



## ELEMENT WASHINGTON DC LLC

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### Part 96 MEASUREMENT REPORT

**Applicant Name:**

Microsoft Corporation  
One Microsoft Way  
Redmond, WA 98052  
United States

**Date of Testing:**

12/3/2024 – 4/29/2025

**Test Report Issue Date:**

4/29/2025

**Test Site/Location:**

Element Lab., Columbia, MD, USA

**Test Report Serial No.:**

1M2411190103-07-R3.C3K

**FCC ID:**

C3K2114

**APPLICANT:**

Microsoft Corporation

**Application Type:**

Certification

**Model:**

2114

**EUT Type:**

Full Modular

**FCC Classification:**

Citizens Band End User Devices (CBE)

**FCC Rule Part(s):**

96

**Test Procedure(s):**

ANSI C63.26-2015, KDB 940660 D01 v03,  
WINNF-TS-0122 v1.0.2

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.

This revised Test Report (S/N: 1M2411190103-07-R3.C3K) supersedes and replaces the previously issued test report (S/N: 1M2411190103-07-R2.C3K) on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

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

RJ Ortanez  
Executive Vice President



|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 1 of 146                     |

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## MEASUREMENT REPORT

### FCC Part 96

| Antenna-6           |           |              |                          |                |                  |                     |
|---------------------|-----------|--------------|--------------------------|----------------|------------------|---------------------|
| Mode                | Bandwidth | Modulation   | Tx Frequency Range [MHz] | EIRP           |                  | Emission Designator |
|                     |           |              |                          | Max. Power [W] | Max. Power [dBm] |                     |
| ULCA<br>LTE Band 48 | 40 MHz    | QPSK         | 3570.0 - 3680.0          | 0.166          | 22.19            | 37M7G7D             |
|                     |           | 16QAM        | 3570.0 - 3680.0          | 0.131          | 21.18            | 37M6W7D             |
|                     | 35 MHz    | QPSK         | 3567.5 - 3682.5          | 0.163          | 22.12            | 32M8G7D             |
|                     |           | 16QAM        | 3567.5 - 3682.5          | 0.131          | 21.16            | 32M9W7D             |
|                     | 30 MHz    | QPSK         | 3565.0 - 3685.0          | 0.165          | 22.17            | 27M8G7D             |
|                     |           | 16QAM        | 3565.0 - 3685.0          | 0.164          | 22.14            | 27M9W7D             |
|                     | 25 MHz    | QPSK         | 3562.5 - 3687.5          | 0.166          | 22.20            | 22M9G7D             |
|                     |           | 16QAM        | 3562.5 - 3687.5          | 0.131          | 21.16            | 22M9W7D             |
| LTE Band 48         | 20 MHz    | QPSK         | 3560.0 - 3690.0          | 0.140          | 21.47            | 18M0G7D             |
|                     |           | 16QAM        | 3560.0 - 3690.0          | 0.113          | 20.53            | 18M1W7D             |
|                     | 15 MHz    | QPSK         | 3557.5 - 3692.5          | 0.142          | 21.52            | 13M5G7D             |
|                     |           | 16QAM        | 3557.5 - 3692.5          | 0.117          | 20.67            | 13M5W7D             |
|                     | 10 MHz    | QPSK         | 3555.0 - 3695.0          | 0.148          | 21.70            | 8M99G7D             |
|                     |           | 16QAM        | 3555.0 - 3695.0          | 0.120          | 20.80            | 9M01W7D             |
|                     | 5 MHz     | QPSK         | 3552.5 - 3697.5          | 0.149          | 21.74            | 4M51G7D             |
|                     |           | 16QAM        | 3552.5 - 3697.5          | 0.122          | 20.86            | 4M49W7D             |
| NR Band n48         | 40 MHz    | $\pi/2$ BPSK | 3570.0 - 3680.0          | 0.198          | 22.98            | 35M9G7D             |
|                     |           | QPSK         | 3570.0 - 3680.0          | 0.198          | 22.97            | 38M1G7D             |
|                     |           | 16QAM        | 3570.0 - 3680.0          | 0.165          | 22.18            | 38M0W7D             |
|                     | 30 MHz    | $\pi/2$ BPSK | 3565.0 - 3685.0          | 0.196          | 22.93            | 26M9G7D             |
|                     |           | QPSK         | 3565.0 - 3685.0          | 0.198          | 22.96            | 28M0G7D             |
|                     |           | 16QAM        | 3565.0 - 3685.0          | 0.165          | 22.17            | 28M0W7D             |
|                     | 20 MHz    | $\pi/2$ BPSK | 3560.0 - 3690.0          | 0.199          | 22.99            | 18M1G7D             |
|                     |           | QPSK         | 3560.0 - 3690.0          | 0.198          | 22.97            | 18M3G7D             |
|                     |           | 16QAM        | 3560.0 - 3690.0          | 0.165          | 22.18            | 18M4W7D             |
|                     | 15 MHz    | $\pi/2$ BPSK | 3557.5 - 3692.5          | 0.199          | 22.99            | 13M0G7D             |
|                     |           | QPSK         | 3557.5 - 3692.5          | 0.199          | 22.98            | 13M7G7D             |
|                     |           | 16QAM        | 3557.5 - 3692.5          | 0.168          | 22.24            | 13M8W7D             |
|                     | 10 MHz    | $\pi/2$ BPSK | 3555.0 - 3695.0          | 0.195          | 22.90            | 8M73G7D             |
|                     |           | QPSK         | 3555.0 - 3695.0          | 0.196          | 22.93            | 8M69G7D             |
|                     |           | 16QAM        | 3555.0 - 3695.0          | 0.165          | 22.17            | 8M66W7D             |

#### EUT Overview

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
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| Antenna-1   |           |              |                          |                |                  |                     |
|-------------|-----------|--------------|--------------------------|----------------|------------------|---------------------|
| Mode        | Bandwidth | Modulation   | Tx Frequency Range [MHz] | EIRP           |                  | Emission Designator |
|             |           |              |                          | Max. Power [W] | Max. Power [dBm] |                     |
| LTE Band 48 | 20 MHz    | QPSK         | 3560.0 - 3690.0          | 0.195          | 22.90            | 18M0G7D             |
|             |           | 16QAM        | 3560.0 - 3690.0          | 0.162          | 22.08            | 18M0W7D             |
|             | 15 MHz    | QPSK         | 3557.5 - 3692.5          | 0.196          | 22.91            | 13M5G7D             |
|             |           | 16QAM        | 3557.5 - 3692.5          | 0.160          | 22.04            | 13M5W7D             |
|             | 10 MHz    | QPSK         | 3555.0 - 3695.0          | 0.199          | 22.98            | 9M01G7D             |
|             |           | 16QAM        | 3555.0 - 3695.0          | 0.168          | 22.26            | 9M02W7D             |
|             | 5 MHz     | QPSK         | 3552.5 - 3697.5          | 0.198          | 22.97            | 4M49G7D             |
|             |           | 16QAM        | 3552.5 - 3697.5          | 0.155          | 21.91            | 4M52W7D             |
| NR Band n48 | 40 MHz    | $\pi/2$ BPSK | 3570.0 - 3680.0          | 0.195          | 22.90            | 35M8G7D             |
|             |           | QPSK         | 3570.0 - 3680.0          | 0.198          | 22.96            | 38M0G7D             |
|             |           | 16QAM        | 3570.0 - 3680.0          | 0.162          | 22.10            | 38M1W7D             |
|             | 30 MHz    | $\pi/2$ BPSK | 3565.0 - 3685.0          | 0.196          | 22.93            | 27M0G7D             |
|             |           | QPSK         | 3565.0 - 3685.0          | 0.195          | 22.91            | 28M0G7D             |
|             |           | 16QAM        | 3565.0 - 3685.0          | 0.156          | 21.92            | 28M1W7D             |
|             | 20 MHz    | $\pi/2$ BPSK | 3560.0 - 3690.0          | 0.197          | 22.95            | 18M0G7D             |
|             |           | QPSK         | 3560.0 - 3690.0          | 0.198          | 22.96            | 18M3G7D             |
|             |           | 16QAM        | 3560.0 - 3690.0          | 0.165          | 22.18            | 18M3W7D             |
|             | 15 MHz    | $\pi/2$ BPSK | 3557.5 - 3692.5          | 0.195          | 22.91            | 13M0G7D             |
|             |           | QPSK         | 3557.5 - 3692.5          | 0.193          | 22.86            | 13M7G7D             |
|             |           | 16QAM        | 3557.5 - 3692.5          | 0.163          | 22.12            | 13M7W7D             |
|             | 10 MHz    | $\pi/2$ BPSK | 3555.0 - 3695.0          | 0.199          | 22.98            | 8M69G7D             |
|             |           | QPSK         | 3555.0 - 3695.0          | 0.199          | 22.99            | 8M69G7D             |
|             |           | 16QAM        | 3555.0 - 3695.0          | 0.156          | 21.93            | 8M70W7D             |

EUT Overview

| SRS Antenna-3 |           |              |                          |                |                  |                     |
|---------------|-----------|--------------|--------------------------|----------------|------------------|---------------------|
| Mode          | Bandwidth | Modulation   | Tx Frequency Range [MHz] | EIRP           |                  | Emission Designator |
|               |           |              |                          | Max. Power [W] | Max. Power [dBm] |                     |
| NR Band n48   | 40 MHz    | $\pi/2$ BPSK | 3570.0 - 3680.0          | 0.182          | 22.61            | 36M0G7D             |
|               |           | QPSK         | 3570.0 - 3680.0          | 0.176          | 22.47            | 38M1G7D             |
|               |           | 16QAM        | 3570.0 - 3680.0          | 0.150          | 21.77            | 38M0W7D             |

EUT Overview

| SRS Antenna-4 |           |              |                          |                |                  |
|---------------|-----------|--------------|--------------------------|----------------|------------------|
| Mode          | Bandwidth | Modulation   | Tx Frequency Range [MHz] | EIRP           |                  |
|               |           |              |                          | Max. Power [W] | Max. Power [dBm] |
| NR Band n48   | 40 MHz    | $\pi/2$ BPSK | 3570.0 - 3680.0          | 0.198          | 22.97            |
|               |           | QPSK         | 3570.0 - 3680.0          | 0.199          | 22.98            |
|               |           | 16QAM        | 3570.0 - 3680.0          | 0.181          | 22.58            |

EUT Overview

|                                            |                                      |                           |  |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|--|-----------------------------------|
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| Mode                            | Bandwidth | Modulation   | Tx Frequency Range [MHz] | EIRP           |                  |
|---------------------------------|-----------|--------------|--------------------------|----------------|------------------|
|                                 |           |              |                          | Max. Power [W] | Max. Power [dBm] |
| NR Band n48<br>UL MIMO Ant6 + 1 | 40 MHz    | $\pi/2$ BPSK | 3570.0 - 3680.0          | 0.154          | 21.87            |
|                                 |           | QPSK         | 3570.0 - 3680.0          | 0.147          | 21.66            |
|                                 |           | 16QAM        | 3565.0 - 3685.0          | 0.117          | 20.69            |
|                                 | 30 MHz    | $\pi/2$ BPSK | 3565.0 - 3685.0          | 0.156          | 21.93            |
|                                 |           | QPSK         | 3565.0 - 3685.0          | 0.147          | 21.66            |
|                                 |           | 16QAM        | 3565.0 - 3685.0          | 0.117          | 20.70            |
|                                 | 20 MHz    | $\pi/2$ BPSK | 3560.0 - 3690.0          | 0.156          | 21.93            |
|                                 |           | QPSK         | 3560.0 - 3690.0          | 0.164          | 22.14            |
|                                 |           | 16QAM        | 3560.0 - 3690.0          | 0.123          | 20.89            |
|                                 | 15 MHz    | $\pi/2$ BPSK | 3557.5 - 3692.5          | 0.156          | 21.92            |
|                                 |           | QPSK         | 3557.5 - 3692.5          | 0.157          | 21.96            |
|                                 |           | 16QAM        | 3557.5 - 3692.5          | 0.114          | 20.56            |
|                                 | 10 MHz    | $\pi/2$ BPSK | 3555.0 - 3695.0          | 0.158          | 21.98            |
|                                 |           | QPSK         | 3555.0 - 3695.0          | 0.151          | 21.79            |
|                                 |           | 16QAM        | 3555.0 - 3695.0          | 0.124          | 20.95            |

**Note:** EIRP levels shown in the table above are measured over the full channel bandwidth. These values will appear on the Grant of Authorization.

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
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## 1.0 INTRODUCTION

### 1.1 Scope

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

### 1.2 Element Test Location

Measurements were conducted at the Element laboratory(ies) indicated in Section 1.3 below. All measurement facilities are 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 lab located in Columbia, MD 21046, U.S.A.

- Element Washington DC LLC is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 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 Washington DC LLC facility is a registered (2451B) test laboratory with the site description on file with ISED.
- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

|                                            |                                      |                           |                                   |
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## 2.0 PRODUCT INFORMATION

### 2.1 Equipment Description

The Equipment Under Test (EUT) is the **Microsoft Corporation Full Modular FCC ID: C3K2114**. The test data contained in this report pertains only to the emissions due to the EUT's LTE Band 48 and NR Band n48 operation in the CBRS band. Per FCC Part 96, this device is evaluated as a Citizens Band End User Devices (CBE).

**Test Device Serial No.:** (004400152020002) EV2#48, EV2#37, EV2#47, EV2#49

### 2.2 Device Capabilities

This device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, Multi-band LTE, Multi-band 5G NR (FR1)

### 2.3 Test Configuration

The EUT was tested per the guidance of ANSI C63.26-2015. See Section 7.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

### 2.4 Software and Firmware

Testing was performed on device(s) using software/firmware version 250129-XXX-de2e260-00452-1 installed on the EUT.

### 2.5 EMI Suppression Device(s)/Modifications

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

|                                            |                                      |                           |                                   |
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## 3.0 DESCRIPTION OF TESTS

### 3.1 Measurement Procedure

The measurement procedures described in the “American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services” (ANSI C63.26-2015) were used in the measurement of the EUT.

**Deviation from Measurement Procedure.....None**

### 3.2 Radiated Power and 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 power measurements, substitution method is used per the guidance of ANSI C63.26-2015. For emissions below 1GHz, a half-wave dipole is substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer level previously recorded from the spurious emission from the EUT. The power of the emission is calculated using the following formula:

$$P_d \text{ [dBm]} = P_g \text{ [dBm]} - \text{cable loss [dB]} + \text{antenna gain [dBd/dBi]};$$

where  $P_d$  is the dipole equivalent power,  $P_g$  is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to  $P_g \text{ [dBm]} - \text{cable loss [dB]}$ .

For radiated spurious emissions measurements, the field strength conversion method is used per the formulas in Section 5.2.7 of ANSI C63.26-2015. Field Strength (EIRP) is calculated using the following formulas:

$$E_{\text{[dB}\mu\text{V/m]}} = \text{Measured amplitude level}_{\text{[dBm]}} + 107 + \text{Cable Loss}_{\text{[dB]}} + \text{Antenna Factor}_{\text{[dB/m]}}$$

And

$$\text{EIRP}_{\text{[dBm]}} = E_{\text{[dB}\mu\text{V/m]}} + 20\log D - 104.8; \text{ where } D \text{ is the measurement distance in meters.}$$

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4-2014. Additionally, radiated emissions below 30MHz are also validated on an Open Area Test Site to assert correlation with the chamber measurements per the requirements of KDB 414788 D01 v01r01.

Radiated power and radiated spurious emission levels are investigated with the receive antenna horizontally and vertically polarized per ANSI C63.26-2015.

|                                            |                                      |                           |                                   |
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## 4.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. 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  $U_{\text{CISPR}}$  measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

| Contribution                     | Expanded Uncertainty ( $\pm$ dB) |
|----------------------------------|----------------------------------|
| Conducted Bench Top Measurements | 1.13                             |
| Radiated Disturbance (<1GHz)     | 4.98                             |
| Radiated Disturbance (>1GHz)     | 5.07                             |
| Radiated Disturbance (>18GHz)    | 5.09                             |

**Table 4-1. Measurement Uncertainty Budget**

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
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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 |
|-----------------------|---------|-----------------------------------|------------|--------------|------------|---------------|
| -                     | LTx1    | Licensed Transmitter Cable Set    | 4/2/2024   | Annual       | 4/2/2025   | LTx1          |
| -                     | LTx2    | Licensed Transmitter Cable Set    | 4/2/2024   | Annual       | 4/2/2025   | LTx2          |
| -                     | LTx3    | Licensed Transmitter Cable Set    | 4/2/2024   | Annual       | 4/2/2025   | LTx3          |
| -                     | WL25-1  | Conducted Cable Set (25GHz)       | 4/2/2024   | Annual       | 4/2/2025   | WL25-1        |
| -                     | WL40-1  | Conducted Cable Set (40GHz)       | 4/2/2024   | Annual       | 4/2/2025   | WL40-1        |
| Agilent               | N9020A  | MXA Signal Analyzer               | 3/22/2024  | Annual       | 3/22/2025  | US46470561    |
| Agilent               | N9038A  | MXE EMI Receiver                  | 9/16/2024  | Annual       | 9/16/2025  | MY51210133    |
| Agilent               | N9030A  | PXA Signal Analyzer (44GHz)       | 4/9/2024   | Annual       | 4/9/2025   | MY52350166    |
| Anritsu               | MT8821C | Radio Communication Analyzer      | N/A        |              |            | 6201381794    |
| Anritsu               | MT8821C | Radio Communication Analyzer      | N/A        |              |            | 6200901190    |
| Emco                  | 3115    | Horn Antenna (1-18GHz)            | 6/7/2024   | Biennial     | 6/7/2026   | 150693        |
| Espec                 | ESX-2CA | Environmental Chamber             | 7/5/2023   | Annual       | 7/5/2025   | 17620         |
| ETS Lindgren          | 3164-08 | Quad Ridge Horn Antenna           | 3/29/2023  | Biennial     | 3/29/2025  | 128337        |
| Keysight Technologies | N9030A  | PXA Signal Analyzer (3Hz-26.5GHz) | 8/26/2024  | Annual       | 8/26/2025  | MY54490576    |
| Keysight Technologies | N9020A  | MXA Signal Analyzer               | 4/11/2024  | Annual       | 4/11/2025  | MY54500644    |
| Rohde & Schwarz       | CMW500  | Radio Communication Tester        | N/A        |              |            | 100976        |
| Rohde & Schwarz       | CMW500  | Radio Communication Tester        | N/A        |              |            | 112347        |
| Rohde & Schwarz       | CMW500  | Radio Communication Tester        | N/A        |              |            | 102060        |
| Rohde & Schwarz       | ESU26   | EMI Test Receiver (26.5GHz)       | 10/16/2024 | Annual       | 10/16/2025 | 100342        |
| Rohde & Schwarz       | FSW67   | Signal / Spectrum Analyzer        | 2/15/2024  | Annual       | 2/15/2025  | 103200        |
| Sunol                 | DRH-118 | Horn Antenna (1-18GHz)            | 2/21/2024  | Biennial     | 2/21/2026  | A050307       |
| Sunol                 | DRH-118 | Horn Antenna (1-18 GHz)           | 2/13/2024  | Biennial     | 2/13/2026  | A042511       |
| Sunol                 | JB5     | Bi-Log Antenna (30M - 5GHz)       | 9/11/2024  | Biennial     | 9/11/2026  | A051107       |

**Table 5-1. Test Equipment Calibration Table**

### Notes:

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

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
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## 6.0 SAMPLE EMISSION DESIGNATORS

### Emission Designator

#### QPSK Modulation

**Emission Designator = 8M62G7D**

LTE BW = 8.62 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

#### QAM Modulation

**Emission Designator = 8M45W7D**

LTE BW = 8.45 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

|                                                   |                                             |                                  |                                          |
|---------------------------------------------------|---------------------------------------------|----------------------------------|------------------------------------------|
| <b>FCC ID:</b> C3K2114                            | <b>PART 96 MEASUREMENT REPORT</b>           |                                  | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2411190103-07-R3.C3K | <b>Test Dates:</b><br>12/3/2024 – 4/29/2025 | <b>EUT Type:</b><br>Full Modular | Page 11 of 146                           |

## 7.0 TEST RESULTS

### 7.1 Summary

Company Name: Microsoft Corporation  
 FCC ID: C3K2114  
 FCC Classification: Citizens Band End User Devices (CBE)  
 Mode(s): 2114

| Test Condition | Test Description                                        | FCC Part Section(s)  | Test Limit                                                                                                                                                                                                                                                                                                                                                                    | Test Result | Reference         |
|----------------|---------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------|
| CONDUCTED      | Conducted Power                                         | 2.1046(a), 2.1046(c) | N/A                                                                                                                                                                                                                                                                                                                                                                           | PASS        | Section 7.2       |
|                | Uplink Carrier Aggregation                              | 96.41(e)             | > 43 + 10log(P[Watts]) at Band Edge and for all out-of-band emissions                                                                                                                                                                                                                                                                                                         | PASS        | Section 7.2       |
|                | Equivalent Isotropic Radiated Power (ERP) (EUD)         | 96.41(b)             | 23 dBm/10MHz                                                                                                                                                                                                                                                                                                                                                                  | PASS        | Section 7.2       |
|                | Occupied Bandwidth                                      | 2.1049(h)            | N/A                                                                                                                                                                                                                                                                                                                                                                           | PASS        | Section 7.3       |
|                | Conducted Band Edge / Spurious Emissions (CBSD)         | 2.1051, 96.41(e)(i)  | -13 dBm/MHz at frequencies within 0-10 MHz of above the upper SAS-assigned channel edge and within 0-10MHz below the lower SAS-assigned channel edge<br>-25 dBm/MHz at frequencies greater than 10 MHz above and below channel edge<br>-emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz                                                                | PASS        | Sections 7.4, 7.5 |
|                | Additional Maximum Power Reduction (A-MPR)              | 2.1046               | N/A                                                                                                                                                                                                                                                                                                                                                                           | PASS        | Section 7.2       |
|                | Frequency Stability                                     | 2.1055               | Fundamental emissions stay within authorized frequency block                                                                                                                                                                                                                                                                                                                  | PASS        | Section 7.7       |
|                | 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.<br>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 7.8       |
| RADIATED       | Radiated Spurious Emissions                             | 2.1053, 96.41(e)     | -40 dBm/MHz                                                                                                                                                                                                                                                                                                                                                                   | PASS        | Section 7.6       |

**Table 7-1. Summary of Test Results**

#### Notes:

- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 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) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is EMC Software Tool v2.3.0.

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
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| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 12 of 146                    |

## 7.2 Conducted Output Power Data and EIRP

### Test Overview

The EUT is set up to transmit at maximum power for LTE. All power levels are measured with a callbox 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.

A-MPR is implemented in this device per the A-MPR specification in 3GPP TS 36.101. The conducted powers are shown herein to cover the different A-MPR levels specified in the standard. Measurement equipment was set up with triggering/gating on the spectrum analyzer such that powers were measured only during the on-time of the signal.

### Test Setup

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



**Figure 7-1. Test Instrument & Measurement Setup**

### Test Notes

1. A-MPR was only applied for test purposes to the 2CC case since the 1CC case was compliant for all testing at max power.
2. A-MPR was verified to comply with the "CA\_NS\_10" specification in the 3GPP TS 36.101 standard by setting the MCC to a U.S. code and the MNC to a U.S. carrier supporting LTE B48 operation.
3. 256QAM operations does not employ A-MPR.
4. ERP is calculated using conducted power and antenna gain.
5. This unit was tested using a power supply.
6. Conducted power measurements were evaluated using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
7. Conducted power was found to reduce for the higher order QAM modulations when compared to 16QAM. Due to this trend, only the worst-case QAM (16QAM) powers are included in this section.
8. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) 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.

|                                                   |                                             |                                  |                                          |
|---------------------------------------------------|---------------------------------------------|----------------------------------|------------------------------------------|
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| <b>Test Report S/N:</b><br>1M2411190103-07-R3.C3K | <b>Test Dates:</b><br>12/3/2024 – 4/29/2025 | <b>EUT Type:</b><br>Full Modular | Page 13 of 146                           |

| Bandwidth | Modulation | PCC             |                 |             | SCC             |                 |             | Conducted Power [dBm] | Ant. Gain [dBi] | EIRP [dBm/10MHz] | EIRP [Watts/10MHz] | EIRP Limit [dBm/10MHz] | Margin [dB] |
|-----------|------------|-----------------|-----------------|-------------|-----------------|-----------------|-------------|-----------------------|-----------------|------------------|--------------------|------------------------|-------------|
|           |            | Bandwidth [MHz] | Frequency [MHz] | RB / Offset | Bandwidth [MHz] | Frequency [MHz] | RB / Offset |                       |                 |                  |                    |                        |             |
| 40 MHz    | QPSK       | 20              | 3560.0          | 1 / 99      | 20              | 3579.8          | 1 / 0       | 21.14                 | 1.00            | 22.14            | 0.164              | 23.00                  | -0.86       |
|           |            | 20              | 3625.0          | 1 / 99      | 20              | 3644.8          | 1 / 0       | 21.17                 | 1.00            | 22.17            | 0.165              | 23.00                  | -0.83       |
|           |            | 20              | 3690.0          | 1 / 0       | 20              | 3670.2          | 1 / 99      | 21.19                 | 1.00            | 22.19            | 0.166              | 23.00                  | -0.81       |
|           | 16-QAM     | 20              | 3625.0          | 1 / 99      | 20              | 3644.8          | 1 / 0       | 20.18                 | 1.00            | 21.18            | 0.131              | 23.00                  | -1.82       |
| 35 MHz    | QPSK       | 20              | 3557.5          | 1 / 99      | 15              | 3577.1          | 1 / 0       | 21.11                 | 1.00            | 22.11            | 0.163              | 23.00                  | -0.89       |
|           |            | 20              | 3625.0          | 1 / 99      | 15              | 3642.1          | 1 / 0       | 21.12                 | 1.00            | 22.12            | 0.163              | 23.00                  | -0.88       |
|           |            | 20              | 3692.5          | 1 / 0       | 15              | 3672.9          | 1 / 74      | 21.10                 | 1.00            | 22.10            | 0.162              | 23.00                  | -0.90       |
|           | 16-QAM     | 20              | 3557.5          | 1 / 99      | 15              | 3577.1          | 1 / 0       | 20.16                 | 1.00            | 21.16            | 0.131              | 23.00                  | -1.84       |
| 30 MHz    | QPSK       | 20              | 3555.0          | 1 / 99      | 10              | 3574.4          | 1 / 0       | 21.17                 | 1.00            | 22.17            | 0.165              | 23.00                  | -0.83       |
|           |            | 20              | 3625.0          | 1 / 99      | 10              | 3639.4          | 1 / 0       | 21.11                 | 1.00            | 22.11            | 0.163              | 23.00                  | -0.89       |
|           |            | 20              | 3695.0          | 1 / 0       | 10              | 3678.3          | 1 / 49      | 21.15                 | 1.00            | 22.15            | 0.164              | 23.00                  | -0.85       |
|           | 16-QAM     | 20              | 3695.0          | 1 / 0       | 10              | 3678.3          | 1 / 49      | 21.14                 | 1.00            | 22.14            | 0.164              | 23.00                  | -0.86       |
| 25 MHz    | QPSK       | 20              | 3552.5          | 1 / 99      | 5               | 3571.7          | 1 / 0       | 21.20                 | 1.00            | 22.20            | 0.166              | 23.00                  | -0.80       |
|           |            | 20              | 3625.0          | 1 / 99      | 5               | 3636.7          | 1 / 0       | 21.18                 | 1.00            | 22.18            | 0.165              | 23.00                  | -0.82       |
|           |            | 20              | 3697.5          | 1 / 0       | 5               | 3678.3          | 1 / 24      | 21.14                 | 1.00            | 22.14            | 0.164              | 23.00                  | -0.86       |
|           | 16-QAM     | 20              | 3697.5          | 1 / 0       | 5               | 3678.3          | 1 / 24      | 20.16                 | 1.00            | 21.16            | 0.131              | 23.00                  | -1.84       |

Table 7-2. Conducted Power Output Data and EIRP data (ULCA LB48 – Ant6)

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] | Ant Gain [dBi] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|------------|---------|-----------------|----------------|-----------------------|----------------|------------|--------------|------------------|-------------|
| 20 MHz    | QPSK       | 55340   | 3560.0          | 1 / 25         | 20.47                 | 1.00           | 21.47      | 0.140        | 23.00            | -1.53       |
|           |            | 55990   | 3625.0          | 1 / 49         | 20.38                 | 1.00           | 21.38      | 0.137        | 23.00            | -1.62       |
|           |            | 56640   | 3690.0          | 1 / 49         | 20.41                 | 1.00           | 21.41      | 0.138        | 23.00            | -1.59       |
|           | 16-QAM     | 55340   | 3560.0          | 1 / 25         | 19.53                 | 1.00           | 20.53      | 0.113        | 23.00            | -2.47       |
| 15 MHz    | QPSK       | 55315   | 3557.5          | 1 / 19         | 20.52                 | 1.00           | 21.52      | 0.142        | 23.00            | -1.48       |
|           |            | 55990   | 3625.0          | 1 / 36         | 20.34                 | 1.00           | 21.34      | 0.136        | 23.00            | -1.66       |
|           |            | 56665   | 3692.5          | 1 / 36         | 20.39                 | 1.00           | 21.39      | 0.138        | 23.00            | -1.61       |
|           | 16-QAM     | 55315   | 3557.5          | 1 / 19         | 19.67                 | 1.00           | 20.67      | 0.117        | 23.00            | -2.33       |
| 10 MHz    | QPSK       | 55290   | 3555.0          | 1 / 12         | 20.70                 | 1.00           | 21.70      | 0.148        | 23.00            | -1.30       |
|           |            | 55990   | 3625.0          | 1 / 22         | 20.53                 | 1.00           | 21.53      | 0.142        | 23.00            | -1.47       |
|           |            | 56690   | 3695.0          | 1 / 22         | 20.58                 | 1.00           | 21.58      | 0.144        | 23.00            | -1.42       |
|           | 16-QAM     | 55290   | 3555.0          | 1 / 12         | 19.80                 | 1.00           | 20.80      | 0.120        | 23.00            | -2.20       |
| 5 MHz     | QPSK       | 55265   | 3552.5          | 1 / 5          | 20.74                 | 1.00           | 21.74      | 0.149        | 23.00            | -1.26       |
|           |            | 55990   | 3625.0          | 1 / 5          | 20.52                 | 1.00           | 21.52      | 0.142        | 23.00            | -1.48       |
|           |            | 56715   | 3697.5          | 1 / 5          | 20.64                 | 1.00           | 21.64      | 0.146        | 23.00            | -1.36       |
|           | 16-QAM     | 55265   | 3552.5          | 1 / 5          | 19.86                 | 1.00           | 20.86      | 0.122        | 23.00            | -2.14       |

Table 7-3. Conducted Power Output and EIRP Data (LTE Band 48 – Ant6)

|                                            |                                      |                           |  |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|--|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           |  | Approved by:<br>Technical Manager |
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| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] | Ant Gain [dBi] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|------------|---------|-----------------|----------------|-----------------------|----------------|------------|--------------|------------------|-------------|
| 40 MHz    | π/2 BPSK   | 638000  | 3570.0          | 1 / 1          | 21.93                 | 1.00           | 22.93      | 0.196        | 23.00            | -0.07       |
|           |            | 641666  | 3625.0          | 1 / 104        | 21.83                 | 1.00           | 22.83      | 0.192        | 23.00            | -0.17       |
|           |            | 645332  | 3680.0          | 1 / 104        | 21.98                 | 1.00           | 22.98      | 0.198        | 23.00            | -0.02       |
|           | QPSK       | 638000  | 3570.0          | 1 / 1          | 21.88                 | 1.00           | 22.88      | 0.194        | 23.00            | -0.12       |
|           |            | 641666  | 3625.0          | 1 / 104        | 21.97                 | 1.00           | 22.97      | 0.198        | 23.00            | -0.03       |
|           |            | 645332  | 3680.0          | 1 / 104        | 21.93                 | 1.00           | 22.93      | 0.196        | 23.00            | -0.07       |
| 30 MHz    | π/2 BPSK   | 645332  | 3680.0          | 1 / 104        | 21.18                 | 1.00           | 22.18      | 0.165        | 23.00            | -0.82       |
|           |            | 637666  | 3565.0          | 1 / 1          | 21.91                 | 1.00           | 22.91      | 0.195        | 23.00            | -0.09       |
|           |            | 641666  | 3625.0          | 1 / 1          | 21.93                 | 1.00           | 22.93      | 0.196        | 23.00            | -0.07       |
|           | QPSK       | 645666  | 3685.0          | 1 / 76         | 21.92                 | 1.00           | 22.92      | 0.196        | 23.00            | -0.08       |
|           |            | 637666  | 3565.0          | 1 / 1          | 21.96                 | 1.00           | 22.96      | 0.198        | 23.00            | -0.04       |
|           |            | 641666  | 3625.0          | 1 / 76         | 21.91                 | 1.00           | 22.91      | 0.195        | 23.00            | -0.09       |
| 20 MHz    | π/2 BPSK   | 645666  | 3685.0          | 1 / 39         | 21.95                 | 1.00           | 22.95      | 0.197        | 23.00            | -0.05       |
|           |            | 645666  | 3685.0          | 1 / 39         | 21.17                 | 1.00           | 22.17      | 0.165        | 23.00            | -0.83       |
|           |            | 637334  | 3560.0          | 50 / 0         | 21.99                 | 1.00           | 22.99      | 0.199        | 23.00            | -0.01       |
|           | QPSK       | 641666  | 3625.0          | 1 / 49         | 21.88                 | 1.00           | 22.88      | 0.194        | 23.00            | -0.12       |
|           |            | 646000  | 3690.0          | 1 / 1          | 21.96                 | 1.00           | 22.96      | 0.198        | 23.00            | -0.04       |
|           |            | 637334  | 3560.0          | 1 / 25         | 21.97                 | 1.00           | 22.97      | 0.198        | 23.00            | -0.03       |
| 15 MHz    | π/2 BPSK   | 641666  | 3625.0          | 1 / 1          | 21.87                 | 1.00           | 22.87      | 0.194        | 23.00            | -0.13       |
|           |            | 646000  | 3690.0          | 1 / 49         | 21.96                 | 1.00           | 22.96      | 0.198        | 23.00            | -0.04       |
|           |            | 641666  | 3625.0          | 1 / 49         | 21.18                 | 1.00           | 22.18      | 0.165        | 23.00            | -0.82       |
|           | QPSK       | 637166  | 3557.5          | 36 / 0         | 21.98                 | 1.00           | 22.98      | 0.199        | 23.00            | -0.02       |
|           |            | 641666  | 3625.0          | 1 / 36         | 21.99                 | 1.00           | 22.99      | 0.199        | 23.00            | -0.01       |
|           |            | 646166  | 3692.5          | 1 / 1          | 21.99                 | 1.00           | 22.99      | 0.199        | 23.00            | -0.01       |
| 10 MHz    | π/2 BPSK   | 637166  | 3557.5          | 36 / 0         | 21.98                 | 1.00           | 22.98      | 0.199        | 23.00            | -0.02       |
|           |            | 641666  | 3625.0          | 1 / 19         | 21.98                 | 1.00           | 22.98      | 0.199        | 23.00            | -0.02       |
|           |            | 646166  | 3692.5          | 1 / 36         | 21.92                 | 1.00           | 22.92      | 0.196        | 23.00            | -0.08       |
|           | QPSK       | 641666  | 3625.0          | 1 / 36         | 21.24                 | 1.00           | 22.24      | 0.168        | 23.00            | -0.76       |
|           |            | 637000  | 3555.0          | 24 / 0         | 21.90                 | 1.00           | 22.90      | 0.195        | 23.00            | -0.10       |
|           |            | 641666  | 3625.0          | 1 / 12         | 21.75                 | 1.00           | 22.75      | 0.189        | 23.00            | -0.25       |
| 10 MHz    | π/2 BPSK   | 646332  | 3695.0          | 1 / 22         | 21.81                 | 1.00           | 22.81      | 0.191        | 23.00            | -0.19       |
|           |            | 637000  | 3555.0          | 1 / 22         | 21.93                 | 1.00           | 22.93      | 0.196        | 23.00            | -0.07       |
|           |            | 641666  | 3625.0          | 1 / 1          | 21.79                 | 1.00           | 22.79      | 0.190        | 23.00            | -0.21       |
|           | QPSK       | 646332  | 3695.0          | 1 / 1          | 21.82                 | 1.00           | 22.82      | 0.192        | 23.00            | -0.18       |
|           |            | 637000  | 3555.0          | 1 / 22         | 21.17                 | 1.00           | 22.17      | 0.165        | 23.00            | -0.83       |
|           |            | 641666  | 3625.0          | 1 / 1          | 21.82                 | 1.00           | 22.82      | 0.192        | 23.00            | -0.18       |

Table 7-4. Conducted Power Output and EIRP Data (NR Band n48 – Ant6)

|                                           |                                      |                           |  |                                   |
|-------------------------------------------|--------------------------------------|---------------------------|--|-----------------------------------|
| FCC ID: C3K2114                           | PART 96 MEASUREMENT REPORT           |                           |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M241190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular |  | Page 15 of 146                    |

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] | Ant Gain [dBi] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|------------|---------|-----------------|----------------|-----------------------|----------------|------------|--------------|------------------|-------------|
| 20 MHz    | QPSK       | 55340   | 3560.0          | 1 / 49         | 21.62                 | 1.00           | 22.62      | 0.183        | 23.00            | -0.38       |
|           |            | 55990   | 3625.0          | 1 / 49         | 21.42                 | 1.00           | 22.42      | 0.174        | 23.00            | -0.58       |
|           |            | 56640   | 3690.0          | 1 / 25         | 21.90                 | 1.00           | 22.90      | 0.195        | 23.00            | -0.10       |
|           | 16-QAM     | 56640   | 3690.0          | 1 / 25         | 21.08                 | 1.00           | 22.08      | 0.162        | 23.00            | -0.92       |
| 15 MHz    | QPSK       | 55315   | 3557.5          | 1 / 36         | 21.60                 | 1.00           | 22.60      | 0.182        | 23.00            | -0.40       |
|           |            | 55990   | 3625.0          | 1 / 19         | 21.20                 | 1.00           | 22.20      | 0.166        | 23.00            | -0.80       |
|           |            | 56665   | 3692.5          | 1 / 36         | 21.91                 | 1.00           | 22.91      | 0.196        | 23.00            | -0.09       |
|           | 16-QAM     | 56665   | 3692.5          | 1 / 36         | 21.04                 | 1.00           | 22.04      | 0.160        | 23.00            | -0.96       |
| 10 MHz    | QPSK       | 55290   | 3555.0          | 1 / 22         | 21.95                 | 1.00           | 22.95      | 0.197        | 23.00            | -0.05       |
|           |            | 55990   | 3625.0          | 1 / 12         | 21.54                 | 1.00           | 22.54      | 0.179        | 23.00            | -0.46       |
|           |            | 56690   | 3695.0          | 1 / 12         | 21.98                 | 1.00           | 22.98      | 0.199        | 23.00            | -0.02       |
|           | 16-QAM     | 56690   | 3695.0          | 1 / 12         | 21.26                 | 1.00           | 22.26      | 0.168        | 23.00            | -0.74       |
| 5 MHz     | QPSK       | 55265   | 3552.5          | 1 / 9          | 21.97                 | 1.00           | 22.97      | 0.198        | 23.00            | -0.03       |
|           |            | 55990   | 3625.0          | 1 / 9          | 21.66                 | 1.00           | 22.66      | 0.185        | 23.00            | -0.34       |
|           |            | 56715   | 3697.5          | 1 / 1          | 21.93                 | 1.00           | 22.93      | 0.196        | 23.00            | -0.07       |
|           | 16-QAM     | 55265   | 3552.5          | 1 / 9          | 20.91                 | 1.00           | 21.91      | 0.155        | 23.00            | -1.09       |

Table 7-5. Conducted Power Output and EIRP Data (LTE Band 48 – Ant1)

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] | Ant Gain [dBi] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|------------|---------|-----------------|----------------|-----------------------|----------------|------------|--------------|------------------|-------------|
| 40 MHz    | TT/2 BPSK  | 638000  | 3570.0          | 1 / 104        | 21.68                 | 1.00           | 22.68      | 0.185        | 23.00            | -0.32       |
|           |            | 641666  | 3625.0          | 1 / 104        | 21.80                 | 1.00           | 22.80      | 0.191        | 23.00            | -0.20       |
|           |            | 645332  | 3680.0          | 1 / 104        | 21.90                 | 1.00           | 22.90      | 0.195        | 23.00            | -0.10       |
|           | QPSK       | 638000  | 3570.0          | 1 / 104        | 21.77                 | 1.00           | 22.77      | 0.189        | 23.00            | -0.23       |
|           |            | 641666  | 3625.0          | 1 / 104        | 21.73                 | 1.00           | 22.73      | 0.187        | 23.00            | -0.27       |
|           |            | 645332  | 3680.0          | 1 / 104        | 21.96                 | 1.00           | 22.96      | 0.198        | 23.00            | -0.04       |
| 30 MHz    | TT/2 BPSK  | 645332  | 3680.0          | 1 / 104        | 21.10                 | 1.00           | 22.10      | 0.162        | 23.00            | -0.90       |
|           |            | 637666  | 3565.0          | 1 / 39         | 21.71                 | 1.00           | 22.71      | 0.186        | 23.00            | -0.29       |
|           |            | 641666  | 3625.0          | 1 / 1          | 21.67                 | 1.00           | 22.67      | 0.185        | 23.00            | -0.33       |
|           | QPSK       | 645666  | 3685.0          | 1 / 76         | 21.93                 | 1.00           | 22.93      | 0.196        | 23.00            | -0.07       |
|           |            | 637666  | 3565.0          | 1 / 76         | 21.63                 | 1.00           | 22.63      | 0.183        | 23.00            | -0.37       |
|           |            | 641666  | 3625.0          | 1 / 1          | 21.62                 | 1.00           | 22.62      | 0.183        | 23.00            | -0.38       |
| 20 MHz    | TT/2 BPSK  | 645666  | 3685.0          | 1 / 39         | 21.91                 | 1.00           | 22.91      | 0.195        | 23.00            | -0.09       |
|           |            | 645666  | 3685.0          | 1 / 76         | 20.92                 | 1.00           | 21.92      | 0.156        | 23.00            | -1.08       |
|           |            | 637334  | 3560.0          | 1 / 1          | 21.95                 | 1.00           | 22.95      | 0.197        | 23.00            | -0.05       |
|           | QPSK       | 641666  | 3625.0          | 1 / 1          | 21.74                 | 1.00           | 22.74      | 0.188        | 23.00            | -0.26       |
|           |            | 646000  | 3690.0          | 1 / 1          | 21.85                 | 1.00           | 22.85      | 0.193        | 23.00            | -0.15       |
|           |            | 637334  | 3560.0          | 1 / 1          | 21.95                 | 1.00           | 22.95      | 0.197        | 23.00            | -0.05       |
| 15 MHz    | TT/2 BPSK  | 641666  | 3625.0          | 1 / 1          | 21.72                 | 1.00           | 22.72      | 0.187        | 23.00            | -0.28       |
|           |            | 646000  | 3690.0          | 1 / 49         | 21.96                 | 1.00           | 22.96      | 0.198        | 23.00            | -0.04       |
|           |            | 646000  | 3690.0          | 1 / 49         | 21.18                 | 1.00           | 22.18      | 0.165        | 23.00            | -0.82       |
|           | QPSK       | 637166  | 3557.5          | 1 / 19         | 21.91                 | 1.00           | 22.91      | 0.195        | 23.00            | -0.09       |
|           |            | 641666  | 3625.0          | 1 / 19         | 21.68                 | 1.00           | 22.68      | 0.186        | 23.00            | -0.32       |
|           |            | 646166  | 3692.5          | 1 / 36         | 21.86                 | 1.00           | 22.86      | 0.193        | 23.00            | -0.14       |
| 10 MHz    | TT/2 BPSK  | 637166  | 3557.5          | 1 / 36         | 21.86                 | 1.00           | 22.86      | 0.193        | 23.00            | -0.14       |
|           |            | 641666  | 3625.0          | 1 / 36         | 21.67                 | 1.00           | 22.67      | 0.185        | 23.00            | -0.33       |
|           |            | 646166  | 3692.5          | 1 / 36         | 21.86                 | 1.00           | 22.86      | 0.193        | 23.00            | -0.14       |
|           | QPSK       | 646166  | 3692.5          | 1 / 36         | 21.12                 | 1.00           | 22.12      | 0.163        | 23.00            | -0.88       |
|           |            | 637000  | 3555.0          | 1 / 22         | 21.98                 | 1.00           | 22.98      | 0.199        | 23.00            | -0.02       |
|           |            | 641666  | 3625.0          | 1 / 22         | 21.60                 | 1.00           | 22.60      | 0.182        | 23.00            | -0.40       |
| 5 MHz     | TT/2 BPSK  | 646332  | 3695.0          | 1 / 1          | 21.84                 | 1.00           | 22.84      | 0.192        | 23.00            | -0.16       |
|           |            | 637000  | 3555.0          | 1 / 1          | 21.80                 | 1.00           | 22.80      | 0.191        | 23.00            | -0.20       |
|           |            | 641666  | 3625.0          | 1 / 22         | 21.46                 | 1.00           | 22.46      | 0.176        | 23.00            | -0.54       |
|           | 16-QAM     | 646332  | 3695.0          | 1 / 22         | 21.99                 | 1.00           | 22.99      | 0.199        | 23.00            | -0.01       |

Table 7-6. Conducted Power Output and EIRP Data (NR Band n48 – Ant1)

|                                            |                                      |                           |  |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|--|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular |  | Page 16 of 146                    |

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] | Ant Gain [dBi] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|------------|---------|-----------------|----------------|-----------------------|----------------|------------|--------------|------------------|-------------|
| 40 MHz    | π/2 BPSK   | 638000  | 3570.0          | 1 / 104        | 21.37                 | 1.00           | 22.37      | 0.173        | 23.00            | -0.63       |
|           |            | 641666  | 3625.0          | 1 / 104        | 21.36                 | 1.00           | 22.36      | 0.172        | 23.00            | -0.64       |
|           |            | 645332  | 3680.0          | 1 / 104        | 21.61                 | 1.00           | 22.61      | 0.182        | 23.00            | -0.39       |
|           | QPSK       | 638000  | 3570.0          | 1 / 104        | 21.38                 | 1.00           | 22.38      | 0.173        | 23.00            | -0.62       |
|           |            | 641666  | 3625.0          | 1 / 104        | 21.42                 | 1.00           | 22.42      | 0.174        | 23.00            | -0.58       |
|           |            | 645332  | 3680.0          | 1 / 104        | 21.47                 | 1.00           | 22.47      | 0.176        | 23.00            | -0.53       |
|           | 16-QAM     | 645332  | 3680.0          | 1 / 104        | 20.77                 | 1.00           | 21.77      | 0.150        | 23.00            | -1.23       |

Table 7-7. Conducted Power Output and EIRP Data (NR Band n48 – SRS Ant3)

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] | Ant Gain [dBi] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|------------|---------|-----------------|----------------|-----------------------|----------------|------------|--------------|------------------|-------------|
| 40 MHz    | π/2 BPSK   | 638000  | 3570.0          | 1 / 1          | 21.95                 | 1.00           | 22.95      | 0.197        | 23.00            | -0.05       |
|           |            | 641666  | 3625.0          | 1 / 53         | 21.89                 | 1.00           | 22.89      | 0.194        | 23.00            | -0.11       |
|           |            | 645332  | 3680.0          | 1 / 1          | 21.97                 | 1.00           | 22.97      | 0.198        | 23.00            | -0.03       |
|           | QPSK       | 638000  | 3570.0          | 1 / 1          | 21.97                 | 1.00           | 22.97      | 0.198        | 23.00            | -0.03       |
|           |            | 641666  | 3625.0          | 1 / 1          | 21.89                 | 1.00           | 22.89      | 0.195        | 23.00            | -0.11       |
|           |            | 645332  | 3680.0          | 1 / 104        | 21.98                 | 1.00           | 22.98      | 0.199        | 23.00            | -0.02       |
|           | 16-QAM     | 638000  | 3570.0          | 1 / 104        | 21.58                 | 1.00           | 22.58      | 0.181        | 23.00            | -0.42       |

Table 7-8. Conducted Power Output and EIRP Data (NR Band n48 – SRS Ant4)

|                                            |                                      |                           |  |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|--|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular |  | Page 17 of 146                    |

| Bandwidth | Modulation | Channel | Frequency [MHz] | RB Size/Offset | Ant6 Conducted Power [dBm] | Ant1 Conducted Power [dBm] | Ant Gain [dBi] | Ant6 + Ant1 EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|------------|---------|-----------------|----------------|----------------------------|----------------------------|----------------|------------------------|--------------|------------------|-------------|
| 40 MHz    | π/2 BPSK   | 638000  | 3570.0          | 1 / 1          | 17.63                      | 17.80                      | 1.00           | 21.73                  | 0.149        | 23.00            | -1.27       |
|           |            | 641666  | 3625.0          | 1 / 1          | 17.83                      | 17.69                      | 1.00           | 21.77                  | 0.150        | 23.00            | -1.23       |
|           |            | 645332  | 3680.0          | 1 / 104        | 17.95                      | 17.77                      | 1.00           | 21.87                  | 0.154        | 23.00            | -1.13       |
|           | QPSK       | 638000  | 3570.0          | 1 / 1          | 17.64                      | 17.66                      | 1.00           | 21.66                  | 0.147        | 23.00            | -1.34       |
|           |            | 641666  | 3625.0          | 1 / 1          | 17.65                      | 17.62                      | 1.00           | 21.64                  | 0.146        | 23.00            | -1.36       |
|           |            | 645332  | 3680.0          | 1 / 104        | 17.62                      | 17.55                      | 1.00           | 21.59                  | 0.144        | 23.00            | -1.41       |
|           | 16-QAM     | 645332  | 3680.0          | 1 / 104        | 16.62                      | 16.74                      | 1.00           | 20.69                  | 0.117        | 23.00            | -2.31       |
| 30 MHz    | π/2 BPSK   | 637666  | 3565.0          | 1 / 1          | 17.95                      | 17.87                      | 1.00           | 21.93                  | 0.156        | 23.00            | -1.07       |
|           |            | 641666  | 3625.0          | 1 / 76         | 17.87                      | 17.61                      | 1.00           | 21.75                  | 0.150        | 23.00            | -1.25       |
|           |            | 645666  | 3685.0          | 1 / 76         | 17.85                      | 17.66                      | 1.00           | 21.76                  | 0.150        | 23.00            | -1.24       |
|           | QPSK       | 637666  | 3565.0          | 1 / 1          | 17.73                      | 17.57                      | 1.00           | 21.66                  | 0.147        | 23.00            | -1.34       |
|           |            | 641666  | 3625.0          | 1 / 76         | 17.46                      | 17.66                      | 1.00           | 21.57                  | 0.144        | 23.00            | -1.43       |
|           |            | 645666  | 3685.0          | 1 / 76         | 17.77                      | 17.62                      | 1.00           | 21.71                  | 0.148        | 23.00            | -1.29       |
|           | 16-QAM     | 645666  | 3685.0          | 1 / 76         | 16.66                      | 16.71                      | 1.00           | 20.70                  | 0.117        | 23.00            | -2.30       |
| 20 MHz    | π/2 BPSK   | 637334  | 3560.0          | 1 / 1          | 17.89                      | 17.95                      | 1.00           | 21.93                  | 0.156        | 23.00            | -1.07       |
|           |            | 641666  | 3625.0          | 1 / 49         | 17.71                      | 17.59                      | 1.00           | 21.66                  | 0.147        | 23.00            | -1.34       |
|           |            | 646000  | 3690.0          | 1 / 25         | 17.51                      | 17.59                      | 1.00           | 21.56                  | 0.143        | 23.00            | -1.44       |
|           | QPSK       | 637334  | 3560.0          | 1 / 1          | 18.19                      | 18.07                      | 1.00           | 22.14                  | 0.164        | 23.00            | -0.86       |
|           |            | 641666  | 3625.0          | 1 / 49         | 17.72                      | 17.51                      | 1.00           | 21.63                  | 0.146        | 23.00            | -1.37       |
|           |            | 646000  | 3690.0          | 1 / 25         | 17.56                      | 17.60                      | 1.00           | 21.59                  | 0.144        | 23.00            | -1.41       |
|           | 16-QAM     | 641666  | 3625.0          | 1 / 49         | 17.14                      | 16.60                      | 1.00           | 20.89                  | 0.123        | 23.00            | -2.11       |
| 15 MHz    | π/2 BPSK   | 637166  | 3557.5          | 1 / 19         | 17.94                      | 17.87                      | 1.00           | 21.92                  | 0.156        | 23.00            | -1.08       |
|           |            | 641666  | 3625.0          | 1 / 36         | 17.76                      | 17.65                      | 1.00           | 21.72                  | 0.149        | 23.00            | -1.28       |
|           |            | 646166  | 3692.5          | 1 / 1          | 17.74                      | 17.56                      | 1.00           | 21.66                  | 0.147        | 23.00            | -1.34       |
|           | QPSK       | 637166  | 3557.5          | 1 / 19         | 17.93                      | 17.97                      | 1.00           | 21.96                  | 0.157        | 23.00            | -1.04       |
|           |            | 641666  | 3625.0          | 1 / 36         | 17.61                      | 17.64                      | 1.00           | 21.64                  | 0.146        | 23.00            | -1.36       |
|           |            | 646166  | 3692.5          | 1 / 1          | 17.60                      | 17.54                      | 1.00           | 21.58                  | 0.144        | 23.00            | -1.42       |
|           | 16-QAM     | 641666  | 3625.0          | 1 / 36         | 16.41                      | 16.69                      | 1.00           | 20.56                  | 0.114        | 23.00            | -2.44       |
| 10 MHz    | π/2 BPSK   | 637000  | 3555.0          | 1 / 1          | 18.01                      | 17.92                      | 1.00           | 21.98                  | 0.158        | 23.00            | -1.02       |
|           |            | 641666  | 3625.0          | 1 / 12         | 17.62                      | 17.45                      | 1.00           | 21.55                  | 0.143        | 23.00            | -1.45       |
|           |            | 646332  | 3695.0          | 1 / 22         | 17.68                      | 17.68                      | 1.00           | 21.69                  | 0.148        | 23.00            | -1.31       |
|           | QPSK       | 637000  | 3555.0          | 1 / 1          | 17.86                      | 17.70                      | 1.00           | 21.79                  | 0.151        | 23.00            | -1.21       |
|           |            | 641666  | 3625.0          | 1 / 12         | 17.48                      | 17.40                      | 1.00           | 21.45                  | 0.140        | 23.00            | -1.55       |
|           |            | 646332  | 3695.0          | 1 / 22         | 17.45                      | 17.43                      | 1.00           | 21.45                  | 0.140        | 23.00            | -1.55       |
|           | 16-QAM     | 637000  | 3555.0          | 1 / 1          | 16.98                      | 16.89                      | 1.00           | 20.95                  | 0.124        | 23.00            | -2.05       |

Table 7-9. Conducted Power Output and EIRP Data (NR Band n48 – UL-MIMO Antenna 6 + 1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 18 of 146                    |

## 7.3 Occupied Bandwidth

### 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.

### Test Procedure Used

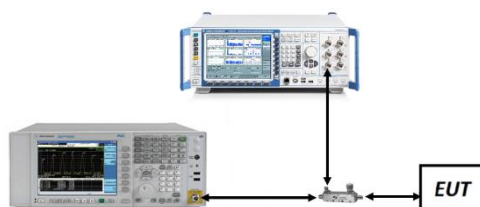
ANSI C63.26-2015 – Section 5.4.4

### 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  $\geq 3 \times$  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 7-2. Test Instrument & Measurement Setup**

### Test Notes

None

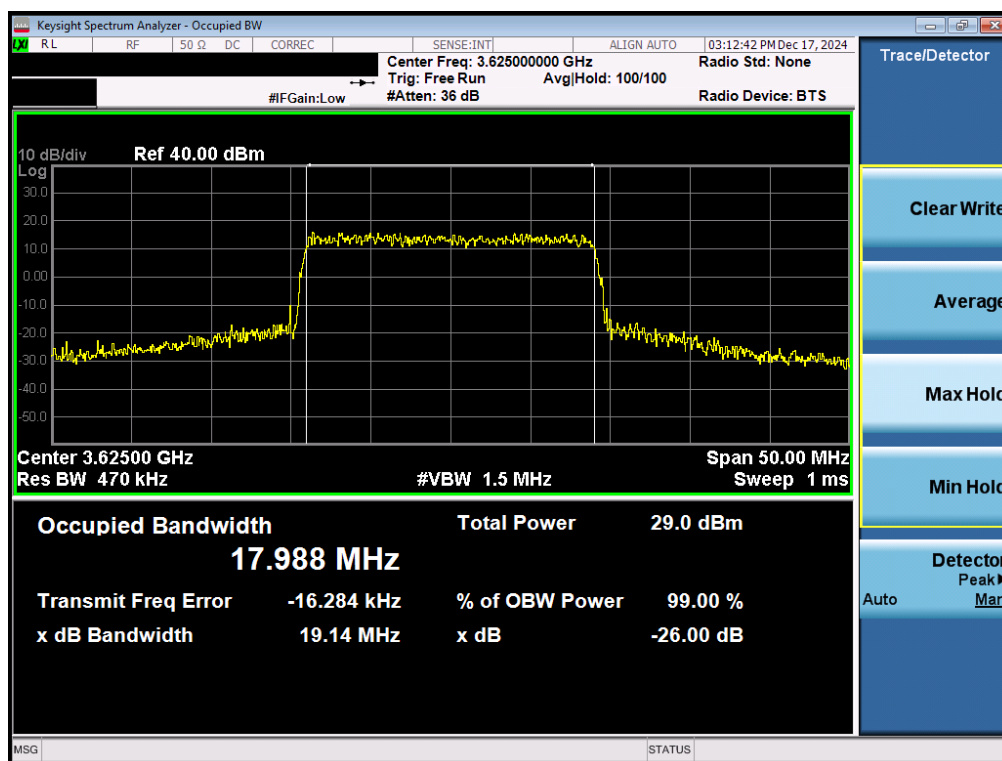
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 19 of 146                    |

| Mode    | Bandwidth | Modulation   | OBW [MHz] |
|---------|-----------|--------------|-----------|
| LTE-B48 | 20 MHz    | QPSK         | 17.99     |
|         |           | 16QAM        | 18.06     |
|         | 15 MHz    | QPSK         | 13.48     |
|         |           | 16QAM        | 13.48     |
|         | 10 MHz    | QPSK         | 8.99      |
|         |           | 16QAM        | 9.01      |
|         | 5 MHz     | QPSK         | 4.51      |
|         |           | 16QAM        | 4.49      |
| LTE-B48 | 20+20MHz  | QPSK         | 37.67     |
|         |           | 16QAM        | 37.64     |
|         | 20+15MHz  | QPSK         | 32.82     |
|         |           | 16QAM        | 32.88     |
|         | 20+10MHz  | QPSK         | 27.84     |
|         |           | 16QAM        | 27.87     |
|         | 20+5MHz   | QPSK         | 22.94     |
|         |           | 16QAM        | 22.89     |
| NR-n48  | 40MHz     | $\pi/2$ BPSK | 35.92     |
|         |           | QPSK         | 38.11     |
|         |           | 16QAM        | 37.96     |
|         | 30MHz     | $\pi/2$ BPSK | 26.87     |
|         |           | QPSK         | 28.00     |
|         |           | 16QAM        | 28.04     |
|         | 20MHz     | $\pi/2$ BPSK | 18.07     |
|         |           | QPSK         | 18.34     |
|         |           | 16QAM        | 18.36     |
|         | 15MHz     | $\pi/2$ BPSK | 13.02     |
|         |           | QPSK         | 13.66     |
|         |           | 16QAM        | 13.75     |
|         | 10 MHz    | $\pi/2$ BPSK | 8.73      |
|         |           | QPSK         | 8.69      |
|         |           | 16QAM        | 8.66      |

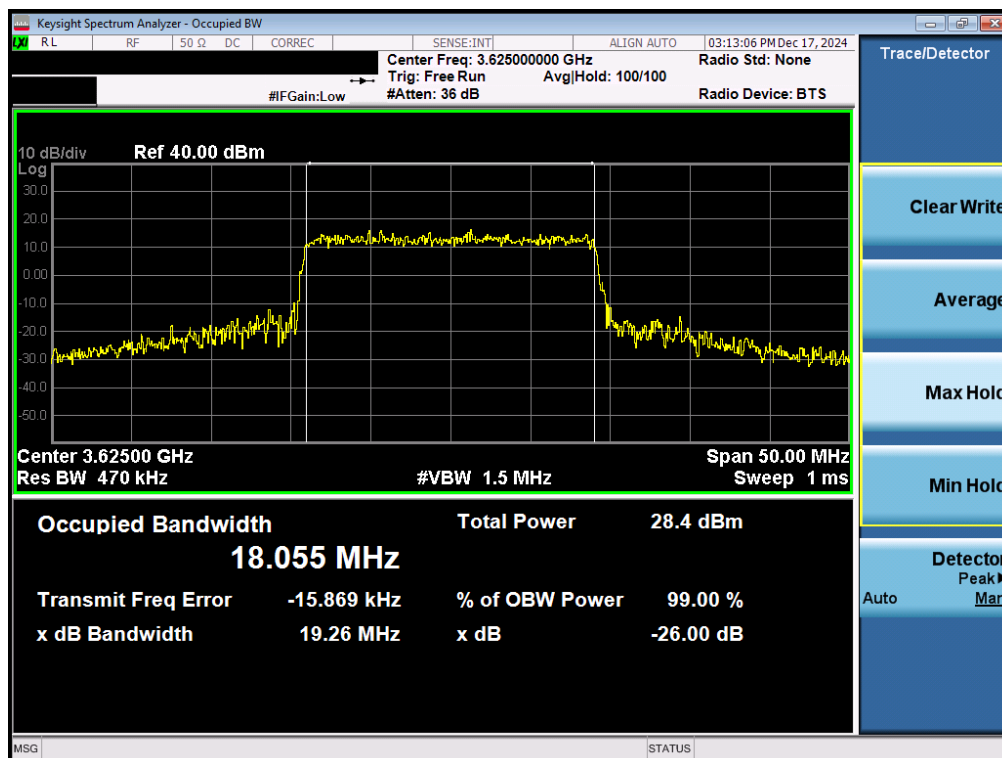
Table 7-10. Occupied Bandwidth Test Results – Ant6

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 20 of 146                    |

## LTE Band 48 – Ant6

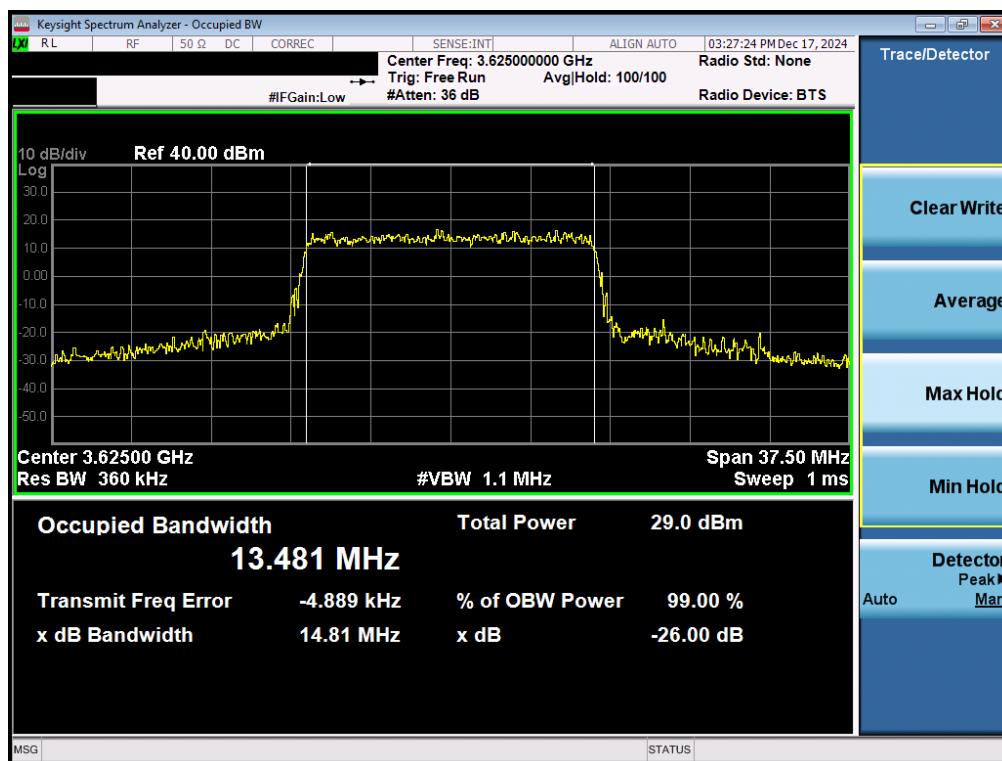


Plot 7-1. Occupied Bandwidth Plot (LTE Band 48 - 20MHz QPSK - Full RB Configuration - Ant6)

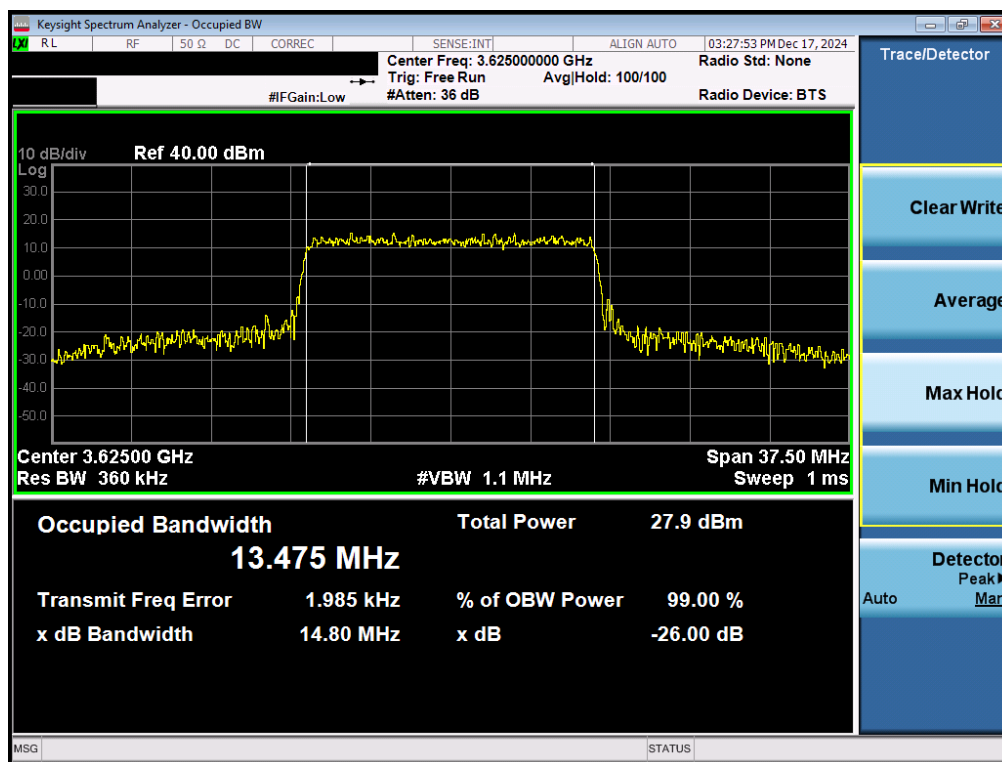


Plot 7-2. Occupied Bandwidth Plot (LTE Band 48 - 20MHz 16-QAM - Full RB Configuration - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 21 of 146                    |

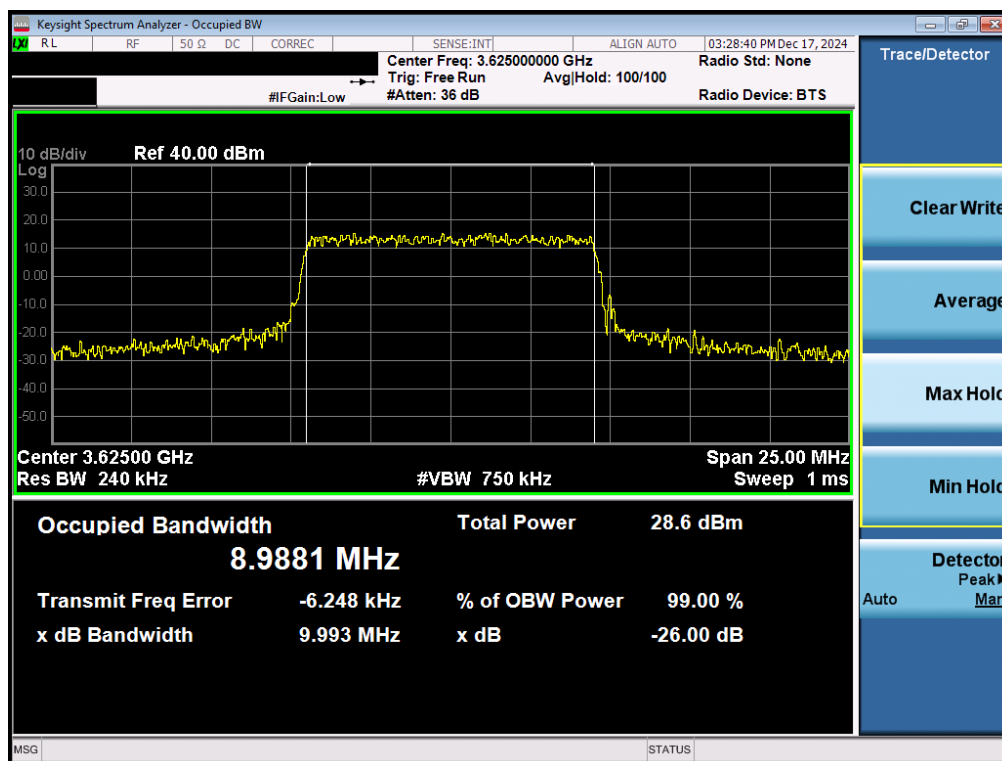


Plot 7-3. Occupied Bandwidth Plot (LTE Band 48 - 15MHz QPSK - Full RB Configuration - Ant6)

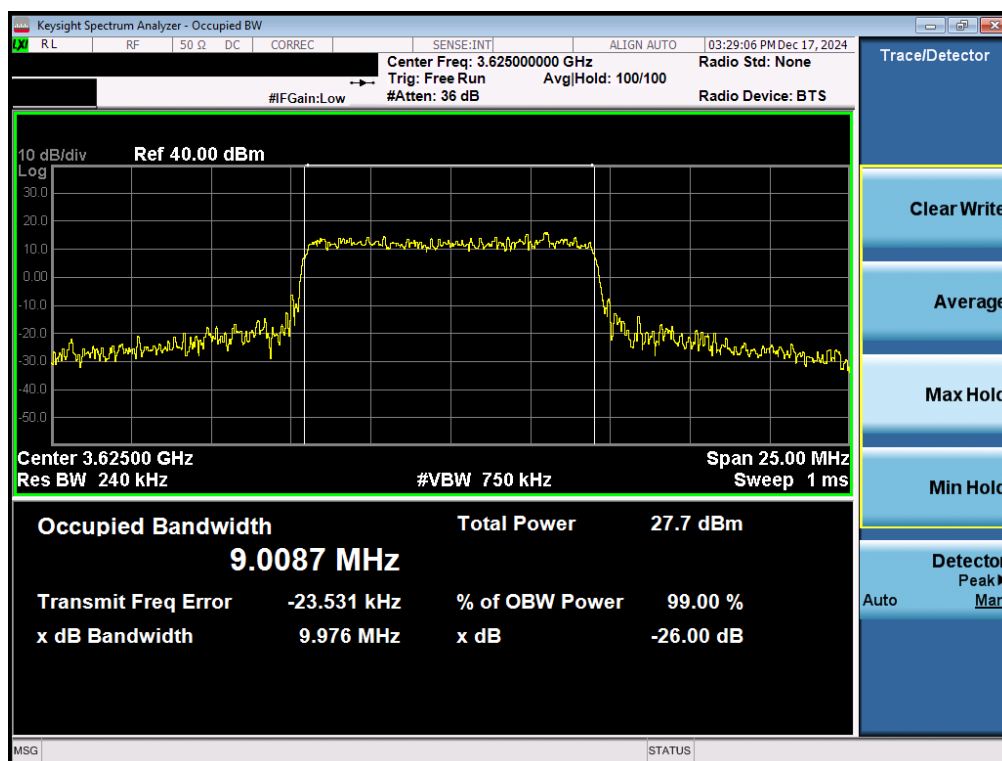


Plot 7-4. Occupied Bandwidth Plot (LTE Band 48 - 15MHz 16-QAM - Full RB Configuration - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 22 of 146                    |

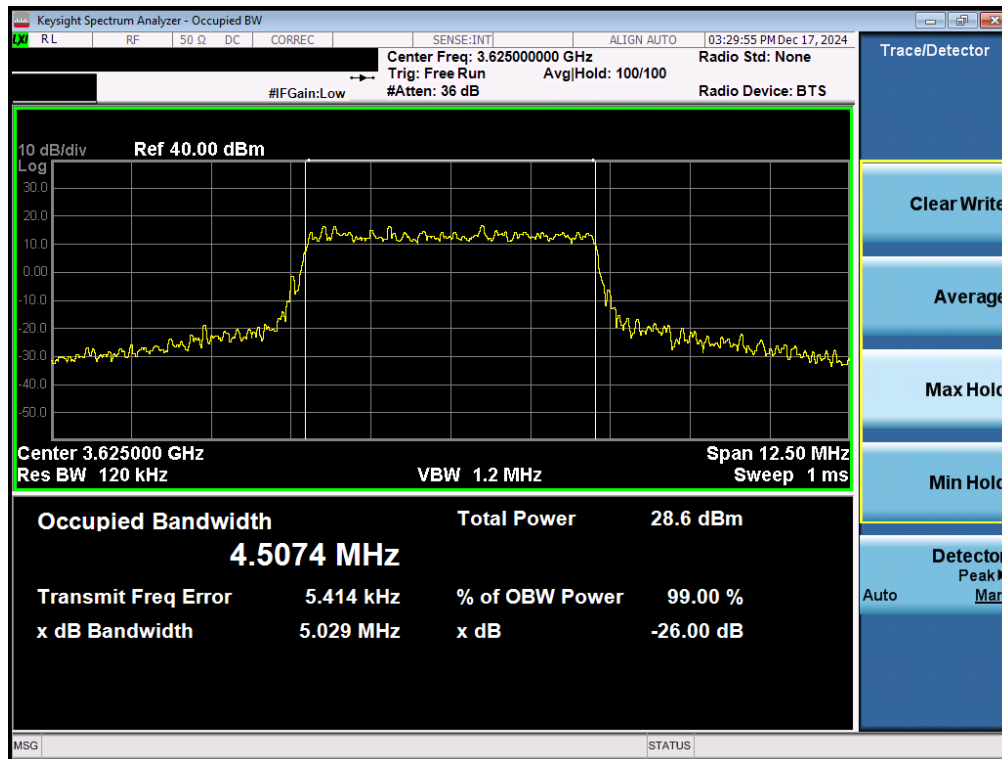


Plot 7-5. Occupied Bandwidth Plot (LTE Band 48 - 10MHz QPSK - Full RB Configuration - Ant6)

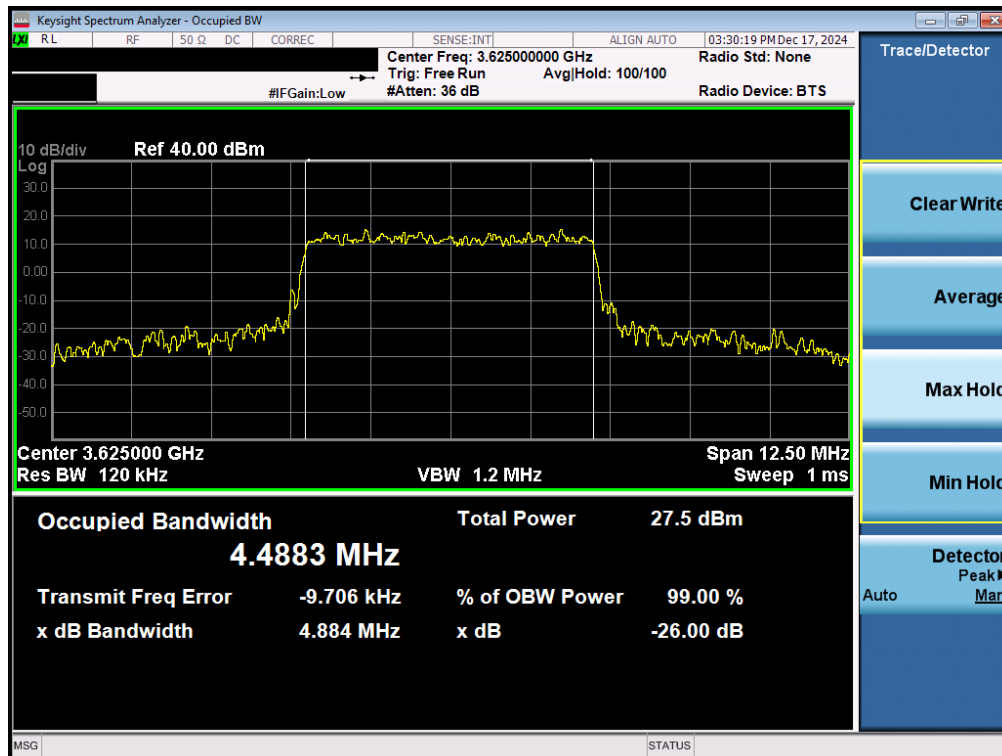


Plot 7-6. Occupied Bandwidth Plot (LTE Band 48 - 10MHz 16-QAM - Full RB Configuration - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 23 of 146                    |



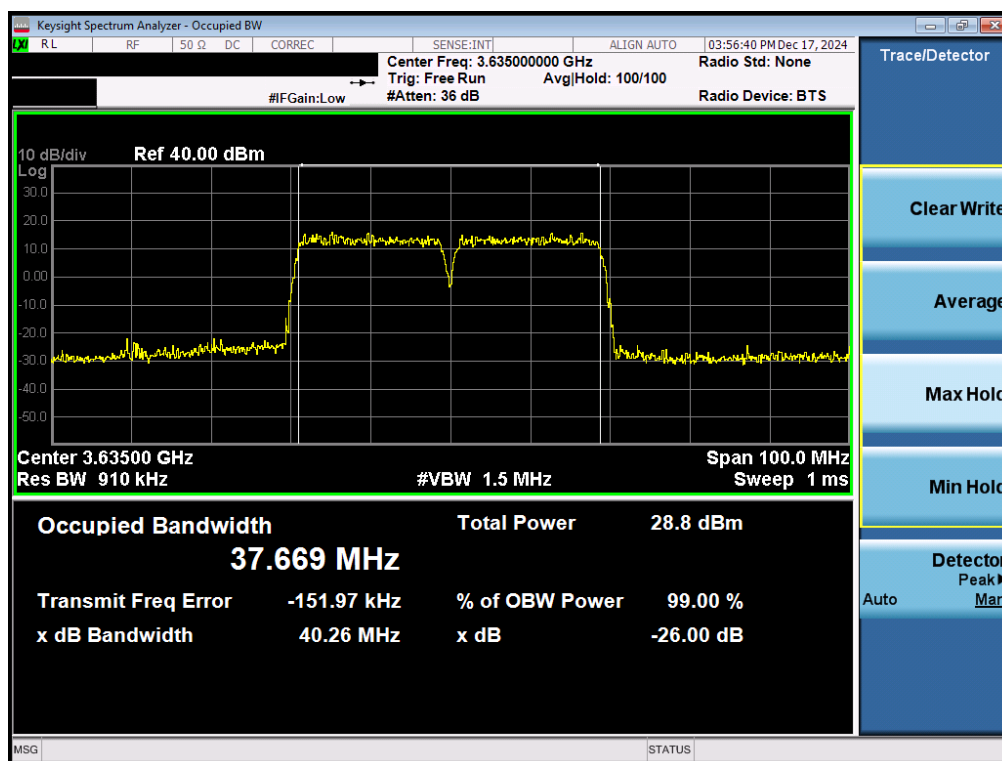
Plot 7-7. Occupied Bandwidth Plot (LTE Band 48 - 5MHz QPSK - Full RB Configuration - Ant6)



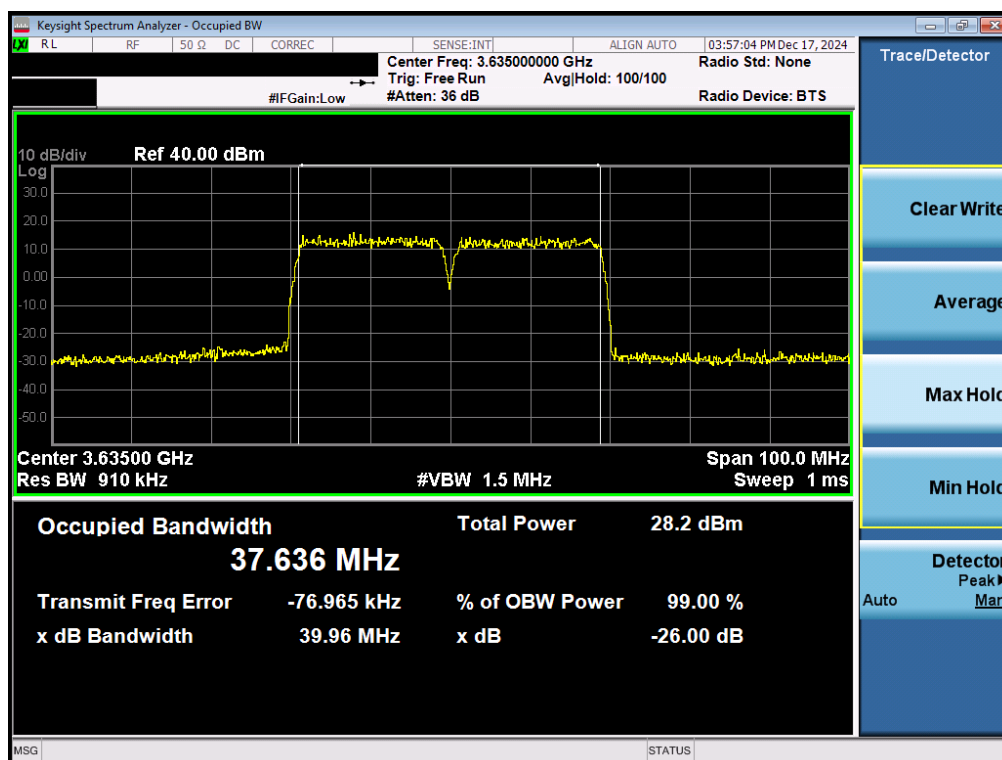
Plot 7-8. Occupied Bandwidth Plot (LTE Band 48 - 5MHz 16-QAM - Full RB Configuration - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 24 of 146                    |

## ULCA LTE Band 48 – Ant6

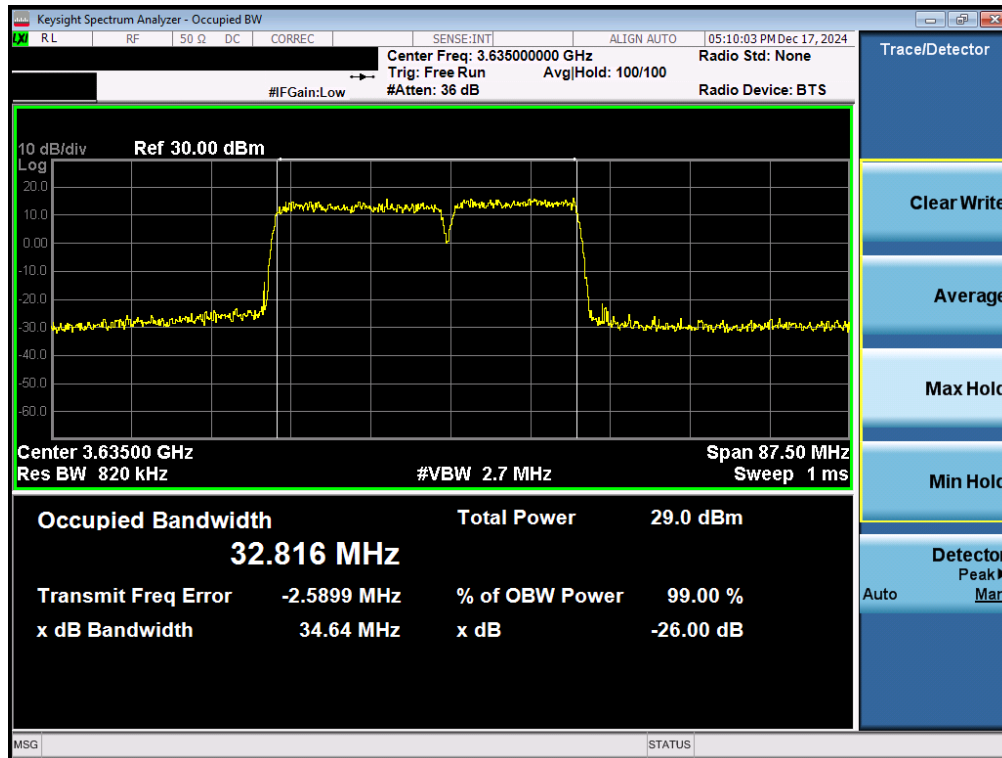


Plot 7-9. Occupied Bandwidth Plot (ULCA LB48 - 20+20MHz QPSK - Full RB Configuration - Ant6)

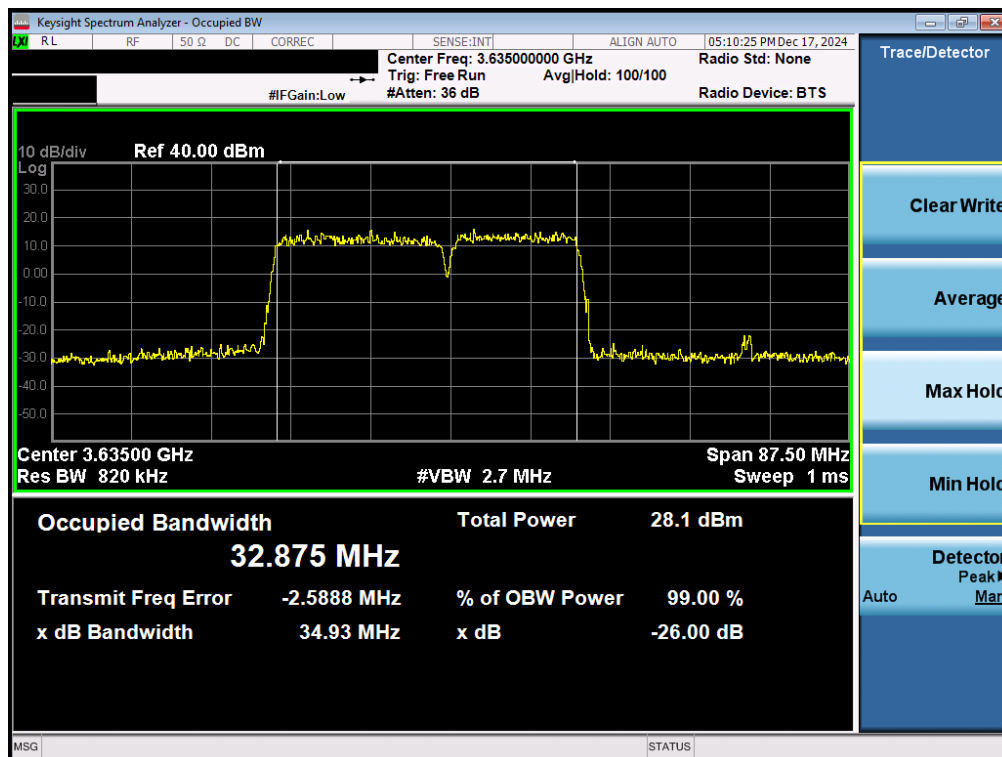


Plot 7-10. Occupied Bandwidth Plot (ULCA LB48 - 20+20MHz 16-QAM - Full RB Configuration - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 25 of 146                    |

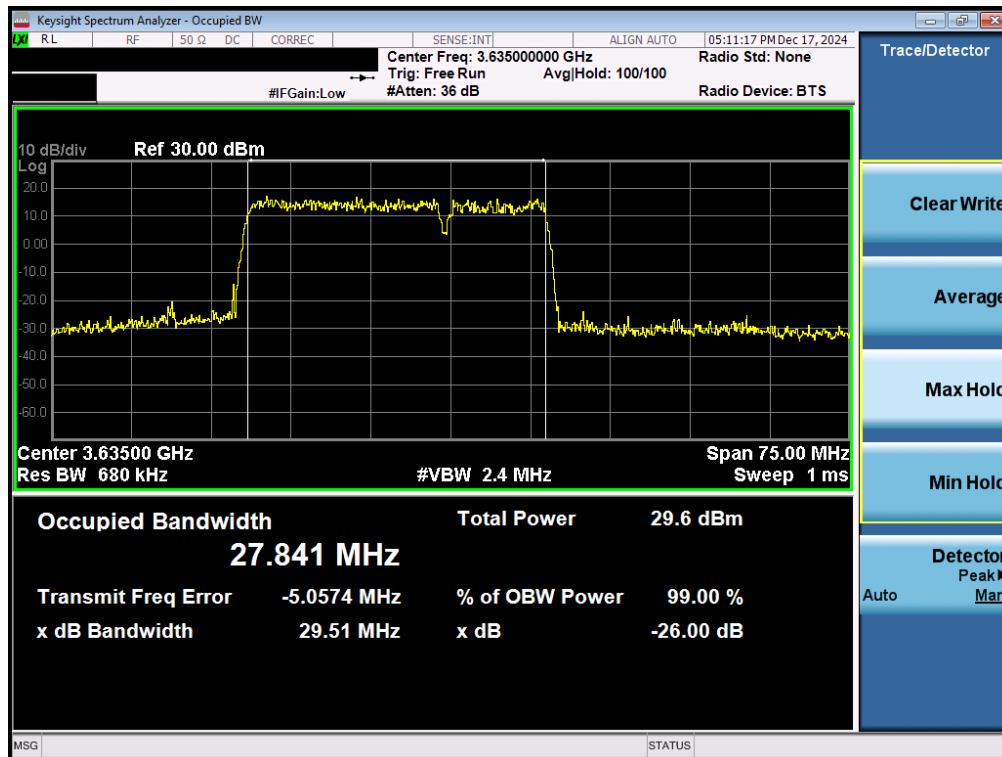


Plot 7-11. Occupied Bandwidth Plot (ULCA LB48 - 20+15MHz QPSK - Full RB Configuration - Ant6)

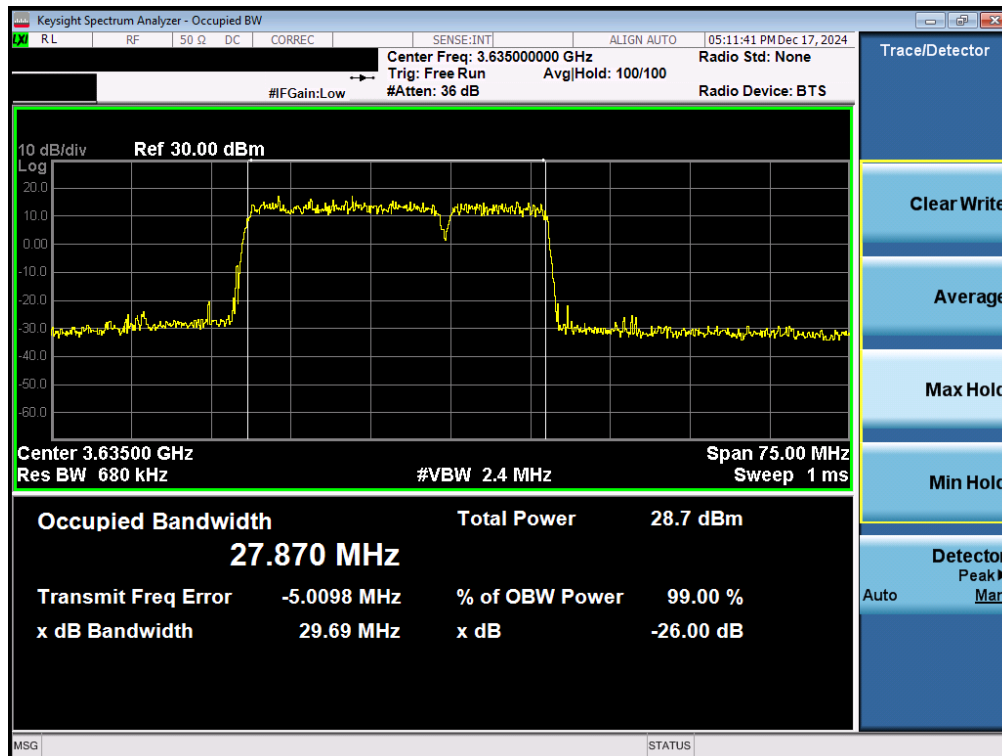


Plot 7-12. Occupied Bandwidth Plot (ULCA LB48 - 20+15MHz 16-QAM - Full RB Configuration - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 26 of 146                    |

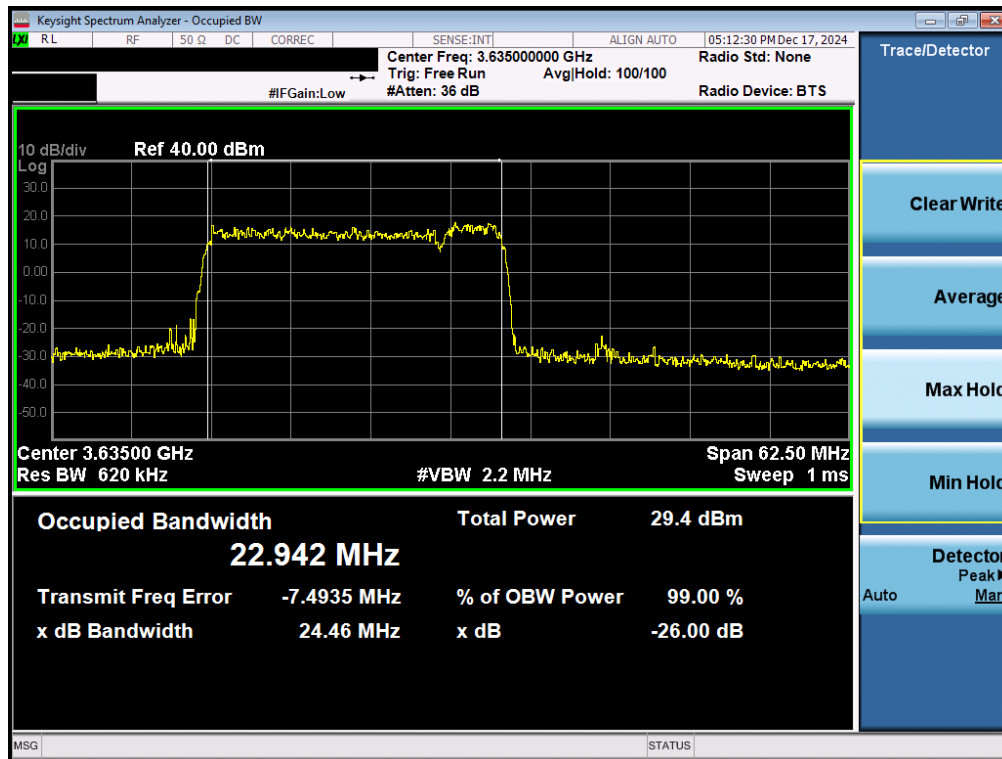


Plot 7-13. Occupied Bandwidth Plot (ULCA LB48 - 20+10MHz QPSK - Full RB Configuration - Ant6)

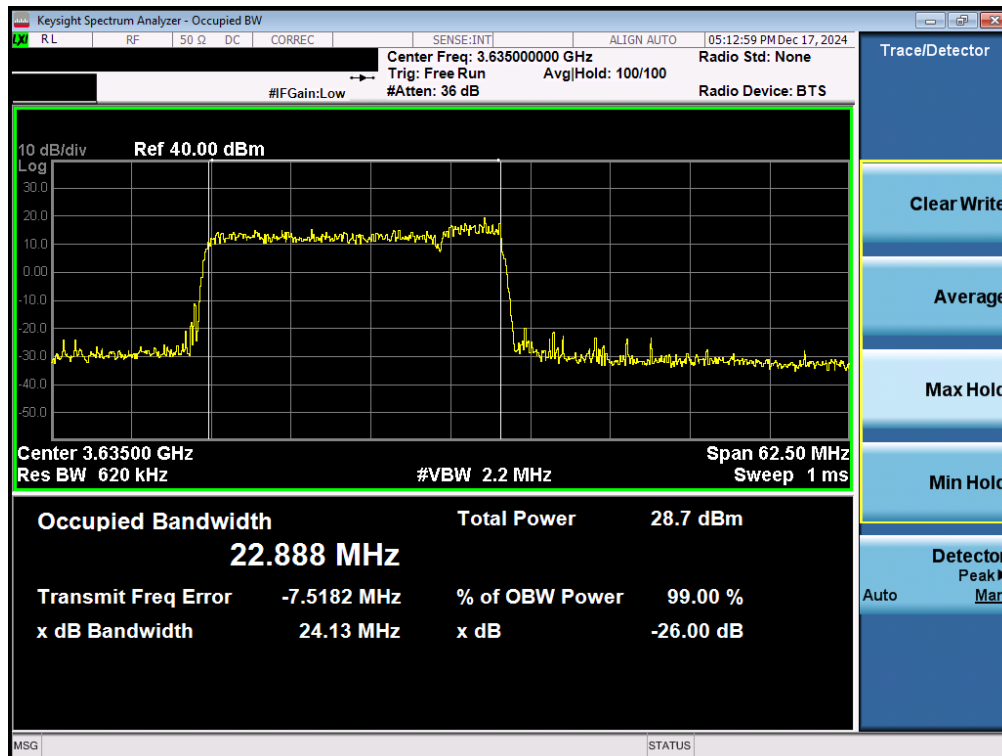


Plot 7-14. Occupied Bandwidth Plot (ULCA LB48 - 20+10MHz 16-QAM - Full RB Configuration - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 27 of 146                    |



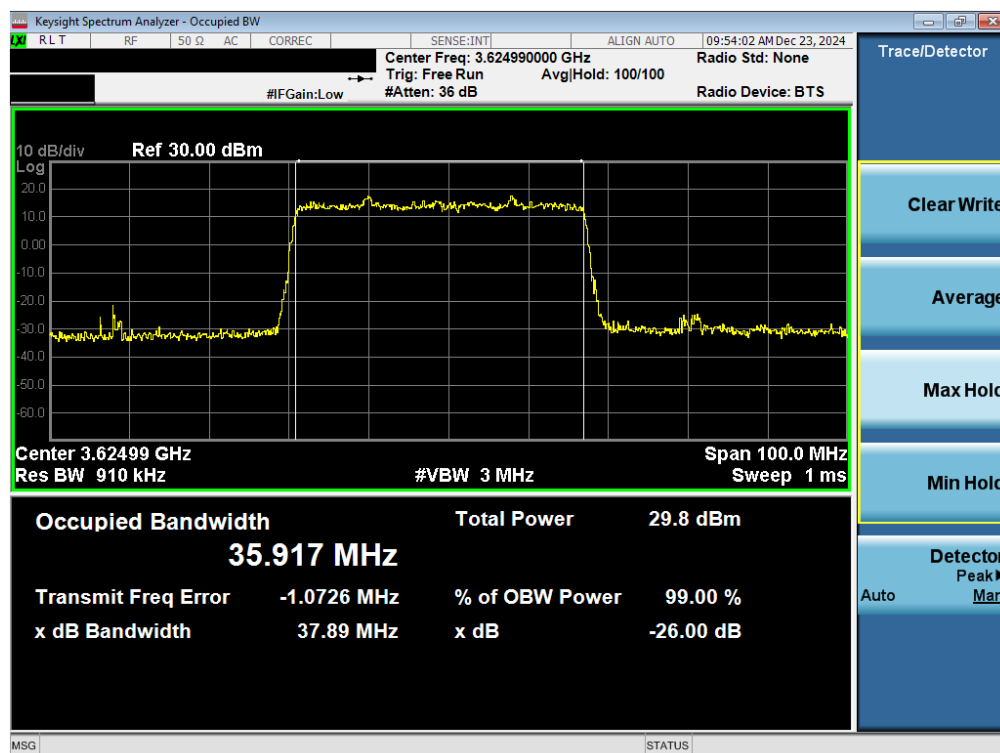
Plot 7-15. Occupied Bandwidth Plot (ULCA LB48 - 20+5MHz QPSK - Full RB Configuration - Ant6)



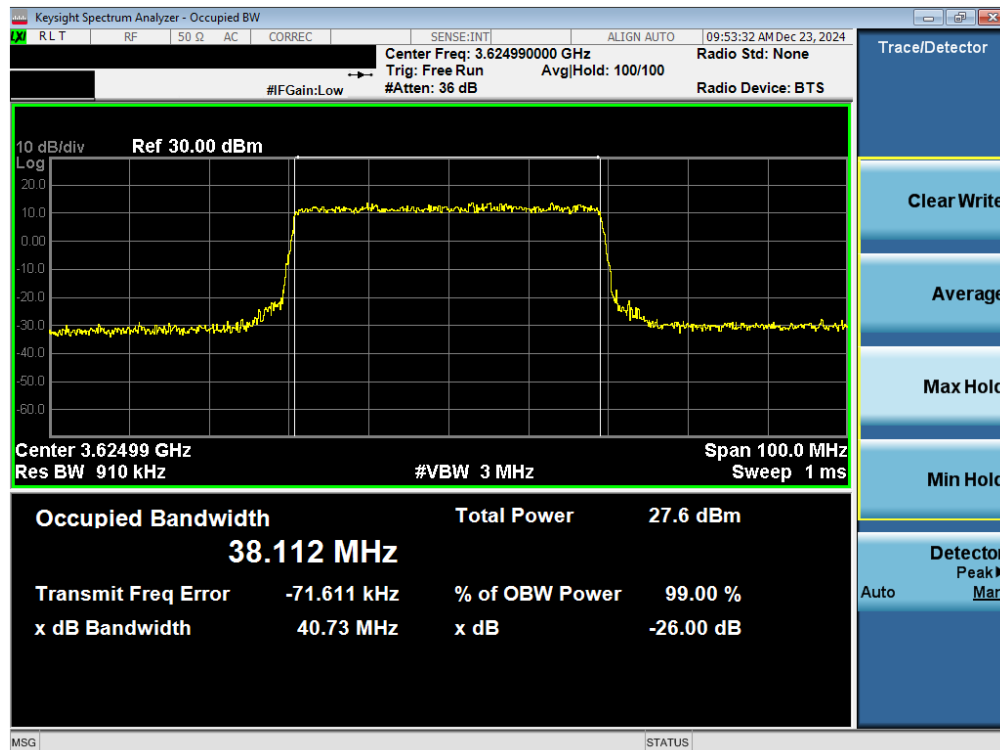
Plot 7-16. Occupied Bandwidth Plot (ULCA LB48 - 20+5MHz 16-QAM - Full RB Configuration - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 28 of 146                    |

## NR Band n48 – Ant6

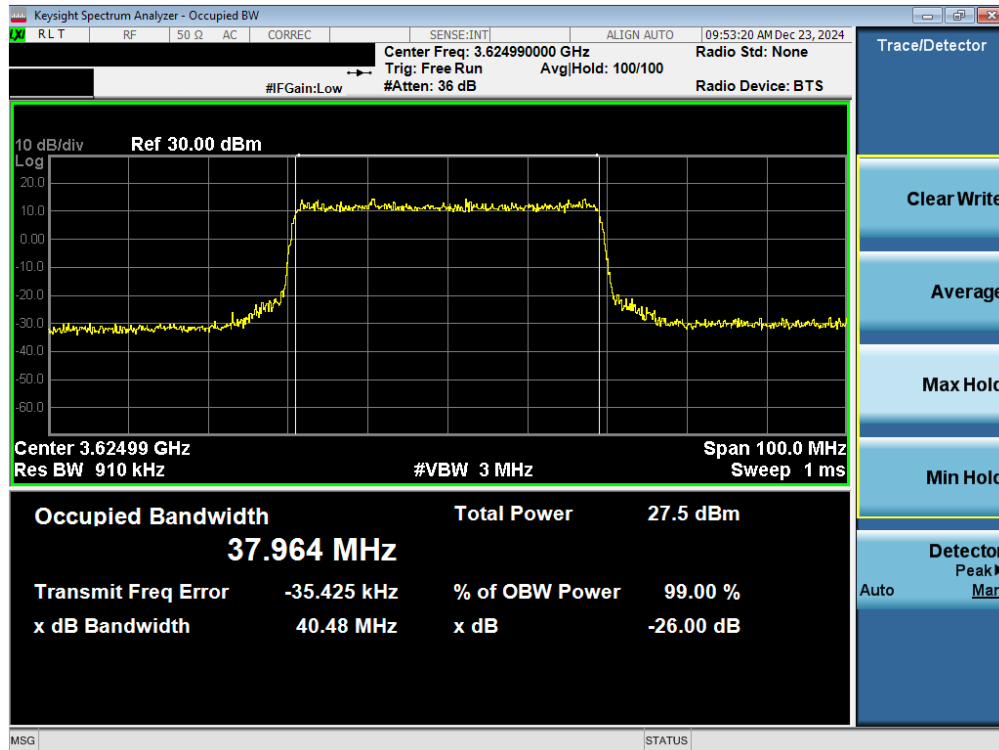


Plot 7-17. Occupied Bandwidth Plot (NR Band n48 - 40MHz  $\pi/2$  BPSK - Full RB Configuration - Ant6)

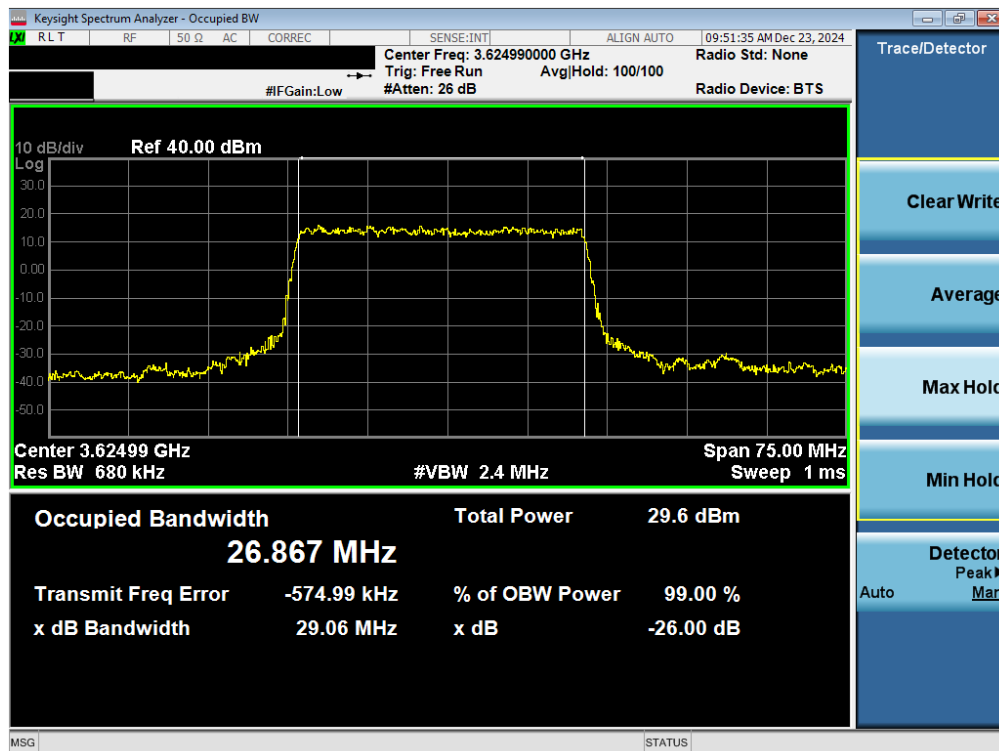


Plot 7-18. Occupied Bandwidth Plot (NR Band n48 - 40MHz QPSK - Full RB Configuration - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 29 of 146                    |

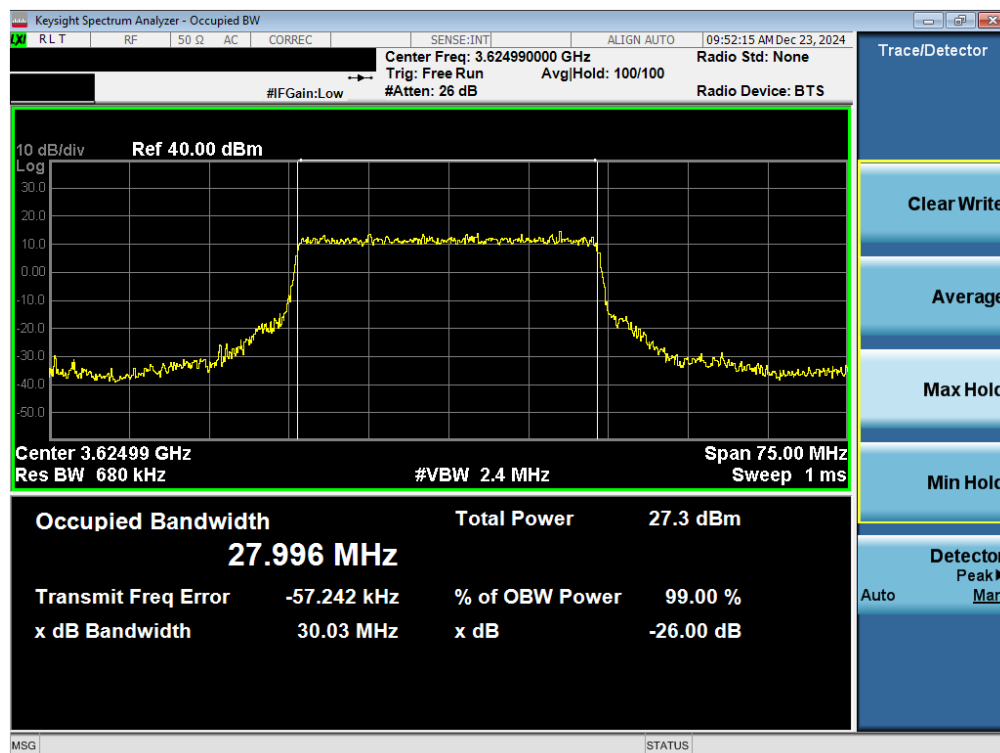


Plot 7-19. Occupied Bandwidth Plot (NR Band n48 - 40MHz 16-QAM - Full RB Configuration - Ant6)

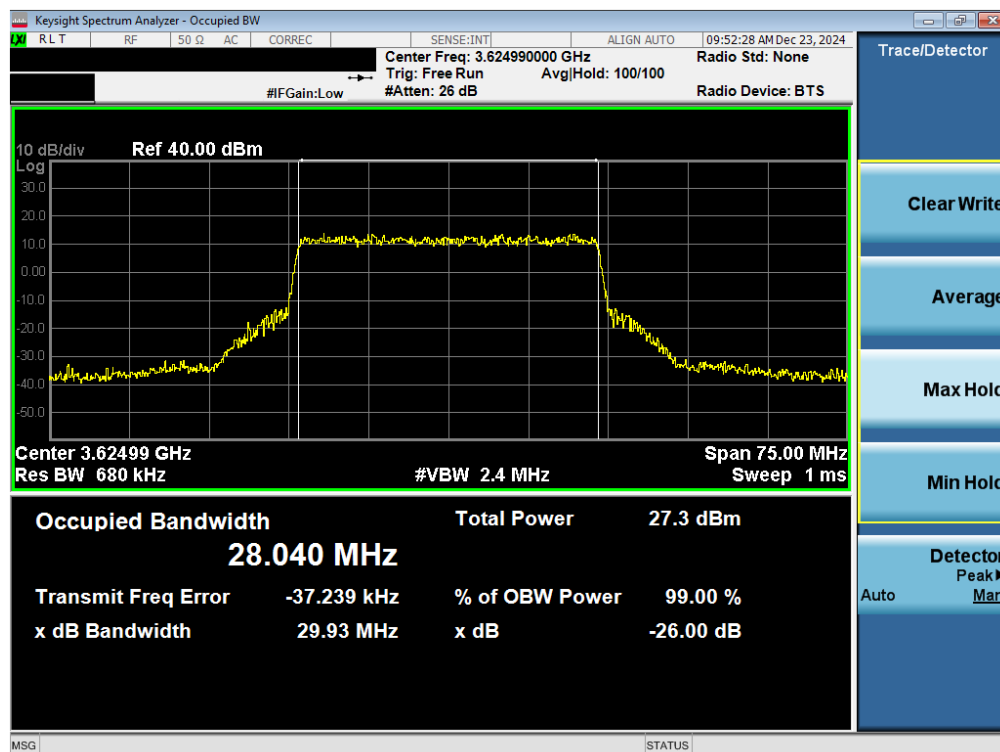


Plot 7-20. Occupied Bandwidth Plot (NR Band n48 - 30MHz  $\pi/2$  BPSK - Full RB Configuration - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 30 of 146                    |

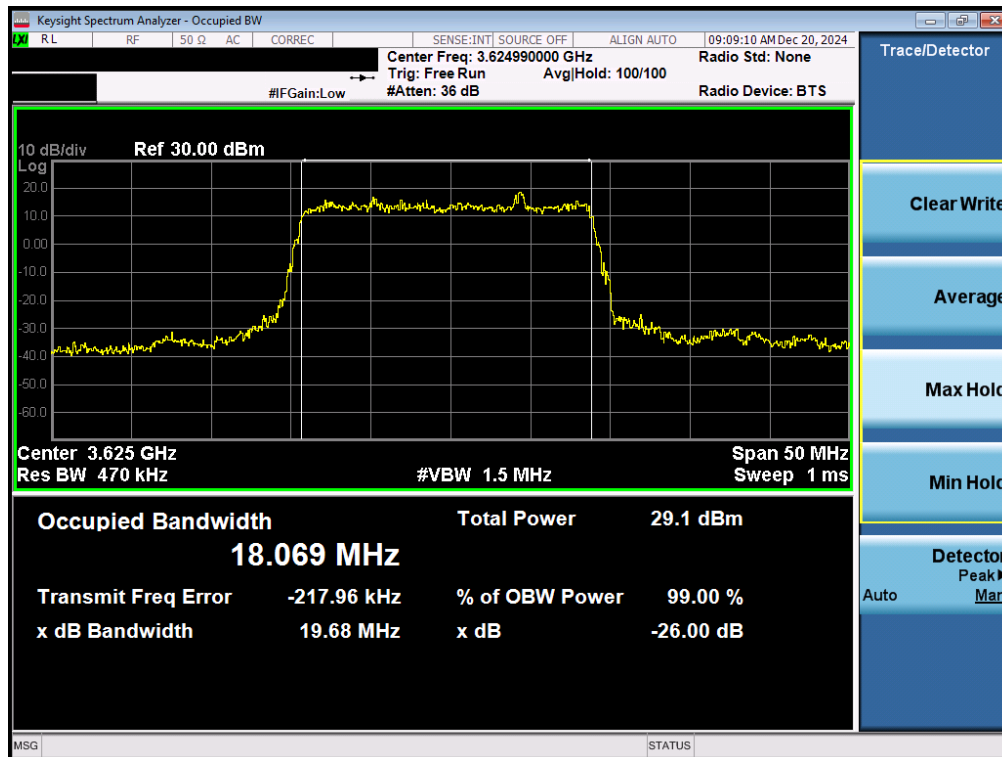


Plot 7-21. Occupied Bandwidth Plot (NR Band n48 - 30MHz QPSK - Full RB Configuration - Ant6)

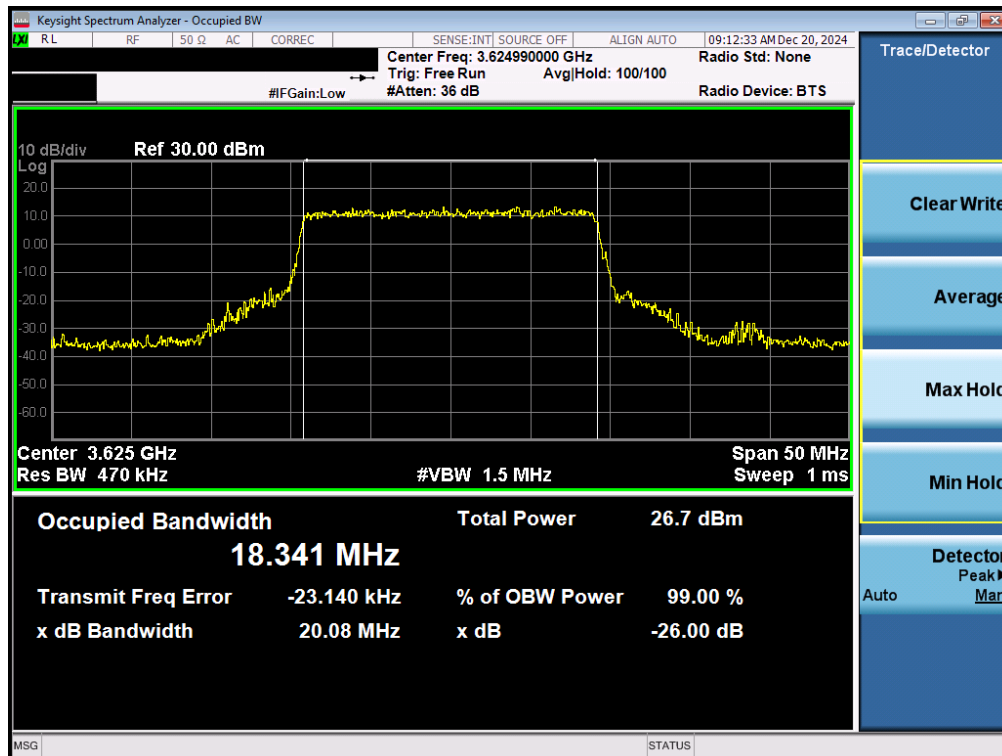


Plot 7-22. Occupied Bandwidth Plot (NR Band n48 - 30MHz 16-QAM - Full RB Configuration - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 31 of 146                    |

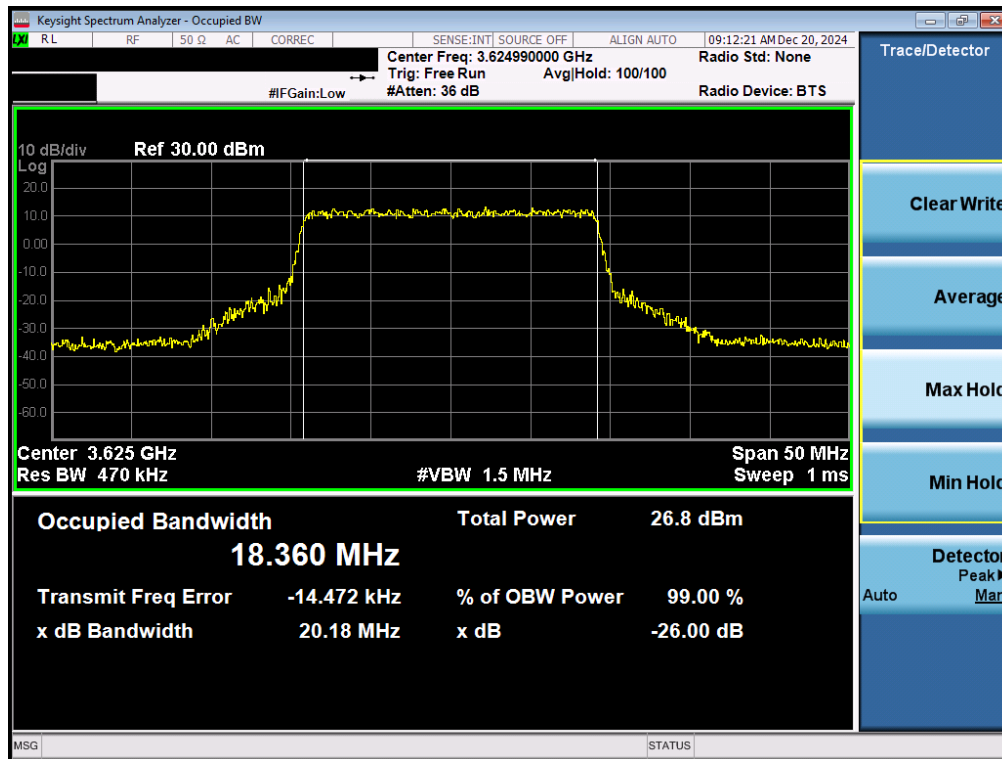


Plot 7-23. Occupied Bandwidth Plot (NR Band n48 - 20MHz  $\pi/2$  BPSK - Full RB Configuration - Ant6)

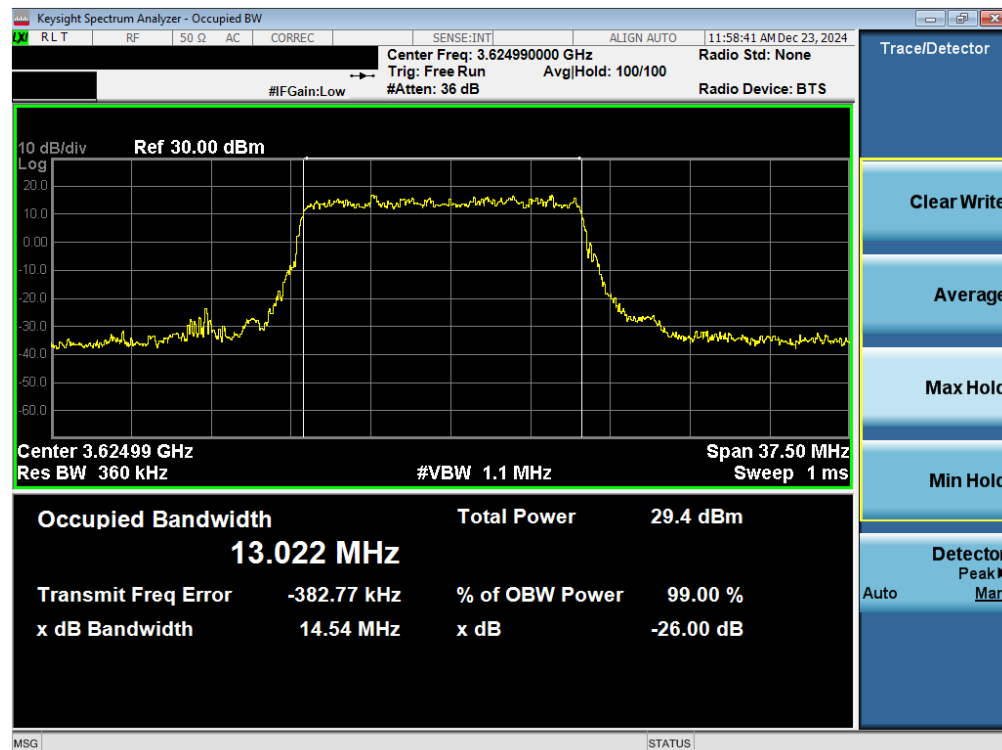


Plot 7-24. Occupied Bandwidth Plot (NR Band n48 - 20MHz QPSK - Full RB Configuration - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 32 of 146                    |

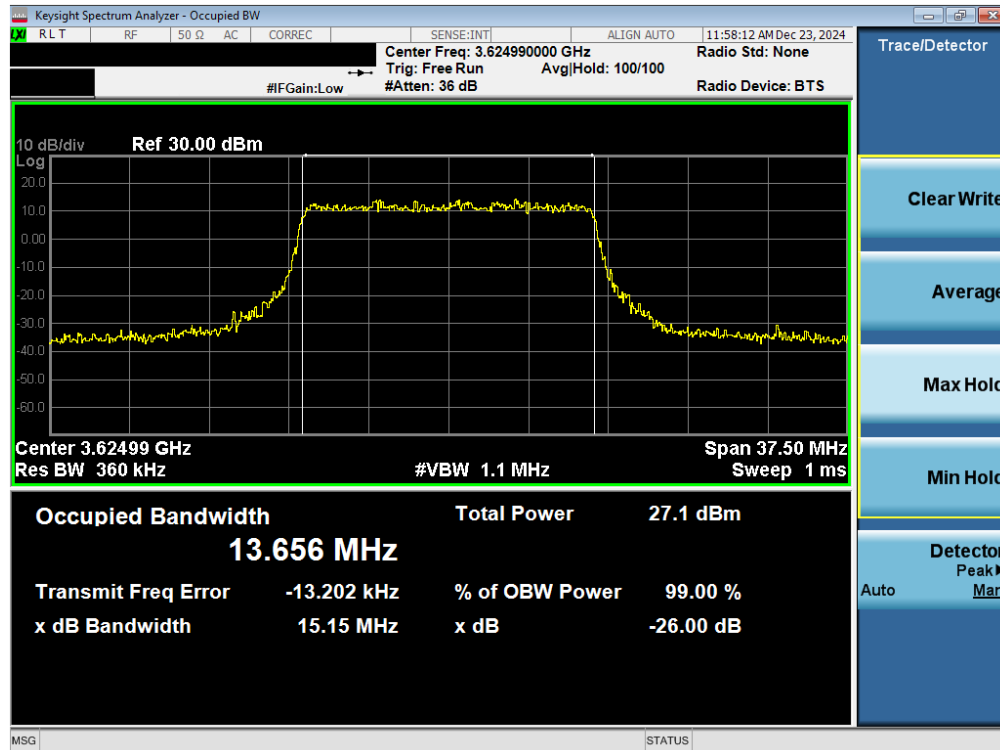


Plot 7-25. Occupied Bandwidth Plot (NR Band n48 - 20MHz 16-QAM - Full RB Configuration - Ant6)

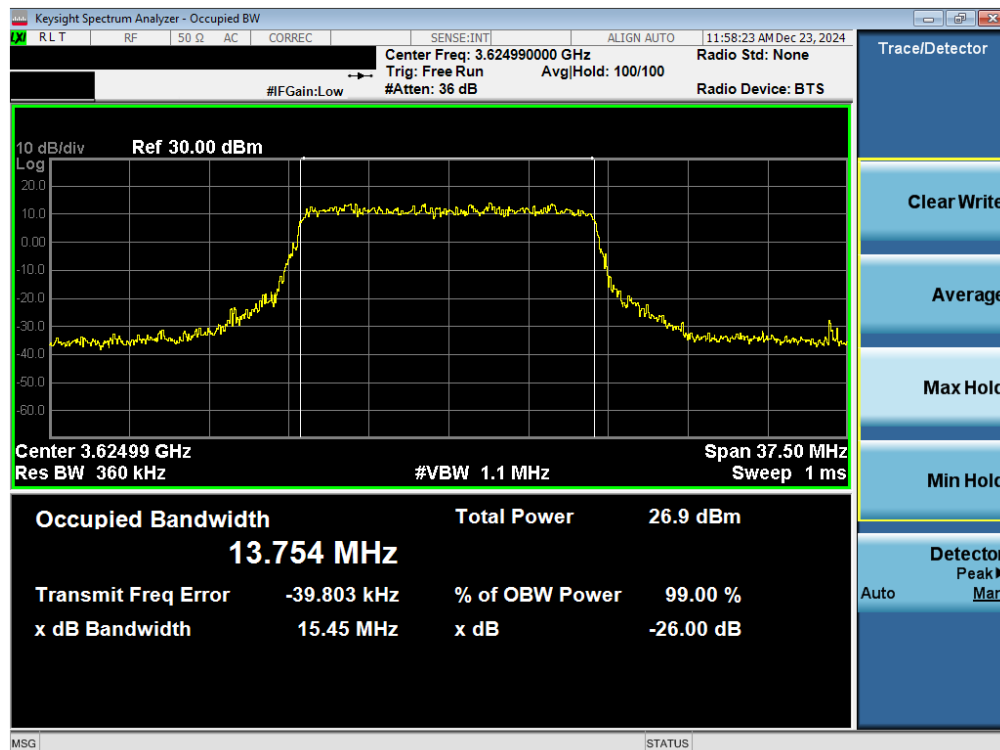


Plot 7-26. Occupied Bandwidth Plot (NR Band n48 - 15MHz  $\pi/2$  BPSK - Full RB Configuration - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 33 of 146                    |

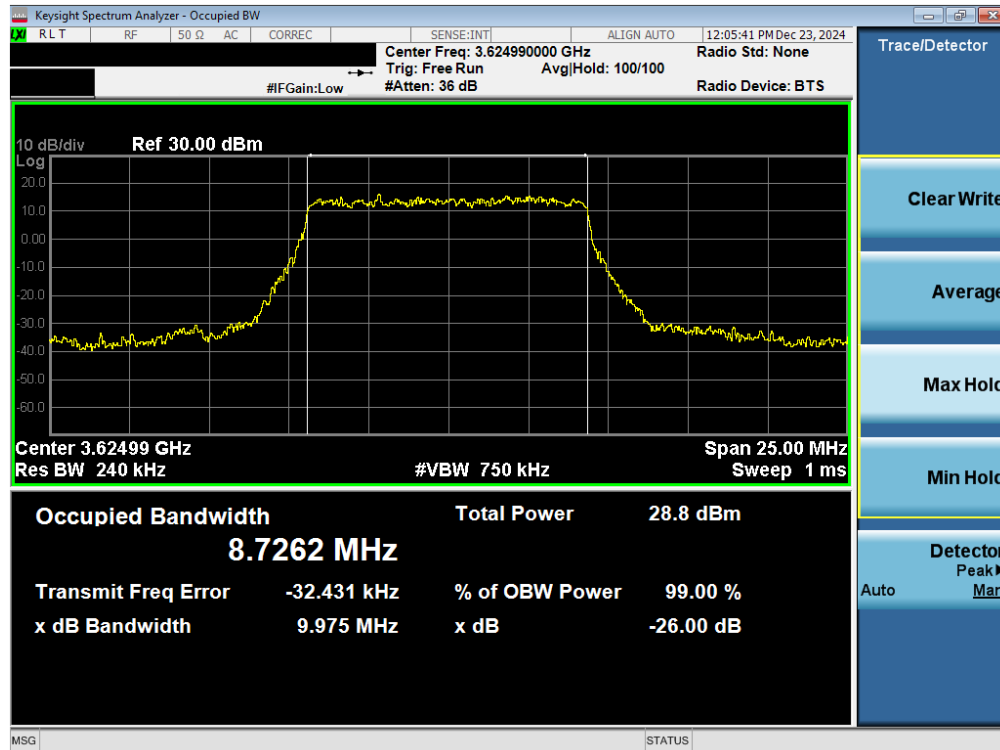


Plot 7-27. Occupied Bandwidth Plot (NR Band n48 - 15MHz QPSK - Full RB Configuration - Ant6)

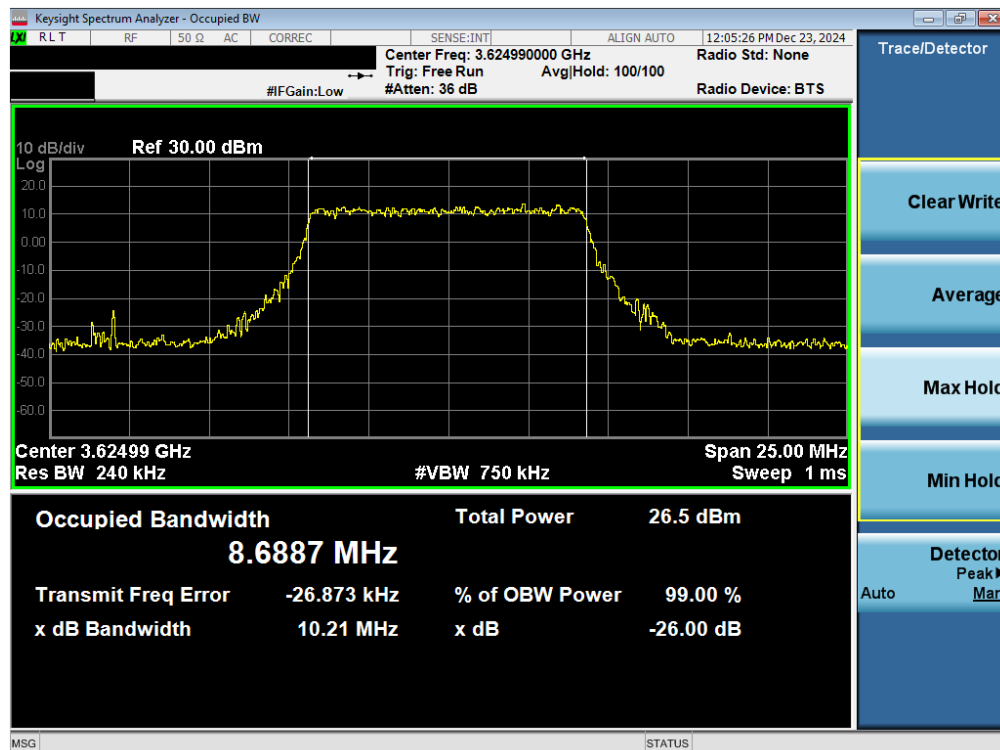


Plot 7-28. Occupied Bandwidth Plot (NR Band n48 - 15MHz 16-QAM - Full RB Configuration - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 34 of 146                    |

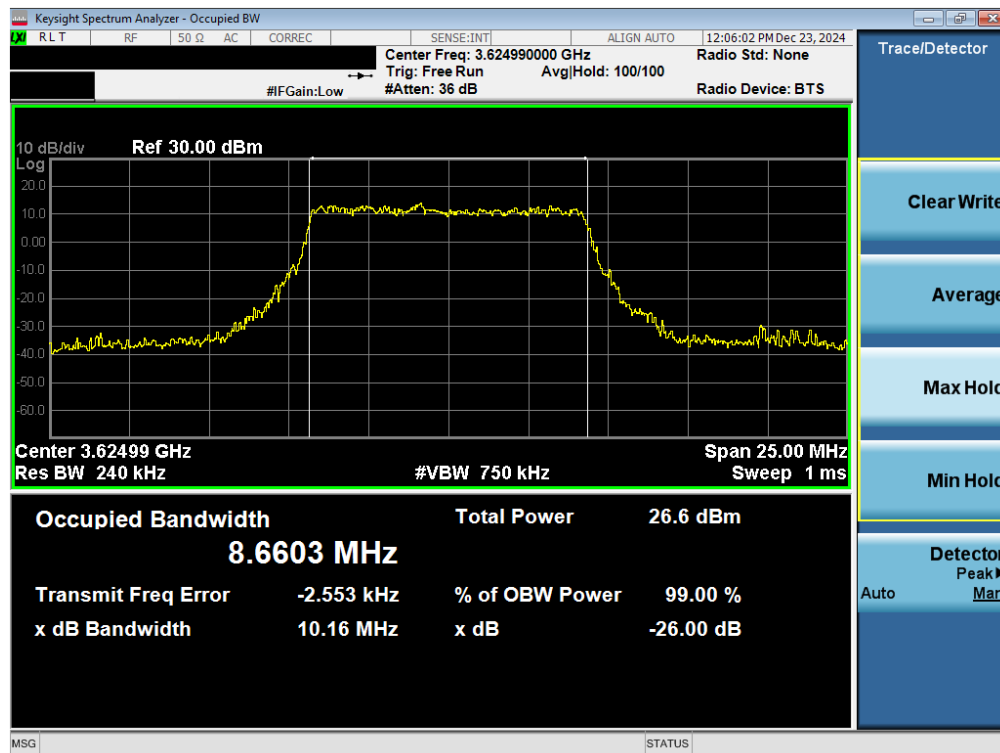


Plot 7-29. Occupied Bandwidth Plot (NR Band n48 - 10MHz  $\pi/2$  BPSK - Full RB Configuration - Ant6)



Plot 7-30. Occupied Bandwidth Plot (NR Band n48 - 10MHz QPSK - Full RB Configuration - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 35 of 146                    |



Plot 7-31. Occupied Bandwidth Plot (NR Band n48 - 10MHz 16-QAM - Full RB Configuration - Ant6)

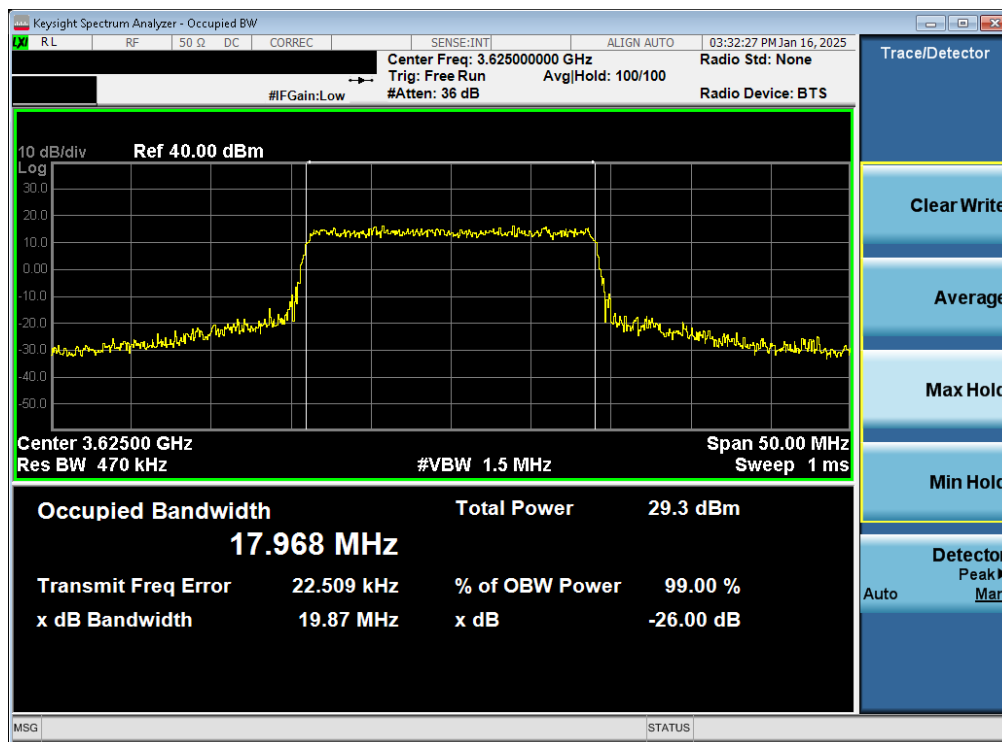
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 36 of 146                    |

| Mode    | Bandwidth | Modulation   | OBW [MHz] |
|---------|-----------|--------------|-----------|
| LTE-B48 | 20 MHz    | QPSK         | 17.97     |
|         |           | 16QAM        | 18.01     |
|         | 15 MHz    | QPSK         | 13.49     |
|         |           | 16QAM        | 13.51     |
|         | 10 MHz    | QPSK         | 9.01      |
|         |           | 16QAM        | 9.02      |
|         | 5 MHz     | QPSK         | 4.49      |
|         |           | 16QAM        | 4.52      |
| NR-n48  | 40MHz     | $\pi/2$ BPSK | 35.77     |
|         |           | QPSK         | 38.05     |
|         |           | 16QAM        | 38.07     |
|         | 30MHz     | $\pi/2$ BPSK | 27.03     |
|         |           | QPSK         | 27.99     |
|         |           | 16QAM        | 28.11     |
|         | 20MHz     | $\pi/2$ BPSK | 17.96     |
|         |           | QPSK         | 18.31     |
|         |           | 16QAM        | 18.35     |
|         | 15MHz     | $\pi/2$ BPSK | 13.02     |
|         |           | QPSK         | 13.73     |
|         |           | 16QAM        | 13.70     |
|         | 10 MHz    | $\pi/2$ BPSK | 8.69      |
|         |           | QPSK         | 8.69      |
|         |           | 16QAM        | 8.70      |

**Table 7-11. Occupied Bandwidth Test Results – Ant1**

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 37 of 146                    |

## LTE Band 48 – Ant1

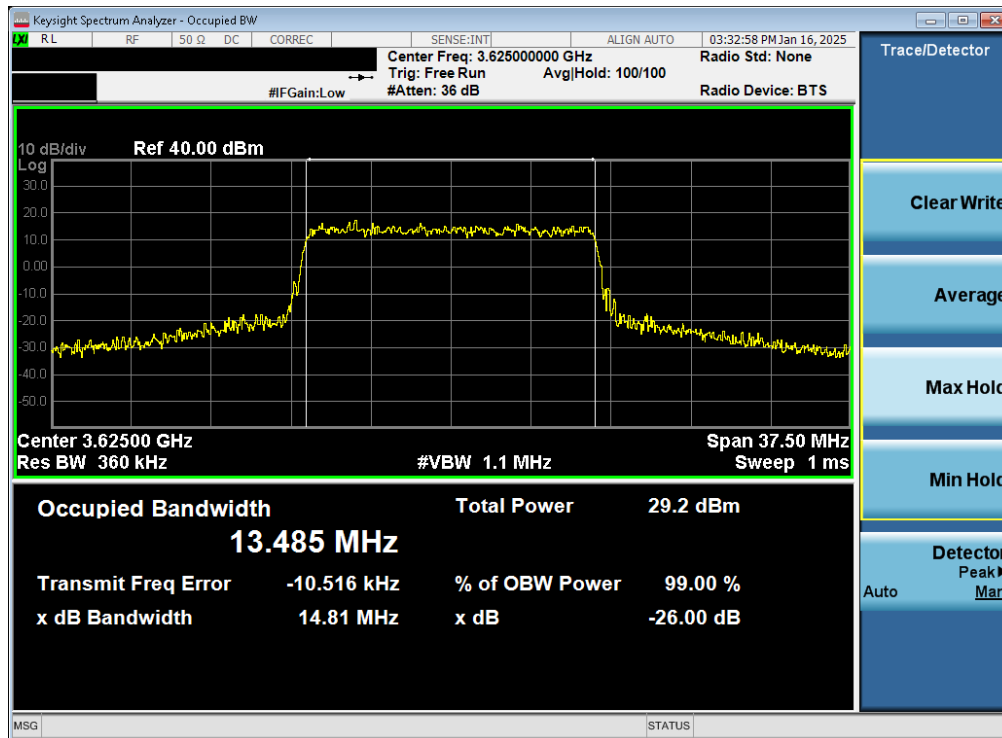


Plot 7-32. Occupied Bandwidth Plot (LTE Band 48 - 20MHz QPSK - Full RB Configuration - Ant1)

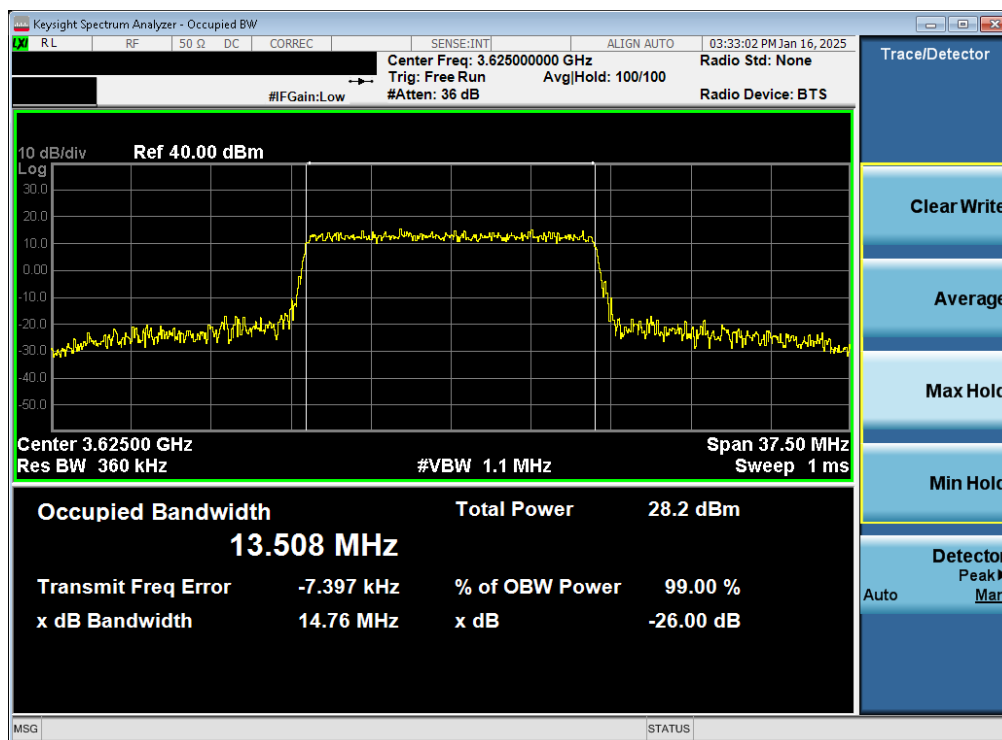


Plot 7-33. Occupied Bandwidth Plot (LTE Band 48 - 20MHz 16-QAM - Full RB Configuration - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 38 of 146                    |

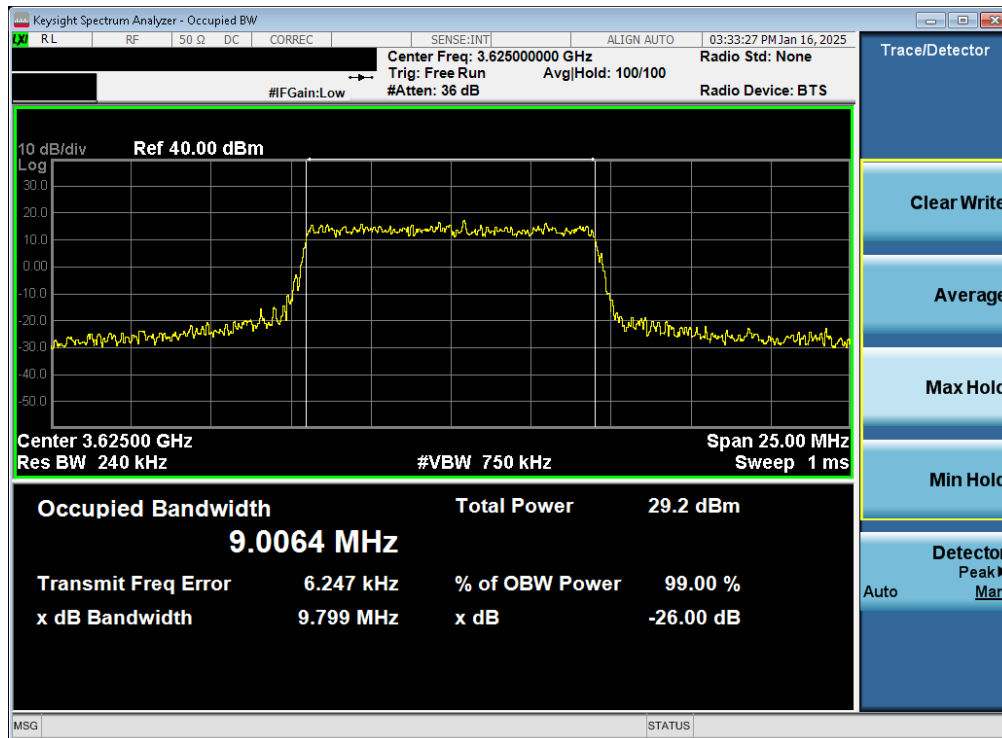


Plot 7-34. Occupied Bandwidth Plot (LTE Band 48 - 15MHz QPSK - Full RB Configuration - Ant1)

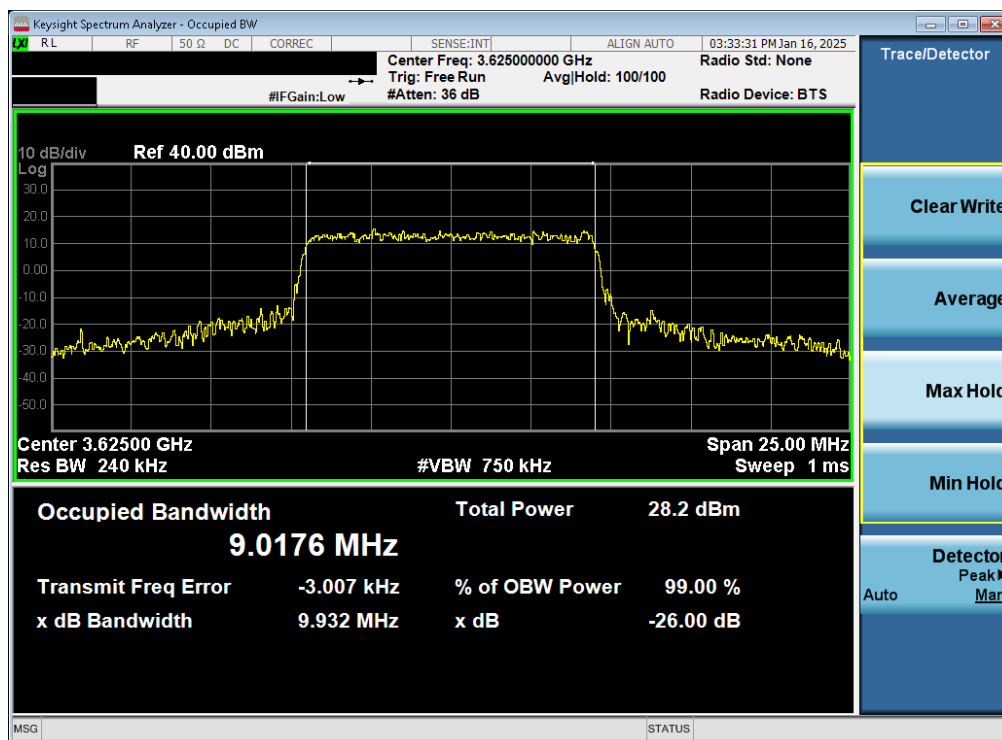


Plot 7-35. Occupied Bandwidth Plot (LTE Band 48 - 15MHz 16-QAM - Full RB Configuration - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 39 of 146                    |

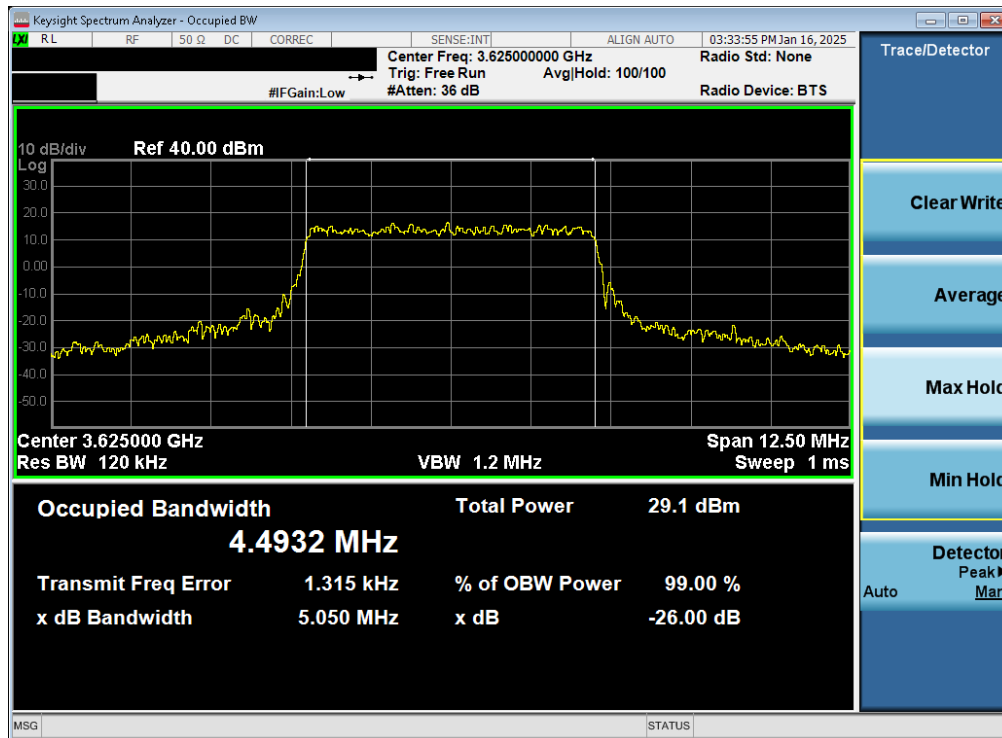


Plot 7-36. Occupied Bandwidth Plot (LTE Band 48 - 10MHz QPSK - Full RB Configuration - Ant1)

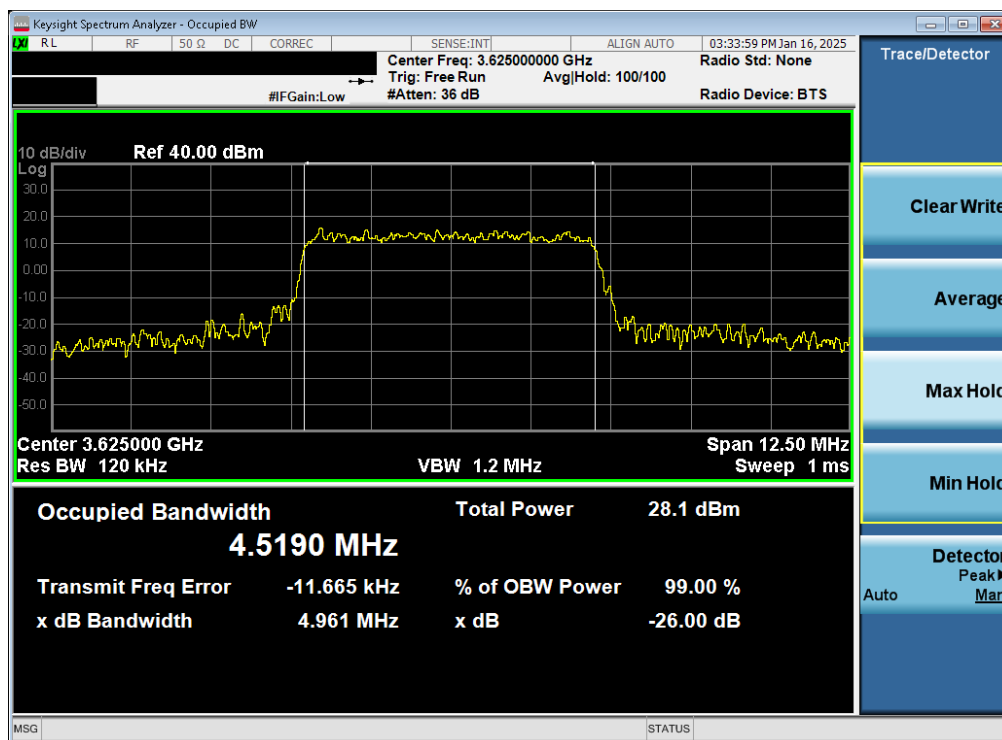


Plot 7-37. Occupied Bandwidth Plot (LTE Band 48 - 10MHz 16-QAM - Full RB Configuration - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 40 of 146                    |



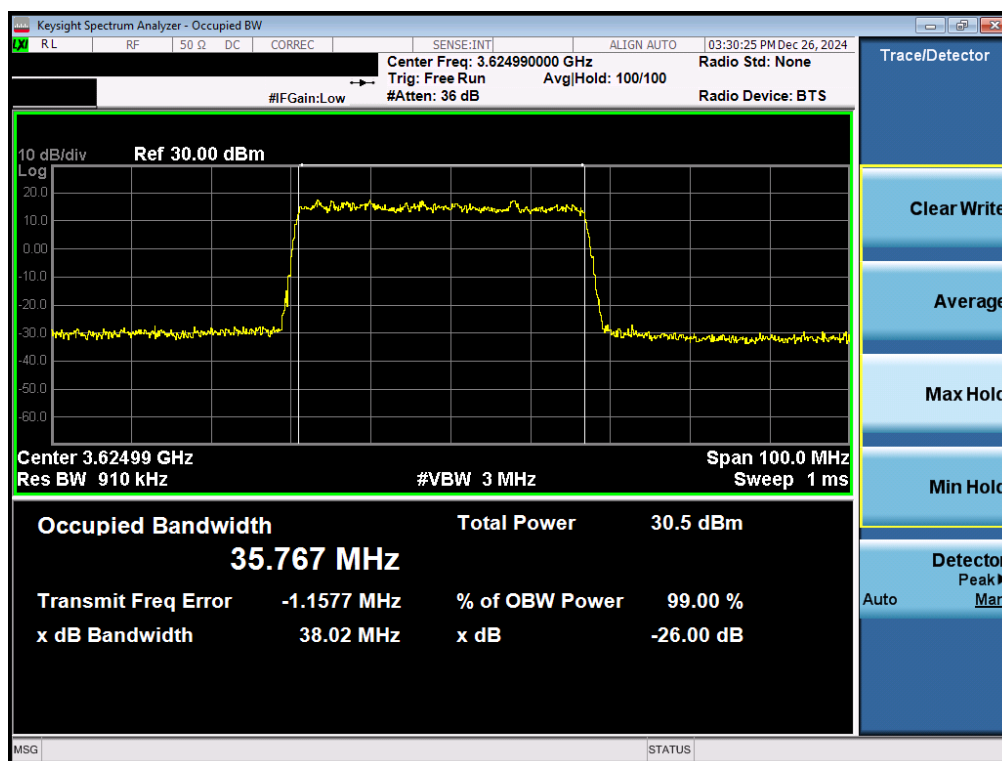
Plot 7-38. Occupied Bandwidth Plot (LTE Band 48 - 5MHz QPSK - Full RB Configuration - Ant1)



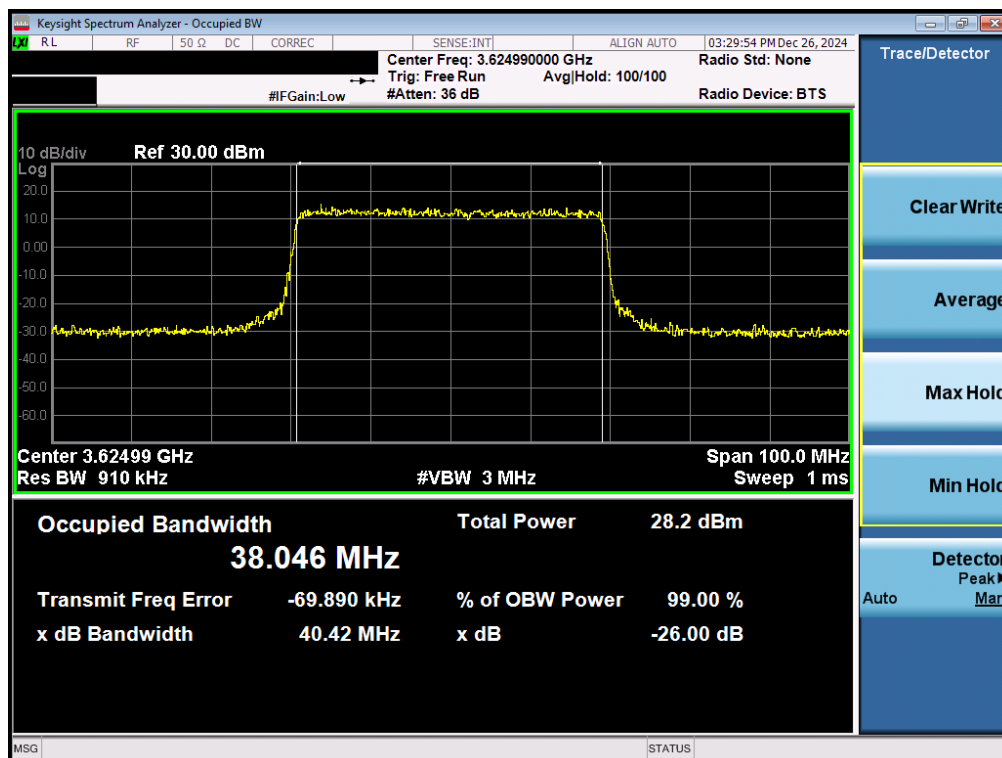
Plot 7-39. Occupied Bandwidth Plot (LTE Band 48 - 5MHz 16-QAM - Full RB Configuration - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 41 of 146                    |

## NR Band n48 – Ant1

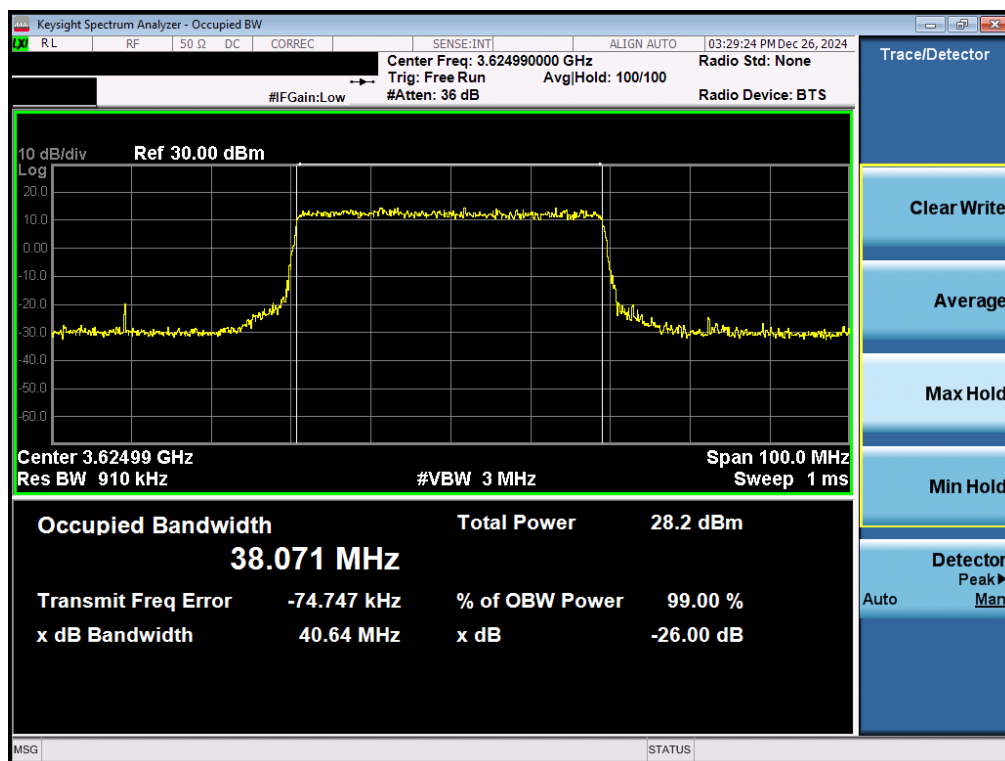


Plot 7-40. Occupied Bandwidth Plot (NR Band n48 - 40MHz  $\pi/2$  BPSK - Full RB Configuration - Ant1)

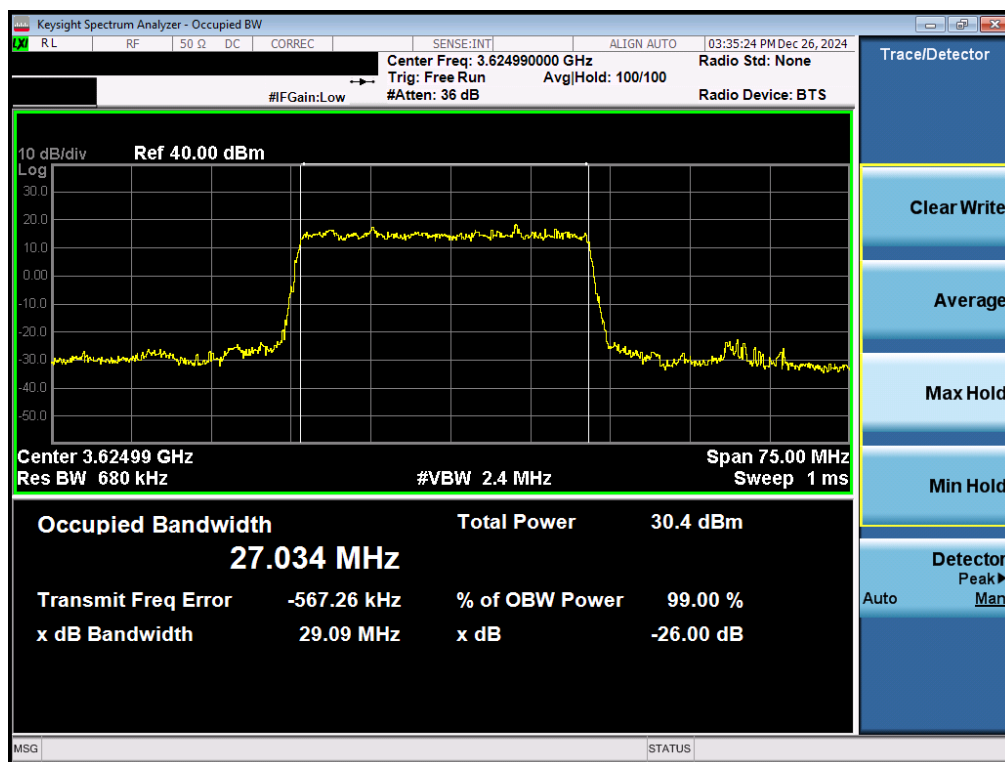


Plot 7-41. Occupied Bandwidth Plot (NR Band n48 - 40MHz QPSK - Full RB Configuration - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 42 of 146                    |

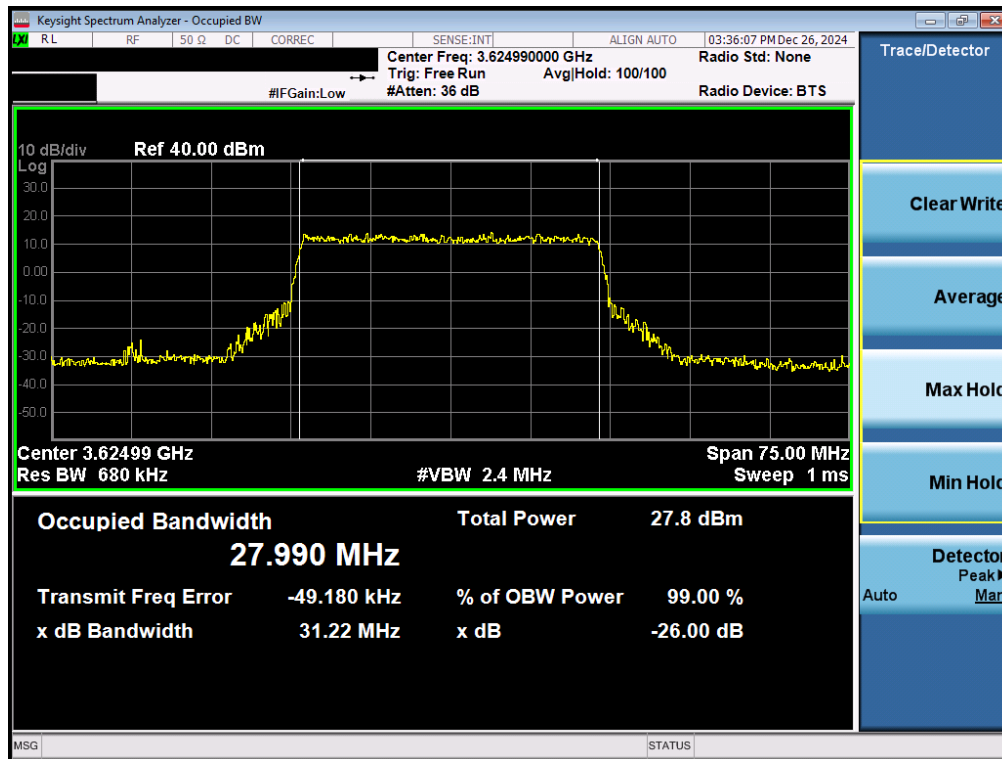


Plot 7-42. Occupied Bandwidth Plot (NR Band n48 - 40MHz 16-QAM - Full RB Configuration - Ant1)

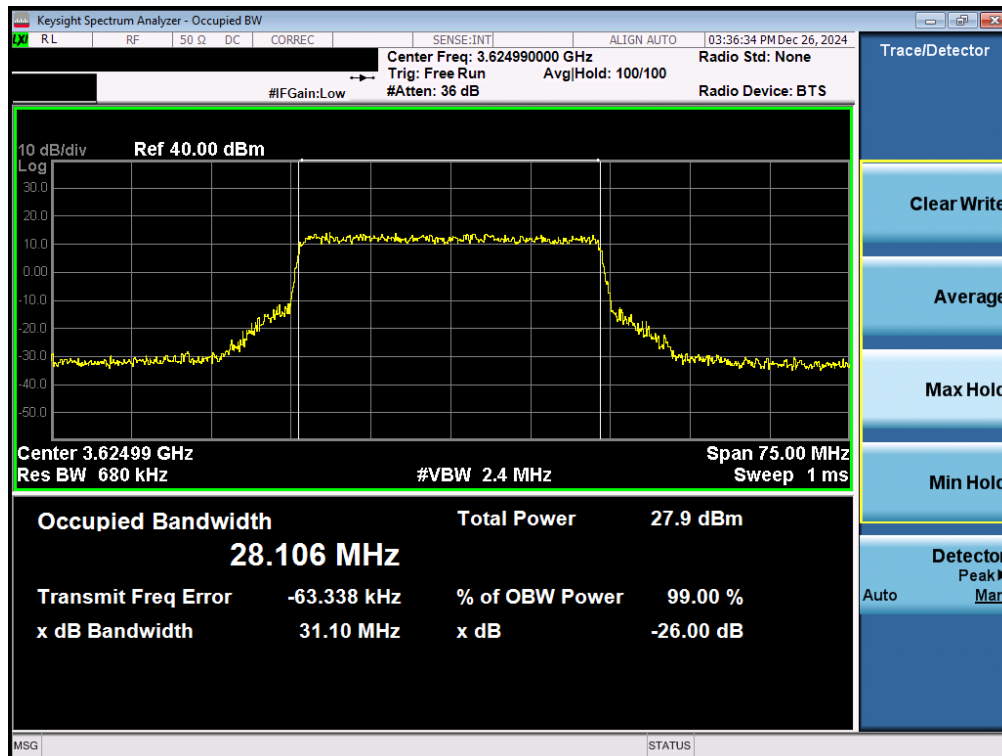


Plot 7-43. Occupied Bandwidth Plot (NR Band n48 - 30MHz  $\pi/2$  BPSK - Full RB Configuration - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 43 of 146                    |

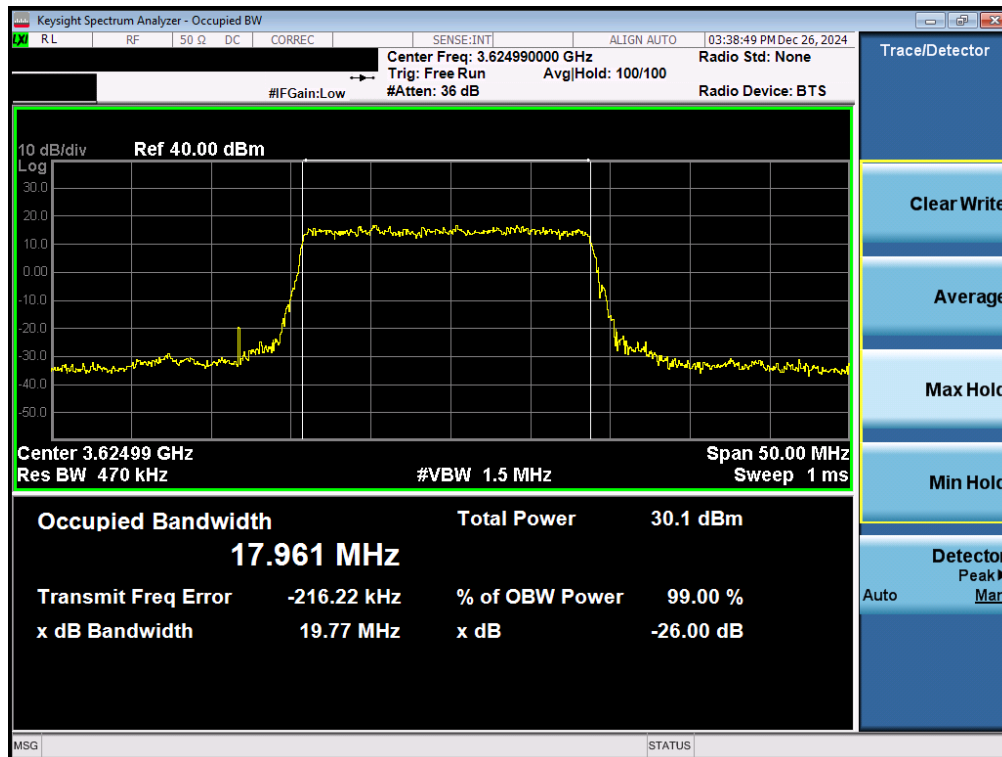


Plot 7-44. Occupied Bandwidth Plot (NR Band n48 - 30MHz QPSK - Full RB Configuration - Ant1)

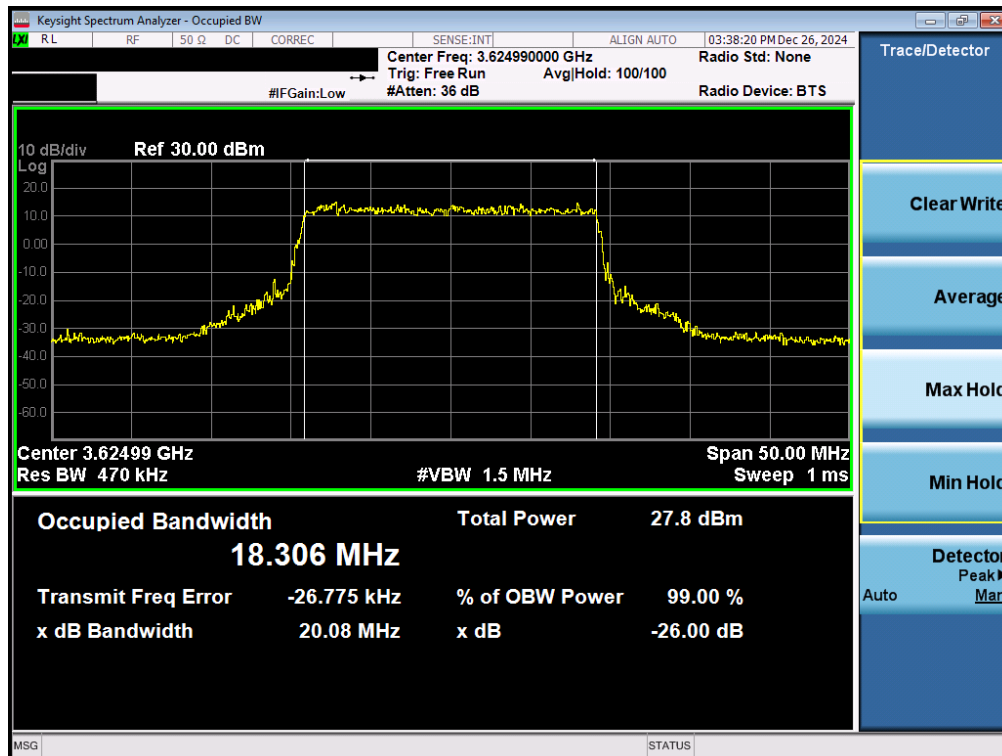


Plot 7-45. Occupied Bandwidth Plot (NR Band n48 - 30MHz 16-QAM - Full RB Configuration - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 44 of 146                    |

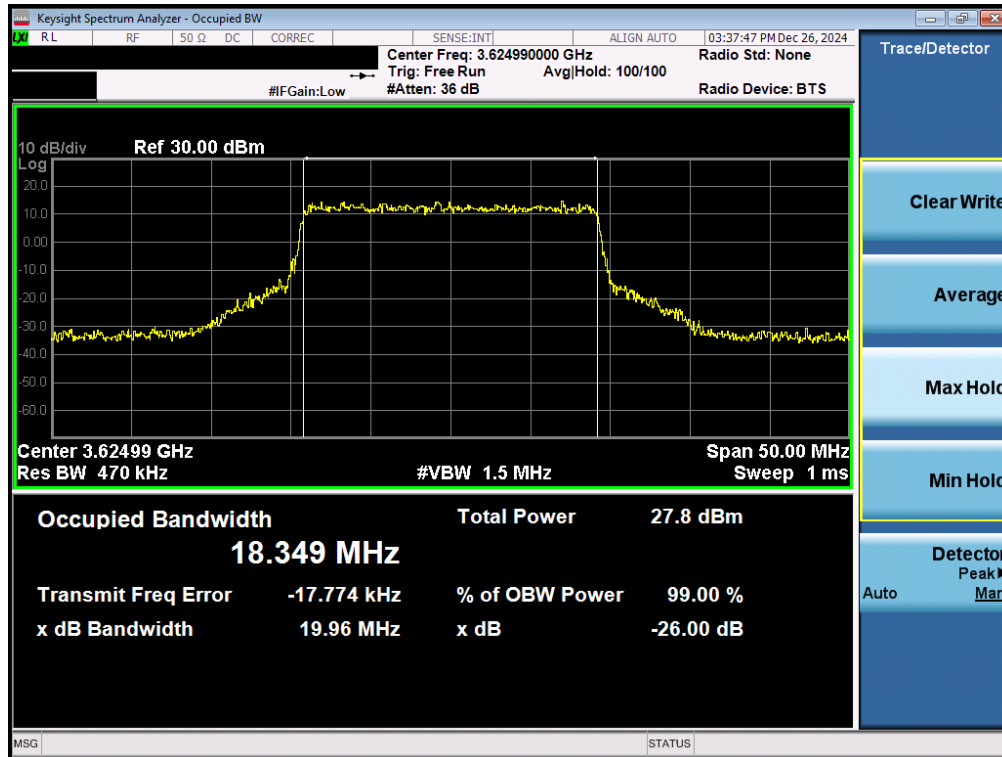


Plot 7-46. Occupied Bandwidth Plot (NR Band n48 - 20MHz  $\pi/2$  BPSK - Full RB Configuration - Ant1)

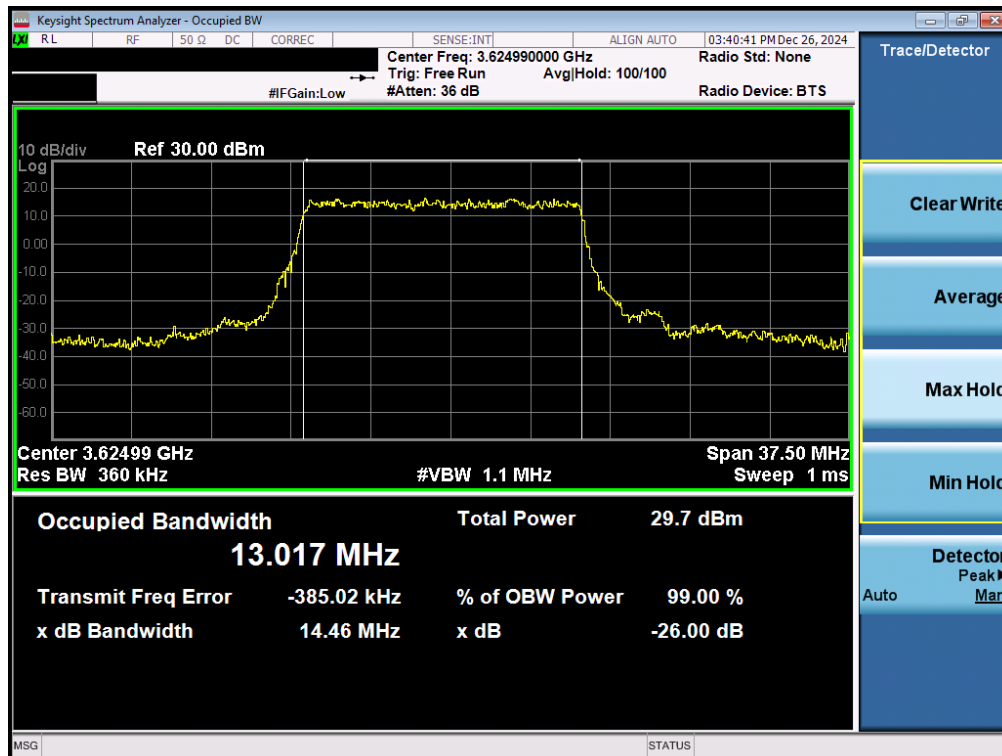


Plot 7-47. Occupied Bandwidth Plot (NR Band n48 - 20MHz QPSK - Full RB Configuration - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 45 of 146                    |

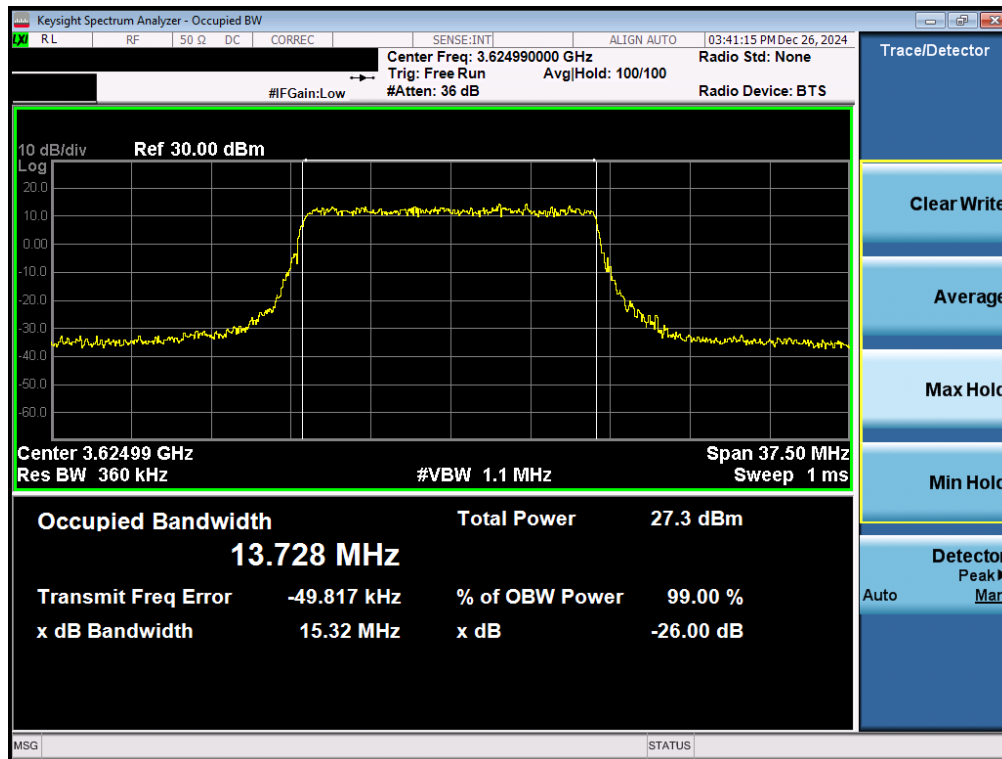


Plot 7-48. Occupied Bandwidth Plot (NR Band n48 - 20MHz 16-QAM - Full RB Configuration - Ant1)

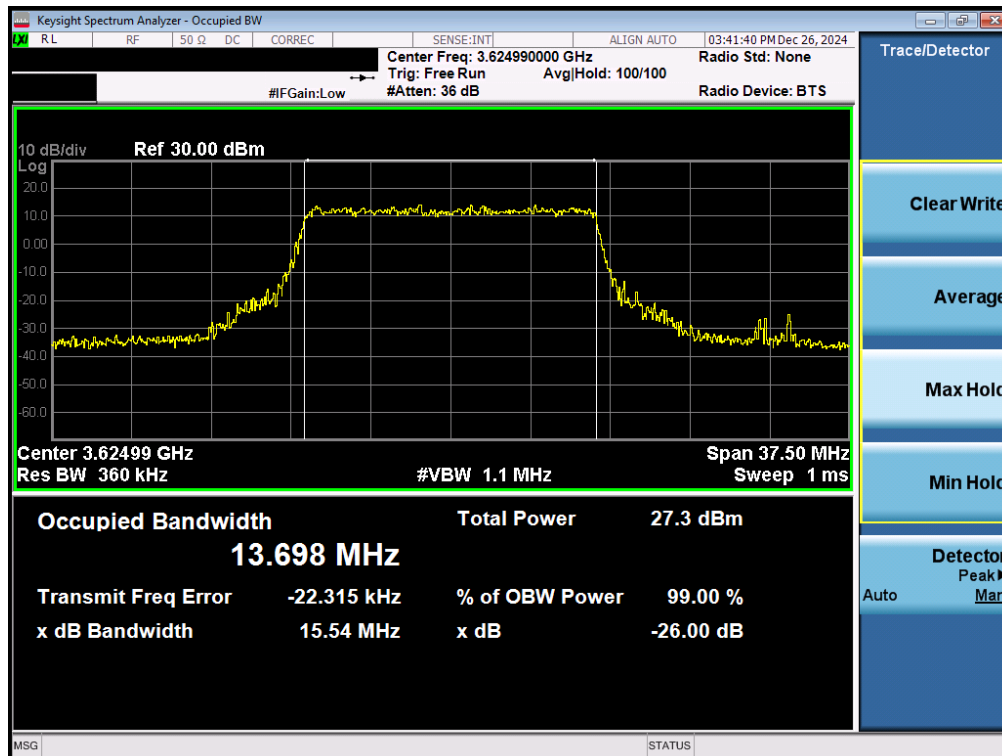


Plot 7-49. Occupied Bandwidth Plot (NR Band n48 - 15MHz  $\pi/2$  BPSK - Full RB Configuration - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 46 of 146                    |

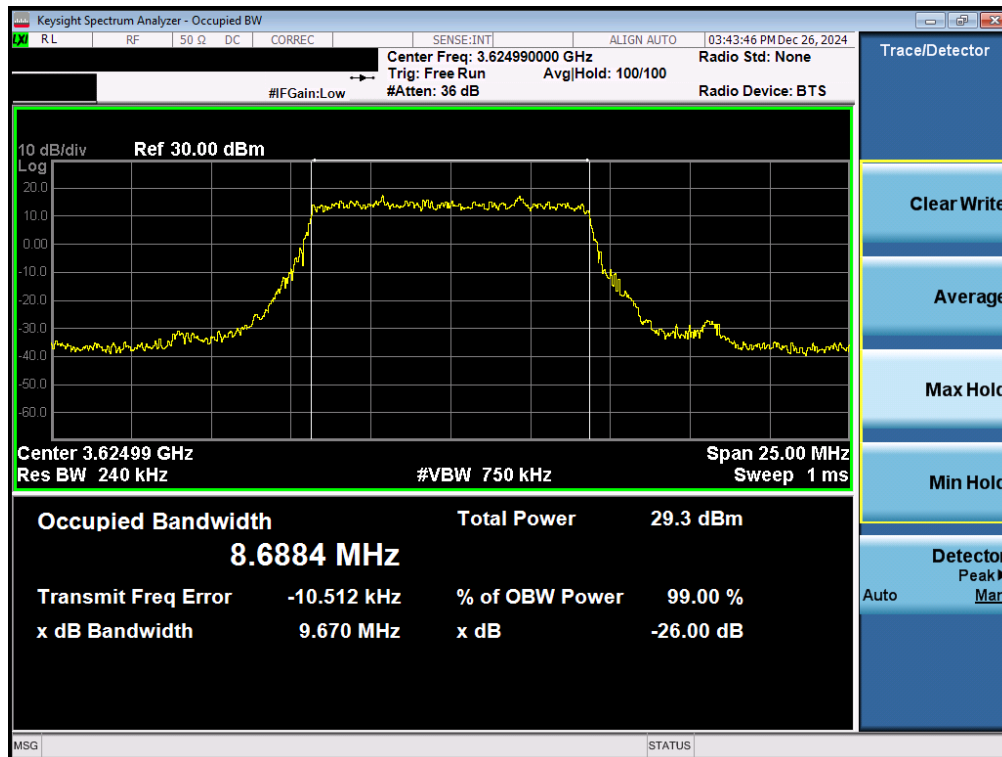


Plot 7-50. Occupied Bandwidth Plot (NR Band n48 - 15MHz QPSK - Full RB Configuration - Ant1)

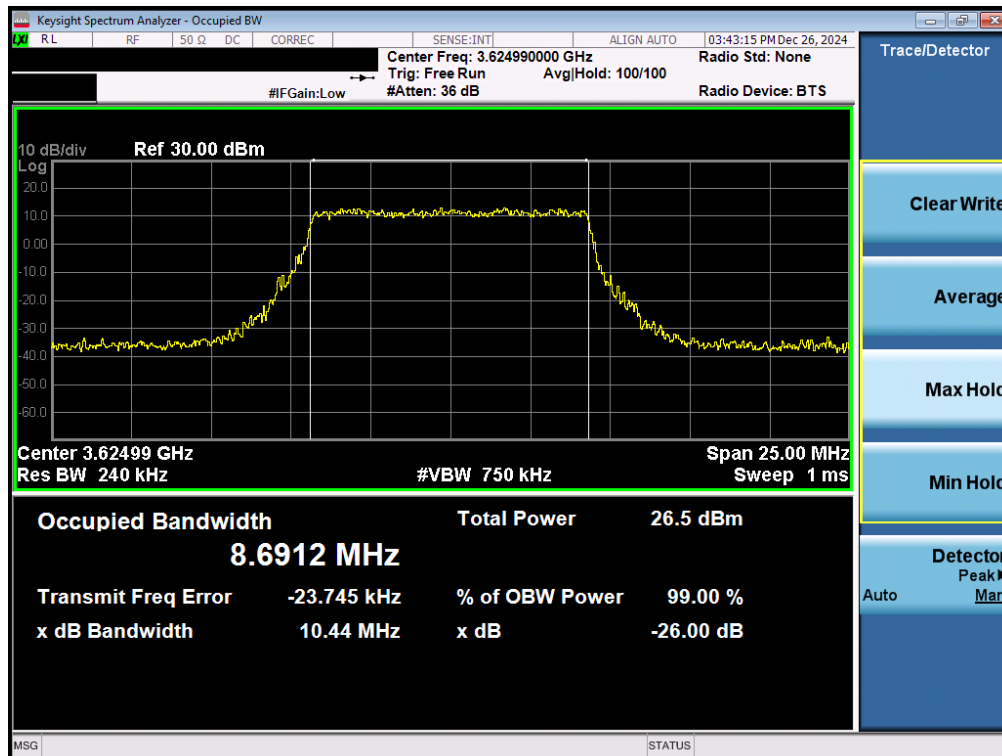


Plot 7-51. Occupied Bandwidth Plot (NR Band n48 - 15MHz 16-QAM - Full RB Configuration - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 47 of 146                    |

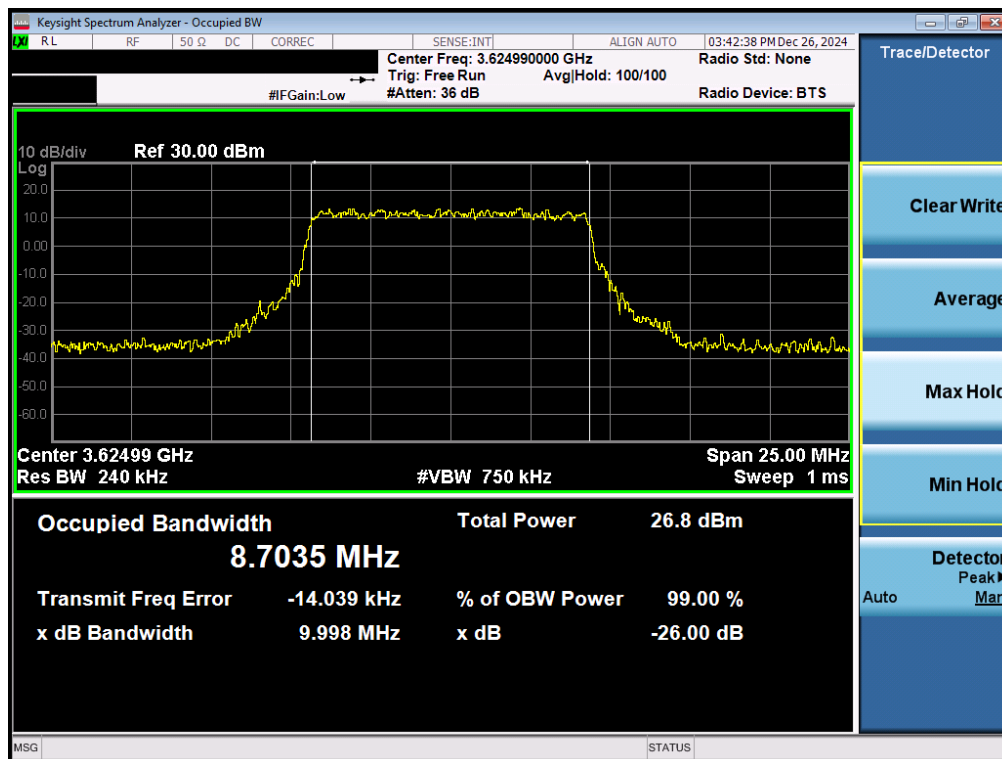


Plot 7-52. Occupied Bandwidth Plot (NR Band n48 - 10MHz  $\pi/2$  BPSK - Full RB Configuration - Ant1)



Plot 7-53. Occupied Bandwidth Plot (NR Band n48 - 10MHz QPSK - Full RB Configuration - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 48 of 146                    |



Plot 7-54. Occupied Bandwidth Plot (NR Band n48 - 10MHz 16-QAM - Full RB Configuration - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 49 of 146                    |

| Mode   | Bandwidth | Modulation   | OBW [MHz] |
|--------|-----------|--------------|-----------|
| NR-n48 | 40MHz     | $\pi/2$ BPSK | 36.00     |
|        |           | QPSK         | 38.06     |
|        |           | 16QAM        | 38.01     |

Table 7-12. Occupied Bandwidth Test Results – SRS Ant3

| Mode   | Bandwidth | Modulation   | OBW [MHz] |
|--------|-----------|--------------|-----------|
| NR-n48 | 40MHz     | $\pi/2$ BPSK | 35.95     |
|        |           | QPSK         | 38.02     |
|        |           | 16QAM        | 37.98     |

Table 7-13. Occupied Bandwidth Test Results – SRS Ant4

| Mode          | Bandwidth | Modulation   | OBW [MHz] |
|---------------|-----------|--------------|-----------|
| UL MIMO NR-48 | 40MHz     | $\pi/2$ BPSK | 35.90     |
|               |           | QPSK         | 37.95     |
|               |           | 16QAM        | 38.13     |

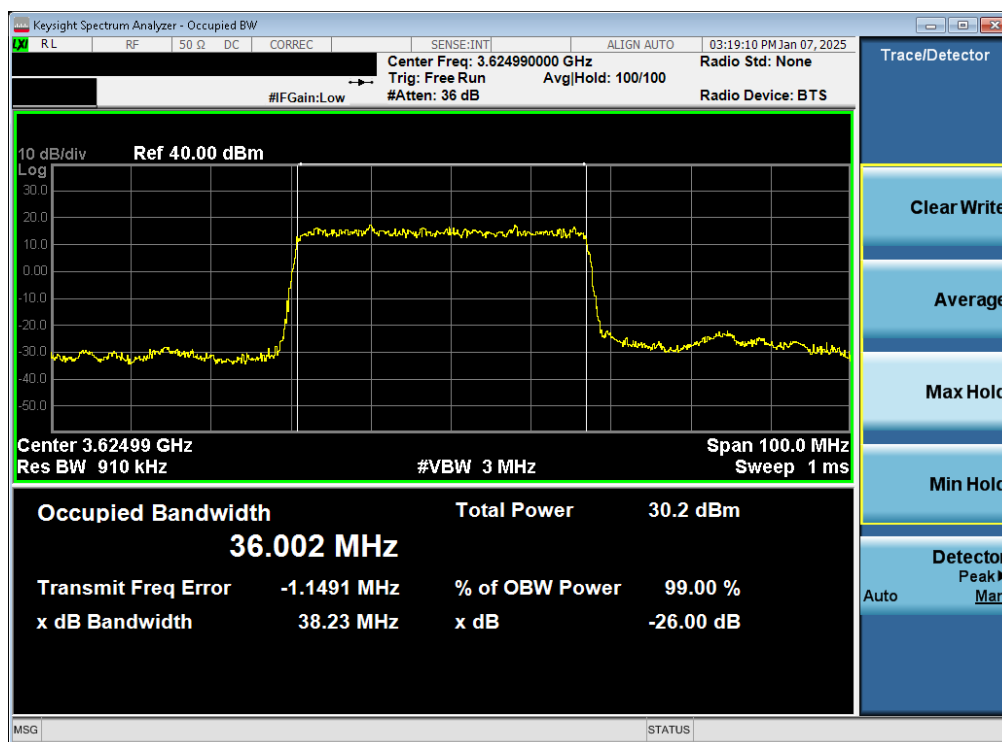
Table 7-14. Occupied Bandwidth Test Results – UL MIMO Ant6

| Mode          | Bandwidth | Modulation   | OBW [MHz] |
|---------------|-----------|--------------|-----------|
| UL MIMO NR-48 | 40MHz     | $\pi/2$ BPSK | 35.87     |
|               |           | QPSK         | 38.08     |
|               |           | 16QAM        | 37.92     |

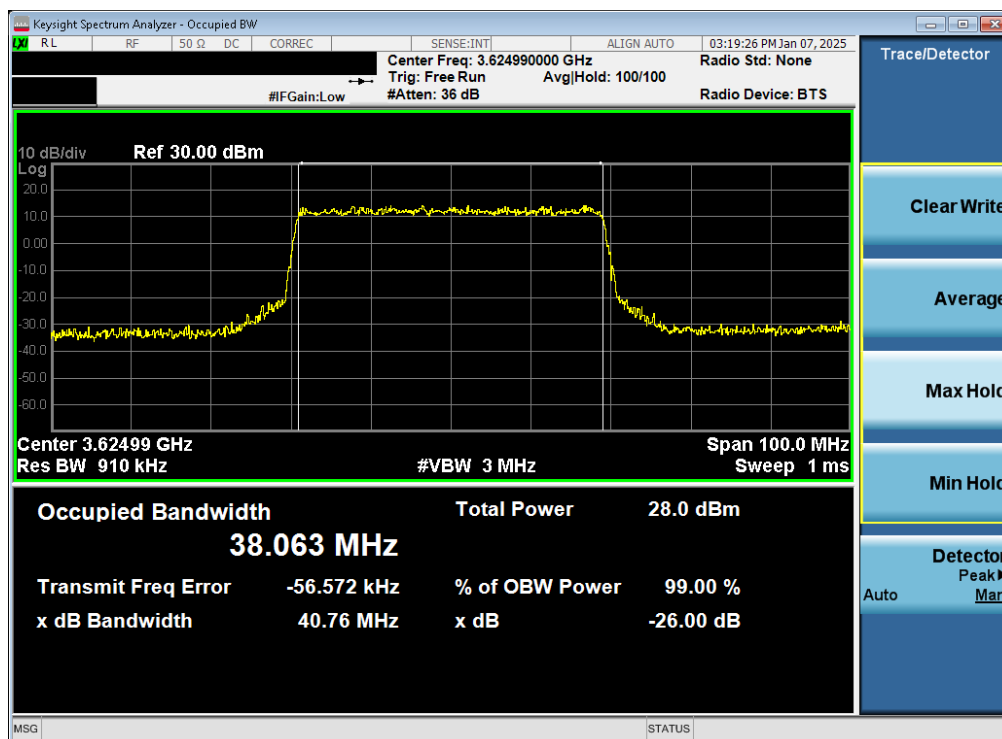
Table 7-15. Occupied Bandwidth Test Results – UL MIMO Ant1

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 50 of 146                    |

## NR Band n48 – SRS Ant3

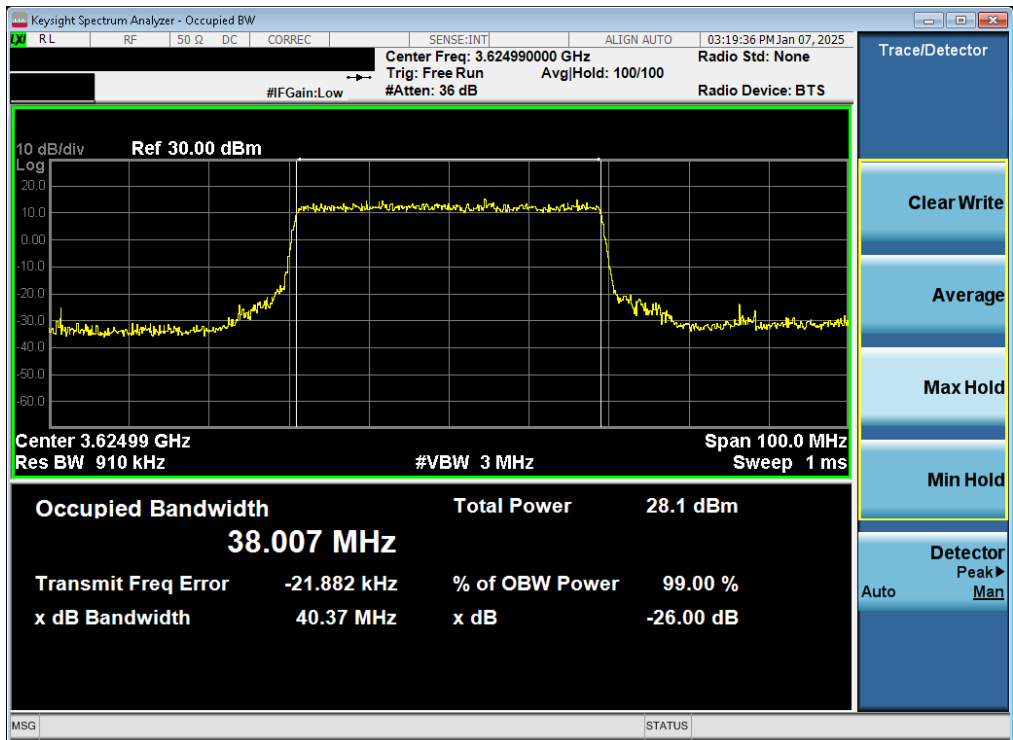


Plot 7-55. Occupied Bandwidth Plot (NR Band n48 - 40MHz  $\pi/2$  BPSK - Full RB Configuration – SRS Ant3)



Plot 7-56. Occupied Bandwidth Plot (NR Band n48 - 40MHz QPSK - Full RB Configuration – SRS Ant3)

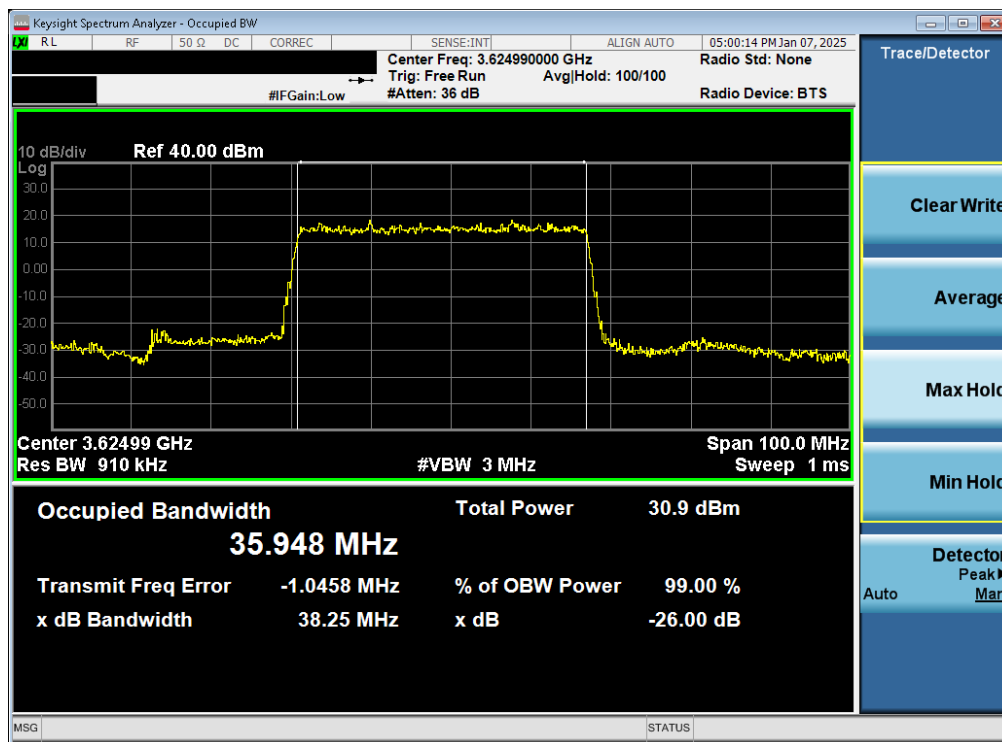
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 51 of 146                    |



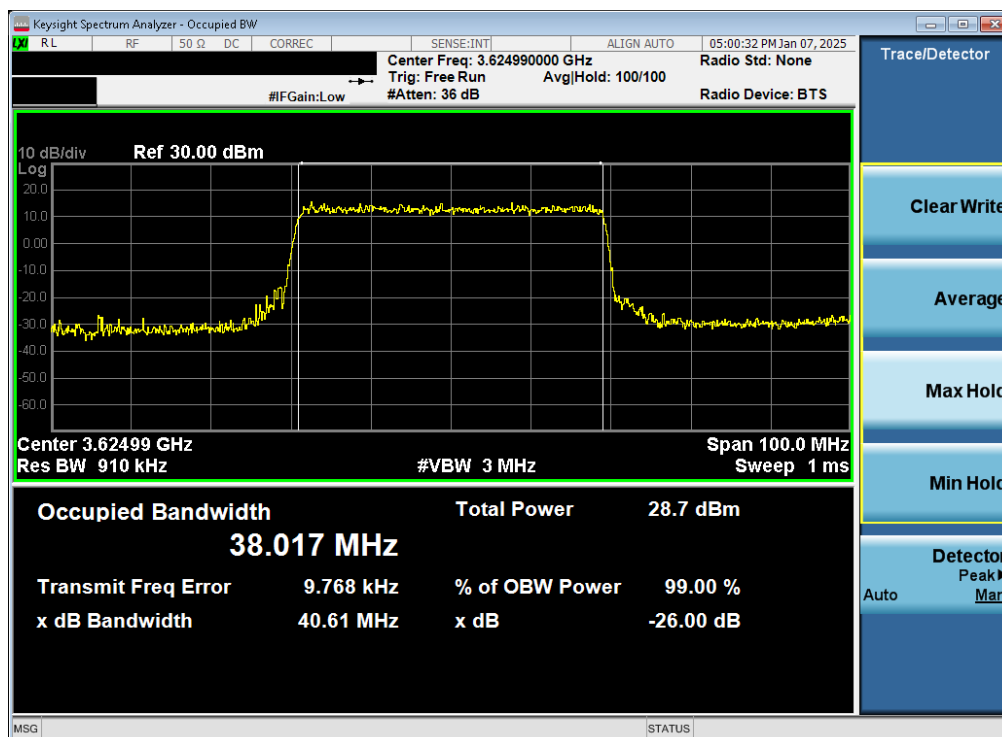
Plot 7-57. Occupied Bandwidth Plot (NR Band n48 - 40MHz 16-QAM - Full RB Configuration – SRS Ant3)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 52 of 146                    |

## NR Band n48 – SRS Ant4

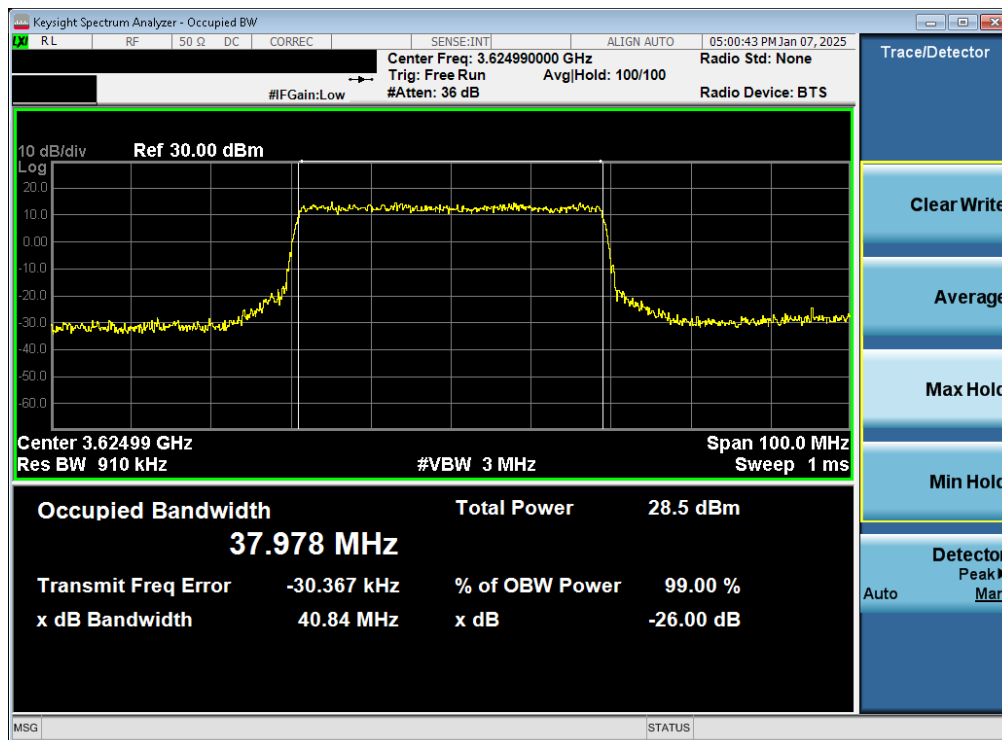


Plot 7-58. Occupied Bandwidth Plot (NR Band n48 - 40MHz  $\pi/2$  BPSK - Full RB Configuration – SRS Ant4)



Plot 7-59. Occupied Bandwidth Plot (NR Band n48 - 40MHz QPSK - Full RB Configuration – SRS Ant4)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 53 of 146                    |



Plot 7-60. Occupied Bandwidth Plot (NR Band n48 - 40MHz 16-QAM - Full RB Configuration – SRS Ant4)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 54 of 146                    |

## NR Band n48 – UL MIMO Ant6



Plot 7-61. Occupied Bandwidth Plot (NR Band n48 - 40MHz  $\pi/2$  BPSK - Full RB Configuration – UL MIMO Ant6)



Plot 7-62. Occupied Bandwidth Plot (NR Band n48 - 40MHz QPSK - Full RB Configuration – UL MIMO Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 55 of 146                    |



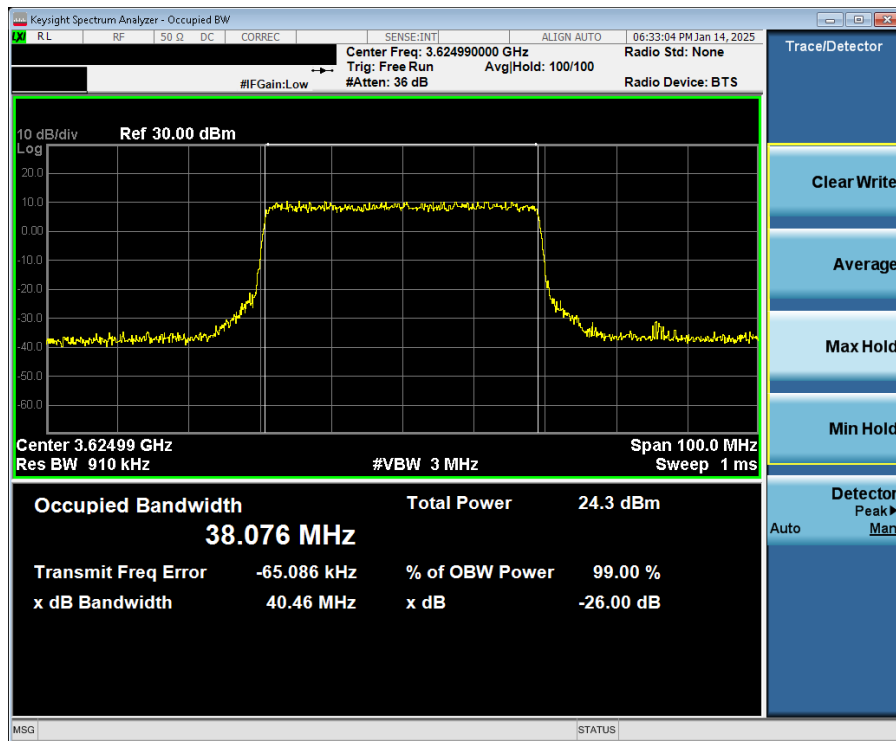
Plot 7-63. Occupied Bandwidth Plot (NR Band n48 - 40MHz 16-QAM - Full RB Configuration – UL MIMO Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 56 of 146                    |

## NR Band n48 – UL MIMO Ant1

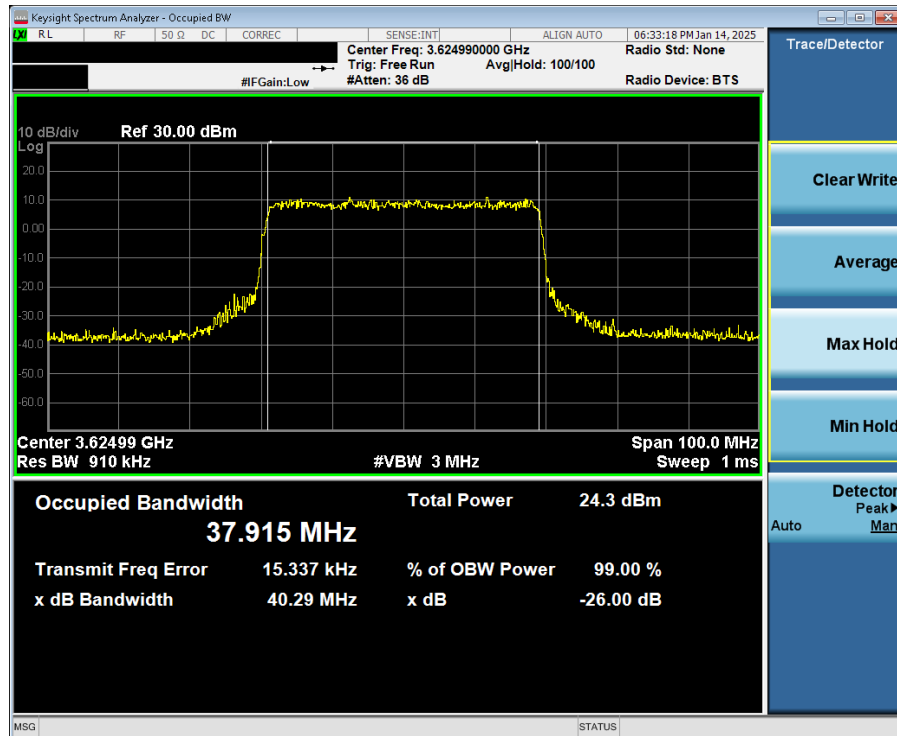


Plot 7-64. Occupied Bandwidth Plot (NR Band n48 - 40MHz  $\pi/2$  BPSK - Full RB Configuration – UL MIMO Ant1)



Plot 7-65. Occupied Bandwidth Plot (NR Band n48 - 40MHz QPSK - Full RB Configuration – UL MIMO Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 57 of 146                    |



Plot 7-66. Occupied Bandwidth Plot (NR Band n48 - 40MHz 16-QAM - Full RB Configuration – UL MIMO Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 58 of 146                    |

## 7.4 Spurious and Harmonic Emissions at Antenna Terminal

### 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 10<sup>th</sup> 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.

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

### Test Procedure Used

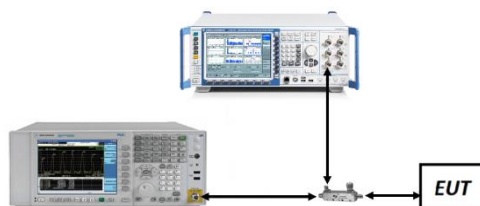
ANSI C63.26-2015 – Section 5.7.4

### 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)
2. 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 7-3. Test Instrument & Measurement Setup**

### Test Notes

1. Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) 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.
3. Per ANSI C63.26-2015, MIMO compliance was addressed by adding  $10\log(2) = 3\text{dB}$  to the output of each antenna. A visual inspection of the plots for each antenna shows that the emissions are still compliant even after adding 3dB.

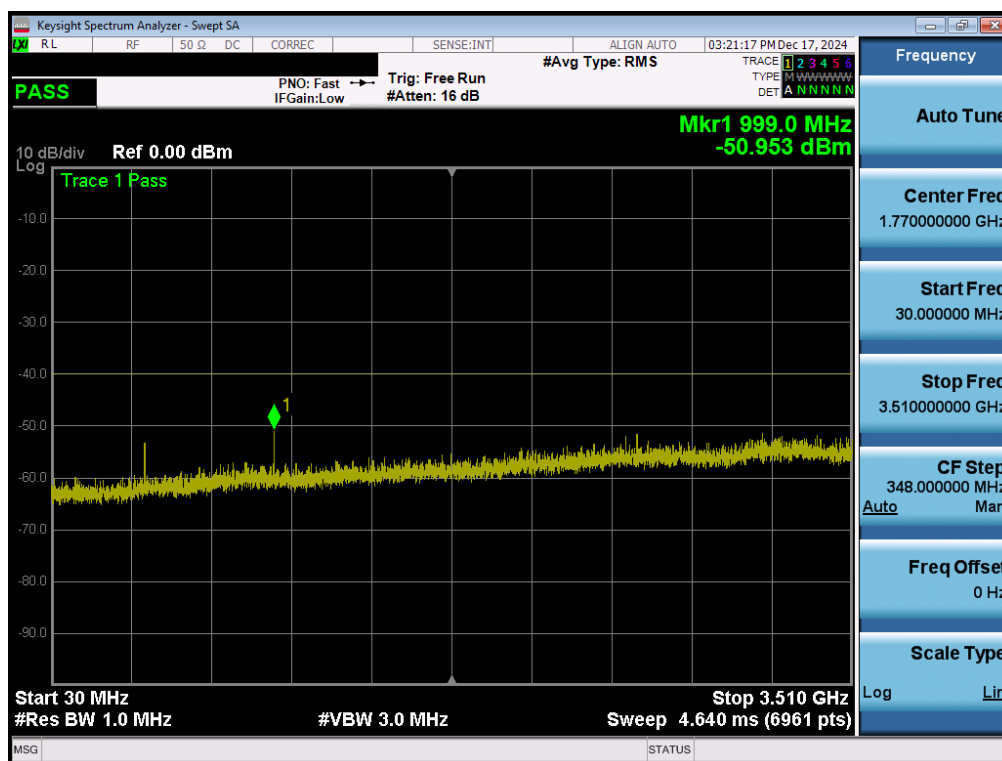
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 59 of 146                    |

| Mode             | Bandwidth | Channel | Range [MHz]       | Level [dBm] | Limit [dBm] | Margin [dB] |
|------------------|-----------|---------|-------------------|-------------|-------------|-------------|
| LTE-B48          | 20MHz     | Low     | 30.0 - 3510.0     | -50.95      | -40.0       | -10.95      |
|                  |           | Low     | 3610.0 - 15000.0  | -42.38      | -40.0       | -2.38       |
|                  |           | Low     | 15000.0 - 27000.0 | -42.33      | -40.0       | -2.33       |
|                  |           | Low     | 27000.0 - 37000.0 | -43.59      | -40.0       | -3.59       |
|                  |           | Mid     | 30.0 - 35750.0    | -51.2       | -40.0       | -11.20      |
|                  |           | Mid     | 3675.0 - 15000.0  | -42.9       | -40.0       | -2.90       |
|                  |           | Mid     | 15000.0 - 27000.0 | -46.55      | -40.0       | -6.55       |
|                  |           | Mid     | 27000.0 - 39000.0 | -45.88      | -40.0       | -5.88       |
|                  |           | High    | 30.0 - 3640.0     | -51.92      | -40.0       | -11.92      |
|                  |           | High    | 3740.0 - 15000.0  | -42.39      | -40.0       | -2.39       |
|                  |           | High    | 15000.0 - 27000.0 | -46.82      | -40.0       | -6.82       |
|                  |           | High    | 27000.0 - 39000.0 | -45.75      | -40.0       | -5.75       |
| LTE Band 48 ULCA | 20+20MHz  | Low     | 30.0 - 3510.0     | -49.86      | -40.0       | -9.86       |
|                  |           | Low     | 3540.0 - 3630.0   | -34.17      | -           | -           |
|                  |           | Low     | 3610.0 - 15000.0  | -43.3       | -40.0       | -3.30       |
|                  |           | Low     | 15000.0 - 27000.0 | -42.86      | -40.0       | -2.86       |
|                  |           | Low     | 27000.0 - 37000.0 | -44.6       | -40.0       | -4.60       |
|                  |           | Mid     | 30.0 - 3575.0     | -50.62      | -40.0       | -10.62      |
|                  |           | Mid     | 3575.0 - 3720.0   | -34.94      | -           | -           |
|                  |           | Mid     | 3675.0 - 15000.0  | -41.58      | -40.0       | -1.58       |
|                  |           | Mid     | 15000.0 - 27000.0 | -46.08      | -40.0       | -6.08       |
|                  |           | Mid     | 27000.0 - 37000.0 | -43.44      | -40.0       | -3.44       |
|                  |           | High    | 30.0 - 3620.0     | -51.81      | -40.0       | -11.81      |
|                  |           | High    | 3620.0 - 3710.0   | -34.92      | -           | -           |
|                  |           | High    | 3740.0 - 15000.0  | -41.47      | -40.0       | -1.47       |
|                  |           | High    | 15000.0 - 27000.0 | -46.65      | -40.0       | -6.65       |
|                  |           | High    | 27000.0 - 37000.0 | -47.32      | -40.0       | -7.32       |
| NR-n48           | 40MHz     | Low     | 30.0 - 3510.0     | -48.98      | -40.0       | -8.98       |
|                  |           | Low     | 3610.0 - 15000.0  | -44.22      | -40.0       | -4.22       |
|                  |           | Low     | 15000.0 - 27000.0 | -52.09      | -40.0       | -12.09      |
|                  |           | Low     | 27000.0 - 37000.0 | -46.45      | -40.0       | -6.45       |
|                  |           | Mid     | 30.0 - 35750.0    | -47.44      | -40.0       | -7.44       |
|                  |           | Mid     | 3675.0 - 15000.0  | -42.46      | -40.0       | -2.46       |
|                  |           | Mid     | 15000.0 - 27000.0 | -50.09      | -40.0       | -10.09      |
|                  |           | Mid     | 27000.0 - 39000.0 | -46.87      | -40.0       | -6.87       |
|                  |           | High    | 30.0 - 3640.0     | -51.79      | -40.0       | -11.79      |
|                  |           | High    | 3740.0 - 15000.0  | -43.45      | -40.0       | -3.45       |
|                  |           | High    | 15000.0 - 27000.0 | -51.7       | -40.0       | -11.70      |
|                  |           | High    | 27000.0 - 39000.0 | -47.85      | -40.0       | -7.85       |

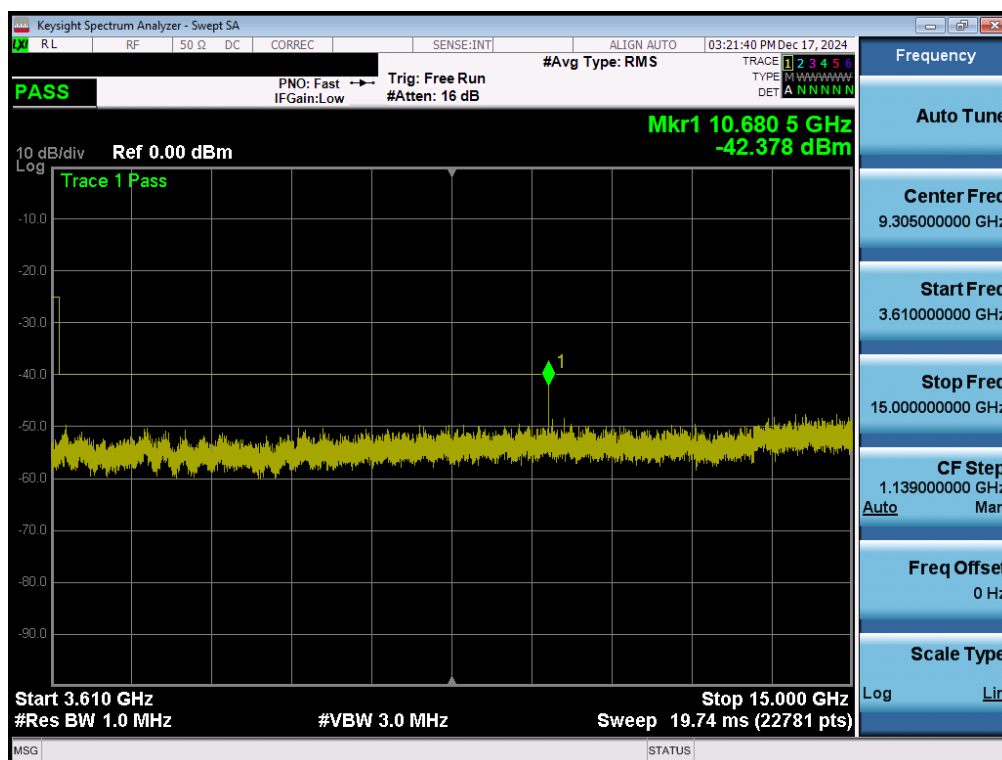
**Table 7-16. Conducted Spurious Emission Test Results – Ant6**

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 60 of 146                    |

## LTE Band 48 – Ant6

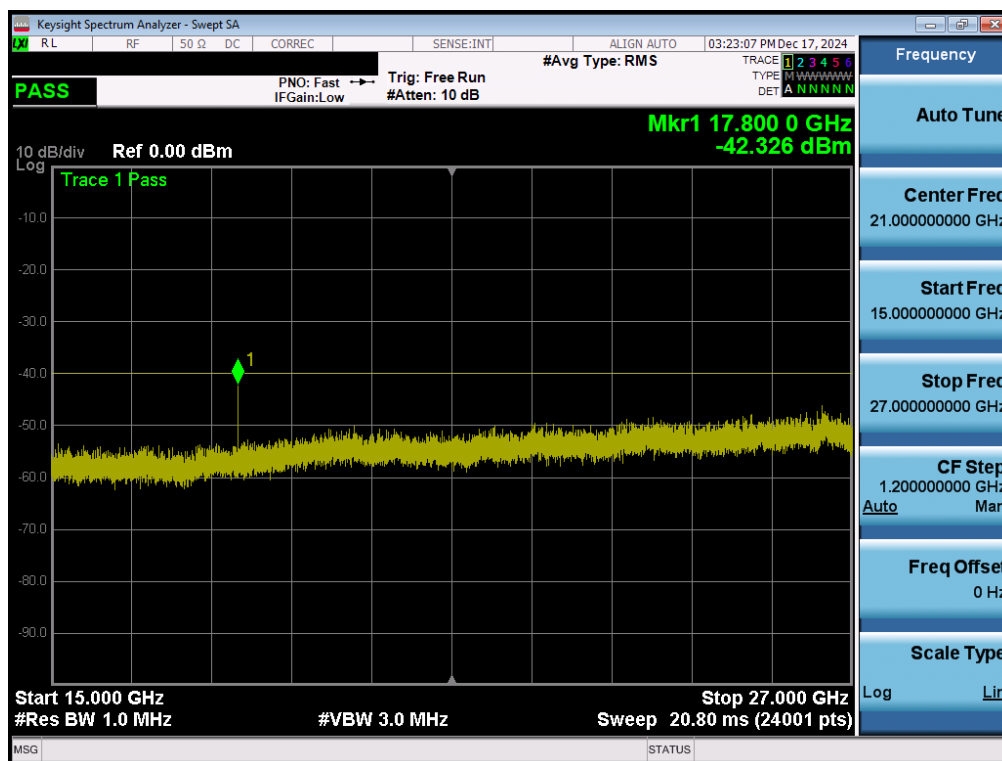


Plot 7-67. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Low Channel - Ant6)

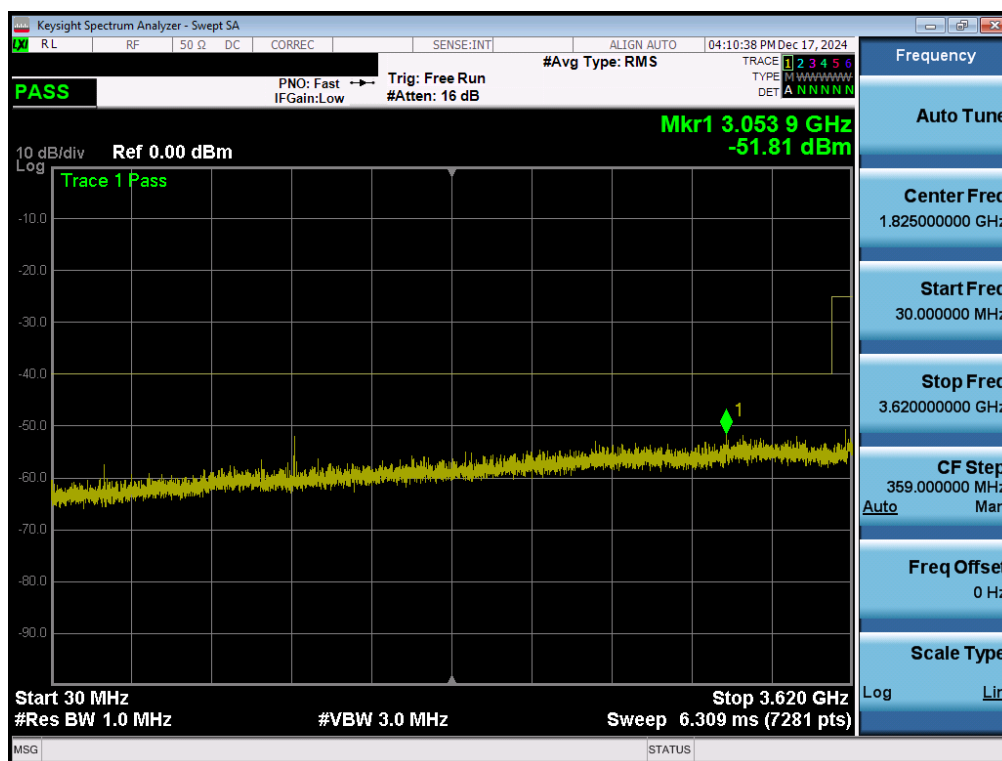


Plot 7-68. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Low Channel - Ant6)

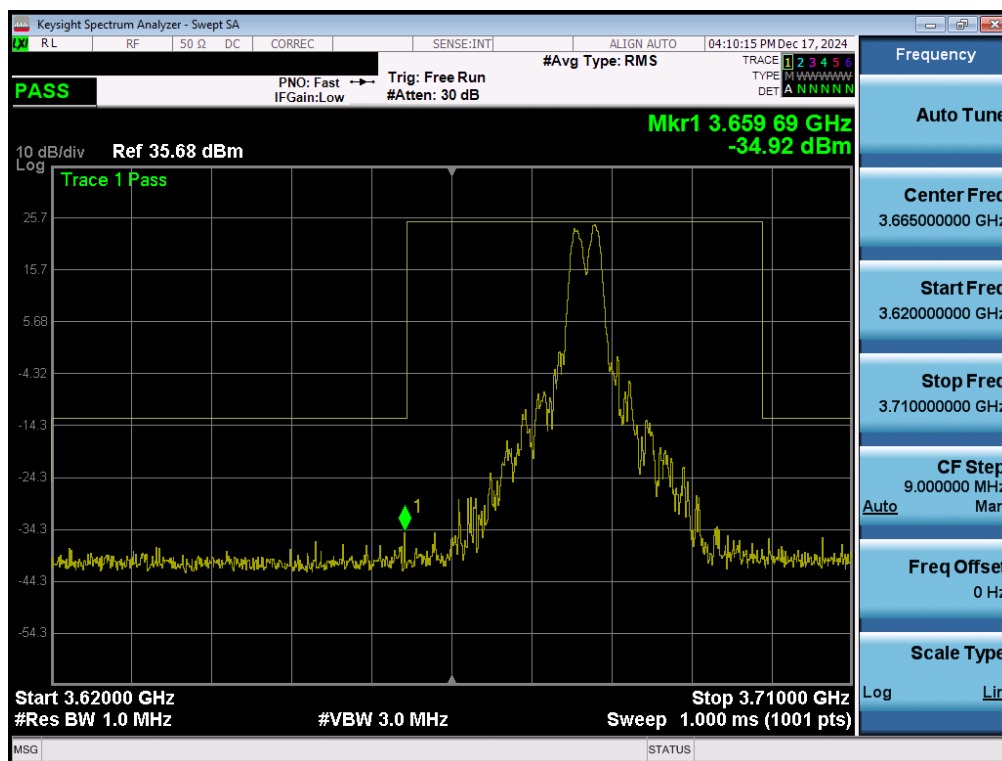
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 61 of 146                    |



## ULCA LB48 – Ant6

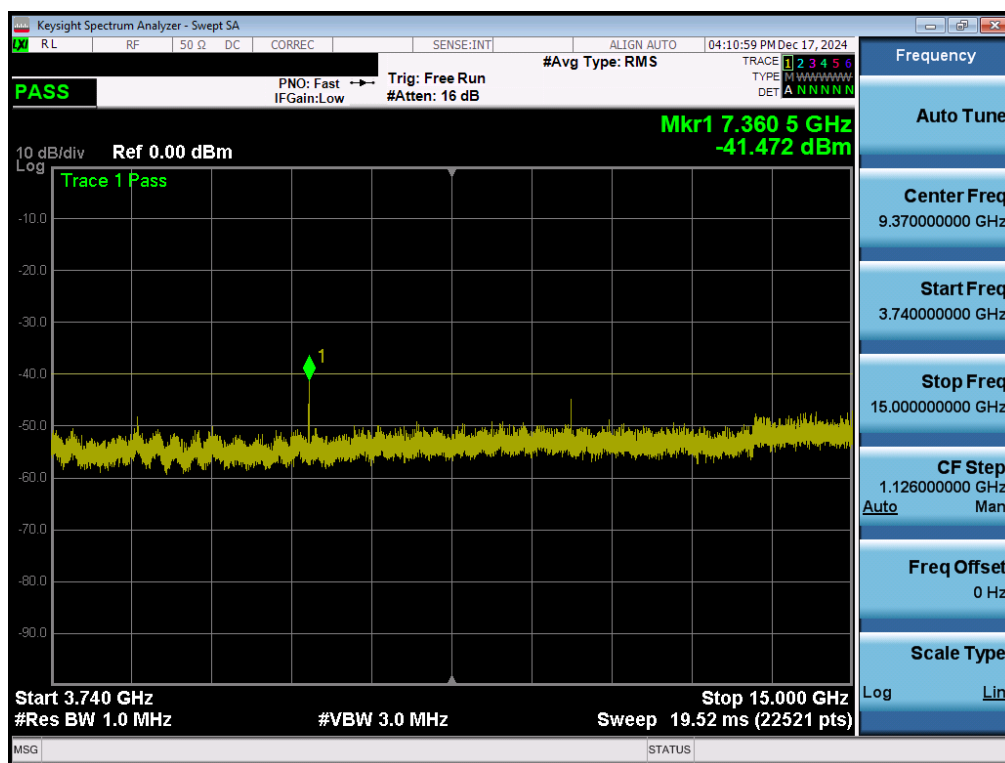


Plot 7-71. Conducted Spurious Plot (ULCA LB48 - 20+20MHz QPSK - High Channel - Ant6)

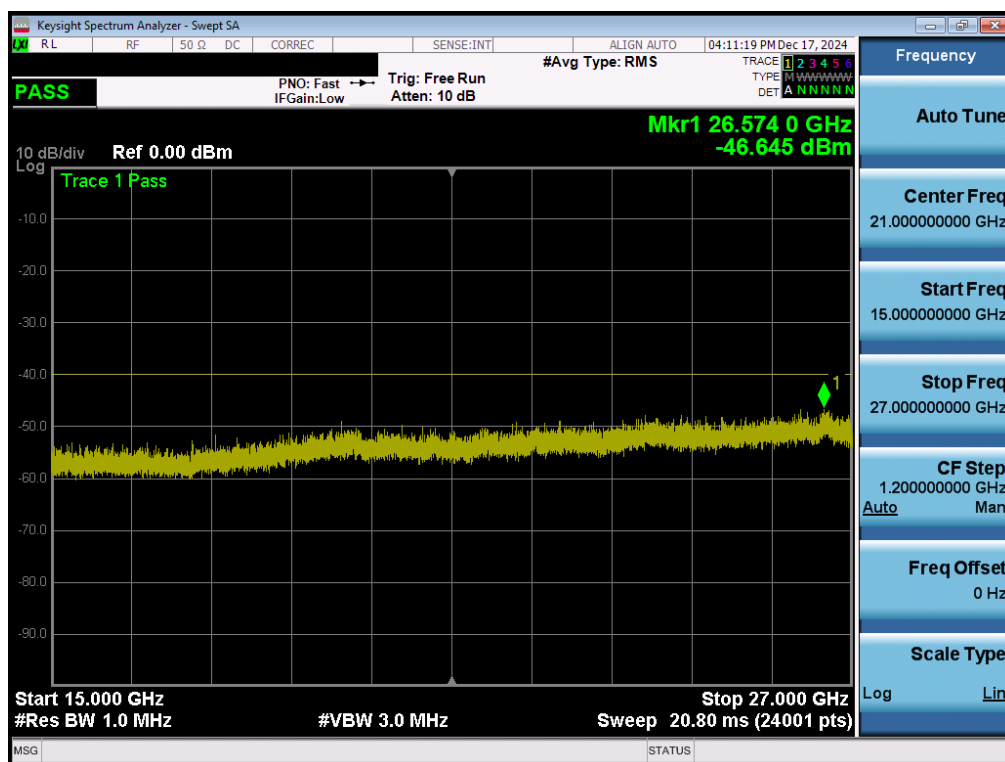


Plot 7-72. Conducted Spurious Plot (ULCA LB48 - 20+20MHz QPSK - High Channel - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 63 of 146                    |

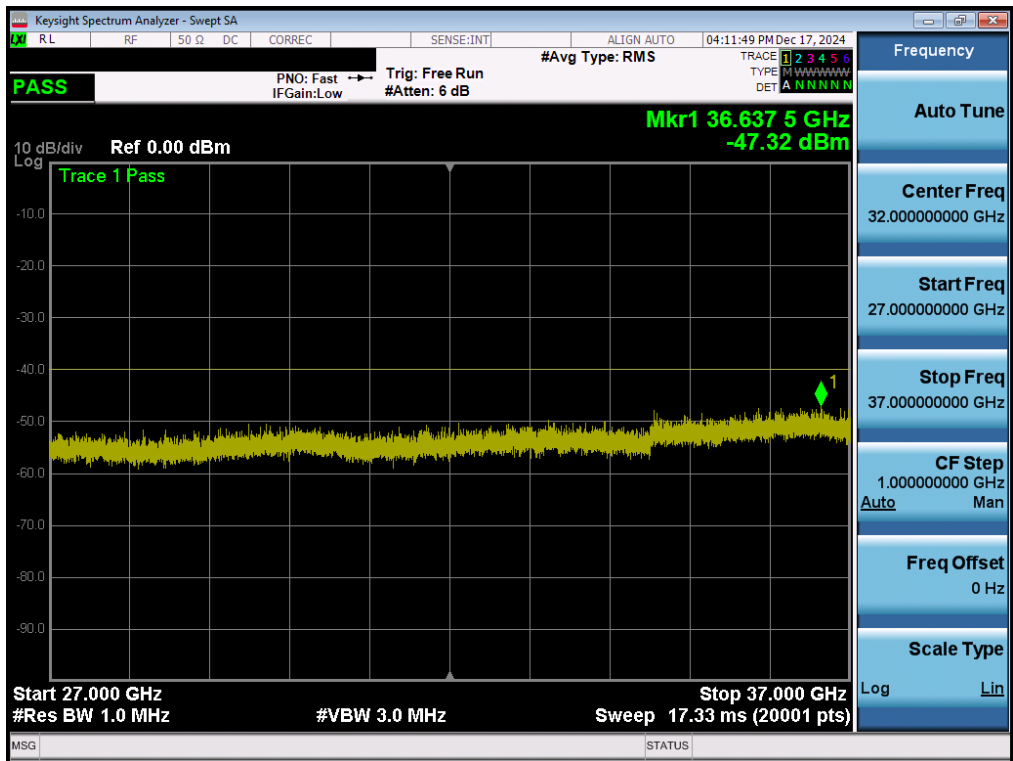


Plot 7-73. Conducted Spurious Plot (ULCA LB48 - 20+20MHz QPSK - High Channel - Ant6)



**Plot 7-74. Conducted Spurious Plot (ULCA LB48 - 20+20MHz OPSK - High Channel - Ant6)**

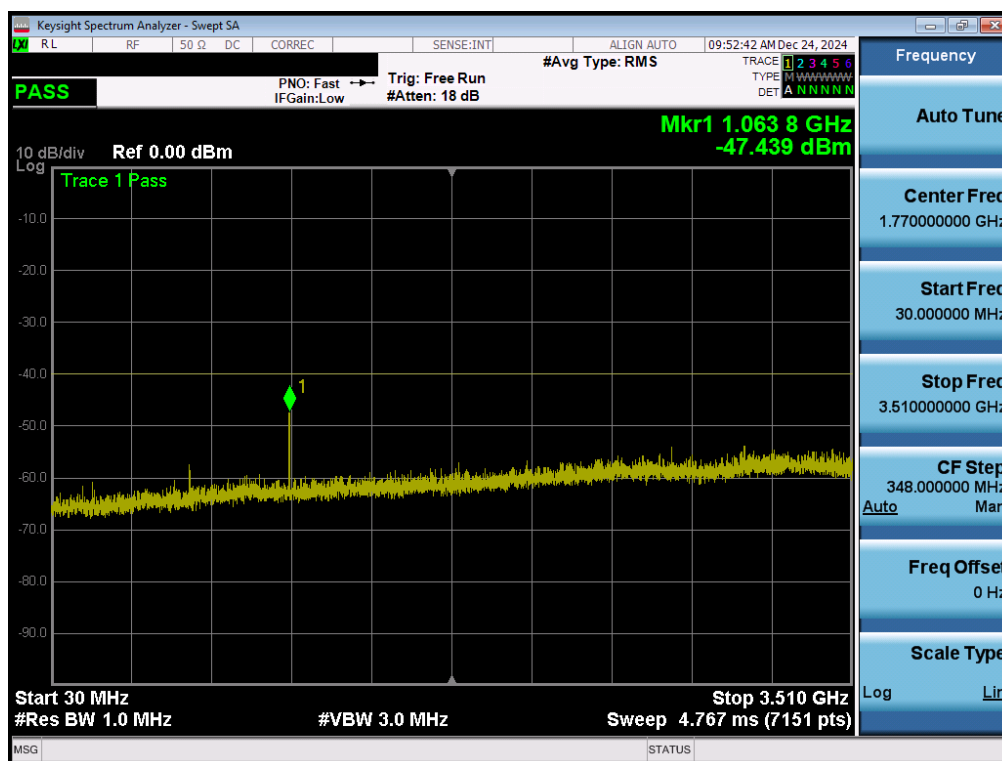
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 64 of 146                    |



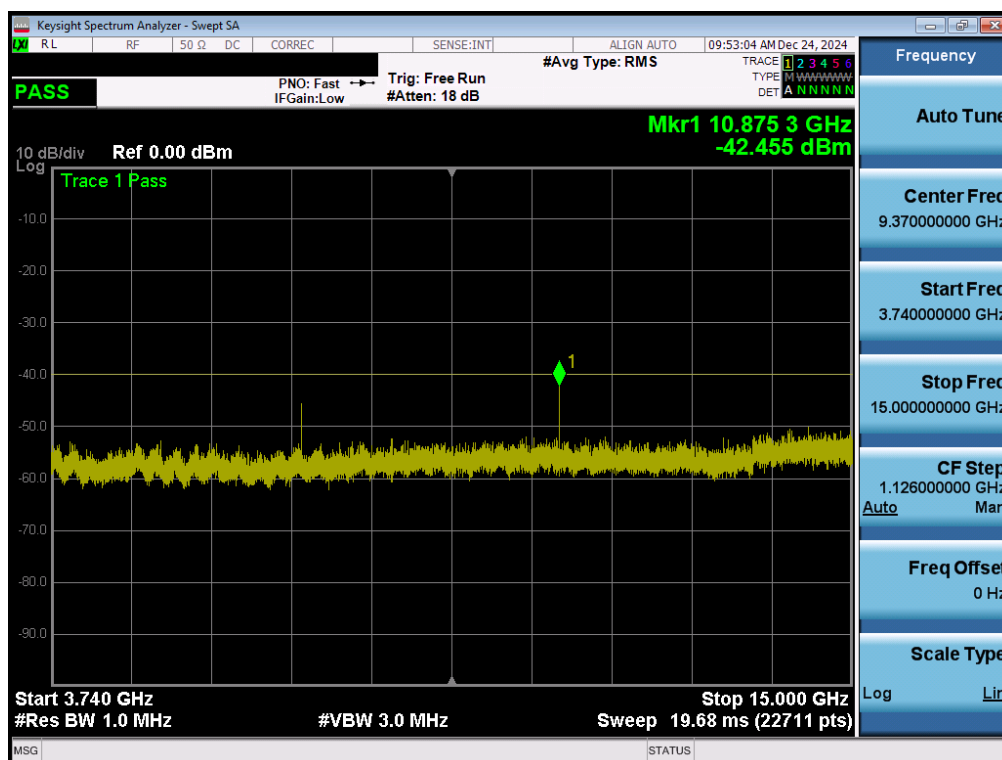
Plot 7-75. Conducted Spurious Plot (ULCA LB48 - 20+20MHz QPSK - High Channel - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 65 of 146                    |

## NR Band n48 – Ant6

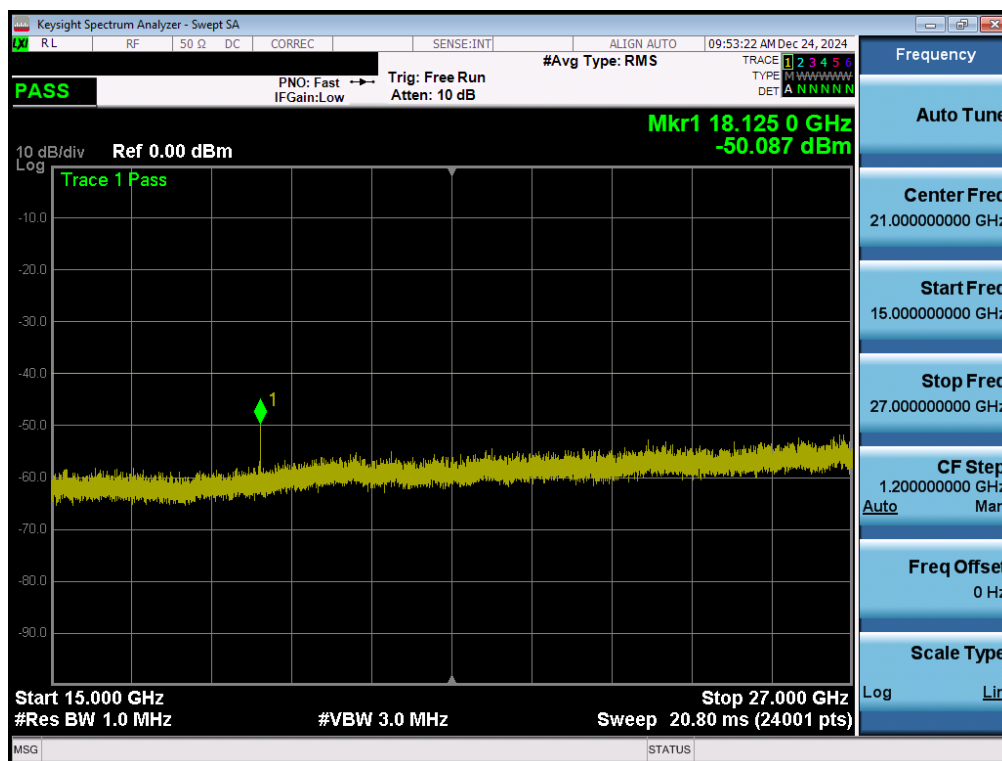


Plot 7-76. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant6)

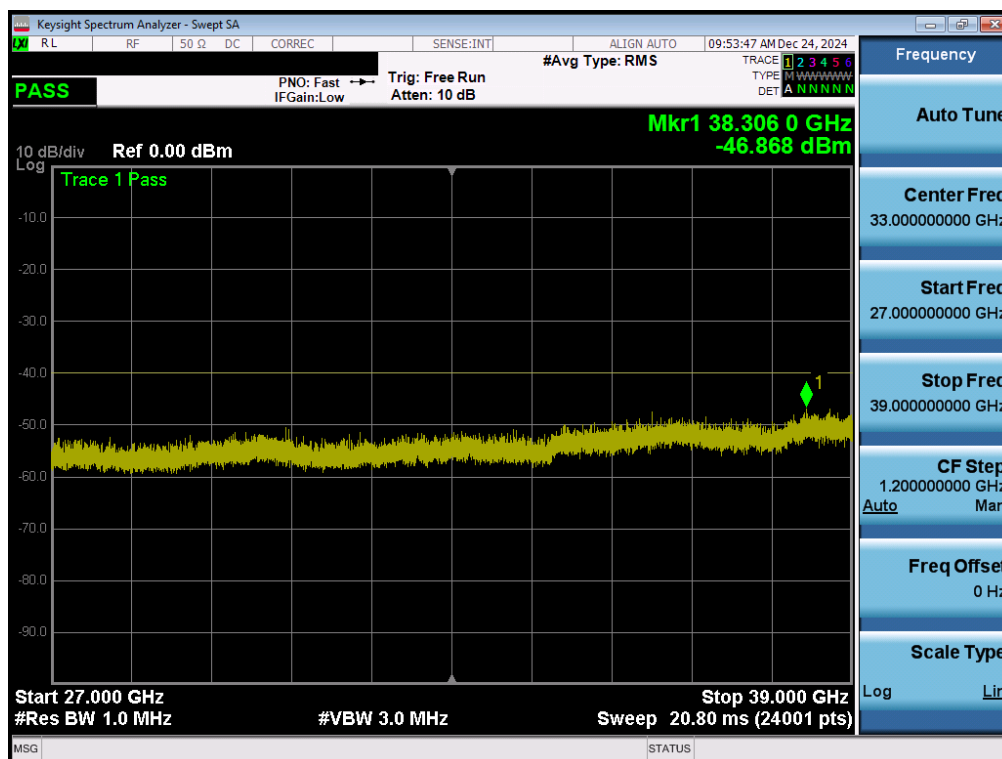


Plot 7-77. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 66 of 146                    |



Plot 7-78. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant6)



Plot 7-79. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant6)

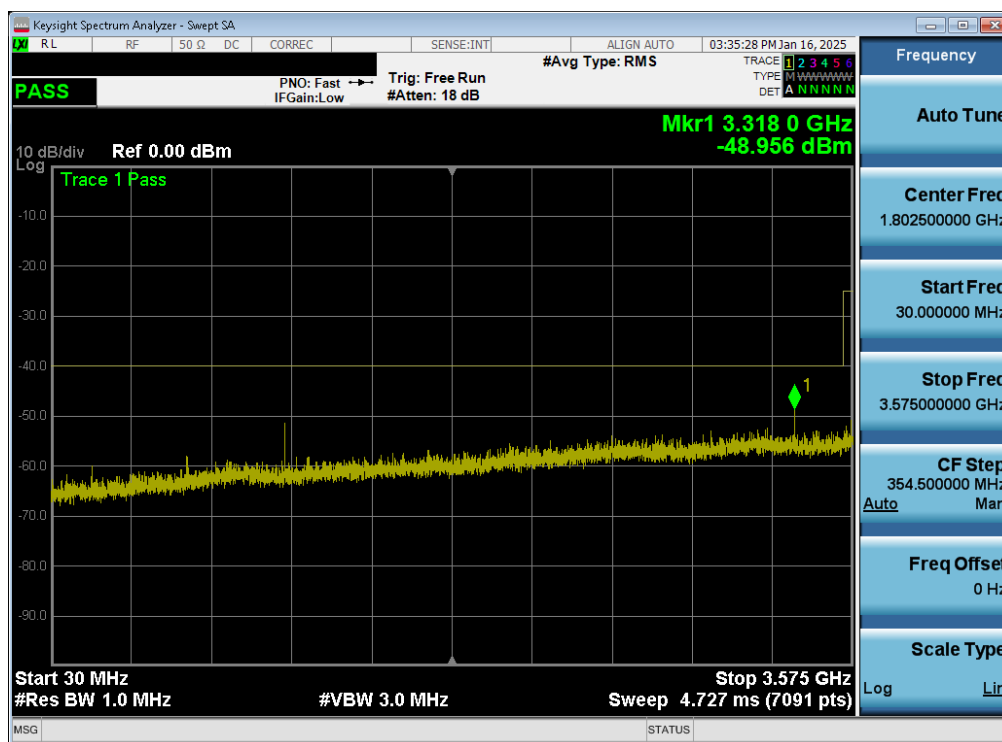
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 67 of 146                    |

| Mode    | Bandwidth | Channel | Range [MHz]       | Level [dBm] | Limit [dBm] | Margin [dB] |
|---------|-----------|---------|-------------------|-------------|-------------|-------------|
| LTE-B48 | 20MHz     | Low     | 30.0 - 3510.0     | -51.58      | -40.0       | -11.58      |
|         |           | Low     | 3610.0 - 15000.0  | -41.66      | -40.0       | -1.66       |
|         |           | Low     | 15000.0 - 27000.0 | -43.68      | -40.0       | -3.68       |
|         |           | Low     | 27000.0 - 37000.0 | -42.3       | -40.0       | -2.30       |
|         |           | Mid     | 30.0 - 35750.0    | -48.96      | -40.0       | -8.96       |
|         |           | Mid     | 3675.0 - 15000.0  | -42.46      | -40.0       | -2.46       |
|         |           | Mid     | 15000.0 - 27000.0 | -41.58      | -40.0       | -1.58       |
|         |           | Mid     | 27000.0 - 39000.0 | -42.49      | -40.0       | -2.49       |
|         |           | High    | 30.0 - 3640.0     | -50.52      | -40.0       | -10.52      |
|         |           | High    | 3740.0 - 15000.0  | -42.08      | -40.0       | -2.08       |
|         |           | High    | 15000.0 - 27000.0 | -43.76      | -40.0       | -3.76       |
|         |           | High    | 27000.0 - 37000.0 | -42.49      | -40.0       | -2.49       |
| NR-n48  | 40MHz     | Low     | 30.0 - 3510.0     | -49.51      | -40.0       | -9.51       |
|         |           | Low     | 3610.0 - 15000.0  | -41.34      | -40.0       | -1.34       |
|         |           | Low     | 15000.0 - 27000.0 | -46.13      | -40.0       | -6.13       |
|         |           | Low     | 27000.0 - 37000.0 | -43.54      | -40.0       | -3.54       |
|         |           | Mid     | 30.0 - 35750.0    | -50.59      | -40.0       | -10.59      |
|         |           | Mid     | 3675.0 - 15000.0  | -41.82      | -40.0       | -1.82       |
|         |           | Mid     | 15000.0 - 27000.0 | -43.69      | -40.0       | -3.69       |
|         |           | Mid     | 27000.0 - 39000.0 | -43.91      | -40.0       | -3.91       |
|         |           | High    | 30.0 - 3640.0     | -50.02      | -40.0       | -10.02      |
|         |           | High    | 3740.0 - 15000.0  | -42.47      | -40.0       | -2.47       |
|         |           | High    | 15000.0 - 27000.0 | -44.86      | -40.0       | -4.86       |
|         |           | High    | 27000.0 - 39000.0 | -43.82      | -40.0       | -3.82       |

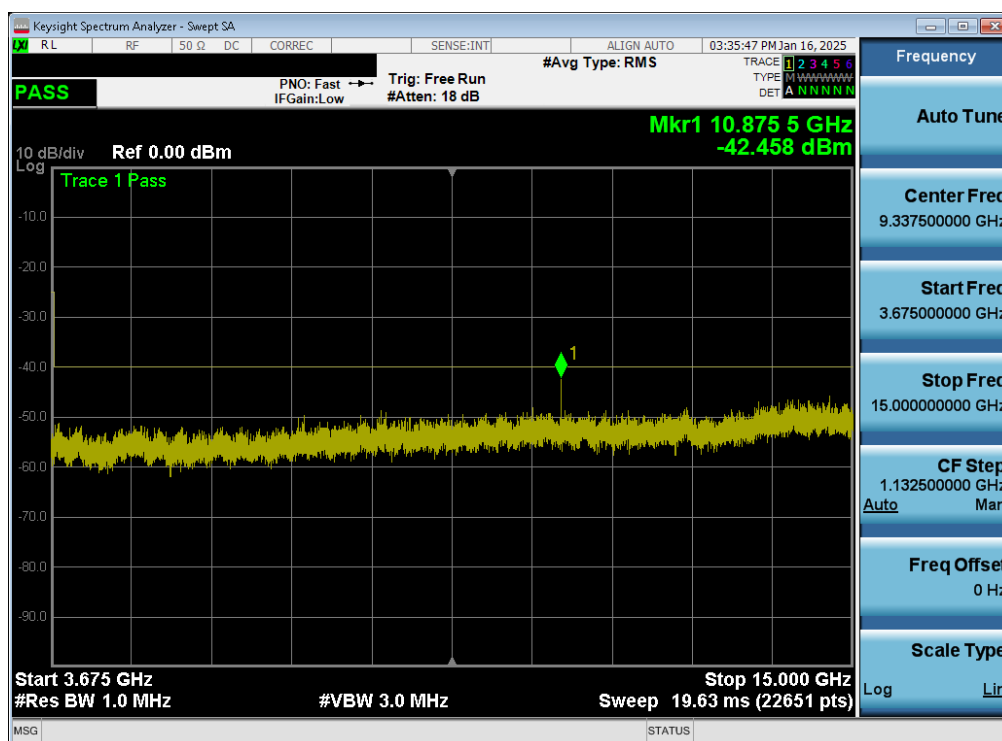
Table 7-17. Conducted Spurious Emission Test Results – Ant1

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 68 of 146                    |

## LTE Band 48 – Ant1

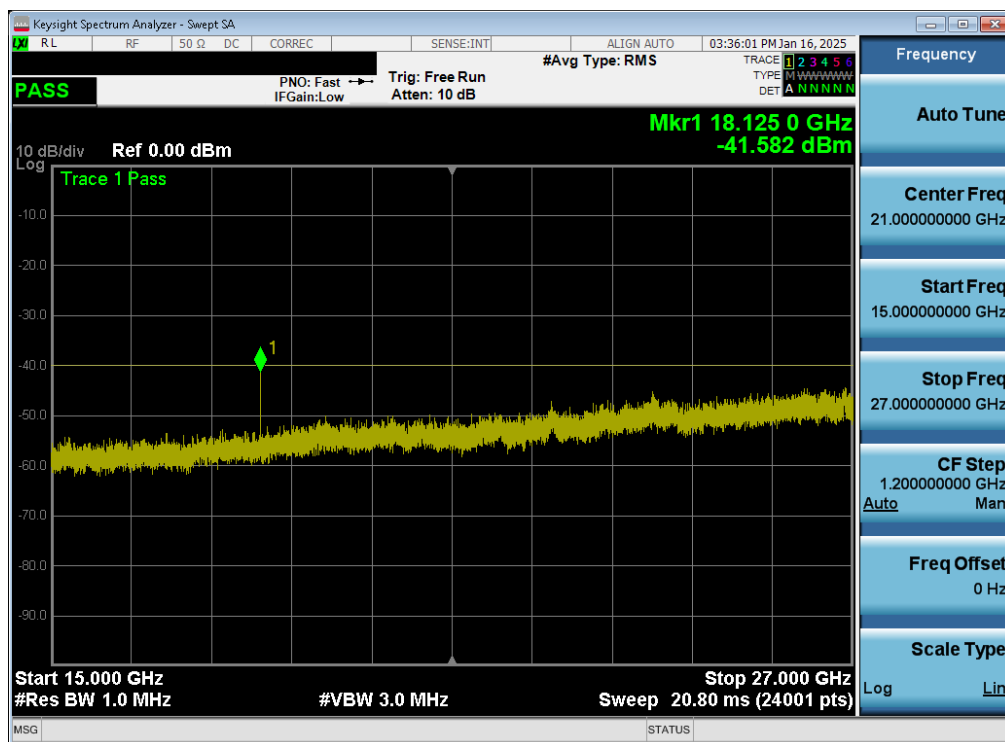


Plot 7-80. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Mid Channel - Ant1)

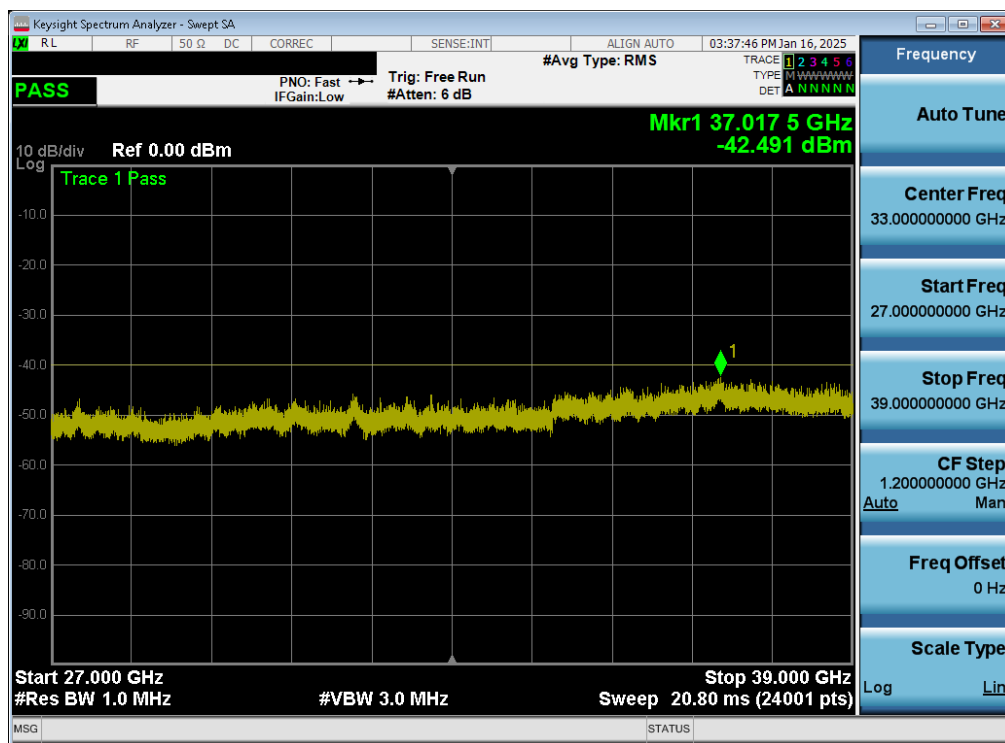


Plot 7-81. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Mid Channel - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 69 of 146                    |



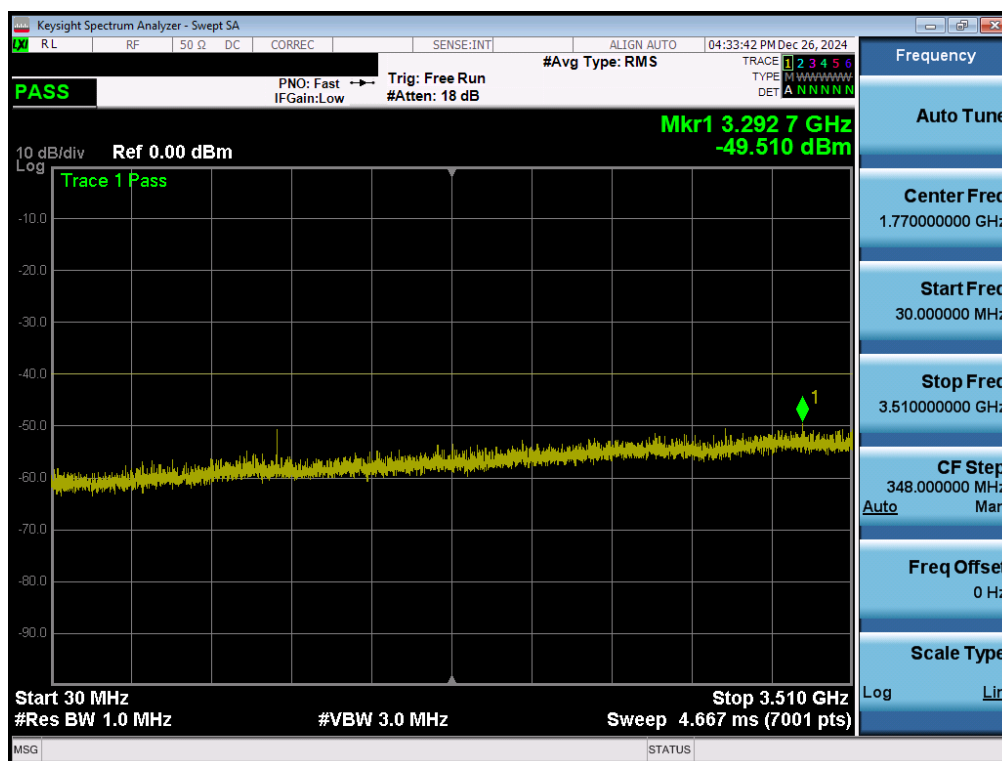
Plot 7-82. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Mid Channel - Ant1)



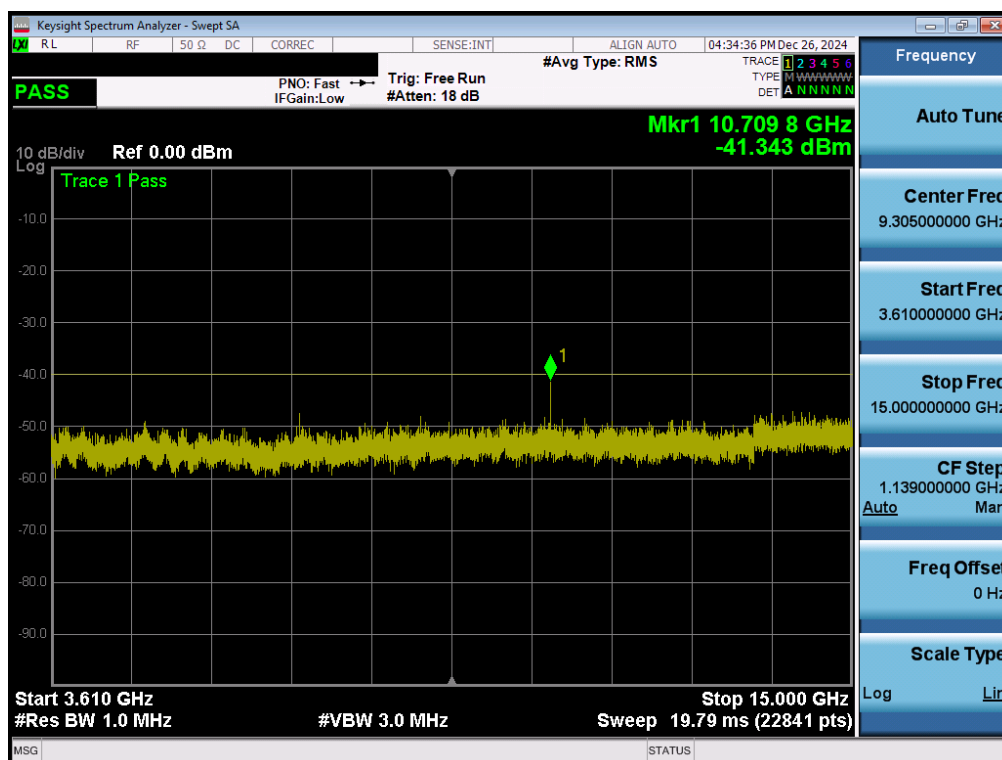
Plot 7-83. Conducted Spurious Plot (LTE Band 48 - 20MHz QPSK - Mid Channel - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 70 of 146                    |

## NR Band n48 – Ant1

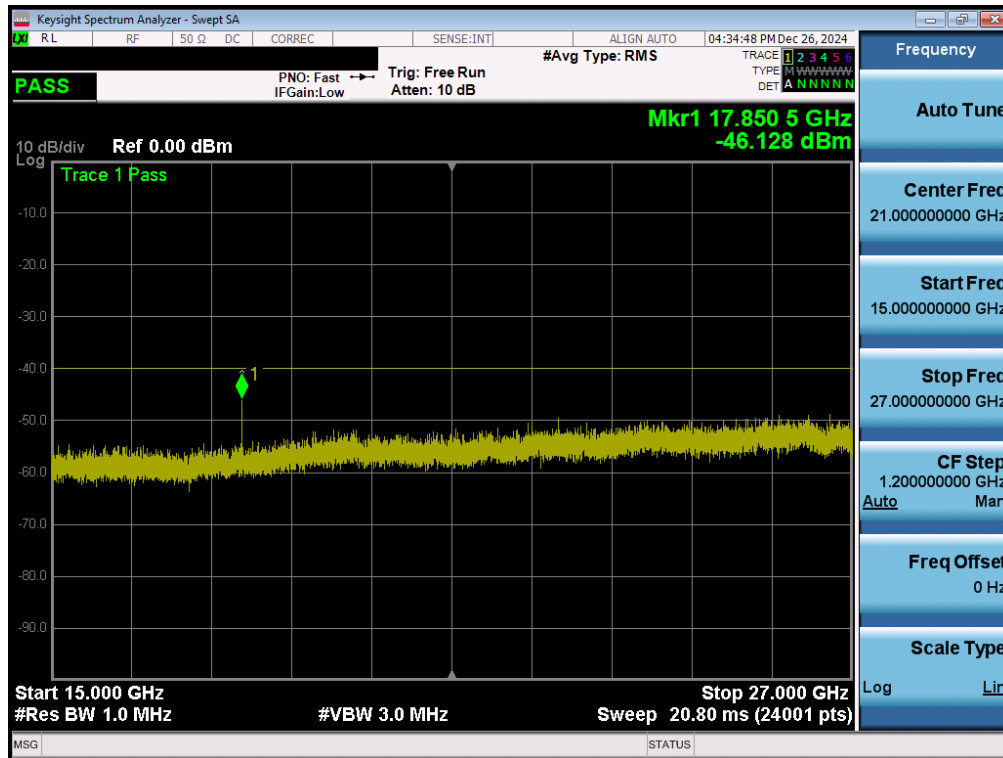


Plot 7-84. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant1)

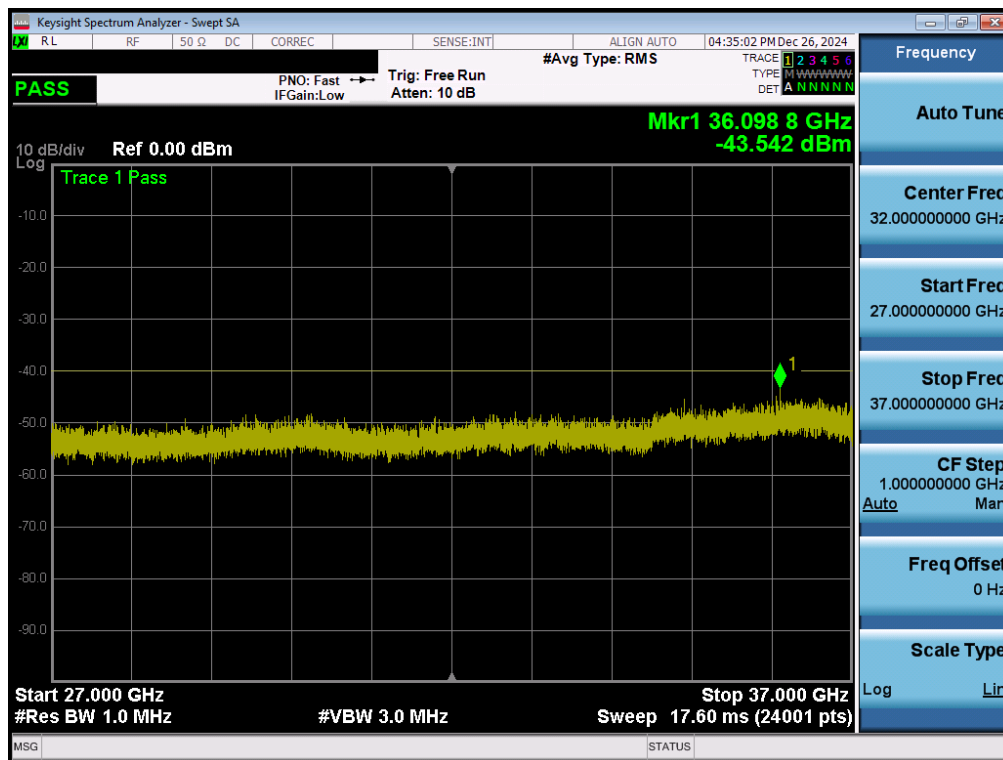


Plot 7-85. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 71 of 146                    |



Plot 7-86. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant1)



Plot 7-87. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 72 of 146                    |

| Mode   | Bandwidth | Channel | Range [MHz]       | Level [dBm] | Limit [dBm] | Margin [dB] |
|--------|-----------|---------|-------------------|-------------|-------------|-------------|
| NR-n48 | 40MHz     | Low     | 30.0 - 3510.0     | -49.48      | -40.0       | -9.48       |
|        |           | Low     | 3610.0 - 15000.0  | -47.23      | -40.0       | -7.23       |
|        |           | Low     | 15000.0 - 27000.0 | -49.78      | -40.0       | -9.78       |
|        |           | Low     | 27000.0 - 37000.0 | -45.6       | -40.0       | -5.60       |
|        |           | Mid     | 30.0 - 35750.0    | -50.47      | -40.0       | -10.47      |
|        |           | Mid     | 3675.0 - 15000.0  | -47.11      | -40.0       | -7.11       |
|        |           | Mid     | 15000.0 - 27000.0 | -50.56      | -40.0       | -10.56      |
|        |           | Mid     | 27000.0 - 39000.0 | -45.85      | -40.0       | -5.85       |
|        |           | High    | 30.0 - 3640.0     | -51.77      | -40.0       | -11.77      |
|        |           | High    | 3740.0 - 15000.0  | -44.34      | -40.0       | -4.34       |
|        |           | High    | 15000.0 - 27000.0 | -51.02      | -40.0       | -11.02      |
|        |           | High    | 27000.0 - 39000.0 | -45.61      | -40.0       | -5.61       |

Table 7-18. Conducted Spurious Emission Test Results– SRS Ant3

| Mode   | Bandwidth | Channel | Range [MHz]       | Level [dBm] | Limit [dBm] | Margin [dB] |
|--------|-----------|---------|-------------------|-------------|-------------|-------------|
| NR-n48 | 40MHz     | Low     | 30.0 - 3510.0     | -47.65      | -40.0       | -7.65       |
|        |           | Low     | 3610.0 - 15000.0  | -45.35      | -40.0       | -5.35       |
|        |           | Low     | 15000.0 - 27000.0 | -50.93      | -40.0       | -10.93      |
|        |           | Low     | 27000.0 - 37000.0 | -44.87      | -40.0       | -4.87       |
|        |           | Mid     | 30.0 - 35750.0    | -48.84      | -40.0       | -8.84       |
|        |           | Mid     | 3675.0 - 15000.0  | -47.21      | -40.0       | -7.21       |
|        |           | Mid     | 15000.0 - 27000.0 | -50.64      | -40.0       | -10.63      |
|        |           | Mid     | 27000.0 - 39000.0 | -45.87      | -40.0       | -5.87       |
|        |           | High    | 30.0 - 3640.0     | -50.97      | -40.0       | -10.97      |
|        |           | High    | 3740.0 - 15000.0  | -43.69      | -40.0       | -3.69       |
|        |           | High    | 15000.0 - 27000.0 | -50.71      | -40.0       | -10.71      |
|        |           | High    | 27000.0 - 39000.0 | -45.51      | -40.0       | -5.51       |

Table 7-19. Conducted Spurious Emission Test Results– SRS Ant4

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 73 of 146                    |

| Mode           | Bandwidth | Channel | Range [MHz]       | Level [dBm] | Limit [dBm] | Margin [dB] |
|----------------|-----------|---------|-------------------|-------------|-------------|-------------|
| UL MIMO NR-n48 | 40MHz     | Low     | 30.0 - 3510.0     | -50.12      | -40.0       | -10.12      |
|                |           | Low     | 3610.0 - 15000.0  | -40.94      | -40.0       | -0.94       |
|                |           | Low     | 15000.0 - 27000.0 | -43.07      | -40.0       | -3.07       |
|                |           | Low     | 27000.0 - 37000.0 | -44.04      | -40.0       | -4.04       |
|                |           | Mid     | 30.0 - 35750.0    | -49.64      | -40.0       | -9.64       |
|                |           | Mid     | 3675.0 - 15000.0  | -41.48      | -40.0       | -1.48       |
|                |           | Mid     | 15000.0 - 27000.0 | -49.52      | -40.0       | -9.52       |
|                |           | Mid     | 27000.0 - 39000.0 | -43.57      | -40.0       | -3.57       |
|                |           | High    | 30.0 - 3640.0     | -51.21      | -40.0       | -11.21      |
|                |           | High    | 3740.0 - 15000.0  | -43.22      | -40.0       | -3.22       |
|                |           | High    | 15000.0 - 27000.0 | -48.7       | -40.0       | -8.70       |
|                |           | High    | 27000.0 - 39000.0 | -43.06      | -40.0       | -3.06       |

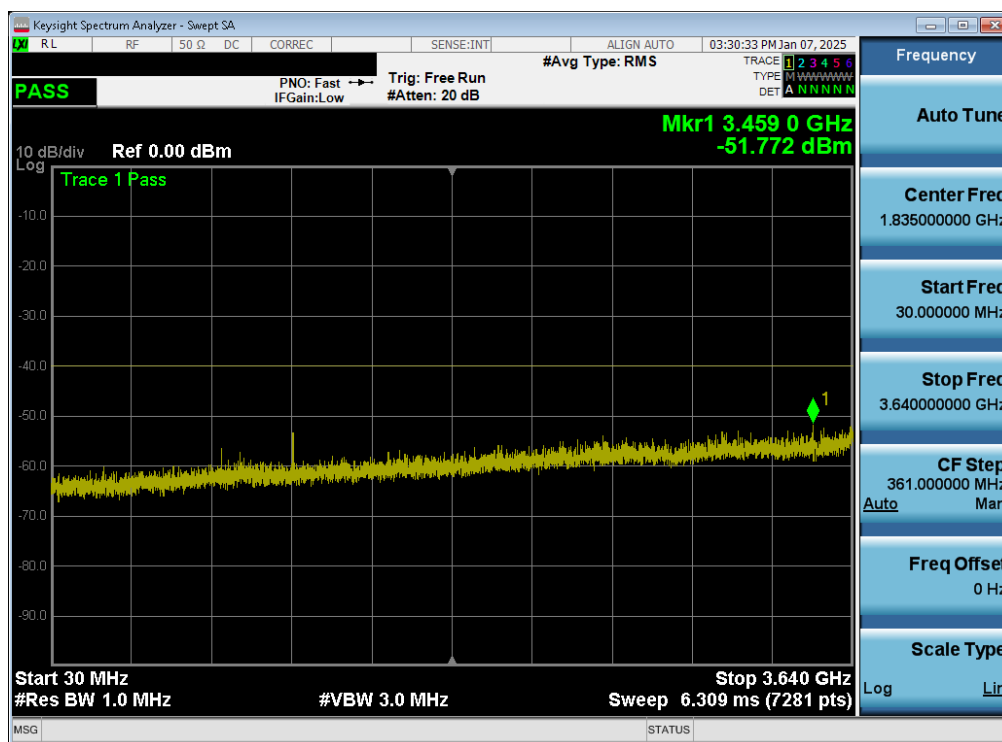
Table 7-20. Conducted Spurious Emission Test Results– UL MIMO Ant6

| Mode           | Bandwidth | Channel | Range [MHz]       | Level [dBm] | Limit [dBm] | Margin [dB] |
|----------------|-----------|---------|-------------------|-------------|-------------|-------------|
| UL MIMO NR-n48 | 40MHz     | Low     | 30.0 - 3510.0     | -46.34      | -40.0       | -6.34       |
|                |           | Low     | 3610.0 - 15000.0  | -42.84      | -40.0       | -2.83       |
|                |           | Low     | 15000.0 - 27000.0 | -47.67      | -40.0       | -7.67       |
|                |           | Low     | 27000.0 - 37000.0 | -44.18      | -40.0       | -4.18       |
|                |           | Mid     | 30.0 - 35750.0    | -49.81      | -40.0       | -9.80       |
|                |           | Mid     | 3675.0 - 15000.0  | -42.12      | -40.0       | -2.12       |
|                |           | Mid     | 15000.0 - 27000.0 | -47.55      | -40.0       | -7.55       |
|                |           | Mid     | 27000.0 - 39000.0 | -44.26      | -40.0       | -4.26       |
|                |           | High    | 30.0 - 3640.0     | -51.43      | -40.0       | -11.43      |
|                |           | High    | 3740.0 - 15000.0  | -41.65      | -40.0       | -1.65       |
|                |           | High    | 15000.0 - 27000.0 | -49.74      | -40.0       | -9.74       |
|                |           | High    | 27000.0 - 39000.0 | -44.27      | -40.0       | -4.27       |

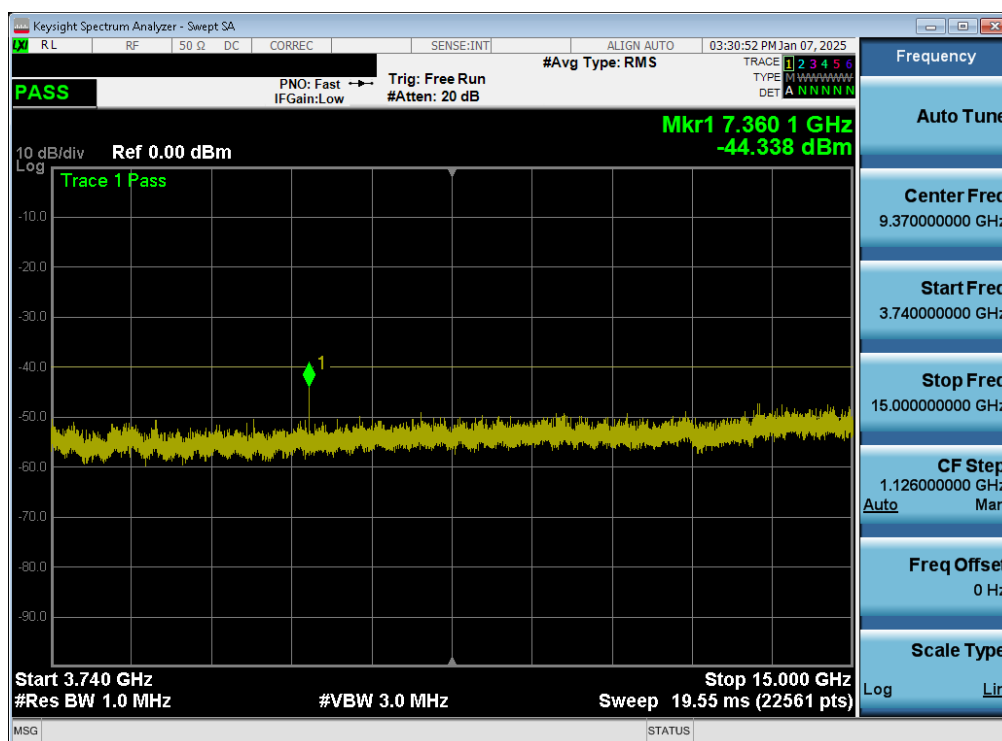
Table 7-21. Conducted Spurious Emission Test Results– UL MIMO Ant1

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 74 of 146                    |

## NR Band n48 – SRS Ant3

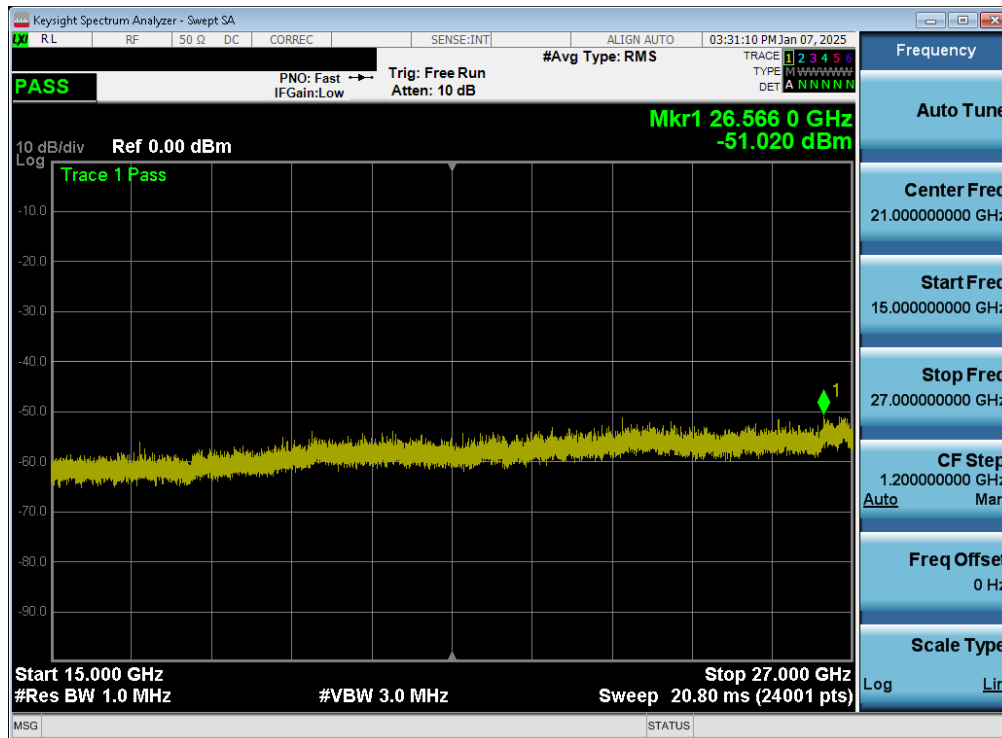


Plot 7-88. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel – SRS Ant3)

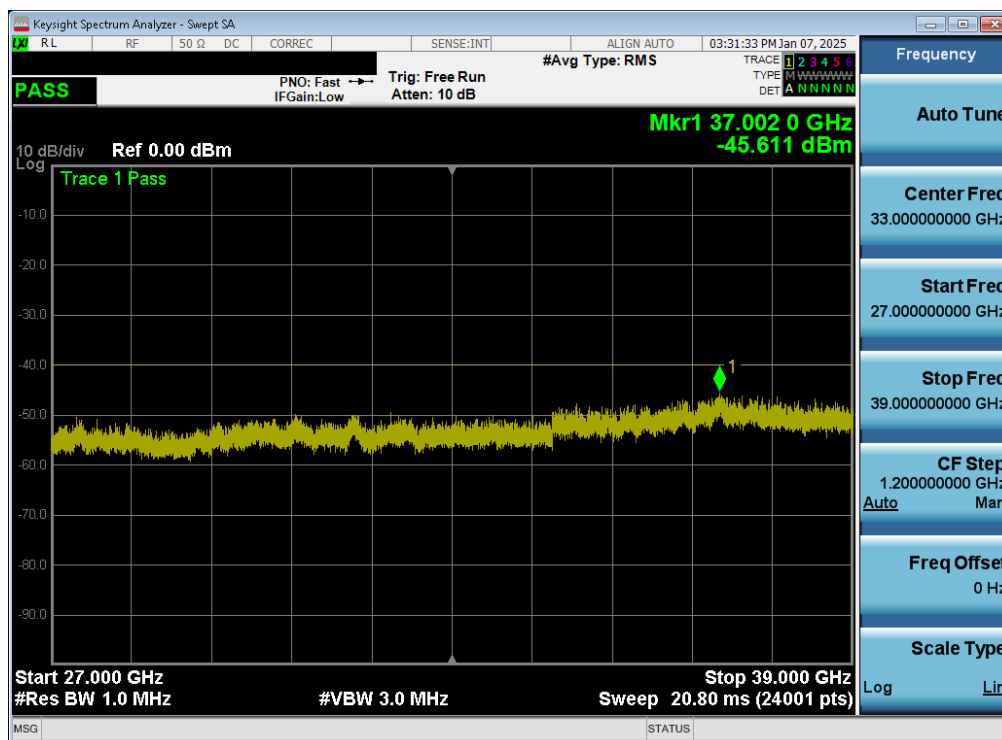


Plot 7-89. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel – SRS Ant3)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 75 of 146                    |



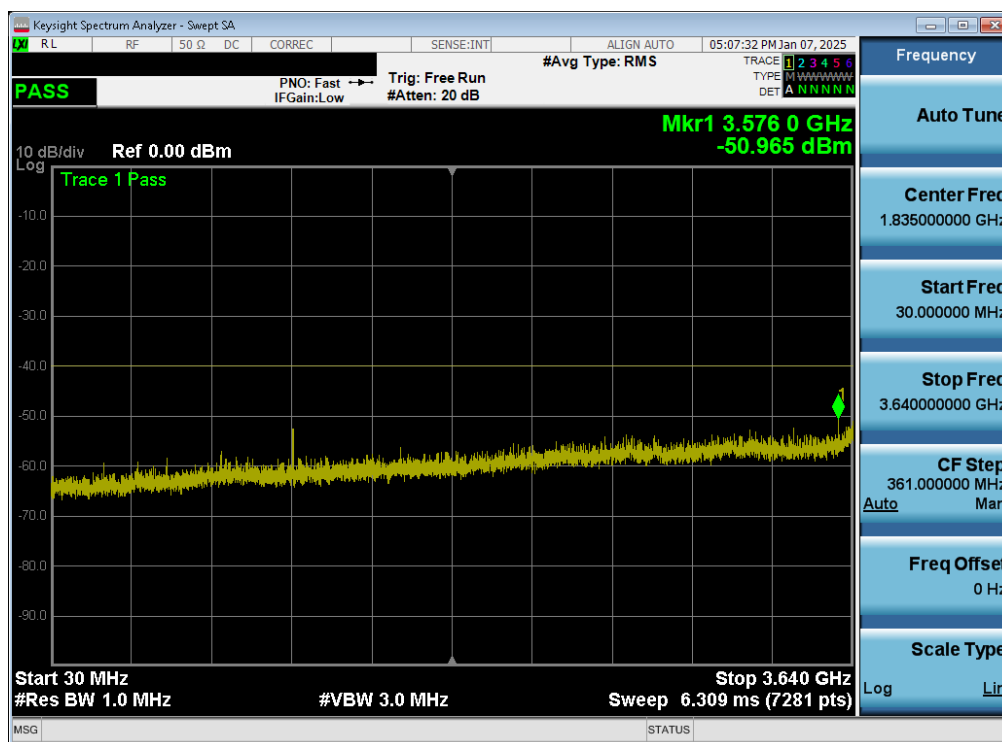
Plot 7-90. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel – SRS Ant3)



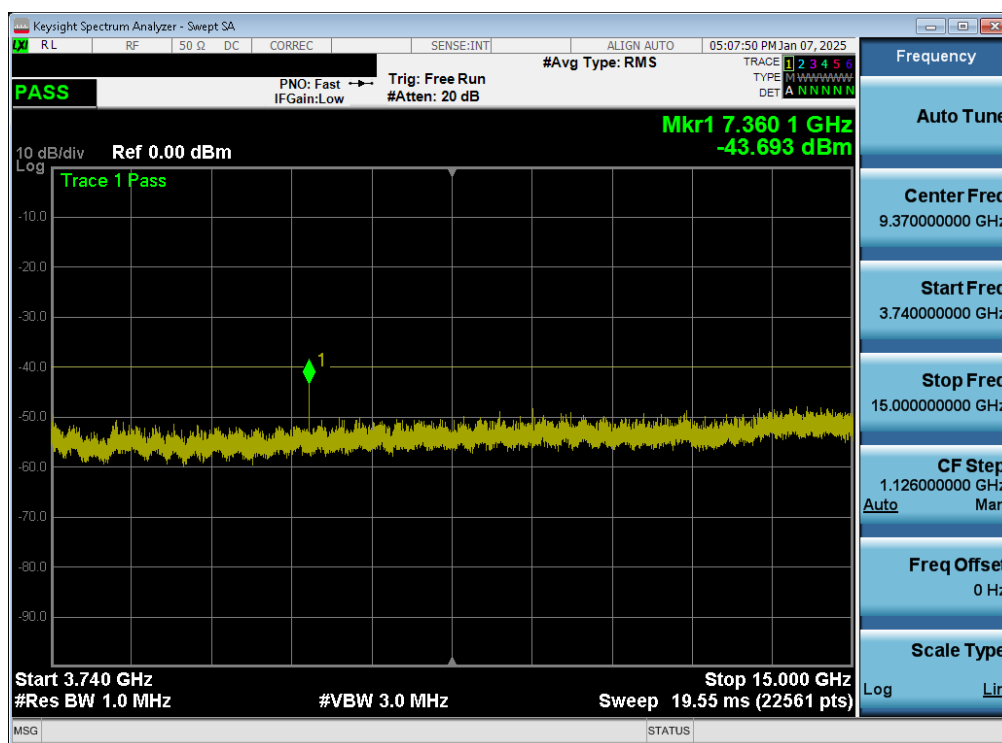
Plot 7-91. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel – SRS Ant3)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 76 of 146                    |

## NR Band n48 – SRS Ant4

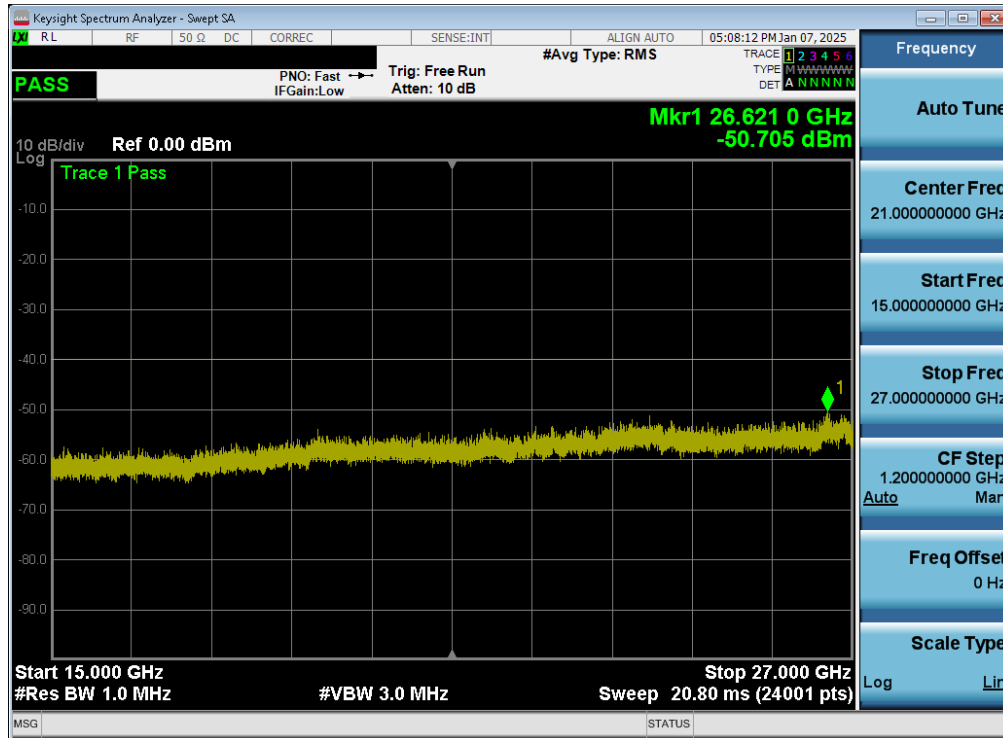


Plot 7-92. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel – SRS Ant4)

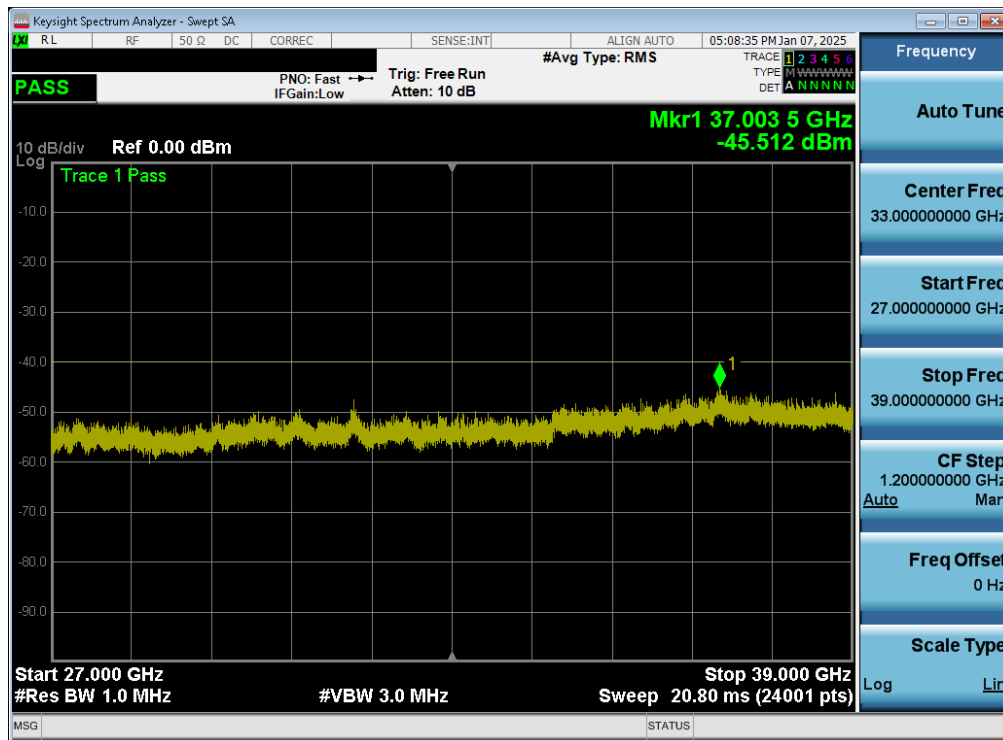


Plot 7-93. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel – SRS Ant4)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 77 of 146                    |



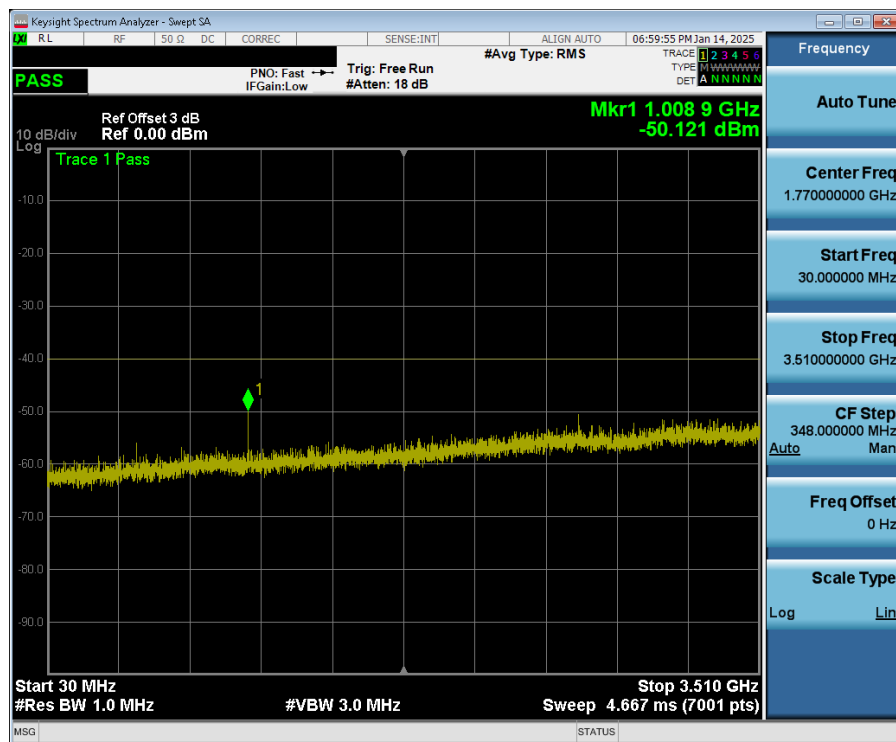
Plot 7-94. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel – SRS Ant4)



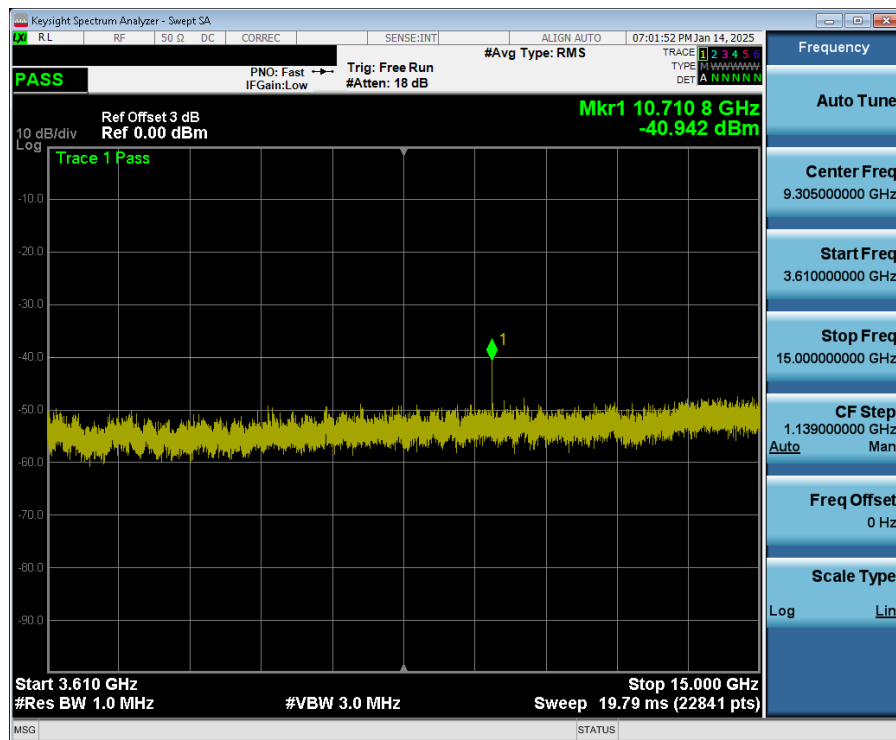
Plot 7-95. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel – SRS Ant4)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 78 of 146                    |

## NR Band n48 – UL MIMO Ant6

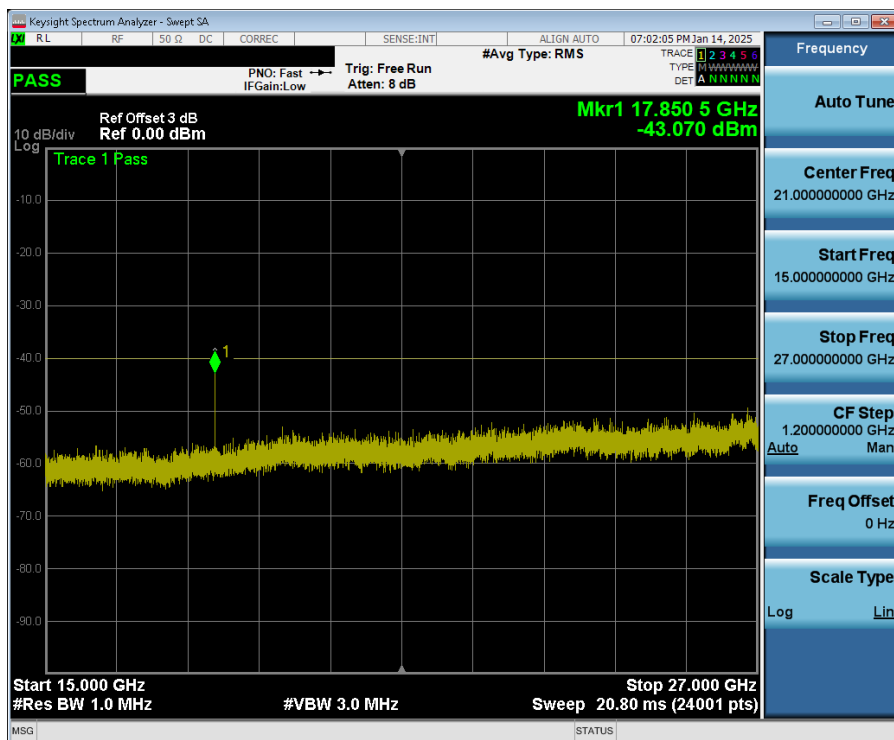


Plot 7-96. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel – UL MIMO Ant6)

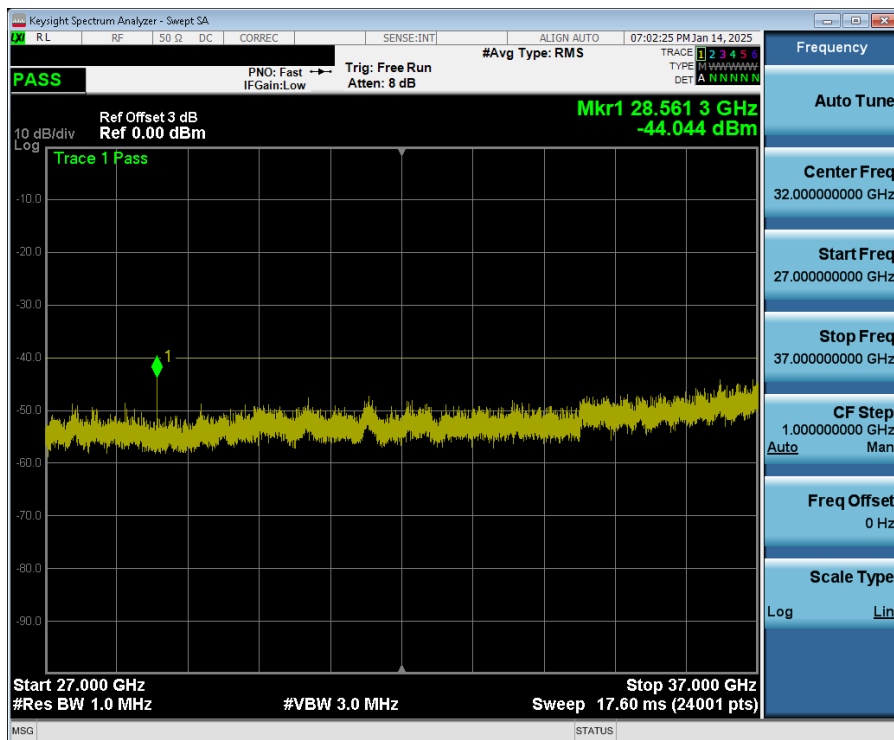


Plot 7-97. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel – UL MIMO Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 79 of 146                    |



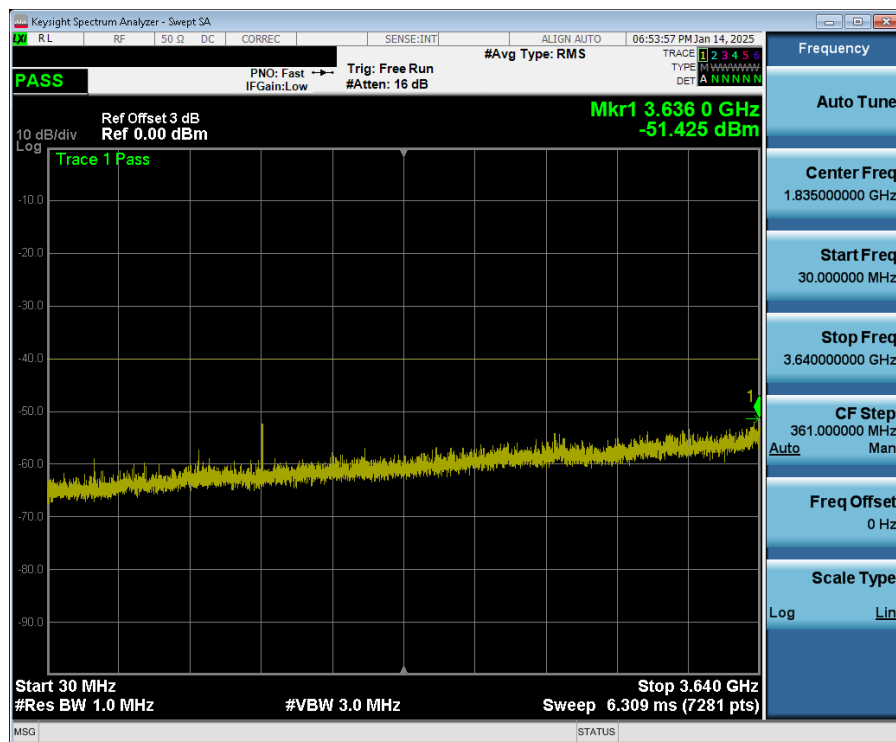
Plot 7-98. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel – UL MIMO Ant6)



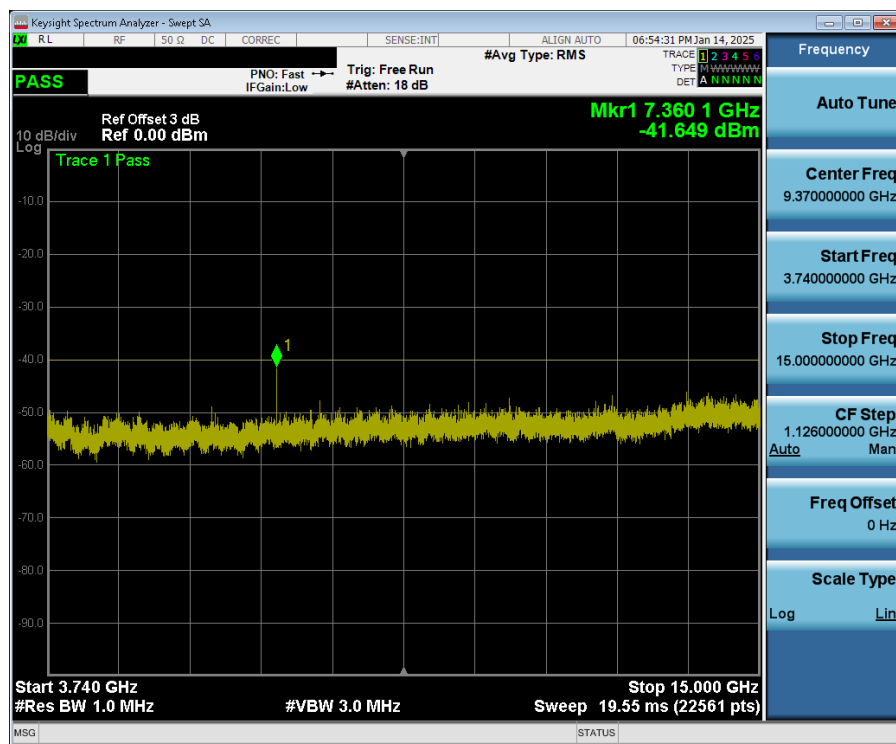
Plot 7-99. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - Low Channel – UL MIMO Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 80 of 146                    |

## NR Band n48 – UL MIMO Ant1

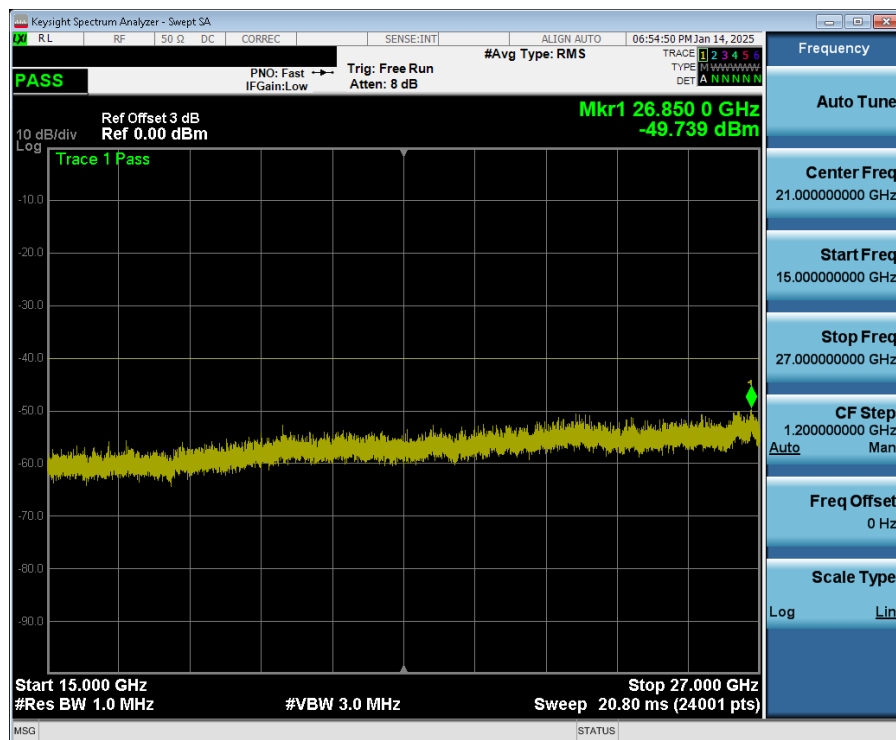


Plot 7-100. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel – UL MIMO Ant1)

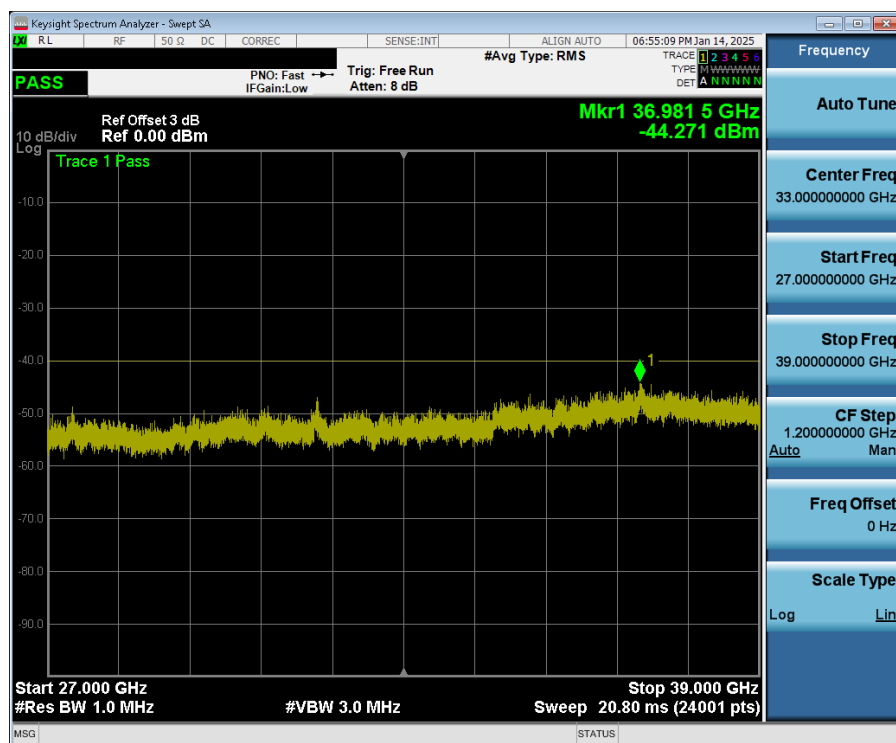


Plot 7-101. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel – UL MIMO Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 81 of 146                    |



Plot 7-102. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel – UL MIMO Ant1)



Plot 7-103. Conducted Spurious Plot (NR Band n48 - 40MHz QPSK - High Channel – UL MIMO Ant1)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 82 of 146                    |

## 7.5 Band Edge Emissions at Antenna Terminal

### 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 were investigated and the worst-case configuration results are reported in this section.

***For an End User Device, 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  $-40$  dBm/MHz.***

### Test Procedure Used

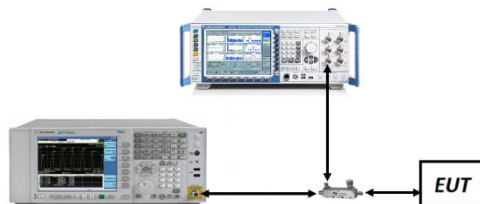
ANSI C63.26-2015 – Section 5.7.3

### 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  $\geq 1\%$  of the emission bandwidth
4. VBW  $\geq 3 \times$  RBW
5. Detector = RMS
6. Number of sweep points  $\geq 2 \times$  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 7-4. Test Instrument & Measurement Setup**

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 83 of 146                    |

## Test Notes

1. Per 96.41(e)(3)(i), compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's authorized frequency channel, a resolution bandwidth of no less than one percent of the fundamental emission bandwidth may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full reference bandwidth (i.e., 1 MHz or 1 percent of emission bandwidth, as specified). The fundamental 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 emissions are attenuated at least 26 dB below the transmitter power.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) 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.
3. Per ANSI C63.26-2015, MIMO compliance was addressed by adding  $10\log(2) = 3\text{dB}$  to the output of each antenna. A visual inspection of the plots for each antenna shows that the emissions are still compliant even after adding 3dB.

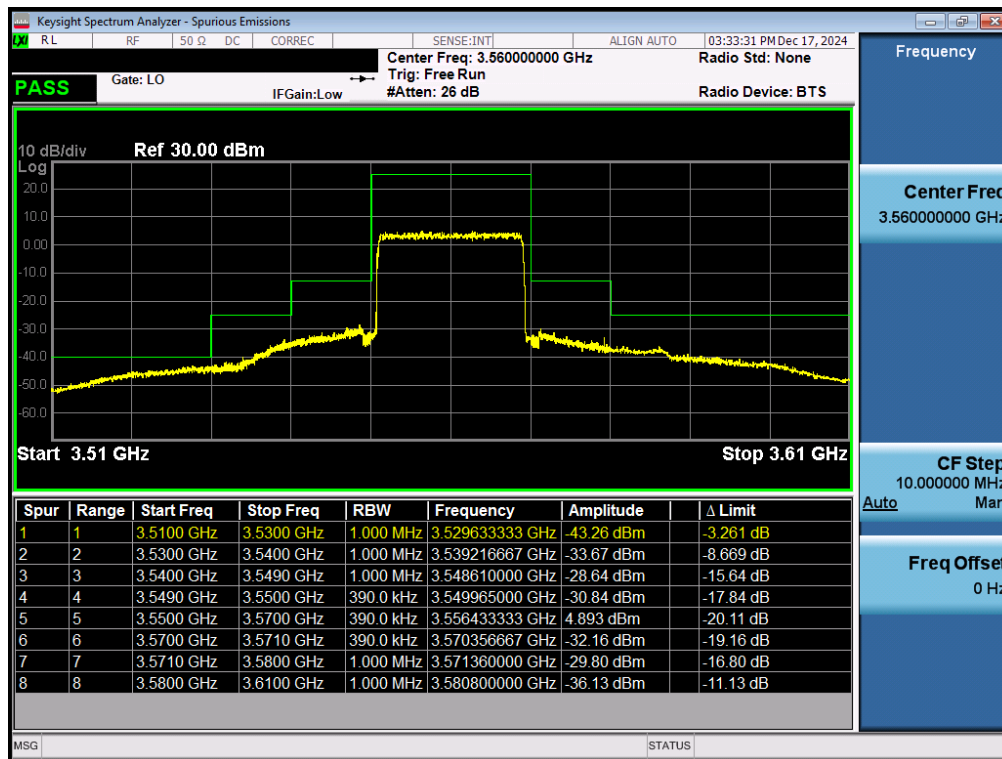
|                                                   |                                             |                                  |                                          |
|---------------------------------------------------|---------------------------------------------|----------------------------------|------------------------------------------|
| <b>FCC ID:</b> C3K2114                            | <b>PART 96 MEASUREMENT REPORT</b>           |                                  | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2411190103-07-R3.C3K | <b>Test Dates:</b><br>12/3/2024 – 4/29/2025 | <b>EUT Type:</b><br>Full Modular | Page 84 of 146                           |

| Mode      | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------|-----------|---------|-----------|-------------|-------------|-------------|
| LTE-B48   | 20 MHz    | Low     | Band Edge | -43.26      | -40         | -3.26       |
|           |           | Mid     | Band Edge | -34.88      | -25         | -9.88       |
|           |           | High    | Band Edge | -41.19      | -40         | -1.19       |
|           | 15 MHz    | Low     | Band Edge | -46.06      | -40         | -6.06       |
|           |           | Mid     | Band Edge | -37.06      | -25         | -12.06      |
|           |           | High    | Band Edge | -43.99      | -40         | -3.99       |
|           | 10 MHz    | Low     | Band Edge | -50.45      | -40         | -10.45      |
|           |           | Mid     | Band Edge | -40.89      | -25         | -15.89      |
|           |           | High    | Band Edge | -48.60      | -40         | -8.60       |
|           | 5 MHz     | Low     | Band Edge | -53.39      | -40         | -13.39      |
|           |           | Mid     | Band Edge | -27.50      | -13         | -14.50      |
|           |           | High    | Band Edge | -50.73      | -40         | -10.73      |
| ULCA LB48 | 20+20MHz  | Low     | Band Edge | -58.74      | -40         | -18.74      |
|           |           | Mid     | Band Edge | -26.91      | -13         | -13.91      |
|           |           | High    | Band Edge | -39.33      | -25         | -14.33      |
| NR-n48    | 40MHz     | Low     | Band Edge | -43.33      | -40         | -3.33       |
|           |           | Mid     | Band Edge | -39.21      | -25         | -14.21      |
|           |           | High    | Band Edge | -56.31      | -40         | -16.31      |
|           | 30MHz     | Low     | Band Edge | -43.37      | -40         | -3.37       |
|           |           | Mid     | Band Edge | -40.51      | -25         | -15.51      |
|           |           | High    | Band Edge | -43.57      | -40         | -3.57       |
|           | 20MHz     | Low     | Band Edge | -45.98      | -40         | -5.98       |
|           |           | Mid     | Band Edge | -41.07      | -25         | -16.07      |
|           |           | High    | Band Edge | -42.15      | -40         | -2.15       |
|           | 15MHz     | Low     | Band Edge | -48.56      | -40         | -8.56       |
|           |           | Mid     | Band Edge | -44.05      | -25         | -19.05      |
|           |           | High    | Band Edge | -45.25      | -40         | -5.25       |
|           | 10MHz     | Low     | Band Edge | -48.78      | -40         | -8.78       |
|           |           | Mid     | Band Edge | -40.10      | -25         | -15.10      |
|           |           | High    | Band Edge | -46.52      | -40         | -6.52       |

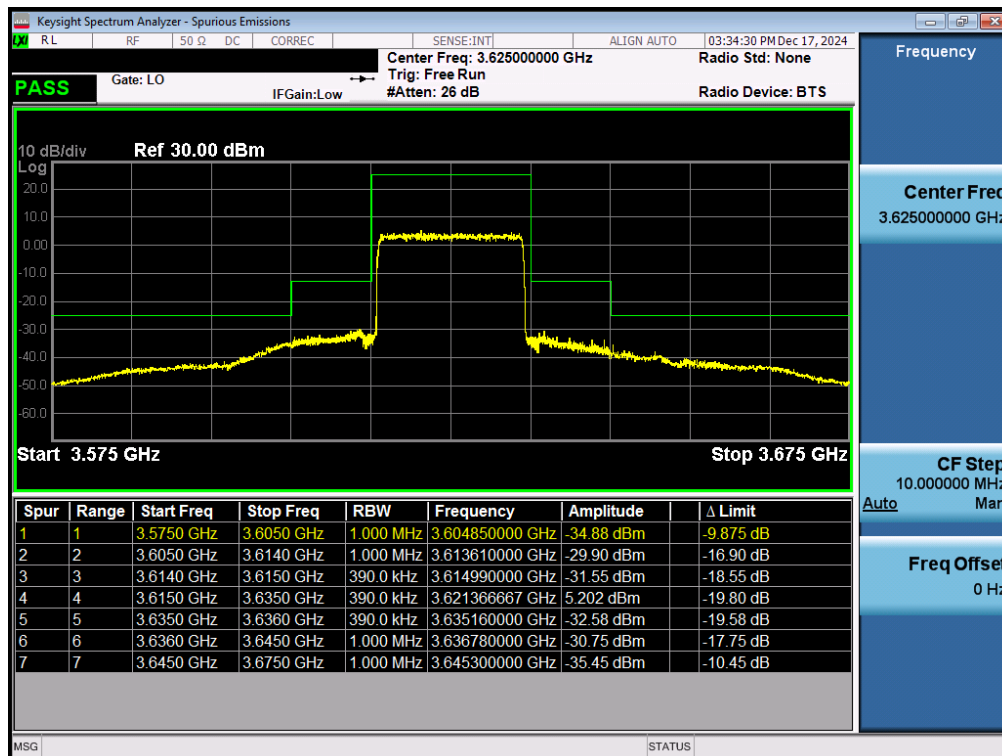
**Table 7-22. Conducted Band Edge Test Results – Ant6**

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 85 of 146                    |

## LTE Band 48 – Ant6

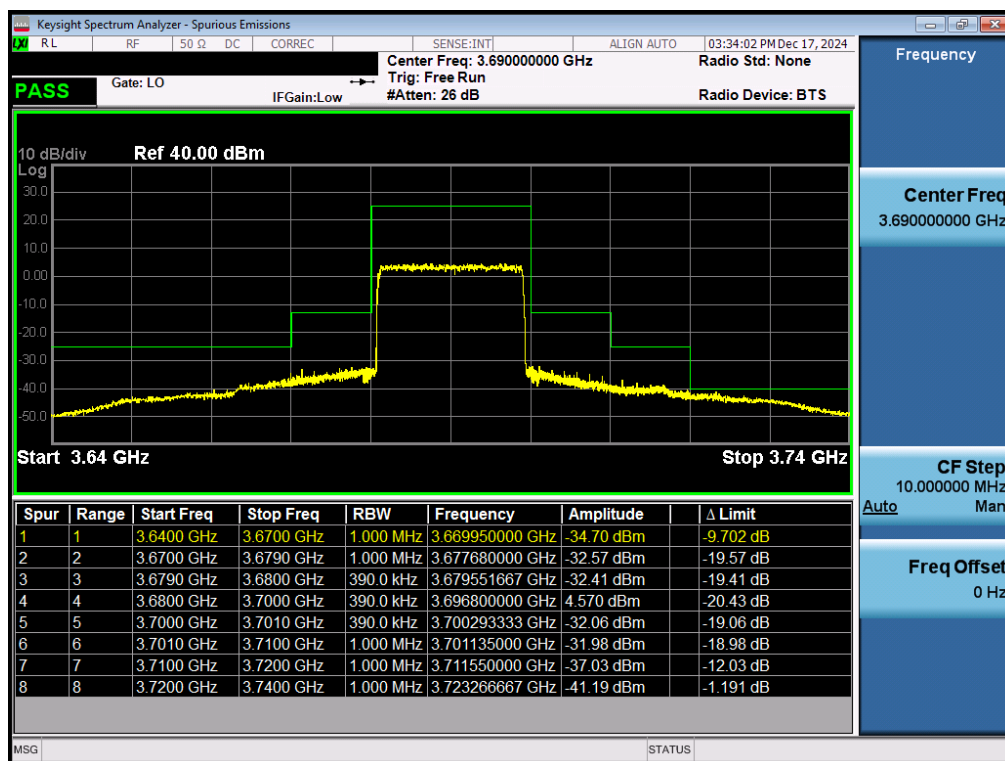


Plot 7-104. Channel - Ant6 Edge Plot (LTE Band 48 - 20MHz QPSK - Low Channel - Ant6)



Plot 7-105. Channel - Ant6 Edge Plot (LTE Band 48 - 20MHz QPSK - Mid Channel - Ant6)

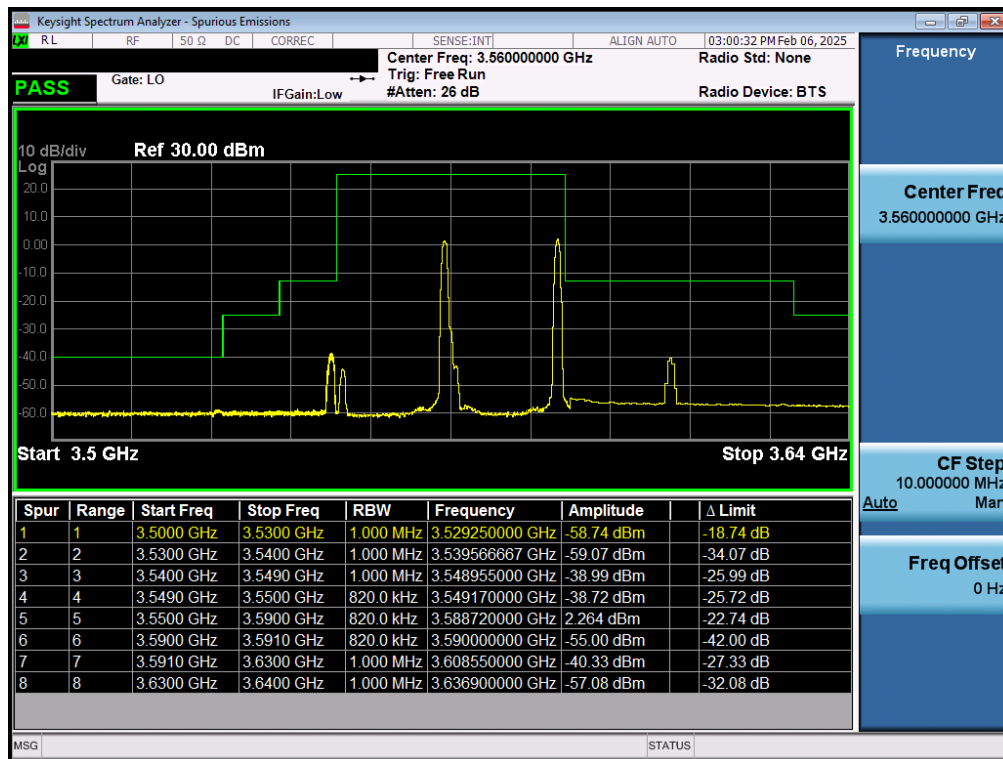
|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 86 of 146                    |



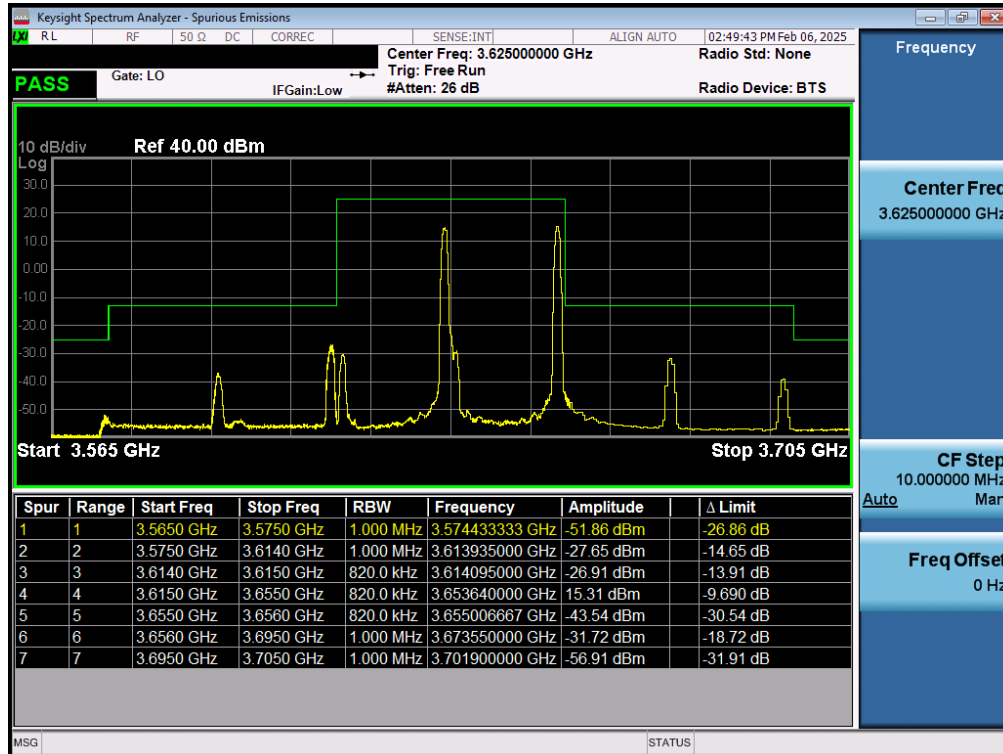
Plot 7-106. Channel - Ant6 Edge Plot (LTE Band 48 - 20MHz QPSK - High Channel - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 87 of 146                    |

## ULCA LB48 – Ant6

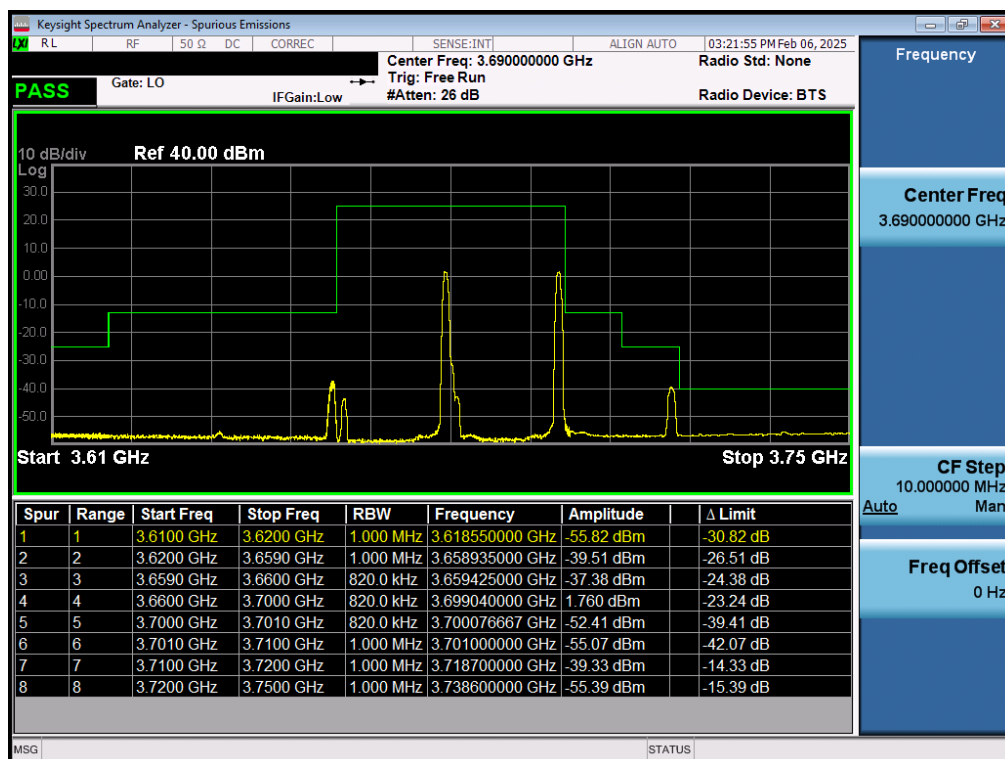


Plot 7-107. Channel - Ant6 Edge Plot (LTE Band 48 – 20+20MHz QPSK - Low Channel A-MRP - Ant6)



Plot 7-108. Channel - Ant6 Edge Plot (LTE Band 48 – 20+20MHz QPSK - Mid Channel - Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 88 of 146                    |



Plot 7-109. Channel - Ant6 Edge Plot (LTE Band 48 – 20+20MHz QPSK - High Channel A-MPR- Ant6)

|                                            |                                      |                           |                                   |
|--------------------------------------------|--------------------------------------|---------------------------|-----------------------------------|
| FCC ID: C3K2114                            | PART 96 MEASUREMENT REPORT           |                           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2411190103-07-R3.C3K | Test Dates:<br>12/3/2024 – 4/29/2025 | EUT Type:<br>Full Modular | Page 89 of 146                    |