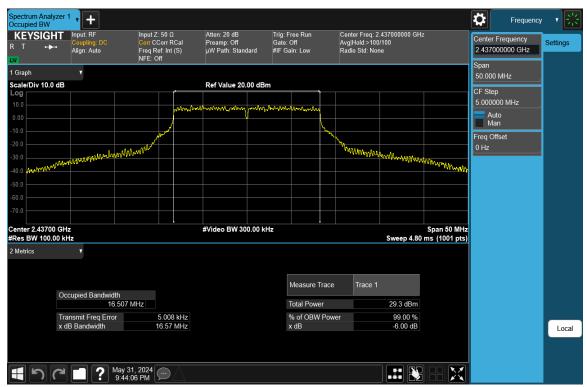
Plot 7-21. 6 dB BW and 99% OBW Plot Antenna 3a (802.11b - Ch. 11) - 11Mbps



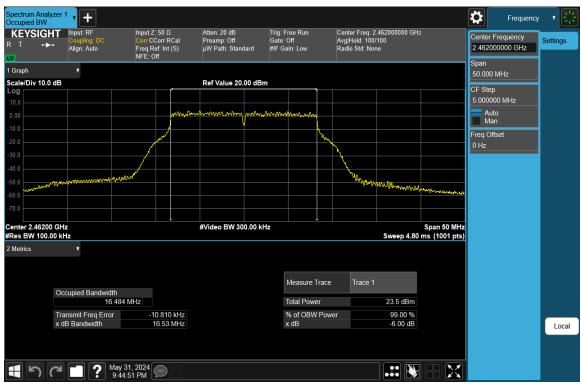
Plot 7-22. 6 dB BW and 99% OBW Plot Antenna 3a (802.11g - Ch. 1) - 54Mbps

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT (CERTIFICATION) | Approved by:<br>Technical Manager |
|------------------------------------|-----------------------|------------------------------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                          | Dags 20 of 420                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                      | Page 30 of 430                    |





Plot 7-23. 6 dB BW and 99% OBW Plot Antenna 3a (802.11g - Ch. 6) - 54Mbps



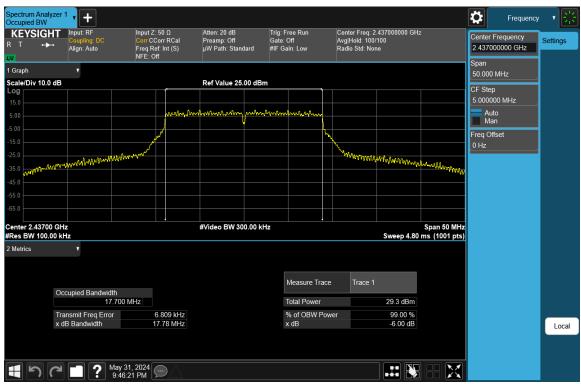
Plot 7-24. 6 dB BW and 99% OBW Plot Antenna 3a (802.11g - Ch. 11) - 54Mbps

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | element MEASUREMENT REPORT (CERTIFICATION) |                |
|------------------------------------|-----------------------|--|----------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                                  | Dogo 24 of 420 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                              | Page 31 of 430 |





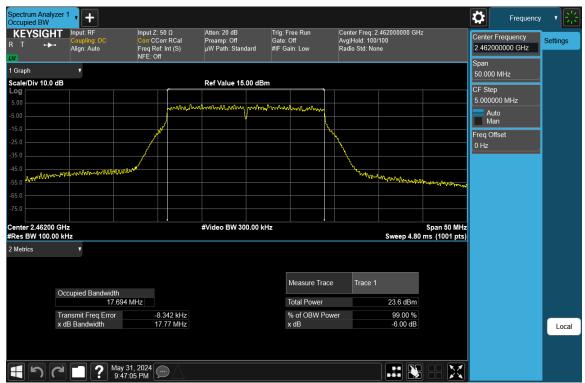
Plot 7-25. 6 dB BW and 99% OBW Plot Antenna 3a (802.11n (2.4GHz) - Ch. 1) - MCS7



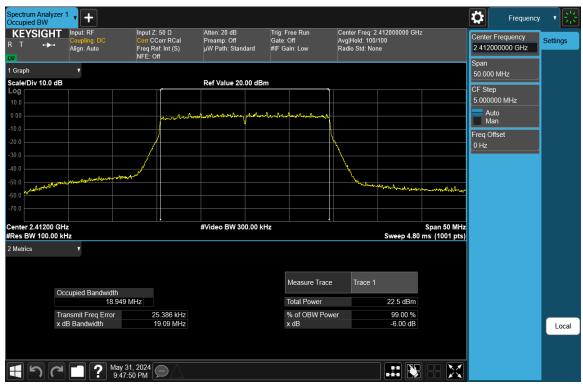
Plot 7-26. 6 dB BW and 99% OBW Plot Antenna 3a (802.11n (2.4GHz) - Ch. 6) - MCS7

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogg 22 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 32 of 430                 |





Plot 7-27. 6 dB BW and 99% OBW Plot Antenna 3a (802.11n (2.4GHz) - Ch. 11) - MCS7



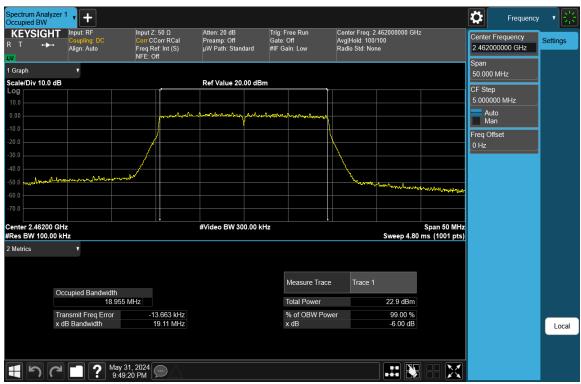
Plot 7-28. 6 dB BW and 99% OBW Plot Antenna 3a (802.11ax (SU - 2.4GHz) - Ch. 1) - MCS9

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | ement MEASUREMENT REPORT (CERTIFICATION) |                |
|------------------------------------|-----------------------|--|----------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                                | Dogo 22 of 420 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                            | Page 33 of 430 |





Plot 7-29. 6 dB BW and 99% OBW Plot Antenna 3a (802.11ax (SU - 2.4GHz) - Ch. 6) - MCS9



Plot 7-30. 6 dB BW and 99% OBW Plot Antenna 3a (802.11ax (SU - 2.4GHz) - Ch. 11) - MCS9

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dags 24 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 34 of 430                 |



# 7.2.2 Antenna 1a 6 dB BW and 99% OBW Measurements

| Frequency<br>[MHz] | Channel | 802.11<br>MODE | Data Rate [Mbps] | Measured 99%<br>Occupied Bandwidth<br>[MHz] | Measured 6dB<br>Bandwidth [MHz] | Minimum 6dB<br>Bandwidth<br>[MHz] | Pass/Fail |
|--------------------|---------|----------------|------------------|---|---------------------------------|-----------------------------------|-----------|
| 2412               | 1       | g              | 12               | 16.53                                       | 16.09                           | 0.50                              | Pass      |
| 2437               | 6       | g              | 12               | 16.48                                       | 16.14                           | 0.50                              | Pass      |
| 2462               | 11      | g              | 12               | 16.60                                       | 16.33                           | 0.50                              | Pass      |
| 2412               | 1       | n              | 19.5/21.7 (MCS2) | 17.69                                       | 16.94                           | 0.50                              | Pass      |
| 2437               | 6       | n              | 19.5/21.7 (MCS2) | 17.69                                       | 17.31                           | 0.50                              | Pass      |
| 2462               | 11      | n              | 19.5/21.7 (MCS2) | 17.71                                       | 17.23                           | 0.50                              | Pass      |
| 2412               | 1       | ax (SU)        | 24/25.8 (MCS2)   | 18.88                                       | 17.95                           | 0.50                              | Pass      |
| 2437               | 6       | ax (SU)        | 24/25.8 (MCS2)   | 18.93                                       | 19.01                           | 0.50                              | Pass      |
| 2462               | 11      | ax (SU)        | 24/25.8 (MCS2)   | 18.93                                       | 18.91                           | 0.50                              | Pass      |

Table 7-5. Conducted Bandwidth Measurements Antenna 1a (Low Data Rate)

| Frequency<br>[MHz] | Channel | 802.11<br>MODE | Data Rate [Mbps] | Measured 99%<br>Occupied Bandwidth<br>[MHz] | Measured 6dB<br>Bandwidth [MHz] | Minimum 6dB<br>Bandwidth<br>[MHz] | Pass/Fail |
|--------------------|---------|----------------|------------------|---|---------------------------------|-----------------------------------|-----------|
| 2412               | 1       | g              | 24               | 16.44                                       | 16.50                           | 0.50                              | Pass      |
| 2437               | 6       | g              | 24               | 16.48                                       | 16.50                           | 0.50                              | Pass      |
| 2462               | 11      | g              | 24               | 16.45                                       | 16.50                           | 0.50                              | Pass      |
| 2412               | 1       | n              | 39/43.3 (MCS4)   | 17.64                                       | 17.70                           | 0.50                              | Pass      |
| 2437               | 6       | n              | 39/43.3 (MCS4)   | 17.67                                       | 17.70                           | 0.50                              | Pass      |
| 2462               | 11      | n              | 39/43.3 (MCS4)   | 17.66                                       | 17.72                           | 0.50                              | Pass      |
| 2412               | 1       | ax (SU)        | 49/51.6 (MCS4)   | 18.88                                       | 19.04                           | 0.50                              | Pass      |
| 2437               | 6       | ax (SU)        | 49/51.6 (MCS4)   | 18.95                                       | 19.06                           | 0.50                              | Pass      |
| 2462               | 11      | ax (SU)        | 49/51.6 (MCS4)   | 18.93                                       | 19.06                           | 0.50                              | Pass      |

Table 7-6. Conducted Bandwidth Measurements Antenna 1a (Mid Data Rate)

| Frequency<br>[MHz] | Channel | 802.11<br>MODE | Data Rate [Mbps] | Measured 99% Occupied Bandwidth [MHz] | Measured 6dB<br>Bandwidth [MHz] | Minimum 6dB<br>Bandwidth<br>[MHz] | Pass/Fail |
|--------------------|---------|----------------|------------------|---------------------------------------|---------------------------------|-----------------------------------|-----------|
| 2412               | 1       | b              | 11               | 12.72                                 | 8.51                            | 0.50                              | Pass      |
| 2437               | 6       | b              | 11               | 12.87                                 | 8.92                            | 0.50                              | Pass      |
| 2462               | 11      | b              | 11               | 12.85                                 | 9.12                            | 0.50                              | Pass      |
| 2412               | 1       | g              | 54               | 16.46                                 | 16.52                           | 0.50                              | Pass      |
| 2437               | 6       | g              | 54               | 16.52                                 | 16.54                           | 0.50                              | Pass      |
| 2462               | 11      | g              | 54               | 16.48                                 | 16.53                           | 0.50                              | Pass      |
| 2412               | 1       | n              | 65/72.2 (MCS7)   | 17.65                                 | 17.74                           | 0.50                              | Pass      |
| 2437               | 6       | n              | 65/72.2 (MCS7)   | 17.70                                 | 17.74                           | 0.50                              | Pass      |
| 2462               | 11      | n              | 65/72.2 (MCS7)   | 17.68                                 | 17.75                           | 0.50                              | Pass      |
| 2412               | 1       | ax (SU)        | 81/86 (MCS9)     | 18.93                                 | 19.06                           | 0.50                              | Pass      |
| 2437               | 6       | ax (SU)        | 81/86 (MCS9)     | 18.99                                 | 19.10                           | 0.50                              | Pass      |
| 2462               | 11      | ax (SU)        | 81/86 (MCS9)     | 18.96                                 | 19.12                           | 0.50                              | Pass      |

Table 7-7. Conducted Bandwidth Measurements Antenna 1a (High Data Rate)

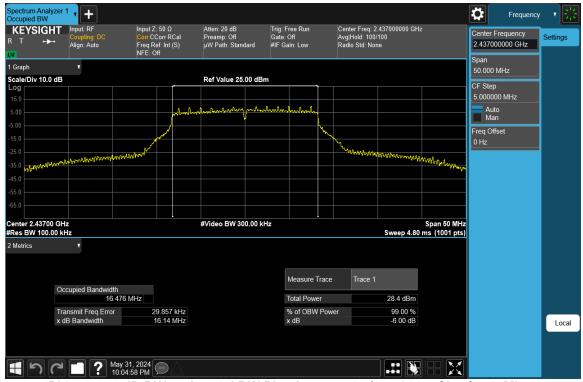
| FCC ID: BCGA2995<br>IC: 579C-A2995 | element MEASUREMENT REPORT (CERTIFICATION) |               | Approved by:<br>Technical Manager |
|------------------------------------|--|---------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:                                | EUT Type:     | Dags 25 of 420                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024                      | Tablet Device | Page 35 of 430                    |



#### Low Rate



Plot 7-31. 6 dB BW and 99% OBW Plot Antenna 1a (802.11g - Ch. 1) - 12Mbps



Plot 7-32. 6 dB BW and 99% OBW Plot Antenna 1a (802.11g - Ch. 6) - 12Mbps

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | Approved by: Technical Manager |                |
|------------------------------------|-----------------------|--------------------------------|----------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                      | Dags 20 of 420 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                  | Page 36 of 430 |





Plot 7-33. 6 dB BW and 99% OBW Plot Antenna 1a (802.11g - Ch. 11) - 12Mbps



Plot 7-34. 6 dB BW and 99% OBW Plot Antenna 1a (802.11n (2.4GHz) - Ch. 1) - MCS2

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogo 27 of 420                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 37 of 430                    |





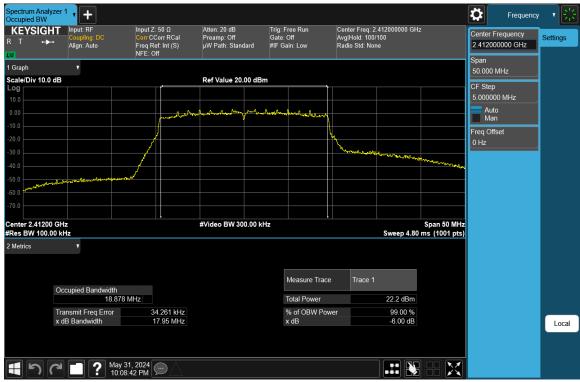
Plot 7-35. 6 dB BW and 99% OBW Plot Antenna 1a (802.11n (2.4GHz) - Ch. 6) - MCS2



Plot 7-36. 6 dB BW and 99% OBW Plot Antenna 1a (802.11n (2.4GHz) - Ch. 11) - MCS2

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element MEASUREMENT REPORT (CERTIFICATION) |               | Approved by:<br>Technical Manager |
|------------------------------------|--|---------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:                                | EUT Type:     | Dags 20 of 420                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024                      | Tablet Device | Page 38 of 430                    |





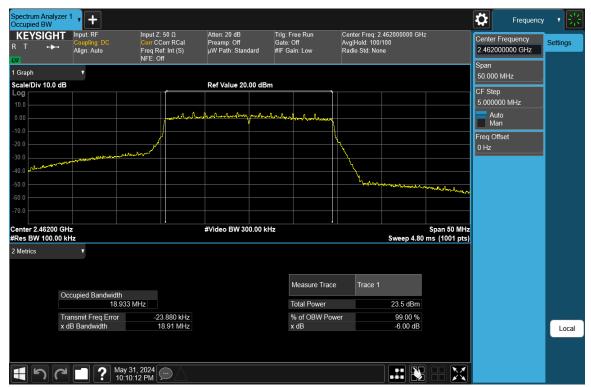
Plot 7-37. 6 dB BW and 99% OBW Plot Antenna 1a (802.11ax (SU - 2.4GHz) - Ch. 1) - MCS2



Plot 7-38. 6 dB BW and 99% OBW Plot Antenna 1a (802.11ax (SU - 2.4GHz) - Ch. 6) - MCS2

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dags 20 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 39 of 430                 |





Plot 7-39. 6 dB BW and 99% OBW Plot Antenna 1a (802.11ax (SU - 2.4GHz) - Ch. 11) - MCS2

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element MEASUREMENT REPORT (CERTIFICATION) |               | Approved by:<br>Technical Manager |
|------------------------------------|--|---------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:                                | EUT Type:     | Dogg 40 of 420                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024                      | Tablet Device | Page 40 of 430                    |





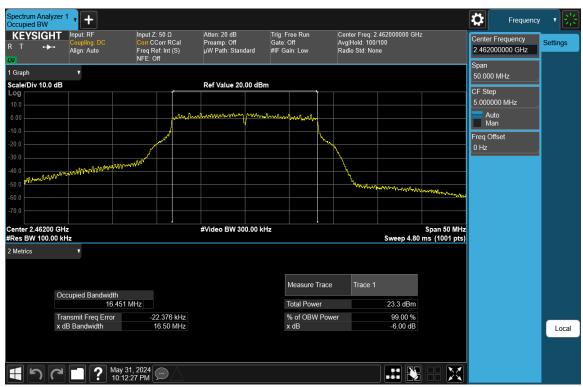
Plot 7-40. 6 dB BW and 99% OBW Plot Antenna 1a (802.11g - Ch. 1) - 24Mbps



Plot 7-41. 6 dB BW and 99% OBW Plot Antenna 1a (802.11g - Ch. 6) - 24Mbps

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                          | Dogo 44 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                      | Page 41 of 430                 |





Plot 7-42. 6 dB BW and 99% OBW Plot Antenna 1a (802.11g - Ch. 11) - 24Mbps



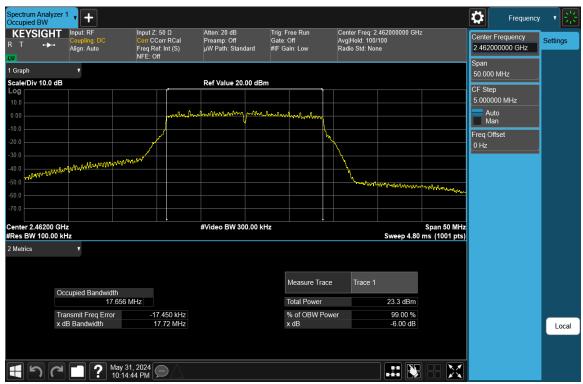
Plot 7-43. 6 dB BW and 99% OBW Plot Antenna 1a (802.11n (2.4GHz) - Ch. 1) - MCS4

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | element MEASUREMENT REPORT (CERTIFICATION) |                |
|------------------------------------|-----------------------|--|----------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                                  | Dogg 40 of 400 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                              | Page 42 of 430 |





Plot 7-44. 6 dB BW and 99% OBW Plot Antenna 1a (802.11n (2.4GHz) - Ch. 6) - MCS4



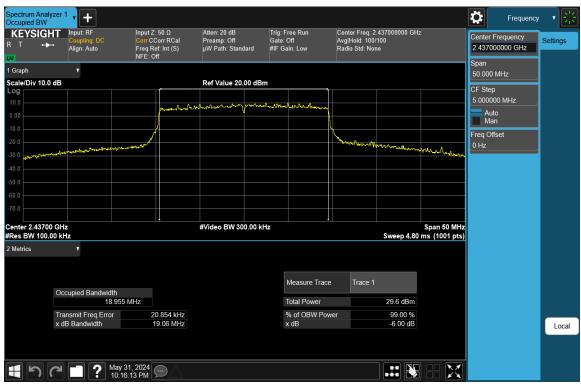
Plot 7-45. 6 dB BW and 99% OBW Plot Antenna 1a (802.11n (2.4GHz) - Ch. 11) - MCS4

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogg 42 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 43 of 430                 |





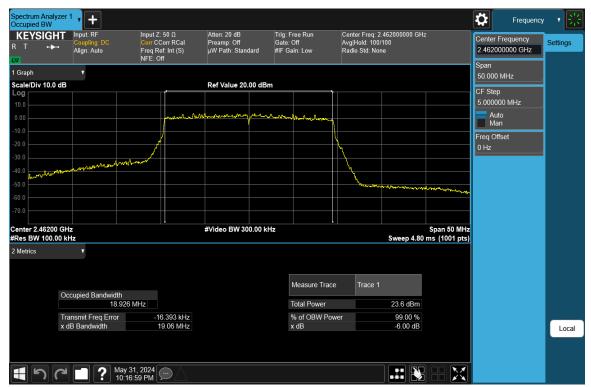
Plot 7-46. 6 dB BW and 99% OBW Plot Antenna 1a (802.11ax (SU - 2.4GHz) - Ch. 1) - MCS4



Plot 7-47. 6 dB BW and 99% OBW Plot Antenna 1a (802.11ax (SU - 2.4GHz) - Ch. 6) - MCS4

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogo 44 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 44 of 430                 |

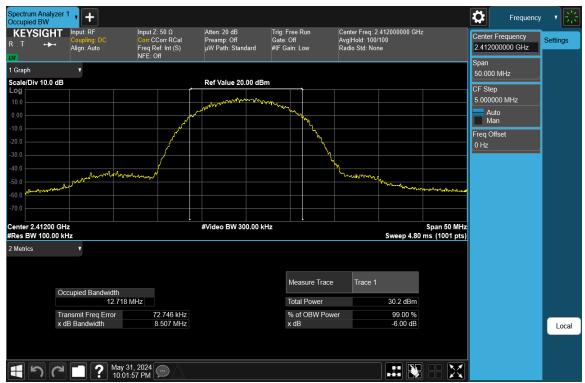




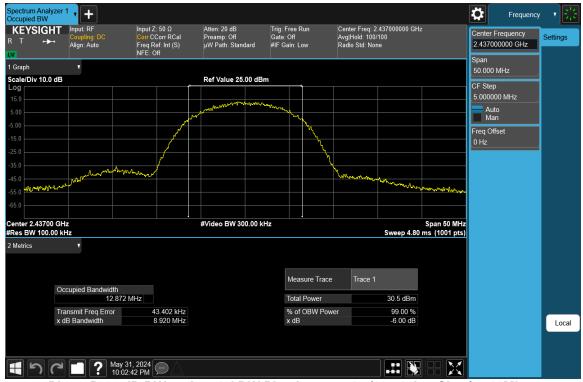
Plot 7-48. 6 dB BW and 99% OBW Plot Antenna 1a (802.11ax (SU - 2.4GHz) - Ch. 11) - MCS4

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element MEASUREMENT REPORT (CERTIFICATION) |               | Approved by: Technical Manager |
|------------------------------------|--|---------------|--------------------------------|
| Test Report S/N:                   | Test Dates:                                | EUT Type:     | Dog 45 of 420                  |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024                      | Tablet Device | Page 45 of 430                 |





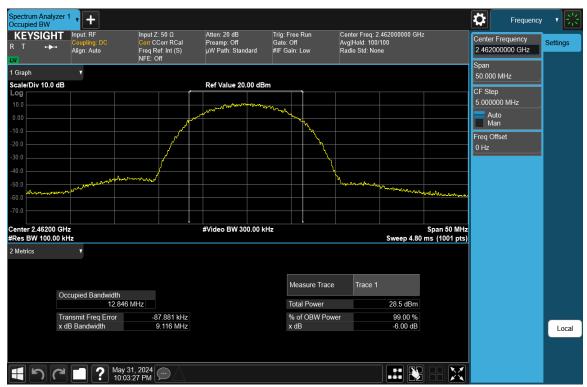
Plot 7-49. 6 dB BW and 99% OBW Plot Antenna 1a (802.11b - Ch. 1) - 11Mbps



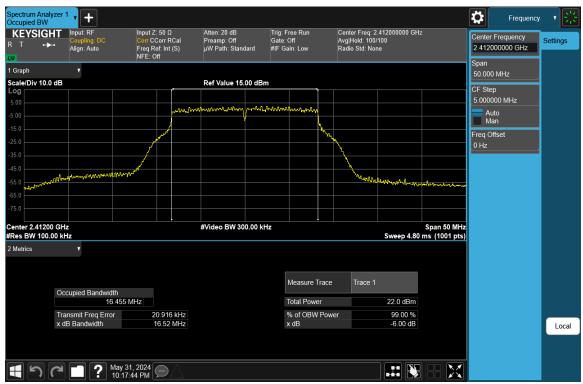
Plot 7-50. 6 dB BW and 99% OBW Plot Antenna 1a (802.11b - Ch. 6) - 11Mbps

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element MEASUREMENT REPORT (CERTIFICATION) |               | Approved by: Technical Manager |
|------------------------------------|--|---------------|--------------------------------|
| Test Report S/N:                   | Test Dates:                                | EUT Type:     | Dags 40 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024                      | Tablet Device | Page 46 of 430                 |





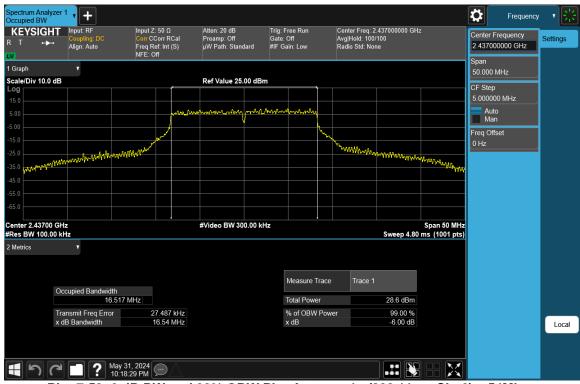
Plot 7-51. 6 dB BW and 99% OBW Plot Antenna 1a (802.11b - Ch. 11) - 11Mbps



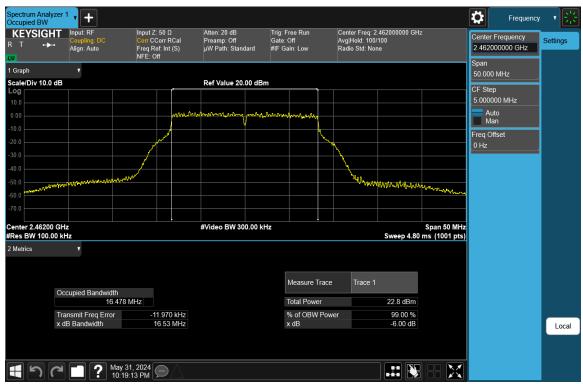
Plot 7-52. 6 dB BW and 99% OBW Plot Antenna 1a (802.11g - Ch. 1) - 54Mbps

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element MEASUREMENT REPORT (CERTIFICATION) |               | Approved by: Technical Manager |
|------------------------------------|--|---------------|--------------------------------|
| Test Report S/N:                   | Test Dates:                                | EUT Type:     | Dogo 47 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024                      | Tablet Device | Page 47 of 430                 |





Plot 7-53. 6 dB BW and 99% OBW Plot Antenna 1a (802.11g - Ch. 6) - 54Mbps



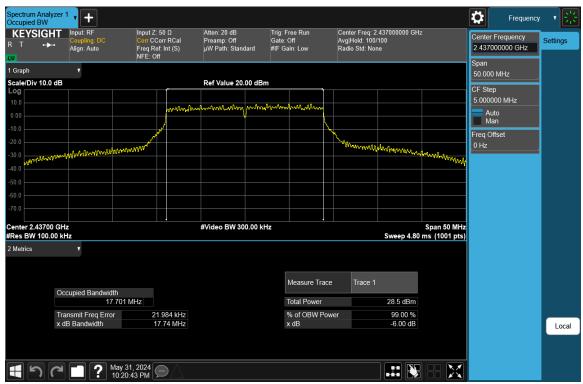
Plot 7-54. 6 dB BW and 99% OBW Plot Antenna 1a (802.11g - Ch. 11) - 54Mbps

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element MEASUREMENT REPORT (CERTIFICATION) |               | Approved by: Technical Manager |
|------------------------------------|--|---------------|--------------------------------|
| Test Report S/N:                   | Test Dates:                                | EUT Type:     | Dogg 40 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024                      | Tablet Device | Page 48 of 430                 |





Plot 7-55. 6 dB BW and 99% OBW Plot Antenna 1a (802.11n (2.4GHz) - Ch. 1) - MCS7



Plot 7-56. 6 dB BW and 99% OBW Plot Antenna 1a (802.11n (2.4GHz) - Ch. 6) - MCS7

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogg 40 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 49 of 430                 |





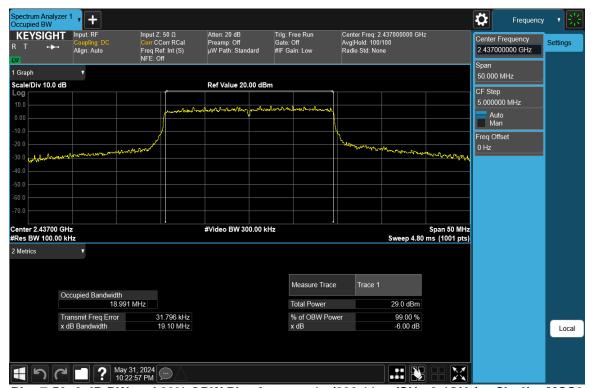
Plot 7-57. 6 dB BW and 99% OBW Plot Antenna 1a (802.11n (2.4GHz) - Ch. 11) - MCS7



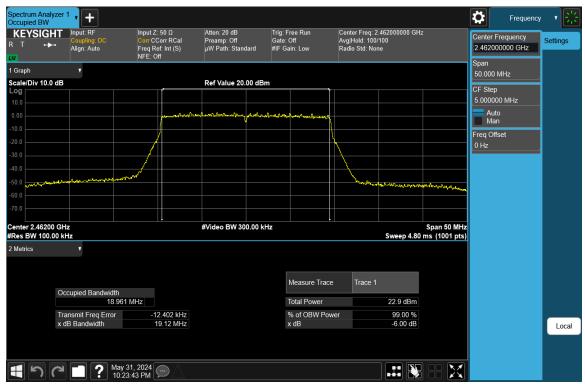
Plot 7-58. 6 dB BW and 99% OBW Plot Antenna 1a (802.11ax (SU - 2.4GHz) - Ch. 1) - MCS9

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogg F0 of 420                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 50 of 430                    |





Plot 7-59. 6 dB BW and 99% OBW Plot Antenna 1a (802.11ax (SU - 2.4GHz) - Ch. 6) - MCS9



Plot 7-60. 6 dB BW and 99% OBW Plot Antenna 1a (802.11ax (SU - 2.4GHz) - Ch. 11) - MCS9

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogo 54 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 51 of 430                 |



## 7.3 Output Power Measurement §15.247(b.3); RSS-247 [5.4]

#### **Test Overview and Limits**

A transmitter antenna terminal of EUT is connected to the input of an RF power sensor. Measurement is made using a broadband power meter capable of making peak and average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

The maximum peak conducted output power of digital modulation systems operating in the 2400-2483.5 MHz band is 1 Watt.

The conducted output power limit on paragraph above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For DTSs employing digital modulation techniques operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W.

#### **Test Procedure Used**

ANSI C63.10-2020 – Subclause 11.9.1.3 PKPM1 Peak Power Method KDB 558074 D01 v05r02 – Section 8.3.1.3 PKPM1 Peak-reading Power Meter Method ANSI C63.10-2020 – Subclause 11.9.2.3.2 Method AVGPM-G KDB 558074 D01 v05r02 – Section 8.3.2.3 Measurement using a Power Meter (PM) ANSI C63.10-2020 – Subclause 14.2 Measure-and-Sum Technique KDB 662911 D01 v02r01 – Section E)1) Measure-and-Sum Technique

#### **Test Settings**

## Method PKPM1 (Peak Power Measurement)

Peak 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 pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

## Method AVGPM-G (Average Power Measurement)

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 diagrams below.



Figure 7-2. Test Instrument & Measurement Setup for Power Meter Measurements

#### **Test Notes**

- 1. For 802.11b, the worst case data rate was found to be 11Mbps.
- 2. 802.11ax does not support channel 13.

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogg 50 of 400                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 52 of 430                    |



# 7.3.1 Average Output Power Measurement §15.247(b.3); RSS-247 [5.4]

## **Low Rate**

| Freq [MHz] Channel | Channel | Detector | Conducted Power [dBm] |         |               | Conducted<br>Power Limit | Conducted<br>Power | Ant. Gain<br>[dBi] | Max e.i.r.p. | Max e.i.r.p.<br>Limit [dBm] | e.i.r.p.<br>Margin [dB] |
|--------------------|---------|----------|-----------------------|---------|---------------|--------------------------|--------------------|--------------------|--------------|-----------------------------|-------------------------|
|                    |         |          | 802.11g               | 802.11n | 802.11ax (SU) | [dBm]                    | Margin [dB]        |                    | []           |                             | 3[]                     |
| 2412               | 1       | AVG      | 13.81                 | 13.92   | 13.75         | 30.00                    | -16.08             | -0.30              | 13.62        | 36.02                       | -22.40                  |
| 2417               | 2       | AVG      | 18.70                 | 18.71   | 17.36         | 30.00                    | -11.29             | -0.30              | 18.41        | 36.02                       | -17.61                  |
| 2422               | 3       | AVG      | 19.23                 | 19.21   | 19.39         | 30.00                    | -10.61             | -0.30              | 19.09        | 36.02                       | -16.93                  |
| 2427               | 4       | AVG      | 20.69                 | 20.54   | 20.33         | 30.00                    | -9.31              | -0.30              | 20.39        | 36.02                       | -15.63                  |
| 2432               | 5       | AVG      | 20.93                 | 20.90   | 21.10         | 30.00                    | -8.90              | -0.30              | 20.80        | 36.02                       | -15.22                  |
| 2437               | 6       | AVG      | 21.25                 | 21.36   | 21.08         | 30.00                    | -8.64              | -0.30              | 21.06        | 36.02                       | -14.96                  |
| 2442               | 7       | AVG      | 19.73                 | 19.88   | 19.67         | 30.00                    | -10.12             | -0.30              | 19.58        | 36.02                       | -16.44                  |
| 2447               | 8       | AVG      | 19.74                 | 19.47   | 19.05         | 30.00                    | -10.26             | -0.30              | 19.44        | 36.02                       | -16.58                  |
| 2452               | 9       | AVG      | 19.36                 | 19.34   | 19.00         | 30.00                    | -10.64             | -0.30              | 19.06        | 36.02                       | -16.96                  |
| 2457               | 10      | AVG      | 18.78                 | 18.69   | 17.38         | 30.00                    | -11.22             | -0.30              | 18.48        | 36.02                       | -17.54                  |
| 2462               | 11      | AVG      | 15.38                 | 15.34   | 15.13         | 30.00                    | -14.62             | -0.30              | 15.08        | 36.02                       | -20.94                  |
| 2467               | 12      | AVG      | 12.63                 | 12.97   | 12.66         | 30.00                    | -17.04             | -0.30              | 12.67        | 36.02                       | -23.36                  |
| 2472               | 13      | AVG      | 8.36                  | 8.12    | -             | 30.00                    | -21.64             | -0.30              | 8.06         | 36.02                       | -27.96                  |

Table 7-8. Average Conducted Output Power Measurements Antenna 3a – Low Data Rate

| Freq [MHz] C | Channel | nannel Detector | Conducted Power [dBm] |         |               | Conducted Power Limit | Conducted Power | Ant. Gain<br>[dBi] | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p.<br>Margin [dB] |
|--------------|---------|-----------------|-----------------------|---------|---------------|-----------------------|-----------------|--------------------|--------------|--------------|-------------------------|
|              |         |                 | 802.11g               | 802.11n | 802.11ax (SU) | [dBm]                 | Margin [dB]     |                    | []           |              | 9[]                     |
| 2412         | 1       | AVG             | 13.66                 | 13.96   | 13.64         | 30.00                 | -16.04          | 0.90               | 14.86        | 36.02        | -21.16                  |
| 2417         | 2       | AVG             | 18.67                 | 18.86   | 17.19         | 30.00                 | -11.15          | 0.90               | 19.76        | 36.02        | -16.27                  |
| 2422         | 3       | AVG             | 19.48                 | 19.46   | 19.20         | 30.00                 | -10.52          | 0.90               | 20.38        | 36.02        | -15.64                  |
| 2427         | 4       | AVG             | 20.55                 | 20.59   | 20.60         | 30.00                 | -9.41           | 0.90               | 21.50        | 36.02        | -14.53                  |
| 2432         | 5       | AVG             | 20.92                 | 21.09   | 21.02         | 30.00                 | -8.91           | 0.90               | 21.99        | 36.02        | -14.03                  |
| 2437         | 6       | AVG             | 21.17                 | 21.29   | 21.50         | 30.00                 | -8.50           | 0.90               | 22.40        | 36.02        | -13.62                  |
| 2442         | 7       | AVG             | 19.65                 | 19.99   | 19.73         | 30.00                 | -10.01          | 0.90               | 20.89        | 36.02        | -15.13                  |
| 2447         | 8       | AVG             | 19.51                 | 19.39   | 19.24         | 30.00                 | -10.49          | 0.90               | 20.41        | 36.02        | -15.61                  |
| 2452         | 9       | AVG             | 19.33                 | 19.27   | 18.96         | 30.00                 | -10.67          | 0.90               | 20.23        | 36.02        | -15.79                  |
| 2457         | 10      | AVG             | 18.87                 | 18.64   | 17.14         | 30.00                 | -11.14          | 0.90               | 19.77        | 36.02        | -16.26                  |
| 2462         | 11      | AVG             | 15.30                 | 15.20   | 15.27         | 30.00                 | -14.70          | 0.90               | 16.20        | 36.02        | -19.82                  |
| 2467         | 12      | AVG             | 12.77                 | 12.74   | 12.39         | 30.00                 | -17.23          | 0.90               | 13.67        | 36.02        | -22.35                  |
| 2472         | 13      | AVG             | 8.45                  | 8.20    | -             | 30.00                 | -21.55          | 0.90               | 9.35         | 36.02        | -26.67                  |

Table 7-9. Average Conducted Output Power Measurements Antenna 1a – Low Data Rate

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogo F2 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 53 of 430                 |



| Freq [MHz] Channel D |    | Detector |            |            | ucted Power [dBm] |       | Conducted<br>Power | Directional<br>Ant. Gain | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p.<br>Margin [dB] |
|----------------------|----|----------|------------|------------|-------------------|-------|--------------------|--------------------------|--------------|--------------|-------------------------|
|                      |    |          | Antenna 3a | Antenna 1a | Summed            | [dBm] | Margin [dB]        | [dBi]                    | []           |              | 9[]                     |
| 2412                 | 1  | AVG      | 13.37      | 13.03      | 16.21             | 30.00 | -13.79             | 3.33                     | 19.54        | 36.02        | -16.48                  |
| 2417                 | 2  | AVG      | 18.50      | 18.40      | 21.46             | 30.00 | -8.54              | 3.33                     | 24.79        | 36.02        | -11.23                  |
| 2422                 | 3  | AVG      | 18.75      | 18.70      | 21.73             | 30.00 | -8.27              | 3.33                     | 25.06        | 36.02        | -10.96                  |
| 2427                 | 4  | AVG      | 20.02      | 20.06      | 23.05             | 30.00 | -6.95              | 3.33                     | 26.38        | 36.02        | -9.64                   |
| 2432                 | 5  | AVG      | 20.58      | 20.49      | 23.54             | 30.00 | -6.46              | 3.33                     | 26.87        | 36.02        | -9.15                   |
| 2437                 | 6  | AVG      | 20.84      | 20.74      | 23.80             | 30.00 | -6.20              | 3.33                     | 27.13        | 36.02        | -8.89                   |
| 2442                 | 7  | AVG      | 19.77      | 19.65      | 22.72             | 30.00 | -7.28              | 3.33                     | 26.05        | 36.02        | -9.97                   |
| 2447                 | 8  | AVG      | 18.14      | 17.91      | 21.04             | 30.00 | -8.96              | 3.33                     | 24.37        | 36.02        | -11.65                  |
| 2452                 | 9  | AVG      | 18.40      | 18.18      | 21.30             | 30.00 | -8.70              | 3.33                     | 24.63        | 36.02        | -11.39                  |
| 2457                 | 10 | AVG      | 18.23      | 18.35      | 21.30             | 30.00 | -8.70              | 3.33                     | 24.63        | 36.02        | -11.39                  |
| 2462                 | 11 | AVG      | 15.50      | 15.15      | 18.34             | 30.00 | -11.66             | 3.33                     | 21.67        | 36.02        | -14.35                  |
| 2467                 | 12 | AVG      | 12.85      | 12.73      | 15.80             | 30.00 | -14.20             | 3.33                     | 19.13        | 36.02        | -16.89                  |
| 2472                 | 13 | AVG      | 8.15       | 8.50       | 11.34             | 30.00 | -18.66             | 3.33                     | 14.67        | 36.02        | -21.35                  |

Table 7-10. Average Conducted Output Power Measurements CDD (802.11g) – Low Data Rate

| Freq [MHz] CI | Channel | Detector | Conducted Power [dBm] |            |        | Conducted<br>Power Limit | Conducted<br>Power | Directional<br>Ant. Gain | Max e.i.r.p. | Max e.i.r.p.<br>Limit [dBm] | e.i.r.p.<br>Margin [dB] |
|---------------|---------|----------|-----------------------|------------|--------|--------------------------|--------------------|--------------------------|--------------|-----------------------------|-------------------------|
|               |         |          | Antenna 3a            | Antenna 1a | Summed | [dBm]                    | Margin [dB]        | [dBi]                    | []           |                             |                         |
| 2412          | 1       | AVG      | 13.24                 | 13.45      | 16.36  | 30.00                    | -13.64             | 3.33                     | 19.69        | 36.02                       | -16.33                  |
| 2417          | 2       | AVG      | 18.31                 | 18.12      | 21.23  | 30.00                    | -8.77              | 3.33                     | 24.56        | 36.02                       | -11.46                  |
| 2422          | 3       | AVG      | 18.98                 | 18.70      | 21.85  | 30.00                    | -8.15              | 3.33                     | 25.18        | 36.02                       | -10.84                  |
| 2427          | 4       | AVG      | 20.09                 | 20.07      | 23.09  | 30.00                    | -6.91              | 3.33                     | 26.42        | 36.02                       | -9.60                   |
| 2432          | 5       | AVG      | 20.75                 | 20.65      | 23.71  | 30.00                    | -6.29              | 3.33                     | 27.04        | 36.02                       | -8.98                   |
| 2437          | 6       | AVG      | 20.86                 | 20.95      | 23.91  | 30.00                    | -6.09              | 3.33                     | 27.24        | 36.02                       | -8.78                   |
| 2442          | 7       | AVG      | 19.77                 | 19.97      | 22.88  | 30.00                    | -7.12              | 3.33                     | 26.21        | 36.02                       | -9.81                   |
| 2447          | 8       | AVG      | 18.11                 | 18.23      | 21.18  | 30.00                    | -8.82              | 3.33                     | 24.51        | 36.02                       | -11.51                  |
| 2452          | 9       | AVG      | 18.50                 | 18.20      | 21.36  | 30.00                    | -8.64              | 3.33                     | 24.69        | 36.02                       | -11.33                  |
| 2457          | 10      | AVG      | 18.21                 | 18.34      | 21.29  | 30.00                    | -8.71              | 3.33                     | 24.62        | 36.02                       | -11.40                  |
| 2462          | 11      | AVG      | 15.23                 | 15.17      | 18.21  | 30.00                    | -11.79             | 3.33                     | 21.54        | 36.02                       | -14.48                  |
| 2467          | 12      | AVG      | 12.73                 | 12.80      | 15.78  | 30.00                    | -14.22             | 3.33                     | 19.11        | 36.02                       | -16.91                  |
| 2472          | 13      | AVG      | 8.36                  | 8.50       | 11.44  | 30.00                    | -18.56             | 3.33                     | 14.77        | 36.02                       | -21.25                  |

Table 7-11. Average Conducted Output Power Measurements CDD (802.11n) - Low Data Rate

| Freq [MHz] | Channel | Detector | Cond       | ucted Power [ | dBm]   | Conducted<br>Power Limit<br>[dBm] | Conducted Power | Directional<br>Ant. Gain | Max e.i.r.p.<br>[dBm] | Max e.i.r.p.<br>Limit [dBm] | e.i.r.p.<br>Margin [dB] |
|------------|---------|----------|------------|---------------|--------|-----------------------------------|-----------------|--------------------------|-----------------------|-----------------------------|-------------------------|
|            |         |          | Antenna 3a | Antenna 1a    | Summed |                                   | Margin [dB]     | [dBi]                    | []                    |                             |                         |
| 2412       | 1       | AVG      | 13.32      | 13.45         | 16.39  | 30.00                             | -13.61          | 3.33                     | 19.72                 | 36.02                       | -16.30                  |
| 2417       | 2       | AVG      | 17.50      | 17.45         | 20.48  | 30.00                             | -9.52           | 3.33                     | 23.81                 | 36.02                       | -12.21                  |
| 2422       | 3       | AVG      | 18.67      | 18.81         | 21.75  | 30.00                             | -8.25           | 3.33                     | 25.08                 | 36.02                       | -10.94                  |
| 2427       | 4       | AVG      | 19.97      | 19.72         | 22.85  | 30.00                             | -7.15           | 3.33                     | 26.18                 | 36.02                       | -9.84                   |
| 2432       | 5       | AVG      | 20.52      | 20.58         | 23.56  | 30.00                             | -6.44           | 3.33                     | 26.89                 | 36.02                       | -9.13                   |
| 2437       | 6       | AVG      | 20.86      | 20.79         | 23.83  | 30.00                             | -6.17           | 3.33                     | 27.16                 | 36.02                       | -8.86                   |
| 2442       | 7       | AVG      | 19.71      | 19.55         | 22.64  | 30.00                             | -7.36           | 3.33                     | 25.97                 | 36.02                       | -10.05                  |
| 2447       | 8       | AVG      | 17.77      | 17.75         | 20.77  | 30.00                             | -9.23           | 3.33                     | 24.10                 | 36.02                       | -11.92                  |
| 2452       | 9       | AVG      | 17.60      | 17.55         | 20.59  | 30.00                             | -9.41           | 3.33                     | 23.92                 | 36.02                       | -12.10                  |
| 2457       | 10      | AVG      | 16.86      | 16.68         | 19.78  | 30.00                             | -10.22          | 3.33                     | 23.11                 | 36.02                       | -12.91                  |
| 2462       | 11      | AVG      | 15.07      | 15.02         | 18.05  | 30.00                             | -11.95          | 3.33                     | 21.38                 | 36.02                       | -14.64                  |
| 2467       | 12      | AVG      | 12.73      | 12.41         | 15.58  | 30.00                             | -14.42          | 3.33                     | 18.91                 | 36.02                       | -17.11                  |

Table 7-12. Average Conducted Output Power Measurements CDD (802.11ax - SU) - Low Data Rate

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | element MEASUREMENT REPORT (CERTIFICATION) |                |  |  |
|------------------------------------|-----------------------|--|----------------|--|--|
| Test Report S/N:                   | Test Dates:           | EUT Type:                                  | Dogo F4 of 420 |  |  |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                              | Page 54 of 430 |  |  |



| Freq [MHz] Channel |    | Detector | Conducted Power [dBm] |         |               | Conducted<br>Power Limit | Conducted<br>Power | Ant. Gain<br>[dBi] | Max e.i.r.p. | Max e.i.r.p.<br>Limit [dBm] | e.i.r.p.<br>Margin [dB] |
|--------------------|----|----------|-----------------------|---------|---------------|--------------------------|--------------------|--------------------|--------------|-----------------------------|-------------------------|
|                    |    |          | 802.11g               | 802.11n | 802.11ax (SU) | [dBm]                    | Margin [dB]        | • •                |              |                             |                         |
| 2412               | 1  | AVG      | 13.40                 | 13.22   | 13.29         | 30.00                    | -16.61             | -0.30              | 13.10        | 36.02                       | -22.93                  |
| 2417               | 2  | AVG      | 17.62                 | 17.78   | 16.94         | 30.00                    | -12.22             | -0.30              | 17.48        | 36.02                       | -18.54                  |
| 2422               | 3  | AVG      | 18.80                 | 18.80   | 18.51         | 30.00                    | -11.20             | -0.30              | 18.50        | 36.02                       | -17.52                  |
| 2427               | 4  | AVG      | 20.35                 | 20.12   | 20.29         | 30.00                    | -9.65              | -0.30              | 20.05        | 36.02                       | -15.97                  |
| 2432               | 5  | AVG      | 20.66                 | 20.91   | 20.87         | 30.00                    | -9.09              | -0.30              | 20.61        | 36.02                       | -15.41                  |
| 2437               | 6  | AVG      | 21.34                 | 21.37   | 21.31         | 30.00                    | -8.63              | -0.30              | 21.07        | 36.02                       | -14.95                  |
| 2442               | 7  | AVG      | 19.85                 | 19.87   | 19.61         | 30.00                    | -10.13             | -0.30              | 19.57        | 36.02                       | -16.45                  |
| 2447               | 8  | AVG      | 19.46                 | 19.44   | 18.77         | 30.00                    | -10.54             | -0.30              | 19.16        | 36.02                       | -16.86                  |
| 2452               | 9  | AVG      | 18.00                 | 17.80   | 17.72         | 30.00                    | -12.00             | -0.30              | 17.70        | 36.02                       | -18.32                  |
| 2457               | 10 | AVG      | 17.60                 | 17.86   | 16.68         | 30.00                    | -12.14             | -0.30              | 17.56        | 36.02                       | -18.46                  |
| 2462               | 11 | AVG      | 14.79                 | 14.82   | 14.64         | 30.00                    | -15.18             | -0.30              | 14.52        | 36.02                       | -21.50                  |
| 2467               | 12 | AVG      | 12.87                 | 12.69   | 12.61         | 30.00                    | -17.13             | -0.30              | 12.57        | 36.02                       | -23.45                  |
| 2472               | 13 | AVG      | 8.31                  | 8.11    | -             | 30.00                    | -21.69             | -0.30              | 8.01         | 36.02                       | -28.01                  |

Table 7-13. Average Conducted Output Power Measurements Antenna 3a - Mid Data Rate

| Freq [MHz] Ch | Channel | Detector | Conducted Power [dBm] |         |               | Conducted<br>Power Limit | Conducted<br>Power | Ant. Gain<br>[dBi] | Max e.i.r.p. | Max e.i.r.p.<br>Limit [dBm] | e.i.r.p.<br>Margin [dB] |
|---------------|---------|----------|-----------------------|---------|---------------|--------------------------|--------------------|--------------------|--------------|-----------------------------|-------------------------|
|               |         |          | 802.11g               | 802.11n | 802.11ax (SU) | [dBm]                    | Margin [dB]        |                    |              |                             | 0 1 1                   |
| 2412          | 1       | AVG      | 13.29                 | 13.32   | 13.17         | 30.00                    | -16.68             | 0.90               | 14.22        | 36.02                       | -21.80                  |
| 2417          | 2       | AVG      | 17.76                 | 17.96   | 16.81         | 30.00                    | -12.04             | 0.90               | 18.86        | 36.02                       | -17.16                  |
| 2422          | 3       | AVG      | 18.84                 | 18.82   | 18.39         | 30.00                    | -11.16             | 0.90               | 19.74        | 36.02                       | -16.28                  |
| 2427          | 4       | AVG      | 20.16                 | 20.37   | 20.21         | 30.00                    | -9.63              | 0.90               | 21.27        | 36.02                       | -14.75                  |
| 2432          | 5       | AVG      | 20.81                 | 20.80   | 20.72         | 30.00                    | -9.19              | 0.90               | 21.71        | 36.02                       | -14.31                  |
| 2437          | 6       | AVG      | 21.27                 | 21.29   | 21.47         | 30.00                    | -8.54              | 0.90               | 22.37        | 36.02                       | -13.66                  |
| 2442          | 7       | AVG      | 19.77                 | 19.99   | 19.68         | 30.00                    | -10.01             | 0.90               | 20.89        | 36.02                       | -15.13                  |
| 2447          | 8       | AVG      | 19.18                 | 19.39   | 18.69         | 30.00                    | -10.61             | 0.90               | 20.29        | 36.02                       | -15.73                  |
| 2452          | 9       | AVG      | 17.76                 | 17.69   | 17.67         | 30.00                    | -12.24             | 0.90               | 18.66        | 36.02                       | -17.36                  |
| 2457          | 10      | AVG      | 17.66                 | 17.82   | 16.63         | 30.00                    | -12.18             | 0.90               | 18.72        | 36.02                       | -17.30                  |
| 2462          | 11      | AVG      | 14.98                 | 14.66   | 14.85         | 30.00                    | -15.02             | 0.90               | 15.88        | 36.02                       | -20.14                  |
| 2467          | 12      | AVG      | 12.75                 | 12.71   | 12.42         | 30.00                    | -17.26             | 0.90               | 13.65        | 36.02                       | -22.38                  |
| 2472          | 13      | AVG      | 8.41                  | 8.45    | -             | 30.00                    | -21.55             | 0.90               | 9.35         | 36.02                       | -26.67                  |

Table 7-14. Average Conducted Output Power Measurements Antenna 1a - Mid Data Rate

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogo EE of 420                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 55 of 430                    |



| Freq [MHz] | Channel | Detector | Cond       | ucted Power [ | dBm]   | Conducted<br>Power Limit | Conducted<br>Power | Directional<br>Ant. Gain | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p.<br>Margin [dB] |
|------------|---------|----------|------------|---------------|--------|--------------------------|--------------------|--------------------------|--------------|--------------|-------------------------|
|            |         |          | Antenna 3a | Antenna 1a    | Summed | [dBm]                    | Margin [dB]        | [dBi]                    | []           |              | 9[]                     |
| 2412       | 1       | AVG      | 13.25      | 13.17         | 16.22  | 30.00                    | -13.78             | 3.33                     | 19.55        | 36.02        | -16.47                  |
| 2417       | 2       | AVG      | 17.63      | 17.82         | 20.73  | 30.00                    | -9.27              | 3.33                     | 24.06        | 36.02        | -11.96                  |
| 2422       | 3       | AVG      | 18.63      | 18.46         | 21.56  | 30.00                    | -8.44              | 3.33                     | 24.89        | 36.02        | -11.13                  |
| 2427       | 4       | AVG      | 19.95      | 19.64         | 22.80  | 30.00                    | -7.20              | 3.33                     | 26.13        | 36.02        | -9.89                   |
| 2432       | 5       | AVG      | 20.34      | 20.14         | 23.25  | 30.00                    | -6.75              | 3.33                     | 26.58        | 36.02        | -9.44                   |
| 2437       | 6       | AVG      | 21.00      | 20.94         | 23.98  | 30.00                    | -6.02              | 3.33                     | 27.31        | 36.02        | -8.71                   |
| 2442       | 7       | AVG      | 19.48      | 19.50         | 22.50  | 30.00                    | -7.50              | 3.33                     | 25.83        | 36.02        | -10.19                  |
| 2447       | 8       | AVG      | 17.11      | 17.09         | 20.11  | 30.00                    | -9.89              | 3.33                     | 23.44        | 36.02        | -12.58                  |
| 2452       | 9       | AVG      | 17.43      | 17.20         | 20.33  | 30.00                    | -9.67              | 3.33                     | 23.66        | 36.02        | -12.36                  |
| 2457       | 10      | AVG      | 17.17      | 17.31         | 20.25  | 30.00                    | -9.75              | 3.33                     | 23.58        | 36.02        | -12.44                  |
| 2462       | 11      | AVG      | 14.99      | 14.86         | 17.94  | 30.00                    | -12.06             | 3.33                     | 21.27        | 36.02        | -14.75                  |
| 2467       | 12      | AVG      | 12.86      | 12.62         | 15.75  | 30.00                    | -14.25             | 3.33                     | 19.08        | 36.02        | -16.94                  |
| 2472       | 13      | AVG      | 8.26       | 8.23          | 11.25  | 30.00                    | -18.75             | 3.33                     | 14.58        | 36.02        | -21.44                  |

Table 7-15. Average Conducted Output Power Measurements CDD (802.11g) - Mid Data Rate

| Freq [MHz] | Channel | Detector | Conducted Power [dBm] |            |        | Conducted<br>Power Limit | Conducted Power | Directional<br>Ant. Gain | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p.<br>Margin [dB] |
|------------|---------|----------|-----------------------|------------|--------|--------------------------|-----------------|--------------------------|--------------|--------------|-------------------------|
|            |         |          | Antenna 3a            | Antenna 1a | Summed | [dBm]                    | Margin [dB]     | [dBi]                    | []           |              | a.g [a=]                |
| 2412       | 1       | AVG      | 13.30                 | 13.39      | 16.36  | 30.00                    | -13.64          | 3.33                     | 19.69        | 36.02        | -16.33                  |
| 2417       | 2       | AVG      | 17.91                 | 17.86      | 20.89  | 30.00                    | -9.11           | 3.33                     | 24.22        | 36.02        | -11.80                  |
| 2422       | 3       | AVG      | 18.39                 | 18.69      | 21.55  | 30.00                    | -8.45           | 3.33                     | 24.88        | 36.02        | -11.14                  |
| 2427       | 4       | AVG      | 19.68                 | 19.88      | 22.79  | 30.00                    | -7.21           | 3.33                     | 26.12        | 36.02        | -9.90                   |
| 2432       | 5       | AVG      | 20.21                 | 20.16      | 23.20  | 30.00                    | -6.80           | 3.33                     | 26.53        | 36.02        | -9.49                   |
| 2437       | 6       | AVG      | 20.90                 | 20.75      | 23.84  | 30.00                    | -6.16           | 3.33                     | 27.17        | 36.02        | -8.85                   |
| 2442       | 7       | AVG      | 19.40                 | 19.37      | 22.39  | 30.00                    | -7.61           | 3.33                     | 25.72        | 36.02        | -10.30                  |
| 2447       | 8       | AVG      | 17.24                 | 17.09      | 20.18  | 30.00                    | -9.82           | 3.33                     | 23.51        | 36.02        | -12.51                  |
| 2452       | 9       | AVG      | 17.09                 | 17.50      | 20.31  | 30.00                    | -9.69           | 3.33                     | 23.64        | 36.02        | -12.38                  |
| 2457       | 10      | AVG      | 17.28                 | 17.36      | 20.33  | 30.00                    | -9.67           | 3.33                     | 23.66        | 36.02        | -12.36                  |
| 2462       | 11      | AVG      | 14.91                 | 14.73      | 17.83  | 30.00                    | -12.17          | 3.33                     | 21.16        | 36.02        | -14.86                  |
| 2467       | 12      | AVG      | 12.82                 | 12.76      | 15.80  | 30.00                    | -14.20          | 3.33                     | 19.13        | 36.02        | -16.89                  |
| 2472       | 13      | AVG      | 8.39                  | 8.48       | 11.44  | 30.00                    | -18.56          | 3.33                     | 14.77        | 36.02        | -21.25                  |

Table 7-16. Average Conducted Output Power Measurements CDD (802.11n) - Mid Data Rate

| Freq [MHz] | Channel | Detector | Conducted Power [dBm] |            |        | Conducted<br>Power Limit | Conducted Power | Directional<br>Ant. Gain | Max e.i.r.p. | Max e.i.r.p.<br>Limit [dBm] | e.i.r.p.<br>Margin [dB] |
|------------|---------|----------|-----------------------|------------|--------|--------------------------|-----------------|--------------------------|--------------|-----------------------------|-------------------------|
|            |         |          | Antenna 3a            | Antenna 1a | Summed | [dBm]                    | Margin [dB]     | [dBi]                    | [ubiii]      | Lillin [abili]              | wargin [ub]             |
| 2412       | 1       | AVG      | 12.59                 | 12.81      | 15.71  | 30.00                    | -14.29          | 3.33                     | 19.04        | 36.02                       | -16.98                  |
| 2417       | 2       | AVG      | 16.79                 | 16.84      | 19.83  | 30.00                    | -10.17          | 3.33                     | 23.16        | 36.02                       | -12.86                  |
| 2422       | 3       | AVG      | 18.54                 | 18.67      | 21.61  | 30.00                    | -8.39           | 3.33                     | 24.94        | 36.02                       | -11.08                  |
| 2427       | 4       | AVG      | 19.95                 | 19.62      | 22.80  | 30.00                    | -7.20           | 3.33                     | 26.13        | 36.02                       | -9.89                   |
| 2432       | 5       | AVG      | 20.35                 | 20.31      | 23.34  | 30.00                    | -6.66           | 3.33                     | 26.67        | 36.02                       | -9.35                   |
| 2437       | 6       | AVG      | 20.86                 | 20.90      | 23.89  | 30.00                    | -6.11           | 3.33                     | 27.22        | 36.02                       | -8.80                   |
| 2442       | 7       | AVG      | 19.34                 | 19.48      | 22.42  | 30.00                    | -7.58           | 3.33                     | 25.75        | 36.02                       | -10.27                  |
| 2447       | 8       | AVG      | 17.26                 | 17.24      | 20.26  | 30.00                    | -9.74           | 3.33                     | 23.59        | 36.02                       | -12.43                  |
| 2452       | 9       | AVG      | 16.84                 | 16.70      | 19.78  | 30.00                    | -10.22          | 3.33                     | 23.11        | 36.02                       | -12.91                  |
| 2457       | 10      | AVG      | 16.86                 | 16.83      | 19.85  | 30.00                    | -10.15          | 3.33                     | 23.18        | 36.02                       | -12.84                  |
| 2462       | 11      | AVG      | 14.71                 | 15.00      | 17.86  | 30.00                    | -12.14          | 3.33                     | 21.19        | 36.02                       | -14.83                  |
| 2467       | 12      | AVG      | 12.60                 | 12.44      | 15.53  | 30.00                    | -14.47          | 3.33                     | 18.86        | 36.02                       | -17.16                  |

Table 7-17. Average Conducted Output Power Measurements CDD (802.11ax - SU) - Mid Data Rate

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogo 50 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 56 of 430                 |



| Freq [MHz] | Channel | Detector |         | Conducted | Power [dBm] |               | Conducted<br>Power Limit | Conducted<br>Power | Ant. Gain<br>[dBi] | Max e.i.r.p. | Max e.i.r.p.<br>Limit [dBm] | e.i.r.p.<br>Margin [dB] |
|------------|---------|----------|---------|-----------|-------------|---------------|--------------------------|--------------------|--------------------|--------------|-----------------------------|-------------------------|
|            |         |          | 802.11b | 802.11g   | 802.11n     | 802.11ax (SU) | [dBm]                    | Margin [dB]        | []                 | [42]         |                             |                         |
| 2412       | 1       | AVG      | 21.49   | 13.29     | 13.22       | 12.80         | 30.00                    | -8.52              | -0.30              | 21.19        | 36.02                       | -14.84                  |
| 2417       | 2       | AVG      | 21.40   | 17.23     | 17.17       | 16.33         | 30.00                    | -8.60              | -0.30              | 21.10        | 36.02                       | -14.92                  |
| 2422       | 3       | AVG      | 21.33   | 18.49     | 18.46       | 18.49         | 30.00                    | -8.67              | -0.30              | 21.03        | 36.02                       | -14.99                  |
| 2427       | 4       | AVG      | 21.46   | 19.84     | 19.99       | 19.39         | 30.00                    | -8.54              | -0.30              | 21.16        | 36.02                       | -14.86                  |
| 2432       | 5       | AVG      | 21.11   | 20.60     | 20.70       | 20.38         | 30.00                    | -8.90              | -0.30              | 20.81        | 36.02                       | -15.22                  |
| 2437       | 6       | AVG      | 21.12   | 20.56     | 20.70       | 20.39         | 30.00                    | -8.88              | -0.30              | 20.82        | 36.02                       | -15.20                  |
| 2442       | 7       | AVG      | 21.23   | 19.37     | 19.16       | 19.21         | 30.00                    | -8.77              | -0.30              | 20.93        | 36.02                       | -15.09                  |
| 2447       | 8       | AVG      | 21.44   | 18.14     | 18.28       | 17.66         | 30.00                    | -8.56              | -0.30              | 21.14        | 36.02                       | -14.88                  |
| 2452       | 9       | AVG      | 21.11   | 17.96     | 17.63       | 16.92         | 30.00                    | -8.89              | -0.30              | 20.81        | 36.02                       | -15.21                  |
| 2457       | 10      | AVG      | 21.27   | 16.23     | 16.24       | 15.76         | 30.00                    | -8.73              | -0.30              | 20.97        | 36.02                       | -15.05                  |
| 2462       | 11      | AVG      | 21.23   | 14.13     | 14.48       | 13.93         | 30.00                    | -8.77              | -0.30              | 20.93        | 36.02                       | -15.09                  |
| 2467       | 12      | AVG      | 19.75   | 12.02     | 11.92       | 11.97         | 30.00                    | -10.25             | -0.30              | 19.45        | 36.02                       | -16.57                  |
| 2472       | 13      | AVG      | 16.43   | 7.80      | 7.74        | -             | 30.00                    | -13.57             | -0.30              | 16.13        | 36.02                       | -19.89                  |

Table 7-18. Average Conducted Output Power Measurements Antenna 3a - High Data Rate

| Freq [MHz] | Channel | Detector |         | Conducted | Power [dBm] |               | Conducted<br>Power Limit | Conducted Power | Ant. Gain<br>[dBi] | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p.<br>Margin [dB] |
|------------|---------|----------|---------|-----------|-------------|---------------|--------------------------|-----------------|--------------------|--------------|--------------|-------------------------|
|            |         |          | 802.11b | 802.11g   | 802.11n     | 802.11ax (SU) | [dBm]                    | Margin [dB]     |                    |              |              | 0                       |
| 2412       | 1       | AVG      | 21.34   | 13.48     | 13.15       | 12.69         | 30.00                    | -8.67           | 0.90               | 22.24        | 36.02        | -13.79                  |
| 2417       | 2       | AVG      | 21.25   | 17.39     | 17.28       | 16.21         | 30.00                    | -8.76           | 0.90               | 22.15        | 36.02        | -13.88                  |
| 2422       | 3       | AVG      | 21.33   | 18.75     | 18.69       | 18.13         | 30.00                    | -8.67           | 0.90               | 22.23        | 36.02        | -13.79                  |
| 2427       | 4       | AVG      | 21.05   | 19.73     | 19.69       | 19.35         | 30.00                    | -8.96           | 0.90               | 21.95        | 36.02        | -14.08                  |
| 2432       | 5       | AVG      | 21.34   | 20.53     | 20.62       | 20.12         | 30.00                    | -8.66           | 0.90               | 22.24        | 36.02        | -13.78                  |
| 2437       | 6       | AVG      | 21.37   | 20.49     | 20.60       | 20.12         | 30.00                    | -8.63           | 0.90               | 22.27        | 36.02        | -13.75                  |
| 2442       | 7       | AVG      | 21.34   | 19.10     | 19.20       | 19.26         | 30.00                    | -8.66           | 0.90               | 22.24        | 36.02        | -13.78                  |
| 2447       | 8       | AVG      | 21.16   | 18.45     | 18.11       | 17.63         | 30.00                    | -8.84           | 0.90               | 22.06        | 36.02        | -13.96                  |
| 2452       | 9       | AVG      | 21.40   | 17.61     | 17.68       | 16.96         | 30.00                    | -8.61           | 0.90               | 22.30        | 36.02        | -13.73                  |
| 2457       | 10      | AVG      | 21.47   | 16.31     | 16.43       | 15.70         | 30.00                    | -8.53           | 0.90               | 22.37        | 36.02        | -13.65                  |
| 2462       | 11      | AVG      | 21.31   | 14.36     | 14.29       | 13.80         | 30.00                    | -8.69           | 0.90               | 22.21        | 36.02        | -13.81                  |
| 2467       | 12      | AVG      | 19.71   | 12.16     | 12.07       | 12.13         | 30.00                    | -10.29          | 0.90               | 20.61        | 36.02        | -15.41                  |
| 2472       | 13      | AVG      | 16.47   | 7.63      | 7.99        | -             | 30.00                    | -13.53          | 0.90               | 17.37        | 36.02        | -18.65                  |

Table 7-19. Average Conducted Output Power Measurements Antenna 1a – High Data Rate

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogo 57 of 420                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 57 of 430                    |



| Freq [MHz] Channel |    | Detector | Cond       | ucted Power [ | dBm]   | Conducted<br>Power Limit | Conducted<br>Power | Power Ant. Gain | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p.<br>Margin [dB] |
|--------------------|----|----------|------------|---------------|--------|--------------------------|--------------------|-----------------|--------------|--------------|-------------------------|
|                    |    |          | Antenna 3a | Antenna 1a    | Summed | [dBm]                    | Margin [dB]        | [dBi]           | []           |              | 9[]                     |
| 2412               | 1  | AVG      | 13.22      | 13.42         | 16.33  | 30.00                    | -13.67             | 3.33            | 19.66        | 36.02        | -16.36                  |
| 2417               | 2  | AVG      | 17.26      | 17.31         | 20.30  | 30.00                    | -9.70              | 3.33            | 23.63        | 36.02        | -12.39                  |
| 2422               | 3  | AVG      | 18.49      | 18.57         | 21.54  | 30.00                    | -8.46              | 3.33            | 24.87        | 36.02        | -11.15                  |
| 2427               | 4  | AVG      | 19.14      | 19.26         | 22.21  | 30.00                    | -7.79              | 3.33            | 25.54        | 36.02        | -10.48                  |
| 2432               | 5  | AVG      | 19.81      | 19.78         | 22.80  | 30.00                    | -7.20              | 3.33            | 26.13        | 36.02        | -9.89                   |
| 2437               | 6  | AVG      | 20.33      | 20.20         | 23.27  | 30.00                    | -6.73              | 3.33            | 26.60        | 36.02        | -9.42                   |
| 2442               | 7  | AVG      | 18.78      | 18.70         | 21.75  | 30.00                    | -8.25              | 3.33            | 25.08        | 36.02        | -10.94                  |
| 2447               | 8  | AVG      | 16.76      | 16.74         | 19.76  | 30.00                    | -10.24             | 3.33            | 23.09        | 36.02        | -12.93                  |
| 2452               | 9  | AVG      | 16.82      | 16.61         | 19.73  | 30.00                    | -10.27             | 3.33            | 23.06        | 36.02        | -12.96                  |
| 2457               | 10 | AVG      | 16.28      | 16.33         | 19.31  | 30.00                    | -10.69             | 3.33            | 22.64        | 36.02        | -13.38                  |
| 2462               | 11 | AVG      | 14.15      | 14.14         | 17.16  | 30.00                    | -12.84             | 3.33            | 20.49        | 36.02        | -15.53                  |
| 2467               | 12 | AVG      | 12.04      | 12.24         | 15.15  | 30.00                    | -14.85             | 3.33            | 18.48        | 36.02        | -17.54                  |
| 2472               | 13 | AVG      | 7.80       | 7.71          | 10.76  | 30.00                    | -19.24             | 3.33            | 14.09        | 36.02        | -21.93                  |

Table 7-20. Average Conducted Output Power Measurements CDD (802.11g) - High Data Rate

| Freq [MHz] | Channel | Detector | Conducted Power [dBm] |            |        | Conducted<br>Power Limit |             | Directional<br>Ant. Gain | Max e.i.r.p.<br>[dBm] | Max e.i.r.p. | e.i.r.p.<br>Margin [dB] |
|------------|---------|----------|-----------------------|------------|--------|--------------------------|-------------|--------------------------|-----------------------|--------------|-------------------------|
|            |         |          | Antenna 3a            | Antenna 1a | Summed | [dBm]                    | Margin [dB] | [dBi]                    | []                    |              | 9[]                     |
| 2412       | 1       | AVG      | 13.23                 | 13.11      | 16.18  | 30.00                    | -13.82      | 3.33                     | 19.51                 | 36.02        | -16.51                  |
| 2417       | 2       | AVG      | 17.24                 | 17.24      | 20.25  | 30.00                    | -9.75       | 3.33                     | 23.58                 | 36.02        | -12.44                  |
| 2422       | 3       | AVG      | 18.68                 | 18.63      | 21.66  | 30.00                    | -8.34       | 3.33                     | 24.99                 | 36.02        | -11.03                  |
| 2427       | 4       | AVG      | 19.13                 | 19.12      | 22.14  | 30.00                    | -7.86       | 3.33                     | 25.47                 | 36.02        | -10.55                  |
| 2432       | 5       | AVG      | 19.92                 | 19.63      | 22.79  | 30.00                    | -7.21       | 3.33                     | 26.12                 | 36.02        | -9.90                   |
| 2437       | 6       | AVG      | 20.25                 | 20.42      | 23.35  | 30.00                    | -6.65       | 3.33                     | 26.68                 | 36.02        | -9.34                   |
| 2442       | 7       | AVG      | 18.95                 | 18.66      | 21.82  | 30.00                    | -8.18       | 3.33                     | 25.15                 | 36.02        | -10.87                  |
| 2447       | 8       | AVG      | 16.69                 | 16.93      | 19.82  | 30.00                    | -10.18      | 3.33                     | 23.15                 | 36.02        | -12.87                  |
| 2452       | 9       | AVG      | 16.96                 | 16.82      | 19.90  | 30.00                    | -10.10      | 3.33                     | 23.23                 | 36.02        | -12.79                  |
| 2457       | 10      | AVG      | 16.47                 | 16.31      | 19.40  | 30.00                    | -10.60      | 3.33                     | 22.73                 | 36.02        | -13.29                  |
| 2462       | 11      | AVG      | 14.32                 | 14.18      | 17.26  | 30.00                    | -12.74      | 3.33                     | 20.59                 | 36.02        | -15.43                  |
| 2467       | 12      | AVG      | 12.21                 | 12.21      | 15.22  | 30.00                    | -14.78      | 3.33                     | 18.55                 | 36.02        | -17.47                  |
| 2472       | 13      | AVG      | 7.99                  | 7.85       | 10.93  | 30.00                    | -19.07      | 3.33                     | 14.26                 | 36.02        | -21.76                  |

Table 7-21. Average Conducted Output Power Measurements CDD (802.11n) - High Data Rate

| Freq [MHz] | Channel | Detector | Cond       | lucted Power [ | dBm]   | Conducted<br>Power Limit | Conducted<br>Power | Directional Ant. Gain [dBm] |       | Max e.i.r.p. | e.i.r.p.<br>Margin [dB] |
|------------|---------|----------|------------|----------------|--------|--------------------------|--------------------|-----------------------------|-------|--------------|-------------------------|
|            |         |          | Antenna 3a | Antenna 1a     | Summed | [dBm]                    | Margin [dB]        | [dBi]                       | []    |              |                         |
| 2412       | 1       | AVG      | 12.85      | 12.61          | 15.74  | 30.00                    | -14.26             | 3.33                        | 19.07 | 36.02        | -16.95                  |
| 2417       | 2       | AVG      | 16.18      | 16.47          | 19.34  | 30.00                    | -10.66             | 3.33                        | 22.67 | 36.02        | -13.35                  |
| 2422       | 3       | AVG      | 18.49      | 18.22          | 21.37  | 30.00                    | -8.63              | 3.33                        | 24.70 | 36.02        | -11.32                  |
| 2427       | 4       | AVG      | 19.10      | 19.27          | 22.20  | 30.00                    | -7.80              | 3.33                        | 25.53 | 36.02        | -10.49                  |
| 2432       | 5       | AVG      | 19.82      | 19.81          | 22.82  | 30.00                    | -7.18              | 3.33                        | 26.15 | 36.02        | -9.87                   |
| 2437       | 6       | AVG      | 20.39      | 20.25          | 23.33  | 30.00                    | -6.67              | 3.33                        | 26.66 | 36.02        | -9.36                   |
| 2442       | 7       | AVG      | 18.75      | 18.89          | 21.83  | 30.00                    | -8.17              | 3.33                        | 25.16 | 36.02        | -10.86                  |
| 2447       | 8       | AVG      | 16.61      | 16.99          | 19.81  | 30.00                    | -10.19             | 3.33                        | 23.14 | 36.02        | -12.88                  |
| 2452       | 9       | AVG      | 16.41      | 16.16          | 19.30  | 30.00                    | -10.70             | 3.33                        | 22.63 | 36.02        | -13.39                  |
| 2457       | 10      | AVG      | 15.75      | 15.85          | 18.81  | 30.00                    | -11.19             | 3.33                        | 22.14 | 36.02        | -13.88                  |
| 2462       | 11      | AVG      | 13.96      | 13.74          | 16.86  | 30.00                    | -13.14             | 3.33                        | 20.19 | 36.02        | -15.83                  |
| 2467       | 12      | AVG      | 11.98      | 12.04          | 15.02  | 30.00                    | -14.98             | 3.33                        | 18.35 | 36.02        | -17.67                  |

Table 7-22. Average Conducted Output Power Measurements CDD (802.11ax - SU) - High Data Rate

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT (CERTIFICATION) | Approved by:<br>Technical Manager |
|------------------------------------|-----------------------|------------------------------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                          | Dags E0 of 420                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                      | Page 58 of 430                    |



# **7.3.2** Peak Output Power Measurement §15.247(b.3); RSS-247 [5.4]

## Low Rate

| Freq [MHz] Chann | Channel | Detector | Detector Conducted Power [dBm] |         |               | Conducted<br>Power Limit | Conducted<br>Power | Ant. Gain | Max e.i.r.p. | Max e.i.r.p.<br>Limit [dBm] | e.i.r.p.<br>Margin [dB] |
|------------------|---------|----------|--------------------------------|---------|---------------|--------------------------|--------------------|-----------|--------------|-----------------------------|-------------------------|
|                  |         |          | 802.11g                        | 802.11n | 802.11ax (SU) | [dBm]                    | Margin [dB]        | []        | [4.2]        |                             |                         |
| 2412             | 1       | PEAK     | 18.34                          | 18.42   | 17.98         | 30.00                    | -11.58             | -0.30     | 18.12        | 36.02                       | -17.90                  |
| 2417             | 2       | PEAK     | 23.13                          | 23.14   | 21.66         | 30.00                    | -6.86              | -0.30     | 22.84        | 36.02                       | -13.18                  |
| 2422             | 3       | PEAK     | 23.58                          | 23.48   | 23.62         | 30.00                    | -6.38              | -0.30     | 23.32        | 36.02                       | -12.70                  |
| 2427             | 4       | PEAK     | 26.59                          | 26.66   | 26.48         | 30.00                    | -3.34              | -0.30     | 26.36        | 36.02                       | -9.66                   |
| 2432             | 5       | PEAK     | 26.71                          | 26.85   | 26.90         | 30.00                    | -3.10              | -0.30     | 26.60        | 36.02                       | -9.42                   |
| 2437             | 6       | PEAK     | 26.91                          | 27.07   | 26.93         | 30.00                    | -2.93              | -0.30     | 26.77        | 36.02                       | -9.25                   |
| 2442             | 7       | PEAK     | 26.06                          | 26.36   | 26.18         | 30.00                    | -3.64              | -0.30     | 26.06        | 36.02                       | -9.96                   |
| 2447             | 8       | PEAK     | 26.03                          | 26.09   | 25.75         | 30.00                    | -3.91              | -0.30     | 25.79        | 36.02                       | -10.23                  |
| 2452             | 9       | PEAK     | 23.75                          | 23.63   | 23.27         | 30.00                    | -6.25              | -0.30     | 23.45        | 36.02                       | -12.57                  |
| 2457             | 10      | PEAK     | 23.09                          | 22.99   | 21.67         | 30.00                    | -6.91              | -0.30     | 22.79        | 36.02                       | -13.23                  |
| 2462             | 11      | PEAK     | 19.94                          | 19.87   | 19.60         | 30.00                    | -10.07             | -0.30     | 19.64        | 36.02                       | -16.39                  |
| 2467             | 12      | PEAK     | 17.45                          | 17.70   | 17.47         | 30.00                    | -12.30             | -0.30     | 17.40        | 36.02                       | -18.62                  |
| 2472             | 13      | PEAK     | 15.71                          | 15.36   | -             | 30.00                    | -14.30             | -0.30     | 15.41        | 36.02                       | -20.62                  |

Table 7-23. Peak Conducted Output Power Measurements Antenna 3a - Low Data Rate

| Freq [MHz] Cha | Channel | Detector | Conducted Power [dBm] |         |               | Conducted<br>Power Limit | Conducted Power | Ant. Gain<br>[dBi] | Max e.i.r.p. | Max e.i.r.p.<br>Limit [dBm] | e.i.r.p.<br>Margin [dB] |
|----------------|---------|----------|-----------------------|---------|---------------|--------------------------|-----------------|--------------------|--------------|-----------------------------|-------------------------|
|                |         |          | 802.11g               | 802.11n | 802.11ax (SU) | [dBm]                    | Margin [dB]     | []                 | []           |                             | 9[]                     |
| 2412           | 1       | PEAK     | 18.29                 | 18.54   | 18.02         | 30.00                    | -11.46          | 0.90               | 19.44        | 36.02                       | -16.58                  |
| 2417           | 2       | PEAK     | 23.20                 | 23.38   | 21.68         | 30.00                    | -6.62           | 0.90               | 24.28        | 36.02                       | -11.74                  |
| 2422           | 3       | PEAK     | 23.98                 | 23.89   | 23.69         | 30.00                    | -6.02           | 0.90               | 24.88        | 36.02                       | -11.14                  |
| 2427           | 4       | PEAK     | 26.39                 | 26.54   | 26.50         | 30.00                    | -3.47           | 0.90               | 27.44        | 36.02                       | -8.59                   |
| 2432           | 5       | PEAK     | 26.46                 | 26.66   | 26.61         | 30.00                    | -3.34           | 0.90               | 27.56        | 36.02                       | -8.46                   |
| 2437           | 6       | PEAK     | 26.66                 | 26.81   | 26.85         | 30.00                    | -3.16           | 0.90               | 27.75        | 36.02                       | -8.28                   |
| 2442           | 7       | PEAK     | 25.92                 | 26.30   | 26.08         | 30.00                    | -3.71           | 0.90               | 27.20        | 36.02                       | -8.83                   |
| 2447           | 8       | PEAK     | 25.78                 | 25.97   | 25.83         | 30.00                    | -4.03           | 0.90               | 26.87        | 36.02                       | -9.15                   |
| 2452           | 9       | PEAK     | 23.71                 | 23.55   | 23.24         | 30.00                    | -6.29           | 0.90               | 24.61        | 36.02                       | -11.41                  |
| 2457           | 10      | PEAK     | 23.11                 | 22.92   | 21.34         | 30.00                    | -6.90           | 0.90               | 24.01        | 36.02                       | -12.02                  |
| 2462           | 11      | PEAK     | 19.76                 | 19.55   | 19.62         | 30.00                    | -10.25          | 0.90               | 20.66        | 36.02                       | -15.37                  |
| 2467           | 12      | PEAK     | 17.44                 | 17.36   | 17.04         | 30.00                    | -12.56          | 0.90               | 18.34        | 36.02                       | -17.68                  |
| 2472           | 13      | PEAK     | 15.61                 | 15.33   | -             | 30.00                    | -14.39          | 0.90               | 16.51        | 36.02                       | -19.51                  |

Table 7-24. Peak Conducted Output Power Measurements Antenna 1a – Low Data Rate

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogg F0 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 59 of 430                 |



| Freq [MHz] Channel I | Detector | Cond | ucted Power [ | dBm]       | Conducted<br>Power Limit | Conducted<br>Power | Directional<br>Ant. Gain | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p.<br>Margin [dB] |        |
|----------------------|----------|------|---------------|------------|--------------------------|--------------------|--------------------------|--------------|--------------|-------------------------|--------|
|                      |          |      | Antenna 3a    | Antenna 1a | Summed                   | [dBm]              | Margin [dB]              | [dBi]        |              |                         |        |
| 2412                 | 1        | PEAK | 18.01         | 17.75      | 20.89                    | 30.00              | -9.11                    | 3.33         | 24.22        | 36.02                   | -11.80 |
| 2417                 | 2        | PEAK | 22.97         | 22.94      | 25.97                    | 30.00              | -4.03                    | 3.33         | 29.30        | 36.02                   | -6.72  |
| 2422                 | 3        | PEAK | 23.09         | 23.20      | 26.16                    | 30.00              | -3.84                    | 3.33         | 29.49        | 36.02                   | -6.53  |
| 2427                 | 4        | PEAK | 26.17         | 26.13      | 29.16                    | 30.00              | -0.84                    | 3.33         | 32.49        | 36.02                   | -3.53  |
| 2432                 | 5        | PEAK | 26.54         | 26.29      | 29.43                    | 30.00              | -0.57                    | 3.33         | 32.76        | 36.02                   | -3.26  |
| 2437                 | 6        | PEAK | 26.32         | 26.47      | 29.41                    | 30.00              | -0.59                    | 3.33         | 32.74        | 36.02                   | -3.28  |
| 2442                 | 7        | PEAK | 26.05         | 25.94      | 29.01                    | 30.00              | -0.99                    | 3.33         | 32.34        | 36.02                   | -3.68  |
| 2447                 | 8        | PEAK | 24.69         | 24.51      | 27.61                    | 30.00              | -2.39                    | 3.33         | 30.94        | 36.02                   | -5.08  |
| 2452                 | 9        | PEAK | 22.83         | 22.50      | 25.68                    | 30.00              | -4.32                    | 3.33         | 29.01        | 36.02                   | -7.01  |
| 2457                 | 10       | PEAK | 22.58         | 22.67      | 25.63                    | 30.00              | -4.37                    | 3.33         | 28.96        | 36.02                   | -7.06  |
| 2462                 | 11       | PEAK | 19.92         | 19.54      | 22.74                    | 30.00              | -7.26                    | 3.33         | 26.07        | 36.02                   | -9.95  |
| 2467                 | 12       | PEAK | 17.64         | 17.41      | 20.54                    | 30.00              | -9.46                    | 3.33         | 23.87        | 36.02                   | -12.15 |
| 2472                 | 13       | PEAK | 15.48         | 15.63      | 18.57                    | 30.00              | -11.43                   | 3.33         | 21.90        | 36.02                   | -14.12 |

Table 7-25. Peak Conducted Output Power Measurements CDD (802.11g) - Low Data Rate

| Freq [MHz] | Channel | Detector | Conducted Power [dBm] |            |        | Conducted Power Limit | Conducted Power Margin [dB] | Directional<br>Ant. Gain | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p.<br>Margin [dB] |
|------------|---------|----------|-----------------------|------------|--------|-----------------------|-----------------------------|--------------------------|--------------|--------------|-------------------------|
|            |         |          | Antenna 3a            | Antenna 1a | Summed | [dBm]                 | Margin [dB]                 | [dBi]                    | []           |              |                         |
| 2412       | 1       | PEAK     | 17.76                 | 18.09      | 20.94  | 30.00                 | -9.06                       | 3.33                     | 24.27        | 36.02        | -11.75                  |
| 2417       | 2       | PEAK     | 22.70                 | 22.74      | 25.73  | 30.00                 | -4.27                       | 3.33                     | 29.06        | 36.02        | -6.96                   |
| 2422       | 3       | PEAK     | 23.27                 | 23.19      | 26.24  | 30.00                 | -3.76                       | 3.33                     | 29.57        | 36.02        | -6.45                   |
| 2427       | 4       | PEAK     | 26.43                 | 26.30      | 29.38  | 30.00                 | -0.62                       | 3.33                     | 32.71        | 36.02        | -3.31                   |
| 2432       | 5       | PEAK     | 26.39                 | 26.51      | 29.46  | 30.00                 | -0.54                       | 3.33                     | 32.79        | 36.02        | -3.23                   |
| 2437       | 6       | PEAK     | 26.37                 | 26.31      | 29.35  | 30.00                 | -0.65                       | 3.33                     | 32.68        | 36.02        | -3.34                   |
| 2442       | 7       | PEAK     | 26.31                 | 26.32      | 29.32  | 30.00                 | -0.68                       | 3.33                     | 32.65        | 36.02        | -3.37                   |
| 2447       | 8       | PEAK     | 25.08                 | 25.19      | 28.15  | 30.00                 | -1.85                       | 3.33                     | 31.48        | 36.02        | -4.54                   |
| 2452       | 9       | PEAK     | 22.89                 | 22.53      | 25.72  | 30.00                 | -4.28                       | 3.33                     | 29.05        | 36.02        | -6.97                   |
| 2457       | 10      | PEAK     | 22.57                 | 22.67      | 25.63  | 30.00                 | -4.37                       | 3.33                     | 28.96        | 36.02        | -7.06                   |
| 2462       | 11      | PEAK     | 19.77                 | 19.64      | 22.72  | 30.00                 | -7.28                       | 3.33                     | 26.05        | 36.02        | -9.97                   |
| 2467       | 12      | PEAK     | 17.49                 | 17.55      | 20.53  | 30.00                 | -9.47                       | 3.33                     | 23.86        | 36.02        | -12.16                  |
| 2472       | 13      | PEAK     | 15.66                 | 15.67      | 18.68  | 30.00                 | -11.32                      | 3.33                     | 22.01        | 36.02        | -14.01                  |

Table 7-26. Peak Conducted Output Power Measurements CDD (802.11n) - Low Data Rate

| Freq [MHz] C | Channel | Detector | Conducted Power [dBm] |            | Conducted Power Limit | Conducted Power | Directional<br>Ant. Gain | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p.<br>Margin [dB] |        |
|--------------|---------|----------|-----------------------|------------|-----------------------|-----------------|--------------------------|--------------|--------------|-------------------------|--------|
|              |         |          | Antenna 3a            | Antenna 1a | Summed                | [dBm]           | Margin [dB]              | [dBi]        | []           |                         |        |
| 2412         | 1       | PEAK     | 17.54                 | 17.79      | 20.68                 | 30.00           | -9.32                    | 3.33         | 24.01        | 36.02                   | -12.01 |
| 2417         | 2       | PEAK     | 21.83                 | 21.95      | 24.90                 | 30.00           | -5.10                    | 3.33         | 28.23        | 36.02                   | -7.79  |
| 2422         | 3       | PEAK     | 22.83                 | 23.19      | 26.03                 | 30.00           | -3.97                    | 3.33         | 29.36        | 36.02                   | -6.66  |
| 2427         | 4       | PEAK     | 26.30                 | 26.06      | 29.19                 | 30.00           | -0.81                    | 3.33         | 32.52        | 36.02                   | -3.50  |
| 2432         | 5       | PEAK     | 26.40                 | 26.42      | 29.42                 | 30.00           | -0.58                    | 3.33         | 32.75        | 36.02                   | -3.27  |
| 2437         | 6       | PEAK     | 26.31                 | 26.56      | 29.44                 | 30.00           | -0.56                    | 3.33         | 32.77        | 36.02                   | -3.25  |
| 2442         | 7       | PEAK     | 26.17                 | 25.96      | 29.08                 | 30.00           | -0.92                    | 3.33         | 32.41        | 36.02                   | -3.61  |
| 2447         | 8       | PEAK     | 24.49                 | 24.64      | 27.58                 | 30.00           | -2.42                    | 3.33         | 30.91        | 36.02                   | -5.11  |
| 2452         | 9       | PEAK     | 21.80                 | 21.76      | 24.79                 | 30.00           | -5.21                    | 3.33         | 28.12        | 36.02                   | -7.90  |
| 2457         | 10      | PEAK     | 21.15                 | 20.90      | 24.04                 | 30.00           | -5.96                    | 3.33         | 27.37        | 36.02                   | -8.65  |
| 2462         | 11      | PEAK     | 19.47                 | 19.20      | 22.35                 | 30.00           | -7.65                    | 3.33         | 25.68        | 36.02                   | -10.34 |
| 2467         | 12      | PEAK     | 17.49                 | 17.03      | 20.27                 | 30.00           | -9.73                    | 3.33         | 23.60        | 36.02                   | -12.42 |

Table 7-27. Peak Conducted Output Power Measurements CDD (802.11ax - SU) - Low Data Rate

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogo 60 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 60 of 430                 |



| Freq [MHz] Channel |    | Detector | Cond    | ducted Power | [dBm]         | Conducted<br>Power Limit | Conducted<br>Power | Ant. Gain<br>[dBi] | Max e.i.r.p. | Max e.i.r.p.<br>Limit [dBm] | e.i.r.p.<br>Margin [dB] |
|--------------------|----|----------|---------|--------------|---------------|--------------------------|--------------------|--------------------|--------------|-----------------------------|-------------------------|
|                    |    |          | 802.11g | 802.11n      | 802.11ax (SU) | [dBm]                    | Margin [dB]        | []                 | []           |                             | 3[]                     |
| 2412               | 1  | PEAK     | 20.57   | 20.30        | 19.96         | 30.00                    | -9.43              | -0.30              | 20.27        | 36.02                       | -15.75                  |
| 2417               | 2  | PEAK     | 24.58   | 24.58        | 23.77         | 30.00                    | -5.42              | -0.30              | 24.28        | 36.02                       | -11.74                  |
| 2422               | 3  | PEAK     | 25.52   | 25.39        | 25.08         | 30.00                    | -4.48              | -0.30              | 25.22        | 36.02                       | -10.80                  |
| 2427               | 4  | PEAK     | 26.86   | 26.98        | 26.99         | 30.00                    | -3.01              | -0.30              | 26.69        | 36.02                       | -9.33                   |
| 2432               | 5  | PEAK     | 27.03   | 27.28        | 27.24         | 30.00                    | -2.72              | -0.30              | 26.98        | 36.02                       | -9.04                   |
| 2437               | 6  | PEAK     | 27.31   | 27.46        | 27.42         | 30.00                    | -2.55              | -0.30              | 27.16        | 36.02                       | -8.87                   |
| 2442               | 7  | PEAK     | 26.75   | 27.00        | 26.84         | 30.00                    | -3.00              | -0.30              | 26.70        | 36.02                       | -9.32                   |
| 2447               | 8  | PEAK     | 26.53   | 26.79        | 26.40         | 30.00                    | -3.21              | -0.30              | 26.49        | 36.02                       | -9.53                   |
| 2452               | 9  | PEAK     | 24.92   | 24.55        | 24.45         | 30.00                    | -5.08              | -0.30              | 24.62        | 36.02                       | -11.40                  |
| 2457               | 10 | PEAK     | 24.55   | 24.70        | 23.34         | 30.00                    | -5.30              | -0.30              | 24.40        | 36.02                       | -11.62                  |
| 2462               | 11 | PEAK     | 21.72   | 21.69        | 21.42         | 30.00                    | -8.28              | -0.30              | 21.42        | 36.02                       | -14.60                  |
| 2467               | 12 | PEAK     | 20.24   | 19.89        | 19.84         | 30.00                    | -9.76              | -0.30              | 19.94        | 36.02                       | -16.08                  |
| 2472               | 13 | PEAK     | 17.35   | 16.79        | -             | 30.00                    | -12.65             | -0.30              | 17.05        | 36.02                       | -18.97                  |

Table 7-28. Peak Conducted Output Power Measurements Antenna 3a – Mid Data Rate

| Freq [MHz] Channel | Detector | Cond | ducted Power | [dBm]   | Conducted<br>Power Limit | Conducted<br>Power | Ant. Gain<br>[dBi] | Max e.i.r.p. | Max e.i.r.p.<br>Limit [dBm] | e.i.r.p.<br>Margin [dB] |        |
|--------------------|----------|------|--------------|---------|--------------------------|--------------------|--------------------|--------------|-----------------------------|-------------------------|--------|
|                    |          |      | 802.11g      | 802.11n | 802.11ax (SU)            | [dBm]              | Margin [dB]        |              |                             |                         | 0 1 1  |
| 2412               | 1        | PEAK | 20.64        | 20.51   | 19.95                    | 30.00              | -9.36              | 0.90         | 21.54                       | 36.02                   | -14.48 |
| 2417               | 2        | PEAK | 24.85        | 24.91   | 23.59                    | 30.00              | -5.09              | 0.90         | 25.81                       | 36.02                   | -10.21 |
| 2422               | 3        | PEAK | 25.78        | 25.55   | 25.13                    | 30.00              | -4.22              | 0.90         | 26.68                       | 36.02                   | -9.34  |
| 2427               | 4        | PEAK | 26.62        | 26.84   | 26.78                    | 30.00              | -3.16              | 0.90         | 27.74                       | 36.02                   | -8.28  |
| 2432               | 5        | PEAK | 26.79        | 26.93   | 26.89                    | 30.00              | -3.07              | 0.90         | 27.83                       | 36.02                   | -8.19  |
| 2437               | 6        | PEAK | 27.00        | 27.11   | 27.14                    | 30.00              | -2.86              | 0.90         | 28.04                       | 36.02                   | -7.98  |
| 2442               | 7        | PEAK | 26.55        | 26.79   | 26.67                    | 30.00              | -3.21              | 0.90         | 27.69                       | 36.02                   | -8.33  |
| 2447               | 8        | PEAK | 26.25        | 26.60   | 26.25                    | 30.00              | -3.40              | 0.90         | 27.50                       | 36.02                   | -8.52  |
| 2452               | 9        | PEAK | 24.71        | 24.43   | 24.39                    | 30.00              | -5.29              | 0.90         | 25.61                       | 36.02                   | -10.41 |
| 2457               | 10       | PEAK | 24.57        | 24.58   | 23.43                    | 30.00              | -5.42              | 0.90         | 25.48                       | 36.02                   | -10.54 |
| 2462               | 11       | PEAK | 21.89        | 21.40   | 21.61                    | 30.00              | -8.11              | 0.90         | 22.79                       | 36.02                   | -13.23 |
| 2467               | 12       | PEAK | 19.93        | 19.79   | 19.51                    | 30.00              | -10.08             | 0.90         | 20.83                       | 36.02                   | -15.20 |
| 2472               | 13       | PEAK | 17.43        | 17.13   | -                        | 30.00              | -12.57             | 0.90         | 18.33                       | 36.02                   | -17.69 |

Table 7-29. Peak Conducted Output Power Measurements Antenna 1a – Mid Data Rate

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT (CERTIFICATION) | Approved by:<br>Technical Manager |
|------------------------------------|-----------------------|------------------------------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                          | Dags 64 of 420                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                      | Page 61 of 430                    |



| Freq [MHz] Channel | Channel | Detector | Cond       | lucted Power [ | dBm]   | Conducted<br>Power Limit | Conducted<br>Power | Directional<br>Ant. Gain | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p.<br>Margin [dB] |
|--------------------|---------|----------|------------|----------------|--------|--------------------------|--------------------|--------------------------|--------------|--------------|-------------------------|
|                    |         |          | Antenna 3a | Antenna 1a     | Summed | [dBm]                    | Margin [dB]        | [dBi]                    |              |              | J 1. 1                  |
| 2412               | 1       | PEAK     | 20.52      | 20.33          | 23.43  | 30.00                    | -6.57              | 3.33                     | 26.76        | 36.02        | -9.26                   |
| 2417               | 2       | PEAK     | 24.56      | 24.88          | 27.73  | 30.00                    | -2.27              | 3.33                     | 31.06        | 36.02        | -4.96                   |
| 2422               | 3       | PEAK     | 25.35      | 25.29          | 28.33  | 30.00                    | -1.67              | 3.33                     | 31.66        | 36.02        | -4.36                   |
| 2427               | 4       | PEAK     | 26.38      | 26.39          | 29.39  | 30.00                    | -0.61              | 3.33                     | 32.72        | 36.02        | -3.30                   |
| 2432               | 5       | PEAK     | 26.39      | 26.58          | 29.50  | 30.00                    | -0.50              | 3.33                     | 32.83        | 36.02        | -3.19                   |
| 2437               | 6       | PEAK     | 26.40      | 26.32          | 29.37  | 30.00                    | -0.63              | 3.33                     | 32.70        | 36.02        | -3.32                   |
| 2442               | 7       | PEAK     | 26.53      | 26.41          | 29.48  | 30.00                    | -0.52              | 3.33                     | 32.81        | 36.02        | -3.21                   |
| 2447               | 8       | PEAK     | 24.80      | 24.78          | 27.80  | 30.00                    | -2.20              | 3.33                     | 31.13        | 36.02        | -4.89                   |
| 2452               | 9       | PEAK     | 24.41      | 24.11          | 27.27  | 30.00                    | -2.73              | 3.33                     | 30.60        | 36.02        | -5.42                   |
| 2457               | 10      | PEAK     | 24.16      | 24.13          | 27.15  | 30.00                    | -2.85              | 3.33                     | 30.48        | 36.02        | -5.54                   |
| 2462               | 11      | PEAK     | 22.00      | 21.69          | 24.86  | 30.00                    | -5.14              | 3.33                     | 28.19        | 36.02        | -7.83                   |
| 2467               | 12      | PEAK     | 20.23      | 19.77          | 23.01  | 30.00                    | -6.99              | 3.33                     | 26.34        | 36.02        | -9.68                   |
| 2472               | 13      | PEAK     | 17.36      | 17.22          | 20.30  | 30.00                    | -9.70              | 3.33                     | 23.63        | 36.02        | -12.39                  |

Table 7-30. Peak Conducted Output Power Measurements CDD (802.11g) - Mid Data Rate

| Freq [MHz] Ch | Channel Detector | Detector | Conducted Power [dBm] |            |        | Power Limit F | Conducted<br>Power<br>Margin [dB] | Directional<br>Ant. Gain | Max e.i.r.p. | Max e.i.r.p.<br>Limit [dBm] | e.i.r.p.<br>Margin [dB] |
|---------------|------------------|----------|-----------------------|------------|--------|---------------|-----------------------------------|--------------------------|--------------|-----------------------------|-------------------------|
|               |                  |          | Antenna 3a            | Antenna 1a | Summed | [dBm]         | Margin [dB]                       | [dBi]                    | []           |                             | 9[]                     |
| 2412          | 1                | PEAK     | 20.53                 | 20.42      | 23.49  | 30.00         | -6.51                             | 3.33                     | 26.82        | 36.02                       | -9.20                   |
| 2417          | 2                | PEAK     | 24.83                 | 24.86      | 27.85  | 30.00         | -2.15                             | 3.33                     | 31.18        | 36.02                       | -4.84                   |
| 2422          | 3                | PEAK     | 25.09                 | 25.42      | 28.26  | 30.00         | -1.74                             | 3.33                     | 31.59        | 36.02                       | -4.43                   |
| 2427          | 4                | PEAK     | 26.31                 | 26.31      | 29.32  | 30.00         | -0.68                             | 3.33                     | 32.65        | 36.02                       | -3.37                   |
| 2432          | 5                | PEAK     | 26.33                 | 26.35      | 29.35  | 30.00         | -0.65                             | 3.33                     | 32.68        | 36.02                       | -3.34                   |
| 2437          | 6                | PEAK     | 26.31                 | 26.39      | 29.36  | 30.00         | -0.64                             | 3.33                     | 32.69        | 36.02                       | -3.33                   |
| 2442          | 7                | PEAK     | 26.38                 | 26.36      | 29.38  | 30.00         | -0.62                             | 3.33                     | 32.71        | 36.02                       | -3.31                   |
| 2447          | 8                | PEAK     | 25.49                 | 25.29      | 28.40  | 30.00         | -1.60                             | 3.33                     | 31.73        | 36.02                       | -4.29                   |
| 2452          | 9                | PEAK     | 23.92                 | 24.27      | 27.11  | 30.00         | -2.89                             | 3.33                     | 30.44        | 36.02                       | -5.58                   |
| 2457          | 10               | PEAK     | 24.09                 | 24.12      | 27.12  | 30.00         | -2.88                             | 3.33                     | 30.45        | 36.02                       | -5.57                   |
| 2462          | 11               | PEAK     | 21.85                 | 21.56      | 24.71  | 30.00         | -5.29                             | 3.33                     | 28.04        | 36.02                       | -7.98                   |
| 2467          | 12               | PEAK     | 20.13                 | 19.88      | 23.02  | 30.00         | -6.98                             | 3.33                     | 26.35        | 36.02                       | -9.67                   |
| 2472          | 13               | PEAK     | 16.97                 | 17.11      | 20.05  | 30.00         | -9.95                             | 3.33                     | 23.38        | 36.02                       | -12.64                  |

Table 7-31. Peak Conducted Output Power Measurements CDD (802.11n) - Mid Data Rate

| Freq [MHz] | Channel Dete | Detector | Cond       | ucted Power [ | ted Power [dBm] |       | Conducted<br>Power | Directional<br>Ant. Gain | Max e.i.r.p. | Max e.i.r.p.   | e.i.r.p.<br>Margin [dB] |
|------------|--------------|----------|------------|---------------|-----------------|-------|--------------------|--------------------------|--------------|----------------|-------------------------|
|            |              |          | Antenna 3a | Antenna 1a    | Summed          | [dBm] | Margin [dB]        | [dBi]                    | [ubiii]      | Lillin [GDIII] | margin [db]             |
| 2412       | 1            | PEAK     | 19.19      | 19.49         | 22.35           | 30.00 | -7.65              | 3.33                     | 25.68        | 36.02          | -10.34                  |
| 2417       | 2            | PEAK     | 23.48      | 23.69         | 26.60           | 30.00 | -3.40              | 3.33                     | 29.93        | 36.02          | -6.09                   |
| 2422       | 3            | PEAK     | 25.07      | 25.25         | 28.17           | 30.00 | -1.83              | 3.33                     | 31.50        | 36.02          | -4.52                   |
| 2427       | 4            | PEAK     | 26.36      | 26.54         | 29.46           | 30.00 | -0.54              | 3.33                     | 32.79        | 36.02          | -3.23                   |
| 2432       | 5            | PEAK     | 26.35      | 26.35         | 29.36           | 30.00 | -0.64              | 3.33                     | 32.69        | 36.02          | -3.33                   |
| 2437       | 6            | PEAK     | 26.28      | 26.38         | 29.34           | 30.00 | -0.66              | 3.33                     | 32.67        | 36.02          | -3.35                   |
| 2442       | 7            | PEAK     | 26.40      | 26.58         | 29.50           | 30.00 | -0.50              | 3.33                     | 32.83        | 36.02          | -3.19                   |
| 2447       | 8            | PEAK     | 25.23      | 25.29         | 28.27           | 30.00 | -1.73              | 3.33                     | 31.60        | 36.02          | -4.42                   |
| 2452       | 9            | PEAK     | 23.48      | 23.30         | 26.40           | 30.00 | -3.60              | 3.33                     | 29.73        | 36.02          | -6.29                   |
| 2457       | 10           | PEAK     | 23.44      | 23.47         | 26.46           | 30.00 | -3.54              | 3.33                     | 29.79        | 36.02          | -6.23                   |
| 2462       | 11           | PEAK     | 21.43      | 21.61         | 24.53           | 30.00 | -5.47              | 3.33                     | 27.86        | 36.02          | -8.16                   |
| 2467       | 12           | PEAK     | 19.70      | 19.40         | 22.57           | 30.00 | -7.43              | 3.33                     | 25.90        | 36.02          | -10.12                  |

Table 7-32. Peak Conducted Output Power Measurements CDD (802.11ax - SU) - Mid Data Rate

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | Approved by: Technical Manager |                |
|------------------------------------|-----------------------|--------------------------------|----------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                      | Dogo 60 of 400 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                  | Page 62 of 430 |



| Freq [MHz] | Freq [MHz] Channel |      |         | Conducted | Power [dBm] |               | Conducted<br>Power Limit | Conducted<br>Power | Ant. Gain<br>[dBi] | Max e.i.r.p. | Max e.i.r.p.<br>Limit [dBm] | e.i.r.p.<br>Margin [dB] |
|------------|--------------------|------|---------|-----------|-------------|---------------|--------------------------|--------------------|--------------------|--------------|-----------------------------|-------------------------|
|            |                    |      | 802.11b | 802.11g   | 802.11n     | 802.11ax (SU) | [dBm]                    | Margin [dB]        | []                 | []           |                             | 9 []                    |
| 2412       | 1                  | PEAK | 24.19   | 23.87     | 23.33       | 22.89         | 30.00                    | -5.81              | -0.30              | 23.89        | 36.02                       | -12.13                  |
| 2417       | 2                  | PEAK | 24.09   | 26.57     | 26.46       | 25.93         | 30.00                    | -3.43              | -0.30              | 26.27        | 36.02                       | -9.75                   |
| 2422       | 3                  | PEAK | 24.02   | 27.03     | 26.97       | 26.99         | 30.00                    | -2.97              | -0.30              | 26.73        | 36.02                       | -9.29                   |
| 2427       | 4                  | PEAK | 24.15   | 27.37     | 27.36       | 27.26         | 30.00                    | -2.64              | -0.30              | 27.07        | 36.02                       | -8.96                   |
| 2432       | 5                  | PEAK | 23.79   | 27.55     | 27.55       | 27.56         | 30.00                    | -2.44              | -0.30              | 27.26        | 36.02                       | -8.76                   |
| 2437       | 6                  | PEAK | 23.82   | 27.64     | 27.61       | 27.59         | 30.00                    | -2.36              | -0.30              | 27.34        | 36.02                       | -8.68                   |
| 2442       | 7                  | PEAK | 23.95   | 27.42     | 27.34       | 27.39         | 30.00                    | -2.58              | -0.30              | 27.12        | 36.02                       | -8.90                   |
| 2447       | 8                  | PEAK | 24.18   | 27.01     | 27.02       | 26.83         | 30.00                    | -2.98              | -0.30              | 26.72        | 36.02                       | -9.30                   |
| 2452       | 9                  | PEAK | 23.81   | 26.90     | 26.73       | 26.52         | 30.00                    | -3.10              | -0.30              | 26.60        | 36.02                       | -9.42                   |
| 2457       | 10                 | PEAK | 23.97   | 26.11     | 26.05       | 25.78         | 30.00                    | -3.89              | -0.30              | 25.81        | 36.02                       | -10.21                  |
| 2462       | 11                 | PEAK | 23.93   | 24.45     | 24.68       | 23.98         | 30.00                    | -5.32              | -0.30              | 24.38        | 36.02                       | -11.64                  |
| 2467       | 12                 | PEAK | 22.49   | 22.41     | 22.27       | 22.39         | 30.00                    | -7.51              | -0.30              | 22.19        | 36.02                       | -13.83                  |
| 2472       | 13                 | PEAK | 19.28   | 18.06     | 17.88       | -             | 30.00                    | -10.72             | -0.30              | 18.98        | 36.02                       | -17.04                  |

Table 7-33. Peak Conducted Output Power Measurements Antenna 3a - High Data Rate

| Freq [MHz] | Channel | Detector |         | Conducted | Power [dBm] |               | Conducted<br>Power Limit | Conducted<br>Power | Ant. Gain<br>[dBi] | Max e.i.r.p. | Max e.i.r.p.<br>Limit [dBm] | e.i.r.p.<br>Margin [dB] |
|------------|---------|----------|---------|-----------|-------------|---------------|--------------------------|--------------------|--------------------|--------------|-----------------------------|-------------------------|
|            |         |          | 802.11b | 802.11g   | 802.11n     | 802.11ax (SU) | [dBm]                    | Margin [dB]        |                    |              |                             |                         |
| 2412       | 1       | PEAK     | 24.04   | 24.13     | 23.56       | 22.86         | 30.00                    | -5.87              | 0.90               | 25.03        | 36.02                       | -10.99                  |
| 2417       | 2       | PEAK     | 23.98   | 26.49     | 26.43       | 25.91         | 30.00                    | -3.51              | 0.90               | 27.39        | 36.02                       | -8.63                   |
| 2422       | 3       | PEAK     | 24.05   | 26.90     | 26.86       | 26.79         | 30.00                    | -3.10              | 0.90               | 27.80        | 36.02                       | -8.22                   |
| 2427       | 4       | PEAK     | 23.77   | 27.09     | 27.06       | 26.99         | 30.00                    | -2.91              | 0.90               | 27.99        | 36.02                       | -8.03                   |
| 2432       | 5       | PEAK     | 24.04   | 27.26     | 27.23       | 27.18         | 30.00                    | -2.74              | 0.90               | 28.16        | 36.02                       | -7.86                   |
| 2437       | 6       | PEAK     | 24.09   | 27.24     | 27.22       | 27.22         | 30.00                    | -2.76              | 0.90               | 28.14        | 36.02                       | -7.88                   |
| 2442       | 7       | PEAK     | 24.05   | 27.07     | 27.01       | 27.12         | 30.00                    | -2.88              | 0.90               | 28.02        | 36.02                       | -8.00                   |
| 2447       | 8       | PEAK     | 23.88   | 26.92     | 26.77       | 26.63         | 30.00                    | -3.08              | 0.90               | 27.82        | 36.02                       | -8.20                   |
| 2452       | 9       | PEAK     | 24.07   | 26.62     | 26.61       | 26.33         | 30.00                    | -3.38              | 0.90               | 27.52        | 36.02                       | -8.50                   |
| 2457       | 10      | PEAK     | 24.14   | 26.02     | 26.07       | 25.89         | 30.00                    | -3.93              | 0.90               | 26.97        | 36.02                       | -9.05                   |
| 2462       | 11      | PEAK     | 23.99   | 24.58     | 24.38       | 23.78         | 30.00                    | -5.42              | 0.90               | 25.48        | 36.02                       | -10.54                  |
| 2467       | 12      | PEAK     | 22.48   | 22.66     | 22.51       | 22.65         | 30.00                    | -7.34              | 0.90               | 23.56        | 36.02                       | -12.46                  |
| 2472       | 13      | PEAK     | 19.27   | 17.98     | 18.23       | -             | 30.00                    | -10.73             | 0.90               | 20.17        | 36.02                       | -15.85                  |

Table 7-34. Peak Conducted Output Power Measurements Antenna 1a - High Data Rate

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | Approved by:<br>Technical Manager |                |
|------------------------------------|-----------------------|-----------------------------------|----------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                         | Dags 62 of 420 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                     | Page 63 of 430 |



| Freq [MHz] | Freq [MHz] Channel De |      | Detector   |            | dBm]   | Conducted Power Limit |             | Directional<br>Ant. Gain | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p.<br>Margin [dB] |
|------------|-----------------------|------|------------|------------|--------|-----------------------|-------------|--------------------------|--------------|--------------|-------------------------|
|            |                       |      | Antenna 3a | Antenna 1a | Summed | [dBm]                 | Margin [dB] | [dBi]                    | []           |              | 9[]                     |
| 2412       | 1                     | PEAK | 23.71      | 23.97      | 26.85  | 30.00                 | -3.15       | 3.33                     | 30.18        | 36.02        | -5.84                   |
| 2417       | 2                     | PEAK | 26.53      | 26.45      | 29.50  | 30.00                 | -0.50       | 3.33                     | 32.83        | 36.02        | -3.19                   |
| 2422       | 3                     | PEAK | 26.31      | 26.32      | 29.32  | 30.00                 | -0.68       | 3.33                     | 32.65        | 36.02        | -3.37                   |
| 2427       | 4                     | PEAK | 26.20      | 26.37      | 29.30  | 30.00                 | -0.70       | 3.33                     | 32.63        | 36.02        | -3.39                   |
| 2432       | 5                     | PEAK | 26.42      | 26.40      | 29.42  | 30.00                 | -0.58       | 3.33                     | 32.75        | 36.02        | -3.27                   |
| 2437       | 6                     | PEAK | 26.57      | 26.18      | 29.39  | 30.00                 | -0.61       | 3.33                     | 32.72        | 36.02        | -3.30                   |
| 2442       | 7                     | PEAK | 26.24      | 26.35      | 29.30  | 30.00                 | -0.70       | 3.33                     | 32.63        | 36.02        | -3.39                   |
| 2447       | 8                     | PEAK | 26.39      | 26.00      | 29.21  | 30.00                 | -0.79       | 3.33                     | 32.54        | 36.02        | -3.48                   |
| 2452       | 9                     | PEAK | 26.43      | 26.18      | 29.32  | 30.00                 | -0.68       | 3.33                     | 32.65        | 36.02        | -3.37                   |
| 2457       | 10                    | PEAK | 26.10      | 25.97      | 29.04  | 30.00                 | -0.96       | 3.33                     | 32.37        | 36.02        | -3.65                   |
| 2462       | 11                    | PEAK | 24.50      | 24.43      | 27.47  | 30.00                 | -2.53       | 3.33                     | 30.80        | 36.02        | -5.22                   |
| 2467       | 12                    | PEAK | 22.45      | 22.59      | 25.53  | 30.00                 | -4.47       | 3.33                     | 28.86        | 36.02        | -7.16                   |
| 2472       | 13                    | PEAK | 18.13      | 18.09      | 21.12  | 30.00                 | -8.88       | 3.33                     | 24.45        | 36.02        | -11.57                  |

Table 7-35. Peak Conducted Output Power Measurements CDD (802.11g) - High Data Rate

| Freq [MHz] | Channel Detector | Detector | Conducted Power [dBm] |            |        | Power Limit F | Conducted<br>Power | Directional<br>Ant. Gain | Max e.i.r.p. | Max e.i.r.p. | e.i.r.p.<br>Margin [dB] |
|------------|------------------|----------|-----------------------|------------|--------|---------------|--------------------|--------------------------|--------------|--------------|-------------------------|
|            |                  |          | Antenna 3a            | Antenna 1a | Summed | [dBm]         | Margin [dB]        | [dBi]                    |              |              |                         |
| 2412       | 1                | PEAK     | 23.79                 | 23.63      | 26.72  | 30.00         | -3.28              | 3.33                     | 30.05        | 36.02        | -5.97                   |
| 2417       | 2                | PEAK     | 26.30                 | 26.51      | 29.42  | 30.00         | -0.58              | 3.33                     | 32.75        | 36.02        | -3.27                   |
| 2422       | 3                | PEAK     | 26.34                 | 26.38      | 29.37  | 30.00         | -0.63              | 3.33                     | 32.70        | 36.02        | -3.32                   |
| 2427       | 4                | PEAK     | 26.37                 | 26.38      | 29.39  | 30.00         | -0.61              | 3.33                     | 32.72        | 36.02        | -3.30                   |
| 2432       | 5                | PEAK     | 26.42                 | 26.37      | 29.40  | 30.00         | -0.60              | 3.33                     | 32.73        | 36.02        | -3.29                   |
| 2437       | 6                | PEAK     | 26.54                 | 26.24      | 29.40  | 30.00         | -0.60              | 3.33                     | 32.73        | 36.02        | -3.29                   |
| 2442       | 7                | PEAK     | 26.27                 | 26.33      | 29.31  | 30.00         | -0.69              | 3.33                     | 32.64        | 36.02        | -3.38                   |
| 2447       | 8                | PEAK     | 26.17                 | 26.64      | 29.42  | 30.00         | -0.58              | 3.33                     | 32.75        | 36.02        | -3.27                   |
| 2452       | 9                | PEAK     | 26.48                 | 26.30      | 29.40  | 30.00         | -0.60              | 3.33                     | 32.73        | 36.02        | -3.29                   |
| 2457       | 10               | PEAK     | 26.20                 | 26.06      | 29.14  | 30.00         | -0.86              | 3.33                     | 32.47        | 36.02        | -3.55                   |
| 2462       | 11               | PEAK     | 24.76                 | 24.60      | 27.69  | 30.00         | -2.31              | 3.33                     | 31.02        | 36.02        | -5.00                   |
| 2467       | 12               | PEAK     | 22.76                 | 22.74      | 25.76  | 30.00         | -4.24              | 3.33                     | 29.09        | 36.02        | -6.93                   |
| 2472       | 13               | PEAK     | 18.29                 | 18.32      | 21.31  | 30.00         | -8.69              | 3.33                     | 24.64        | 36.02        | -11.38                  |

Table 7-36. Peak Conducted Output Power Measurements CDD (802.11n) - High Data Rate

| Freq [MHz] | Channel | Detector | Cond       | ucted Power [ | dBm]   | Power Limit Power | Conducted<br>Power | Directional<br>Ant. Gain | Max e.i.r.p. | Max e.i.r.p.<br>Limit [dBm] | e.i.r.p.<br>Margin [dB] |
|------------|---------|----------|------------|---------------|--------|-------------------|--------------------|--------------------------|--------------|-----------------------------|-------------------------|
|            |         |          | Antenna 3a | Antenna 1a    | Summed | [dBm]             | Margin [dB]        | [dBi]                    | []           |                             |                         |
| 2412       | 1       | PEAK     | 23.31      | 23.01         | 26.17  | 30.00             | -3.83              | 3.33                     | 29.50        | 36.02                       | -6.52                   |
| 2417       | 2       | PEAK     | 25.94      | 26.10         | 29.03  | 30.00             | -0.97              | 3.33                     | 32.36        | 36.02                       | -3.66                   |
| 2422       | 3       | PEAK     | 26.32      | 26.37         | 29.35  | 30.00             | -0.65              | 3.33                     | 32.68        | 36.02                       | -3.34                   |
| 2427       | 4       | PEAK     | 26.23      | 26.36         | 29.31  | 30.00             | -0.69              | 3.33                     | 32.64        | 36.02                       | -3.38                   |
| 2432       | 5       | PEAK     | 26.45      | 26.35         | 29.41  | 30.00             | -0.59              | 3.33                     | 32.74        | 36.02                       | -3.28                   |
| 2437       | 6       | PEAK     | 26.56      | 26.19         | 29.39  | 30.00             | -0.61              | 3.33                     | 32.72        | 36.02                       | -3.30                   |
| 2442       | 7       | PEAK     | 26.21      | 26.38         | 29.31  | 30.00             | -0.69              | 3.33                     | 32.64        | 36.02                       | -3.38                   |
| 2447       | 8       | PEAK     | 26.32      | 26.34         | 29.34  | 30.00             | -0.66              | 3.33                     | 32.67        | 36.02                       | -3.35                   |
| 2452       | 9       | PEAK     | 26.15      | 25.93         | 29.05  | 30.00             | -0.95              | 3.33                     | 32.38        | 36.02                       | -3.64                   |
| 2457       | 10      | PEAK     | 25.72      | 25.67         | 28.70  | 30.00             | -1.30              | 3.33                     | 32.03        | 36.02                       | -3.99                   |
| 2462       | 11      | PEAK     | 24.27      | 23.82         | 27.06  | 30.00             | -2.94              | 3.33                     | 30.39        | 36.02                       | -5.63                   |
| 2467       | 12      | PEAK     | 22.36      | 22.44         | 25.41  | 30.00             | -4.59              | 3.33                     | 28.74        | 36.02                       | -7.28                   |

Table 7-37. Peak Conducted Output Power Measurements CDD (802.11ax - SU) - High Data Rate

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | Approved by:<br>Technical Manager |                |
|------------------------------------|-----------------------|-----------------------------------|----------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                         | Dogo 64 of 420 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                     | Page 64 of 430 |



#### Note:

Per ANSI C63.10-2020 and KDB 662911 D01 v02r01 Section E)1), the conducted powers at Antenna 3a and Antenna 1a were first measured separately during CDD transmission as shown in the section above. The measured values were then summed in linear power units then converted back to dBm.

Per ANSI C63.10-2020 Section 14.6.3. the directional gain is calculated using the following formula, where GN is the gain of the nth antenna and N<sub>ANT</sub>, the total number of antennas used.

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

## Sample CDD Calculation:

At 2412MHz the average conducted output power was measured to be 13.37 dBm for Antenna 3a and 13.03 dBm for Antenna 1a.

$$(13.37 \text{ dBm} + 13.03 \text{ dBm}) = (21.727 \text{ mW} + 20.091 \text{ mW}) = 41.818 \text{ mW} = 16.21 \text{ dBm}$$

## Sample e.i.r.p. Calculation:

At 2412MHz the average conducted output power was measured to be 16.21 dBm with directional gain of 3.33 dBi.

$$16.21 \text{ dBm} + 3.33 \text{ dBi} = 19.54 \text{ dBm}$$

| FCC ID: BCGA2995<br>IC: 579C-A2995        | element     | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|---|-------------|---------------------------------------|--------------------------------|
| Test Report S/N:                          | Test Dates: | EUT Type:                             | Dogo 65 of 420                 |
| 1C2405200018-14.BCG 5/20/2024 - 7/12/2024 |             | Tablet Device                         | Page 65 of 430                 |



## 7.4 Power Spectral Density §15.247(e); RSS-247 [5.2]

## **Test Overview and Limit**

The peak power density is measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated and the worst case configuration results are reported in this section.

The maximum permissible power spectral density is 8 dBm in any 3 kHz band.

## **Test Procedure Used**

ANSI C63.10-2020 – Subclause 11.10.2 Method PKPSD KDB 558074 D01 v05r02 – Section 8.4 DTS Maximum Power Spectral Density level in the fundamental emission ANSI C63.10-2020 – Subclause 14.3.2.2 Measure-and-Sum Technique KDB 662911 D01 v02r01 – Section E)2) Measure-and-Sum Technique

## **Test Settings**

- 1. Analyzer was set to the center frequency of the DTS channel under investigation
- Span > 1.5 times the DTS channel bandwidth
- 3. RBW = 3kHz
- 4. VBW = 1MHz
- 5. Detector = peak
- Sweep time = auto couple
- 7. Trace mode = max hold
- 8. Trace was allowed to stabilize

## **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**

The data rates have been classified into three different groups: low data rate, middle data rate, and high data rate. All three data rate groups have been investigated and only the worst data rate per group is reported.

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Daga 66 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 66 of 430                 |



## 7.4.1 Antenna 3a Power Spectral Density Measurements

| Frequency<br>[MHz] | Channel<br>No. | 802.11<br>MODE | Data Rate [Mbps] | Measured Power<br>Density<br>[dBm/3kHz] | Max Power<br>Density<br>[dBm/3kHz] | Margin<br>[dB] | Pass/Fail |
|--------------------|----------------|----------------|------------------|---|------------------------------------|----------------|-----------|
| 2412               | 1              | g              | 12               | -8.79                                   | 8.00                               | -16.79         | Pass      |
| 2437               | 6              | g              | 12               | -1.22                                   | 8.00                               | -9.22          | Pass      |
| 2462               | 11             | g              | 12               | -7.43                                   | 8.00                               | -15.43         | Pass      |
| 2412               | 1              | n              | 19.5/21.7 (MCS2) | -9.30                                   | 8.00                               | -17.30         | Pass      |
| 2437               | 6              | n              | 19.5/21.7 (MCS2) | -2.34                                   | 8.00                               | -10.34         | Pass      |
| 2462               | 11             | n              | 19.5/21.7 (MCS2) | -8.63                                   | 8.00                               | -16.63         | Pass      |
| 2412               | 1              | ax (SU)        | 24/25.8 (MCS2)   | -10.19                                  | 8.00                               | -18.19         | Pass      |
| 2437               | 6              | ax (SU)        | 24/25.8 (MCS2)   | -4.10                                   | 8.00                               | -12.10         | Pass      |
| 2462               | 11             | ax (SU)        | 24/25.8 (MCS2)   | -10.11                                  | 8.00                               | -18.11         | Pass      |

Table 7-38. Conducted Power Density Measurements Antenna 3a (Low Data Rate)

| Frequency<br>[MHz] | Channel<br>No. | 802.11<br>MODE | Data Rate [Mbps] | Measured Power Density [dBm/3kHz] | Max Power<br>Density<br>[dBm/3kHz] | Margin<br>[dB] | Pass/Fail |
|--------------------|----------------|----------------|------------------|-----------------------------------|------------------------------------|----------------|-----------|
| 2412               | 1              | g              | 24               | -9.46                             | 8.00                               | -17.46         | Pass      |
| 2437               | 6              | g              | 24               | -1.95                             | 8.00                               | -9.95          | Pass      |
| 2462               | 11             | g              | 24               | -8.38                             | 8.00                               | -16.38         | Pass      |
| 2412               | 1              | n              | 39/43.3 (MCS4)   | -10.02                            | 8.00                               | -18.02         | Pass      |
| 2437               | 6              | n              | 39/43.3 (MCS4)   | -2.12                             | 8.00                               | -10.12         | Pass      |
| 2462               | 11             | n              | 39/43.3 (MCS4)   | -8.23                             | 8.00                               | -16.23         | Pass      |
| 2412               | 1              | ax (SU)        | 49/51.6 (MCS4)   | -10.69                            | 8.00                               | -18.69         | Pass      |
| 2437               | 6              | ax (SU)        | 49/51.6 (MCS4)   | -3.14                             | 8.00                               | -11.14         | Pass      |
| 2462               | 11             | ax (SU)        | 49/51.6 (MCS4)   | -9.71                             | 8.00                               | -17.71         | Pass      |

Table 7-39. Conducted Power Density Measurements Antenna 3a (Mid Data Rate)

| Frequency<br>[MHz] | Channel<br>No. | 802.11<br>MODE | Data Rate [Mbps] | Measured Power<br>Density<br>[dBm/3kHz] | Max Power<br>Density<br>[dBm/3kHz] | Margin<br>[dB] | Pass/Fail |
|--------------------|----------------|----------------|------------------|---|------------------------------------|----------------|-----------|
| 2412               | 1              | b              | 11               | -1.23                                   | 8.00                               | -9.23          | Pass      |
| 2437               | 6              | b              | 11               | -1.47                                   | 8.00                               | -9.47          | Pass      |
| 2462               | 11             | b              | 11               | -1.40                                   | 8.00                               | -9.40          | Pass      |
| 2412               | 1              | gg             | 54               | -10.67                                  | 8.00                               | -18.67         | Pass      |
| 2437               | 6              | g              | 54               | -3.03                                   | 8.00                               | -11.03         | Pass      |
| 2462               | 11             | g              | 54               | -9.52                                   | 8.00                               | -17.52         | Pass      |
| 2412               | 1              | n              | 65/72.2 (MCS7)   | -10.08                                  | 8.00                               | -18.08         | Pass      |
| 2437               | 6              | n              | 65/72.2 (MCS7)   | -3.00                                   | 8.00                               | -11.00         | Pass      |
| 2462               | 11             | n              | 65/72.2 (MCS7)   | -9.31                                   | 8.00                               | -17.31         | Pass      |
| 2412               | 1              | ax (SU)        | 81/86 (MCS9)     | -10.71                                  | 8.00                               | -18.71         | Pass      |
| 2437               | 6              | ax (SU)        | 81/86 (MCS9)     | -3.77                                   | 8.00                               | -11.77         | Pass      |
| 2462               | 11             | ax (SU)        | 81/86 (MCS9)     | -9.64                                   | 8.00                               | -17.64         | Pass      |

Table 7-40. Conducted Power Density Measurements Antenna 3a (High Data Rate)

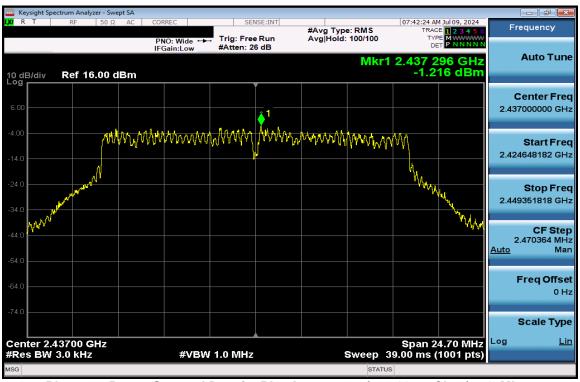
| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dags 67 of 420                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 67 of 430                    |



## Low Rate



Plot 7-61. Power Spectral Density Plot Antenna 3a (802.11g - Ch. 1) - 12Mbps



Plot 7-62. Power Spectral Density Plot Antenna 3a (802.11g - Ch. 6) - 12Mbps

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dags 60 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 68 of 430                 |





Plot 7-63. Power Spectral Density Plot Antenna 3a (802.11g - Ch. 11) - 12Mbps



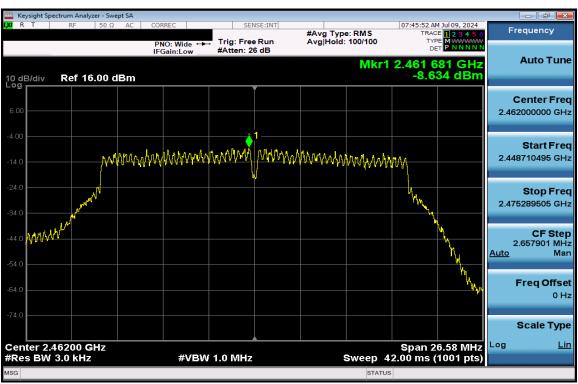
Plot 7-64. Power Spectral Density Plot Antenna 3a (802.11n (2.4GHz) - Ch. 1) - MCS2

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogo 60 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 69 of 430                 |





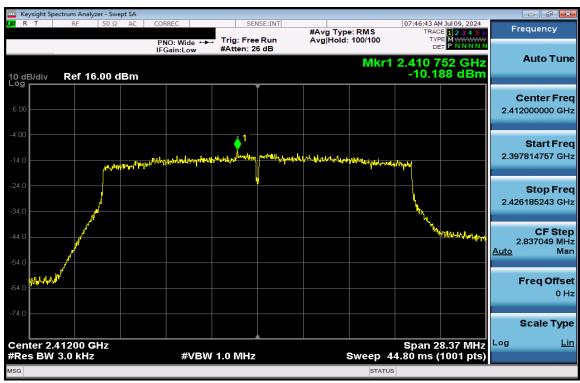
Plot 7-65. Power Spectral Density Plot Antenna 3a (802.11n (2.4GHz) - Ch. 6) - MCS2



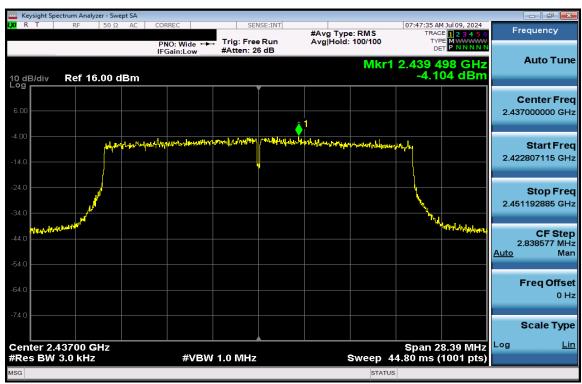
Plot 7-66. Power Spectral Density Plot Antenna 3a (802.11n (2.4GHz) - Ch. 11) - MCS2

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT (CERTIFICATION) | Approved by:<br>Technical Manager |
|------------------------------------|-----------------------|------------------------------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                          | Dags 70 of 420                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                      | Page 70 of 430                    |





Plot 7-67. Power Spectral Density Plot Antenna 3a (802.11ax (SU - 2.4GHz) - Ch. 1) - MCS2



Plot 7-68. Power Spectral Density Plot Antenna 3a (802.11ax (SU - 2.4GHz) - Ch. 6) - MCS2

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogo 74 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 71 of 430                 |





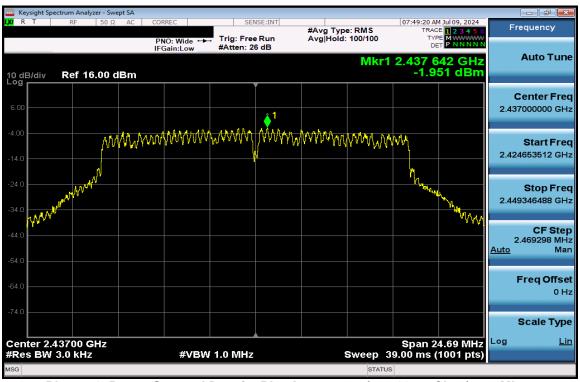
Plot 7-69. Power Spectral Density Plot Antenna 3a (802.11ax (SU - 2.4GHz) - Ch. 11) - MCS2

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dags 70 of 400                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 72 of 430                    |





Plot 7-70. Power Spectral Density Plot Antenna 3a (802.11g - Ch. 1) - 24Mbps



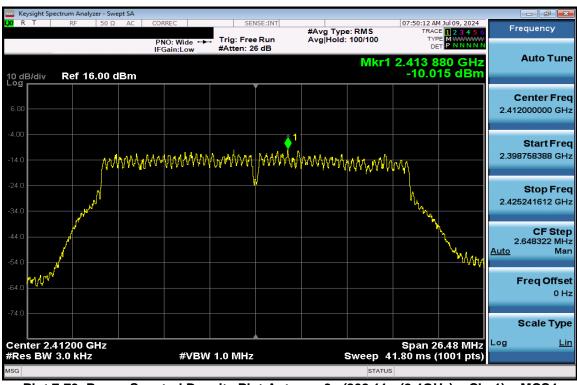
Plot 7-71. Power Spectral Density Plot Antenna 3a (802.11g - Ch. 6) - 24Mbps

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogo 72 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 73 of 430                 |





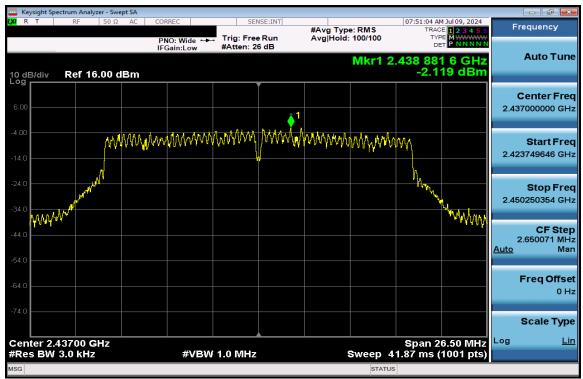
Plot 7-72. Power Spectral Density Plot Antenna 3a (802.11g - Ch. 11) - 24Mbps



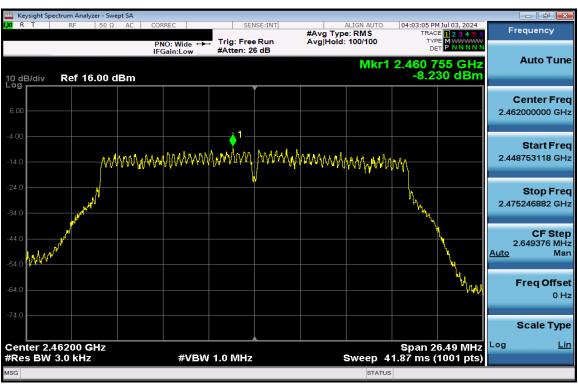
Plot 7-73. Power Spectral Density Plot Antenna 3a (802.11n (2.4GHz) - Ch. 1) - MCS4

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by: Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|--------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogo 74 of 420                 |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 74 of 430                 |





Plot 7-74. Power Spectral Density Plot Antenna 3a (802.11n (2.4GHz) - Ch. 6) - MCS4



Plot 7-75. Power Spectral Density Plot Antenna 3a (802.11n (2.4GHz) - Ch. 11) - MCS4

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT (CERTIFICATION) | Approved by:<br>Technical Manager |
|------------------------------------|-----------------------|------------------------------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                          | Dog 75 of 420                     |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                      | Page 75 of 430                    |





Plot 7-76. Power Spectral Density Plot Antenna 3a (802.11ax (SU - 2.4GHz) - Ch. 1) - MCS4



Plot 7-77. Power Spectral Density Plot Antenna 3a (802.11ax (SU - 2.4GHz) - Ch. 6) - MCS4

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT (CERTIFICATION) | Approved by:<br>Technical Manager |
|------------------------------------|-----------------------|------------------------------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                          | Daga 70 of 420                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                      | Page 76 of 430                    |

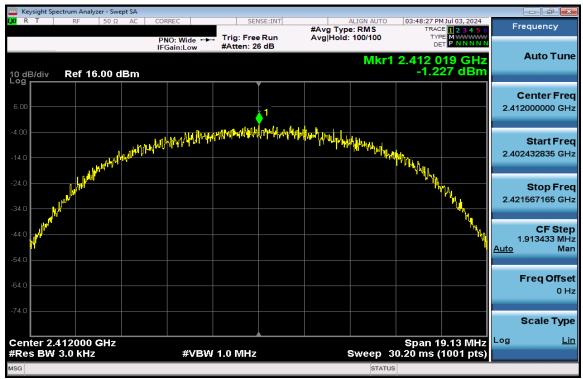




Plot 7-78. Power Spectral Density Plot Antenna 3a (802.11ax (SU - 2.4GHz) - Ch. 11) - MCS4

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|------------------------------------|-----------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                             | Dogo 77 of 420                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                         | Page 77 of 430                    |





Plot 7-79. Power Spectral Density Plot Antenna 3a (802.11b - Ch. 1) - 11Mbps



Plot 7-80. Power Spectral Density Plot Antenna 3a (802.11b - Ch. 6) - 11Mbps

| FCC ID: BCGA2995<br>IC: 579C-A2995 | element               | MEASUREMENT REPORT (CERTIFICATION) | Approved by:<br>Technical Manager |
|------------------------------------|-----------------------|------------------------------------|-----------------------------------|
| Test Report S/N:                   | Test Dates:           | EUT Type:                          | Dags 70 of 420                    |
| 1C2405200018-14.BCG                | 5/20/2024 - 7/12/2024 | Tablet Device                      | Page 78 of 430                    |