

ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST)
18855 Adams Court, Morgan Hill, CA 95037 USA
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DATA REFERENCE REPORT PART 96 C2PC

Applicant Name: Date of Testing:

Apple Inc. 05/30/2022 - 09/09/2022
One Apple Park Way Test Report Issue Date:

Cupertino, CA 95014 6/7/2023

United States Test Site/Location:

Element Washington DC LLC. Morgan Hill, CA, USA

Test Report Serial No.: 1C2305090018-01.BCG

FCC ID: BCGA2761

APPLICANT: Apple Inc.

Reference Model: A2435

Variant Model:: A2761(A2762)
EUT Type: Tablet Device

FCC Classification: Citizens Band End User Devices (CBE)

FCC Rule Part: 96

Test Procedure(s): ANSI C63.26-2015, ANSI/TIA-603-E-2016,

KDB 971168 D01 v03r01, KDB 940660 D01 v03,

WINNF-TS-0122 v1.0.2

Class II Permissive Change: Please see FCC change document

Original Grant Date: 10/18/2022

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 §2.947. 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.



Executive Vice President







| FCC ID: BCGA2761 | element PART 96 DATA REFERENCE REPORT CLASS II PERMISSIVE CHANGE | | Approved by: Technical Manager |
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1.0 INTRODUCTION

1.1 Scope

Per manufacturer declaration, there are two tablet device models, A2435 and A2761(A2762), with high degree of similarity, reference model FCC ID: BCGA2435 and variant model FCC ID: BCGA2761. The reference model support mmWave operations, while the variant models have the mmWave components/antennas removed. Both models share the same material, form factor, circuit design, and components, including antennas and their locations. The reference and variant models use the same power tables and have same tune-up tolerances.

Per FCC approved Data Referencing Test Plan, testing was done fully on the reference model FCC ID: BCGA2435, while conducted and radiated spot-check verification has been performed on variant model FCC ID: BCGA2761. Spot-check measurements were conducted, all measurements were investigated and found to be within acceptable tolerance.

| Equipment Class | Reference Model FCC ID | Reference Report | Report Title |
|-----------------|------------------------|---------------------|------------------------|
| CBE | BCGA2435 | 1C2305090017-01.BCG | RF Part 96 Test Report |

Table 1-1, Reference Model Details

Spot-check verification are not applicable to this test report; therefore, all data for variant model **FCC ID: BCGA2761** can be fully referenced from the reference model.

Reference model FCC ID: BCGA2435 test report has been included in Appendix A

| FCC ID: BCGA2761 | element | PART 96 DATA REFERENCE REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-------------------------|---|-----------------------------------|
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1.2 Element Materials Technology Test Location

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

1.3 Test Facility / Accreditations

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

- Element Materials Technology is a CBRS Alliance (OnGo) Approved Test Lab
- Element Materials Technology is a WInnForum Approved Test Lab
- 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 CBRS Alliance Certification Test Plan and WInnForum Conformance and Performance Test Technical Standard.
- 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: BCGA2761 | element | element PART 96 DATA REFERENCE REPORT CLASS II PERMISSIVE CHANGE | |
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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Tablet Device FCC ID: BCGA2761**. The test data contained in this report pertains only to the emissions due to the EUT's licensed transmitters that operate under the provisions of Part 96.

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, Bluetooth (1x, EDR, LE1M, LE2M, HDR4, HDR8), WPT, NB UNII (1x, HDR4, HDR8)

This device supports BT Beamforming

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.

| a | | WiFi 2.4GHz | Bluetooth | NB UNII | WiFi 5GHz | WiFi 6GHz | LTE / FR1 NR |
|---------|---------------------------|--------------------|--------------------------------|-------------|---------------------|-------------|--------------------|
| Antenna | Simultaneous Tx Config | 802.11 b/g/n/ax | BDR, EDR, HDR4/8, LE1/2M | BDR, HDR4/8 | 802.11 a/n/ac/ax | 802.11 a/ax | Ultra High Band |
| 2a | Config 1 | ✓ | * | * | * | × | ✓ |
| 2a | Config 2 | * | ✓ | * | * | × | ✓ |
| 4a | Config 3 | ✓ | * | ✓ | * | × | * |
| 4a | Config 4 | * | ✓ | * | ✓ | × | × |

Table 2-1. 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 Bluetooth and LTE B48. Results can be found on RF Bluetooth and RF Part 96 Test Reports.
- 2. Wi-Fi 2.4GHz and Bluetooth 2.4 GHz can transmit simultaneously on separate antennas. For BT (2.4 GHz) in connected mode and Wi-Fi (2.4 GHz) Wi-Fi max power will not exceed minimum of (13.5dBm, SAR max cap, Reg max cap) power. For BT (2.4 GHz) in disconnected mode and Wi-Fi (2.4 GHz) BT will be using iPA only and Wi-Fi max power will not exceed minimum of (SAR max cap, Reg max cap) power.

| FCC ID: BCGA2761 | element PART 96 DATA REFERENCE REPORT CLASS II PERMISSIVE CHANGE | | Approved by: Technical Manager |
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2.3 Antenna Description

Following antenna gains provided by manufacturer were used for testing.

| Band | Antenna Gain [dBi] | | | |
|-------------|--------------------|-----------|------------|------------|
| Bariu | Antenna 3 | Antenna 1 | Antenna 4b | Antenna 2a |
| NR Band n48 | 0.0 | -1.2 | -1.6 | 1.8 |

Table 2-2. Highest Antenna Gain

| FCC ID: BCGA2761 | element PART 96 DATA REFERENCE REPORT CLASS II PERMISSIVE CHANGE | | Approved by: Technical Manager |
|---------------------|--|---------------|-----------------------------------|
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3.0 CONCLUSION

The spot-check data measured for variant model **FCC ID**: **BCGA2761** is in tolerance with reference model FCC ID: BCGA2435 per FCC Approved Data Referencing Test Plan.

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4.0 APPENDIX A: REFERENCE MODEL TEST REPORT

Attached is the test report (1C2305090017-01.BCG) from reference model FCC ID: BCGA2435, which includes referenced data results.

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|---------------------|-------------------------|--|-------------|
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MEASUREMENT REPORT Part 96 C2PC Test Report

Applicant Name:

Apple Inc.

One Apple Park Way Cupertino, CA 95014

United States

Date of Testing:

05/30/2022-09/09/2022 **Test Report Issue Date:**

6/7/2023

Test Site/Location:

Element Materials Technology Morgan Hill, CA, USA

Test Report Serial No.: 1C2305090017-01.BCG

FCC ID: BCGA2435

Applicant Name: Apple Inc.

Application Type: Certification Model: A2435

EUT Type: Tablet Device

FCC Classification: Citizens Band End User Devices (CBE)

FCC Rule Part: 96

Test Procedure(s): ANSI C63.26-2015, ANSI/TIA-603-E-2016,

KDB 971168 D01 v03r01, KDB 940660 D01 v03,

WINNF-TS-0122 v1.0.2

Class II Permissive Change: Please see FCC change document

Original Grant Date: 10/18/2022

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 §2.947. 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.



Executive Vice President







| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
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PART 96 MEASUREMENT REPORT



| | | | Tx Frequency | | PAR at 0.1% | EII | RP | inning |
|----------------|-----------|------------|-----------------|-----------|-------------|-------------------|---------------------|--|
| Mode | Bandwidth | Modulation | Range [MHz] | OBW [MHz] | [dB] | Max. Power [W] | Max. Power [dBm] | Emission Designator |
| | | Π/2 BPSK | 3555.0 - 3695.0 | 8.7249 | 4.00 | 0.158 | 22.00 | 8M72G7W |
| | | QPSK | 3555.0 - 3695.0 | 8.6807 | 5.32 | 0.158 | 22.00 | 8M68G7W |
| | 10 MHz | 16QAM | 3555.0 - 3695.0 | 8.7213 | 6.16 | 0.126 | 21.02 | 8M72D7W |
| | | 64QAM | 3555.0 - 3695.0 | 8.6906 | 6.44 | 0.100 | 20.01 | 8M69D7W |
| | | 256QAM | 3555.0 - 3695.0 | 8.7096 | 6.57 | 0.052 | 17.12 | 8M71D7W |
| | | Π/2 BPSK | 3560.0 - 3690.0 | 18.0560 | 3.82 | 0.158 | 22.00 | 18M1G7W |
| | 20 MHz | QPSK | 3560.0 - 3690.0 | 18.3154 | 5.24 | 0.158 | 22.00 | 18M3G7W |
| | | 16QAM | 3560.0 - 3690.0 | 18.3401 | 6.00 | 0.126 | 21.00 | 18M3D7W |
| | | 64QAM | 3560.0 - 3690.0 | 18.3462 | 6.18 | 0.100 | 20.00 | 18M3D7W |
| NR Band n48 | | 256QAM | 3560.0 - 3690.0 | 18.3482 | 6.13 | 0.051 | 17.11 | 18M3D7W |
| INK Dallu 1140 | | Π/2 BPSK | 3565.0 - 3685.0 | 26.9843 | 3.99 | 0.158 | 22.00 | 27M0G7W |
| | | QPSK | 3565.0 - 3685.0 | 28.0173 | 5.31 | 0.158 | 22.00 | 28M0G7W |
| | 30 MHz | 16QAM | 3565.0 - 3685.0 | 28.0193 | 5.97 | 0.127 | 21.05 | 28M0D7W |
| | | 64QAM | 3565.0 - 3685.0 | 27.9961 | 6.22 | 0.100 | 20.02 | 28M0D7W |
| | | 256QAM | 3565.0 - 3685.0 | 27.9782 | 6.06 | 0.052 | 17.15 | dBm] Designator d22.00 8M72G7W 22.00 8M68G7W 21.02 8M72D7W 20.01 8M69D7W 17.12 8M71D7W 22.00 18M1G7W 22.00 18M3D7W 21.00 18M3D7W 20.00 18M3D7W 21.00 28M3D7W 22.00 28M0G7W 22.00 28M0D7W 20.02 28M0D7W 22.00 35M8G7W 22.00 37M9G7W 21.01 38M0D7W 20.02 37M9D7W |
| | | π/2 BPSK | 3570.0 - 3680.0 | 35.8145 | 3.53 | 0.158 | 22.00 | 35M8G7W |
| | | QPSK | 3570.0 - 3680.0 | 37.9173 | 5.06 | 0.158 | 22.00 | 37M9G7W |
| | 40 MHz | 16QAM | 3570.0 - 3680.0 | 38.0449 | 5.90 | 0.126 | 21.01 | 38M0D7W |
| | | 64QAM | 3570.0 - 3680.0 | 37.9391 | 6.14 | 0.100 | 20.02 | 37M9D7W |
| | | 256QAM | 3570.0 - 3680.0 | 37.9908 | 6.20 | 0.051 | 17.10 | 38M0D7W |

EUT Overview

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
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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.

1.2 **Element Materials Technology Test Location**

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

1.3 **Test Facility / Accreditations**

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

- Element Materials Technology is a CBRS Alliance (OnGo) Approved Test Lab
- Element Materials Technology is a WInnForum Approved Test Lab
- 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 CBRS Alliance Certification Test Plan and WInnForum Conformance and Performance Test Technical Standard.
- 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: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Apple Tablet Device FCC ID:BCGA2435**. The test data contained in this report pertains only to the emissions due to the EUT's NR FR1 n48 operation in the CBRS band. Per FCC Part 96, this device is evaluated under Citizens Band End User Devices (CBE).

Test Device Serial No.: VL9QPR2R16, TVDFT4T9CV, V68MLB20069

2.2 Device Capabilities

This device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, Multi-band LTE, 5G NR (FR1/FR2), 802.11b/g/n/ax WLAN, 802.11a/n/ac/ax UNII, 802.11a/ax WIFI 6E, Bluetooth (1x, EDR, LE1M, LE2M, HDR4, HDR8), WPT, NB UNII (1x, HDR4, HDR8)

This device supports BT Beamforming

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.

| | C' II | WiFi 2.4GHz | Bluetooth | NB UNII | WiFi 5GHz | WiFi 6GHz | LTE / FR1 NR |
|---------|---------------------------|--------------------|--------------------------------|-------------|---------------------|-------------|--------------------|
| Antenna | Simultaneous Tx Config | 802.11 b/g/n/ax | BDR, EDR, HDR4/8, LE1/2M | BDR, HDR4/8 | 802.11 a/n/ac/ax | 802.11 a/ax | Ultra High Band |
| 2a | Config 1 | ✓ | × | * | * | × | ✓ |
| 2a | Config 2 | * | ✓ | * | * | × | ✓ |
| 4a | Config 3 | ✓ | × | ✓ | * | × | * |
| 4a | Config 4 | * | ✓ | * | ✓ | × | * |

Table 2-1. 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 Bluetooth and LTE B48. Results can be found on RF Bluetooth and RF Part 96 Test Reports.
- 2. Wi-Fi 2.4GHz and Bluetooth 2.4 GHz can transmit simultaneously on separate antennas. For BT (2.4 GHz) in connected mode and Wi-Fi (2.4 GHz) Wi-Fi max power will not exceed minimum of (13.5dBm, SAR max cap, Reg max cap) power. For BT (2.4 GHz) in disconnected mode and Wi-Fi (2.4 GHz) BT will be using iPA only and Wi-Fi max power will not exceed minimum of (SAR max cap, Reg max cap) power.

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
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2.3 Antenna Description

The following antenna gains provided by manufacturer were used for testing.

| Band | Antenna Gain [dBi] | | | | | |
|-------------|--------------------|-----------|------------|------------|--|--|
| Bariu | Antenna 3 | Antenna 1 | Antenna 4b | Antenna 2a | | |
| NR Band n48 | 0.0 | -1.2 | -1.6 | 1.8 | | |

Table 2-2. Highest Antenna Gain

2.4 Test Support Equipment

| | · | · | · | · | |
|---|-------------------|--------|----------|------|--------------|
| 1 | Apple MacBook Pro | Model: | A2141 | S/N: | C02DV7VKMD6T |
| | w/AC/DC Adapter | Model: | A2166 | S/N: | N/A |
| | | | | | |
| 2 | Apple USB-C Cable | Model: | Spartan | S/N: | 000MKTR02U |
| | | | | | |
| 3 | USB-C Cable | Model: | A246 | S/N: | N/A |
| | w/ AC Adapter | Model: | A2305 | S/N: | N/A |
| | | | | | |
| 4 | Apple Pencil | Model: | N/A | S/N: | GQXGSXBJKM9 |
| | | | | | |
| 5 | DC Power Supply | Model: | KPS3010D | S/N: | N/A |

Table 2-3. Test Support Equipment

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo C of CO |
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2.5 Test Configuration

The EUT was tested per the guidance of ANSI C63.26 2015, TIA-603-E-2016 and KDB 971168 D01 v03r01. See Section 7.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

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.

All possible simultaneous transmission configurations have been investigated and the worst case config has been reported.

2.6 Software and Firmware

The test was conducted with firmware version 20A8359 installed on the EUT.

2.7 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
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3.0 DESCRIPTION OF TESTS

3.1 Measurement Procedure

The measurement procedures described in the document titled "Land Mobile FM or PM – Communications Equipment – Measurements and Performance Standards" (ANSI C63.26-2015, TIA-603-E-2016) and "Procedures for Compliance Measurement of the Fundamental Emission Power of Licensed Wideband (> 1 MHz) Digital Transmission Systems" (KDB 971168 D01 v03r01) were used in the measurement of the EUT.

Deviation from Measurement Procedure......None

3.2 Radiated Spurious 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. For measurements below 1GHz, the absorbers are removed. A raised turntable is used for radiated measurement. The turn table is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm tall test table made of Styrodur is placed on top of the turn table. A Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

The equipment under test was transmitting while connected to its integral antenna and is placed on a turntable 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer.

For radiated spurious emissions measurements and calculations, conversion method is used per the formulas in KDB 971168 Section 5.8.4. Field Strength (EIRP) is calculated using the following formulas:

 $E_{[dB\mu V/m]} = Measured \ amplitude \ level_{[dBm]} + 107 + Cable \ Loss_{[dB]} + Antenna \ Factor_{[dB/m]} \ And$ $EIRP_{[dBm]} = E_{[dB\mu V/m]} + 20logD - 104.8; \ where \ D \ is the \ measurement \ distance \ in \ meters.$

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4-2014.

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

Radiated spurious emission levels are investigated with the receive antenna horizontally and vertically polarized per ANSI C63.26-2015 and TIA-603-E-2016.

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|---------------------|-----------------------|--|-----------------------------------|
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4.0 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 | 1.77 |
| Radiated Disturbance (<30MHz) | 4.38 |
| Radiated Disturbance (30MHz-1GHz) | 4.75 |
| Radiated Disturbance (1-18GHz) | 5.20 |
| Radiated Disturbance (>18GHz) | 4.72 |

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
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5.0 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-44GHz PXA Signal Analyzer | 6/10/2022 | Annual | 6/10/2023 | MY49430244 |
| Agilent Technologies | N9020A | MXA Signal Analyzer | 4/26/2022 | Annual | 4/26/2023 | MY56470202 |
| ATM | 180-442A-KF | 20dB Nominal Gain Horn Antenna | 1/19/2022 | Annual | 1/19/2023 | T058701-02 |
| ETS-Lindgren | 3142E | Biconilog Antenna (26-6000MHz) | 10/21/2021 | Annual | 10/21/2022 | 208204 |
| ETS-Lindgren | 3117 | Double Ridged Guide Horn Antenna (1-18GHz) | 10/25/2021 | Annual | 10/25/2022 | 227597 |
| ETS-Lindgren | SU-241 | Table Top Temperature Chamber | 10/6/2021 | Annual | 10/6/2022 | 92009574 |
| Keysight Technology | N9040B | UXA Signal Analyzer | 2/8/2022 | Annual | 2/8/2023 | MY57212015 |
| Rohde & Schwarz | TS-PR8 | Pre-Amplifier (30MHz-6GHz) | 1/6/2022 | Annual | 1/6/2023 | 102328 |
| Rohde & Schwarz | CMW500 | Wideband Radio Communication Tester | 10/11/2021 | Annual | 10/11/2022 | 161616 |
| Rohde & Schwarz | CMW500 | Wideband Radio Communication Tester | 11/4/2021 | Annual | 11/4/2022 | 151888 |
| Rohde & Schwarz | ESW26 | EMI Test Receiver | 5/19/2022 | Annual | 5/19/2023 | 101299 |
| Rohde & Schwarz | ESW44 | EMI Test Receiver | 1/30/2023 | Annual | 1/30/2024 | 101570 |
| Rohde & Schwarz | FSV40 | Signal Analyzer (10Hz-40GHz) | 3/4/2022 | Annual | 3/4/2023 | 101619 |
| Rohde & Schwarz | FSVA3044 | Signal Analyzer (up to 44 GHz) | 5/12/2022 | Annual | 5/12/2023 | 101098 |
| Rohde & Schwarz | HFH2-Z2 | Loop Antenna | 4/3/2022 | Annual | 4/3/2023 | 100546 |
| Rohde & Schwarz | TC-TA18 | Cross-Polarized Antenna 400MHz-18GHz | 2/23/2023 | Annual | 2/23/2025 | 101072 |
| Rohde & Schwarz | TS-PR18 | Pre-Amplifier (1GHz-18GHz) | 1/6/2022 | Annual | 1/6/2023 | 101639 |
| Rohde & Schwarz | TS-PR1840 | Pre-Amplifier (18GHz-40GHz) | 4/18/2022 | Annual | 4/18/2023 | 100050 |

Table 5-1. Test Equipment

Notes:

- 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. Equipment with a calibration date of "N/A" shown in this list was not used to make direct calibrated measurements.

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|---------------------|-----------------------|--|-----------------------------------|
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6.0 SAMPLE CALCULATIONS

Emission Designator

π/2 BPSK / QPSK Modulation

Emission Designator = 8M62G7W

BW = 8.62 MHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination of Any

QAM Modulation

Emission Designator = 8M45D7W

BW = 8.45 MHz

D = Amplitude/Angle Modulated

7 = Quantized/Digital Info

W = Combination of Any

Spurious Radiated Emission

Example: Spurious emission at 3700.40 MHz

The receive spectrum analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the spectrum analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 3700.40 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.50 dBm so this harmonic was 25.50 dBm - (-24.80) = 50.3 dBc.

| FCC ID: BCGA2435 | element PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | | Approved by: Technical Manager |
|---------------------|---|---------------|-----------------------------------|
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7.0 TEST RESULTS

7.1 Summary

Company Name: Apple Inc.

FCC ID: BCGA2435

FCC Classification: <u>Citizens Band End User Devices (CBE)</u>

Mode(s): NR

| Test Condition | Test Description | FCC Part Section(s) | Test Limit | Test Result | Reference |
|-------------------|--|---------------------|---|-------------|------------------------------|
| | Occupied Bandwidth | 2.1049 | N/A | N/A | Section 7.2 |
| | Conducted Band Edge / Spurious Emissions | 2 1051 96 41(a\/ii\ | -13 dBm/MHz at frequencies within 0-B MHz of channel edge (where B is the bandwidth of the assigned channel) -25 dBm/MHz at frequencies greater than B MHz above and below channel edge -40 dBm/MHz at frequencies below 3530 MHz and above 3720 MHz | PASS | Sections 7.3, 7.4 |
| | Transmitter Conducted Output Power | 2.1046 | N/A | N/A | See RF Exposure Report |
| CONDUCTED | Peak-Average Ratio | 96.41(g) | < 13 dB | PASS | Section 7.5 |
| | Frequency Stability | 2.1055 | Fundamental emissions stay within authorized frequency block | PASS | Section 7.8 |
| | End User Device Additional Requirements (CBSD Protocol) | 96.47 | End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation. An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD. | PASS | Section 7.9 |
| | Equivalent Isotropic Radiated Power (EIRP) | 96.41(b) | 23 dBm/10MHz | PASS | Section 7.6 |
| RADIATED | Radiated Spurious Emissions | 2.1053, 96.41(e) | -40 dBm/MHz | PASS | Section 7.7 |

Table 7-1. Summary of Test Results

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 12 of 60 |
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Notes:

- 1. All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2. The analyzer plots were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT 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, attenuators, and couplers.
- 4. All conducted emissions measurements are performed with automated test software to capture the corresponding plots necessary to show compliance. The measurement software utilized was Element EMC Software Tool 1.1.

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
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7.2 Occupied Bandwidth

§2.1049

Test Overview

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. All ports were tested and only the worst case data were reported.

Test Procedure Used

KDB 971168 D01 v03r01 - Section 4.2

Test Settings

- 1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 1 5% of the expected OBW
- 3. VBW \geq 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize
- 8. If necessary, steps 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

Test Setup

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

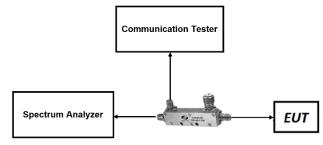


Figure 7-1. Test Instrument & Measurement Setup

Test Notes

None.

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: |
|---------------------|-----------------------|--|-------------------|
| | _ | CEAGO II I ERMIGOIVE CHANGE | Technical Manager |
| Test Report S/N: | Test Dates: | EUT Type: | Page 14 of 60 |
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NR Band n48



Plot 7-1. Occupied Bandwidth Plot (NR Band n48 - 10MHz π/2 BPSK - Full RB Configuration)



Plot 7-2. Occupied Bandwidth Plot (NR Band n48 - 10MHz QPSK - Full RB Configuration)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 15 of CO |
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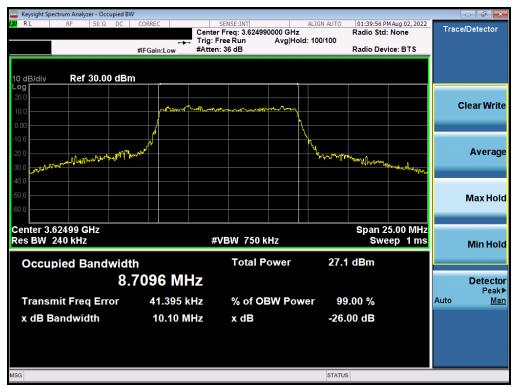
Plot 7-3. Occupied Bandwidth Plot (NR Band n48 - 10MHz 16-QAM - Full RB Configuration)



Plot 7-4. Occupied Bandwidth Plot (NR Band n48 - 10MHz 64-QAM - Full RB Configuration)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 16 of 60 |
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Plot 7-5. Occupied Bandwidth Plot (NR Band n48 - 10MHz 256-QAM - Full RB Configuration)



Plot 7-6. Occupied Bandwidth Plot (NR Band n48 - 20MHz π/2 BPSK - Full RB Configuration)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 17 of 60 |
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Plot 7-7. Occupied Bandwidth Plot (NR Band n48 - 20MHz QPSK - Full RB Configuration)



Plot 7-8. Occupied Bandwidth Plot (NR Band n48 - 20MHz 16-QAM - Full RB Configuration)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 10 of 60 |
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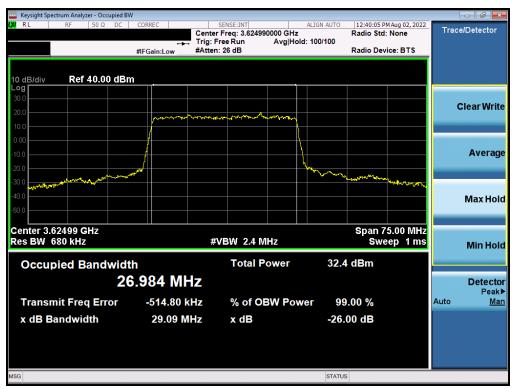
Plot 7-9. Occupied Bandwidth Plot (NR Band n48 - 20MHz 64-QAM - Full RB Configuration)



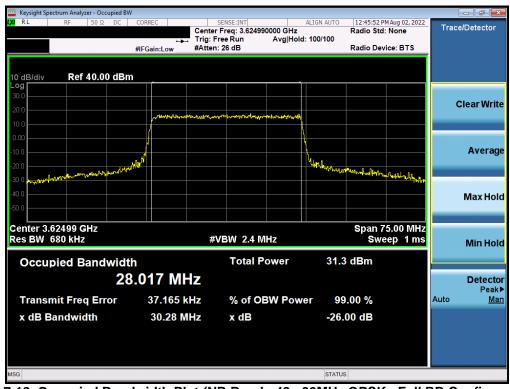
Plot 7-10. Occupied Bandwidth Plot (NR Band n48 - 20MHz 256-QAM - Full RB Configuration)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 10 of 60 |
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Plot 7-11. Occupied Bandwidth Plot (NR Band n48 - 30MHz π/2 BPSK - Full RB Configuration)



Plot 7-12. Occupied Bandwidth Plot (NR Band n48 - 30MHz QPSK - Full RB Configuration)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 20 of 60 |
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Plot 7-13. Occupied Bandwidth Plot (NR Band n48 - 30MHz 16-QAM - Full RB Configuration)



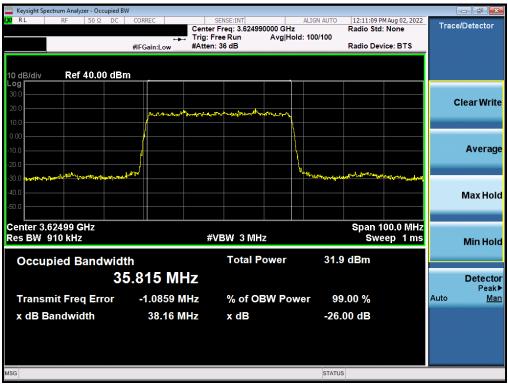
Plot 7-14. Occupied Bandwidth Plot (NR Band n48 - 30MHz 64-QAM - Full RB Configuration)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 24 of 60 |
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Plot 7-15. Occupied Bandwidth Plot (NR Band n48 - 30MHz 256-QAM - Full RB Configuration)



Plot 7-16. Occupied Bandwidth Plot (NR Band n48 - 40MHz π/2 BPSK - Full RB Configuration)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 22 of 60 |
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Plot 7-17. Occupied Bandwidth Plot (NR Band n48 - 40MHz QPSK - Full RB Configuration)



Plot 7-18. Occupied Bandwidth Plot (NR Band n48 - 40MHz 16-QAM - Full RB Configuration)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 22 of 60 |
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Plot 7-19. Occupied Bandwidth Plot (NR Band n48 - 40MHz 64-QAM - Full RB Configuration)



Plot 7-20. Occupied Bandwidth Plot (NR Band n48 - 40MHz 256-QAM - Full RB Configuration)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 24 of 60 |
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7.3 Spurious and Harmonic Emissions at Antenna Terminal §2.1051 §96.41(e)

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are 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 to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section. All ports were tested and only the worst case data were reported.

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/Mhz.

Test Procedure Used

KDB 971168 D01 v03r01 - Section 6.0

Test Settings

- 1. Start frequency was set to 30MHz and stop frequency was set to at least 10 * the fundamental frequency (separated into at least two plots per channel)
- Detector = RMS
- 3. Trace mode = Max Hold
- 4. Sweep time = auto couple
- 5. The trace was allowed to stabilize
- 6. Please see test notes below for RBW and VBW settings

Test Setup

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

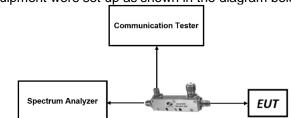


Figure 7-2. Test Instrument & Measurement Setup

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg OF of CO |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 25 of 69 |



Test Notes

1. Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 20 of 60 |
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NR Band n48



Plot 7-21. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel)



Plot 7-22. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 27 of 60 |
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Plot 7-23. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel)



Plot 7-24. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 20 of 60 |
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Plot 7-25. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel)



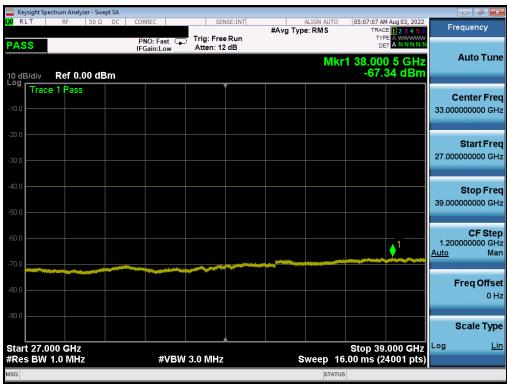
Plot 7-26. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 20 of 60 |
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Plot 7-27. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel)



Plot 7-28. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 20 of 60 |
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Plot 7-29. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel)



Plot 7-30. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 24 of C0 |
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Plot 7-31. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel)



Plot 7-32. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 22 of 60 |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 32 of 69 |



7.4 Band Edge Emissions at Antenna Terminal

§2.1051 §96.41(e)(ii)

Test Overview

All out of band emissions are 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 to determine the worst case configuration. All modes of operation and all ports were investigated and the worst case configuration results are reported in this section.

The conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B MHz (where B is the bandwidth in MHz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B MHz below the lower CBSD-assigned channel edge. At all frequencies greater than B MHz above the upper CBSD assigned channel edge and less than B MHz below the lower CBSD-assigned channel edge, the conducted power of any end user device emission shall not exceed -25 dBm/MHz. The conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

Test Procedure Used

KDB 971168 D01 v03r01 - Section 6.0

Test Settings

- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW ≥ 1% of the emission bandwidth
- 4. $VBW \ge 3 \times RBW$
- 5. Detector = RMS
- 6. Number of sweep points ≥ 2 x Span/RBW
- 7. Trace mode = trace average
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize

Test Setup

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

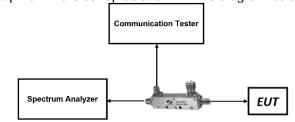


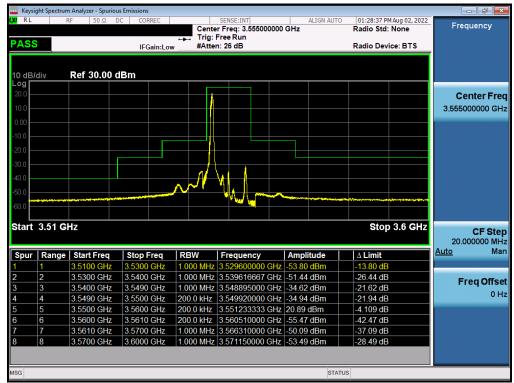
Figure 7-3. Test Instrument & Measurement Setup

Test Notes

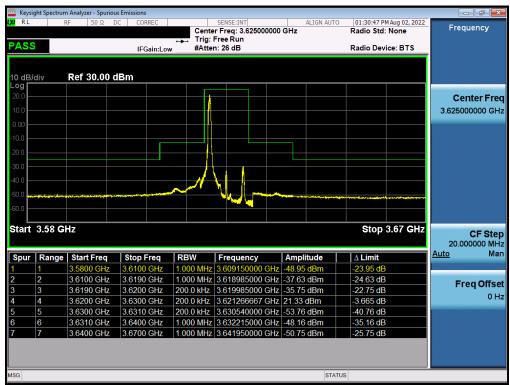
None

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | D 00 -4 00 |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 33 of 69 |





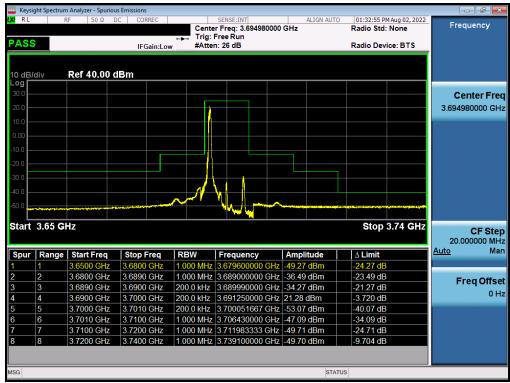
Plot 7-33. Channel Edge Plot (NR Band n48 - 10MHz QPSK - Low Channel)



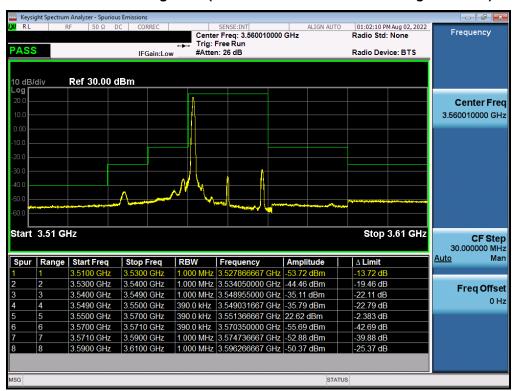
Plot 7-34. Channel Edge Plot (NR Band n48 - 10MHz QPSK - Mid Channel)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 24 of 60 |
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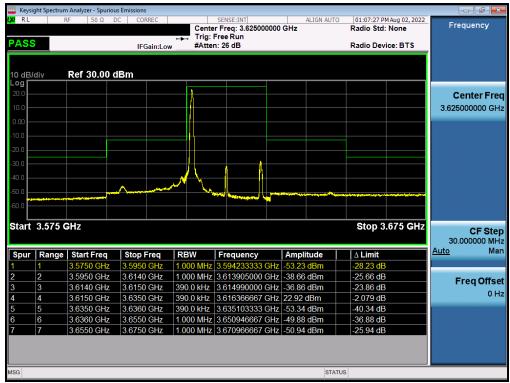
Plot 7-35. Channel Edge Plot (NR Band n48 - 10MHz QPSK - High Channel)



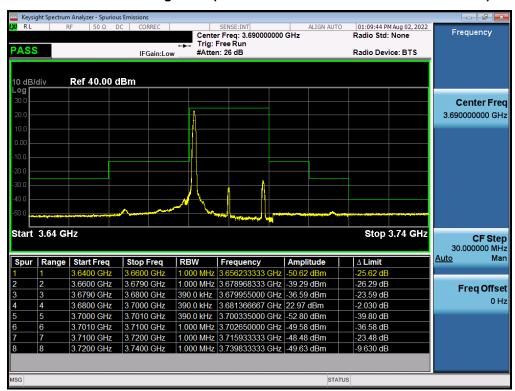
Plot 7-36. Channel Edge Plot (NR Band n48 - 20MHz QPSK - Low Channel)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 25 of 60 |
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Plot 7-37. Channel Edge Plot (NR Band n48 - 20MHz QPSK - Mid Channel)



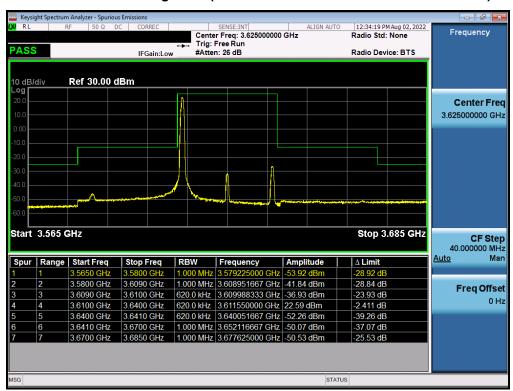
Plot 7-38. Channel Edge Plot (NR Band n48 - 20MHz QPSK - High Channel)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 20 of 60 |
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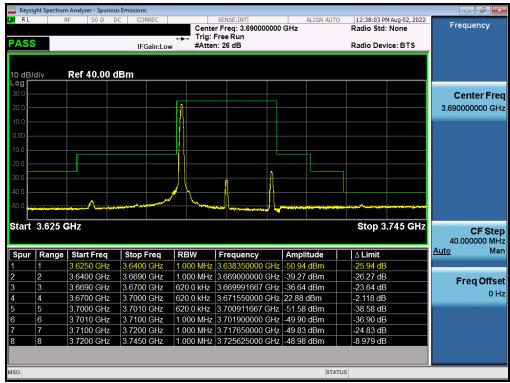
Plot 7-39. Channel Edge Plot (NR Band n48 - 30MHz QPSK - Low Channel)



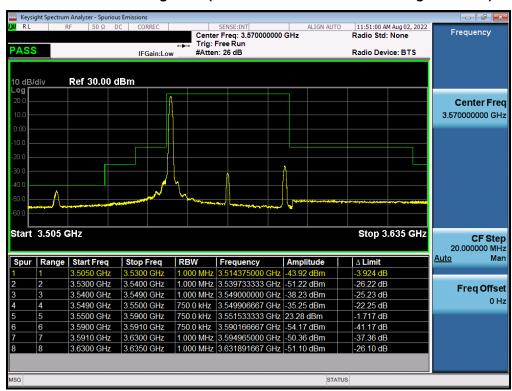
Plot 7-40. Channel Edge Plot (NR Band n48 - 30MHz QPSK - Mid Channel)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 27 of 60 |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 37 of 69 |





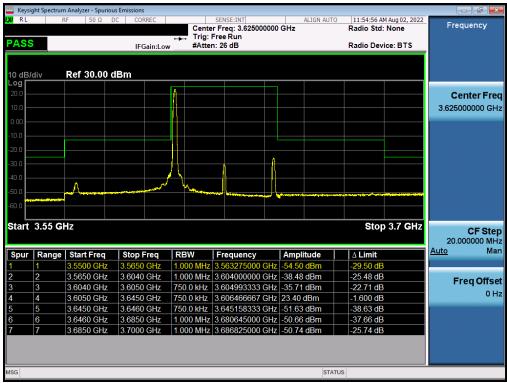
Plot 7-41. Channel Edge Plot (NR Band n48 - 30MHz QPSK - High Channel)



Plot 7-42. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 20 of 60 |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 38 of 69 |





Plot 7-43. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Mid Channel)



Plot 7-44. Channel Edge Plot (NR Band n48 - 40MHz QPSK - High Channel)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 20 of 60 |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 39 of 69 |



7.5 Peak-Average Ratio

§96.41(g);

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. All ports were tested and only the worst case data were reported.

Test Procedure Used

KDB 971168 D01 v03r01 - Section 5.7.1

Test Settings

- 1. The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- 3. Measurement BW ≥ OBW or specified reference bandwidth
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Setup

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

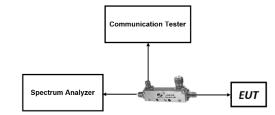


Figure 7-4. Test Instrument & Measurement Setup

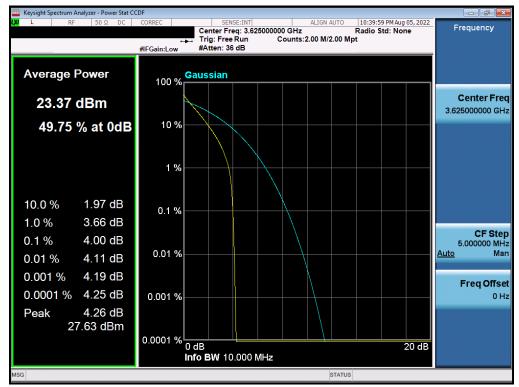
Test Notes

None.

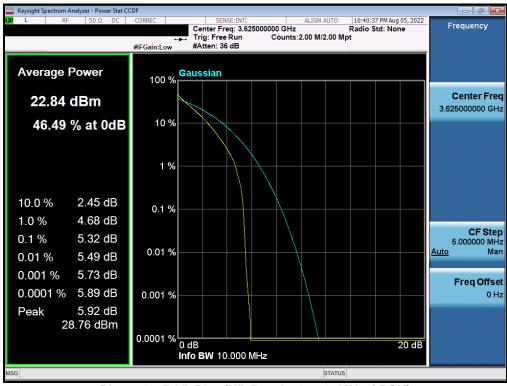
| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dage 40 of 60 |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 40 of 69 |



NR Band 48



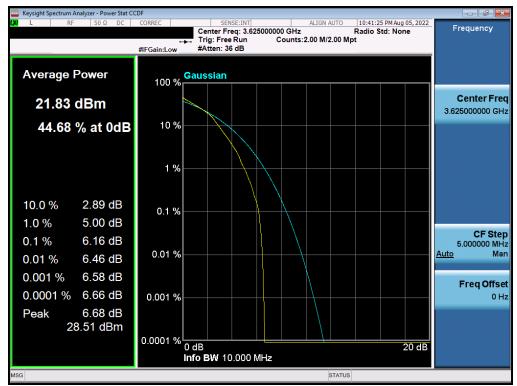
Plot 7-45. PAR Plot (NR Band n48 - 10MHz π /2 BPSK)



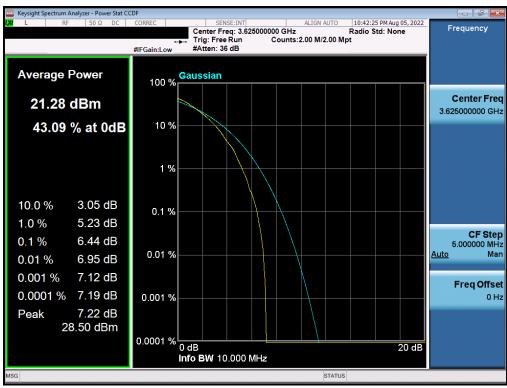
Plot 7-46. PAR Plot (NR Band n48 - 10MHz QPSK)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 44 of 60 |
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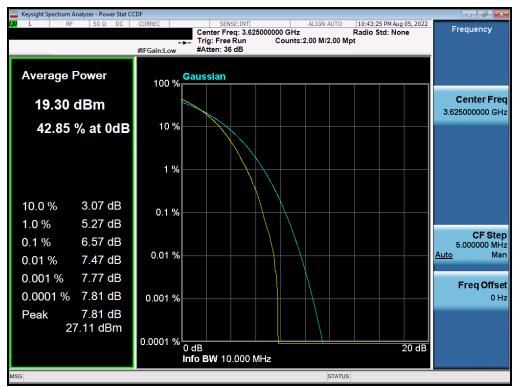
Plot 7-47. PAR Plot (NR Band n48 - 10MHz 16-QAM)



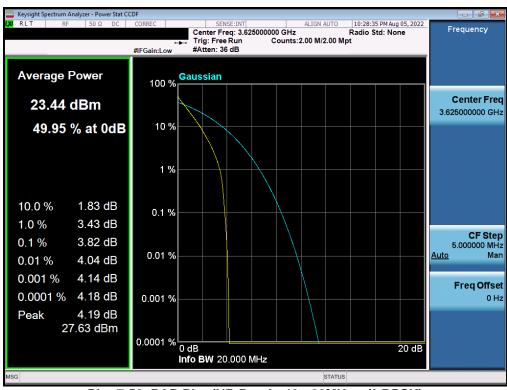
Plot 7-48. PAR Plot (NR Band n48 - 10MHz 64-QAM)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 42 of 60 |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 42 of 69 |





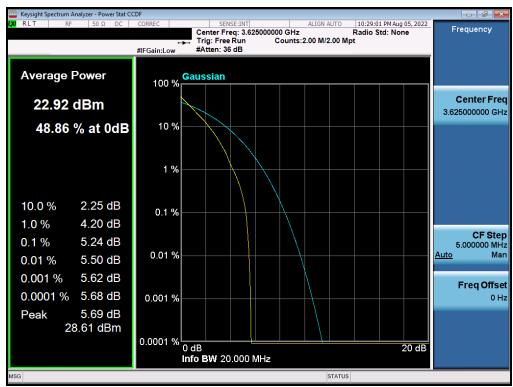
Plot 7-49. PAR Plot (NR Band n48 - 10MHz 256-QAM)



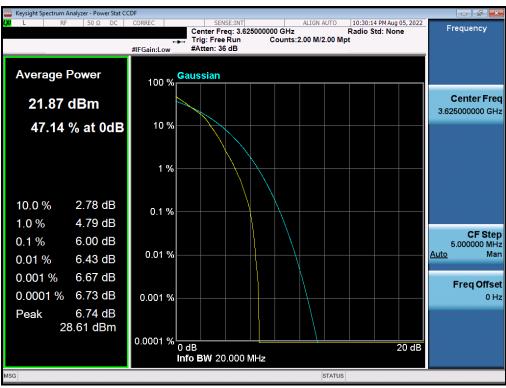
Plot 7-50. PAR Plot (NR Band n48 - 20MHz π /2 BPSK)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 42 of 60 |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 43 of 69 |





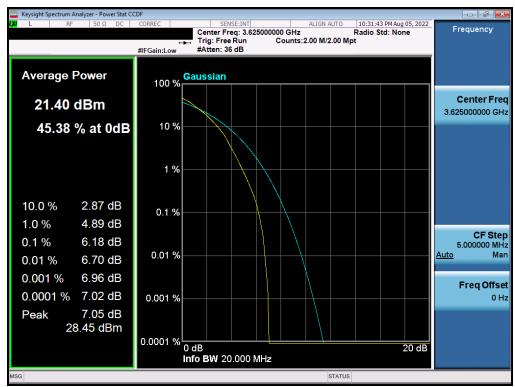
Plot 7-51. PAR Plot (NR Band n48 - 20MHz QPSK)



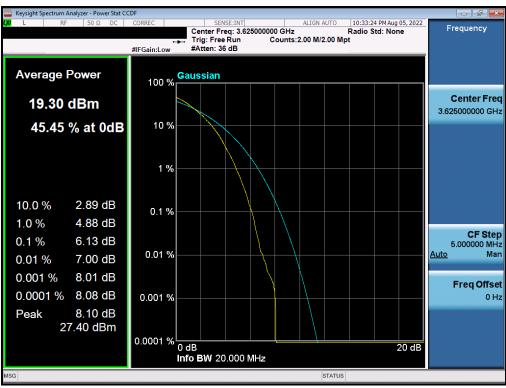
Plot 7-52. PAR Plot (NR Band n48 - 20MHz 16-QAM)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 44 of 60 |
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Plot 7-53. PAR Plot (NR Band n48 - 20MHz 64-QAM)



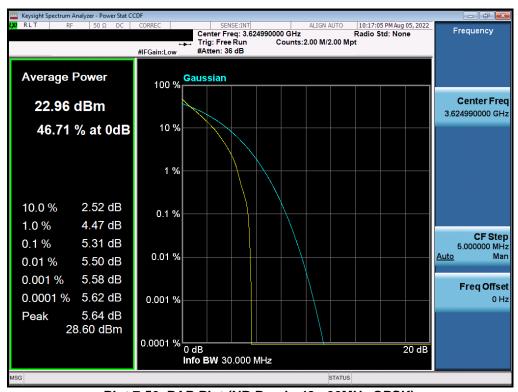
Plot 7-54. PAR Plot (NR Band n48 - 20MHz 256-QAM)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 45 of 60 |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 45 of 69 |





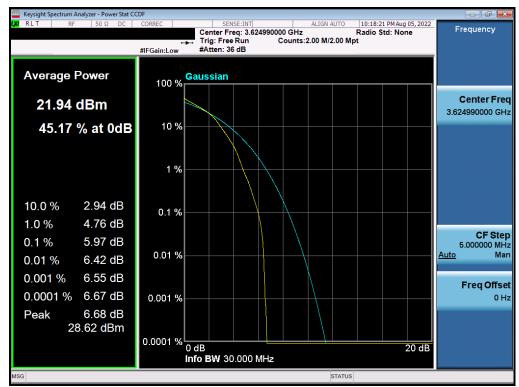
Plot 7-55. PAR Plot (NR Band n48 - 30MHz π/2 BPSK)



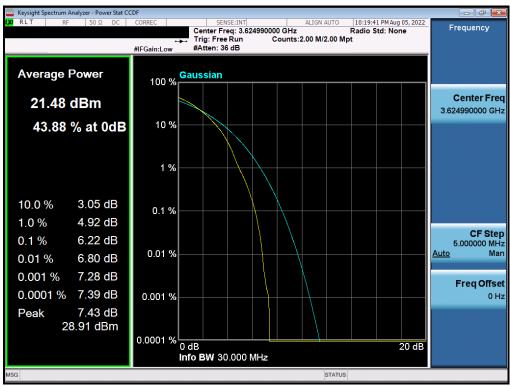
Plot 7-56. PAR Plot (NR Band n48 - 30MHz QPSK)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 46 of 60 |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 46 of 69 |





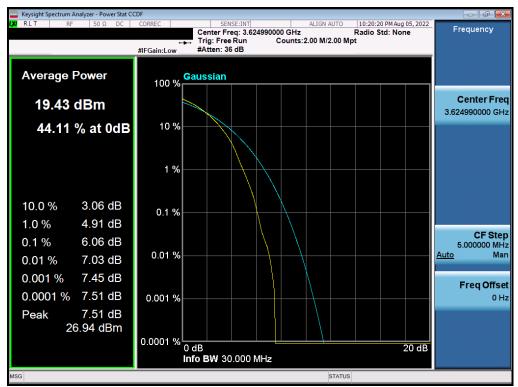
Plot 7-57. PAR Plot (NR Band n48 - 30MHz 16-QAM)



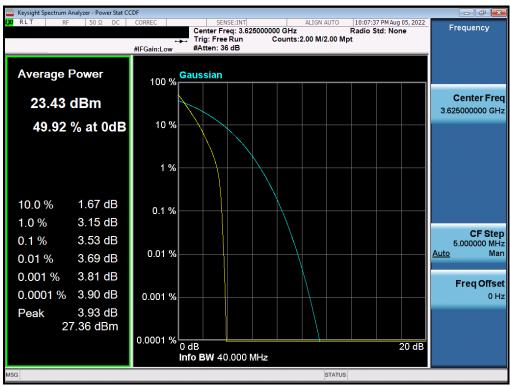
Plot 7-58. PAR Plot (NR Band n48 - 30MHz 64-QAM)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 47 of 60 |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 47 of 69 |





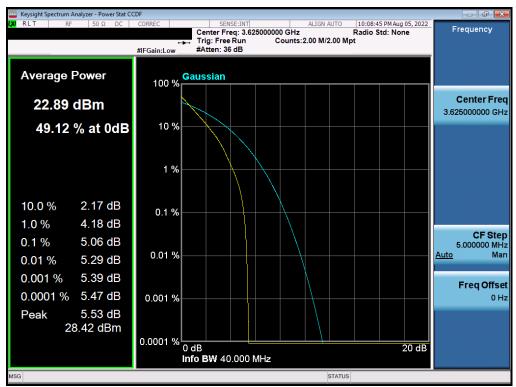
Plot 7-59. PAR Plot (NR Band n48 - 30MHz 256-QAM)



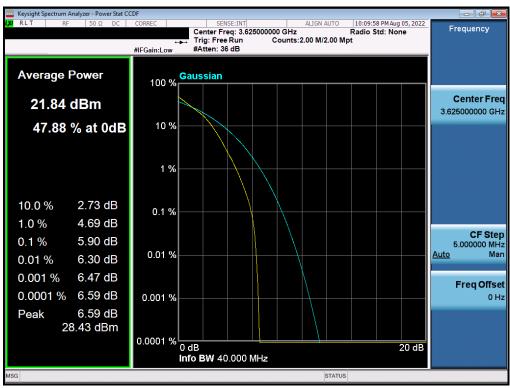
Plot 7-60. PAR Plot (NR Band n48 - 40MHz π/2 BPSK)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 40 of 60 |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 48 of 69 |





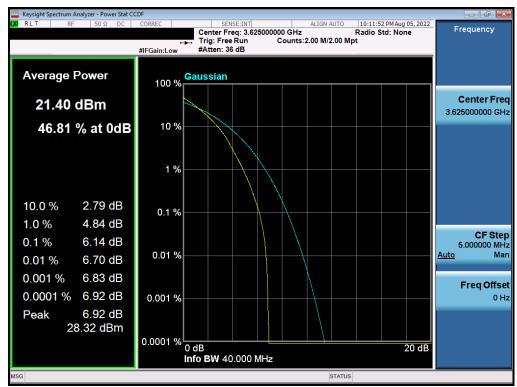
Plot 7-61. PAR Plot (NR Band n48 - 40MHz QPSK)



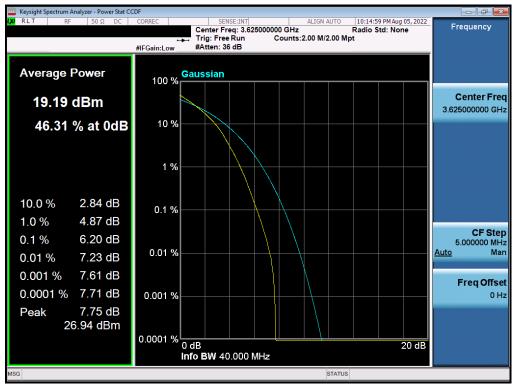
Plot 7-62. PAR Plot (NR Band n48 - 40MHz 16-QAM)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 40 of 60 |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 49 of 69 |





Plot 7-63. PAR Plot (NR Band n48 - 40MHz 64-QAM)



Plot 7-64. PAR Plot (NR Band n48 - 40MHz 256-QAM)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg FO of CO |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 50 of 69 |



7.6 Radiated Power (EIRP)

§96.41(b)

Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are calculated by adding highest antenna gain to maximum measured conducted output power. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 - Section 5.2.1

ANSI C63.26-2015

Test Settings

The relevant equation for determining the EIRP from the conducted RF output power measured is:

EIRP = PMeas - LC + GT

Where:

EIRP = Equivalent Isotropic Radiated Power (expressed in the same units as PMeas, typically dBW or dBm)

PMeas = measured transmitter output power or PSD, in dBW or dBm

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

GT = gain of the transmitting antenna, in dBi (EIRP)

Test Setup

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

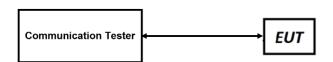


Figure 7-5. EIRP Measurement Setup

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg F1 of CO |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 51 of 69 |



Test Notes

- 1) The worst case emissions are reported with the modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.
- 4) The worst case EIRP shown in this section is found with NR operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths for NR Band n48 (i.e. 10, 20, 30, 40MHz).

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 50 of 60 |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 52 of 69 |



Antenna 3 - EIRP

| Bandwidth | Mod. | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | EIRP [dBm/10MHz] | EIRP [Watts/10MHz] | EIRP Limit [dBm/10MHz] | Margin [dB] |
|-----------|----------|--------------------|--------------------|-------------------|--------------------------|---------------------|-----------------------|---------------------------|-------------|
| | | 3555.0 | 0.00 | 1 / 12 | 21.91 | 21.91 | 0.155 | 23.00 | -1.09 |
| | π/2 BPSK | 3625.0 | 0.00 | 1 / 23 | 22.00 | 22.00 | 0.158 | 23.00 | -1.00 |
| | | 3695.0 | 0.00 | 1 / 23 | 21.86 | 21.86 | 0.153 | 23.00 | -1.14 |
| ¥ | | 3555.0 | 0.00 | 1 / 12 | 21.95 | 21.95 | 0.157 | 23.00 | -1.05 |
| 10 MHz | QPSK | 3625.0 | 0.00 | 1 / 12 | 21.96 | 21.96 | 0.157 | 23.00 | -1.04 |
| 10 | | 3695.0 | 0.00 | 1 / 23 | 21.95 | 21.95 | 0.157 | 23.00 | -1.05 |
| | 16-QAM | 3555.0 | 0.00 | 1 / 12 | 21.02 | 21.02 | 0.126 | 23.00 | -1.98 |
| | 64-QAM | 3555.0 | 0.00 | 1 / 1 | 20.01 | 20.01 | 0.100 | 23.00 | -2.99 |
| | 256-QAM | 3555.0 | 0.00 | 1/1 | 17.12 | 17.12 | 0.052 | 23.00 | -5.88 |
| | | 3560.0 | 0.00 | 1 / 25 | 21.93 | 21.93 | 0.156 | 23.00 | -1.07 |
| | π/2 BPSK | 3625.0 | 0.00 | 1 / 49 | 22.00 | 22.00 | 0.158 | 23.00 | -1.00 |
| | | 3690.0 | 0.00 | 1 / 49 | 21.79 | 21.79 | 0.151 | 23.00 | -1.21 |
| 7 | | 3560.0 | 0.00 | 1 / 25 | 22.00 | 22.00 | 0.158 | 23.00 | -1.00 |
| Ē | QPSK | 3625.0 | 0.00 | 1 / 25 | 21.96 | 21.96 | 0.157 | 23.00 | -1.04 |
| 20 MHz | | 3690.0 | 0.00 | 1 / 1 | 21.92 | 21.92 | 0.156 | 23.00 | -1.08 |
| | 16-QAM | 3690.0 | 0.00 | 1 / 25 | 21.00 | 21.00 | 0.126 | 23.00 | -2.00 |
| | 64-QAM | 3625.0 | 0.00 | 1 / 49 | 20.00 | 20.00 | 0.100 | 23.00 | -3.00 |
| | 256-QAM | 3690.0 | 0.00 | 1 / 25 | 17.07 | 17.07 | 0.051 | 23.00 | -5.93 |
| | | 3565.0 | 0.00 | 1 / 75 | 22.00 | 22.00 | 0.158 | 23.00 | -1.00 |
| | π/2 BPSK | 3625.0 | 0.00 | 1 / 39 | 21.91 | 21.91 | 0.155 | 23.00 | -1.09 |
| | | 3685.0 | 0.00 | 1 / 1 | 21.88 | 21.88 | 0.154 | 23.00 | -1.12 |
| ¥ | | 3565.0 | 0.00 | 1 / 1 | 21.92 | 21.92 | 0.156 | 23.00 | -1.08 |
| 30 MHz | QPSK | 3625.0 | 0.00 | 1 / 1 | 21.91 | 21.91 | 0.155 | 23.00 | -1.09 |
| 30 | | 3685.0 | 0.00 | 1 / 39 | 21.96 | 21.96 | 0.157 | 23.00 | -1.04 |
| | 16-QAM | 3685.0 | 0.00 | 1 / 75 | 21.05 | 21.05 | 0.127 | 23.00 | -1.95 |
| | 64-QAM | 3565.0 | 0.00 | 1 / 75 | 20.02 | 20.02 | 0.100 | 23.00 | -2.98 |
| | 256-QAM | 3565.0 | 0.00 | 1 / 75 | 17.12 | 17.12 | 0.052 | 23.00 | -5.88 |
| | | 3570.0 | 0.00 | 1 / 53 | 21.90 | 21.90 | 0.155 | 23.00 | -1.10 |
| | π/2 BPSK | 3625.0 | 0.00 | 1 / 53 | 21.89 | 21.89 | 0.155 | 23.00 | -1.11 |
| | | 3680.0 | 0.00 | 1 / 53 | 21.88 | 21.88 | 0.154 | 23.00 | -1.12 |
| | | 3570.0 | 0.00 | 1 / 53 | 22.00 | 22.00 | 0.158 | 23.00 | -1.00 |
| 40 MHz | QPSK | 3625.0 | 0.00 | 1 / 104 | 21.92 | 21.92 | 0.156 | 23.00 | -1.08 |
| 40 | | 3680.0 | 0.00 | 1 / 1 | 21.79 | 21.79 | 0.151 | 23.00 | -1.21 |
| | 16-QAM | 3625.0 | 0.00 | 1 / 1 | 20.98 | 20.98 | 0.125 | 23.00 | -2.02 |
| | 64-QAM | 3570.0 | 0.00 | 1/1 | 20.00 | 20.00 | 0.100 | 23.00 | -3.00 |
| | 256-QAM | 3625.0 | 0.00 | 1/1 | 17.05 | 17.05 | 0.051 | 23.00 | -5.95 |

Table 7-2. EIRP Data (NR Band n48)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 52 of 60 |
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Antenna 1 - EIRP

| Bandwidth | Mod. | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | EIRP [dBm/10MHz] | EIRP [Watts/10MHz] | EIRP Limit [dBm/10MHz] | Margin [dB] |
|-----------|----------|--------------------|--------------------|-------------------|--------------------------|---------------------|-----------------------|---------------------------|-------------|
| | | 3555.0 | -1.20 | 1 / 1 | 22.98 | 21.78 | 0.151 | 23.00 | -1.22 |
| | π/2 BPSK | 3625.0 | -1.20 | 1 / 23 | 23.16 | 21.96 | 0.157 | 23.00 | -1.04 |
| | | 3695.0 | -1.20 | 1 / 1 | 23.08 | 21.88 | 0.154 | 23.00 | -1.12 |
| 보 | | 3555.0 | -1.20 | 1 / 1 | 23.03 | 21.83 | 0.152 | 23.00 | -1.17 |
| 10 MHz | QPSK | 3625.0 | -1.20 | 1 / 12 | 23.13 | 21.93 | 0.156 | 23.00 | -1.07 |
| 10 | | 3695.0 | -1.20 | 1 / 23 | 23.20 | 22.00 | 0.158 | 23.00 | -1.00 |
| | 16-QAM | 3555.0 | -1.20 | 1/1 | 22.18 | 20.98 | 0.125 | 23.00 | -2.02 |
| | 64-QAM | 3555.0 | -1.20 | 1 / 12 | 21.18 | 19.98 | 0.100 | 23.00 | -3.02 |
| | 256-QAM | 3695.0 | -1.20 | 1 / 12 | 18.30 | 17.10 | 0.051 | 23.00 | -5.90 |
| | | 3560.0 | -1.20 | 1 / 1 | 23.18 | 21.98 | 0.158 | 23.00 | -1.02 |
| | π/2 BPSK | 3625.0 | -1.20 | 1 / 49 | 23.15 | 21.95 | 0.157 | 23.00 | -1.05 |
| | | 3690.0 | -1.20 | 1 / 25 | 23.19 | 21.99 | 0.158 | 23.00 | -1.01 |
| 보 | | 3560.0 | -1.20 | 1 / 49 | 23.06 | 21.86 | 0.153 | 23.00 | -1.14 |
| 20 MHz | QPSK | 3625.0 | -1.20 | 1 / 1 | 23.20 | 22.00 | 0.158 | 23.00 | -1.00 |
| 20 | | 3690.0 | -1.20 | 1 / 25 | 22.95 | 21.75 | 0.150 | 23.00 | -1.25 |
| | 16-QAM | 3560.0 | -1.20 | 1 / 25 | 22.18 | 20.98 | 0.125 | 23.00 | -2.02 |
| | 64-QAM | 3560.0 | -1.20 | 1 / 25 | 21.12 | 19.92 | 0.098 | 23.00 | -3.08 |
| | 256-QAM | 3625.0 | -1.20 | 1 / 25 | 18.21 | 17.01 | 0.050 | 23.00 | -5.99 |
| | | 3565.0 | -1.20 | 1 / 1 | 23.06 | 21.86 | 0.153 | 23.00 | -1.14 |
| | π/2 BPSK | 3625.0 | -1.20 | 1 / 39 | 23.20 | 22.00 | 0.158 | 23.00 | -1.00 |
| | | 3685.0 | -1.20 | 1 / 1 | 23.19 | 21.99 | 0.158 | 23.00 | -1.01 |
| 30 MHz | | 3565.0 | -1.20 | 1 / 75 | 23.16 | 21.96 | 0.157 | 23.00 | -1.04 |
| Ξ | QPSK | 3625.0 | -1.20 | 1 / 39 | 23.05 | 21.85 | 0.153 | 23.00 | -1.15 |
| 30 | | 3685.0 | -1.20 | 1 / 39 | 23.14 | 21.94 | 0.156 | 23.00 | -1.06 |
| | 16-QAM | 3565.0 | -1.20 | 1 / 75 | 22.17 | 20.97 | 0.125 | 23.00 | -2.03 |
| | 64-QAM | 3685.0 | -1.20 | 1 / 39 | 21.17 | 19.97 | 0.099 | 23.00 | -3.03 |
| | 256-QAM | 3625.0 | -1.20 | 1 / 75 | 18.24 | 17.04 | 0.051 | 23.00 | -5.96 |
| | | 3570.0 | -1.20 | 1 / 104 | 23.03 | 21.83 | 0.152 | 23.00 | -1.17 |
| | π/2 BPSK | 3625.0 | -1.20 | 1 / 1 | 22.87 | 21.67 | 0.147 | 23.00 | -1.33 |
| | | 3680.0 | -1.20 | 1 / 53 | 22.90 | 21.70 | 0.148 | 23.00 | -1.30 |
| . | | 3570.0 | -1.20 | 1 / 1 | 22.85 | 21.65 | 0.146 | 23.00 | -1.35 |
| 40 MHz | QPSK | 3625.0 | -1.20 | 1 / 1 | 23.20 | 22.00 | 0.158 | 23.00 | -1.00 |
| | | 3680.0 | -1.20 | 1 / 53 | 23.14 | 21.94 | 0.156 | 23.00 | -1.06 |
| | 16-QAM | 3570.0 | -1.20 | 1 / 104 | 22.21 | 21.01 | 0.126 | 23.00 | -1.99 |
| | 64-QAM | 3625.0 | -1.20 | 1/1 | 21.22 | 20.02 | 0.100 | 23.00 | -2.98 |
| | 256-QAM | 3680.0 | -1.20 | 1/1 | 18.30 | 17.10 | 0.051 | 23.00 | -5.90 |

Table 7-3. EIRP Data (NR Band n48)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager | |
|---------------------|-----------------------|--|-----------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg F4 of CO | |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 54 of 69 | |



Antenna 4b - EIRP

| Bandwidth | Mod. | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | EIRP [dBm/10MHz] | EIRP [Watts/10MHz] | EIRP Limit [dBm/10MHz] | Margin [dB] |
|-----------|----------|--------------------|--------------------|-------------------|--------------------------|---------------------|-----------------------|---------------------------|-------------|
| | | 3555.0 | -1.60 | 1 / 23 | 23.60 | 22.00 | 0.158 | 23.00 | -1.00 |
| | π/2 BPSK | 3625.0 | -1.60 | 1 / 23 | 23.55 | 21.95 | 0.157 | 23.00 | -1.05 |
| | | 3695.0 | -1.60 | 1 / 23 | 23.50 | 21.90 | 0.155 | 23.00 | -1.10 |
| 7 | | 3555.0 | -1.60 | 1/1 | 23.55 | 21.95 | 0.157 | 23.00 | -1.05 |
| 10 MHz | QPSK | 3625.0 | -1.60 | 1 / 1 | 23.44 | 21.84 | 0.153 | 23.00 | -1.16 |
| 10 | | 3695.0 | -1.60 | 1 / 23 | 23.39 | 21.79 | 0.151 | 23.00 | -1.21 |
| | 16-QAM | 3695.0 | -1.60 | 1 / 12 | 22.55 | 20.95 | 0.124 | 23.00 | -2.05 |
| | 64-QAM | 3555.0 | -1.60 | 1/1 | 21.52 | 19.92 | 0.098 | 23.00 | -3.08 |
| | 256-QAM | 3695.0 | -1.60 | | -5.90 | | | | |
| | | 3560.0 | -1.60 | 1 / 49 | 23.55 | 21.95 | 0.157 | 23.00 | -1.05 |
| | π/2 BPSK | 3625.0 | -1.60 | 1 / 25 | 23.59 | 21.99 | 0.158 | 23.00 | -1.01 |
| | | 3690.0 | -1.60 | 1 / 25 | 23.42 | 21.82 | 0.152 | 23.00 | -1.18 |
| 7 | QPSK | 3560.0 | -1.60 | 1 / 49 | 23.60 | 22.00 | 0.158 | 23.00 | -1.00 |
| 20 MHz | | 3625.0 | -1.60 | 1/1 | 23.60 | 22.00 | 0.158 | 23.00 | -1.00 |
| 20 | | 3690.0 | -1.60 | 1 / 1 | 23.58 | 21.98 | 0.158 | 23.00 | -1.02 |
| | 16-QAM | 3560.0 | -1.60 | 1 / 25 | 22.55 | 20.95 | 0.124 | 23.00 | -2.05 |
| | 64-QAM | 3625.0 | -1.60 | 1 / 49 | 21.58 | 19.98 | 0.100 | 23.00 | -3.02 |
| | 256-QAM | 3690.0 | -1.60 | 1 / 49 | 18.68 | 17.08 | 0.051 | 23.00 | -5.92 |
| | π/2 BPSK | 3565.0 | -1.60 | 1 / 39 | 23.49 | 21.89 | 0.155 | 23.00 | -1.11 |
| | | 3625.0 | -1.60 | 1 / 39 | 23.60 | 22.00 | 0.158 | 23.00 | -1.00 |
| | | 3685.0 | -1.60 | 1 / 39 | 23.43 | 21.83 | 0.152 | 23.00 | -1.17 |
| Ž. | | 3565.0 | -1.60 | 1 / 39 | 23.46 | 21.86 | 0.153 | 23.00 | -1.14 |
| 30 MHz | QPSK | 3625.0 | -1.60 | 1 / 39 | 23.33 | 21.73 | 0.149 | 23.00 | -1.27 |
| 30 | | 3685.0 | -1.60 | 1/1 | 23.52 | 21.92 | 0.156 | 23.00 | -1.08 |
| | 16-QAM | 3685.0 | -1.60 | 1 / 39 | 22.57 | 20.97 | 0.125 | 23.00 | -2.03 |
| | 64-QAM | 3685.0 | -1.60 | 1/1 | 21.62 | 20.02 | 0.100 | 23.00 | -2.98 |
| | 256-QAM | 3565.0 | -1.60 | 1/1 | 18.75 | 17.15 | 0.052 | 23.00 | -5.85 |
| | | 3570.0 | -1.60 | 1/1 | 23.58 | 21.98 | 0.158 | 23.00 | -1.02 |
| | π/2 BPSK | 3625.0 | -1.60 | 1 / 53 | 23.60 | 22.00 | 0.158 | 23.00 | -1.00 |
| | | 3680.0 | -1.60 | 1 / 104 | 23.57 | 21.97 | 0.157 | 23.00 | -1.03 |
| 7 | | 3570.0 | -1.60 | 1 / 53 | 23.59 | 21.99 | 0.158 | 23.00 | -1.01 |
| 40 MHz | QPSK | 3625.0 | -1.60 | 1 / 104 | 23.53 | 21.93 | 0.156 | 23.00 | -1.07 |
| 40 | | 3680.0 | -1.60 | 1 / 104 | 23.51 | 21.91 | 0.155 | 23.00 | -1.09 |
| | 16-QAM | 3570.0 | -1.60 | 1 / 53 | 22.49 | 20.89 | 0.123 | 23.00 | -2.11 |
| | 64-QAM | 3570.0 | -1.60 | 1/1 | 21.59 | 19.99 | 0.100 | 23.00 | -3.01 |
| | 256-QAM | 3680.0 | -1.60 | 1/1 | 18.69 | 17.09 | 0.051 | 23.00 | -5.91 |

Table 7-4. EIRP Data (NR Band n48)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager | |
|---------------------|-----------------------|--|-----------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg FF of CO | |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 55 of 69 | |



Antenna 2a - EIRP

| Bandwidth | Mod. | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | EIRP [dBm/10MHz] | EIRP [Watts/10MHz] | EIRP Limit [dBm/10MHz] | Margin [dB] |
|-----------|----------|--------------------|--------------------|-------------------|--------------------------|---------------------|-----------------------|---------------------------|-------------|
| | | 3555.0 | 1.80 | 1 / 12 | 20.20 | 22.00 | 0.158 | 23.00 | -1.00 |
| | π/2 BPSK | 3625.0 | 1.80 | 1 / 23 | 20.10 | 21.90 | 0.155 | 23.00 | -1.10 |
| | | 3695.0 | 1.80 | 1 / 12 | 20.14 | 21.94 | 0.156 | 23.00 | -1.06 |
| 꿒 | | 3555.0 | 1.80 | 1 / 23 | 20.07 | 21.87 | 0.154 | 23.00 | -1.13 |
| 10 MHz | QPSK | 3625.0 | 1.80 | 1 / 23 | 20.19 | 21.99 | 0.158 | 23.00 | -1.01 |
| 10 | | 3695.0 | 1.80 | 1 / 12 | 20.14 | 21.94 | 0.156 | 23.00 | -1.06 |
| | 16-QAM | 3625.0 | 1.80 | 1/1 | 19.20 | 21.00 | 0.126 | 23.00 | -2.00 |
| | 64-QAM | 3555.0 | 1.80 | 1 / 1 | 18.18 | 19.98 | 0.100 | 23.00 | -3.02 |
| | 256-QAM | 3625.0 | 1.80 | 1 / 12 | 15.31 | 17.11 | 0.051 | 23.00 | -5.89 |
| | | 3560.0 | 1.80 | 1 / 25 | 19.98 | 21.78 | 0.151 | 23.00 | -1.22 |
| | π/2 BPSK | 3625.0 | 1.80 | 1 / 1 | 20.10 | 21.90 | 0.155 | 23.00 | -1.10 |
| | | 3690.0 | 1.80 | 1 / 49 | 19.78 | 21.58 | 0.144 | 23.00 | -1.42 |
| 무 | | 3560.0 | 1.80 | 1 / 49 | 19.78 | 21.58 | 0.144 | 23.00 | -1.42 |
| 20 MHz | QPSK | 3625.0 | 1.80 | 1/1 | 20.14 | 21.94 | 0.156 | 23.00 | -1.06 |
| 20 | | 3690.0 | 1.80 | 1 / 25 | 20.20 | 22.00 | 0.158 | 23.00 | -1.00 |
| | 16-QAM | 3560.0 | 1.80 | 1/1 | 19.17 | 20.97 | 0.125 | 23.00 | -2.03 |
| | 64-QAM | 3560.0 | 1.80 | 1 / 25 | 18.20 | 20.00 | 0.100 | 23.00 | -3.00 |
| | 256-QAM | 3625.0 | 1.80 | 1/1 | 15.31 | 17.11 | 0.051 | 23.00 | -5.89 |
| | | 3565.0 | 1.80 | 1 / 39 | 20.20 | 22.00 | 0.158 | 23.00 | -1.00 |
| | π/2 BPSK | 3625.0 | 1.80 | 1 / 75 | 19.86 | 21.66 | 0.147 | 23.00 | -1.34 |
| | | 3685.0 | 1.80 | 1 / 1 | 20.09 | 21.89 | 0.155 | 23.00 | -1.11 |
| 꾸 | | 3565.0 | 1.80 | 1 / 39 | 19.92 | 21.72 | 0.149 | 23.00 | -1.28 |
| 30 MHz | QPSK | 3625.0 | 1.80 | 1 / 39 | 20.01 | 21.81 | 0.152 | 23.00 | -1.19 |
| 30 | | 3685.0 | 1.80 | 1 / 39 | 20.04 | 21.84 | 0.153 | 23.00 | -1.16 |
| | 16-QAM | 3625.0 | 1.80 | 1 / 75 | 19.21 | 21.01 | 0.126 | 23.00 | -1.99 |
| | 64-QAM | 3685.0 | 1.80 | 1 / 75 | 18.21 | 20.01 | 0.100 | 23.00 | -2.99 |
| | 256-QAM | 3625.0 | 1.80 | 1/1 | 15.30 | 17.10 | 0.051 | 23.00 | -5.90 |
| | | 3570.0 | 1.80 | 1/1 | 20.12 | 21.92 | 0.156 | 23.00 | -1.08 |
| | Π/2 BPSK | 3625.0 | 1.80 | 1 / 1 | 20.18 | 21.98 | 0.158 | 23.00 | -1.02 |
| | | 3680.0 | 1.80 | 1 / 1 | 20.13 | 21.93 | 0.156 | 23.00 | -1.07 |
| 무 | | 3570.0 | 1.80 | 1 / 104 | 20.20 | 22.00 | 0.158 | 23.00 | -1.00 |
| 40 MHz | QPSK | 3625.0 | 1.80 | 1/1 | 19.96 | 21.76 | 0.150 | 23.00 | -1.24 |
| 40 | | 3680.0 | 1.80 | 1 / 104 | 20.20 | 22.00 | 0.158 | 23.00 | -1.00 |
| | 16-QAM | 3680.0 | 1.80 | 1/1 | 19.19 | 20.99 | 0.126 | 23.00 | -2.01 |
| | 64-QAM | 3570.0 | 1.80 | 1 / 104 | 18.21 | 20.01 | 0.100 | 23.00 | -2.99 |
| | 256-QAM | 3625.0 | 1.80 | 1 / 53 | 15.27 | 17.07 | 0.051 | 23.00 | -5.93 |

Table 7-5. EIRP Data (NR Band n48)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo EG of GO |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 56 of 69 |



7.7 Radiated Spurious Emissions

§2.1053 §96.41(e)

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized broadband hybrid antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed while the EUT is operating at maximum power and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 - Section 5.8

ANSI C63.26-2015

TIA-603-E-2016 - Section 2.2.12

Test Settings

- 1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
- 2. VBW ≥ 3 x RBW
- 3. Span = 1.5 times the OBW
- 4. No. of sweep points ≥ 2 x span / RBW
- 5. Detector = RMS
- 6. Trace mode = Max Hold (In cases where the level is within 2dB of the limit, the final measurement is taken using triggering/gating and trace averaging.)
- 7. The trace was allowed to stabilize

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg 57 of 60 |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 57 of 69 |



Test Setup

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

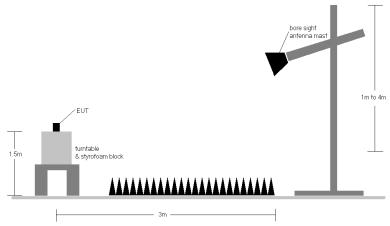


Figure 7-6. Test Instrument & Measurement Setup

Test Notes

- 1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. $E(dB\mu V/m) = Measured$ amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m)
 - b. EIRP (dBm) = $E(dB\mu V/m) + 20logD 104.8$; where D is the measurement distance in meters.
- The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The
 worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and
 channel bandwidth configurations shown in the tables below. 1RB config was found and reported as a worst
 case RB size.
- 3. This unit was tested with its standard battery.
- 4. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 8. For NR Band n48 pre-scans 1-18GHz, the RBW is set to 1MHz and VBW to 30kHz. For final measurements above 1GHz, the RBW is set to 1MHz and VBW to 3MHz when measuring with an RMS detector and max hold trace.

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg FO of CO |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 58 of 69 |



7.7.1 Antenna 3 Radiated Spurious Emissions Measurements

| Bandwidth (MHz): | 40 |
|----------------------------|--------|
| Frequency (MHz): | 3570.0 |
| Modulation Signal: | QPSK |
| RB Config (Size / Offset): | 1/53 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm/MHz] | Limit [dBm/MHz] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|--------------------|----------------|
| 7140.0 | V | - | - | -77.07 | 8.93 | 38.86 | -56.40 | -40.00 | -16.40 |
| 10710.0 | V | - | - | -78.84 | 14.88 | 43.04 | -52.22 | -40.00 | -12.22 |
| 14280.0 | V | - | • | -76.98 | 15.35 | 45.37 | -49.89 | -40.00 | -9.89 |

Table 7-6. Radiated Spurious Data (NR Band n48 – Low Channel)

| Bandwidth (MHz): | 40 |
|----------------------------|--------|
| Frequency (MHz): | 3625.0 |
| Modulation Signal: | QPSK |
| RB Config (Size / Offset): | 1/53 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm/MHz] | Limit [dBm/MHz] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|--------------------|----------------|
| 7250.0 | V | - | - | -77.29 | 8.96 | 38.67 | -56.59 | -40.00 | -16.59 |
| 10875.0 | V | - | - | -79.22 | 15.24 | 43.02 | -52.24 | -40.00 | -12.24 |
| 14500.0 | V | - | - | -77.63 | 16.01 | 45.38 | -49.87 | -40.00 | -9.87 |

Table 7-7. Radiated Spurious Data (NR Band n48 - Mid Channel)

| Bandwidth (MHz): | 40 |
|----------------------------|--------|
| Frequency (MHz): | 3680.0 |
| Modulation Signal: | QPSK |
| RB Config (Size / Offset): | 1/53 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm/MHz] | Limit [dBm/MHz] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|--------------------|----------------|
| 7360.0 | V | - | - | -77.58 | 9.33 | 38.75 | -56.51 | -40.00 | -16.51 |
| 11040.0 | V | - | - | -79.72 | 15.87 | 43.15 | -52.11 | -40.00 | -12.11 |
| 14720.0 | V | - | • | -78.12 | 16.67 | 45.55 | -49.71 | -40.00 | -9.71 |

Table 7-8. Radiated Spurious Data (NR Band n48 – High Channel)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogg FO of CO |
| 1C2305090017-01.BCG | 05/30/2022-09/09/2022 | Tablet Device | Page 59 of 69 |



7.7.3 Antenna 1 Radiated Spurious Emissions Measurements

| Bandwidth (MHz): | 40 |
|----------------------------|--------|
| Frequency (MHz): | 3570.0 |
| Modulation Signal: | QPSK |
| RB Config (Size / Offset): | 1/53 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm/MHz] | Limit [dBm/MHz] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|--------------------|----------------|
| 7140.0 | Н | - | - | -77.08 | 8.93 | 38.85 | -56.41 | -40.00 | -16.41 |
| 10710.0 | Н | - | - | -78.93 | 14.88 | 42.95 | -52.31 | -40.00 | -12.31 |
| 14280.0 | Н | - | - | -77.90 | 15.35 | 44.45 | -50.81 | -40.00 | -10.81 |

Table 7-9. Radiated Spurious Data (NR Band n48 – Low Channel)

| Bandwidth (MHz): | 40 |
|----------------------------|--------|
| Frequency (MHz): | 3625.0 |
| Modulation Signal: | QPSK |
| RB Config (Size / Offset): | 1/53 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm/MHz] | Limit [dBm/MHz] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|--------------------|----------------|
| 7250.0 | Н | - | - | -77.31 | 8.96 | 38.65 | -56.61 | -40.00 | -16.61 |
| 10875.0 | Н | - | - | -79.17 | 15.24 | 43.07 | -52.19 | -40.00 | -12.19 |
| 14500.0 | Н | - | - | -77.47 | 16.01 | 45.54 | -49.71 | -40.00 | -9.71 |

Table 7-10. Radiated Spurious Data (NR Band n48 - Mid Channel)

| Bandwidth (MHz): | 40 |
|----------------------------|--------|
| Frequency (MHz): | 3680.0 |
| Modulation Signal: | QPSK |
| RB Config (Size / Offset): | 1/53 |

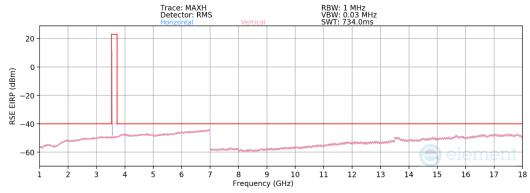
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm/MHz] | Limit [dBm/MHz] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|--------------------|----------------|
| 7360.0 | Н | - | - | -77.56 | 9.33 | 38.77 | -56.49 | -40.00 | -16.49 |
| 11040.0 | Н | - | - | -79.02 | 15.87 | 43.85 | -51.41 | -40.00 | -11.41 |
| 14720.0 | Н | - | - | -77.96 | 16.67 | 45.71 | -49.55 | -40.00 | -9.55 |

Table 7-11. Radiated Spurious Data (NR Band n48 – High Channel)

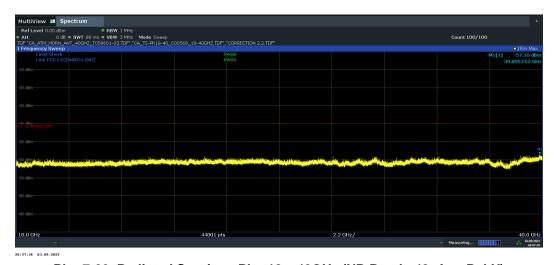
| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
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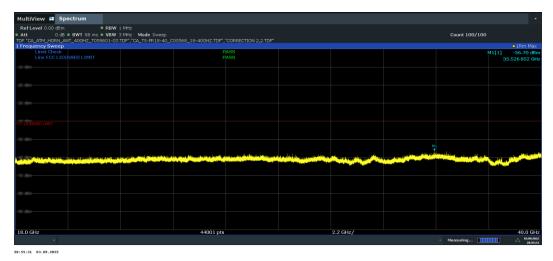
7.7.4 Antenna 4b Radiated Spurious Emissions Measurements



Plot 7-65. Radiated Spurious Plot 1 – 18GHz (NR Band n48)



Plot 7-66. Radiated Spurious Plot 18 - 40GHz (NR Band n48, Ant. Pol H)



Plot 7-67. Radiated Spurious Plot 18 - 40GHz (NR Band n48, Ant. Pol V)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
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| Bandwidth (MHz): | 40 |
|----------------------------|--------|
| Frequency (MHz): | 3570.0 |
| Modulation Signal: | QPSK |
| RB Config (Size / Offset): | 1/53 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm/MHz] | Limit [dBm/MHz] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|--------------------|----------------|
| 7140.0 | Н | - | - | -77.85 | 8.93 | 38.08 | -57.18 | -40.00 | -17.18 |
| 10710.0 | Н | - | - | -78.90 | 14.88 | 42.98 | -52.28 | -40.00 | -12.28 |
| 14280.0 | Н | - | - | -77.22 | 15.35 | 45.13 | -50.13 | -40.00 | -10.13 |

Table 7-12. Radiated Spurious Data (NR Band n48 – Low Channel)

| Bandwidth (MHz): | 40 |
|----------------------------|--------|
| Frequency (MHz): | 3625.0 |
| Modulation Signal: | QPSK |
| RB Config (Size / Offset): | 1/53 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm/MHz] | Limit [dBm/MHz] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|--------------------|----------------|
| 7250.0 | Н | - | - | -77.32 | 8.96 | 38.64 | -56.62 | -40.00 | -16.62 |
| 10875.0 | Н | - | - | -79.79 | 15.24 | 42.45 | -52.81 | -40.00 | -12.81 |
| 14500.0 | Н | - | - | -77.74 | 16.01 | 45.27 | -49.98 | -40.00 | -9.98 |

Table 7-13. Radiated Spurious Data (NR Band n48 – Mid Channel)

| Bandwidth (MHz): | 40 |
|----------------------------|--------|
| Frequency (MHz): | 3680.0 |
| Modulation Signal: | QPSK |
| RB Config (Size / Offset): | 1/53 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm/MHz] | Limit [dBm/MHz] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|--------------------|----------------|
| 7360.0 | Н | - | - | -77.63 | 9.33 | 38.70 | -56.56 | -40.00 | -16.56 |
| 11040.0 | Н | - | - | -79.55 | 15.87 | 43.32 | -51.94 | -40.00 | -11.94 |
| 14720.0 | Н | - | - | -78.59 | 16.67 | 45.08 | -50.18 | -40.00 | -10.18 |

Table 7-14. Radiated Spurious Data (NR Band n48 – High Channel)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
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7.7.5 Antenna 2a Radiated Spurious Emissions Measurements

| Bandwidth (MHz): | 40 |
|----------------------------|--------|
| Frequency (MHz): | 3570.0 |
| Modulation Signal: | QPSK |
| RB Config (Size / Offset): | 1/53 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm/MHz] | Limit [dBm/MHz] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|--------------------|----------------|
| 7140.0 | Н | - | - | -79.47 | 8.93 | 36.46 | -58.80 | -40.00 | -18.80 |
| 10710.0 | Н | - | - | -82.77 | 14.88 | 39.11 | -56.15 | -40.00 | -16.15 |
| 14280.0 | Н | - | - | -83.11 | 15.35 | 39.24 | -56.02 | -40.00 | -16.02 |

Table 7-15. Radiated Spurious Data (NR Band n48 – Low Channel)

| Bandwidth (MHz): | 40 |
|----------------------------|--------|
| Frequency (MHz): | 3625.0 |
| Modulation Signal: | QPSK |
| RB Config (Size / Offset): | 1/53 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm/MHz] | Limit [dBm/MHz] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|--------------------|----------------|
| 7250.0 | Н | - | - | -79.37 | 8.96 | 36.59 | -58.67 | -40.00 | -18.67 |
| 10875.0 | Н | - | - | -83.15 | 15.24 | 39.09 | -56.17 | -40.00 | -16.17 |
| 14500.0 | Н | - | - | -83.65 | 16.01 | 39.36 | -55.89 | -40.00 | -15.89 |

Table 7-16. Radiated Spurious Data (NR Band n48 - Mid Channel)

| Bandwidth (MHz): | 40 |
|----------------------------|--------|
| Frequency (MHz): | 3680.0 |
| Modulation Signal: | QPSK |
| RB Config (Size / Offset): | 1/53 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm/MHz] | Limit [dBm/MHz] | Margin [dB] |
|-----------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|--------------------|----------------|
| 7360.0 | Н | - | - | -79.64 | 9.33 | 36.69 | -58.57 | -40.00 | -18.57 |
| 11040.0 | Н | - | - | -82.81 | 15.87 | 40.06 | -55.20 | -40.00 | -15.20 |
| 14720.0 | Н | - | - | -84.19 | 16.67 | 39.48 | -55.78 | -40.00 | -15.78 |

Table 7-17. Radiated Spurious Data (NR Band n48 – High Channel)

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
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7.8 Frequency Stability / Temperature Variation §2.1055

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015 and TIA-603-E-2016. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 96, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015

TIA-603-E-2016

Test Settings

- 1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

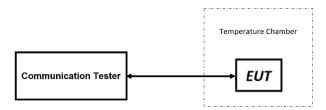


Figure 7-7. Test Instrument & Measurement Setup

Test Notes

All ports were tested and only the worst case data were reported.

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Frequency Stability / Temperature Variation

| NR Band | n48 | | | | | | |
|------------------|-----------------------------|------------------|-------------------|--------------------|------------------------|-------------------------|---------------|
| | Low Channel Frequency (Hz): | | | | 3,570,000,000 | | |
| | High C | hannel Frequenc | y (Hz): | | 3,680,000,000 | | |
| | R | ef. Voltage (VD0 | C): | | 3.80 | | |
| | | | | | | | |
| Voltage (%) | Power (VDC) | Temp (°C) | Low Freq. (Hz) | High Freq. (Hz) | Low Freq. Dev. (Hz) | High Freq. Dev. (Hz) | Deviation (%) |
| | | - 30 | 3,569,999,025 | 3,570,000,925 | -476 | 473 | -0.000013333 |
| | | - 20 | 3,569,999,024 | 3,570,000,932 | -477 | 480 | 0.000013445 |
| | | - 10 | 3,569,999,023 | 3,570,000,940 | -478 | 488 | 0.000013669 |
| | | 0 | 3,569,999,021 | 3,570,000,934 | -480 | 482 | 0.000013501 |
| 100 % | 3.80 | + 10 | 3,569,999,000 | 3,570,000,917 | -501 | 465 | -0.000014034 |
| | | + 20 (Ref) | 3,569,999,501 | 3,570,000,452 | 0 | 0 | 0.000000000 |
| | | + 30 | 3,569,999,020 | 3,570,000,971 | -481 | 519 | 0.000014538 |
| | | + 40 | 3,569,999,021 | 3,570,000,955 | -480 | 503 | 0.000014090 |
| | + 50 | 3,569,999,019 | 3,570,000,952 | -482 | 500 | 0.000014006 | |
| Battery Endpoint | 3.23 | + 20 | 3,569,999,009 | 3,570,000,953 | -492 | 501 | 0.000014034 |

Table 7-18. NR Band n48 Frequency Stability Data

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7.9 End User Device Additional Requirement (CBSD Protocol)

§96.47

Test Overview and Limit

End user device additional requirements (CBSD Protocol) are tested per the test procedures listed below. During testing, the EUT is connected to a certified CBSD (AirSpan FCC ID: PIDAV2700) as a companion device to show compliance with Part 96.47.

End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.

An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

Test Procedure Used

KDB 940660 D01 v03

WINNF-TS-0122 v1.0.2

Test Setup/Method

The EUT was connected via an RF cable to a certified CBSD and spectrum analyzer. The following procedure is performed by applying WINNF-TS-0122 CBRS CBSD Test Specification.

- 1. Run#1:
 - a. Setup WINNF.PT.C.HBT.1 with 3560 3580MHz.
 - b. Enable AP/CBSD service.
 - c. Check EUT Tx frequency.
 - d. Disable AP/CBSD service and check EUT stop transmission within 10s.
- 2. Run#2:
 - a. Setup WINNF.PT.C.HBT.1 with 3640 3660MHz.
 - b. Enable AP/CBSD service.
 - c. Check EUT Tx frequency.
 - d. Disable AP/CBSD service and check EUT stop transmission within 10s.

Test Notes

The EUT is an End User Device.

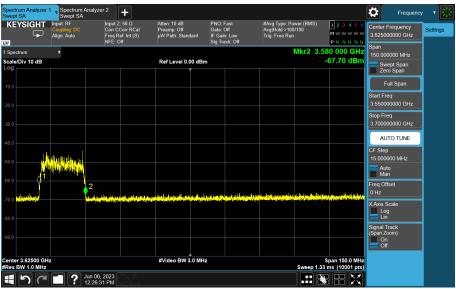
| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
|---------------------|-----------------------|--|-----------------------------------|
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Run#1:

Tx Frequency Set: 3560 – 3580MHz

• MaxEIRP Set: 10dBm/MHz



Plot 7-68. Run#1 End User Device Frequency of Operations



Plot 7-69. Run#1 End User Device Discontinues Operations within 10s

Note:

Marker 1: CBSD sends instructions to discontinue NR operations.

Marker 2: EUT discontinues operation.

Marker 3: 10 seconds elapsed time from CBSD sending instructions to EUT.

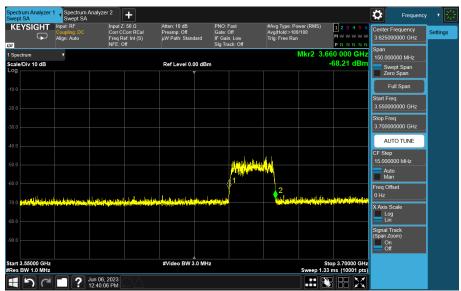
| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
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Run#2:

Tx Frequency Set: 3640 – 3660MHz

MaxEIRP Set: 10dBm/MHz



Plot 7-70. Run#2 End User Device Frequency of Operations



Plot 7-71. Run#2 End User Device Discontinues Operations within 10s

Note:

Marker 1: CBSD sends instructions to discontinue NR operations.

Marker 2: EUT discontinues operation.

Marker 3: 10 seconds elapsed time from CBSD sending instructions to EUT.

| FCC ID: BCGA2435 | element | PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE | Approved by: Technical Manager |
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CONCLUSION

The data collected relate only to the item(s) tested and show that the Apple Tablet Devices FCC ID: BCGA2435 complies with all of the End User Device requirements of Part 96 of the FCC Rules.

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