

# TEST REPORT

FCC Sub6 n7 Test for TM18FNROBM0  
Certification

APPLICANT  
LG Electronics Inc.

REPORT NO.  
HCT-RF-2507-FC092

DATE OF ISSUE  
July 22, 2025

Tested by  
Jae Ryang Do



Technical Manager  
Jong Seok Lee



Accredited by KOLAS, Republic of KOREA

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# TEST REPORT

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**DATE OF ISSUE**

July 22, 2025

**Applicant**

**LG Electronics Inc.**

128, Yeoui-daero, Yeongdeungpo-gu, Seoul, Republic of Korea

**Product Name**

Telematics

**Model Name**

TM18FNROBM0

**Date of Test**

May 16, 2025 ~ July 22, 2025

**Location of Test**

☒ Permanent Testing Lab ☐ On Site Testing

(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)

**FCC ID**

2B03LTM18FNROBM0

**FCC Classification**

PCS Licensed Transmitter (PCB)

**Test Standard Used**

FCC Rule Part(s) : § 27

**Test Results**

PASS

## REVISION HISTORY

The revision history for this test report is shown in table.

| Revision No. | Date of Issue | Description     |
|--------------|---------------|-----------------|
| 0            | July 22, 2025 | Initial Release |

## Notice

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### Content

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The measurements shown in this report were made in accordance with the procedures specified in CFR47 section § 2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S.C. 853(a)

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

The laboratory is not accredited for the test results marked \*.

Information provided by the applicant is marked \*\*.

Test results provided by external providers are marked \*\*\*.

When confirmation of authenticity of this test report is required, please contact [www.hct.co.kr](http://www.hct.co.kr)

This test report provides test result(s) under the scope accredited by the Korea Laboratory Accreditation Scheme (KOLAS), which signed the ILAC-MRA.  
(KOLAS (KS Q ISO/IEC 17025) Accreditation No. KT197)

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## CONTENTS

|                                                                 |     |
|-----------------------------------------------------------------|-----|
| 1. GENERAL INFORMATION .....                                    | 5   |
| 1.1. SUPPORTED BANDS PER ANTENNA PORT .....                     | 6   |
| 1.2 MAXIMUM OUTPUT POWER.....                                   | 7   |
| 2. INTRODUCTION .....                                           | 8   |
| 2.1. DESCRIPTION OF EUT .....                                   | 8   |
| 2.2. MEASURING INSTRUMENT CALIBRATION.....                      | 8   |
| 2.3. TEST FACILITY .....                                        | 8   |
| 3. DESCRIPTION OF TESTS.....                                    | 9   |
| 3.1 TEST PROCEDURE.....                                         | 9   |
| 3.2 RADIATED POWER .....                                        | 10  |
| 3.3 RADIATED SPURIOUS EMISSIONS .....                           | 11  |
| 3.4 PEAK- TO- AVERAGE RATIO.....                                | 12  |
| 3.5 OCCUPIED BANDWIDTH. ....                                    | 13  |
| 3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL .....   | 14  |
| 3.7 CHANNEL EDGE.....                                           | 15  |
| 3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE..... | 17  |
| 3.9 WORST CASE(RADIATED TEST).....                              | 18  |
| 3.10 WORST CASE(CONDUCTED TEST) .....                           | 19  |
| 4. LIST OF TEST EQUIPMENT .....                                 | 21  |
| 5. MEASUREMENT UNCERTAINTY .....                                | 24  |
| 6. SUMMARY OF TEST RESULTS.....                                 | 25  |
| 7. SAMPLE CALCULATION .....                                     | 26  |
| 8. TEST DATA (MIMO1) .....                                      | 28  |
| 8.1 EQUIVALENT ISOTROPIC RADIATED POWER .....                   | 28  |
| 8.2 RADIATED SPURIOUS EMISSIONS .....                           | 36  |
| 8.3 PEAK-TO-AVERAGE RATIO.....                                  | 44  |
| 8.4 OCCUPIED BANDWIDTH .....                                    | 45  |
| 8.5 CONDUCTED SPURIOUS EMISSIONS.....                           | 46  |
| 8.6 CHANNEL EDGE.....                                           | 47  |
| 8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE..... | 49  |
| 9. TEST DATA (Internal(BUA)).....                               | 57  |
| 9.1 EQUIVALENT ISOTROPIC RADIATED POWER .....                   | 57  |
| 9.2 RADIATED SPURIOUS EMISSIONS .....                           | 65  |
| 10. TEST PLOTS.....                                             | 73  |
| 11. ANNEX A_ TEST SETUP PHOTO .....                             | 258 |

## MEASUREMENT REPORT

### 1. GENERAL INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Model(s):</b>           | TM18FNROBM0                                                                                                                                                                                                                                                                                                                                                         |
| <b>Voltage:</b>            | 4.2V                                                                                                                                                                                                                                                                                                                                                                |
| <b>SCS(kHz):</b>           | 15                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Bandwidth(MHz):</b>     | 5, 10, 15, 20, 25, 30, 40, 50                                                                                                                                                                                                                                                                                                                                       |
| <b>Waveform:</b>           | CP-OFDM, DFT-S-OFDM                                                                                                                                                                                                                                                                                                                                                 |
| <b>Modulation:</b>         | DFT-S-OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM<br>CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM                                                                                                                                                                                                                                                                            |
| <b>Tx Frequency:</b>       | 2502.5 MHz – 2567.5 MHz (Sub6 n7(5 MHz))<br>2505.0 MHz – 2565.0 MHz (Sub6 n7(10 MHz))<br>2507.5 MHz – 2562.5 MHz (Sub6 n7(15 MHz))<br>2510.0 MHz – 2560.0 MHz (Sub6 n7(20 MHz))<br>2512.5 MHz – 2557.5 MHz (Sub6 n7(25 MHz))<br>2515.0 MHz – 2555.0 MHz (Sub6 n7(30 MHz))<br>2520.0 MHz – 2550.0 MHz (Sub6 n7(40 MHz))<br>2525.0 MHz – 2545.0 MHz (Sub6 n7(50 MHz)) |
| <b>EUT Serial number:</b>  | Radiated : BMW ICON-25SF Radiated #5<br>Conducted : BMW ICON-25SF Conducted #17                                                                                                                                                                                                                                                                                     |
| <b>Antenna Information</b> | Please refer to the Antenna Specification document.                                                                                                                                                                                                                                                                                                                 |

### 1.1. SUPPORTED BANDS PER ANTENNA PORT

| Antenna Port                      | Supported bands                                                                                                                                                                                       |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MIMO 1                            | <ul style="list-style-type: none"> <li>- GSM850, 1900</li> <li>- WCDMA: B2, 4, 5</li> <li>- LTE: B4, 7, 12(17), 25(2), 26(5), 41(38), 42</li> <li>- NR: n7, 41, 77(78)</li> <li>- ULCA: 7C</li> </ul> |
| MIMO 2                            | <ul style="list-style-type: none"> <li>- LTE: B42</li> <li>- NR: n77(78)</li> </ul>                                                                                                                   |
| MIMO 3                            | Only RX                                                                                                                                                                                               |
| MIMO 4                            | Only RX                                                                                                                                                                                               |
| <b>Int. BUA (Back Up Antenna)</b> | <ul style="list-style-type: none"> <li>- GSM850, 1900</li> <li>- WCDMA: B2, 4, 5</li> <li>- LTE: B4, 7, 25(2), 26(5), 41(38)</li> <li>- NR: n7, 41</li> <li>- ULCA: 7C</li> </ul>                     |

**Note:**

1. Since the Int. BUA uses the same antenna port as MIMO1, only radiated testing was performed.

## 1.2 MAXIMUM OUTPUT POWER

| Mode<br>(MHz) | Tx Frequency<br>(MHz) | Emission<br>Designator | Modulation | Conducted Output Power |                     |
|---------------|-----------------------|------------------------|------------|------------------------|---------------------|
|               |                       |                        |            | Max. Power<br>(W)      | Max. Power<br>(dBm) |
| Sub6 n7 (5)   | 2502.5 – 2567.5       | 4M48G7D                | PI/2 BPSK  | 0.283                  | 24.52               |
|               |                       | 4M49G7D                | QPSK       | 0.286                  | 24.57               |
|               |                       | 4M49W7D                | 16QAM      | 0.225                  | 23.52               |
|               |                       | 4M49W7D                | 64QAM      | 0.169                  | 22.28               |
|               |                       | 4M50W7D                | 256QAM     | 0.096                  | 19.82               |
| Sub6 n7 (10)  | 2505.0 – 2565.0       | 8M97G7D                | PI/2 BPSK  | 0.301                  | 24.78               |
|               |                       | 8M94G7D                | QPSK       | 0.304                  | 24.83               |
|               |                       | 8M93W7D                | 16QAM      | 0.240                  | 23.80               |
|               |                       | 8M97W7D                | 64QAM      | 0.167                  | 22.24               |
|               |                       | 9M00W7D                | 256QAM     | 0.101                  | 20.03               |
| Sub6 n7 (15)  | 2507.5 – 2562.5       | 13M4G7D                | PI/2 BPSK  | 0.301                  | 24.78               |
|               |                       | 13M5G7D                | QPSK       | 0.297                  | 24.73               |
|               |                       | 13M4W7D                | 16QAM      | 0.236                  | 23.73               |
|               |                       | 13M4W7D                | 64QAM      | 0.166                  | 22.19               |
|               |                       | 13M4W7D                | 256QAM     | 0.109                  | 20.37               |
| Sub6 n7 (20)  | 2510.0 – 2560.0       | 17M9G7D                | PI/2 BPSK  | 0.299                  | 24.76               |
|               |                       | 17M9G7D                | QPSK       | 0.297                  | 24.73               |
|               |                       | 18M0W7D                | 16QAM      | 0.237                  | 23.74               |
|               |                       | 17M9W7D                | 64QAM      | 0.167                  | 22.22               |
|               |                       | 17M9W7D                | 256QAM     | 0.106                  | 20.26               |
| Sub6 n7 (25)  | 2512.5 – 2557.5       | 23M0G7D                | PI/2 BPSK  | 0.290                  | 24.62               |
|               |                       | 22M9G7D                | QPSK       | 0.289                  | 24.61               |
|               |                       | 22M9W7D                | 16QAM      | 0.231                  | 23.64               |
|               |                       | 22M9W7D                | 64QAM      | 0.161                  | 22.07               |
|               |                       | 22M9W7D                | 256QAM     | 0.102                  | 20.08               |
| Sub6 n7 (30)  | 2515.0 – 2555.0       | 28M6G7D                | PI/2 BPSK  | 0.291                  | 24.64               |
|               |                       | 28M7G7D                | QPSK       | 0.294                  | 24.68               |
|               |                       | 28M6W7D                | 16QAM      | 0.232                  | 23.66               |
|               |                       | 28M6W7D                | 64QAM      | 0.164                  | 22.15               |
|               |                       | 28M6W7D                | 256QAM     | 0.103                  | 20.14               |
| Sub6 n7 (40)  | 2520.0 – 2550.0       | 38M7G7D                | PI/2 BPSK  | 0.292                  | 24.65               |
|               |                       | 38M7G7D                | QPSK       | 0.285                  | 24.55               |
|               |                       | 38M6W7D                | 16QAM      | 0.216                  | 23.35               |
|               |                       | 38M7W7D                | 64QAM      | 0.154                  | 21.87               |
|               |                       | 38M7W7D                | 256QAM     | 0.096                  | 19.81               |
| Sub6 n7 (50)  | 2525.0 – 2545.0       | 48M4G7D                | PI/2 BPSK  | 0.294                  | 24.69               |
|               |                       | 48M4G7D                | QPSK       | 0.290                  | 24.63               |
|               |                       | 48M3W7D                | 16QAM      | 0.219                  | 23.40               |
|               |                       | 48M4W7D                | 64QAM      | 0.136                  | 21.35               |
|               |                       | 48M3W7D                | 256QAM     | 0.094                  | 19.74               |

## 2. INTRODUCTION

### 2.1. DESCRIPTION OF EUT

Please refer to the [2G3G] Test Report.

### 2.2. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

### 2.3. TEST FACILITY

The Fully-anechoic chamber and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea.

Detailed description of test facility was submitted to the Commission and accepted dated March 11, 2024 (Registration Number: KR0032).

### 3. DESCRIPTION OF TESTS

#### 3.1 TEST PROCEDURE

| Test Description                                    | Test Procedure Used                                                           |
|-----------------------------------------------------|-------------------------------------------------------------------------------|
| Occupied Bandwidth                                  | - KDB 971168 D01 v03r01 – Section 4.3<br>- ANSI C63.26-2015 – Section 5.4.4   |
| Channel Edge                                        | - KDB 971168 D01 v03r01 – Section 6.0<br>- ANSI C63.26-2015 – Section 5.7     |
| Spurious and Harmonic Emissions at Antenna Terminal | - KDB 971168 D01 v03r01 – Section 6.0<br>- ANSI C63.26-2015 – Section 5.7     |
| Conducted Output Power                              | - N/A (See SAR Report)                                                        |
| Peak- to- Average Ratio                             | - KDB 971168 D01 v03r01 – Section 5.7<br>- ANSI C63.26-2015 – Section 5.2.3.4 |
| Frequency stability                                 | - ANSI C63.26-2015 – Section 5.6                                              |
| Radiated Power                                      | - ANSI C63.26-2015 – Section 5.2.4.4<br>- KDB 971168 D01 v03r01 – Section 5.8 |
| Radiated Spurious and Harmonic Emissions            | - ANSI C63.26-2015 – Section 5.5.3<br>- KDB 971168 D01 v03r01 – Section 5.8   |

### 3.2 RADIATED POWER

#### Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

The equipment under test is placed on a non-conductive table 3-meters away from the receive antenna.

#### Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5 % of the expected OBW, not to exceed 1 MHz
3. VBW  $\geq$  3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points > 2 x span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

#### Test Note

1. The turntable is rotated through 360 degrees, and the receiving antenna scans in order to determine the level of the maximized emission.
2. A half wave dipole is then substituted in place of the EUT. For emissions above 1 GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.

The power is calculated by the following formula;

$$P_d \text{ (dBm)} = P_g \text{ (dBm)} - \text{cable loss (dB)} + \text{antenna gain (dB)}$$

Where:  $P_d$  is the dipole equivalent power and  $P_g$  is the generator output power into the substitution antenna.

3. The maximum value is calculated by adding the forward power to the calibrated source plus its appropriate gain value.  
These steps are repeated with the receiving antenna in both vertical and horizontal polarization. the difference between the gain of the horn and an isotropic antenna are taken into consideration
4. The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
5. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

### 3.3 RADIATED SPURIOUS EMISSIONS

#### Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method.

#### Test Settings

1. RBW = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1 GHz
2. VBW  $\geq 3 \times$  RBW
3. Span = 1.5 times the OBW
4. No. of sweep points  $> 2 \times$  span / RBW
5. Detector = Peak
6. Trace mode = Max Hold
7. The trace was allowed to stabilize
8. Test channel : Low/ Middle/ High
9. Frequency range : We are performed all frequency to 10<sup>th</sup> harmonics from 9 kHz.

#### Test Note

1. Measurements value show only up to 3 maximum emissions noted, or would be lesser if no specific emissions from the EUT are recorded (ie: margin  $> 20$  dB from the applicable limit) and considered that's already beyond the background noise floor.
2. The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.  
The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the test data
3. For spurious emissions above 1 GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.

The spurious emissions is calculated by the following formula;

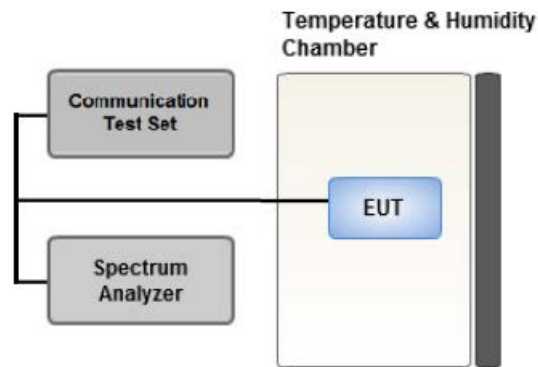
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

Where:  $P_g$  is the generator output power into the substitution antenna.

If the fundamental frequency is below 1 GHz, RF output power has been converted to EIRP.

$$\text{EIRP}_{(\text{dBm})} = \text{ERP}_{(\text{dBm})} + 2.15$$

### 3.4 PEAK- TO- AVERAGE RATIO



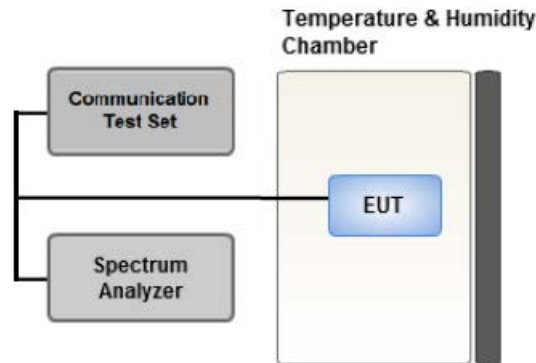
Test setup

#### CCDF Procedure for PAPR

##### Test Settings

1. Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Set the measurement interval as follows:
  - .- for continuous transmissions, set to 1 ms,
  - .- or burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
4. Record the maximum PAPR level associated with a probability of 0.1 %.

### 3.5 OCCUPIED BANDWIDTH.



#### Test setup

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

The EUT makes a call to the communication simulator.

The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

#### Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99 % occupied bandwidth and the 26 dB 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

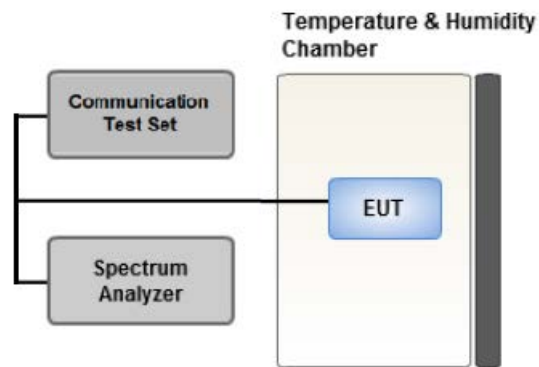
5. Trace mode = max hold

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

### 3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

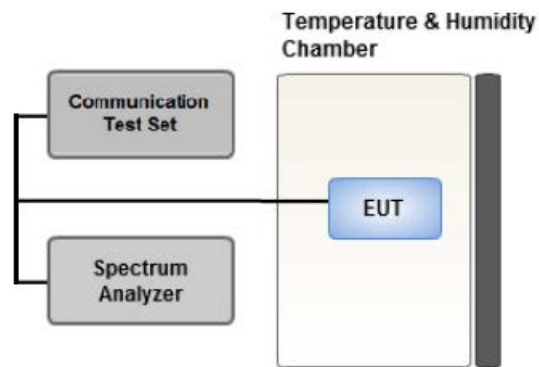
#### Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

#### Test Settings

1. RBW = 1 MHz
2. VBW  $\geq$  3 MHz
3. Detector = Peak
4. Trace Mode = Max Hold
5. Sweep time = auto
6. Number of points in sweep  $\geq 2 \times \text{Span} / \text{RBW}$

### 3.7 CHANNEL EDGE



#### Test setup

##### 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 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.

##### Test Settings

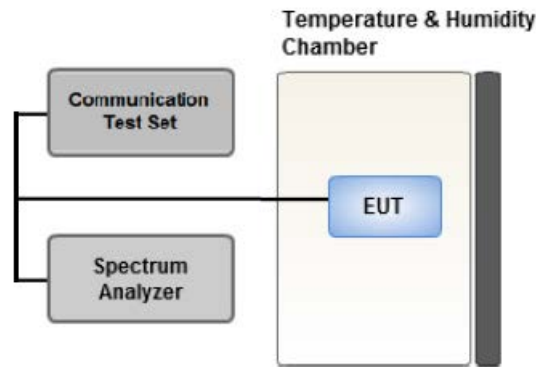
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. Within 1MHz of the channel edge the RBW should be 2 % of EBW, then 1 MHz after that.
4.  $VBW > 3 \times RBW$
5. Detector = RMS
6. Number of sweep points  $\geq 2 \times \text{Span}/RBW$
7. Trace mode = trace average
8. Sweep time  $> \text{Number of points in sweep} \times \text{Symbol period}$
9. The trace was allowed to stabilize

**Test Notes**

1. The attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,
2.  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge.
3.  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge.
4. The attenuation factor shall not be less than  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz.
5.  $55 + 10 \log (P)$  dB at or below 2490.5 MHz.
6. X is the greater of 6MHz or the actual emission bandwidth
7. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer

Where Margin < 1 dB the emission level is either corrected by  $10 \log(1 \text{ MHz} / \text{RB})$  or the emission is integrated over a 1 MHz bandwidth to determine the final result. When using the integration method the integration window is either centered on the emission or, for emissions at the band edge, centered by an offset of 500 kHz from the block edge so that the integration window is the 1 MHz adjacent to the block edge.

### 3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



Test setup

#### Test Overview

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015.

The frequency stability of the transmitter is measured by:

1. Temperature: The temperature is varied from -30 °C to +50 °C in 10 °C increments using an environmental chamber.
2. Primary Supply Voltage:
  - .- Unless otherwise specified, vary primary supply voltage from 85 % to 115 % of the nominal value for other than hand carried battery equipment.
  - .- For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.

#### Test Settings

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

### 3.9 WORST CASE(RADIATED TEST)

- The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
- The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data.
- All modes of operation were investigated and the worst case configuration results are reported.  
Mode: SA, NSA (Worst case: SA)
- Radiated Spurious emissions are measured while operating in EN-DC mode with Sub 6 NR carrier as well as an LTE carrier (anchor).  
All EN-DC mode of operation (=anchor) were investigated and the test results were measured No Peak Found.  
The test results which are attenuated more than 20 dB below the permissible value, so it was not reported.
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported. Please refer to the table below.
- MIMO3 and MIMO4 have three types of Rx antennas. Operating modes were investigated for all Rx antennas, and the worst-case configuration results were reported.  
(Worst-case: FSA antenna)

[ External(MIMO1) Worst case ]

| Test Description                    | Modulation                                        | RB size         | RB offset | Axis |
|-------------------------------------|---------------------------------------------------|-----------------|-----------|------|
| Equivalent Isotropic Radiated Power | PI/2 BPSK,<br>QPSK,<br>16QAM,<br>64QAM,<br>256QAM | See Section 8.1 |           | Z    |
| Radiated Spurious Emissions         | PI/2 BPSK                                         | See Section 8.2 |           | Z    |

[ Internal(BUA) Worst case ]

| Test Description                    | Modulation                                        | RB size         | RB offset | Axis |
|-------------------------------------|---------------------------------------------------|-----------------|-----------|------|
| Equivalent Isotropic Radiated Power | PI/2 BPSK,<br>QPSK,<br>16QAM,<br>64QAM,<br>256QAM | See Section 9.1 |           | Z    |
| Radiated Spurious Emissions         | PI/2 BPSK                                         | See Section 9.2 |           | Z    |

### 3.10 WORST CASE(CONDUCTED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported. (Worst case: DFT-S-OFDM)
- Modulation : All Modulation of operation were investigated and the worst case configuration results are reported. (Worst case: PI/2 BPSK)
- All modes of operation were investigated and the worst case configuration results are reported.  
Mode: SA, NSA (Worst case: SA)
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.  
Please refer to the table below.
- Both 85% and 115% conditions were measured for the Frequency Stability test, and results for the worst-case configuration (85%) were reported.
- In accordance with the customer's specification of 3.7V as the lowest operating voltage, testing was performed at 3.7V instead of 85% (3.57V).

[ Worst case ]

| Test Description                                       | Modulation                                        | Bandwidth (MHz)                 | Frequency            | RB size | RB offset |
|--------------------------------------------------------|---------------------------------------------------|---------------------------------|----------------------|---------|-----------|
| Occupied Bandwidth<br>Peak- to- Average Ratio          | PI/2 BPSK,<br>QPSK,<br>16QAM,<br>64QAM,<br>256QAM | 5, 10, 15, 20,<br>25, 30, 40,50 | Mid                  | Full RB | 0         |
| Channel Edge                                           | PI/2 BPSK                                         | 5                               | Low                  | 1       | 0         |
|                                                        |                                                   |                                 | High                 | 1       | 24        |
|                                                        |                                                   | 10                              | Low                  | 1       | 0         |
|                                                        |                                                   |                                 | High                 | 1       | 51        |
|                                                        |                                                   | 15                              | Low                  | 1       | 0         |
|                                                        |                                                   |                                 | High                 | 1       | 78        |
|                                                        |                                                   | 20                              | Low                  | 1       | 0         |
|                                                        |                                                   |                                 | High                 | 1       | 105       |
|                                                        |                                                   | 25                              | Low                  | 1       | 0         |
|                                                        |                                                   |                                 | High                 | 1       | 132       |
|                                                        |                                                   | 30                              | Low                  | 1       | 0         |
|                                                        |                                                   |                                 | High                 | 1       | 159       |
|                                                        |                                                   | 40                              | Low                  | 1       | 0         |
|                                                        |                                                   |                                 | High                 | 1       | 215       |
|                                                        |                                                   | 50                              | Low                  | 1       | 0         |
|                                                        |                                                   |                                 | High                 | 1       | 269       |
|                                                        |                                                   | 5, 10, 15, 20,<br>25, 30, 40,50 | Low,<br>Mid,<br>High | Full RB | 0         |
| Spurious and Harmonic Emissions at<br>Antenna Terminal | PI/2 BPSK                                         | 5, 10, 15, 20,<br>25, 30, 40,50 | Low,<br>Mid,<br>High | 1       | 1         |

#### 4. LIST OF TEST EQUIPMENT

[Radiated]

| Equipment                                 | Model                      | Manufacturer           | Serial No.             | Due to Calibration | Calibration Interval |
|-------------------------------------------|----------------------------|------------------------|------------------------|--------------------|----------------------|
| RF Switch System                          | FBSR-04C(3G HPF+LNA)       | TNM System             | S4L1                   | 03/12/2026         | Annual               |
| RF Switch System                          | FBSR-04C(7G HPF+LNA)       | TNM System             | S4L5                   | 03/12/2026         | Annual               |
| RF Switch System                          | FBSR-04C(LNA)              | TNM System             | S4L4                   | 03/12/2026         | Annual               |
| RF Switch System                          | FBSR-04C(Thru)             | TNM System             | S4L6                   | 03/12/2026         | Annual               |
| Antenna Position Tower                    | MA4640                     | Innco systems          | S4AM                   | 08/07/2025         | Annual               |
| Turn Table                                | DS2000-S                   | Innco systems          | N/A                    | N/A                | -                    |
| Controller<br>(Antenna mast & Turn Table) | CO3000                     | Innco systems          | CO3000/1251/48920320/P | N/A                | -                    |
| Amp & Filter Bank Switch Controller       | FBSM-01B                   | TNM system             | TM20090002             | N/A                | -                    |
| RF Switching System                       | Switch box(1 G HPF+LNA)    | HCT CO., LTD.,         | F2L2                   | 12/12/2025         | Annual               |
| RF Switching System                       | Switch box(3 G HPF+LNA)    | HCT CO., LTD.,         | F2L3                   | 12/12/2025         | Annual               |
| RF Switching System                       | Switch box(LNA)            | HCT CO., LTD.,         | F2L5                   | 12/12/2025         | Annual               |
| RF Switching System                       | Switch box(6 G HPF+LNA)    | HCT CO., LTD.,         | F2L14                  | 12/12/2025         | Annual               |
| HIGHPASS FILTER                           | WHKX10-900-1000-15000-40SS | WAINWRIGHT INSTRUMENTS | 16                     | 07/24/2025         | Annual               |
| LOW NOISE AMPLIFIER                       | 310N                       | SONOMA Instrument      | 186169                 | 02/05/2026         | Annual               |
| LOW NOISE AMPLIFIER                       | TK-PA1840H                 | TESTEK                 | 170011-L               | 10/11/2025         | Annual               |
| Power Amplifier                           | CBL18265035                | CERNEX                 | 22966                  | 11/07/2025         | Annual               |
| Power Amplifier                           | CBL26405040                | CERNEX                 | 25956                  | 02/19/2026         | Annual               |
| Power Splitter(DC ~ 26.5 GHz)             | 11667B                     | Hewlett Packard        | 5001                   | 04/10/2026         | Annual               |
| DC Power Supply                           | E3632A                     | Agilent                | MY40010147             | 08/06/2025         | Annual               |
| Dipole Antenna                            | UHAP                       | Schwarzbeck            | 01274                  | 03/10/2026         | Biennial             |
| Dipole Antenna                            | UHAP                       | Schwarzbeck            | 01288                  | 08/07/2026         | Biennial             |
| Horn Antenna(1 ~ 18 GHz)                  | BBHA 9120D                 | Schwarzbeck            | 03197                  | 11/28/2025         | Biennial             |
| Horn Antenna(1 ~ 18 GHz)                  | BBHA 9120D                 | Schwarzbeck            | 03201                  | 11/28/2025         | Biennial             |
| Horn Antenna(1 ~ 18 GHz)                  | BBHA 9120                  | Schwarzbeck            | 937                    | 02/07/2027         | Biennial             |
| Horn Antenna(15 ~ 40 GHz)                 | BBHA 9170                  | Schwarzbeck            | BBHA9170124            | 03/23/2027         | Biennial             |
| Horn Antenna(15 ~ 40 GHz)                 | BBHA 9170                  | Schwarzbeck            | BBHA9170342            | 09/20/2026         | Biennial             |

| Equipment                                | Model            | Manufacturer     | Serial No. | Due to Calibration | Calibration Interval |
|------------------------------------------|------------------|------------------|------------|--------------------|----------------------|
| Spectrum Analyzer(10 Hz ~ 40 GHz)        | FSV40            | ROHDE & SCHWARZ  | 101733     | 09/19/2025         | Annual               |
| Spectrum Analyzer(10 Hz ~ 40 GHz)        | FSV40            | REOHDE & SCHWARZ | 101436     | 02/04/2026         | Annual               |
| Signal & Spectrum Analyzer (2 Hz~67 GHz) | FSW67            | REOHDE & SCHWARZ | 101736     | 05/27/2026         | Annual               |
| Base Station                             | 8960 (E5515C)    | Agilent          | MY48360800 | 08/05/2025         | Annual               |
| Loop Antenna(9 kHz ~ 30 MHz)             | FMZB1513         | Schwarzbeck      | 1513-333   | 03/07/2026         | Biennial             |
| Trilog Broadband Antenna                 | VULB 9168        | Schwarzbeck      | 9168-0895  | 08/28/2026         | Biennial             |
| Trilog Broadband Antenna                 | VULB9168         | Schwarzbeck      | 895        | 08/28/2026         | Biennial             |
| Trilog Broadband Antenna                 | VULB9168         | Schwarzbeck      | 1135       | 08/19/2026         | Biennial             |
| Wideband Radio Communication Tester      | MT8821C          | Anritsu Corp.    | 6262287701 | 05/14/2026         | Annual               |
| Wideband Radio Communication Tester      | MT8000A          | Anritsu Corp.    | 6272613402 | 08/28/2025         | Annual               |
| SIGNAL GENERATOR<br>(100 kHz ~ 40 GHz)   | SMB100A          | REOHDE & SCHWARZ | 177633     | 07/26/2025         | Annual               |
| Automation Software                      | FCC LTE Radiated | HCT CO., LTD     | -          | -                  | -                    |
| Automation Software                      | FCC NR Radiated  | HCT CO., LTD     | -          | -                  | -                    |

[Conducted]

| Equipment                                               | Model                  | Manufacturer    | Serial No. | Due to Calibration | Calibration Interval |
|---------------------------------------------------------|------------------------|-----------------|------------|--------------------|----------------------|
| Power Splitter<br>(DC ~ 26.5 GHz)                       | 11667B                 | Hewlett Packard | 5001       | 04/10/2026         | Annual               |
| DC Power Supply                                         | E3632A                 | Agilent         | MY40010147 | 08/06/2025         | Annual               |
| Chamber                                                 | SU-642                 | ESPEC           | 93008124   | 02/11/2026         | Annual               |
| ATTENUATOR<br>(20 dB)                                   | 8493C                  | Hewlett Packard | 17280      | 04/10/2026         | Annual               |
| Base Station                                            | 8960 (E5515C)          | Agilent         | MY48360800 | 08/05/2025         | Annual               |
| Wideband Radio Communication<br>Tester                  | MT8821C                | Anritsu Corp.   | 6262094331 | 11/13/2025         | Annual               |
| UXM 5G Wireless Test Platform                           | E7515B                 | KEYSIGHT        | MY60101126 | 02/10/2026         | Annual               |
| Signal Analyzer<br>(2 Hz ~ 50.0 GHz)                    | N9030B                 | KEYSIGHT        | MY56320554 | 02/03/2026         | Annual               |
| FCC LTE Mobile Conducted RF<br>Automation Test Software | -                      | HCT CO., LTD.   | -          | -                  | -                    |
| Automation Software                                     | FCC 2G/3G/4G Conducted | HCT CO., LTD    | -          | -                  | -                    |
| Automation Software                                     | FCC NR Conducted       | HCT CO., LTD    | -          | -                  | -                    |

**Note:**

1. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
2. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2017).

## 5. 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 data shown herein 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.

| Parameter           | Expanded Uncertainty ( $\pm$ kHz)        |
|---------------------|------------------------------------------|
| Occupied Bandwidth  | 95 (Confidence level about 95 %, $k=2$ ) |
| Frequency stability | 28 (Confidence level about 95 %, $k=2$ ) |

| Parameter                              | Expanded Uncertainty ( $\pm$ dB)           |
|----------------------------------------|--------------------------------------------|
| Block Edge                             | 0.70 (Confidence level about 95 %, $k=2$ ) |
| Conducted Spurious Emissions           | 1.18 (Confidence level about 95 %, $k=2$ ) |
| Peak- to- Average Ratio                | 0.68 (Confidence level about 95 %, $k=2$ ) |
| Radiated Power                         | 4.74 (Confidence level about 95 %, $k=2$ ) |
| Radiated Disturbance (9 kHz ~ 30 MHz)  | 4.36 (Confidence level about 95 %, $k=2$ ) |
| Radiated Disturbance (30 MHz ~ 1 GHz)  | 5.68 (Confidence level about 95 %, $k=2$ ) |
| Radiated Disturbance (1 GHz ~ 18 GHz)  | 5.75 (Confidence level about 95 %, $k=2$ ) |
| Radiated Disturbance (18 GHz ~ 40 GHz) | 5.82 (Confidence level about 95 %, $k=2$ ) |
| Radiated Disturbance (Above 40 GHz)    | 5.58 (Confidence level about 95 %, $k=2$ ) |

## 6. SUMMARY OF TEST RESULTS

- The decision rule applies 'simple acceptance'

### 6.1 Test Condition : Conducted Test

| Test Description                                                 | FCC Part Section(s)        | Test Limit                                                                                                                                                                                                                                                                                                                                                                                                                                  | Test Result       |
|------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Occupied Bandwidth                                               | § 2.1049                   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                         | PASS              |
| Band Edge / Spurious and Harmonic Emissions at Antenna Terminal. | § 2.1051,<br>§ 27.53(m)(4) | <ul style="list-style-type: none"> <li>■ <math>&lt; 40 + 10\log_{10} (P[\text{Watts}])</math> at Channel edges</li> <li>■ <math>&lt; 43 + 10\log_{10} (P[\text{Watts}])</math> between 5 and X MHz from Channel edges</li> <li>■ <math>&lt; 55 + 10\log_{10} (P[\text{Watts}])</math> beyond X MHz beyond from Channel edges</li> <li>■ <math>&lt; 43 + 10 \log (P)</math> dB on all frequencies between 2490.5 MHz and 2496 MHz</li> </ul> | PASS              |
| Conducted Output Power                                           | § 2.1046                   | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                         | Note <sup>1</sup> |
| Frequency stability / variation of ambient temperature           | § 2.1055,<br>§ 27.54       | Emission must remain in band                                                                                                                                                                                                                                                                                                                                                                                                                | PASS              |

#### **Note:**

1. Refer to the SAR report.
2. All conducted tests were tested using 5G Wireless Tester.

### 6.2 Test Condition : Radiated Test

| Test Description                         | FCC Part Section(s)        | Test Limit                             | Test Result |
|------------------------------------------|----------------------------|----------------------------------------|-------------|
| Equivalent Isotropic Radiated Power      | § 27.50(h)(2)              | $< 2$ Watts max. EIRP                  | PASS        |
| Radiated Spurious and Harmonic Emissions | § 2.1053,<br>§ 27.53(m)(4) | $< 55 + 10\log_{10} (P[\text{Watts}])$ | PASS        |

#### **Note:**

1. Radiated tests were tested using 5G Wireless Tester.

## 7. SAMPLE CALCULATION

### 7.1 ERP Sample Calculation

| Ch./ Freq. |            | Measured<br>Level (dBm) | Substitute<br>Level (dBm) | Ant. Gain<br>(dBd) | C.L  | Pol. | ERP   |       |
|------------|------------|-------------------------|---------------------------|--------------------|------|------|-------|-------|
| channel    | Freq.(MHz) |                         |                           |                    |      |      | W     | dBm   |
| 128        | 824.20     | -21.37                  | 38.40                     | -10.61             | 0.95 | H    | 0.483 | 26.84 |

$$\text{ERP} = \text{Substitute LEVEL(dBm)} + \text{Ant. Gain} - \text{CL(Cable Loss)}$$

- 1) The EUT mounted on a non-conductive turntable is 2.5 meter above test site ground level.
- 2) During the test, the turn table is rotated until the maximum signal is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item (3).
- 6) The signal generator output level with Ant. Gain and cable loss are the rating of effective radiated power.

### 7.2 EIRP Sample Calculation

| Ch./ Freq. |            | Measured<br>Level (dBm) | Substitute<br>Level (dBm) | Ant. Gain<br>(dBi) | C.L  | Pol. | EIRP  |       |
|------------|------------|-------------------------|---------------------------|--------------------|------|------|-------|-------|
| channel    | Freq.(MHz) |                         |                           |                    |      |      | W     | dBm   |
| 20175      | 1,732.50   | -15.75                  | 18.45                     | 9.90               | 1.76 | H    | 0.456 | 26.59 |

$$\text{EIRP} = \text{Substitute LEVEL(dBm)} + \text{Ant. Gain} - \text{CL(Cable Loss)}$$

- 1) The EUT mounted on a non-conductive turntable is 2.5 meter above test site ground level.
- 2) During the test, the turn table is rotated until the maximum signal is found.
- 3) Record the field strength meter's level.
- 4) Replace the EUT with dipole/Horn antenna that is connected to a calibrated signal generator.
- 5) Increase the signal generator output till the field strength meter's level is equal to the item (3).
- 6) The signal generator output level with Ant. Gain and cable loss are the rating of equivalent isotropic radiated power.

### 7.3. Emission Designator

#### GSM Emission Designator

Emission Designator = 249KGXW

GSM BW = 249 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

#### EDGE Emission Designator

Emission Designator = 249KG7W

GSM BW = 249 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

#### WCDMA Emission Designator

Emission Designator = 4M17F9W

WCDMA BW = 4.17 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

#### QPSK Modulation

Emission Designator = 4M48G7D

LTE BW = 4.48 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

#### QAM Modulation

Emission Designator = 4M48W7D

LTE BW = 4.48 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

## 8. TEST DATA (MIMO1)

### 8.1 EQUIVALENT ISOTROPIC RADIATED POWER

| Freq<br>(MHz) | Mod/<br>Bandwidth<br>[SCS (kHz)] | Modulation | Measured<br>Level (dBm) | Substitute Level<br>(dBm) | Ant. Gain<br>(dBi) | C.L  | Pol. | Limit  | EIRP  |       | RB   |        |
|---------------|----------------------------------|------------|-------------------------|---------------------------|--------------------|------|------|--------|-------|-------|------|--------|
|               |                                  |            |                         |                           |                    |      |      | W      | W     | dBm   | Size | Offset |
| 2502.5        |                                  | PI/2 BPSK  | -23.87                  | 14.58                     | 10.26              | 2.51 | H    |        | 0.171 | 22.33 | 1    | 23     |
|               |                                  | QPSK       | -23.94                  | 14.51                     | 10.26              | 2.51 | H    |        | 0.168 | 22.26 |      |        |
|               |                                  | 16-QAM     | -24.94                  | 13.51                     | 10.26              | 2.51 | H    |        | 0.134 | 21.26 |      |        |
|               |                                  | 64-QAM     | -26.35                  | 12.10                     | 10.26              | 2.51 | H    |        | 0.097 | 19.85 |      |        |
|               |                                  | 256-QAM    | -28.63                  | 9.82                      | 10.26              | 2.51 | H    |        | 0.057 | 17.57 |      |        |
| 2535.0        | Sub6 n7/<br>5 MHz<br>[15 kHz]    | PI/2 BPSK  | -23.47                  | 15.37                     | 10.25              | 2.54 | H    | < 2.00 | 0.203 | 23.08 | 1    | 12     |
|               |                                  | QPSK       | -23.48                  | 15.36                     | 10.25              | 2.54 | H    |        | 0.203 | 23.07 |      |        |
|               |                                  | 16-QAM     | -24.24                  | 14.60                     | 10.25              | 2.54 | H    |        | 0.170 | 22.31 |      |        |
|               |                                  | 64-QAM     | -25.77                  | 13.07                     | 10.25              | 2.54 | H    |        | 0.120 | 20.78 |      |        |
|               |                                  | 256-QAM    | -27.97                  | 10.87                     | 10.25              | 2.54 | H    |        | 0.072 | 18.58 |      |        |
| 2567.5        |                                  | PI/2 BPSK  | -26.46                  | 12.62                     | 10.27              | 2.65 | H    | < 2.00 | 0.106 | 20.24 | 1    | 1      |
|               |                                  | QPSK       | -26.56                  | 12.52                     | 10.27              | 2.65 | H    |        | 0.103 | 20.14 |      |        |
|               |                                  | 16-QAM     | -27.13                  | 11.95                     | 10.27              | 2.65 | H    |        | 0.091 | 19.57 |      |        |
|               |                                  | 64-QAM     | -28.91                  | 10.17                     | 10.27              | 2.65 | H    |        | 0.060 | 17.79 |      |        |
|               |                                  | 256-QAM    | -31.06                  | 8.02                      | 10.27              | 2.65 | H    |        | 0.037 | 15.64 |      |        |

| Freq<br>(MHz) | Mod/<br>Bandwidth<br>[SCS (kHz)] | Modulation | Measured<br>Level (dBm) | Substitute Level<br>(dBm) | Ant. Gain<br>(dBi) | C.L  | Pol. | Limit  | EIRP   |       | RB    |        |    |
|---------------|----------------------------------|------------|-------------------------|---------------------------|--------------------|------|------|--------|--------|-------|-------|--------|----|
|               |                                  |            |                         |                           |                    |      |      | W      | W      | dBm   | Size  | Offset |    |
| 2505.0        | Sub6 n7/<br>10 MHz<br>[15 kHz]   | PI/2 BPSK  | -23.78                  | 14.67                     | 10.26              | 2.51 | H    | < 2.00 | 0.175  | 22.42 | 1     | 50     |    |
|               |                                  | QPSK       | -23.84                  | 14.61                     | 10.26              | 2.51 | H    |        | 0.172  | 22.36 |       |        |    |
|               |                                  | 16-QAM     | -24.87                  | 13.58                     | 10.26              | 2.51 | H    |        | 0.136  | 21.33 |       |        |    |
|               |                                  | 64-QAM     | -26.26                  | 12.19                     | 10.26              | 2.51 | H    |        | 0.099  | 19.94 |       |        |    |
|               |                                  | 256-QAM    | -28.58                  | 9.87                      | 10.26              | 2.51 | H    |        | 0.058  | 17.62 |       |        |    |
| 2535.0        |                                  | PI/2 BPSK  | -23.43                  | 15.41                     | 10.25              | 2.54 | H    |        | < 2.00 | 0.205 | 23.12 | 1      | 26 |
|               |                                  | QPSK       | -25.49                  | 13.35                     | 10.25              | 2.54 | H    |        |        | 0.128 | 21.06 |        |    |
|               |                                  | 16-QAM     | -24.02                  | 14.82                     | 10.25              | 2.54 | H    |        |        | 0.179 | 22.53 |        |    |
|               |                                  | 64-QAM     | -25.34                  | 13.50                     | 10.25              | 2.54 | H    |        |        | 0.132 | 21.21 |        |    |
|               |                                  | 256-QAM    | -28.09                  | 10.75                     | 10.25              | 2.54 | H    |        |        | 0.070 | 18.46 |        |    |
| 2565.0        |                                  | PI/2 BPSK  | -25.50                  | 13.56                     | 10.26              | 2.62 | H    | < 2.00 | 0.132  | 21.20 | 1     | 1      |    |
|               |                                  | QPSK       | -25.72                  | 13.34                     | 10.26              | 2.62 | H    |        | 0.125  | 20.98 |       |        |    |
|               |                                  | 16-QAM     | -26.60                  | 12.46                     | 10.26              | 2.62 | H    |        | 0.102  | 20.10 |       |        |    |
|               |                                  | 64-QAM     | -28.15                  | 10.91                     | 10.26              | 2.62 | H    |        | 0.072  | 18.55 |       |        |    |
|               |                                  | 256-QAM    | -30.45                  | 8.61                      | 10.26              | 2.62 | H    |        | 0.042  | 16.25 |       |        |    |

| Freq<br>(MHz) | Mod/<br>Bandwidth<br>[SCS (kHz)] | Modulation | Measured<br>Level (dBm) | Substitute Level<br>(dBm) | Ant. Gain<br>(dBi) | C.L  | Pol. | Limit  | EIRP  |       | RB   |        |
|---------------|----------------------------------|------------|-------------------------|---------------------------|--------------------|------|------|--------|-------|-------|------|--------|
|               |                                  |            |                         |                           |                    |      |      | W      | W     | dBm   | Size | Offset |
| 2507.5        |                                  | PI/2 BPSK  | -23.48                  | 15.05                     | 10.26              | 2.51 | H    |        | 0.191 | 22.80 | 1    | 77     |
|               |                                  | QPSK       | -23.61                  | 14.92                     | 10.26              | 2.51 | H    |        | 0.185 | 22.67 |      |        |
|               |                                  | 16-QAM     | -24.35                  | 14.18                     | 10.26              | 2.51 | H    |        | 0.156 | 21.93 |      |        |
|               |                                  | 64-QAM     | -25.97                  | 12.56                     | 10.26              | 2.51 | H    |        | 0.107 | 20.31 |      |        |
|               |                                  | 256-QAM    | -28.27                  | 10.26                     | 10.26              | 2.51 | H    |        | 0.063 | 18.01 |      |        |
| 2535.0        | Sub6 n7/<br>15 MHz<br>[15 kHz]   | PI/2 BPSK  | -23.42                  | 15.42                     | 10.25              | 2.54 | H    | < 2.00 | 0.205 | 23.13 | 1    | 1      |
|               |                                  | QPSK       | -23.47                  | 15.37                     | 10.25              | 2.54 | H    |        | 0.203 | 23.08 |      |        |
|               |                                  | 16-QAM     | -24.19                  | 14.65                     | 10.25              | 2.54 | H    |        | 0.172 | 22.36 |      |        |
|               |                                  | 64-QAM     | -25.82                  | 13.02                     | 10.25              | 2.54 | H    |        | 0.118 | 20.73 |      |        |
|               |                                  | 256-QAM    | -28.19                  | 10.65                     | 10.25              | 2.54 | H    |        | 0.069 | 18.36 |      |        |
| 2562.5        |                                  | PI/2 BPSK  | -25.40                  | 13.66                     | 10.26              | 2.62 | H    |        | 0.135 | 21.30 | 1    | 1      |
|               |                                  | QPSK       | -25.48                  | 13.58                     | 10.26              | 2.62 | H    |        | 0.132 | 21.22 |      |        |
|               |                                  | 16-QAM     | -26.32                  | 12.74                     | 10.26              | 2.62 | H    |        | 0.109 | 20.38 |      |        |
|               |                                  | 64-QAM     | -27.78                  | 11.28                     | 10.26              | 2.62 | H    |        | 0.078 | 18.92 |      |        |
|               |                                  | 256-QAM    | -29.96                  | 9.10                      | 10.26              | 2.62 | H    |        | 0.047 | 16.74 |      |        |

| Freq<br>(MHz) | Mod/<br>Bandwidth<br>[SCS (kHz)] | Modulation | Measured<br>Level (dBm) | Substitute Level<br>(dBm) | Ant. Gain<br>(dBi) | C.L  | Pol. | Limit  | EIRP  |       | RB   |        |
|---------------|----------------------------------|------------|-------------------------|---------------------------|--------------------|------|------|--------|-------|-------|------|--------|
|               |                                  |            |                         |                           |                    |      |      | W      | W     | dBm   | Size | Offset |
| 2510.0        |                                  | PI/2 BPSK  | -23.48                  | 15.05                     | 10.26              | 2.51 | H    | < 2.00 | 0.190 | 22.80 | 1    | 104    |
|               |                                  | QPSK       | -23.52                  | 15.01                     | 10.26              | 2.51 | H    |        | 0.189 | 22.76 |      |        |
|               |                                  | 16-QAM     | -24.48                  | 14.05                     | 10.26              | 2.51 | H    |        | 0.151 | 21.80 |      |        |
|               |                                  | 64-QAM     | -25.97                  | 12.56                     | 10.26              | 2.51 | H    |        | 0.107 | 20.31 |      |        |
|               |                                  | 256-QAM    | -28.12                  | 10.41                     | 10.26              | 2.51 | H    |        | 0.065 | 18.16 |      |        |
| 2535.0        | Sub6 n7/<br>20 MHz<br>[15 kHz]   | PI/2 BPSK  | -23.34                  | 15.50                     | 10.25              | 2.54 | H    | < 2.00 | 0.210 | 23.21 | 1    | 1      |
|               |                                  | QPSK       | -23.42                  | 15.42                     | 10.25              | 2.54 | H    |        | 0.206 | 23.13 |      |        |
|               |                                  | 16-QAM     | -24.16                  | 14.68                     | 10.25              | 2.54 | H    |        | 0.174 | 22.39 |      |        |
|               |                                  | 64-QAM     | -25.75                  | 13.09                     | 10.25              | 2.54 | H    |        | 0.120 | 20.80 |      |        |
|               |                                  | 256-QAM    | -27.96                  | 10.88                     | 10.25              | 2.54 | H    |        | 0.072 | 18.59 |      |        |
| 2560.0        |                                  | PI/2 BPSK  | -24.68                  | 14.36                     | 10.26              | 2.59 | H    | < 2.00 | 0.160 | 22.03 | 1    | 1      |
|               |                                  | QPSK       | -24.69                  | 14.35                     | 10.26              | 2.59 | H    |        | 0.159 | 22.02 |      |        |
|               |                                  | 16-QAM     | -25.75                  | 13.29                     | 10.26              | 2.59 | H    |        | 0.125 | 20.96 |      |        |
|               |                                  | 64-QAM     | -27.20                  | 11.84                     | 10.26              | 2.59 | H    |        | 0.089 | 19.51 |      |        |
|               |                                  | 256-QAM    | -29.36                  | 9.68                      | 10.26              | 2.59 | H    |        | 0.054 | 17.35 |      |        |

| Freq<br>(MHz) | Mod/<br>Bandwidth<br>[SCS (kHz)] | Modulation | Measured<br>Level (dBm) | Substitute Level<br>(dBm) | Ant. Gain<br>(dBi) | C.L  | Pol. | Limit  | EIRP  |       | RB   |        |
|---------------|----------------------------------|------------|-------------------------|---------------------------|--------------------|------|------|--------|-------|-------|------|--------|
|               |                                  |            |                         |                           |                    |      |      | W      | W     | dBm   | Size | Offset |
| 2512.5        | Sub6 n7/<br>25 MHz<br>[15 kHz]   | PI/2 BPSK  | -23.58                  | 14.99                     | 10.26              | 2.53 | H    | < 2.00 | 0.187 | 22.72 | 1    | 131    |
|               |                                  | QPSK       | -23.75                  | 14.82                     | 10.26              | 2.53 | H    |        | 0.180 | 22.55 |      |        |
|               |                                  | 16-QAM     | -24.53                  | 14.04                     | 10.26              | 2.53 | H    |        | 0.150 | 21.77 |      |        |
|               |                                  | 64-QAM     | -26.15                  | 12.42                     | 10.26              | 2.53 | H    |        | 0.104 | 20.15 |      |        |
|               |                                  | 256-QAM    | -28.21                  | 10.36                     | 10.26              | 2.53 | H    |        | 0.064 | 18.09 |      |        |
| 2535.0        |                                  | PI/2 BPSK  | -23.64                  | 15.20                     | 10.25              | 2.54 | H    |        | 0.196 | 22.91 | 1    | 1      |
|               |                                  | QPSK       | -23.77                  | 15.07                     | 10.25              | 2.54 | H    |        | 0.190 | 22.78 |      |        |
|               |                                  | 16-QAM     | -24.68                  | 14.16                     | 10.25              | 2.54 | H    |        | 0.154 | 21.87 |      |        |
|               |                                  | 64-QAM     | -26.21                  | 12.63                     | 10.25              | 2.54 | H    |        | 0.108 | 20.34 |      |        |
|               |                                  | 256-QAM    | -28.36                  | 10.48                     | 10.25              | 2.54 | H    |        | 0.066 | 18.19 |      |        |
| 2557.5        |                                  | PI/2 BPSK  | -24.66                  | 14.38                     | 10.26              | 2.59 | H    |        | 0.160 | 22.05 | 1    | 1      |
|               |                                  | QPSK       | -24.68                  | 14.36                     | 10.26              | 2.59 | H    |        | 0.159 | 22.03 |      |        |
|               |                                  | 16-QAM     | -25.48                  | 13.56                     | 10.26              | 2.59 | H    |        | 0.133 | 21.23 |      |        |
|               |                                  | 64-QAM     | -27.10                  | 11.94                     | 10.26              | 2.59 | H    |        | 0.091 | 19.61 |      |        |
|               |                                  | 256-QAM    | -29.42                  | 9.62                      | 10.26              | 2.59 | H    |        | 0.054 | 17.29 |      |        |

| Freq<br>(MHz) | Mod/<br>Bandwidth<br>[SCS (kHz)] | Modulation | Measured<br>Level (dBm) | Substitute Level<br>(dBm) | Ant. Gain<br>(dBi) | C.L  | Pol. | Limit  | EIRP  |       | RB   |        |
|---------------|----------------------------------|------------|-------------------------|---------------------------|--------------------|------|------|--------|-------|-------|------|--------|
|               |                                  |            |                         |                           |                    |      |      | W      | W     | dBm   | Size | Offset |
| 2515.0        | Sub6 n7/<br>30 MHz<br>[15 kHz]   | PI/2 BPSK  | -23.96                  | 14.61                     | 10.26              | 2.53 | H    | < 2.00 | 0.171 | 22.34 | 1    | 80     |
|               |                                  | QPSK       | -24.05                  | 14.52                     | 10.26              | 2.53 | H    |        | 0.168 | 22.25 |      |        |
|               |                                  | 16-QAM     | -24.93                  | 13.64                     | 10.26              | 2.53 | H    |        | 0.137 | 21.37 |      |        |
|               |                                  | 64-QAM     | -26.70                  | 11.87                     | 10.26              | 2.53 | H    |        | 0.091 | 19.60 |      |        |
|               |                                  | 256-QAM    | -28.69                  | 9.88                      | 10.26              | 2.53 | H    |        | 0.058 | 17.61 |      |        |
| 2535.0        |                                  | PI/2 BPSK  | -23.96                  | 14.88                     | 10.25              | 2.54 | H    |        | 0.181 | 22.59 | 1    | 1      |
|               |                                  | QPSK       | -24.07                  | 14.77                     | 10.25              | 2.54 | H    |        | 0.177 | 22.48 |      |        |
|               |                                  | 16-QAM     | -25.01                  | 13.83                     | 10.25              | 2.54 | H    |        | 0.143 | 21.54 |      |        |
|               |                                  | 64-QAM     | -26.51                  | 12.33                     | 10.25              | 2.54 | H    |        | 0.101 | 20.04 |      |        |
|               |                                  | 256-QAM    | -28.68                  | 10.16                     | 10.25              | 2.54 | H    |        | 0.061 | 17.87 |      |        |
| 2555.0        |                                  | PI/2 BPSK  | -24.18                  | 14.85                     | 10.25              | 2.56 | H    |        | 0.180 | 22.54 | 1    | 1      |
|               |                                  | QPSK       | -24.44                  | 14.59                     | 10.25              | 2.56 | H    |        | 0.169 | 22.28 |      |        |
|               |                                  | 16-QAM     | -25.34                  | 13.69                     | 10.25              | 2.56 | H    |        | 0.138 | 21.38 |      |        |
|               |                                  | 64-QAM     | -26.86                  | 12.17                     | 10.25              | 2.56 | H    |        | 0.097 | 19.86 |      |        |
|               |                                  | 256-QAM    | -29.20                  | 9.83                      | 10.25              | 2.56 | H    |        | 0.056 | 17.52 |      |        |

| Freq<br>(MHz) | Mod/<br>Bandwidth<br>[SCS (kHz)] | Modulation | Measured<br>Level (dBm) | Substitute Level<br>(dBm) | Ant. Gain<br>(dBi) | C.L  | Pol. | Limit  | EIRP  |       | RB   |        |
|---------------|----------------------------------|------------|-------------------------|---------------------------|--------------------|------|------|--------|-------|-------|------|--------|
|               |                                  |            |                         |                           |                    |      |      | W      | W     | dBm   | Size | Offset |
| 2520.0        | Sub6 n7/<br>40 MHz<br>[15 kHz]   | PI/2 BPSK  | -23.77                  | 14.83                     | 10.26              | 2.54 | H    | < 2.00 | 0.180 | 22.55 | 1    | 108    |
|               |                                  | QPSK       | -23.97                  | 14.63                     | 10.26              | 2.54 | H    |        | 0.172 | 22.35 |      |        |
|               |                                  | 16-QAM     | -24.95                  | 13.65                     | 10.26              | 2.54 | H    |        | 0.137 | 21.37 |      |        |
|               |                                  | 64-QAM     | -26.49                  | 12.11                     | 10.26              | 2.54 | H    |        | 0.096 | 19.83 |      |        |
|               |                                  | 256-QAM    | -28.75                  | 9.85                      | 10.26              | 2.54 | H    |        | 0.057 | 17.57 |      |        |
| 2535.0        |                                  | PI/2 BPSK  | -23.71                  | 15.13                     | 10.25              | 2.54 | H    |        | 0.192 | 22.84 | 1    | 108    |
|               |                                  | QPSK       | -23.89                  | 14.95                     | 10.25              | 2.54 | H    |        | 0.184 | 22.66 |      |        |
|               |                                  | 16-QAM     | -24.53                  | 14.31                     | 10.25              | 2.54 | H    |        | 0.159 | 22.02 |      |        |
|               |                                  | 64-QAM     | -26.13                  | 12.71                     | 10.25              | 2.54 | H    |        | 0.110 | 20.42 |      |        |
|               |                                  | 256-QAM    | -28.43                  | 10.41                     | 10.25              | 2.54 | H    |        | 0.065 | 18.12 |      |        |
| 2550.0        |                                  | PI/2 BPSK  | -23.76                  | 15.25                     | 10.24              | 2.53 | H    |        | 0.198 | 22.96 | 1    | 1      |
|               |                                  | QPSK       | -23.90                  | 15.11                     | 10.24              | 2.53 | H    |        | 0.192 | 22.82 |      |        |
|               |                                  | 16-QAM     | -24.57                  | 14.44                     | 10.24              | 2.53 | H    |        | 0.164 | 22.15 |      |        |
|               |                                  | 64-QAM     | -26.16                  | 12.85                     | 10.24              | 2.53 | H    |        | 0.114 | 20.56 |      |        |
|               |                                  | 256-QAM    | -28.46                  | 10.55                     | 10.24              | 2.53 | H    |        | 0.067 | 18.26 |      |        |

| Freq<br>(MHz) | Mod/<br>Bandwidth<br>[SCS (kHz)] | Modulation | Measured<br>Level (dBm) | Substitute Level<br>(dBm) | Ant. Gain<br>(dBi) | C.L  | Pol. | Limit  | EIRP  |       | RB   |        |
|---------------|----------------------------------|------------|-------------------------|---------------------------|--------------------|------|------|--------|-------|-------|------|--------|
|               |                                  |            |                         |                           |                    |      |      | W      | W     | dBm   | Size | Offset |
| 2525.0        |                                  | PI/2 BPSK  | -23.41                  | 15.27                     | 10.25              | 2.54 | H    |        | 0.199 | 22.98 | 1    | 135    |
|               |                                  | QPSK       | -23.52                  | 15.16                     | 10.25              | 2.54 | H    |        | 0.194 | 22.87 |      |        |
|               |                                  | 16-QAM     | -24.34                  | 14.34                     | 10.25              | 2.54 | H    |        | 0.160 | 22.05 |      |        |
|               |                                  | 64-QAM     | -25.99                  | 12.69                     | 10.25              | 2.54 | H    |        | 0.110 | 20.40 |      |        |
|               |                                  | 256-QAM    | -28.18                  | 10.50                     | 10.25              | 2.54 | H    |        | 0.066 | 18.21 |      |        |
| 2535.0        | Sub6 n7/<br>50 MHz<br>[15 kHz]   | PI/2 BPSK  | -23.78                  | 15.06                     | 10.25              | 2.54 | H    | < 2.00 | 0.189 | 22.77 | 1    | 135    |
|               |                                  | QPSK       | -23.96                  | 14.88                     | 10.25              | 2.54 | H    |        | 0.182 | 22.59 |      |        |
|               |                                  | 16-QAM     | -24.55                  | 14.29                     | 10.25              | 2.54 | H    |        | 0.158 | 22.00 |      |        |
|               |                                  | 64-QAM     | -26.15                  | 12.69                     | 10.25              | 2.54 | H    |        | 0.110 | 20.40 |      |        |
|               |                                  | 256-QAM    | -28.42                  | 10.42                     | 10.25              | 2.54 | H    |        | 0.065 | 18.13 |      |        |
| 2545.0        |                                  | PI/2 BPSK  | -23.67                  | 15.29                     | 10.25              | 2.53 | H    |        | 0.200 | 23.01 | 1    | 1      |
|               |                                  | QPSK       | -23.72                  | 15.24                     | 10.25              | 2.53 | H    |        | 0.198 | 22.96 |      |        |
|               |                                  | 16-QAM     | -24.68                  | 14.28                     | 10.25              | 2.53 | H    |        | 0.158 | 22.00 |      |        |
|               |                                  | 64-QAM     | -26.19                  | 12.77                     | 10.25              | 2.53 | H    |        | 0.112 | 20.49 |      |        |
|               |                                  | 256-QAM    | -28.46                  | 10.50                     | 10.25              | 2.53 | H    |        | 0.066 | 18.22 |      |        |

## 8.2 RADIATED SPURIOUS EMISSIONS

|             |                  |
|-------------|------------------|
| NR Band:    | <u>N7</u>        |
| Bandwidth:  | <u>5 MHz</u>     |
| Modulation: | <u>PI/2 BPSK</u> |
| Distance:   | <u>1 meters</u>  |
| SCS:        | <u>15 kHz</u>    |

| Ch                 | Freq (MHz) | Measured Level (dBm) | Ant. Gain (dBi) | Substitute Level (dBm) | C.L  | Pol | Result (dBm) | Limit (dBm) | RB   |        |
|--------------------|------------|----------------------|-----------------|------------------------|------|-----|--------------|-------------|------|--------|
|                    |            |                      |                 |                        |      |     |              |             | Size | Offset |
| 500500<br>(2502.5) | 5 005.00   | -55.76               | 10.91           | -62.30                 | 3.71 | H   | -55.10       | -25.00      | 1    | 23     |
|                    | 7 507.50   | -56.23               | 11.59           | -58.34                 | 4.60 | H   | -51.35       |             |      |        |
|                    | 10 010.00  | -55.02               | 11.39           | -54.61                 | 5.47 | H   | -48.69       |             |      |        |
|                    | 12 512.50  | -56.99               | 13.16           | -53.47                 | 6.09 | V   | -46.40       |             |      |        |
|                    | 15 015.00  | -63.94               | 14.28           | -45.82                 | 6.76 | H   | -38.30       |             |      |        |
| 507000<br>(2535.0) | 5 070.00   | -55.33               | 10.92           | -62.09                 | 3.80 | V   | -54.97       |             | 1    | 12     |
|                    | 7 605.00   | -54.66               | 11.66           | -56.85                 | 4.64 | V   | -49.83       |             |      |        |
|                    | 10 140.00  | -55.24               | 11.34           | -54.60                 | 5.48 | V   | -48.74       |             |      |        |
|                    | 12 675.00  | -56.13               | 12.88           | -52.10                 | 6.24 | V   | -45.46       |             |      |        |
|                    | 15 210.00  | -62.57               | 14.81           | -44.15                 | 6.81 | V   | -36.15       |             |      |        |
| 513500<br>(2567.5) | 5 135.00   | -56.07               | 11.04           | -63.18                 | 3.81 | V   | -55.95       |             | 1    | 1      |
|                    | 7 702.50   | -54.58               | 11.56           | -56.24                 | 4.66 | H   | -49.34       |             |      |        |
|                    | 10 270.00  | -54.14               | 11.46           | -53.50                 | 5.57 | V   | -47.61       |             |      |        |
|                    | 12 837.50  | -56.03               | 12.73           | -51.41                 | 6.24 | V   | -44.92       |             |      |        |
|                    | 15 405.00  | -62.21               | 15.34           | -43.06                 | 6.85 | H   | -34.57       |             |      |        |

☐ NR Band: N7  
☐ Bandwidth: 10 MHz  
☐ Modulation: PI/2 BPSK  
☐ Distance: 1 meters  
☐ SCS: 15 kHz

| Ch                 | Freq (MHz) | Measured Level (dBm) | Ant. Gain (dBi) | Substitute Level (dBm) | C.L  | Pol | Result (dBm) | Limit (dBm) | RB   |        |
|--------------------|------------|----------------------|-----------------|------------------------|------|-----|--------------|-------------|------|--------|
|                    |            |                      |                 |                        |      |     |              |             | Size | Offset |
| 501000<br>(2505.0) | 5 010.00   | -55.61               | 10.91           | -62.20                 | 3.72 | H   | -55.01       | -25.00      | 1    | 50     |
|                    | 7 515.00   | -56.18               | 11.59           | -58.42                 | 4.60 | H   | -51.43       |             |      |        |
|                    | 10 020.00  | -55.23               | 11.39           | -54.38                 | 5.47 | V   | -48.46       |             |      |        |
|                    | 12 525.00  | -56.91               | 13.14           | -53.43                 | 6.09 | V   | -46.38       |             |      |        |
|                    | 15 030.00  | -63.87               | 14.32           | -46.06                 | 6.73 | H   | -38.47       |             |      |        |
| 507000<br>(2535.0) | 5 070.00   | -55.31               | 10.92           | -62.07                 | 3.80 | V   | -54.95       |             | 1    | 26     |
|                    | 7 605.00   | -54.61               | 11.66           | -56.80                 | 4.64 | V   | -49.78       |             |      |        |
|                    | 10 140.00  | -55.20               | 11.34           | -54.56                 | 5.48 | V   | -48.70       |             |      |        |
|                    | 12 675.00  | -56.22               | 12.88           | -52.19                 | 6.24 | V   | -45.55       |             |      |        |
|                    | 15 210.00  | -62.84               | 14.81           | -44.42                 | 6.81 | V   | -36.42       |             |      |        |
| 513000<br>(2565.0) | 5 130.00   | -56.13               | 11.02           | -63.04                 | 3.81 | V   | -55.83       |             | 1    | 1      |
|                    | 7 695.00   | -54.51               | 11.58           | -56.34                 | 4.66 | H   | -49.42       |             |      |        |
|                    | 10 260.00  | -54.56               | 11.44           | -53.89                 | 5.56 | V   | -48.01       |             |      |        |
|                    | 12 825.00  | -56.18               | 12.74           | -51.83                 | 6.21 | V   | -45.30       |             |      |        |
|                    | 15 390.00  | -62.35               | 15.30           | -43.12                 | 6.85 | H   | -34.67       |             |      |        |

☐ NR Band: N7  
☐ Bandwidth: 15 MHz  
☐ Modulation: PI/2 BPSK  
☐ Distance: 1 meters  
☐ SCS: 15 kHz

| Ch                 | Freq (MHz) | Measured Level (dBm) | Ant. Gain (dBi) | Substitute Level (dBm) | C.L  | Pol | Result (dBm) | Limit (dBm) | RB   |        |
|--------------------|------------|----------------------|-----------------|------------------------|------|-----|--------------|-------------|------|--------|
|                    |            |                      |                 |                        |      |     |              |             | Size | Offset |
| 501500<br>(2507.5) | 5 015.00   | -55.23               | 10.91           | -61.78                 | 3.70 | V   | -54.57       | -25.00      | 1    | 77     |
|                    | 7 522.50   | -54.16               | 11.60           | -56.54                 | 4.61 | V   | -49.55       |             |      |        |
|                    | 10 030.00  | -54.51               | 11.39           | -53.86                 | 5.47 | V   | -47.94       |             |      |        |
|                    | 12 537.50  | -55.35               | 13.13           | -51.77                 | 6.13 | V   | -44.77       |             |      |        |
|                    | 15 045.00  | -62.35               | 14.35           | -44.46                 | 6.75 | V   | -36.86       |             |      |        |
| 507000<br>(2535.0) | 5 070.00   | -55.35               | 10.92           | -62.11                 | 3.80 | H   | -54.99       |             | 1    | 1      |
|                    | 7 605.00   | -54.41               | 11.66           | -56.60                 | 4.64 | H   | -49.58       |             |      |        |
|                    | 10 140.00  | -53.75               | 11.34           | -53.11                 | 5.48 | H   | -47.25       |             |      |        |
|                    | 12 675.00  | -56.61               | 12.88           | -52.58                 | 6.24 | H   | -45.94       |             |      |        |
|                    | 15 210.00  | -62.11               | 14.81           | -43.69                 | 6.81 | H   | -35.69       |             |      |        |
| 512500<br>(2562.5) | 5 125.00   | -54.41               | 11.01           | -61.42                 | 3.81 | V   | -54.22       |             | 1    | 1      |
|                    | 7 687.50   | -54.25               | 11.58           | -56.13                 | 4.66 | H   | -49.21       |             |      |        |
|                    | 10 250.00  | -54.61               | 11.42           | -54.24                 | 5.54 | V   | -48.36       |             |      |        |
|                    | 12 812.50  | -57.13               | 12.74           | -52.87                 | 6.20 | V   | -46.33       |             |      |        |
|                    | 15 375.00  | -62.67               | 15.26           | -43.44                 | 6.87 | V   | -35.05       |             |      |        |

☐ NR Band: N7  
☐ Bandwidth: 20 MHz  
☐ Modulation: PI/2 BPSK  
☐ Distance: 1 meters  
☐ SCS: 15 kHz

| Ch                 | Freq (MHz) | Measured Level (dBm) | Ant. Gain (dBi) | Substitute Level (dBm) | C.L  | Pol | Result (dBm) | Limit (dBm) | RB   |        |
|--------------------|------------|----------------------|-----------------|------------------------|------|-----|--------------|-------------|------|--------|
|                    |            |                      |                 |                        |      |     |              |             | Size | Offset |
| 502000<br>(2510.0) | 5 020.00   | -55.15               | 10.90           | -61.63                 | 3.69 | V   | -54.42       | -25.00      | 1    | 104    |
|                    | 7 530.00   | -54.11               | 11.61           | -56.52                 | 4.60 | V   | -49.51       |             |      |        |
|                    | 10 040.00  | -54.33               | 11.38           | -53.81                 | 5.49 | V   | -47.92       |             |      |        |
|                    | 12 550.00  | -55.32               | 13.11           | -51.68                 | 6.19 | V   | -44.76       |             |      |        |
|                    | 15 060.00  | -62.20               | 14.39           | -44.24                 | 6.78 | V   | -36.63       |             |      |        |
| 507000<br>(2535.0) | 5 070.00   | -54.85               | 10.92           | -61.61                 | 3.80 | H   | -54.49       |             | 1    | 1      |
|                    | 7 605.00   | -54.35               | 11.66           | -56.54                 | 4.64 | H   | -49.52       |             |      |        |
|                    | 10 140.00  | -53.74               | 11.34           | -53.10                 | 5.48 | H   | -47.24       |             |      |        |
|                    | 12 675.00  | -56.12               | 12.88           | -52.09                 | 6.24 | H   | -45.45       |             |      |        |
|                    | 15 210.00  | -62.05               | 14.81           | -43.63                 | 6.81 | H   | -35.63       |             |      |        |
| 512000<br>(2560.0) | 5 120.00   | -54.37               | 11.00           | -61.48                 | 3.81 | V   | -54.29       |             | 1    | 1      |
|                    | 7 680.00   | -53.99               | 11.60           | -55.96                 | 4.70 | H   | -49.06       |             |      |        |
|                    | 10 240.00  | -54.45               | 11.41           | -54.02                 | 5.54 | V   | -48.15       |             |      |        |
|                    | 12 800.00  | -57.06               | 12.75           | -52.80                 | 6.21 | V   | -46.26       |             |      |        |
|                    | 15 360.00  | -62.21               | 15.21           | -42.65                 | 6.88 | V   | -34.32       |             |      |        |

☐ NR Band: N7  
☐ Bandwidth: 25 MHz  
☐ Modulation: PI/2 BPSK  
☐ Distance: 1 meters  
☐ SCS: 15 kHz

| Ch                 | Freq (MHz) | Measured Level (dBm) | Ant. Gain (dBi) | Substitute Level (dBm) | C.L  | Pol | Result (dBm) | Limit (dBm) | RB   |        |
|--------------------|------------|----------------------|-----------------|------------------------|------|-----|--------------|-------------|------|--------|
|                    |            |                      |                 |                        |      |     |              |             | Size | Offset |
| 502500<br>(2512.5) | 5 025.00   | -54.53               | 10.90           | -61.24                 | 3.68 | H   | -54.02       | -25.00      | 1    | 131    |
|                    | 7 537.50   | -54.53               | 11.62           | -56.97                 | 4.61 | V   | -49.96       |             |      |        |
|                    | 10 050.00  | -53.59               | 11.38           | -53.15                 | 5.48 | V   | -47.25       |             |      |        |
|                    | 12 562.50  | -56.32               | 13.09           | -52.66                 | 6.24 | H   | -45.81       |             |      |        |
|                    | 15 075.00  | -62.57               | 14.42           | -44.53                 | 6.82 | H   | -36.93       |             |      |        |
| 507000<br>(2535.0) | 5 070.00   | -55.60               | 10.92           | -62.36                 | 3.80 | H   | -55.24       |             | 1    | 1      |
|                    | 7 605.00   | -54.27               | 11.66           | -56.46                 | 4.64 | H   | -49.44       |             |      |        |
|                    | 10 140.00  | -53.68               | 11.34           | -53.04                 | 5.48 | V   | -47.18       |             |      |        |
|                    | 12 675.00  | -57.52               | 12.88           | -53.49                 | 6.24 | H   | -46.85       |             |      |        |
|                    | 15 210.00  | -62.26               | 14.81           | -43.84                 | 6.81 | H   | -35.84       |             |      |        |
| 511500<br>(2557.5) | 5 115.00   | -55.12               | 10.98           | -62.25                 | 3.80 | V   | -55.07       |             | 1    | 1      |
|                    | 7 672.50   | -53.81               | 11.60           | -55.78                 | 4.70 | V   | -48.88       |             |      |        |
|                    | 10 230.00  | -53.07               | 11.39           | -52.60                 | 5.54 | V   | -46.75       |             |      |        |
|                    | 12 787.50  | -55.80               | 12.76           | -51.53                 | 6.22 | V   | -44.99       |             |      |        |
|                    | 15 345.00  | -63.59               | 15.17           | -44.51                 | 6.86 | V   | -36.20       |             |      |        |

☐ NR Band: N7  
☐ Bandwidth: 30 MHz  
☐ Modulation: PI/2 BPSK  
☐ Distance: 1 meters  
☐ SCS: 15 kHz

| Ch                 | Freq (MHz) | Measured Level (dBm) | Ant. Gain (dBi) | Substitute Level (dBm) | C.L  | Pol | Result (dBm) | Limit (dBm) | RB   |        |
|--------------------|------------|----------------------|-----------------|------------------------|------|-----|--------------|-------------|------|--------|
|                    |            |                      |                 |                        |      |     |              |             | Size | Offset |
| 503000<br>(2515.0) | 5 030.00   | -54.19               | 10.90           | -61.13                 | 3.67 | V   | -53.90       | -25.00      | 1    | 80     |
|                    | 7 545.00   | -54.19               | 11.63           | -56.61                 | 4.62 | H   | -49.60       |             |      |        |
|                    | 10 060.00  | -53.47               | 11.37           | -52.84                 | 5.48 | V   | -46.95       |             |      |        |
|                    | 12 575.00  | -56.11               | 13.07           | -52.44                 | 6.25 | H   | -45.62       |             |      |        |
|                    | 15 090.00  | -62.75               | 14.46           | -45.03                 | 6.81 | V   | -37.38       |             |      |        |
| 507000<br>(2535.0) | 5 070.00   | -55.26               | 10.92           | -62.02                 | 3.80 | H   | -54.90       |             | 1    | 1      |
|                    | 7 605.00   | -55.14               | 11.66           | -57.33                 | 4.64 | V   | -50.31       |             |      |        |
|                    | 10 140.00  | -53.78               | 11.34           | -53.14                 | 5.48 | H   | -47.28       |             |      |        |
|                    | 12 675.00  | -55.84               | 12.88           | -51.81                 | 6.24 | H   | -45.17       |             |      |        |
|                    | 15 210.00  | -61.79               | 14.81           | -43.37                 | 6.81 | H   | -35.37       |             |      |        |
| 511000<br>(2555.0) | 5 110.00   | -54.19               | 10.97           | -61.35                 | 3.79 | V   | -54.17       |             | 1    | 1      |
|                    | 7 665.00   | -53.76               | 11.62           | -55.73                 | 4.70 | H   | -48.81       |             |      |        |
|                    | 10 220.00  | -53.74               | 11.38           | -53.28                 | 5.54 | H   | -47.44       |             |      |        |
|                    | 12 775.00  | -56.31               | 12.76           | -52.11                 | 6.23 | V   | -45.58       |             |      |        |
|                    | 15 330.00  | -62.98               | 15.13           | -44.23                 | 6.82 | H   | -35.92       |             |      |        |

☐ NR Band: N7  
☐ Bandwidth: 40 MHz  
☐ Modulation: PI/2 BPSK  
☐ Distance: 1 meters  
☐ SCS: 15 kHz

| Ch                 | Freq (MHz) | Measured Level (dBm) | Ant. Gain (dBi) | Substitute Level (dBm) | C.L  | Pol | Result (dBm) | Limit (dBm) | RB   |        |
|--------------------|------------|----------------------|-----------------|------------------------|------|-----|--------------|-------------|------|--------|
|                    |            |                      |                 |                        |      |     |              |             | Size | Offset |
| 504000<br>(2520.0) | 5 040.00   | -53.46               | 10.90           | -60.13                 | 3.68 | V   | -52.91       | -25.00      | 1    | 108    |
|                    | 7 560.00   | -54.67               | 11.64           | -56.86                 | 4.64 | H   | -49.86       |             |      |        |
|                    | 10 080.00  | -54.57               | 11.37           | -54.20                 | 5.47 | H   | -48.30       |             |      |        |
|                    | 12 600.00  | -55.72               | 13.03           | -51.94                 | 6.18 | V   | -45.09       |             |      |        |
|                    | 15 120.00  | -62.55               | 14.54           | -44.54                 | 6.80 | V   | -36.80       |             |      |        |
| 507000<br>(2535.0) | 5 070.00   | -53.23               | 10.92           | -59.99                 | 3.80 | H   | -52.87       |             | 1    | 108    |
|                    | 7 605.00   | -53.71               | 11.66           | -55.90                 | 4.64 | H   | -48.88       |             |      |        |
|                    | 10 140.00  | -54.47               | 11.34           | -53.83                 | 5.48 | V   | -47.97       |             |      |        |
|                    | 12 675.00  | -56.98               | 12.88           | -52.95                 | 6.24 | H   | -46.31       |             |      |        |
|                    | 15 210.00  | -63.35               | 14.81           | -44.93                 | 6.81 | V   | -36.93       |             |      |        |
| 510000<br>(2550.0) | 5 100.00   | -54.77               | 10.95           | -61.49                 | 3.78 | V   | -54.32       |             | 1    | 1      |
|                    | 7 650.00   | -52.42               | 11.64           | -54.49                 | 4.68 | H   | -47.53       |             |      |        |
|                    | 10 200.00  | -54.95               | 11.35           | -54.43                 | 5.54 | V   | -48.62       |             |      |        |
|                    | 12 750.00  | -56.84               | 12.78           | -52.71                 | 6.23 | H   | -46.16       |             |      |        |
|                    | 15 300.00  | -63.27               | 15.06           | -44.46                 | 6.83 | V   | -36.23       |             |      |        |

☐ NR Band: N7  
☐ Bandwidth: 50 MHz  
☐ Modulation: PI/2 BPSK  
☐ Distance: 1 meters  
☐ SCS: 15 kHz

| Ch                 | Freq (MHz) | Measured Level (dBm) | Ant. Gain (dBi) | Substitute Level (dBm) | C.L  | Pol | Result (dBm) | Limit (dBm) | RB   |        |
|--------------------|------------|----------------------|-----------------|------------------------|------|-----|--------------|-------------|------|--------|
|                    |            |                      |                 |                        |      |     |              |             | Size | Offset |
| 505000<br>(2525.0) | 5 050.00   | -54.27               | 10.90           | -61.00                 | 3.73 | H   | -53.83       | -25.00      | 1    | 135    |
|                    | 7 575.00   | -55.52               | 11.65           | -57.76                 | 4.65 | V   | -50.76       |             |      |        |
|                    | 10 100.00  | -55.78               | 11.36           | -55.14                 | 5.46 | V   | -49.24       |             |      |        |
|                    | 12 625.00  | -56.11               | 12.98           | -52.20                 | 6.22 | V   | -45.44       |             |      |        |
|                    | 15 150.00  | -63.37               | 14.61           | -45.26                 | 6.80 | H   | -37.45       |             |      |        |
| 507000<br>(2535.0) | 5 070.00   | -54.80               | 10.92           | -61.56                 | 3.80 | H   | -54.44       |             | 1    | 135    |
|                    | 7 605.00   | -54.36               | 11.66           | -56.55                 | 4.64 | H   | -49.53       |             |      |        |
|                    | 10 140.00  | -53.37               | 11.34           | -52.73                 | 5.48 | H   | -46.87       |             |      |        |
|                    | 12 675.00  | -57.44               | 12.88           | -53.41                 | 6.24 | V   | -46.77       |             |      |        |
|                    | 15 210.00  | -63.36               | 14.81           | -44.94                 | 6.81 | V   | -36.94       |             |      |        |
| 509000<br>(2545.0) | 5 090.00   | -55.97               | 10.94           | -62.84                 | 3.78 | H   | -55.68       |             | 1    | 1      |
|                    | 7 635.00   | -53.36               | 11.64           | -55.46                 | 4.67 | H   | -48.49       |             |      |        |
|                    | 10 180.00  | -54.81               | 11.34           | -54.15                 | 5.51 | H   | -48.32       |             |      |        |
|                    | 12 725.00  | -57.08               | 12.81           | -53.39                 | 6.21 | V   | -46.79       |             |      |        |
|                    | 15 270.00  | -62.44               | 14.99           | -43.91                 | 6.82 | V   | -35.74       |             |      |        |

### 8.3 PEAK-TO-AVERAGE RATIO

| Band    | Band Width | Frequency (MHz) | Modulation | Resource Block Size | Resource Block Offset | Data (dB ) | Limit (dB) |
|---------|------------|-----------------|------------|---------------------|-----------------------|------------|------------|
| Sub6 n7 | 5 MHz      | 2535.0          | BPSK       | 25                  | 0                     | 4.42       | 13.00      |
|         |            |                 | QPSK       |                     |                       | 5.44       |            |
|         |            |                 | 16-QAM     |                     |                       | 6.34       |            |
|         |            |                 | 64-QAM     |                     |                       | 6.47       |            |
|         |            |                 | 256-QAM    |                     |                       | 6.84       |            |
|         | 10 MHz     |                 | BPSK       | 50                  |                       | 4.47       |            |
|         |            |                 | QPSK       |                     |                       | 5.55       |            |
|         |            |                 | 16-QAM     |                     |                       | 6.20       |            |
|         |            |                 | 64-QAM     |                     |                       | 6.49       |            |
|         |            |                 | 256-QAM    |                     |                       | 6.59       |            |
|         | 15 MHz     |                 | BPSK       | 75                  |                       | 4.56       |            |
|         |            |                 | QPSK       |                     |                       | 5.46       |            |
|         |            |                 | 16-QAM     |                     |                       | 6.35       |            |
|         |            |                 | 64-QAM     |                     |                       | 6.38       |            |
|         |            |                 | 256-QAM    |                     |                       | 6.56       |            |
|         | 20 MHz     |                 | BPSK       | 100                 |                       | 4.93       |            |
|         |            |                 | QPSK       |                     |                       | 5.57       |            |
|         |            |                 | 16-QAM     |                     |                       | 6.21       |            |
|         |            |                 | 64-QAM     |                     |                       | 6.50       |            |
|         |            |                 | 256-QAM    |                     |                       | 6.60       |            |
|         | 25 MHz     |                 | BPSK       | 128                 |                       | 4.61       |            |
|         |            |                 | QPSK       |                     |                       | 5.53       |            |
|         |            |                 | 16-QAM     |                     |                       | 6.30       |            |
|         |            |                 | 64-QAM     |                     |                       | 6.46       |            |
|         |            |                 | 256-QAM    |                     |                       | 6.55       |            |
|         | 30 MHz     |                 | BPSK       | 160                 |                       | 4.38       |            |
|         |            |                 | QPSK       |                     |                       | 5.63       |            |
|         |            |                 | 16-QAM     |                     |                       | 6.34       |            |
|         |            |                 | 64-QAM     |                     |                       | 6.41       |            |
|         |            |                 | 256-QAM    |                     |                       | 6.56       |            |
|         | 40 MHz     |                 | BPSK       | 216                 |                       | 4.55       |            |
|         |            |                 | QPSK       |                     |                       | 5.63       |            |
|         |            |                 | 16-QAM     |                     |                       | 6.33       |            |
|         |            |                 | 64-QAM     |                     |                       | 6.48       |            |
|         |            |                 | 256-QAM    |                     |                       | 6.57       |            |
|         | 50 MHz     |                 | BPSK       | 270                 |                       | 4.39       |            |
|         |            |                 | QPSK       |                     |                       | 5.67       |            |
|         |            |                 | 16-QAM     |                     |                       | 6.23       |            |
|         |            |                 | 64-QAM     |                     |                       | 6.59       |            |
|         |            |                 | 256-QAM    |                     |                       | 6.64       |            |

#### Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 74 ~ 113.
2. P.A.P.R is not required. These values are reported for information only.

#### 8.4 OCCUPIED BANDWIDTH

| Band    | Band Width | Frequency (MHz) | Modulation | Resource Block Size | Resource Block Offset | Data ( MHz ) |
|---------|------------|-----------------|------------|---------------------|-----------------------|--------------|
| Sub6 n7 | 5 MHz      | 2535.0          | BPSK       | 25                  | 0                     | 4.4801       |
|         |            |                 | QPSK       |                     |                       | 4.4906       |
|         |            |                 | 16-QAM     |                     |                       | 4.4935       |
|         |            |                 | 64-QAM     |                     |                       | 4.4903       |
|         |            |                 | 256-QAM    |                     |                       | 4.5014       |
|         | 10 MHz     |                 | BPSK       | 50                  |                       | 8.9718       |
|         |            |                 | QPSK       |                     |                       | 8.9441       |
|         |            |                 | 16-QAM     |                     |                       | 8.9328       |
|         |            |                 | 64-QAM     |                     |                       | 8.9708       |
|         |            |                 | 256-QAM    |                     |                       | 9.0033       |
|         | 15 MHz     |                 | BPSK       | 75                  |                       | 13.426       |
|         |            |                 | QPSK       |                     |                       | 13.466       |
|         |            |                 | 16-QAM     |                     |                       | 13.418       |
|         |            |                 | 64-QAM     |                     |                       | 13.393       |
|         |            |                 | 256-QAM    |                     |                       | 13.417       |
|         | 20 MHz     |                 | BPSK       | 100                 |                       | 17.900       |
|         |            |                 | QPSK       |                     |                       | 17.927       |
|         |            |                 | 16-QAM     |                     |                       | 17.958       |
|         |            |                 | 64-QAM     |                     |                       | 17.917       |
|         |            |                 | 256-QAM    |                     |                       | 17.888       |
|         | 25 MHz     |                 | BPSK       | 128                 |                       | 23.008       |
|         |            |                 | QPSK       |                     |                       | 22.899       |
|         |            |                 | 16-QAM     |                     |                       | 22.906       |
|         |            |                 | 64-QAM     |                     |                       | 22.926       |
|         |            |                 | 256-QAM    |                     |                       | 22.902       |
|         | 30 MHz     |                 | BPSK       | 160                 |                       | 28.634       |
|         |            |                 | QPSK       |                     |                       | 28.706       |
|         |            |                 | 16-QAM     |                     |                       | 28.595       |
|         |            |                 | 64-QAM     |                     |                       | 28.628       |
|         |            |                 | 256-QAM    |                     |                       | 28.611       |
|         | 40 MHz     |                 | BPSK       | 216                 |                       | 38.726       |
|         |            |                 | QPSK       |                     |                       | 38.651       |
|         |            |                 | 16-QAM     |                     |                       | 38.635       |
|         |            |                 | 64-QAM     |                     |                       | 38.713       |
|         |            |                 | 256-QAM    |                     |                       | 38.735       |
|         | 50 MHz     |                 | BPSK       | 270                 |                       | 48.380       |
|         |            |                 | QPSK       |                     |                       | 48.372       |
|         |            |                 | 16-QAM     |                     |                       | 48.288       |
|         |            |                 | 64-QAM     |                     |                       | 48.370       |
|         |            |                 | 256-QAM    |                     |                       | 48.295       |

**Note:**

1. Plots of the EUT's Occupied Bandwidth are shown Page 114 ~ 153.

### 8.5 CONDUCTED SPURIOUS EMISSIONS

| Band    | Band Width (MHz) | Frequency (MHz) | Frequency of Maximum Harmonic (GHz) | Factor (dB) | Measurement Maximum Data (dBm) | Result (dBm) | Limit (dBm) |
|---------|------------------|-----------------|-------------------------------------|-------------|--------------------------------|--------------|-------------|
| Sub6 n7 | 5                | 2502.500        | 3.60923                             | 28.150      | -63.74                         | -35.592      | -25.00      |
|         |                  | 2535.000        | 4.79566                             | 28.150      | -63.21                         | -35.059      |             |
|         |                  | 2567.500        | 4.58629                             | 28.150      | -63.04                         | -34.893      |             |
|         | 10               | 2505.000        | 9.12264                             | 28.730      | -62.53                         | -33.800      |             |
|         |                  | 2535.000        | 5.00503                             | 28.730      | -62.29                         | -33.558      |             |
|         |                  | 2565.000        | 9.22234                             | 28.730      | -63.64                         | -34.912      |             |
|         | 15               | 2507.500        | 9.05285                             | 28.730      | -63.87                         | -35.140      |             |
|         |                  | 2535.000        | 5.24431                             | 28.730      | -62.93                         | -34.201      |             |
|         |                  | 2562.500        | 9.05285                             | 28.730      | -64.04                         | -35.308      |             |
|         | 20               | 2510.000        | 4.58629                             | 28.150      | -62.85                         | -34.701      |             |
|         |                  | 2535.000        | 4.98509                             | 28.150      | -63.12                         | -34.967      |             |
|         |                  | 2560.000        | 4.78569                             | 28.150      | -62.93                         | -34.779      |             |
|         | 25               | 2512.500        | 3.99806                             | 28.150      | -64.07                         | -35.919      |             |
|         |                  | 2535.000        | 6.84948                             | 28.730      | -62.79                         | -34.061      |             |
|         |                  | 2557.500        | 9.00300                             | 28.730      | -63.61                         | -34.884      |             |
|         | 30               | 2515.000        | 4.78569                             | 28.150      | -63.48                         | -35.331      |             |
|         |                  | 2535.000        | 4.78569                             | 28.150      | -63.72                         | -35.570      |             |
|         |                  | 2555.000        | 3.83854                             | 28.150      | -61.74                         | -33.592      |             |
|         | 40               | 2520.000        | 4.98509                             | 28.150      | -63.41                         | -35.258      |             |
|         |                  | 2535.000        | 4.80563                             | 28.150      | -63.25                         | -35.101      |             |
|         |                  | 2550.000        | 6.07182                             | 28.730      | -63.58                         | -34.849      |             |
|         | 50               | 2525.000        | 6.15158                             | 28.730      | -63.72                         | -34.992      |             |
|         |                  | 2535.000        | 4.18749                             | 28.150      | -64.14                         | -35.992      |             |
|         |                  | 2545.000        | 3.75878                             | 28.150      | -63.19                         | -35.044      |             |

#### Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 154 ~ 201.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
3. Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter

| Frequency Range (GHz) | Factor [dB] |
|-----------------------|-------------|
| 0.03 - 1              | 27.270      |
| 1 - 5                 | 28.150      |
| 5 - 10                | 28.730      |
| 10 - 15               | 29.330      |
| 15 - 20               | 30.520      |
| Above 20              | 31.890      |

## 8.6 CHANNEL EDGE

| BW<br>(MHz) | Frequency<br>(MHz) | Mod  | RB<br>(Size/<br>Offset) | 2 500<br>MHz<br>~ 2 496<br>MHz | C.E<br>~ (C.E +1<br>MHz) | 2 490.5<br>MHz<br>~ 2 496<br>MHz | (C.E + 1<br>MHz)<br>~<br>(C.E + 5<br>MHz) | Below<br>2 490.5<br>MHz | (C.E + 5<br>MHz)<br>~<br>(C.E + X<br>MHz) | Above<br>(C.E + X<br>MHz) |
|-------------|--------------------|------|-------------------------|--------------------------------|--------------------------|----------------------------------|-------------------------------------------|-------------------------|-------------------------------------------|---------------------------|
|             |                    |      |                         | Lower                          | Upper                    | Lower                            | Upper                                     | Lower                   | Upper                                     | Upper                     |
| 5 MHz       | 2502.500           | BPSK | Full RB                 | -25.72                         | -28.30                   | -28.17                           | -26.59                                    | -45.15                  | -31.08                                    | -32.25                    |
| 10 MHz      | 2505.000           | BPSK | Full RB                 | -28.35                         | -34.66                   | -29.96                           | -28.61                                    | -38.41                  | -28.81                                    | -34.07                    |
| 15 MHz      | 2507.500           | BPSK | Full RB                 | -29.16                         | -30.51                   | -28.60                           | -27.20                                    | -32.83                  | -30.03                                    | -33.47                    |
| 20 MHz      | 2510.000           | BPSK | Full RB                 | -25.42                         | -29.52                   | -30.29                           | -28.03                                    | -32.36                  | -28.47                                    | -38.90                    |
| 25 MHz      | 2512.500           | BPSK | Full RB                 | -26.90                         | -29.96                   | -30.32                           | -28.09                                    | -32.66                  | -30.28                                    | -40.90                    |
| 30 MHz      | 2515.000           | BPSK | Full RB                 | -25.80                         | -26.69                   | -28.01                           | -28.06                                    | -31.76                  | -30.72                                    | -40.84                    |
| 40 MHz      | 2520.000           | BPSK | Full RB                 | -16.08                         | -17.11                   | -29.68                           | -27.29                                    | -32.72                  | -29.05                                    | -47.12                    |
| 50 MHz      | 2525.000           | BPSK | Full RB                 | -12.96                         | -13.96                   | -28.64                           | -27.28                                    | -31.63                  | -27.67                                    | -60.94                    |
| Limit(dBm)  |                    |      |                         | -10.0                          | -10.0                    | -13.0                            | -10.0                                     | -25.0                   | -13.0                                     | -25.0                     |

| BW<br>(MHz) | Frequency<br>(MHz) | Mod  | RB<br>(Size/<br>Offset) | C.E ~ (C.E ± 1 MHz) |        | (C.E ± 1 MHz)<br>~<br>(C.E ± 5 MHz) |        |
|-------------|--------------------|------|-------------------------|---------------------|--------|-------------------------------------|--------|
|             |                    |      |                         | Lower               | Upper  | Lower                               | Upper  |
| 5 MHz       | 2535.000           | BPSK | Full RB                 | -29.53              | -29.56 | -27.22                              | -26.52 |
|             | 2567.500           | BPSK | Full RB                 | -28.31              | -29.04 | -25.63                              | -27.10 |
| 10 MHz      | 2535.000           | BPSK | Full RB                 | -32.82              | -33.71 | -29.86                              | -28.44 |
|             | 2565.000           | BPSK | Full RB                 | -28.64              | -30.84 | -24.72                              | -24.16 |
| 15 MHz      | 2535.000           | BPSK | Full RB                 | -30.89              | -34.30 | -30.15                              | -30.13 |
|             | 2562.500           | BPSK | Full RB                 | -25.94              | -27.91 | -22.72                              | -23.65 |
| 20 MHz      | 2535.000           | BPSK | Full RB                 | -29.79              | -34.01 | -28.79                              | -29.54 |
|             | 2560.000           | BPSK | Full RB                 | -24.97              | -28.69 | -25.76                              | -26.77 |
| 25 MHz      | 2535.000           | BPSK | Full RB                 | -30.91              | -29.84 | -32.29                              | -28.49 |
|             | 2557.500           | BPSK | Full RB                 | -27.13              | -31.67 | -25.80                              | -29.28 |
| 30 MHz      | 2535.000           | BPSK | Full RB                 | -26.24              | -28.68 | -31.74                              | -32.01 |
|             | 2555.000           | BPSK | Full RB                 | -25.90              | -27.29 | -28.19                              | -27.37 |
| 40 MHz      | 2535.000           | BPSK | Full RB                 | -14.57              | -17.12 | -30.35                              | -29.63 |
|             | 2550.000           | BPSK | Full RB                 | -15.67              | -17.01 | -31.21                              | -31.05 |
| 50 MHz      | 2535.000           | BPSK | Full RB                 | -12.72              | -14.43 | -26.10                              | -29.18 |
|             | 2545.000           | BPSK | Full RB                 | -12.42              | -13.49 | -29.93                              | -29.13 |
| Limi(dBm)   |                    |      |                         | -10.0               |        | -10.0                               |        |

| BW<br>(MHz) | Frequency<br>(MHz) | Mod  | RB<br>(Size/ Offset) | (C.E $\pm$ 5 MHz)      |        | Above<br>(C.E $\pm$ X MHz) |        |
|-------------|--------------------|------|----------------------|------------------------|--------|----------------------------|--------|
|             |                    |      |                      | ~<br>(C.E $\pm$ X MHz) |        |                            |        |
|             |                    |      |                      | Lower                  | Upper  | Lower                      | Upper  |
| 5 MHz       | 2535.000           | BPSK | Full RB              | -31.80                 | -31.99 | -32.70                     | -32.53 |
|             | 2567.500           | BPSK | Full RB              | -30.28                 | -33.29 | -30.46                     | -33.62 |
| 10 MHz      | 2535.000           | BPSK | Full RB              | -31.49                 | -31.74 | -35.40                     | -35.47 |
|             | 2565.000           | BPSK | Full RB              | -28.04                 | -30.17 | -29.72                     | -36.64 |
| 15 MHz      | 2535.000           | BPSK | Full RB              | -30.27                 | -30.65 | -36.05                     | -37.29 |
|             | 2562.500           | BPSK | Full RB              | -26.69                 | -28.80 | -30.82                     | -43.33 |
| 20 MHz      | 2535.000           | BPSK | Full RB              | -30.59                 | -31.28 | -37.35                     | -35.90 |
|             | 2560.000           | BPSK | Full RB              | -28.09                 | -29.87 | -35.35                     | -45.67 |
| 25 MHz      | 2535.000           | BPSK | Full RB              | -33.19                 | -31.75 | -41.48                     | -40.24 |
|             | 2557.500           | BPSK | Full RB              | -29.50                 | -32.45 | -35.83                     | -55.64 |
| 30 MHz      | 2535.000           | BPSK | Full RB              | -32.41                 | -30.91 | -44.01                     | -40.74 |
|             | 2555.000           | BPSK | Full RB              | -29.34                 | -32.16 | -35.74                     | -61.12 |
| 40 MHz      | 2535.000           | BPSK | Full RB              | -32.64                 | -30.00 | -61.48                     | -56.20 |
|             | 2550.000           | BPSK | Full RB              | -30.02                 | -34.20 | -43.12                     | -60.94 |
| 50 MHz      | 2535.000           | BPSK | Full RB              | -30.36                 | -31.22 | -61.73                     | -60.99 |
|             | 2545.000           | BPSK | Full RB              | -30.27                 | -29.67 | -61.66                     | -60.98 |
| Limit(dBm)  |                    |      |                      | -13.0                  |        | -25.0                      |        |

**Note:**

1. C.E = Channel Edge
2. X = X is the greater of 6 MHz or the actual emission bandwidth
3. Plots of the EUT's Channel Edge are shown Page 202 ~ 257.

## 8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ▣ BandWidth: 5 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Lowest voltage: 3.700 VDC
- ▣ LIMIT: Emission must remain in band

| Test.<br>Frequency | Voltage        | Temp.    | Frequency    | Frequency  | Deviation | ppm    |
|--------------------|----------------|----------|--------------|------------|-----------|--------|
| (MHz)              | (%)            | (°C)     | (Hz)         | Error (Hz) | (%)       |        |
| 2502.500           | 100 %          | +20(Ref) | 2502 500 002 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %          | -30      | 2502 500 007 | 5.3        | 0.000 000 | 0.002  |
|                    | 100 %          | -20      | 2502 500 004 | 2.2        | 0.000 000 | 0.001  |
|                    | 100 %          | -10      | 2502 500 001 | -1.3       | 0.000 000 | -0.001 |
|                    | 100 %          | 0        | 2502 499 996 | -5.9       | 0.000 000 | -0.002 |
|                    | 100 %          | +10      | 2502 500 005 | 3.3        | 0.000 000 | 0.001  |
|                    | 100 %          | +30      | 2502 500 004 | 1.7        | 0.000 000 | 0.001  |
|                    | 100 %          | +40      | 2502 500 001 | -0.7       | 0.000 000 | 0.000  |
|                    | 100 %          | +50      | 2502 499 999 | -3.3       | 0.000 000 | -0.001 |
|                    | Lowest voltage | +20      | 2502 500 004 | 2.4        | 0.000 000 | 0.001  |
| 2567.500           | 100 %          | +20(Ref) | 2567 499 995 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %          | -30      | 2567 499 986 | -9.5       | 0.000 000 | -0.004 |
|                    | 100 %          | -20      | 2567 499 988 | -7.4       | 0.000 000 | -0.003 |
|                    | 100 %          | -10      | 2567 499 988 | -6.9       | 0.000 000 | -0.003 |
|                    | 100 %          | 0        | 2567 499 986 | -8.9       | 0.000 000 | -0.003 |
|                    | 100 %          | +10      | 2567 499 994 | -1.6       | 0.000 000 | -0.001 |
|                    | 100 %          | +30      | 2567 499 994 | -1.3       | 0.000 000 | -0.001 |
|                    | 100 %          | +40      | 2567 499 992 | -2.7       | 0.000 000 | -0.001 |
|                    | 100 %          | +50      | 2567 499 991 | -3.7       | 0.000 000 | -0.001 |
|                    | Lowest voltage | +20      | 2567 499 990 | -4.9       | 0.000 000 | -0.002 |

- ▣ BandWidth: 10 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Lowest voltage: 3.700 VDC
- ▣ LIMIT: Emission must remain in band

| Test.<br>Frequency | Voltage        | Temp.    | Frequency    | Frequency  | Deviation | ppm    |
|--------------------|----------------|----------|--------------|------------|-----------|--------|
| (MHz)              | (%)            | (°C)     | (Hz)         | Error (Hz) | (%)       |        |
| 2505.000           | 100 %          | +20(Ref) | 2505 000 001 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %          | -30      | 2505 000 004 | 2.7        | 0.000 000 | 0.001  |
|                    | 100 %          | -20      | 2505 000 002 | 0.7        | 0.000 000 | 0.000  |
|                    | 100 %          | -10      | 2505 000 003 | 1.6        | 0.000 000 | 0.001  |
|                    | 100 %          | 0        | 2505 000 004 | 2.8        | 0.000 000 | 0.001  |
|                    | 100 %          | +10      | 2505 000 004 | 2.5        | 0.000 000 | 0.001  |
|                    | 100 %          | +30      | 2505 000 004 | 2.6        | 0.000 000 | 0.001  |
|                    | 100 %          | +40      | 2505 000 005 | 4.0        | 0.000 000 | 0.002  |
|                    | 100 %          | +50      | 2505 000 004 | 2.8        | 0.000 000 | 0.001  |
|                    | Lowest voltage | +20      | 2504 999 999 | -2.7       | 0.000 000 | -0.001 |
| 2565.000           | 100 %          | +20(Ref) | 2565 000 002 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %          | -30      | 2565 000 005 | 2.7        | 0.000 000 | 0.001  |
|                    | 100 %          | -20      | 2565 000 009 | 7.2        | 0.000 000 | 0.003  |
|                    | 100 %          | -10      | 2565 000 007 | 5.2        | 0.000 000 | 0.002  |
|                    | 100 %          | 0        | 2565 000 006 | 3.7        | 0.000 000 | 0.001  |
|                    | 100 %          | +10      | 2565 000 007 | 4.3        | 0.000 000 | 0.002  |
|                    | 100 %          | +30      | 2565 000 008 | 5.4        | 0.000 000 | 0.002  |
|                    | 100 %          | +40      | 2565 000 003 | 1.0        | 0.000 000 | 0.000  |
|                    | 100 %          | +50      | 2565 000 006 | 4.0        | 0.000 000 | 0.002  |
|                    | Lowest voltage | +20      | 2565 000 003 | 1.1        | 0.000 000 | 0.000  |

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Lowest voltage: 3.700 VDC
- ▣ LIMIT: Emission must remain in band

| Test.<br>Frequency | Voltage        | Temp.    | Frequency    | Frequency  | Deviation | ppm    |
|--------------------|----------------|----------|--------------|------------|-----------|--------|
| (MHz)              | (%)            | (°C)     | (Hz)         | Error (Hz) | (%)       |        |
| 2507.500           | 100 %          | +20(Ref) | 2507 499 998 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %          | -30      | 2507 500 001 | 2.6        | 0.000 000 | 0.001  |
|                    | 100 %          | -20      | 2507 499 993 | -5.0       | 0.000 000 | -0.002 |
|                    | 100 %          | -10      | 2507 499 995 | -3.2       | 0.000 000 | -0.001 |
|                    | 100 %          | 0        | 2507 499 997 | -1.0       | 0.000 000 | 0.000  |
|                    | 100 %          | +10      | 2507 499 997 | -1.0       | 0.000 000 | 0.000  |
|                    | 100 %          | +30      | 2507 499 996 | -2.4       | 0.000 000 | -0.001 |
|                    | 100 %          | +40      | 2507 499 997 | -1.1       | 0.000 000 | 0.000  |
|                    | 100 %          | +50      | 2507 499 999 | 0.4        | 0.000 000 | 0.000  |
|                    | Lowest voltage | +20      | 2507 499 996 | -2.2       | 0.000 000 | -0.001 |
| 2562.500           | 100 %          | +20(Ref) | 2562 500 003 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %          | -30      | 2562 500 001 | -2.1       | 0.000 000 | -0.001 |
|                    | 100 %          | -20      | 2562 499 999 | -3.9       | 0.000 000 | -0.002 |
|                    | 100 %          | -10      | 2562 500 002 | -0.3       | 0.000 000 | 0.000  |
|                    | 100 %          | 0        | 2562 499 995 | -7.8       | 0.000 000 | -0.003 |
|                    | 100 %          | +10      | 2562 499 995 | -8.0       | 0.000 000 | -0.003 |
|                    | 100 %          | +30      | 2562 499 997 | -5.8       | 0.000 000 | -0.002 |
|                    | 100 %          | +40      | 2562 499 996 | -6.6       | 0.000 000 | -0.003 |
|                    | 100 %          | +50      | 2562 499 994 | -8.6       | 0.000 000 | -0.003 |
|                    | Lowest voltage | +20      | 2562 499 996 | -6.3       | 0.000 000 | -0.002 |

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Lowest voltage: 3.700 VDC
- ▣ LIMIT: Emission must remain in band

| Test.<br>Frequency | Voltage        | Temp.    | Frequency    | Frequency  | Deviation | ppm    |
|--------------------|----------------|----------|--------------|------------|-----------|--------|
| (MHz)              | (%)            | (°C)     | (Hz)         | Error (Hz) | (%)       |        |
| 2510.000           | 100 %          | +20(Ref) | 2509 999 995 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %          | -30      | 2509 999 991 | -3.7       | 0.000 000 | -0.001 |
|                    | 100 %          | -20      | 2509 999 991 | -3.2       | 0.000 000 | -0.001 |
|                    | 100 %          | -10      | 2509 999 993 | -1.6       | 0.000 000 | -0.001 |
|                    | 100 %          | 0        | 2509 999 990 | -4.8       | 0.000 000 | -0.002 |
|                    | 100 %          | +10      | 2509 999 988 | -6.6       | 0.000 000 | -0.003 |
|                    | 100 %          | +30      | 2509 999 992 | -2.2       | 0.000 000 | -0.001 |
|                    | 100 %          | +40      | 2509 999 991 | -3.2       | 0.000 000 | -0.001 |
|                    | 100 %          | +50      | 2509 999 993 | -2.0       | 0.000 000 | -0.001 |
|                    | Lowest voltage | +20      | 2509 999 993 | -1.9       | 0.000 000 | -0.001 |
| 2560.000           | 100 %          | +20(Ref) | 2560 000 001 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %          | -30      | 2560 000 004 | 3.8        | 0.000 000 | 0.001  |
|                    | 100 %          | -20      | 2560 000 005 | 3.9        | 0.000 000 | 0.002  |
|                    | 100 %          | -10      | 2560 000 006 | 5.2        | 0.000 000 | 0.002  |
|                    | 100 %          | 0        | 2560 000 005 | 4.7        | 0.000 000 | 0.002  |
|                    | 100 %          | +10      | 2560 000 004 | 3.5        | 0.000 000 | 0.001  |
|                    | 100 %          | +30      | 2560 000 005 | 3.9        | 0.000 000 | 0.002  |
|                    | 100 %          | +40      | 2560 000 002 | 1.2        | 0.000 000 | 0.000  |
|                    | 100 %          | +50      | 2560 000 001 | 0.0        | 0.000 000 | 0.000  |
|                    | Lowest voltage | +20      | 2560 000 003 | 2.4        | 0.000 000 | 0.001  |

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Lowest voltage: 3.700 VDC
- ▣ LIMIT: Emission must remain in band

| Test.<br>Frequency | Voltage        | Temp.    | Frequency    | Frequency  | Deviation | ppm    |
|--------------------|----------------|----------|--------------|------------|-----------|--------|
| (MHz)              | (%)            | (°C)     | (Hz)         | Error (Hz) | (%)       |        |
| 2512.500           | 100 %          | +20(Ref) | 2512 500 002 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %          | -30      | 2512 500 002 | 0.2        | 0.000 000 | 0.000  |
|                    | 100 %          | -20      | 2512 500 003 | 1.0        | 0.000 000 | 0.000  |
|                    | 100 %          | -10      | 2512 500 006 | 4.3        | 0.000 000 | 0.002  |
|                    | 100 %          | 0        | 2512 500 002 | 0.2        | 0.000 000 | 0.000  |
|                    | 100 %          | +10      | 2512 500 005 | 3.2        | 0.000 000 | 0.001  |
|                    | 100 %          | +30      | 2512 500 006 | 4.2        | 0.000 000 | 0.002  |
|                    | 100 %          | +40      | 2512 500 005 | 3.7        | 0.000 000 | 0.001  |
|                    | 100 %          | +50      | 2512 500 009 | 7.1        | 0.000 000 | 0.003  |
|                    | Lowest voltage | +20      | 2512 500 006 | 4.5        | 0.000 000 | 0.002  |
| 2557.500           | 100 %          | +20(Ref) | 2557 499 993 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %          | -30      | 2557 499 996 | 2.7        | 0.000 000 | 0.001  |
|                    | 100 %          | -20      | 2557 499 993 | -0.5       | 0.000 000 | 0.000  |
|                    | 100 %          | -10      | 2557 499 988 | -5.4       | 0.000 000 | -0.002 |
|                    | 100 %          | 0        | 2557 499 988 | -4.9       | 0.000 000 | -0.002 |
|                    | 100 %          | +10      | 2557 499 987 | -5.8       | 0.000 000 | -0.002 |
|                    | 100 %          | +30      | 2557 499 988 | -5.4       | 0.000 000 | -0.002 |
|                    | 100 %          | +40      | 2557 499 993 | -0.3       | 0.000 000 | 0.000  |
|                    | 100 %          | +50      | 2557 499 988 | -4.8       | 0.000 000 | -0.002 |
|                    | Lowest voltage | +20      | 2557 499 988 | -5.3       | 0.000 000 | -0.002 |

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Lowest voltage: 3.700 VDC
- ▣ LIMIT: Emission must remain in band

| Test.<br>Frequency | Voltage        | Temp.    | Frequency    | Frequency  | Deviation | ppm    |
|--------------------|----------------|----------|--------------|------------|-----------|--------|
| (MHz)              | (%)            | (°C)     | (Hz)         | Error (Hz) | (%)       |        |
| 2515.000           | 100 %          | +20(Ref) | 2514 999 996 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %          | -30      | 2514 999 988 | -7.8       | 0.000 000 | -0.003 |
|                    | 100 %          | -20      | 2514 999 992 | -3.7       | 0.000 000 | -0.001 |
|                    | 100 %          | -10      | 2514 999 995 | -0.5       | 0.000 000 | 0.000  |
|                    | 100 %          | 0        | 2514 999 995 | -1.1       | 0.000 000 | 0.000  |
|                    | 100 %          | +10      | 2514 999 997 | 1.0        | 0.000 000 | 0.000  |
|                    | 100 %          | +30      | 2514 999 993 | -2.8       | 0.000 000 | -0.001 |
|                    | 100 %          | +40      | 2514 999 991 | -5.1       | 0.000 000 | -0.002 |
|                    | 100 %          | +50      | 2514 999 992 | -4.2       | 0.000 000 | -0.002 |
|                    | Lowest voltage | +20      | 2514 999 991 | -5.0       | 0.000 000 | -0.002 |
| 2555.000           | 100 %          | +20(Ref) | 2554 999 998 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %          | -30      | 2554 999 993 | -4.2       | 0.000 000 | -0.002 |
|                    | 100 %          | -20      | 2554 999 994 | -3.4       | 0.000 000 | -0.001 |
|                    | 100 %          | -10      | 2554 999 992 | -5.2       | 0.000 000 | -0.002 |
|                    | 100 %          | 0        | 2554 999 988 | -9.2       | 0.000 000 | -0.004 |
|                    | 100 %          | +10      | 2554 999 993 | -4.9       | 0.000 000 | -0.002 |
|                    | 100 %          | +30      | 2554 999 996 | -1.9       | 0.000 000 | -0.001 |
|                    | 100 %          | +40      | 2554 999 992 | -5.3       | 0.000 000 | -0.002 |
|                    | 100 %          | +50      | 2554 999 991 | -6.6       | 0.000 000 | -0.003 |
|                    | Lowest voltage | +20      | 2554 999 994 | -3.8       | 0.000 000 | -0.001 |

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Lowest voltage: 3.700 VDC
- ▣ LIMIT: Emission must remain in band

| Test.<br>Frequency | Voltage        | Temp.    | Frequency    | Frequency  | Deviation | ppm    |
|--------------------|----------------|----------|--------------|------------|-----------|--------|
| (MHz)              | (%)            | (°C)     | (Hz)         | Error (Hz) | (%)       |        |
| 2520.000           | 100 %          | +20(Ref) | 2519 999 992 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %          | -30      | 2519 999 991 | -1.6       | 0.000 000 | -0.001 |
|                    | 100 %          | -20      | 2519 999 991 | -1.3       | 0.000 000 | -0.001 |
|                    | 100 %          | -10      | 2519 999 992 | -0.3       | 0.000 000 | 0.000  |
|                    | 100 %          | 0        | 2519 999 988 | -3.8       | 0.000 000 | -0.002 |
|                    | 100 %          | +10      | 2519 999 988 | -4.6       | 0.000 000 | -0.002 |
|                    | 100 %          | +30      | 2519 999 991 | -1.6       | 0.000 000 | -0.001 |
|                    | 100 %          | +40      | 2519 999 994 | 2.1        | 0.000 000 | 0.001  |
|                    | 100 %          | +50      | 2519 999 989 | -2.9       | 0.000 000 | -0.001 |
|                    | Lowest voltage | +20      | 2519 999 989 | -3.3       | 0.000 000 | -0.001 |
| 2550.000           | 100 %          | +20(Ref) | 2549 999 999 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %          | -30      | 2549 999 996 | -2.4       | 0.000 000 | -0.001 |
|                    | 100 %          | -20      | 2549 999 998 | -0.3       | 0.000 000 | 0.000  |
|                    | 100 %          | -10      | 2550 000 002 | 3.2        | 0.000 000 | 0.001  |
|                    | 100 %          | 0        | 2550 000 000 | 0.8        | 0.000 000 | 0.000  |
|                    | 100 %          | +10      | 2550 000 003 | 4.2        | 0.000 000 | 0.002  |
|                    | 100 %          | +30      | 2549 999 999 | 0.2        | 0.000 000 | 0.000  |
|                    | 100 %          | +40      | 2549 999 999 | 0.8        | 0.000 000 | 0.000  |
|                    | 100 %          | +50      | 2549 999 997 | -2.0       | 0.000 000 | -0.001 |
|                    | Lowest voltage | +20      | 2549 999 993 | -5.4       | 0.000 000 | -0.002 |

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 4.200 VDC
- ▣ Lowest voltage: 3.700 VDC
- ▣ LIMIT: Emission must remain in band

| Test.<br>Frequency | Voltage        | Temp.    | Frequency    | Frequency  | Deviation | ppm    |
|--------------------|----------------|----------|--------------|------------|-----------|--------|
| (MHz)              | (%)            | (°C)     | (Hz)         | Error (Hz) | (%)       |        |
| 2525.000           | 100 %          | +20(Ref) | 2524 999 998 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %          | -30      | 2524 999 994 | -3.1       | 0.000 000 | -0.001 |
|                    | 100 %          | -20      | 2524 999 996 | -1.6       | 0.000 000 | -0.001 |
|                    | 100 %          | -10      | 2524 999 996 | -2.0       | 0.000 000 | -0.001 |
|                    | 100 %          | 0        | 2524 999 995 | -3.1       | 0.000 000 | -0.001 |
|                    | 100 %          | +10      | 2524 999 993 | -5.0       | 0.000 000 | -0.002 |
|                    | 100 %          | +30      | 2524 999 993 | -4.3       | 0.000 000 | -0.002 |
|                    | 100 %          | +40      | 2524 999 995 | -2.4       | 0.000 000 | -0.001 |
|                    | 100 %          | +50      | 2525 000 000 | 1.9        | 0.000 000 | 0.001  |
|                    | Lowest voltage | +20      | 2524 999 995 | -2.1       | 0.000 000 | -0.001 |
| 2545.000           | 100 %          | +20(Ref) | 2545 000 000 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %          | -30      | 2544 999 996 | -4.3       | 0.000 000 | -0.002 |
|                    | 100 %          | -20      | 2544 999 990 | -9.9       | 0.000 000 | -0.004 |
|                    | 100 %          | -10      | 2544 999 992 | -7.9       | 0.000 000 | -0.003 |
|                    | 100 %          | 0        | 2544 999 995 | -5.1       | 0.000 000 | -0.002 |
|                    | 100 %          | +10      | 2544 999 995 | -4.9       | 0.000 000 | -0.002 |
|                    | 100 %          | +30      | 2544 999 994 | -6.0       | 0.000 000 | -0.002 |
|                    | 100 %          | +40      | 2544 999 993 | -7.0       | 0.000 000 | -0.003 |
|                    | 100 %          | +50      | 2544 999 996 | -4.0       | 0.000 000 | -0.002 |
|                    | Lowest voltage | +20      | 2544 999 998 | -1.9       | 0.000 000 | -0.001 |

## 9. TEST DATA (Internal(BUA))

### 9.1 EQUIVALENT ISOTROPIC RADIATED POWER

| Freq<br>(MHz) | Mod/<br>Bandwidth<br>[SCS (kHz)] | Modulation | Measured<br>Level (dBm) | Substitute Level<br>(dBm) | Ant. Gain<br>(dBi) | C.L  | Pol. | Limit  | EIRP  |       | RB   |        |
|---------------|----------------------------------|------------|-------------------------|---------------------------|--------------------|------|------|--------|-------|-------|------|--------|
|               |                                  |            |                         |                           |                    |      |      | W      | W     | dBm   | Size | Offset |
| 2502.5        |                                  | PI/2 BPSK  | -24.42                  | 14.03                     | 10.26              | 2.51 | H    |        | 0.151 | 21.78 | 1    | 12     |
|               |                                  | QPSK       | -24.52                  | 13.93                     | 10.26              | 2.51 | H    |        | 0.147 | 21.68 |      |        |
|               |                                  | 16-QAM     | -25.39                  | 13.06                     | 10.26              | 2.51 | H    |        | 0.121 | 20.81 |      |        |
|               |                                  | 64-QAM     | -26.87                  | 11.58                     | 10.26              | 2.51 | H    |        | 0.086 | 19.33 |      |        |
|               |                                  | 256-QAM    | -28.44                  | 10.01                     | 10.26              | 2.51 | H    |        | 0.060 | 17.76 |      |        |
| 2535.0        | Sub6 n7/<br>5 MHz<br>[15 kHz]    | PI/2 BPSK  | -23.65                  | 15.19                     | 10.25              | 2.54 | H    | < 2.00 | 0.195 | 22.90 | 1    | 12     |
|               |                                  | QPSK       | -23.72                  | 15.12                     | 10.25              | 2.54 | H    |        | 0.192 | 22.83 |      |        |
|               |                                  | 16-QAM     | -24.53                  | 14.31                     | 10.25              | 2.54 | H    |        | 0.159 | 22.02 |      |        |
|               |                                  | 64-QAM     | -26.03                  | 12.81                     | 10.25              | 2.54 | H    |        | 0.113 | 20.52 |      |        |
|               |                                  | 256-QAM    | -27.57                  | 11.27                     | 10.25              | 2.54 | H    |        | 0.079 | 18.98 |      |        |
| 2567.5        |                                  | PI/2 BPSK  | -23.74                  | 15.34                     | 10.27              | 2.65 | H    |        | 0.198 | 22.96 | 1    | 12     |
|               |                                  | QPSK       | -23.90                  | 15.18                     | 10.27              | 2.65 | H    |        | 0.191 | 22.80 |      |        |
|               |                                  | 16-QAM     | -24.15                  | 14.93                     | 10.27              | 2.65 | H    |        | 0.180 | 22.55 |      |        |
|               |                                  | 64-QAM     | -25.66                  | 13.42                     | 10.27              | 2.65 | H    |        | 0.127 | 21.04 |      |        |
|               |                                  | 256-QAM    | -27.33                  | 11.75                     | 10.27              | 2.65 | H    |        | 0.087 | 19.37 |      |        |

| Freq<br>(MHz) | Mod/<br>Bandwidth<br>[SCS (kHz)] | Modulation | Measured<br>Level (dBm) | Substitute Level<br>(dBm) | Ant. Gain<br>(dBi) | C.L  | Pol. | Limit  | EIRP  |       | RB   |        |
|---------------|----------------------------------|------------|-------------------------|---------------------------|--------------------|------|------|--------|-------|-------|------|--------|
|               |                                  |            |                         |                           |                    |      |      | W      | W     | dBm   | Size | Offset |
| 2505.0        |                                  | PI/2 BPSK  | -24.44                  | 14.01                     | 10.26              | 2.51 | H    | < 2.00 | 0.150 | 21.76 | 1    | 26     |
|               |                                  | QPSK       | -24.47                  | 13.98                     | 10.26              | 2.51 | H    |        | 0.149 | 21.73 |      |        |
|               |                                  | 16-QAM     | -25.42                  | 13.03                     | 10.26              | 2.51 | H    |        | 0.120 | 20.78 |      |        |
|               |                                  | 64-QAM     | -26.99                  | 11.46                     | 10.26              | 2.51 | H    |        | 0.083 | 19.21 |      |        |
|               |                                  | 256-QAM    | -28.40                  | 10.05                     | 10.26              | 2.51 | H    |        | 0.060 | 17.80 |      |        |
| 2535.0        | Sub6 n7/<br>10 MHz<br>[15 kHz]   | PI/2 BPSK  | -23.56                  | 15.28                     | 10.25              | 2.54 | H    | < 2.00 | 0.199 | 22.99 | 1    | 26     |
|               |                                  | QPSK       | -23.57                  | 15.27                     | 10.25              | 2.54 | H    |        | 0.199 | 22.98 |      |        |
|               |                                  | 16-QAM     | -24.51                  | 14.33                     | 10.25              | 2.54 | H    |        | 0.160 | 22.04 |      |        |
|               |                                  | 64-QAM     | -25.91                  | 12.93                     | 10.25              | 2.54 | H    |        | 0.116 | 20.64 |      |        |
|               |                                  | 256-QAM    | -27.47                  | 11.37                     | 10.25              | 2.54 | H    |        | 0.081 | 19.08 |      |        |
| 2565.0        |                                  | PI/2 BPSK  | -23.68                  | 15.38                     | 10.26              | 2.62 | H    | < 2.00 | 0.200 | 23.02 | 1    | 1      |
|               |                                  | QPSK       | -23.84                  | 15.22                     | 10.26              | 2.62 | H    |        | 0.193 | 22.86 |      |        |
|               |                                  | 16-QAM     | -24.29                  | 14.77                     | 10.26              | 2.62 | H    |        | 0.174 | 22.41 |      |        |
|               |                                  | 64-QAM     | -25.75                  | 13.31                     | 10.26              | 2.62 | H    |        | 0.124 | 20.95 |      |        |
|               |                                  | 256-QAM    | -27.44                  | 11.62                     | 10.26              | 2.62 | H    |        | 0.084 | 19.26 |      |        |

| Freq<br>(MHz) | Mod/<br>Bandwidth<br>[SCS (kHz)] | Modulation | Measured<br>Level (dBm) | Substitute Level<br>(dBm) | Ant. Gain<br>(dBi) | C.L  | Pol. | Limit  | EIRP  |       | RB   |        |
|---------------|----------------------------------|------------|-------------------------|---------------------------|--------------------|------|------|--------|-------|-------|------|--------|
|               |                                  |            |                         |                           |                    |      |      | W      | W     | dBm   | Size | Offset |
| 2507.5        |                                  | PI/2 BPSK  | -24.32                  | 14.21                     | 10.26              | 2.51 | H    |        | 0.157 | 21.96 | 1    | 77     |
|               |                                  | QPSK       | -24.37                  | 14.16                     | 10.26              | 2.51 | H    |        | 0.155 | 21.91 |      |        |
|               |                                  | 16-QAM     | -26.93                  | 11.60                     | 10.26              | 2.51 | H    |        | 0.086 | 19.35 |      |        |
|               |                                  | 64-QAM     | -26.75                  | 11.78                     | 10.26              | 2.51 | H    |        | 0.090 | 19.53 |      |        |
|               |                                  | 256-QAM    | -28.43                  | 10.10                     | 10.26              | 2.51 | H    |        | 0.061 | 17.85 |      |        |
| 2535.0        | Sub6 n7/<br>15 MHz<br>[15 kHz]   | PI/2 BPSK  | -23.57                  | 15.27                     | 10.25              | 2.54 | H    | < 2.00 | 0.199 | 22.98 | 1    | 39     |
|               |                                  | QPSK       | -23.69                  | 15.15                     | 10.25              | 2.54 | H    |        | 0.193 | 22.86 |      |        |
|               |                                  | 16-QAM     | -24.51                  | 14.33                     | 10.25              | 2.54 | H    |        | 0.160 | 22.04 |      |        |
|               |                                  | 64-QAM     | -26.06                  | 12.78                     | 10.25              | 2.54 | H    |        | 0.112 | 20.49 |      |        |
|               |                                  | 256-QAM    | -27.50                  | 11.34                     | 10.25              | 2.54 | H    |        | 0.080 | 19.05 |      |        |
| 2562.5        |                                  | PI/2 BPSK  | -23.55                  | 15.51                     | 10.26              | 2.62 | H    |        | 0.207 | 23.15 | 1    | 1      |
|               |                                  | QPSK       | -23.58                  | 15.48                     | 10.26              | 2.62 | H    |        | 0.205 | 23.12 |      |        |
|               |                                  | 16-QAM     | -24.46                  | 14.60                     | 10.26              | 2.62 | H    |        | 0.168 | 22.24 |      |        |
|               |                                  | 64-QAM     | -25.91                  | 13.15                     | 10.26              | 2.62 | H    |        | 0.120 | 20.79 |      |        |
|               |                                  | 256-QAM    | -27.51                  | 11.55                     | 10.26              | 2.62 | H    |        | 0.083 | 19.19 |      |        |

| Freq<br>(MHz) | Mod/<br>Bandwidth<br>[SCS (kHz)] | Modulation | Measured<br>Level (dBm) | Substitute Level<br>(dBm) | Ant. Gain<br>(dBi) | C.L  | Pol. | Limit  | EIRP  |       | RB   |        |
|---------------|----------------------------------|------------|-------------------------|---------------------------|--------------------|------|------|--------|-------|-------|------|--------|
|               |                                  |            |                         |                           |                    |      |      | W      | W     | dBm   | Size | Offset |
| 2510.0        | Sub6 n7/<br>20 MHz<br>[15 kHz]   | PI/2 BPSK  | -24.49                  | 14.04                     | 10.26              | 2.51 | H    | < 2.00 | 0.151 | 21.79 | 1    | 104    |
|               |                                  | QPSK       | -24.51                  | 14.02                     | 10.26              | 2.51 | H    |        | 0.150 | 21.77 |      |        |
|               |                                  | 16-QAM     | -25.39                  | 13.14                     | 10.26              | 2.51 | H    |        | 0.123 | 20.89 |      |        |
|               |                                  | 64-QAM     | -26.86                  | 11.67                     | 10.26              | 2.51 | H    |        | 0.088 | 19.42 |      |        |
|               |                                  | 256-QAM    | -28.47                  | 10.06                     | 10.26              | 2.51 | H    |        | 0.060 | 17.81 |      |        |
| 2535.0        |                                  | PI/2 BPSK  | -23.70                  | 15.14                     | 10.25              | 2.54 | H    |        | 0.193 | 22.85 | 1    | 104    |
|               |                                  | QPSK       | -23.85                  | 14.99                     | 10.25              | 2.54 | H    |        | 0.186 | 22.70 |      |        |
|               |                                  | 16-QAM     | -24.64                  | 14.20                     | 10.25              | 2.54 | H    |        | 0.155 | 21.91 |      |        |
|               |                                  | 64-QAM     | -26.00                  | 12.84                     | 10.25              | 2.54 | H    |        | 0.113 | 20.55 |      |        |
|               |                                  | 256-QAM    | -27.68                  | 11.16                     | 10.25              | 2.54 | H    |        | 0.077 | 18.87 |      |        |
| 2560.0        |                                  | PI/2 BPSK  | -23.53                  | 15.51                     | 10.26              | 2.59 | H    | 0.208  | 23.18 | 1     | 104  |        |
|               |                                  | QPSK       | -23.55                  | 15.49                     | 10.26              | 2.59 | H    | 0.207  | 23.16 |       |      |        |
|               |                                  | 16-QAM     | -24.28                  | 14.76                     | 10.26              | 2.59 | H    | 0.175  | 22.43 |       |      |        |
|               |                                  | 64-QAM     | -25.69                  | 13.35                     | 10.26              | 2.59 | H    | 0.127  | 21.02 |       |      |        |
|               |                                  | 256-QAM    | -27.36                  | 11.68                     | 10.26              | 2.59 | H    | 0.086  | 19.35 |       |      |        |

| Freq<br>(MHz) | Mod/<br>Bandwidth<br>[SCS (kHz)] | Modulation | Measured<br>Level (dBm) | Substitute Level<br>(dBm) | Ant. Gain<br>(dBi) | C.L  | Pol. | Limit  | EIRP  |       | RB   |        |
|---------------|----------------------------------|------------|-------------------------|---------------------------|--------------------|------|------|--------|-------|-------|------|--------|
|               |                                  |            |                         |                           |                    |      |      | W      | W     | dBm   | Size | Offset |
| 2512.5        | Sub6 n7/<br>25 MHz<br>[15 kHz]   | PI/2 BPSK  | -24.17                  | 14.40                     | 10.26              | 2.53 | H    | < 2.00 | 0.163 | 22.13 | 1    | 131    |
|               |                                  | QPSK       | -24.41                  | 14.16                     | 10.26              | 2.53 | H    |        | 0.154 | 21.89 |      |        |
|               |                                  | 16-QAM     | -25.26                  | 13.31                     | 10.26              | 2.53 | H    |        | 0.127 | 21.04 |      |        |
|               |                                  | 64-QAM     | -26.69                  | 11.88                     | 10.26              | 2.53 | H    |        | 0.091 | 19.61 |      |        |
|               |                                  | 256-QAM    | -28.34                  | 10.23                     | 10.26              | 2.53 | H    |        | 0.063 | 17.96 |      |        |
| 2535.0        |                                  | PI/2 BPSK  | -23.75                  | 15.09                     | 10.25              | 2.54 | H    |        | 0.191 | 22.80 | 1    | 131    |
|               |                                  | QPSK       | -23.80                  | 15.04                     | 10.25              | 2.54 | H    |        | 0.189 | 22.75 |      |        |
|               |                                  | 16-QAM     | -24.78                  | 14.06                     | 10.25              | 2.54 | H    |        | 0.150 | 21.77 |      |        |
|               |                                  | 64-QAM     | -26.23                  | 12.61                     | 10.25              | 2.54 | H    |        | 0.108 | 20.32 |      |        |
|               |                                  | 256-QAM    | -27.69                  | 11.15                     | 10.25              | 2.54 | H    |        | 0.077 | 18.86 |      |        |
| 2557.5        |                                  | PI/2 BPSK  | -23.75                  | 15.29                     | 10.26              | 2.59 | H    |        | 0.198 | 22.96 | 1    | 131    |
|               |                                  | QPSK       | -23.86                  | 15.18                     | 10.26              | 2.59 | H    |        | 0.193 | 22.85 |      |        |
|               |                                  | 16-QAM     | -24.46                  | 14.58                     | 10.26              | 2.59 | H    |        | 0.168 | 22.25 |      |        |
|               |                                  | 64-QAM     | -25.98                  | 13.06                     | 10.26              | 2.59 | H    |        | 0.118 | 20.73 |      |        |
|               |                                  | 256-QAM    | -27.61                  | 11.43                     | 10.26              | 2.59 | H    |        | 0.081 | 19.10 |      |        |

| Freq<br>(MHz) | Mod/<br>Bandwidth<br>[SCS (kHz)] | Modulation | Measured<br>Level (dBm) | Substitute Level<br>(dBm) | Ant. Gain<br>(dBi) | C.L  | Pol. | Limit  | EIRP  |       | RB   |        |
|---------------|----------------------------------|------------|-------------------------|---------------------------|--------------------|------|------|--------|-------|-------|------|--------|
|               |                                  |            |                         |                           |                    |      |      | W      | W     | dBm   | Size | Offset |
| 2515.0        | Sub6 n7/<br>30 MHz<br>[15 kHz]   | PI/2 BPSK  | -24.30                  | 14.27                     | 10.26              | 2.53 | H    | < 2.00 | 0.158 | 22.00 | 1    | 158    |
|               |                                  | QPSK       | -24.37                  | 14.20                     | 10.26              | 2.53 | H    |        | 0.156 | 21.93 |      |        |
|               |                                  | 16-QAM     | -25.30                  | 13.27                     | 10.26              | 2.53 | H    |        | 0.126 | 21.00 |      |        |
|               |                                  | 64-QAM     | -26.79                  | 11.78                     | 10.26              | 2.53 | H    |        | 0.089 | 19.51 |      |        |
|               |                                  | 256-QAM    | -28.26                  | 10.31                     | 10.26              | 2.53 | H    |        | 0.064 | 18.04 |      |        |
| 2535.0        |                                  | PI/2 BPSK  | -23.92                  | 14.92                     | 10.25              | 2.54 | H    |        | 0.183 | 22.63 | 1    | 80     |
|               |                                  | QPSK       | -23.95                  | 14.89                     | 10.25              | 2.54 | H    |        | 0.182 | 22.60 |      |        |
|               |                                  | 16-QAM     | -24.93                  | 13.91                     | 10.25              | 2.54 | H    |        | 0.145 | 21.62 |      |        |
|               |                                  | 64-QAM     | -26.37                  | 12.47                     | 10.25              | 2.54 | H    |        | 0.104 | 20.18 |      |        |
|               |                                  | 256-QAM    | -28.09                  | 10.75                     | 10.25              | 2.54 | H    |        | 0.070 | 18.46 |      |        |
| 2555.0        |                                  | PI/2 BPSK  | -23.93                  | 15.10                     | 10.25              | 2.56 | H    |        | 0.190 | 22.79 | 1    | 158    |
|               |                                  | QPSK       | -24.05                  | 14.98                     | 10.25              | 2.56 | H    |        | 0.185 | 22.67 |      |        |
|               |                                  | 16-QAM     | -24.40                  | 14.63                     | 10.25              | 2.56 | H    |        | 0.171 | 22.32 |      |        |
|               |                                  | 64-QAM     | -25.90                  | 13.13                     | 10.25              | 2.56 | H    |        | 0.121 | 20.82 |      |        |
|               |                                  | 256-QAM    | -27.68                  | 11.35                     | 10.25              | 2.56 | H    |        | 0.080 | 19.04 |      |        |

| Freq<br>(MHz) | Mod/<br>Bandwidth<br>[SCS (kHz)] | Modulation | Measured<br>Level (dBm) | Substitute Level<br>(dBm) | Ant. Gain<br>(dBi) | C.L  | Pol. | Limit  | EIRP  |       | RB   |        |
|---------------|----------------------------------|------------|-------------------------|---------------------------|--------------------|------|------|--------|-------|-------|------|--------|
|               |                                  |            |                         |                           |                    |      |      | W      | W     | dBm   | Size | Offset |
| 2520.0        | Sub6 n7/<br>40 MHz<br>[15 kHz]   | PI/2 BPSK  | -24.03                  | 14.57                     | 10.26              | 2.54 | H    | < 2.00 | 0.170 | 22.29 | 1    | 214    |
|               |                                  | QPSK       | -24.11                  | 14.49                     | 10.26              | 2.54 | H    |        | 0.166 | 22.21 |      |        |
|               |                                  | 16-QAM     | -25.10                  | 13.50                     | 10.26              | 2.54 | H    |        | 0.132 | 21.22 |      |        |
|               |                                  | 64-QAM     | -26.57                  | 12.03                     | 10.26              | 2.54 | H    |        | 0.094 | 19.75 |      |        |
|               |                                  | 256-QAM    | -28.06                  | 10.54                     | 10.26              | 2.54 | H    |        | 0.067 | 18.26 |      |        |
| 2535.0        |                                  | PI/2 BPSK  | -23.93                  | 14.91                     | 10.25              | 2.54 | H    |        | 0.183 | 22.62 | 1    | 214    |
|               |                                  | QPSK       | -23.98                  | 14.86                     | 10.25              | 2.54 | H    |        | 0.181 | 22.57 |      |        |
|               |                                  | 16-QAM     | -24.95                  | 13.89                     | 10.25              | 2.54 | H    |        | 0.145 | 21.60 |      |        |
|               |                                  | 64-QAM     | -26.38                  | 12.46                     | 10.25              | 2.54 | H    |        | 0.104 | 20.17 |      |        |
|               |                                  | 256-QAM    | -27.97                  | 10.87                     | 10.25              | 2.54 | H    |        | 0.072 | 18.58 |      |        |
| 2550.0        |                                  | PI/2 BPSK  | -23.68                  | 15.33                     | 10.24              | 2.53 | H    |        | 0.202 | 23.04 | 1    | 214    |
|               |                                  | QPSK       | -24.04                  | 14.97                     | 10.24              | 2.53 | H    |        | 0.185 | 22.68 |      |        |
|               |                                  | 16-QAM     | -24.62                  | 14.39                     | 10.24              | 2.53 | H    |        | 0.162 | 22.10 |      |        |
|               |                                  | 64-QAM     | -25.92                  | 13.09                     | 10.24              | 2.53 | H    |        | 0.120 | 20.80 |      |        |
|               |                                  | 256-QAM    | -28.01                  | 11.00                     | 10.24              | 2.53 | H    |        | 0.074 | 18.71 |      |        |

| Freq<br>(MHz) | Mod/<br>Bandwidth<br>[SCS (kHz)] | Modulation | Measured<br>Level (dBm) | Substitute Level<br>(dBm) | Ant. Gain<br>(dBi) | C.L  | Pol. | Limit  | EIRP  |       | RB   |        |
|---------------|----------------------------------|------------|-------------------------|---------------------------|--------------------|------|------|--------|-------|-------|------|--------|
|               |                                  |            |                         |                           |                    |      |      | W      | W     | dBm   | Size | Offset |
| 2525.0        |                                  | PI/2 BPSK  | -24.41                  | 14.27                     | 10.25              | 2.54 | H    |        | 0.158 | 21.98 | 1    | 268    |
|               |                                  | QPSK       | -24.43                  | 14.25                     | 10.25              | 2.54 | H    |        | 0.157 | 21.96 |      |        |
|               |                                  | 16-QAM     | -25.41                  | 13.27                     | 10.25              | 2.54 | H    |        | 0.125 | 20.98 |      |        |
|               |                                  | 64-QAM     | -26.86                  | 11.82                     | 10.25              | 2.54 | H    |        | 0.090 | 19.53 |      |        |
|               |                                  | 256-QAM    | -28.04                  | 10.64                     | 10.25              | 2.54 | H    |        | 0.068 | 18.35 |      |        |
| 2535.0        | Sub6 n7/<br>50 MHz<br>[15 kHz]   | PI/2 BPSK  | -23.86                  | 14.98                     | 10.25              | 2.54 | H    | < 2.00 | 0.186 | 22.69 | 1    | 268    |
|               |                                  | QPSK       | -23.89                  | 14.95                     | 10.25              | 2.54 | H    |        | 0.185 | 22.66 |      |        |
|               |                                  | 16-QAM     | -24.73                  | 14.11                     | 10.25              | 2.54 | H    |        | 0.152 | 21.82 |      |        |
|               |                                  | 64-QAM     | -26.28                  | 12.56                     | 10.25              | 2.54 | H    |        | 0.106 | 20.27 |      |        |
|               |                                  | 256-QAM    | -27.83                  | 11.01                     | 10.25              | 2.54 | H    |        | 0.074 | 18.72 |      |        |
| 2545.0        |                                  | PI/2 BPSK  | -23.98                  | 14.98                     | 10.25              | 2.53 | H    |        | 0.186 | 22.70 | 1    | 268    |
|               |                                  | QPSK       | -24.16                  | 14.80                     | 10.25              | 2.53 | H    |        | 0.179 | 22.52 |      |        |
|               |                                  | 16-QAM     | -24.70                  | 14.26                     | 10.25              | 2.53 | H    |        | 0.158 | 21.98 |      |        |
|               |                                  | 64-QAM     | -26.16                  | 12.80                     | 10.25              | 2.53 | H    |        | 0.113 | 20.52 |      |        |
|               |                                  | 256-QAM    | -27.92                  | 11.04                     | 10.25              | 2.53 | H    |        | 0.075 | 18.76 |      |        |

## 9.2 RADIATED SPURIOUS EMISSIONS

|             |                  |
|-------------|------------------|
| NR Band:    | <u>N7</u>        |
| Bandwidth:  | <u>5 MHz</u>     |
| Modulation: | <u>PI/2 BPSK</u> |
| Distance:   | <u>1 meters</u>  |
| SCS:        | <u>15 kHz</u>    |

| Ch                 | Freq (MHz) | Measured Level (dBm) | Ant. Gain (dBi) | Substitute Level (dBm) | C.L  | Pol | Result (dBm) | Limit (dBm)   | RB       |           |
|--------------------|------------|----------------------|-----------------|------------------------|------|-----|--------------|---------------|----------|-----------|
|                    |            |                      |                 |                        |      |     |              |               | Size     | Offset    |
| 500500<br>(2502.5) | 5 005.00   | -55.42               | 10.91           | -61.96                 | 3.71 | H   | -54.76       | <b>-25.00</b> | <b>1</b> | <b>12</b> |
|                    | 7 507.50   | -53.71               | 11.59           | -55.82                 | 4.60 | V   | -48.83       |               |          |           |
|                    | 10 010.00  | -54.11               | 11.39           | -53.70                 | 5.47 | H   | -47.78       |               |          |           |
|                    | 12 512.50  | -55.25               | 13.16           | -51.73                 | 6.09 | V   | -44.66       |               |          |           |
|                    | 15 015.00  | -62.60               | 14.28           | -44.48                 | 6.76 | V   | -36.96       |               |          |           |
| 507000<br>(2535.0) | 5 070.00   | -54.63               | 10.92           | -61.39                 | 3.80 | H   | -54.27       |               | <b>1</b> | <b>12</b> |
|                    | 7 605.00   | -53.78               | 11.66           | -55.97                 | 4.64 | V   | -48.95       |               |          |           |
|                    | 10 140.00  | -53.88               | 11.34           | -53.24                 | 5.48 | V   | -47.38       |               |          |           |
|                    | 12 675.00  | -56.62               | 12.88           | -52.59                 | 6.24 | V   | -45.95       |               |          |           |
|                    | 15 210.00  | -63.03               | 14.81           | -44.61                 | 6.81 | H   | -36.61       |               |          |           |
| 513500<br>(2567.5) | 5 135.00   | -53.85               | 11.04           | -60.96                 | 3.81 | V   | -53.73       |               | <b>1</b> | <b>12</b> |
|                    | 7 702.50   | -54.96               | 11.56           | -56.62                 | 4.66 | H   | -49.72       |               |          |           |
|                    | 10 270.00  | -54.58               | 11.46           | -53.94                 | 5.57 | H   | -48.05       |               |          |           |
|                    | 12 837.50  | -56.54               | 12.73           | -51.92                 | 6.24 | H   | -45.43       |               |          |           |
|                    | 15 405.00  | -62.80               | 15.34           | -43.65                 | 6.85 | V   | -35.16       |               |          |           |

☐ NR Band: N7  
☐ Bandwidth: 10 MHz  
☐ Modulation: PI/2 BPSK  
☐ Distance: 1 meters  
☐ SCS: 15 kHz

| Ch                 | Freq (MHz) | Measured Level (dBm) | Ant. Gain (dBi) | Substitute Level (dBm) | C.L  | Pol | Result (dBm) | Limit (dBm) | RB   |        |
|--------------------|------------|----------------------|-----------------|------------------------|------|-----|--------------|-------------|------|--------|
|                    |            |                      |                 |                        |      |     |              |             | Size | Offset |
| 501000<br>(2505.0) | 5 010.00   | -55.82               | 10.91           | -62.41                 | 3.72 | H   | -55.22       | -25.00      | 1    | 26     |
|                    | 7 515.00   | -54.51               | 11.59           | -56.75                 | 4.60 | V   | -49.76       |             |      |        |
|                    | 10 020.00  | -54.01               | 11.39           | -53.16                 | 5.47 | H   | -47.24       |             |      |        |
|                    | 12 525.00  | -55.94               | 13.14           | -52.46                 | 6.09 | H   | -45.41       |             |      |        |
|                    | 15 030.00  | -62.29               | 14.32           | -44.48                 | 6.73 | H   | -36.89       |             |      |        |
| 507000<br>(2535.0) | 5 070.00   | -54.85               | 10.92           | -61.61                 | 3.80 | V   | -54.49       |             | 1    | 26     |
|                    | 7 605.00   | -53.68               | 11.66           | -55.87                 | 4.64 | V   | -48.85       |             |      |        |
|                    | 10 140.00  | -53.48               | 11.34           | -52.84                 | 5.48 | V   | -46.98       |             |      |        |
|                    | 12 675.00  | -57.37               | 12.88           | -53.34                 | 6.24 | H   | -46.70       |             |      |        |
|                    | 15 210.00  | -62.33               | 14.81           | -43.91                 | 6.81 | H   | -35.91       |             |      |        |
| 513000<br>(2565.0) | 5 130.00   | -53.50               | 11.02           | -60.41                 | 3.81 | H   | -53.20       |             | 1    | 1      |
|                    | 7 695.00   | -54.56               | 11.58           | -56.39                 | 4.66 | H   | -49.47       |             |      |        |
|                    | 10 260.00  | -54.48               | 11.44           | -53.81                 | 5.56 | H   | -47.93       |             |      |        |
|                    | 12 825.00  | -56.94               | 12.74           | -52.59                 | 6.21 | H   | -46.06       |             |      |        |
|                    | 15 390.00  | -63.10               | 15.30           | -43.87                 | 6.85 | V   | -35.42       |             |      |        |

☐ NR Band: N7  
☐ Bandwidth: 15 MHz  
☐ Modulation: PI/2 BPSK  
☐ Distance: 1 meters  
☐ SCS: 15 kHz

| Ch                 | Freq (MHz) | Measured Level (dBm) | Ant. Gain (dBi) | Substitute Level (dBm) | C.L  | Pol | Result (dBm) | Limit (dBm) | RB   |        |
|--------------------|------------|----------------------|-----------------|------------------------|------|-----|--------------|-------------|------|--------|
|                    |            |                      |                 |                        |      |     |              |             | Size | Offset |
| 501500<br>(2507.5) | 5 015.00   | -55.82               | 10.91           | -62.37                 | 3.70 | H   | -55.16       | -25.00      | 1    | 77     |
|                    | 7 522.50   | -53.91               | 11.60           | -56.29                 | 4.61 | V   | -49.30       |             |      |        |
|                    | 10 030.00  | -54.52               | 11.39           | -53.87                 | 5.47 | V   | -47.95       |             |      |        |
|                    | 12 537.50  | -54.55               | 13.13           | -50.97                 | 6.13 | V   | -43.97       |             |      |        |
|                    | 15 045.00  | -62.30               | 14.35           | -44.41                 | 6.75 | V   | -36.81       |             |      |        |
| 507000<br>(2535.0) | 5 070.00   | -55.43               | 10.92           | -62.19                 | 3.80 | H   | -55.07       |             | 1    | 39     |
|                    | 7 605.00   | -53.88               | 11.66           | -56.07                 | 4.64 | V   | -49.05       |             |      |        |
|                    | 10 140.00  | -53.28               | 11.34           | -52.64                 | 5.48 | V   | -46.78       |             |      |        |
|                    | 12 675.00  | -56.72               | 12.88           | -52.69                 | 6.24 | V   | -46.05       |             |      |        |
|                    | 15 210.00  | -62.63               | 14.81           | -44.21                 | 6.81 | H   | -36.21       |             |      |        |
| 512500<br>(2562.5) | 5 125.00   | -53.40               | 11.01           | -60.41                 | 3.81 | H   | -53.21       |             | 1    | 1      |
|                    | 7 687.50   | -54.26               | 11.58           | -56.14                 | 4.66 | H   | -49.22       |             |      |        |
|                    | 10 250.00  | -55.09               | 11.42           | -54.72                 | 5.54 | V   | -48.84       |             |      |        |
|                    | 12 812.50  | -57.24               | 12.74           | -52.98                 | 6.20 | H   | -46.44       |             |      |        |
|                    | 15 375.00  | -63.00               | 15.26           | -43.77                 | 6.87 | H   | -35.38       |             |      |        |

☐ NR Band: N7  
☐ Bandwidth: 20 MHz  
☐ Modulation: PI/2 BPSK  
☐ Distance: 1 meters  
☐ SCS: 15 kHz

| Ch                 | Freq (MHz) | Measured Level (dBm) | Ant. Gain (dBi) | Substitute Level (dBm) | C.L  | Pol | Result (dBm) | Limit (dBm) | RB   |        |
|--------------------|------------|----------------------|-----------------|------------------------|------|-----|--------------|-------------|------|--------|
|                    |            |                      |                 |                        |      |     |              |             | Size | Offset |
| 502000<br>(2510.0) | 5 020.00   | -55.04               | 10.90           | -61.52                 | 3.69 | H   | -54.31       | -25.00      | 1    | 104    |
|                    | 7 530.00   | -54.30               | 11.61           | -56.71                 | 4.60 | H   | -49.70       |             |      |        |
|                    | 10 040.00  | -53.76               | 11.38           | -53.24                 | 5.49 | H   | -47.35       |             |      |        |
|                    | 12 550.00  | -55.57               | 13.11           | -51.93                 | 6.19 | H   | -45.01       |             |      |        |
|                    | 15 060.00  | -61.05               | 14.39           | -43.09                 | 6.78 | H   | -35.48       |             |      |        |
| 507000<br>(2535.0) | 5 070.00   | -54.97               | 10.92           | -61.73                 | 3.80 | V   | -54.61       |             | 1    | 104    |
|                    | 7 605.00   | -54.62               | 11.66           | -56.81                 | 4.64 | V   | -49.79       |             |      |        |
|                    | 10 140.00  | -54.43               | 11.34           | -53.79                 | 5.48 | V   | -47.93       |             |      |        |
|                    | 12 675.00  | -56.35               | 12.88           | -52.32                 | 6.24 | H   | -45.68       |             |      |        |
|                    | 15 210.00  | -62.34               | 14.81           | -43.92                 | 6.81 | H   | -35.92       |             |      |        |
| 512000<br>(2560.0) | 5 120.00   | -54.50               | 11.00           | -61.61                 | 3.81 | H   | -54.42       |             | 1    | 104    |
|                    | 7 680.00   | -53.78               | 11.60           | -55.75                 | 4.70 | H   | -48.85       |             |      |        |
|                    | 10 240.00  | -53.68               | 11.41           | -53.25                 | 5.54 | H   | -47.38       |             |      |        |
|                    | 12 800.00  | -55.20               | 12.75           | -50.94                 | 6.21 | H   | -44.40       |             |      |        |
|                    | 15 360.00  | -62.40               | 15.21           | -42.84                 | 6.88 | H   | -34.51       |             |      |        |

☐ NR Band: N7  
☐ Bandwidth: 25 MHz  
☐ Modulation: PI/2 BPSK  
☐ Distance: 1 meters  
☐ SCS: 15 kHz

| Ch                 | Freq (MHz) | Measured Level (dBm) | Ant. Gain (dBi) | Substitute Level (dBm) | C.L  | Pol | Result (dBm) | Limit (dBm) | RB   |        |
|--------------------|------------|----------------------|-----------------|------------------------|------|-----|--------------|-------------|------|--------|
|                    |            |                      |                 |                        |      |     |              |             | Size | Offset |
| 502500<br>(2512.5) | 5 025.00   | -55.18               | 10.90           | -61.89                 | 3.68 | V   | -54.67       | -25.00      | 1    | 131    |
|                    | 7 537.50   | -54.57               | 11.62           | -57.01                 | 4.61 | V   | -50.00       |             |      |        |
|                    | 10 050.00  | -53.66               | 11.38           | -53.22                 | 5.48 | H   | -47.32       |             |      |        |
|                    | 12 562.50  | -54.97               | 13.09           | -51.31                 | 6.24 | H   | -44.46       |             |      |        |
|                    | 15 075.00  | -60.95               | 14.42           | -42.91                 | 6.82 | H   | -35.31       |             |      |        |
| 507000<br>(2535.0) | 5 070.00   | -56.89               | 10.92           | -63.65                 | 3.80 | H   | -56.53       |             | 1    | 131    |
|                    | 7 605.00   | -54.81               | 11.66           | -57.00                 | 4.64 | H   | -49.98       |             |      |        |
|                    | 10 140.00  | -54.04               | 11.34           | -53.40                 | 5.48 | V   | -47.54       |             |      |        |
|                    | 12 675.00  | -56.27               | 12.88           | -52.24                 | 6.24 | V   | -45.60       |             |      |        |
|                    | 15 210.00  | -63.04               | 14.81           | -44.62                 | 6.81 | H   | -36.62       |             |      |        |
| 511500<br>(2557.5) | 5 115.00   | -53.80               | 10.98           | -60.93                 | 3.80 | H   | -53.75       |             | 1    | 131    |
|                    | 7 672.50   | -54.24               | 11.60           | -56.21                 | 4.70 | V   | -49.31       |             |      |        |
|                    | 10 230.00  | -53.38               | 11.39           | -52.91                 | 5.54 | H   | -47.06       |             |      |        |
|                    | 12 787.50  | -54.90               | 12.76           | -50.63                 | 6.22 | H   | -44.09       |             |      |        |
|                    | 15 345.00  | -61.80               | 15.17           | -42.72                 | 6.86 | H   | -34.41       |             |      |        |

☐ NR Band: N7  
☐ Bandwidth: 30 MHz  
☐ Modulation: PI/2 BPSK  
☐ Distance: 1 meters  
☐ SCS: 15 kHz

| Ch                 | Freq (MHz) | Measured Level (dBm) | Ant. Gain (dBi) | Substitute Level (dBm) | C.L  | Pol | Result (dBm) | Limit (dBm) | RB   |        |
|--------------------|------------|----------------------|-----------------|------------------------|------|-----|--------------|-------------|------|--------|
|                    |            |                      |                 |                        |      |     |              |             | Size | Offset |
| 503000<br>(2515.0) | 5 030.00   | -55.37               | 10.90           | -62.31                 | 3.67 | V   | -55.08       | -25.00      | 1    | 158    |
|                    | 7 545.00   | -53.57               | 11.63           | -55.99                 | 4.62 | V   | -48.98       |             |      |        |
|                    | 10 060.00  | -53.46               | 11.37           | -52.83                 | 5.48 | H   | -46.94       |             |      |        |
|                    | 12 575.00  | -54.87               | 13.07           | -51.20                 | 6.25 | H   | -44.38       |             |      |        |
|                    | 15 090.00  | -61.45               | 14.46           | -43.73                 | 6.81 | V   | -36.08       |             |      |        |
| 507000<br>(2535.0) | 5 070.00   | -56.17               | 10.92           | -62.93                 | 3.80 | V   | -55.81       |             | 1    | 80     |
|                    | 7 605.00   | -54.51               | 11.66           | -56.70                 | 4.64 | H   | -49.68       |             |      |        |
|                    | 10 140.00  | -54.64               | 11.34           | -54.00                 | 5.48 | V   | -48.14       |             |      |        |
|                    | 12 675.00  | -56.57               | 12.88           | -52.54                 | 6.24 | V   | -45.90       |             |      |        |
|                    | 15 210.00  | -62.04               | 14.81           | -43.62                 | 6.81 | H   | -35.62       |             |      |        |
| 511000<br>(2555.0) | 5 110.00   | -54.70               | 10.97           | -61.86                 | 3.79 | H   | -54.68       |             | 1    | 158    |
|                    | 7 665.00   | -54.86               | 11.62           | -56.83                 | 4.70 | H   | -49.91       |             |      |        |
|                    | 10 220.00  | -54.33               | 11.38           | -53.87                 | 5.54 | V   | -48.03       |             |      |        |
|                    | 12 775.00  | -55.00               | 12.76           | -50.80                 | 6.23 | H   | -44.27       |             |      |        |
|                    | 15 330.00  | -62.60               | 15.13           | -43.85                 | 6.82 | H   | -35.54       |             |      |        |

☐ NR Band: N7  
☐ Bandwidth: 40 MHz  
☐ Modulation: PI/2 BPSK  
☐ Distance: 1 meters  
☐ SCS: 15 kHz

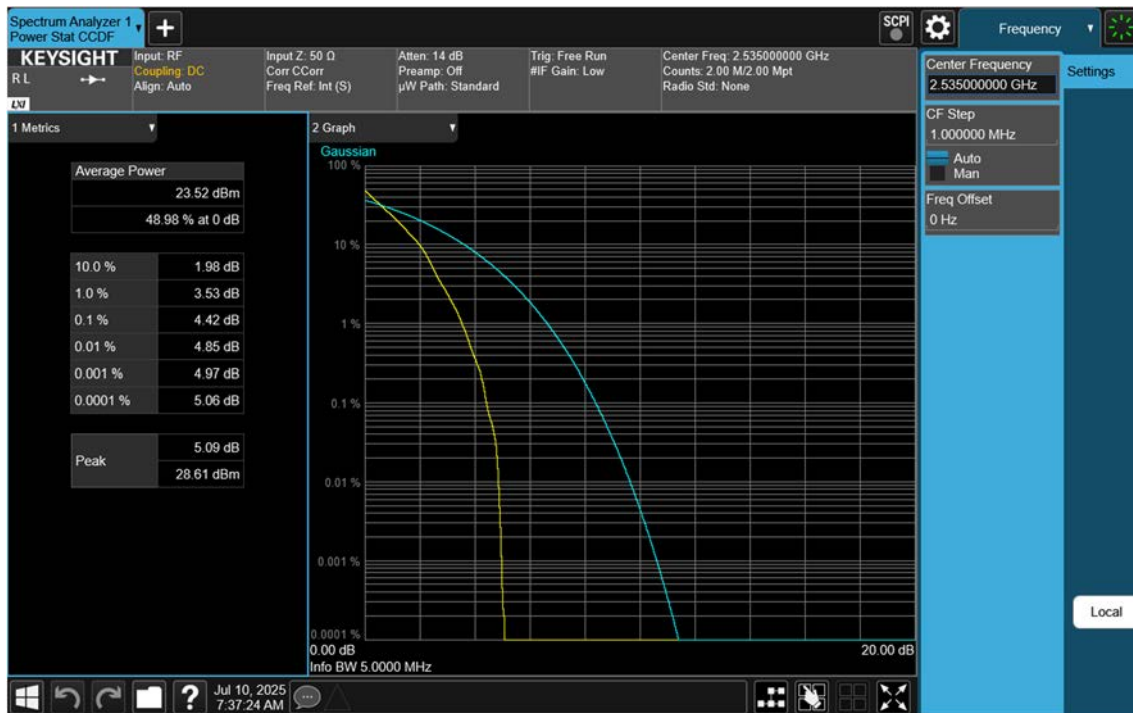
| Ch                 | Freq (MHz) | Measured Level (dBm) | Ant. Gain (dBi) | Substitute Level (dBm) | C.L  | Pol | Result (dBm) | Limit (dBm) | RB   |        |
|--------------------|------------|----------------------|-----------------|------------------------|------|-----|--------------|-------------|------|--------|
|                    |            |                      |                 |                        |      |     |              |             | Size | Offset |
| 504000<br>(2520.0) | 5 040.00   | -55.25               | 10.90           | -61.92                 | 3.68 | V   | -54.70       | -25.00      | 1    | 214    |
|                    | 7 560.00   | -54.77               | 11.64           | -56.96                 | 4.64 | V   | -49.96       |             |      |        |
|                    | 10 080.00  | -53.94               | 11.37           | -53.57                 | 5.47 | V   | -47.67       |             |      |        |
|                    | 12 600.00  | -55.81               | 13.03           | -52.03                 | 6.18 | V   | -45.18       |             |      |        |
|                    | 15 120.00  | -60.35               | 14.54           | -42.34                 | 6.80 | H   | -34.60       |             |      |        |
| 507000<br>(2535.0) | 5 070.00   | -56.27               | 10.92           | -63.03                 | 3.80 | V   | -55.91       |             | 1    | 214    |
|                    | 7 605.00   | -54.31               | 11.66           | -56.50                 | 4.64 | H   | -49.48       |             |      |        |
|                    | 10 140.00  | -54.44               | 11.34           | -53.80                 | 5.48 | V   | -47.94       |             |      |        |
|                    | 12 675.00  | -56.57               | 12.88           | -52.54                 | 6.24 | V   | -45.90       |             |      |        |
|                    | 15 210.00  | -61.84               | 14.81           | -43.42                 | 6.81 | H   | -35.42       |             |      |        |
| 510000<br>(2550.0) | 5 100.00   | -55.50               | 10.95           | -62.22                 | 3.78 | H   | -55.05       |             | 1    | 214    |
|                    | 7 650.00   | -53.46               | 11.64           | -55.53                 | 4.68 | H   | -48.57       |             |      |        |
|                    | 10 200.00  | -53.48               | 11.35           | -52.96                 | 5.54 | H   | -47.15       |             |      |        |
|                    | 12 750.00  | -56.30               | 12.78           | -52.17                 | 6.23 | H   | -45.62       |             |      |        |
|                    | 15 300.00  | -61.70               | 15.06           | -42.89                 | 6.83 | H   | -34.66       |             |      |        |

☐ NR Band: N7  
☐ Bandwidth: 50 MHz  
☐ Modulation: PI/2 BPSK  
☐ Distance: 1 meters  
☐ SCS: 15 kHz

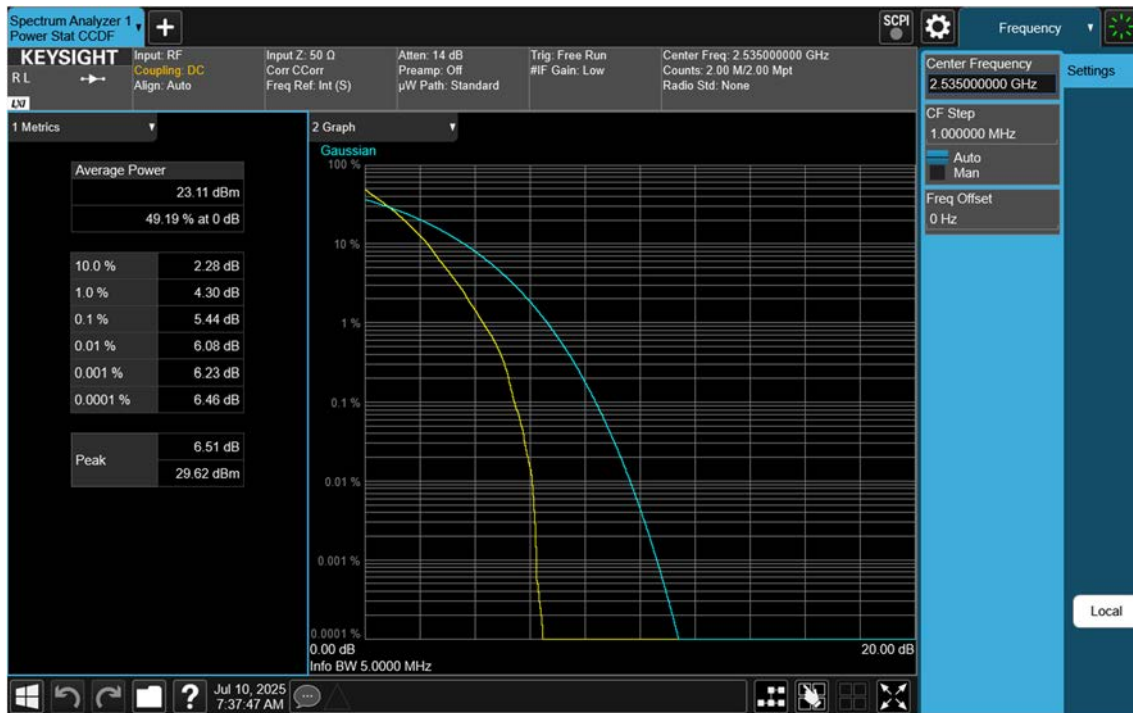
| Ch                 | Freq (MHz) | Measured Level (dBm) | Ant. Gain (dBi) | Substitute Level (dBm) | C.L  | Pol | Result (dBm) | Limit (dBm) | RB   |        |
|--------------------|------------|----------------------|-----------------|------------------------|------|-----|--------------|-------------|------|--------|
|                    |            |                      |                 |                        |      |     |              |             | Size | Offset |
| 505000<br>(2525.0) | 5 050.00   | -55.11               | 10.90           | -61.84                 | 3.73 | V   | -54.67       | -25.00      | 1    | 268    |
|                    | 7 575.00   | -53.47               | 11.65           | -55.71                 | 4.65 | V   | -48.71       |             |      |        |
|                    | 10 100.00  | -53.54               | 11.36           | -52.90                 | 5.46 | V   | -47.00       |             |      |        |
|                    | 12 625.00  | -55.37               | 12.98           | -51.46                 | 6.22 | H   | -44.70       |             |      |        |
|                    | 15 150.00  | -61.75               | 14.61           | -43.64                 | 6.80 | H   | -35.83       |             |      |        |
| 507000<br>(2535.0) | 5 070.00   | -55.77               | 10.92           | -62.53                 | 3.80 | V   | -55.41       |             | 1    | 268    |
|                    | 7 605.00   | -54.99               | 11.66           | -57.18                 | 4.64 | V   | -50.16       |             |      |        |
|                    | 10 140.00  | -54.64               | 11.34           | -54.00                 | 5.48 | V   | -48.14       |             |      |        |
|                    | 12 675.00  | -57.77               | 12.88           | -53.74                 | 6.24 | V   | -47.10       |             |      |        |
|                    | 15 210.00  | -63.04               | 14.81           | -44.62                 | 6.81 | H   | -36.62       |             |      |        |
| 509000<br>(2545.0) | 5 090.00   | -54.90               | 10.94           | -61.77                 | 3.78 | H   | -54.61       |             | 1    | 268    |
|                    | 7 635.00   | -54.94               | 11.64           | -57.04                 | 4.67 | V   | -50.07       |             |      |        |
|                    | 10 180.00  | -53.83               | 11.34           | -53.17                 | 5.51 | V   | -47.34       |             |      |        |
|                    | 12 725.00  | -55.70               | 12.81           | -52.01                 | 6.21 | H   | -45.41       |             |      |        |
|                    | 15 270.00  | -63.00               | 14.99           | -44.47                 | 6.82 | H   | -36.30       |             |      |        |

## 10. TEST PLOTS

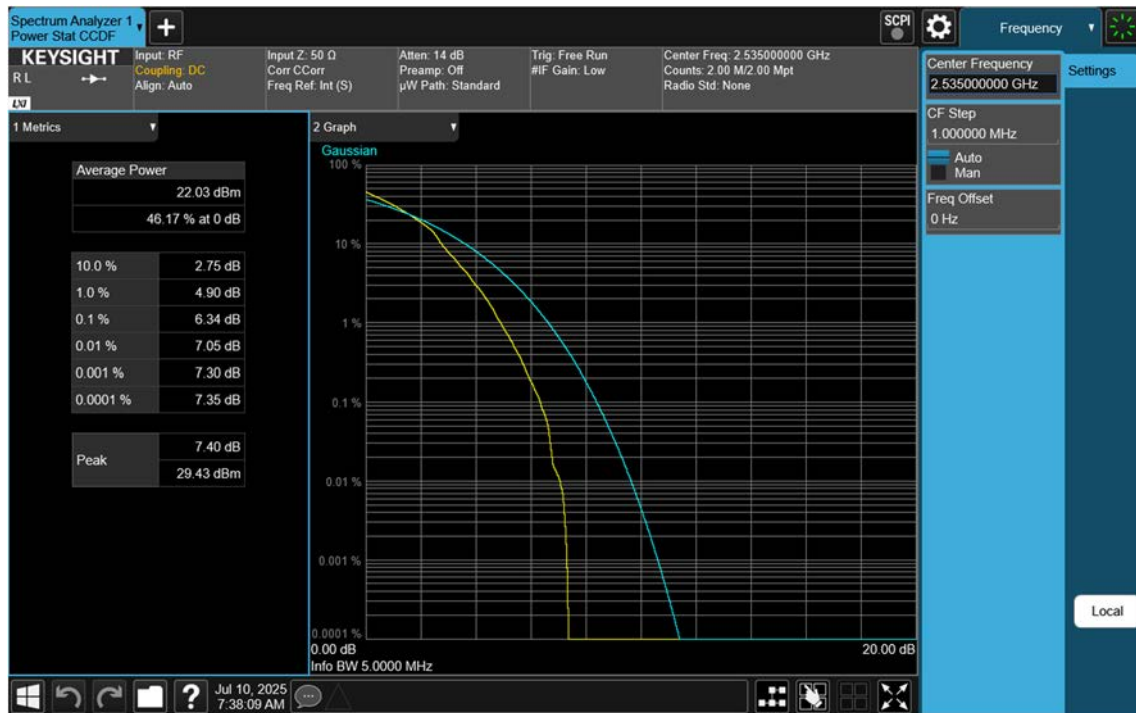
## NR7\_5 M\_PAR\_Mid\_BPSK\_FullRB



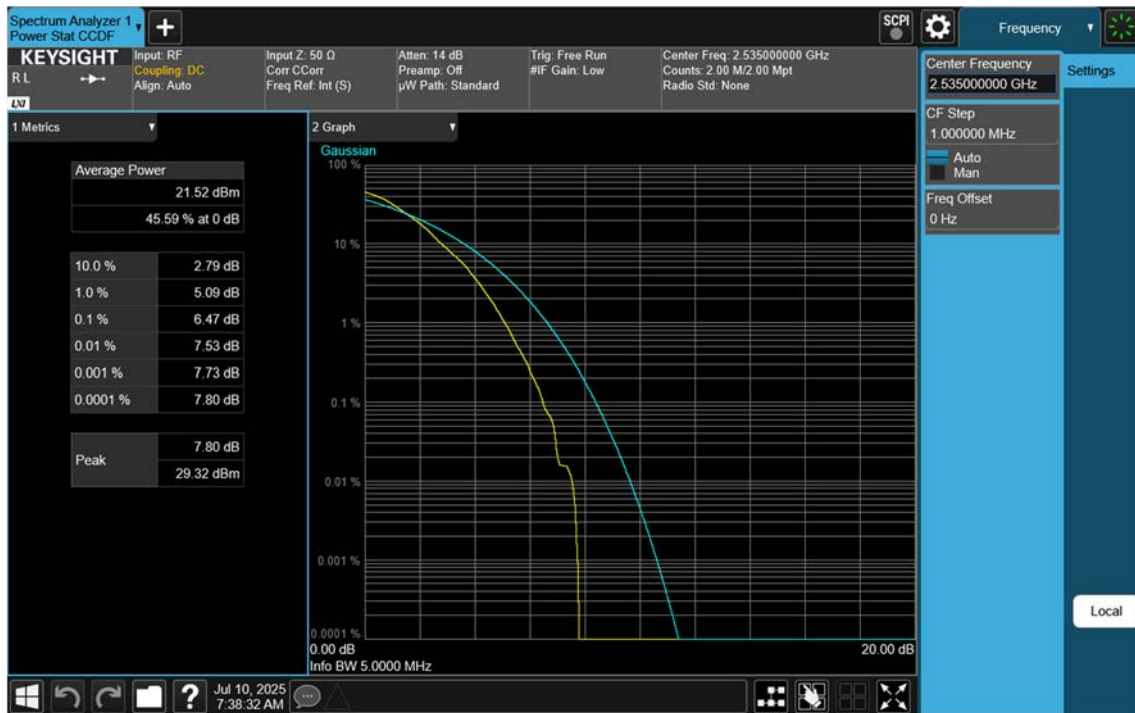
## NR7\_5 M\_PAR\_Mid\_QPSK\_FullRB



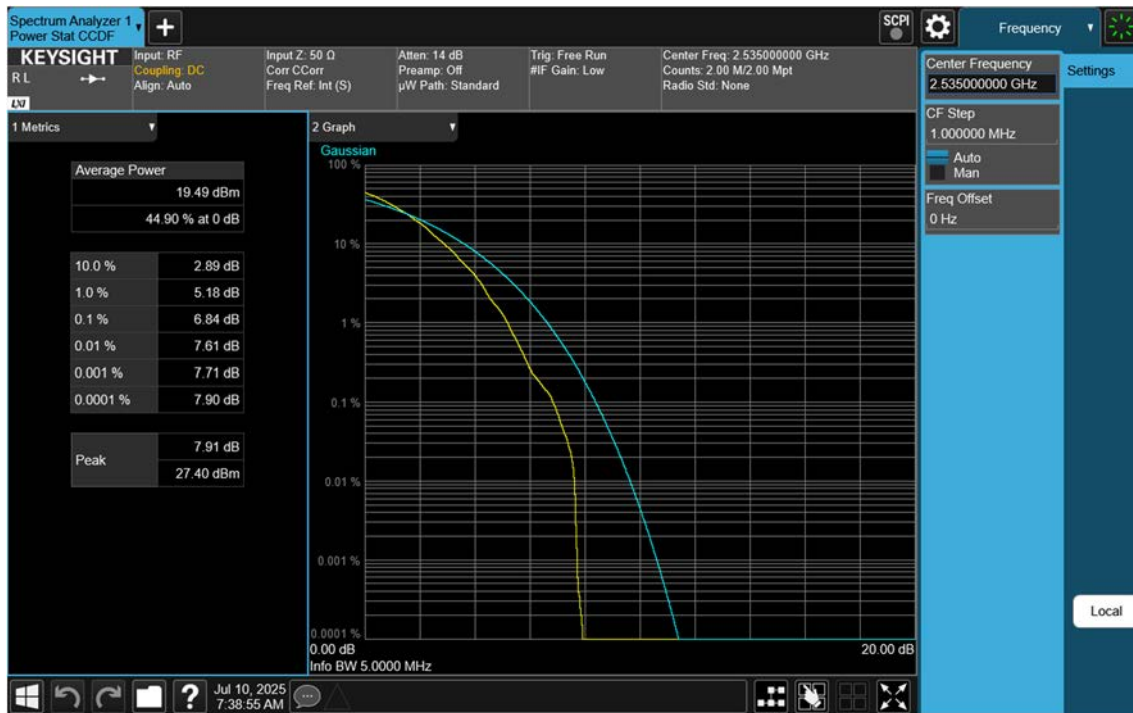
## NR7\_5 M\_PAR\_Mid\_16QAM\_FullRB



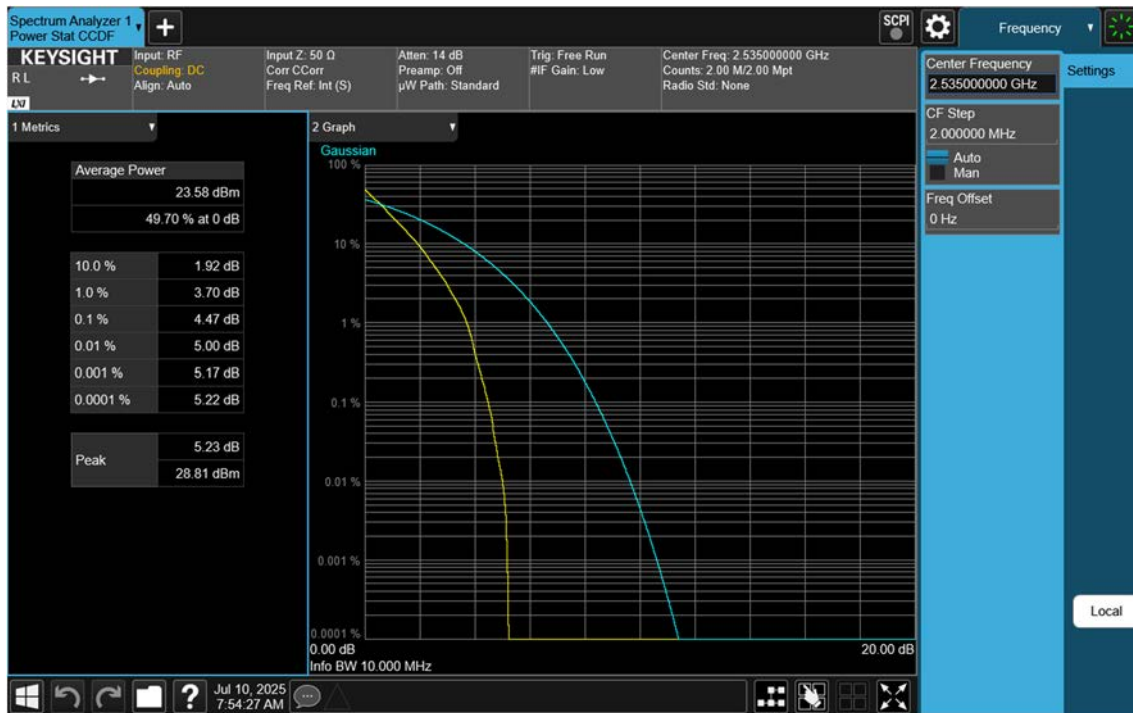
## NR7\_5 M\_PAR\_Mid\_64QAM\_FullRB



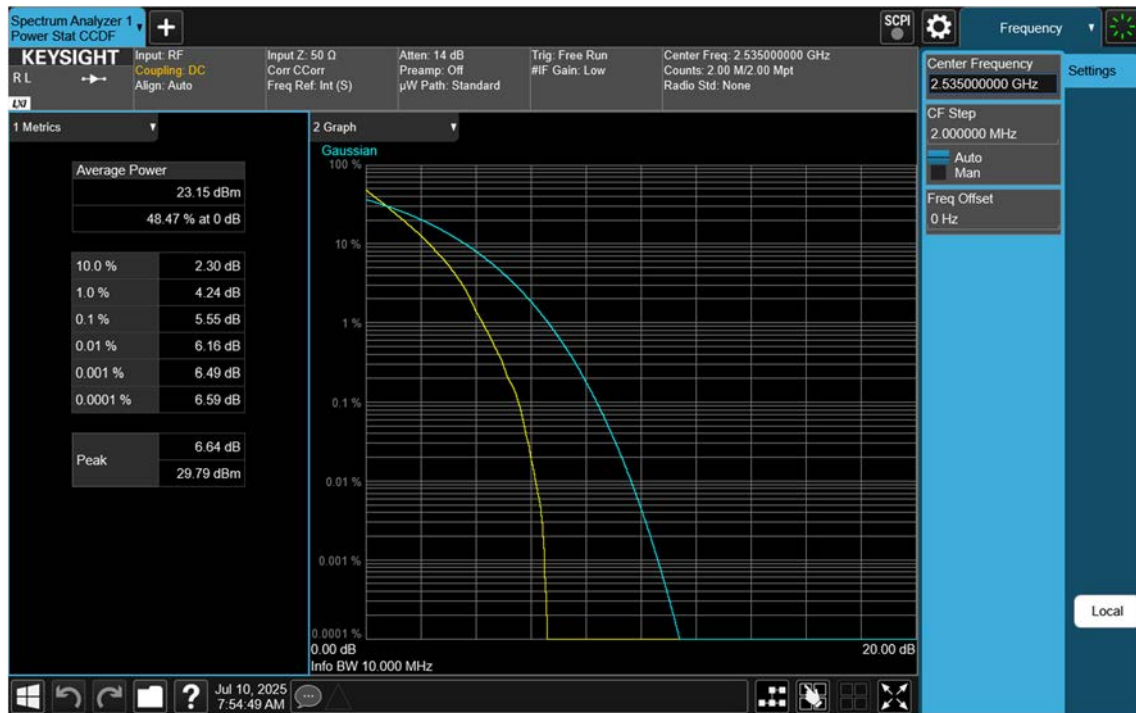
NR7\_5 M\_PAR\_Mid\_256QAM\_FullRB



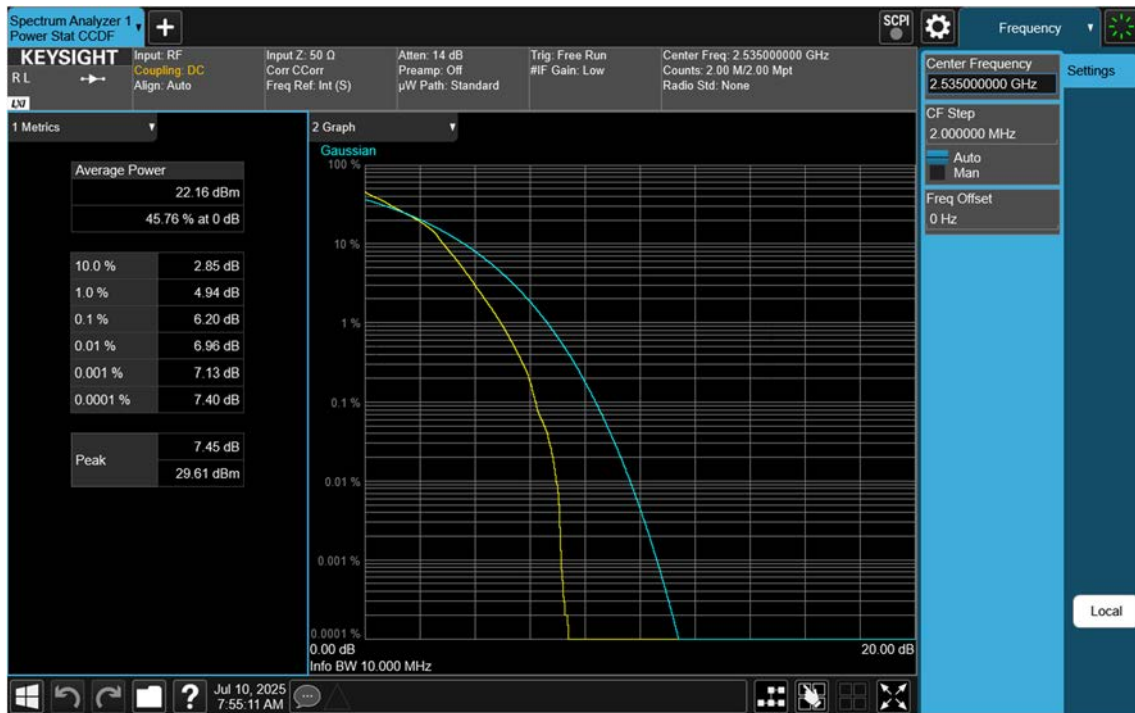
## NR7\_10 M\_PAR\_Mid\_BPSK\_FullRB



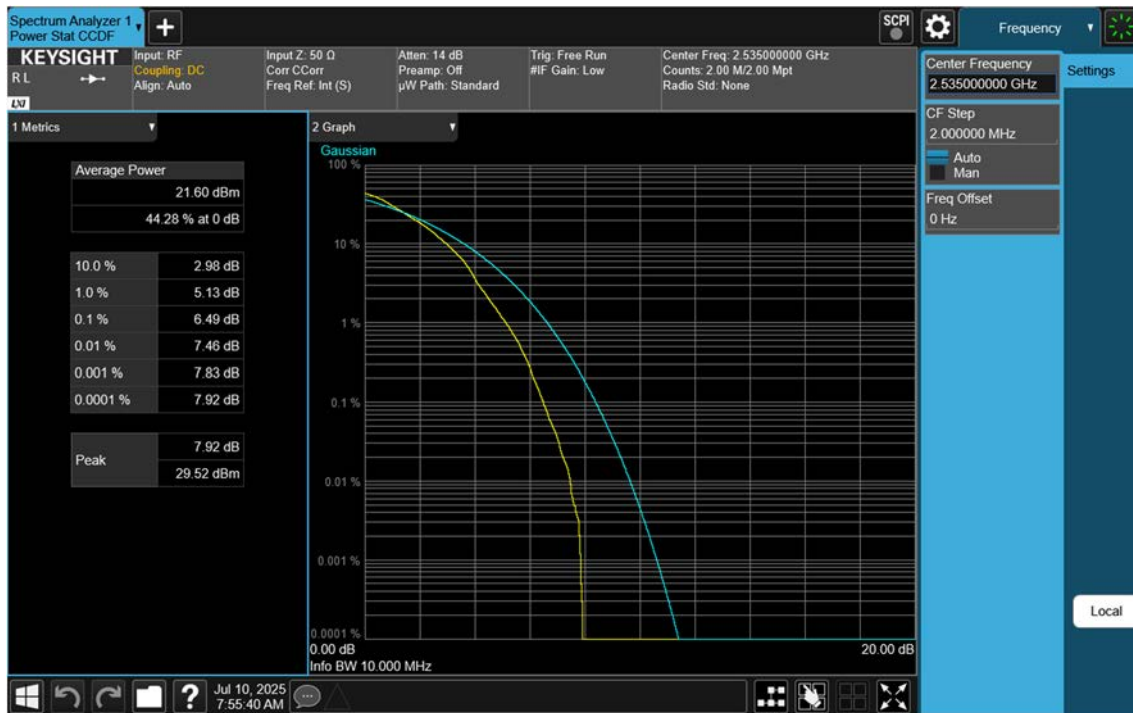
NR7\_10 M\_PAR\_Mid\_QPSK\_FullIRB



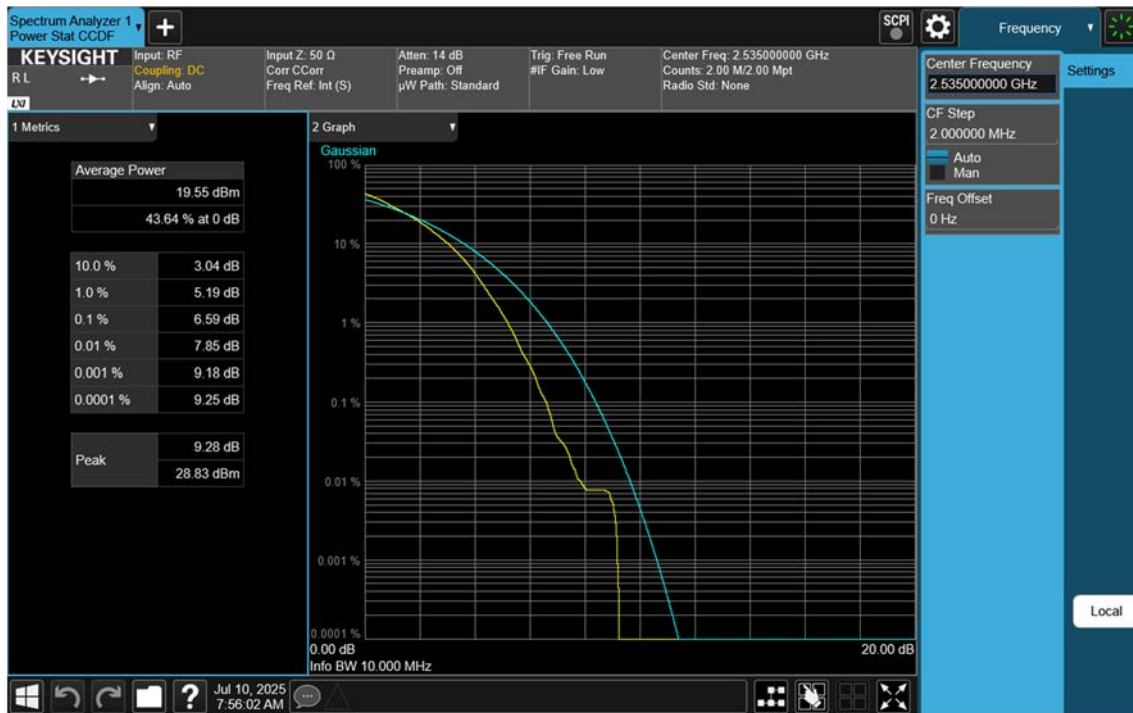
NR7\_10 M\_PAR\_Mid\_16QAM\_FullRB



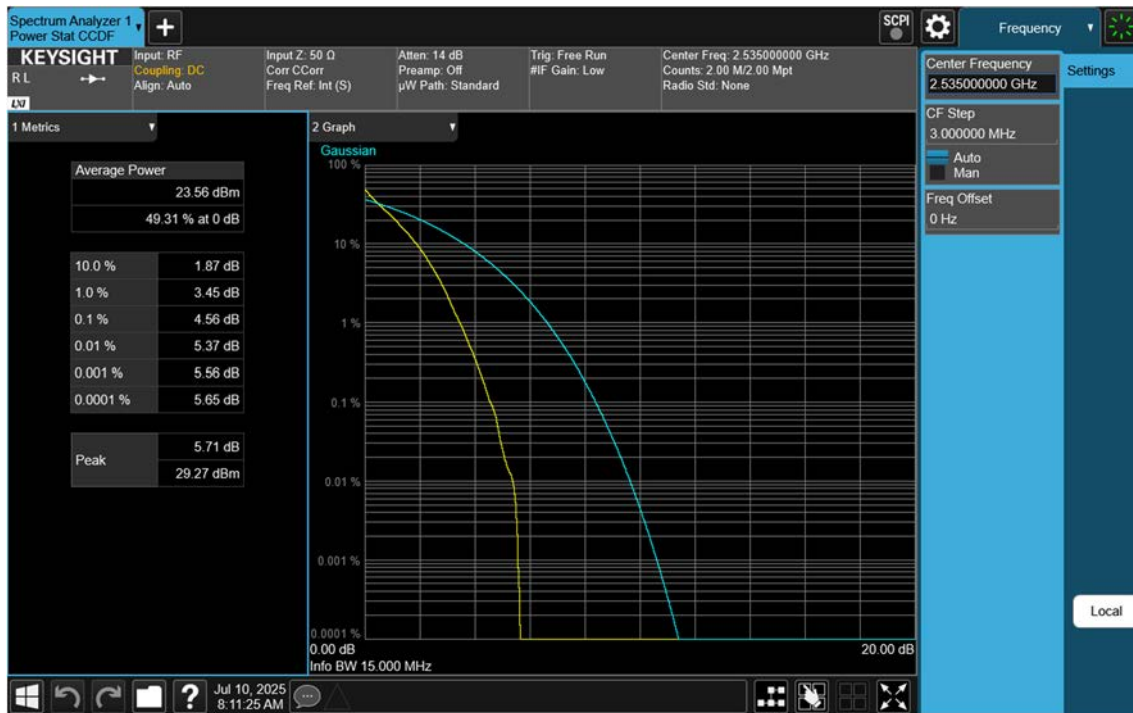
NR7\_10 M\_PAR\_Mid\_64QAM\_FullRB



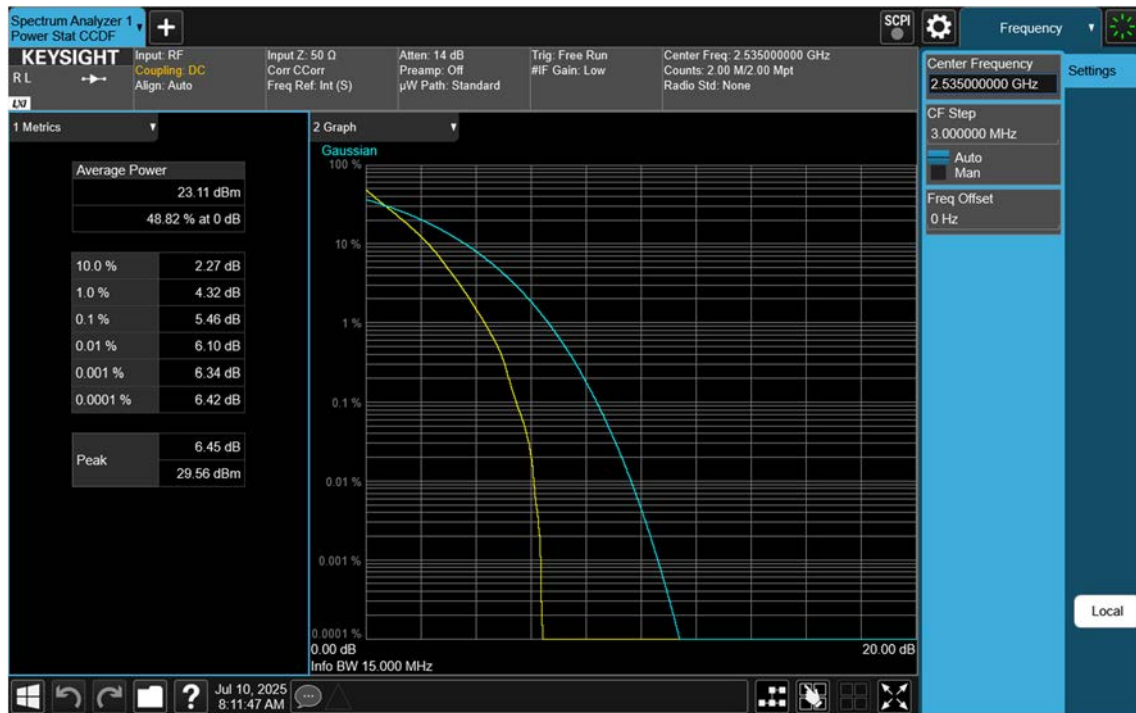
## NR7\_10 M\_PAR\_Mid\_256QAM\_FullRB



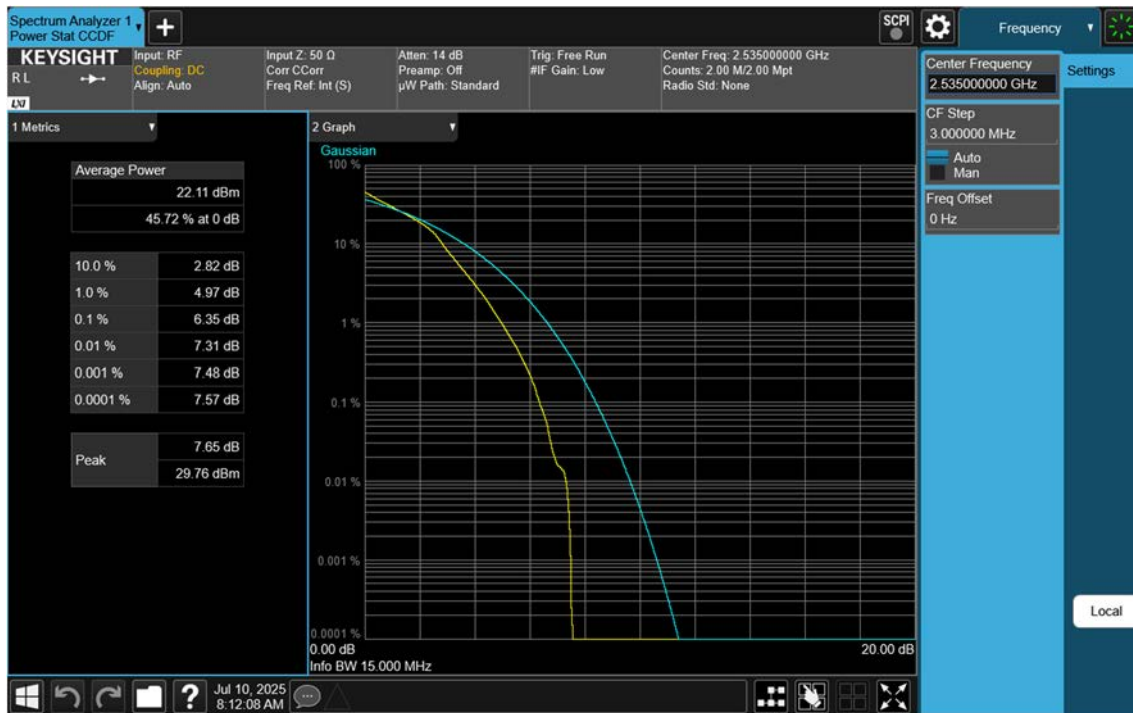
## NR7\_15 M\_PAR\_Mid\_BPSK\_FullIRB



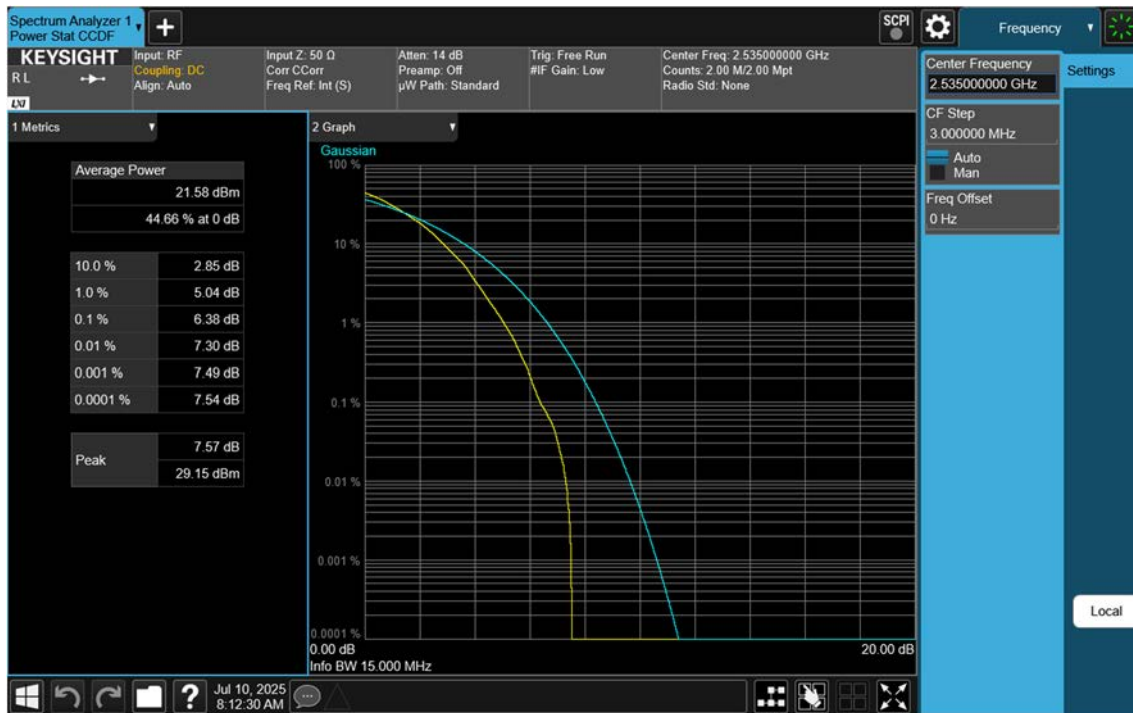
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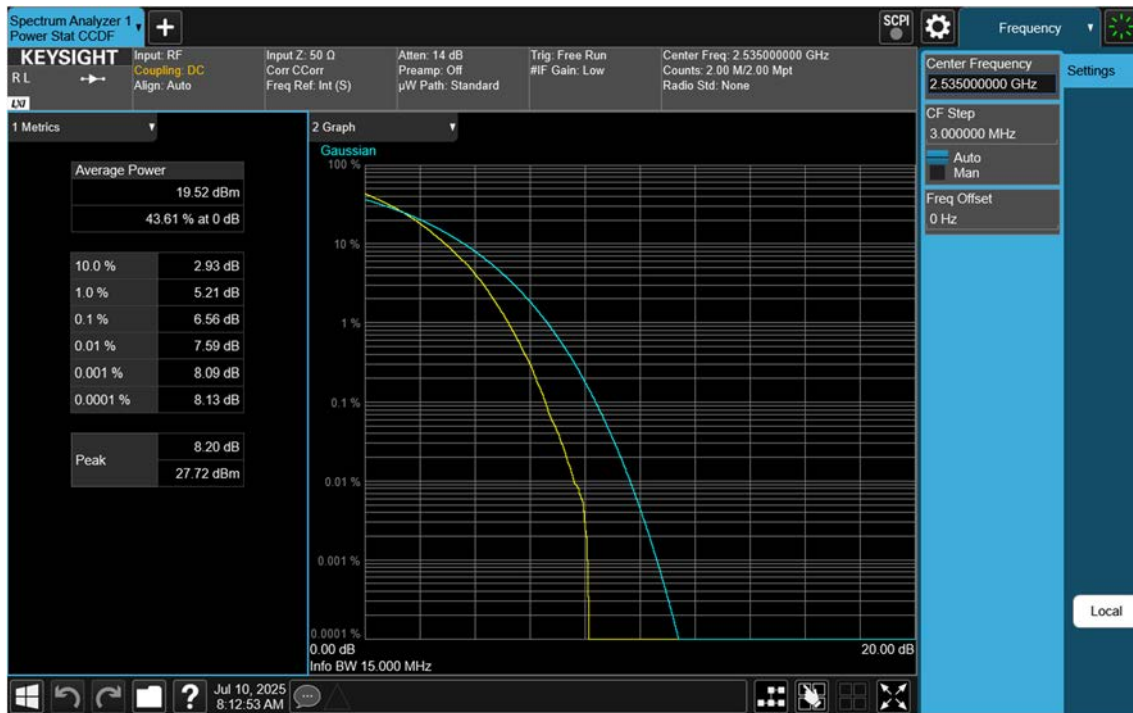
NR7\_15 M\_PAR\_Mid\_16QAM\_FullRB



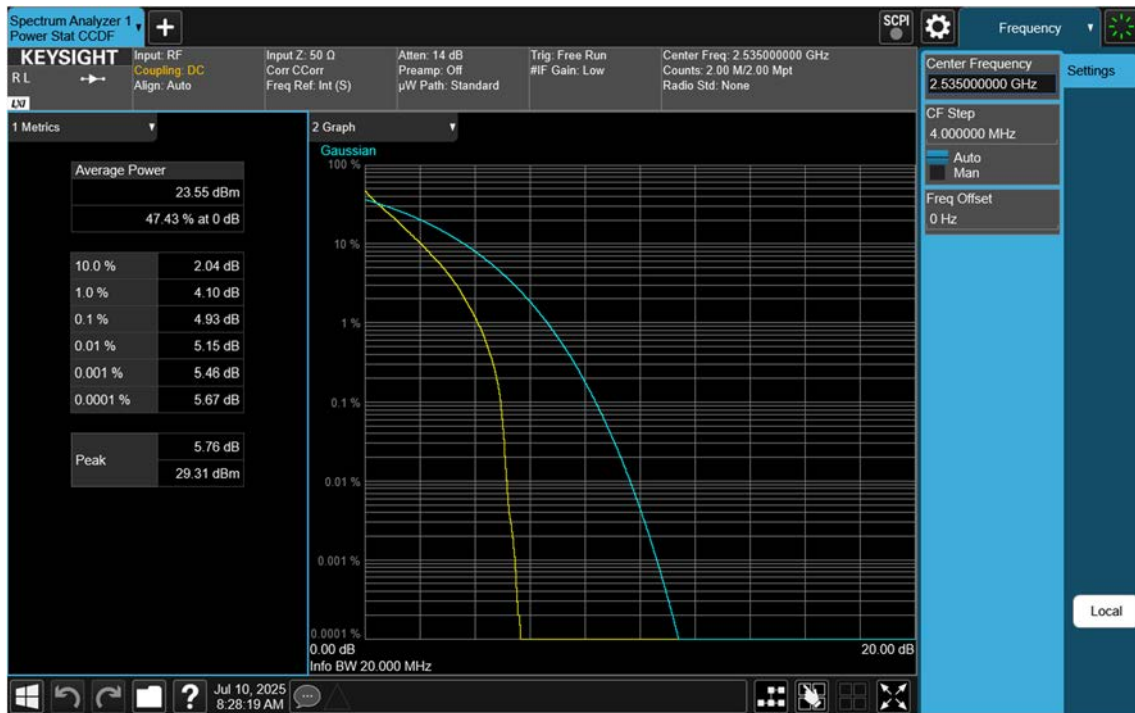
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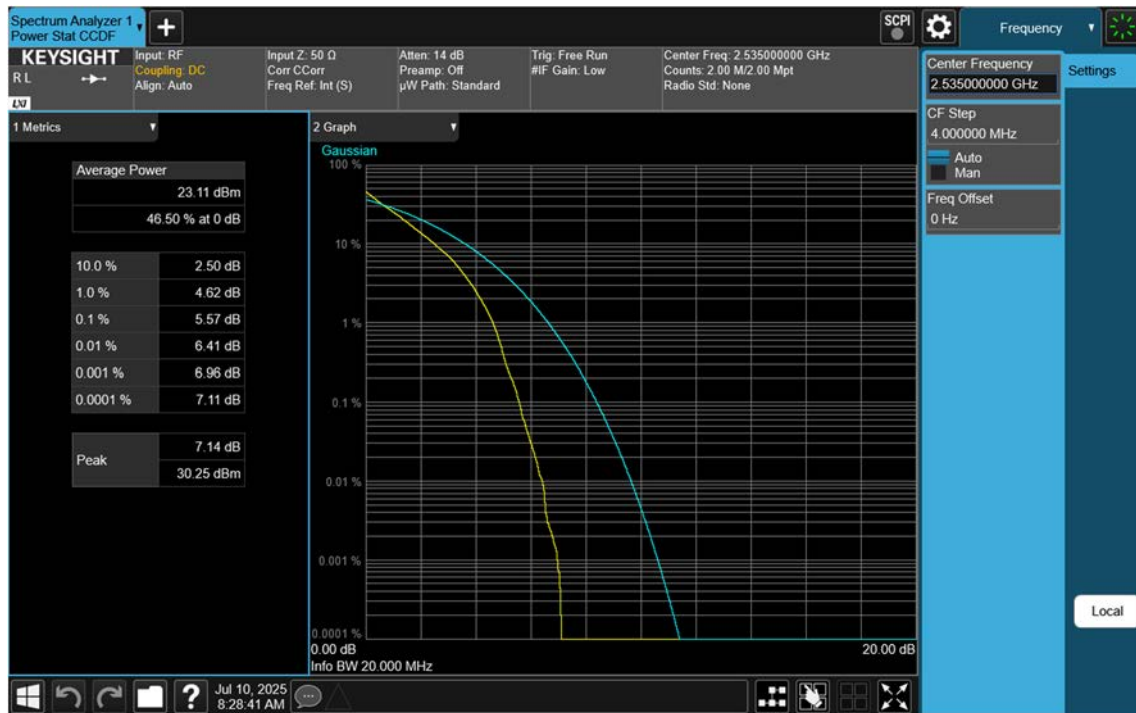
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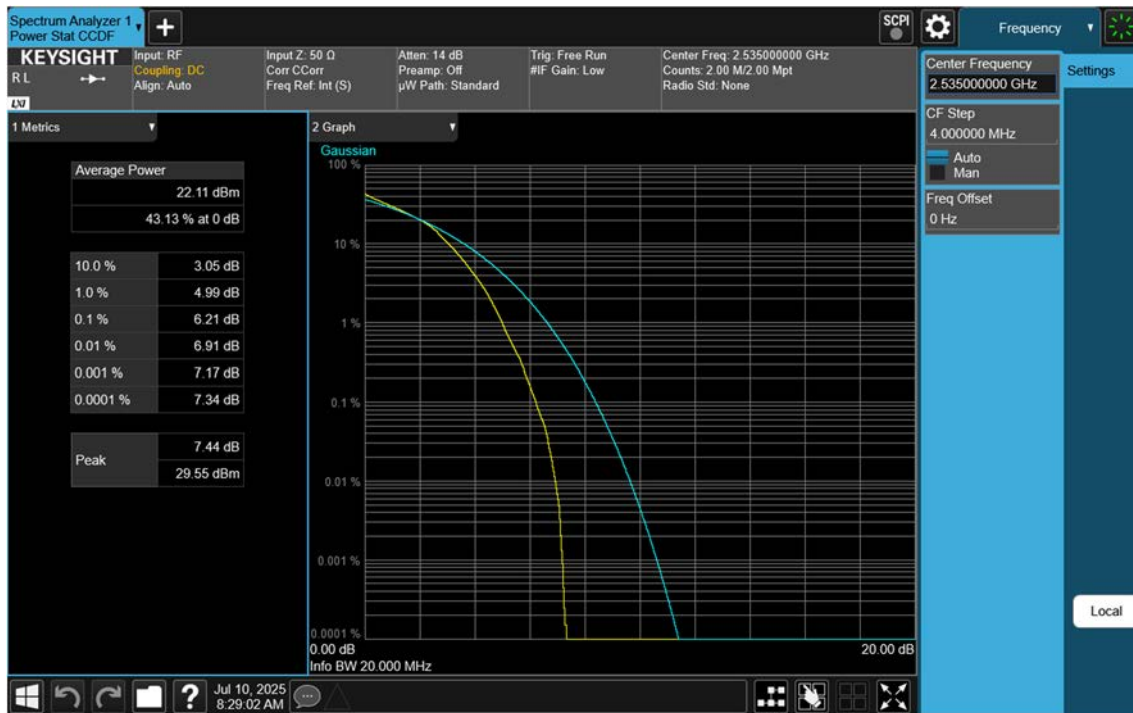
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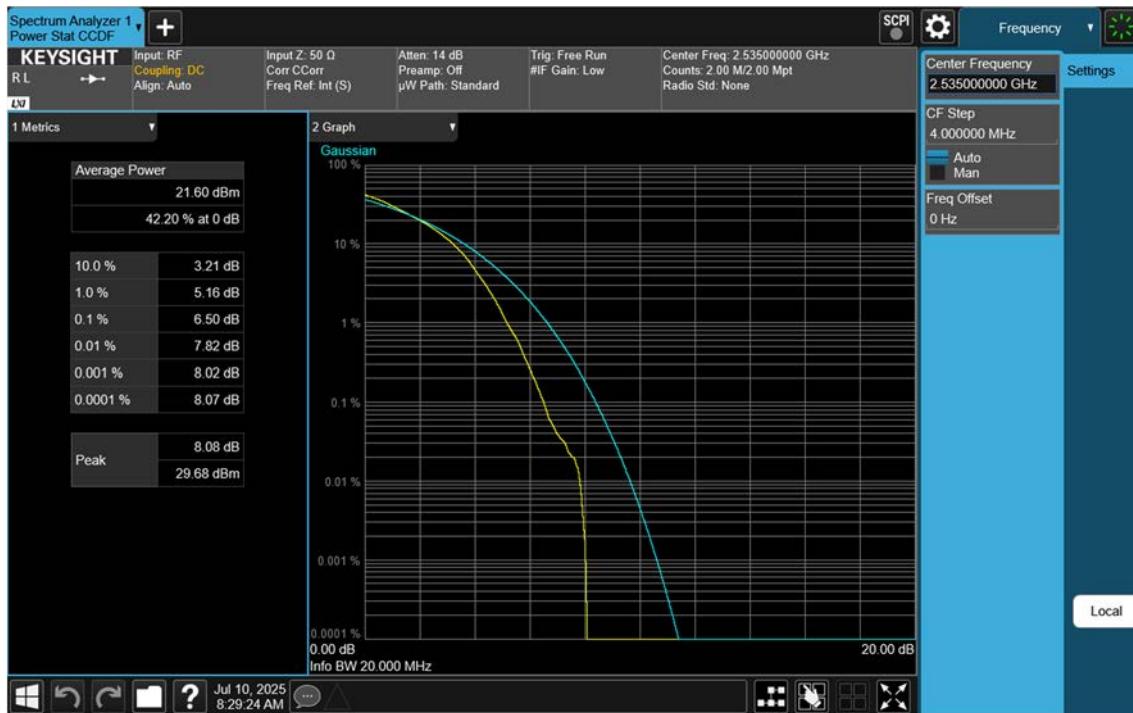
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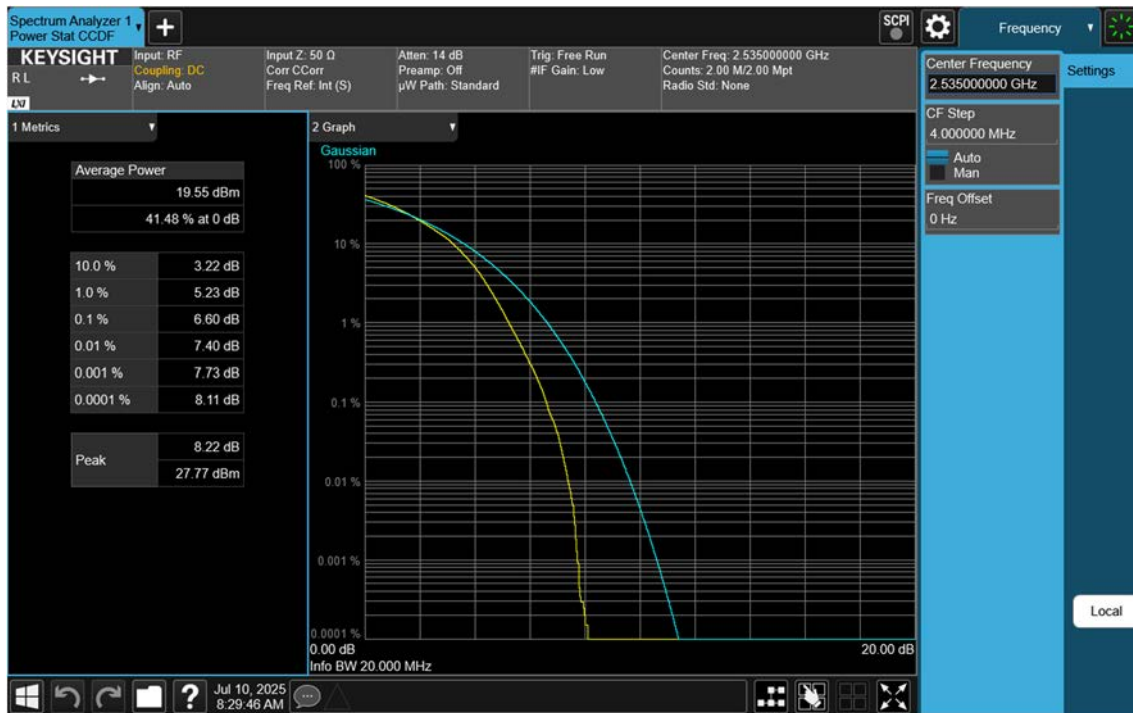
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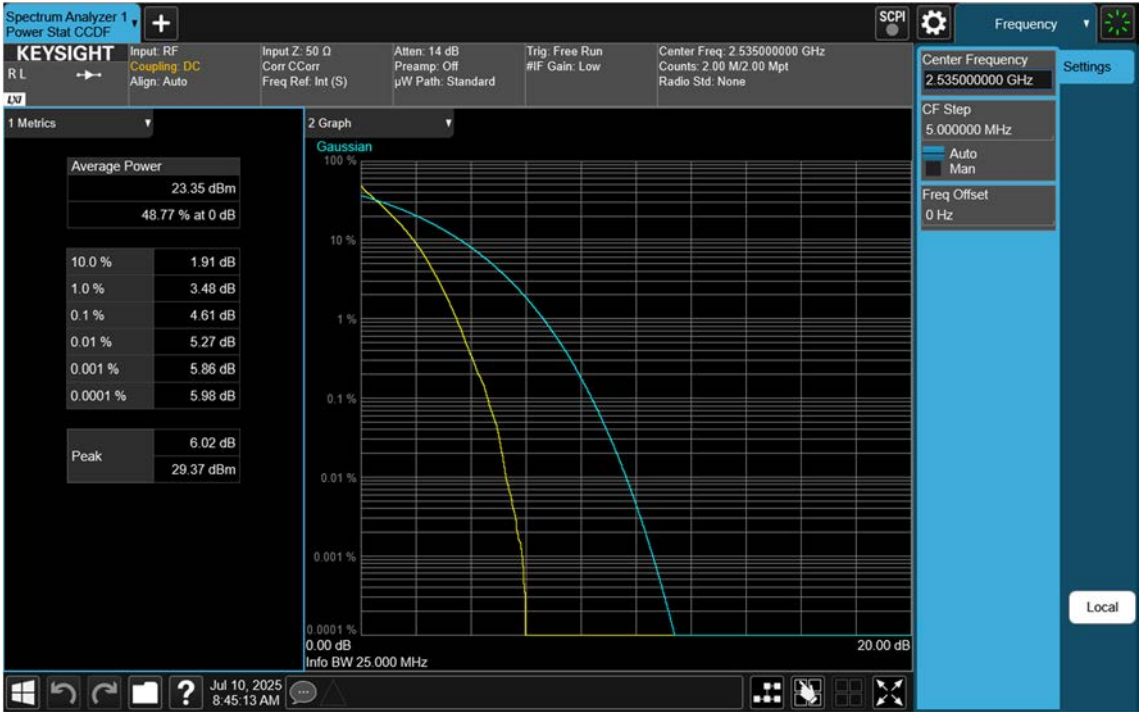
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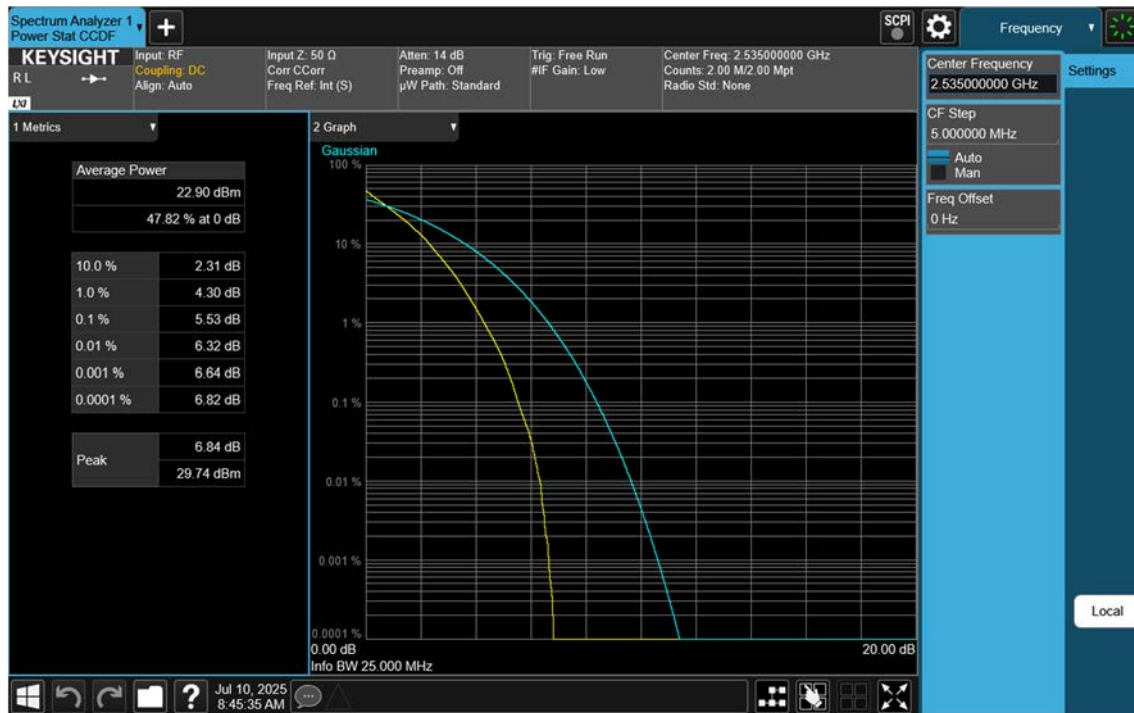
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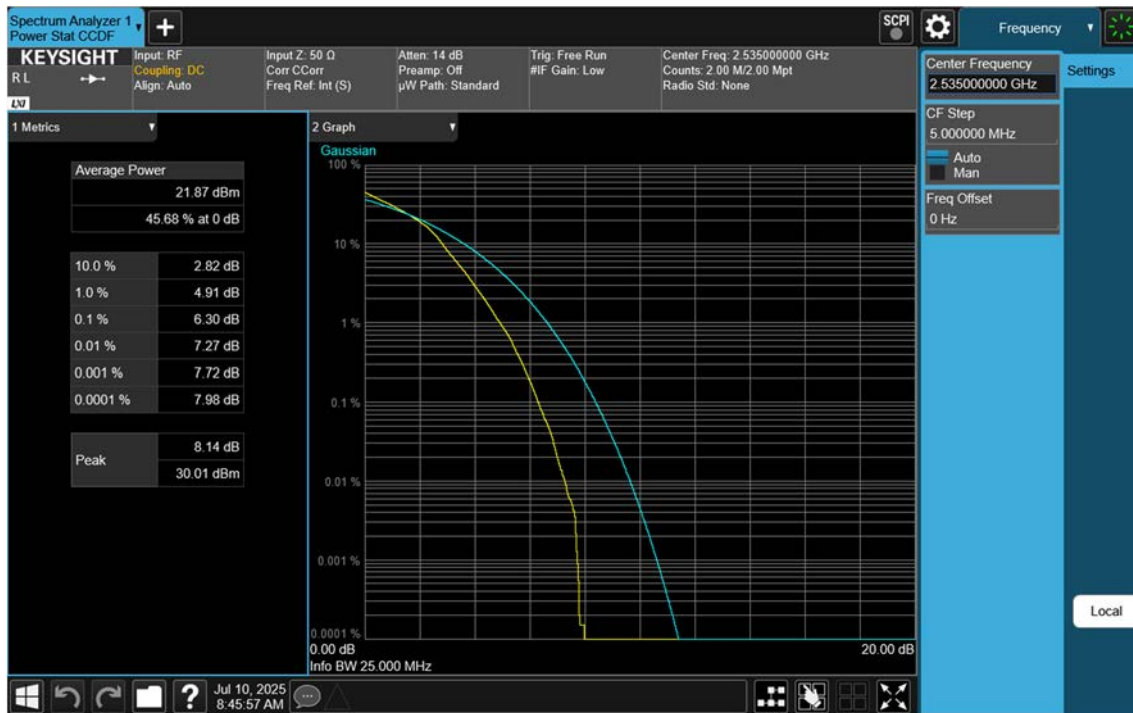
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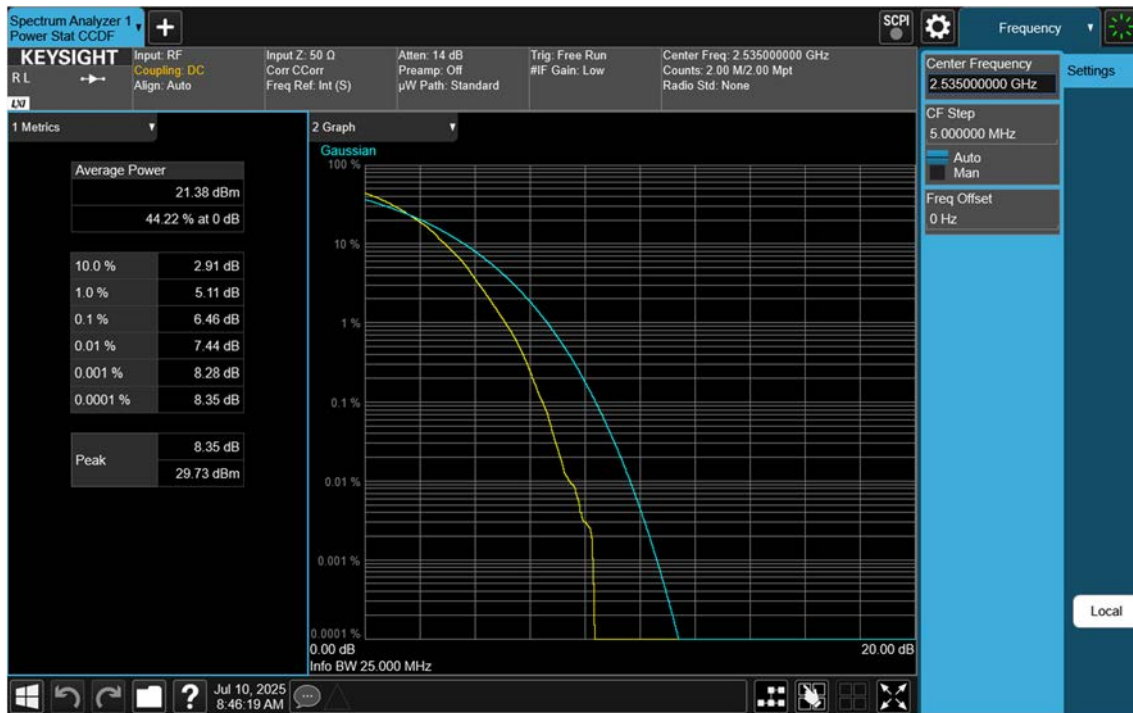
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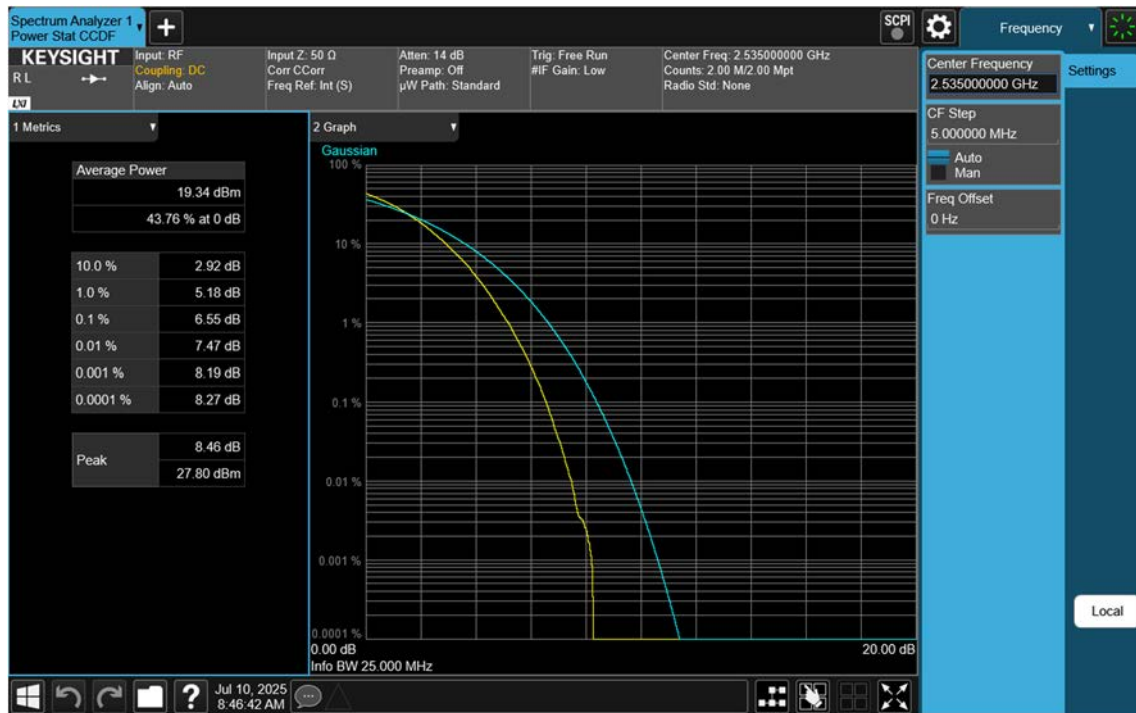
NR7\_25 M\_PAR\_Mid\_16QAM\_FullRB



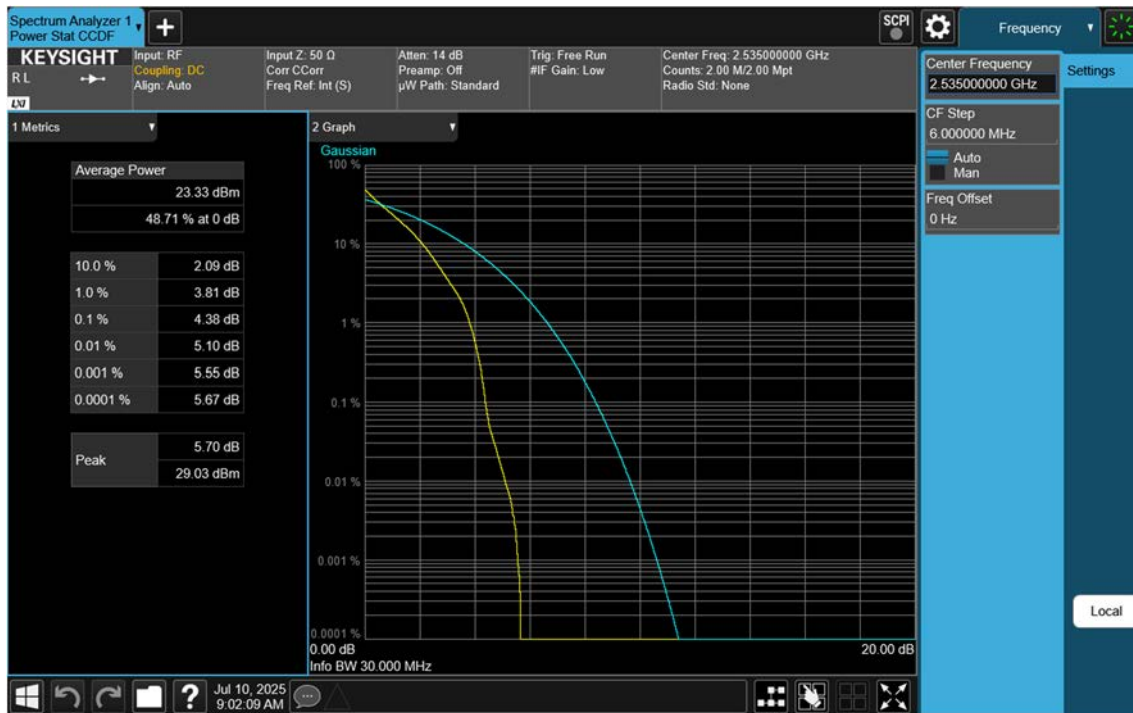
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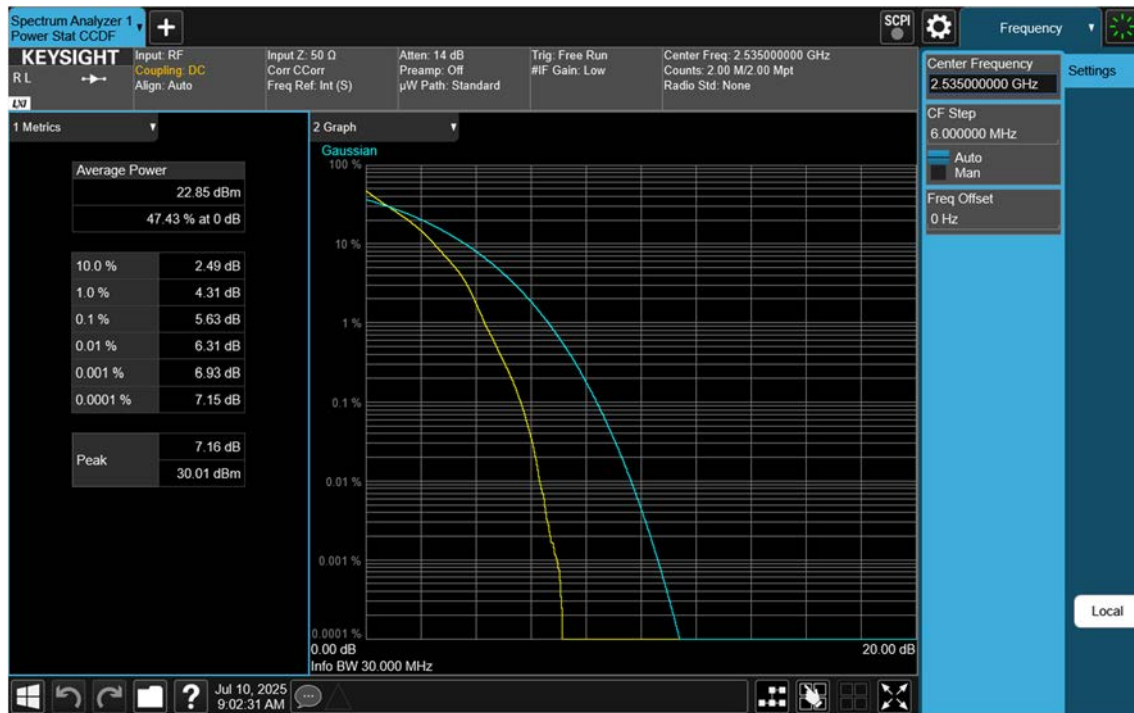
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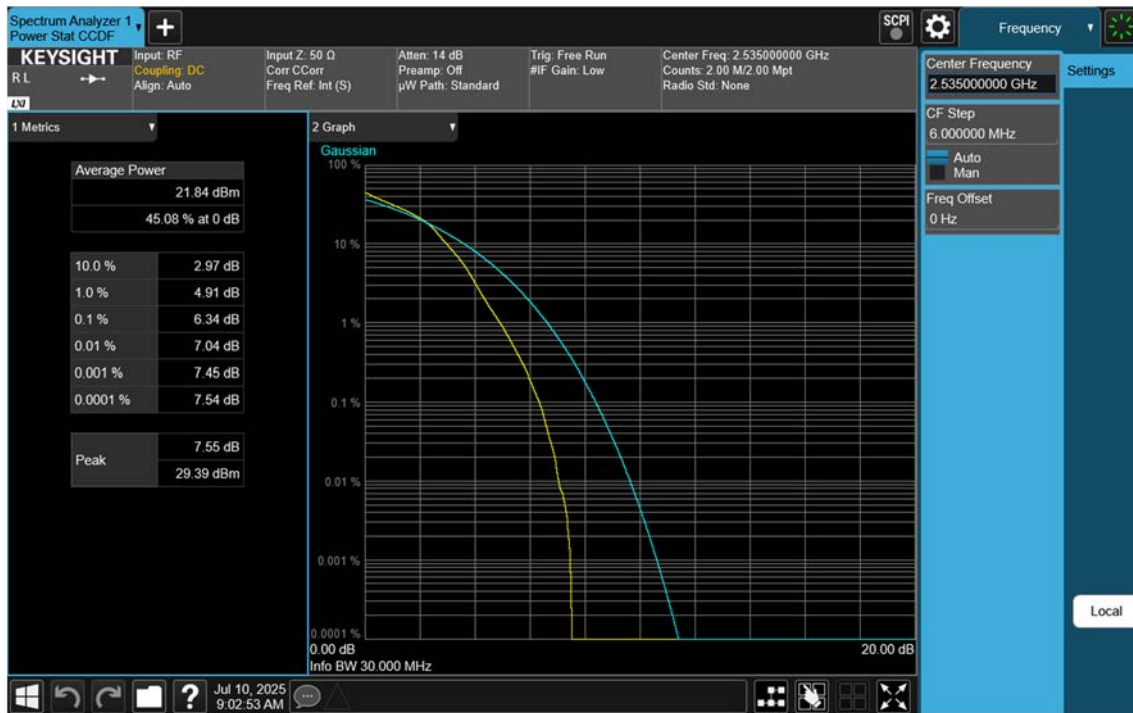
## NR7\_30 M\_PAR\_Mid\_BPSK\_FullIRB



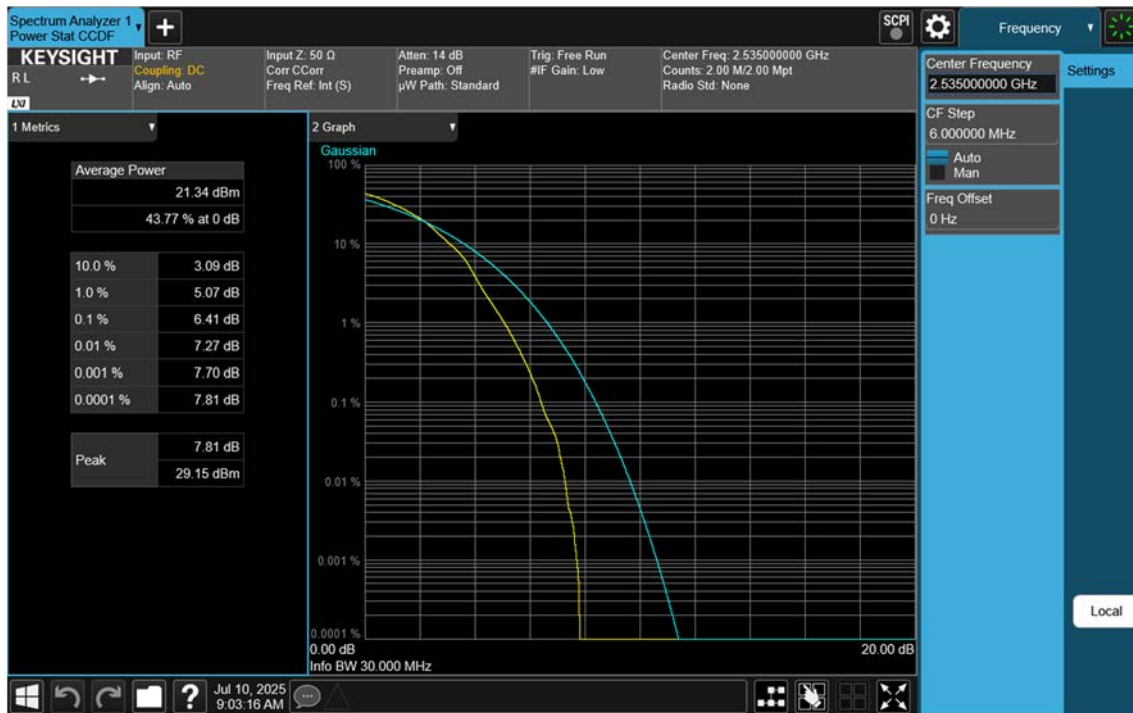
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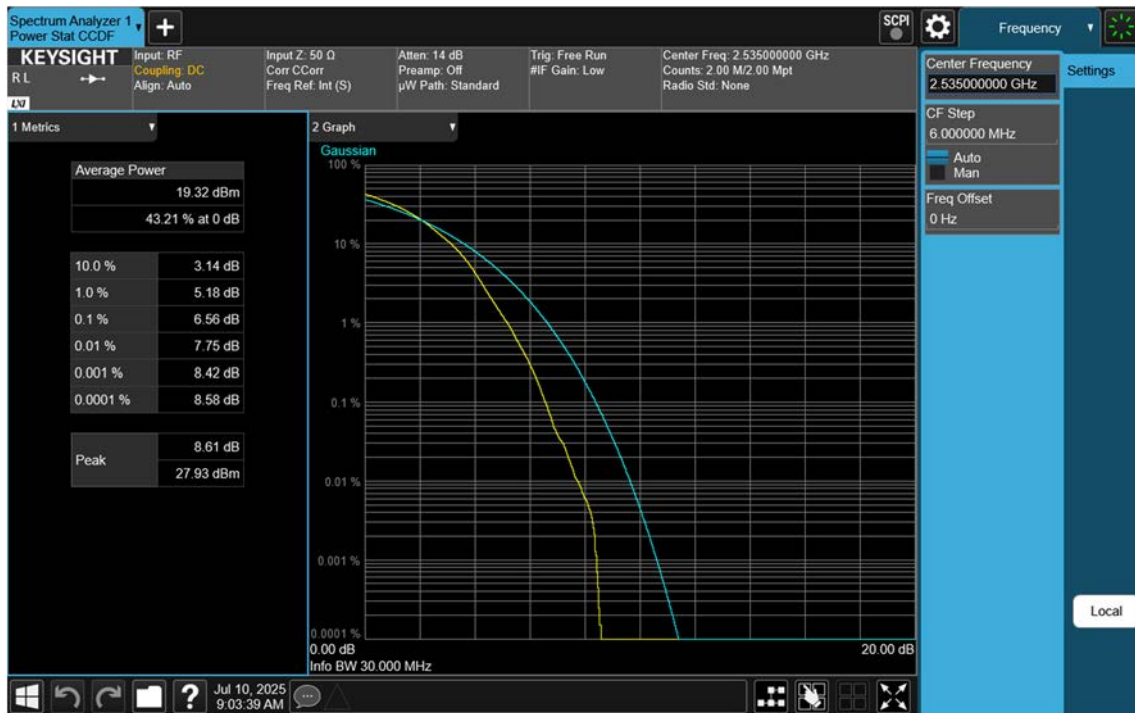
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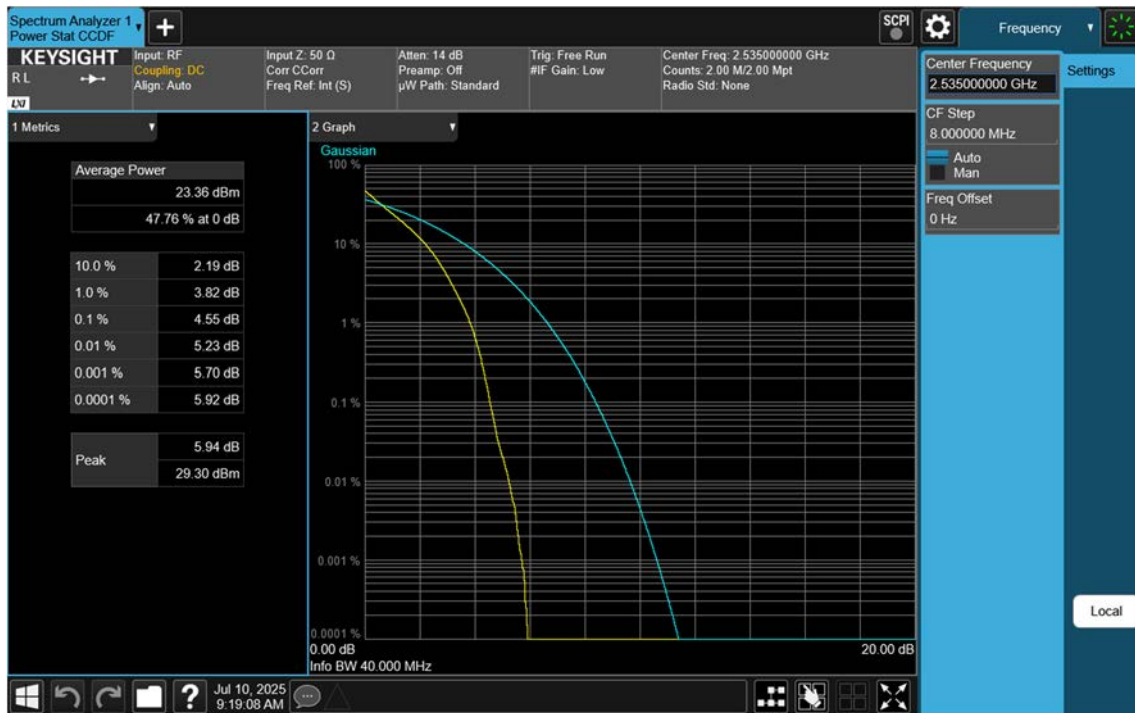
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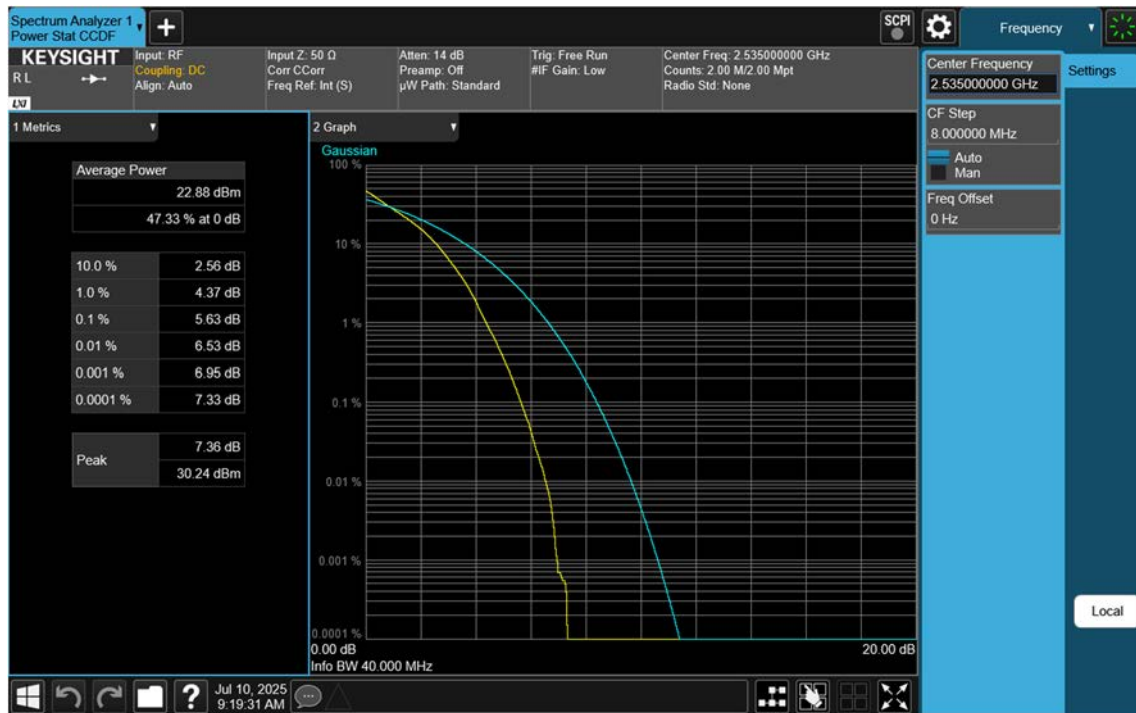
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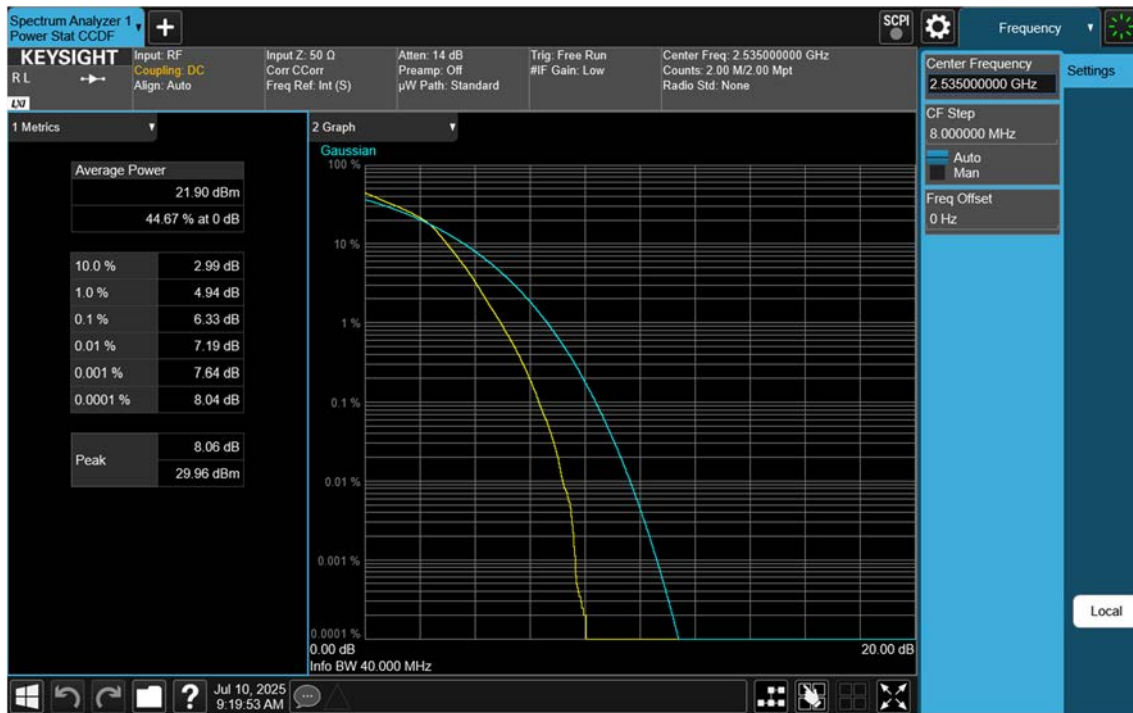
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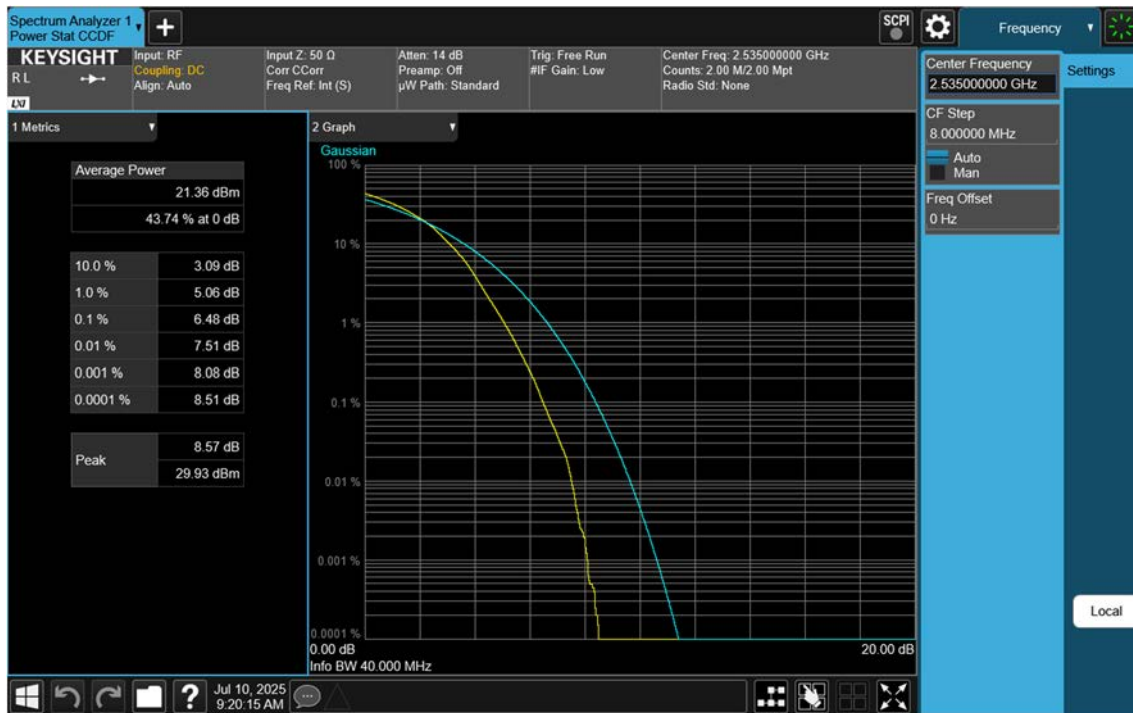
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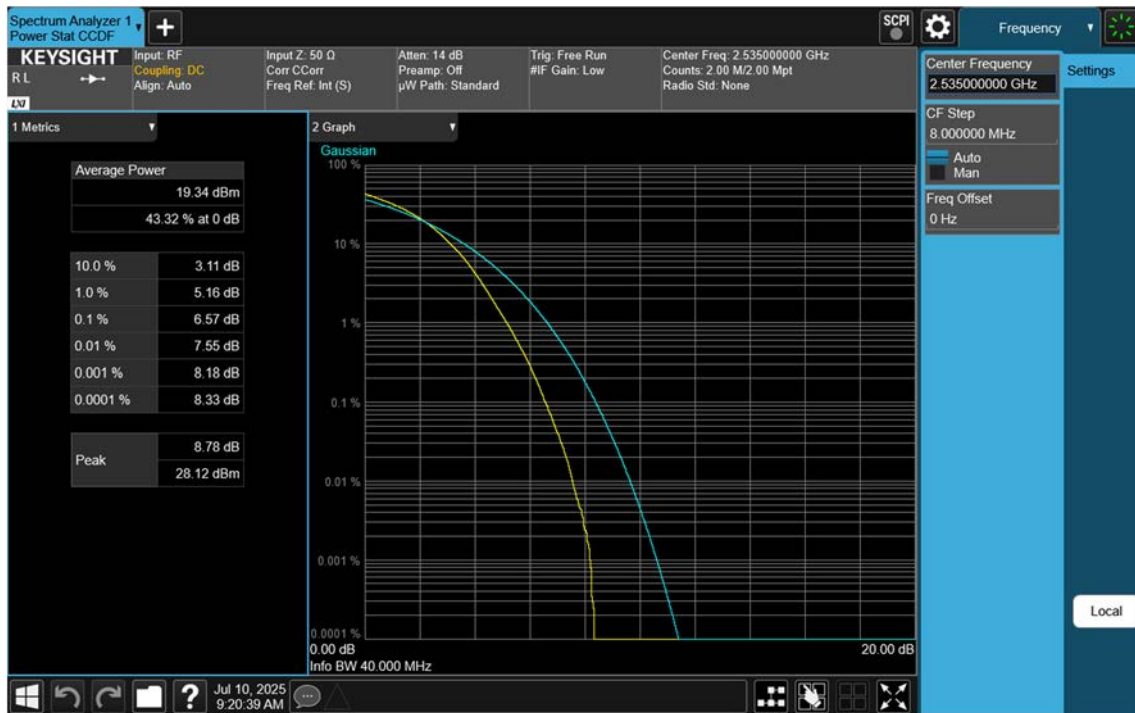
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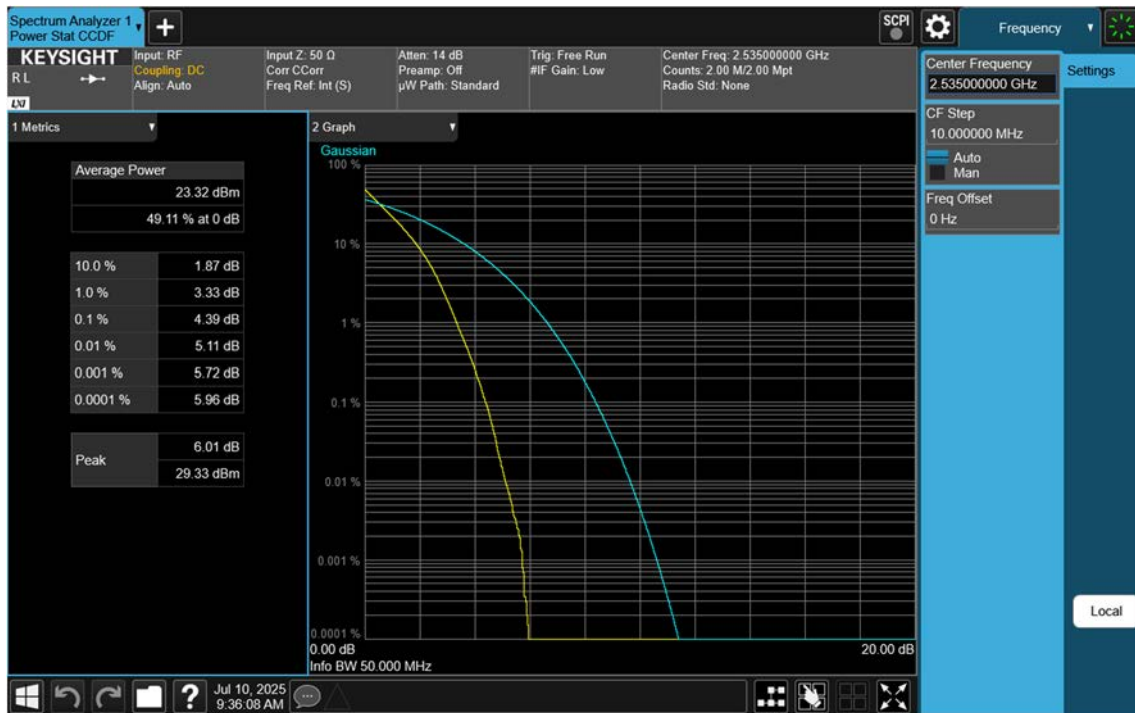
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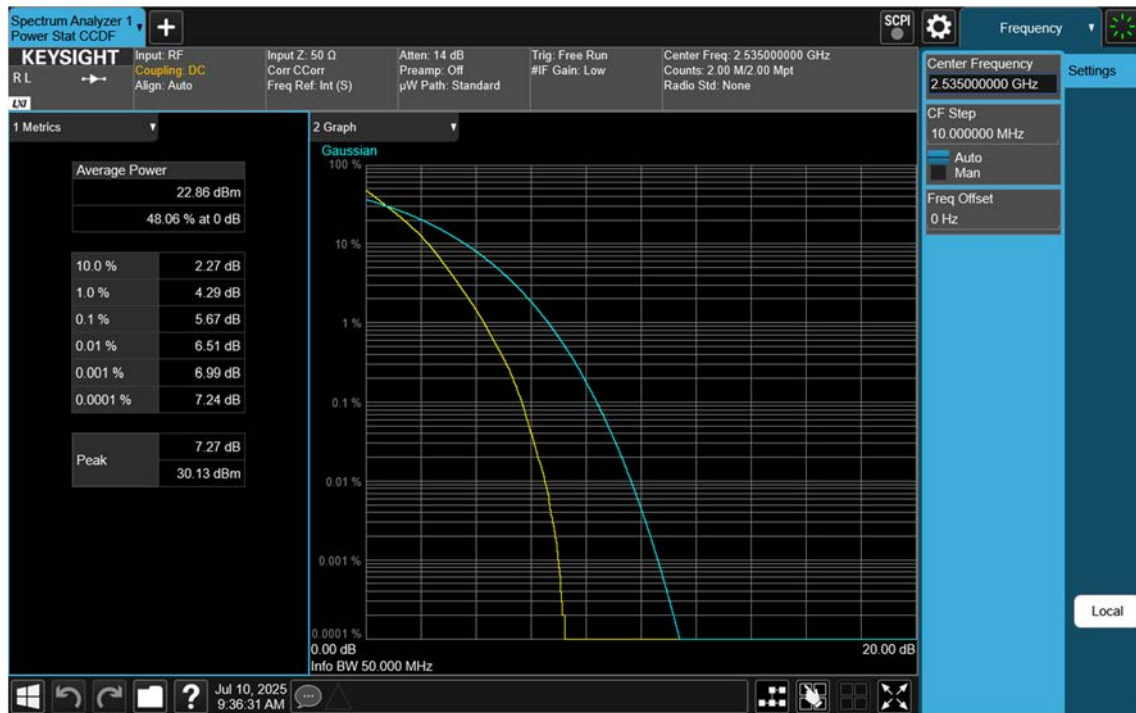
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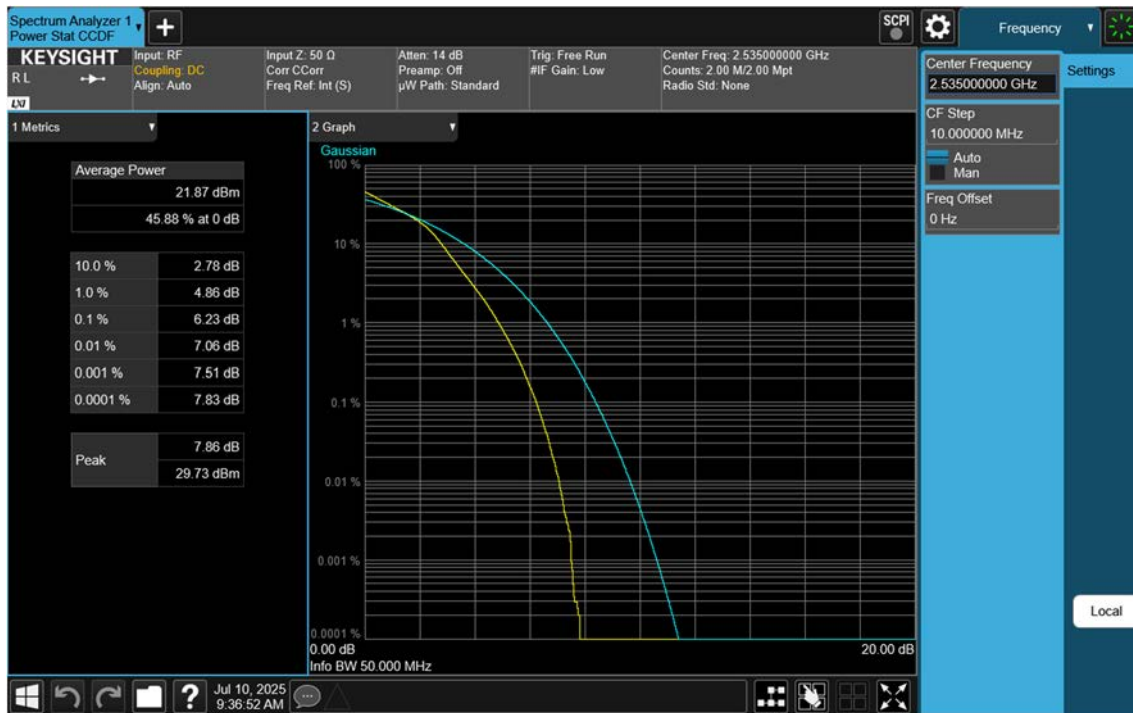
## NR7\_50 M\_PAR\_Mid\_BPSK\_FullIRB



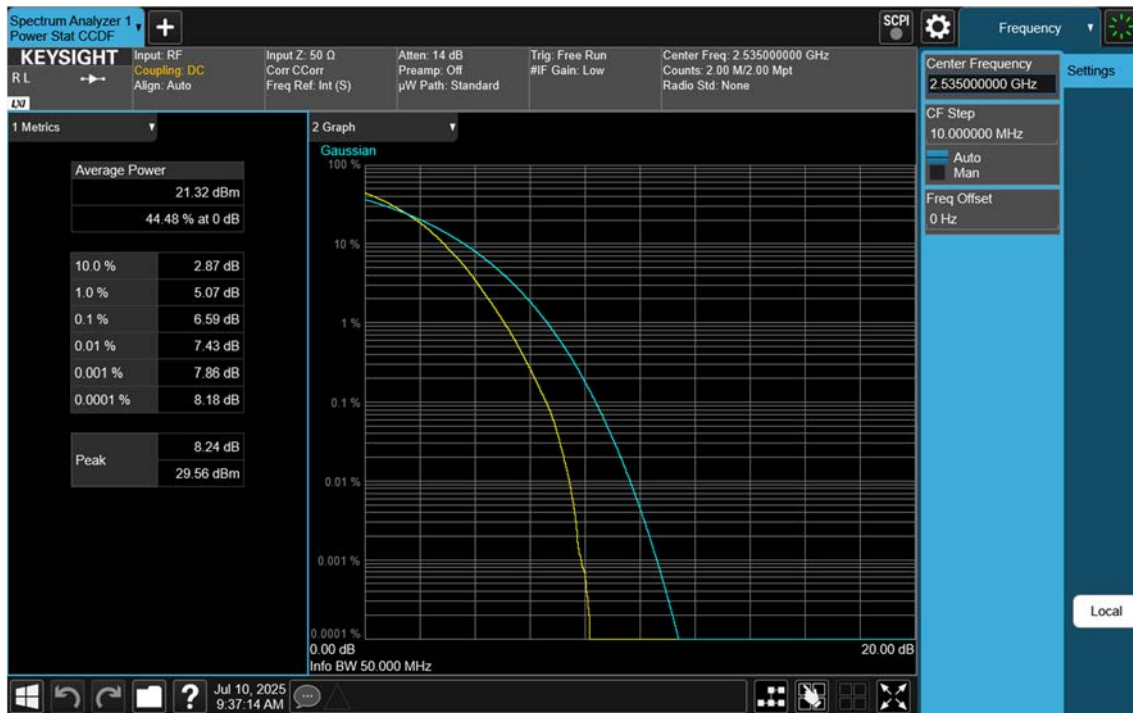
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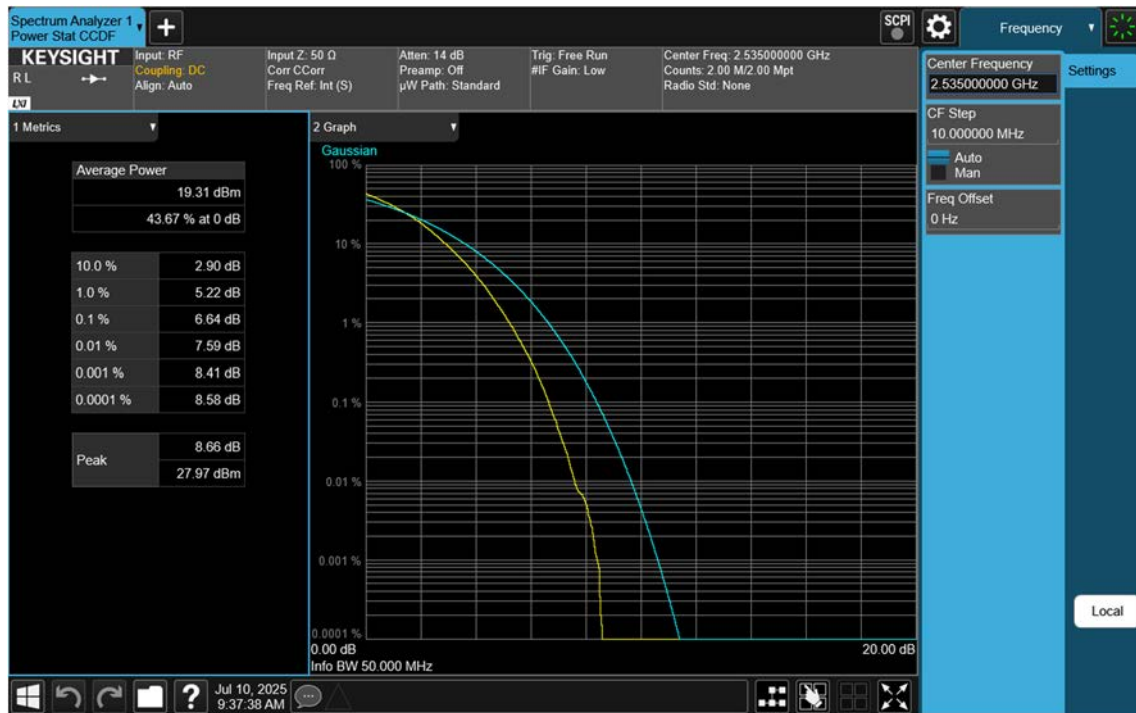
NR7\_50 M\_PAR\_Mid\_16QAM\_FullRB



NR7\_50 M\_PAR\_Mid\_64QAM\_FullRB



NR7\_50 M\_PAR\_Mid\_256QAM\_FullRB



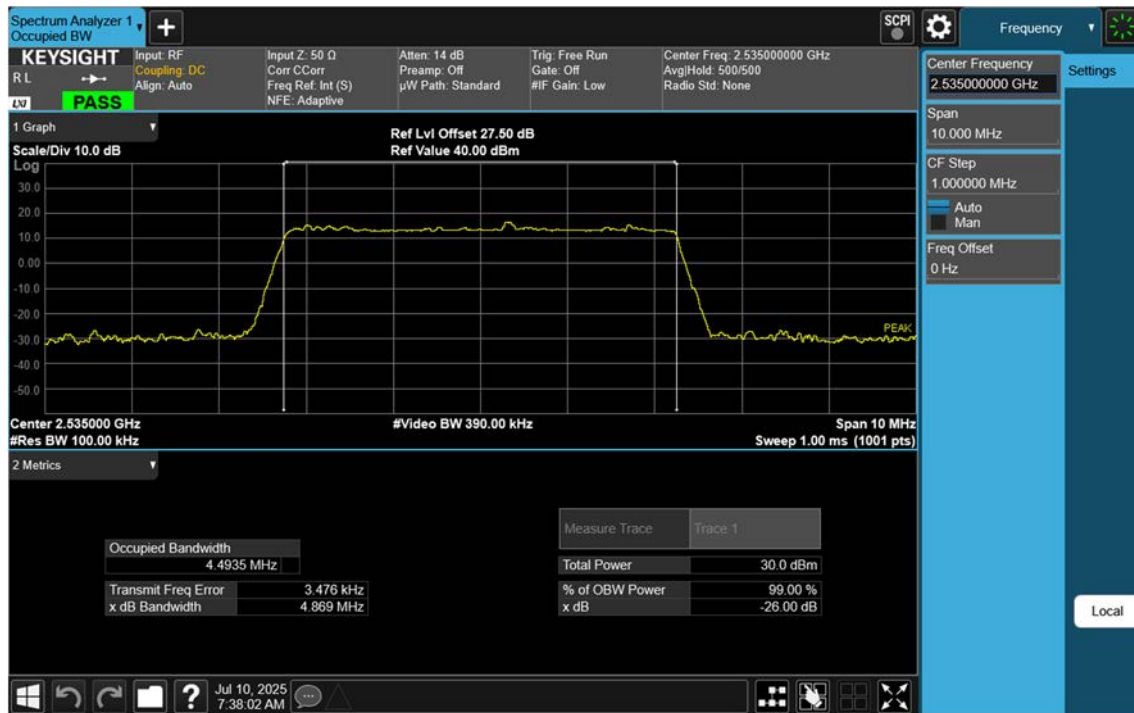
## NR7\_5 M\_OBW\_Mid\_BPSK\_FullRB



## NR7\_5 M\_OBW\_Mid\_QPSK\_FullRB



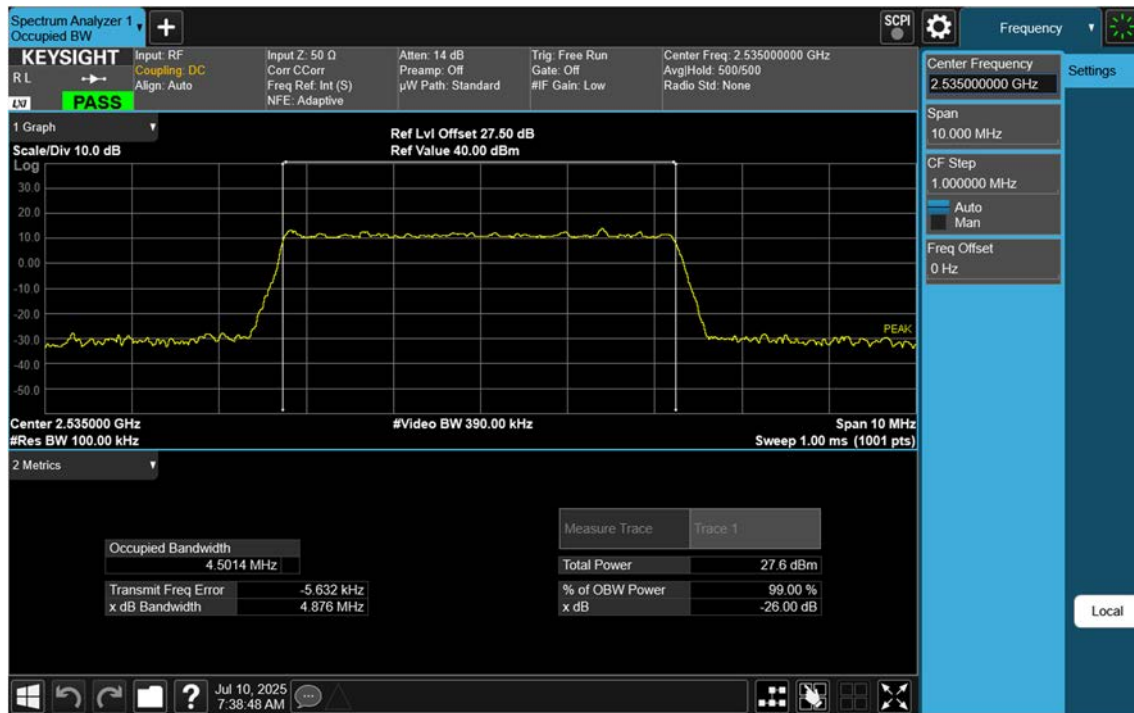
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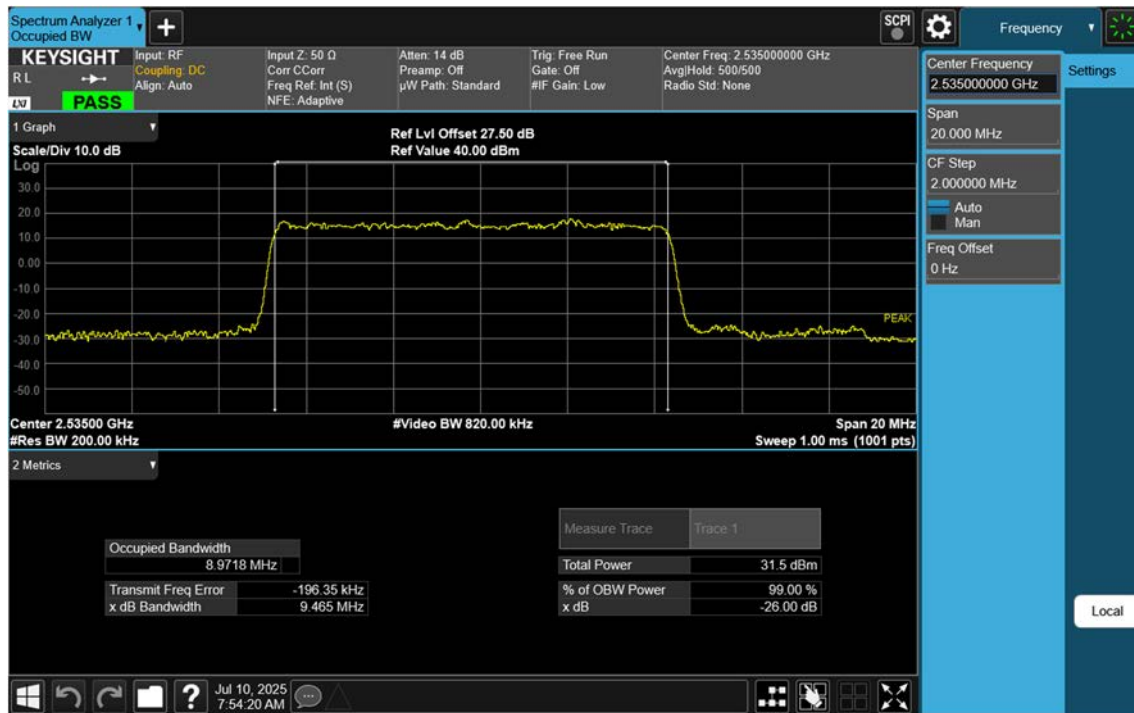
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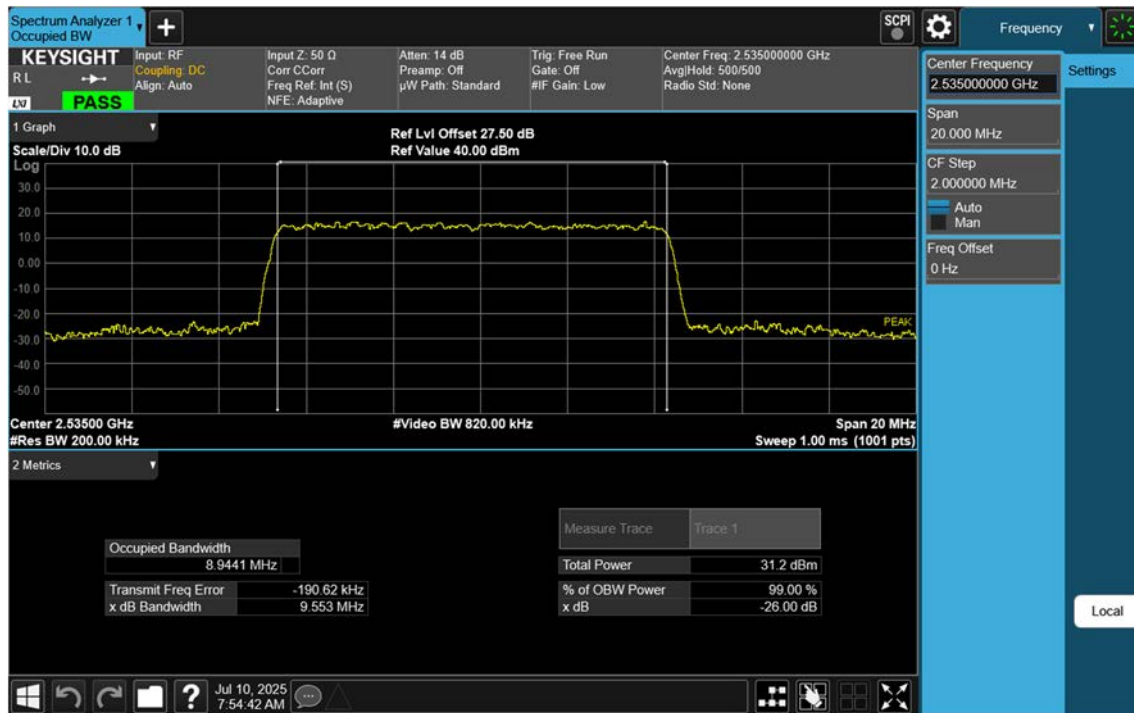
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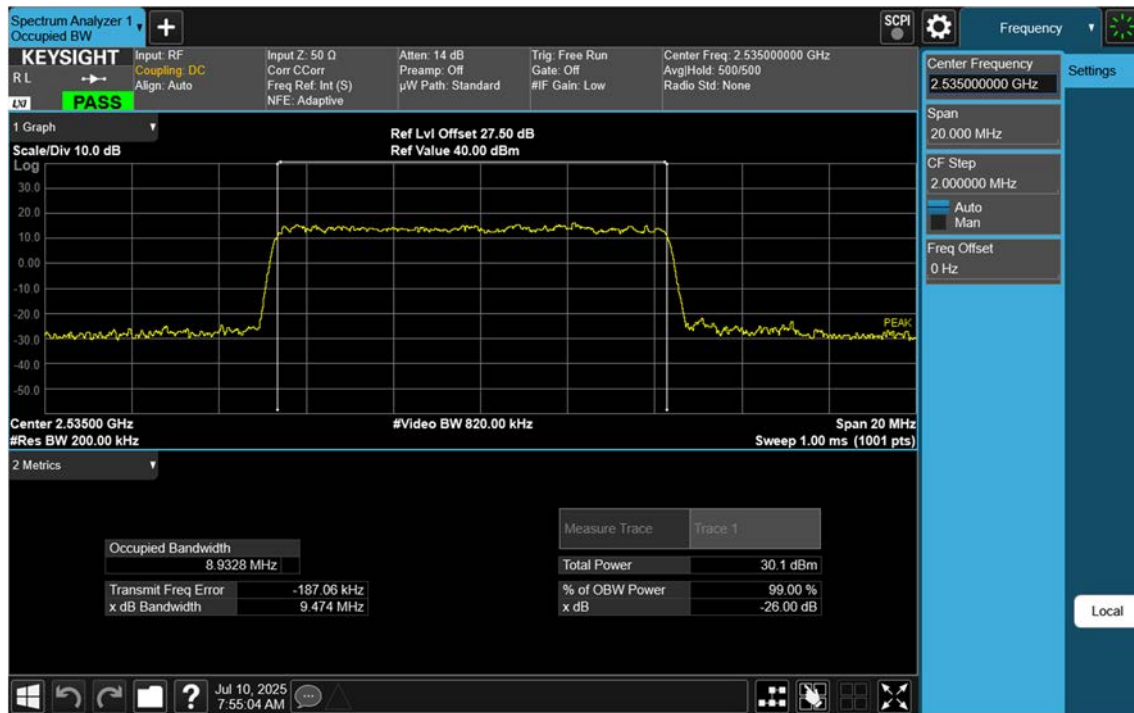
## NR7\_10 M\_OBW\_Mid\_BPSK\_FullRB



## NR7\_10 M\_OBW\_Mid\_QPSK\_FullRB



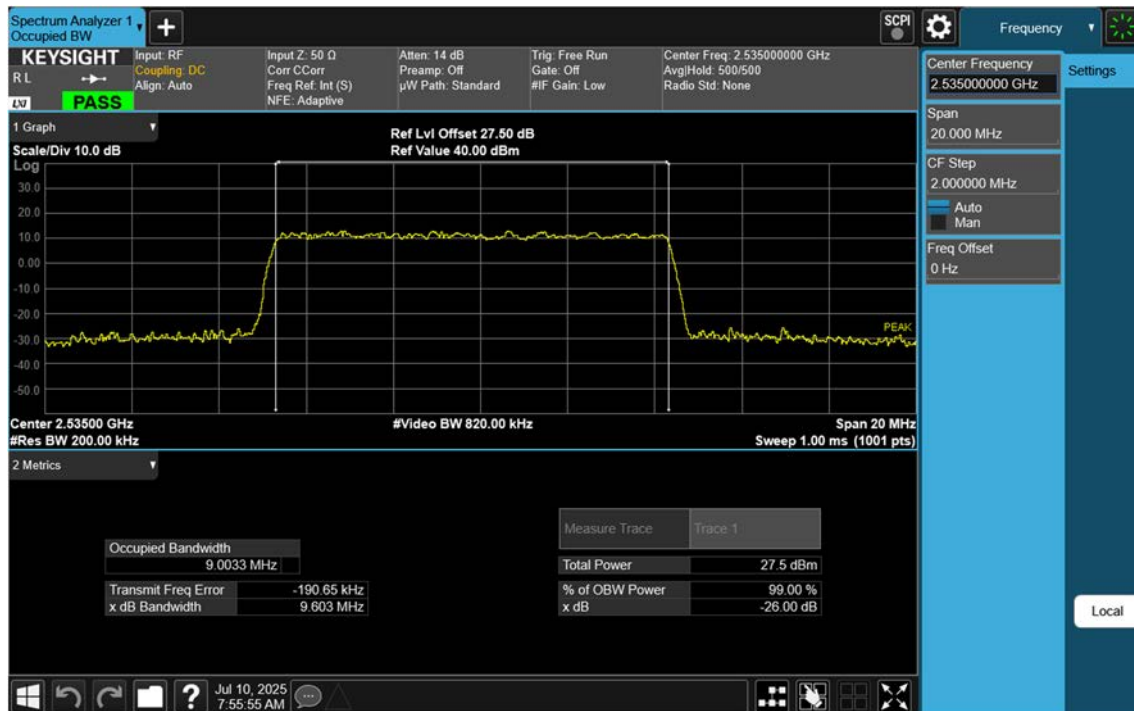
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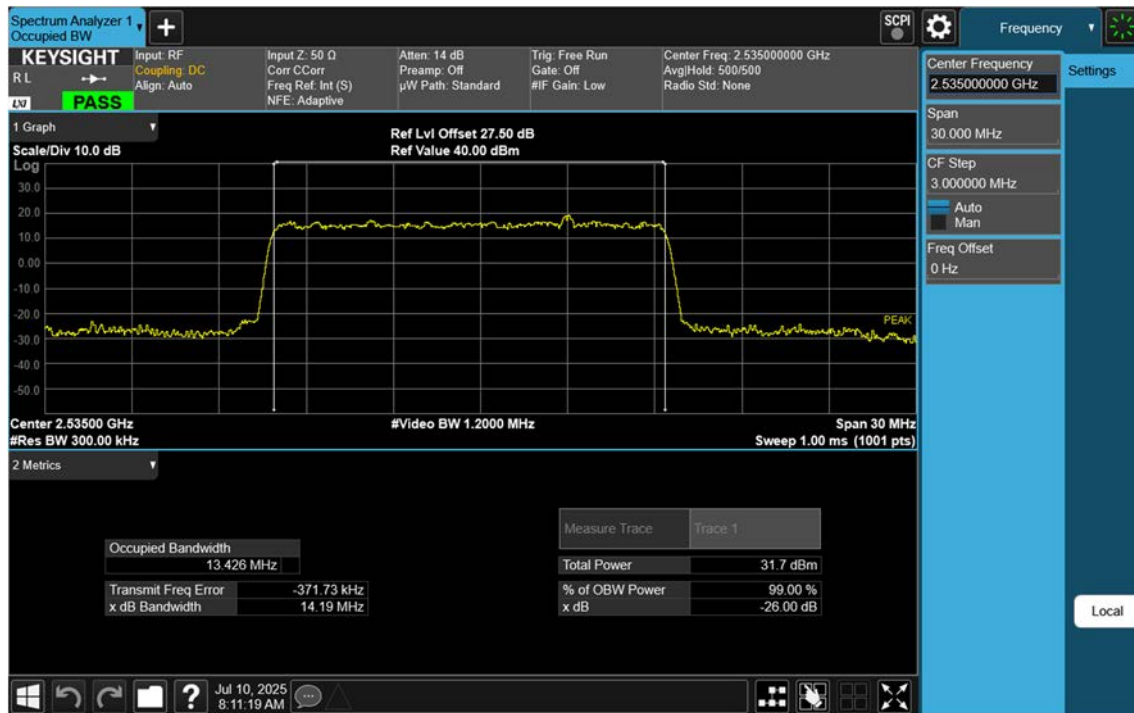
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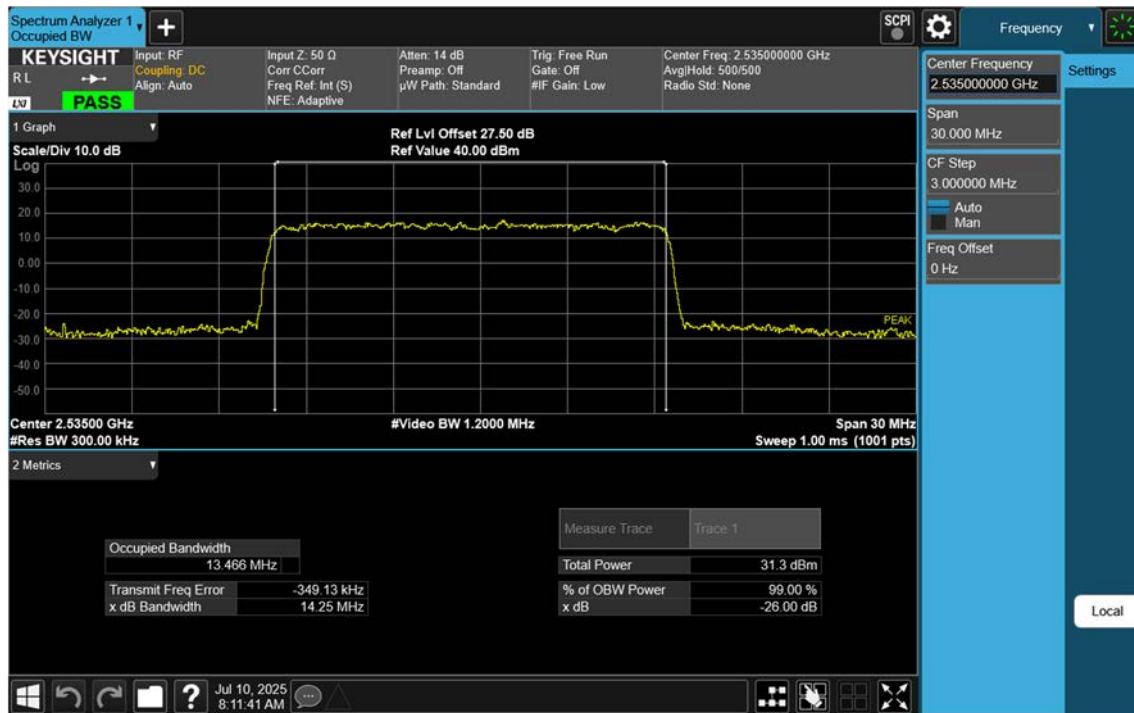
NR7\_10 M\_OBW\_Mid\_256QAM\_FullRB



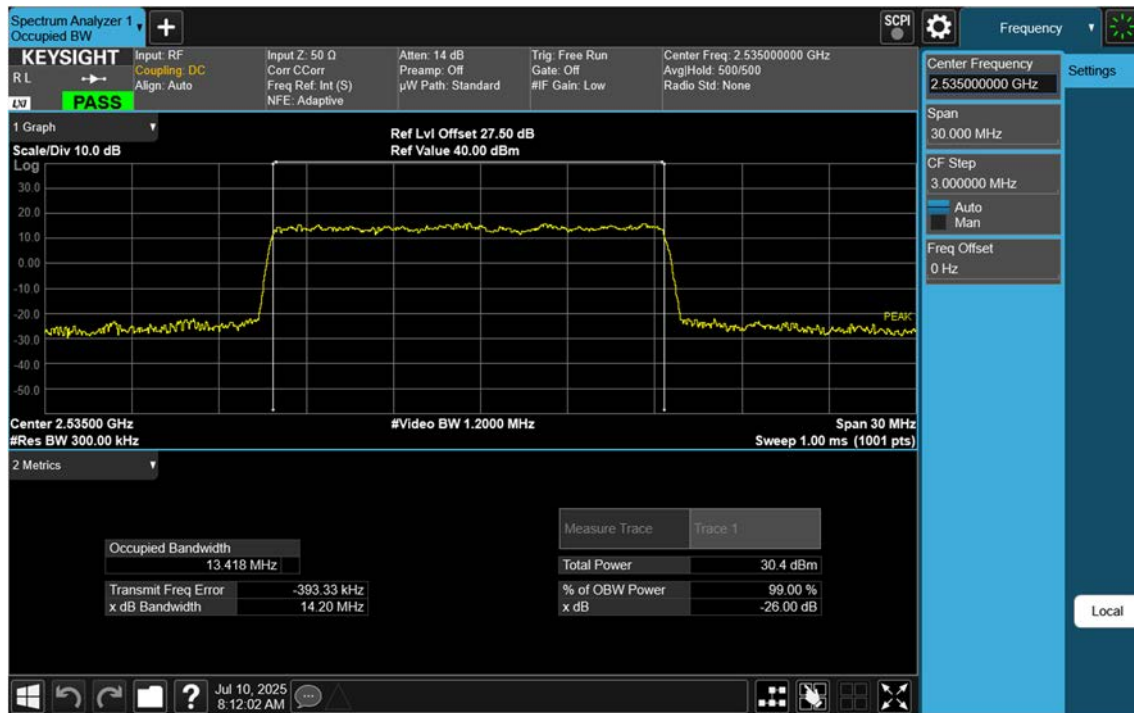
## NR7\_15 M\_OBW\_Mid\_BPSK\_FullRB



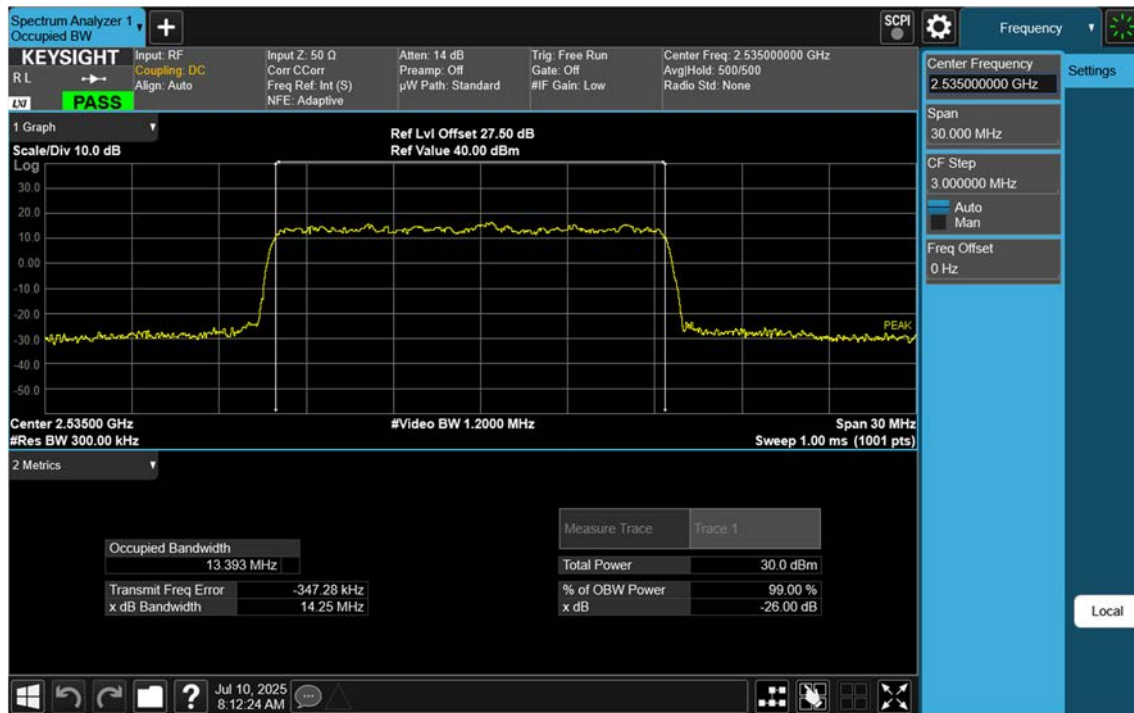
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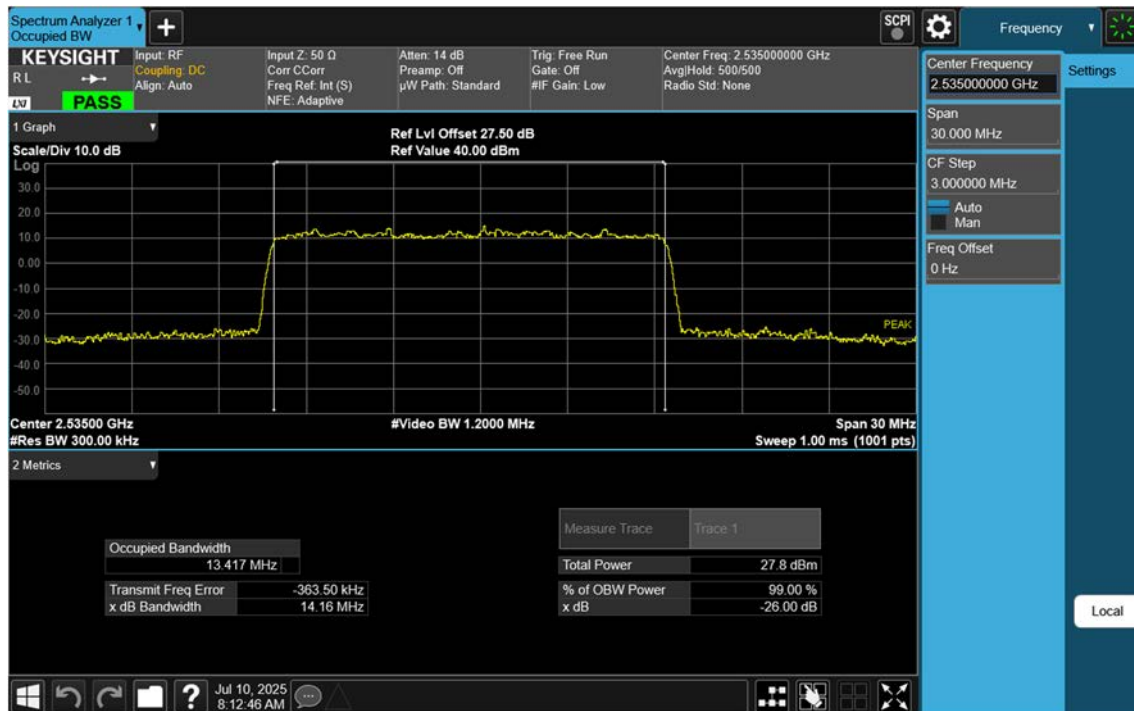
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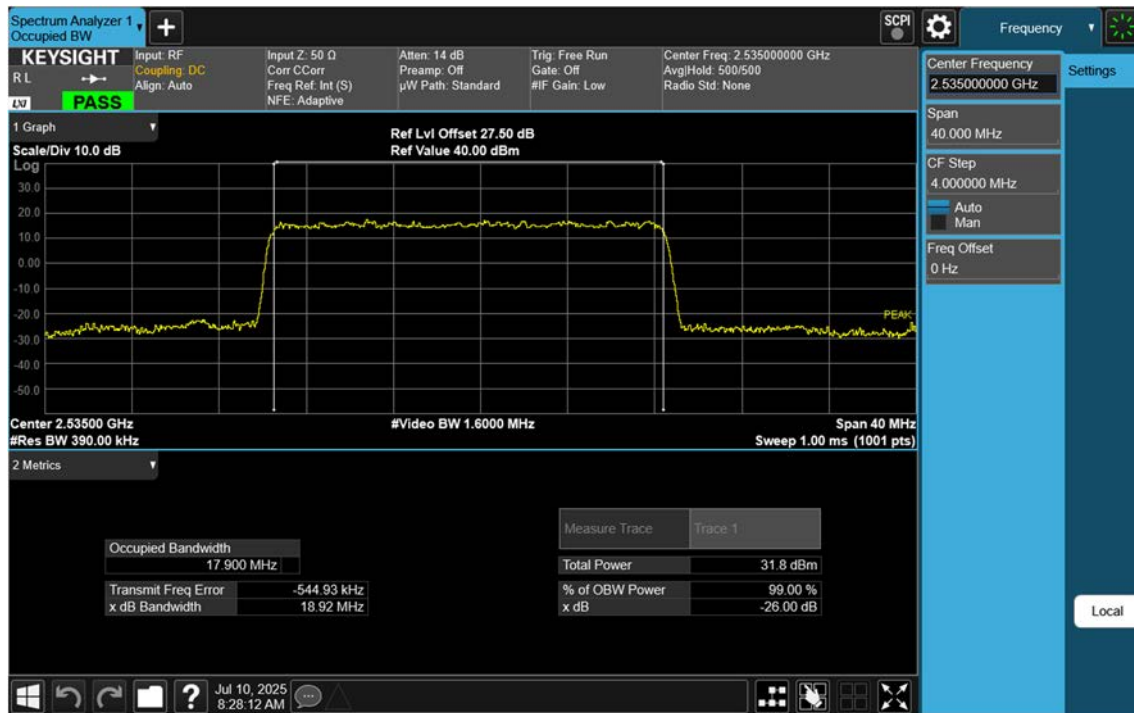
NR7\_15 M\_OBW\_Mid\_64QAM\_FullRB



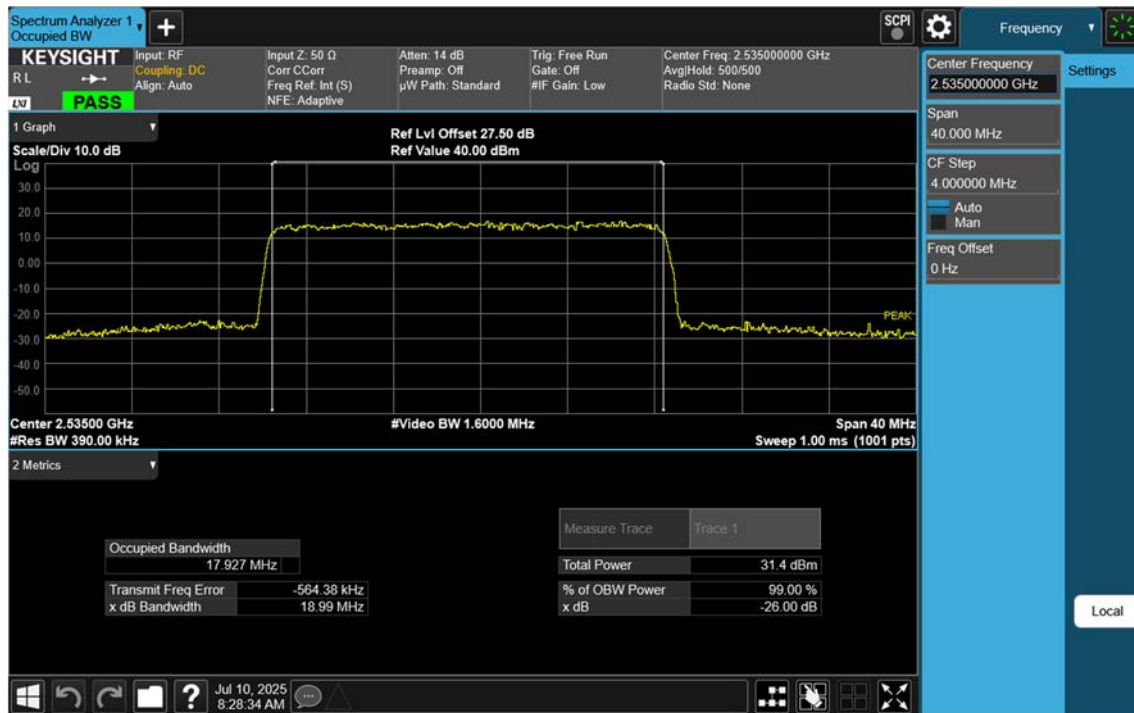
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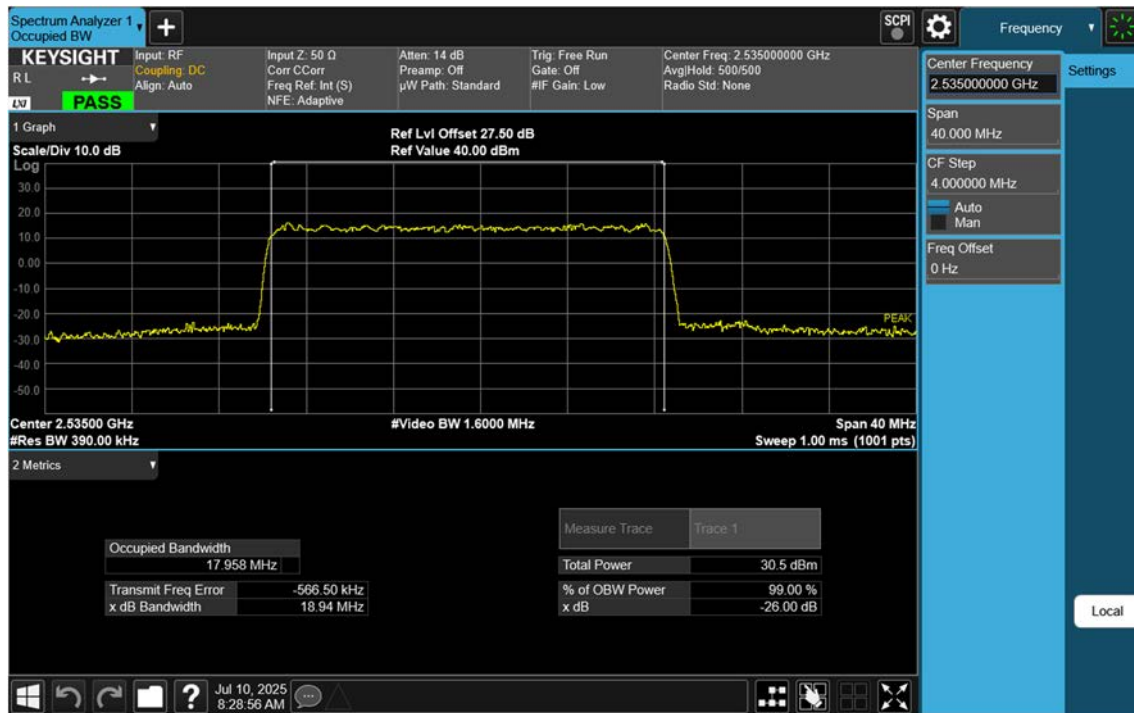
## NR7\_20 M\_OBW\_Mid\_BPSK\_FullRB



## NR7\_20 M\_OBW\_Mid\_QPSK\_FullRB



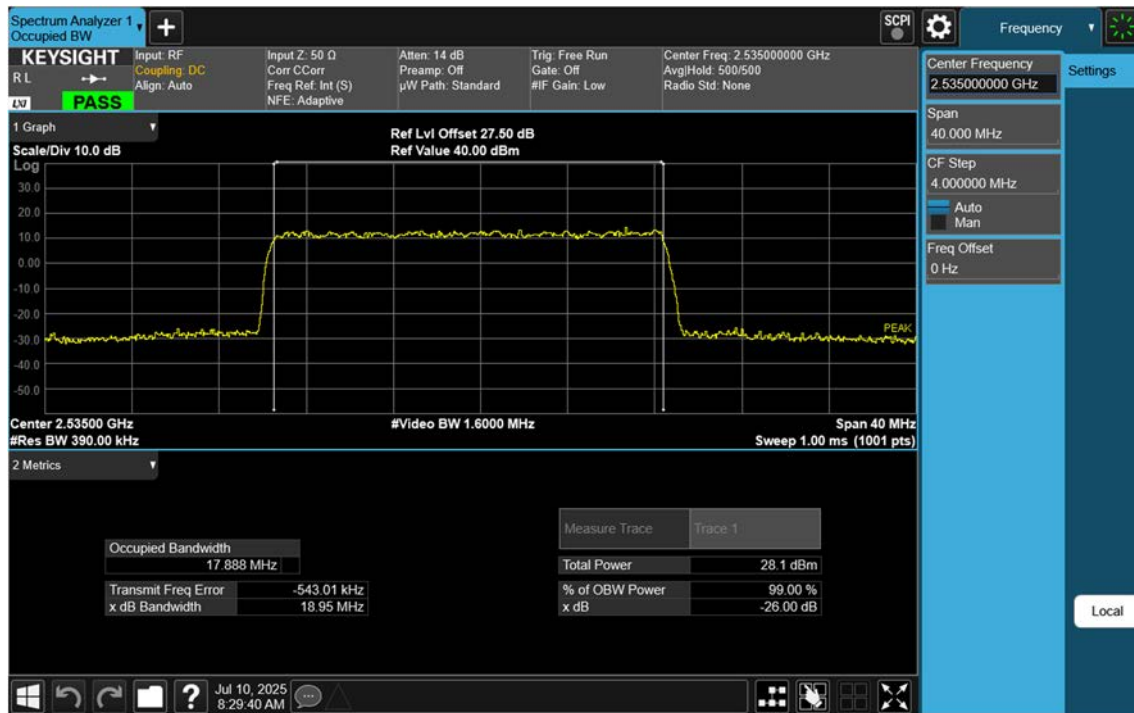
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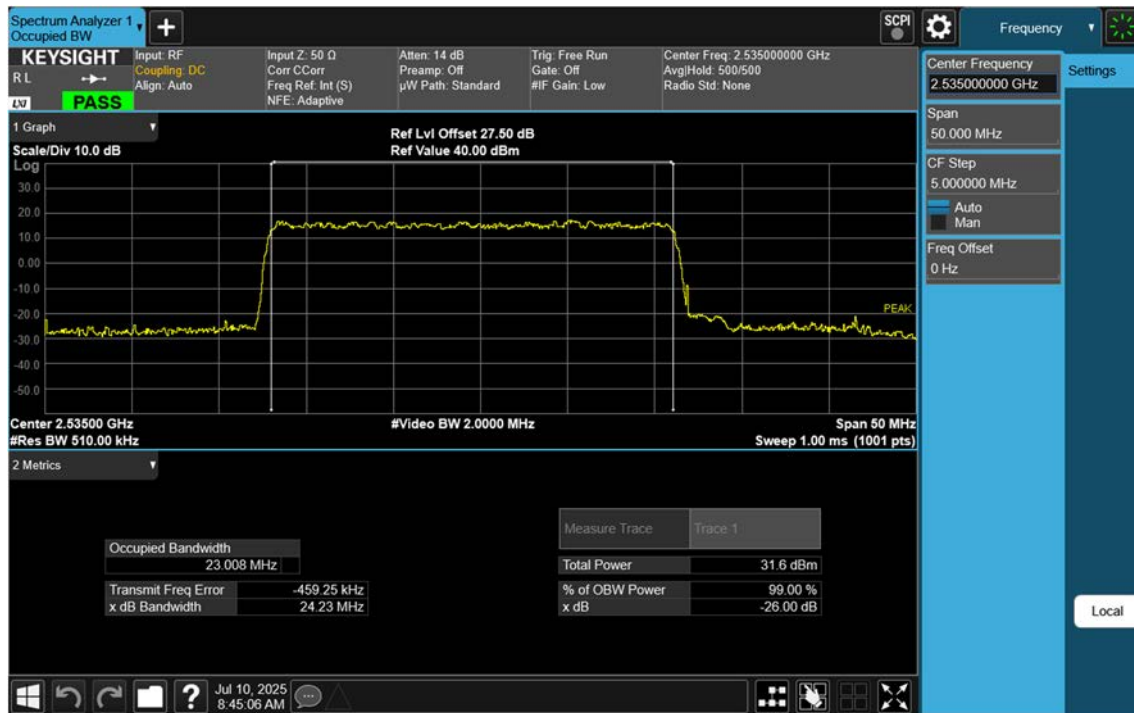
NR7\_20 M\_OBW\_Mid\_64QAM\_FullRB



NR7\_20 M\_OBW\_Mid\_256QAM\_FullRB



## NR7\_25 M\_OBW\_Mid\_BPSK\_FullRB



## NR7\_25 M\_OBW\_Mid\_QPSK\_FullRB



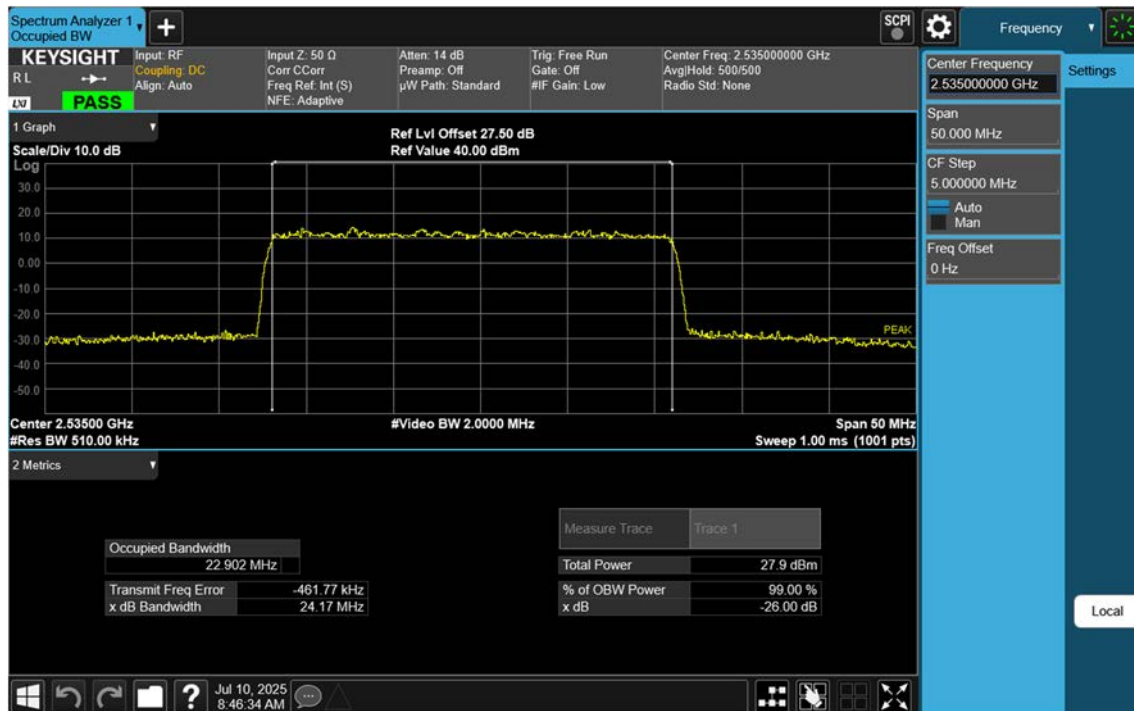
## NR7\_25 M\_OBW\_Mid\_16QAM\_FullRB



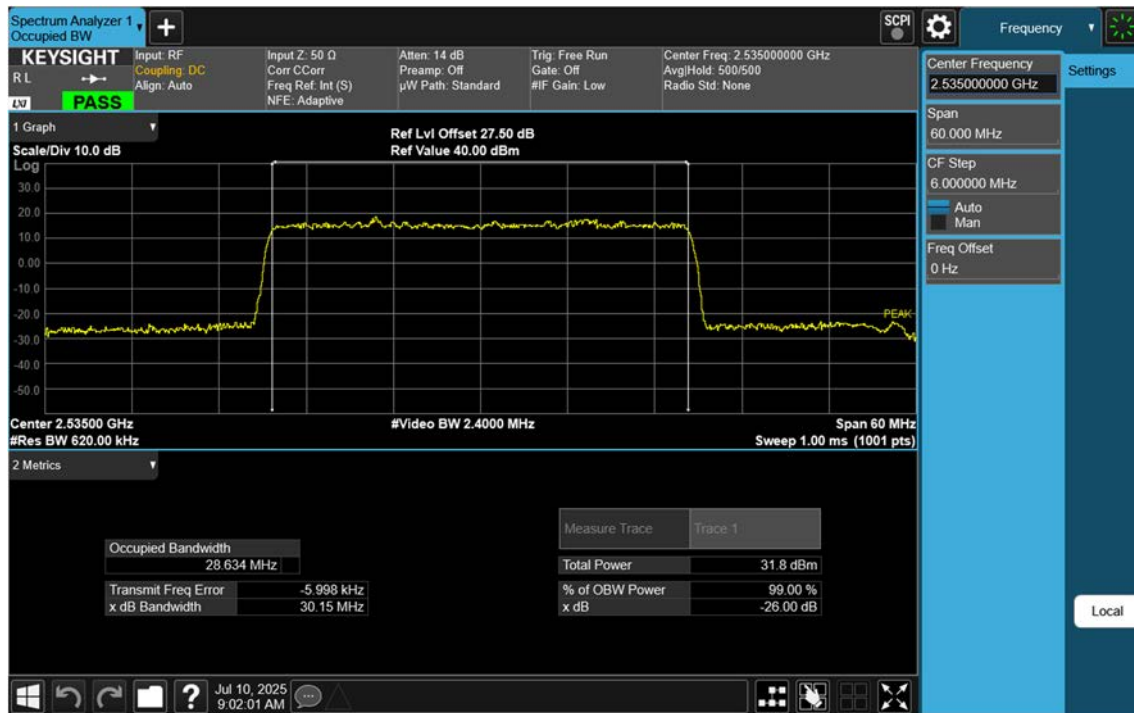
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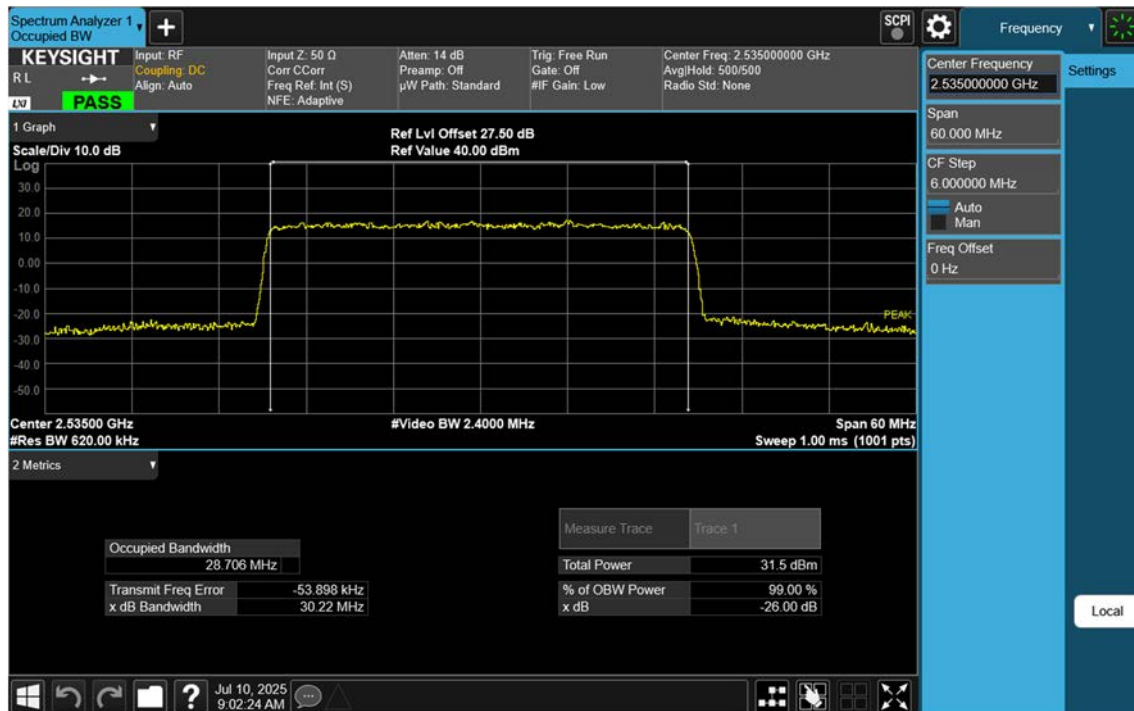
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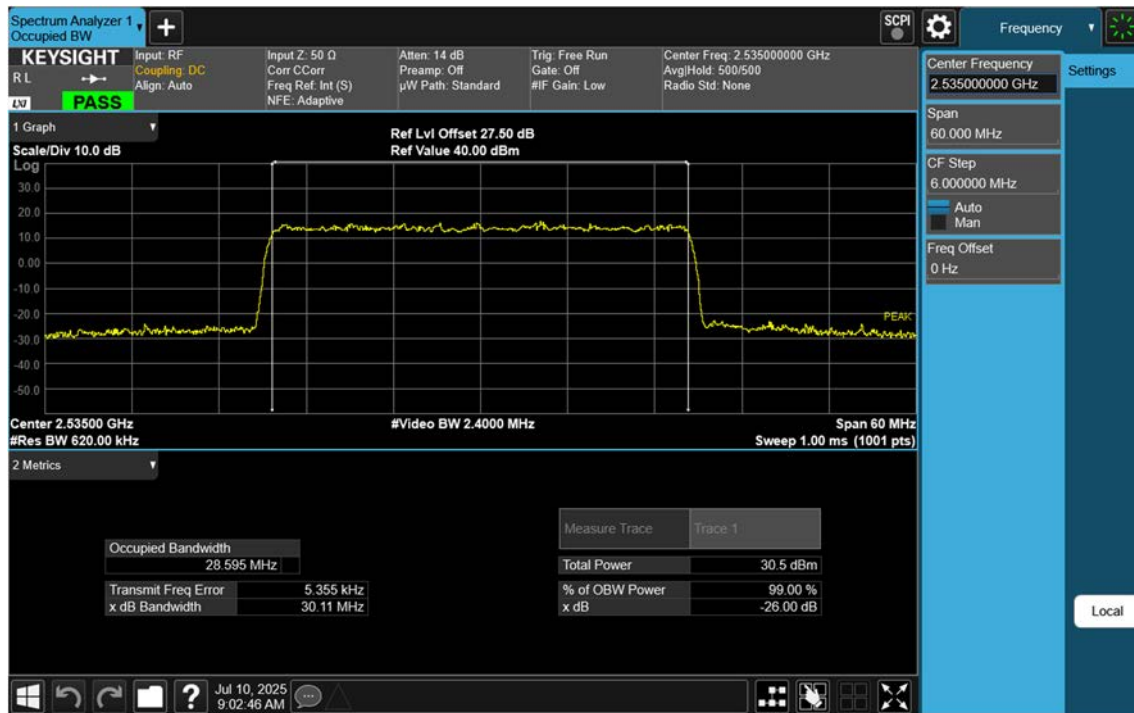
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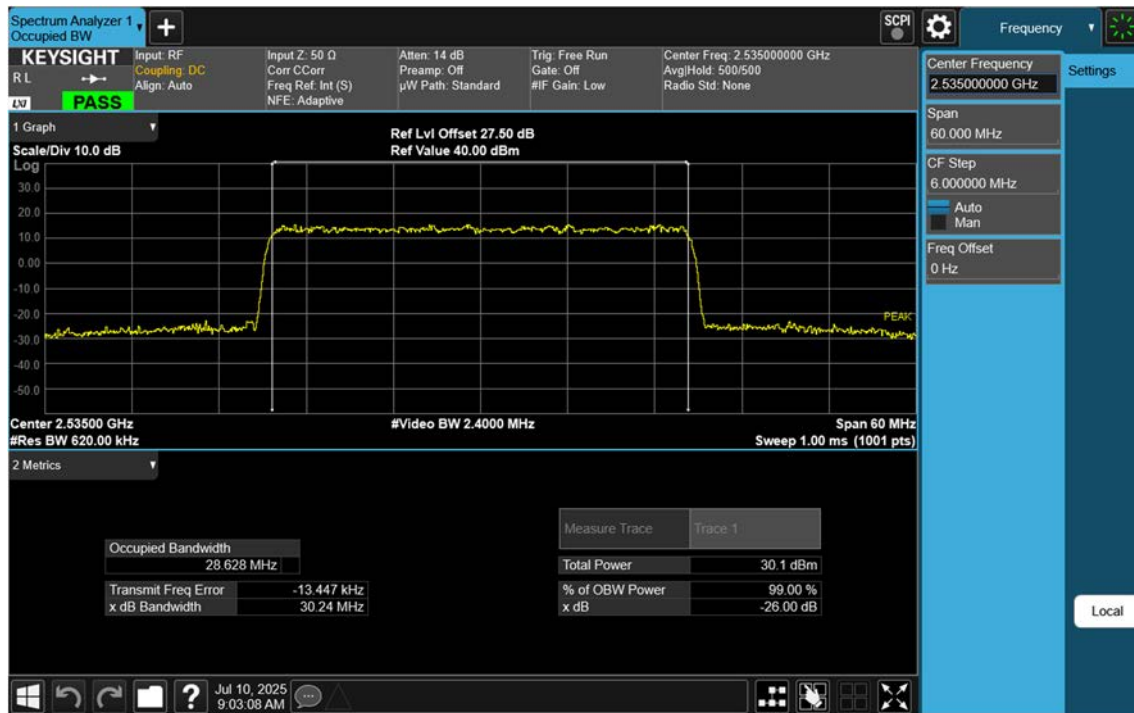
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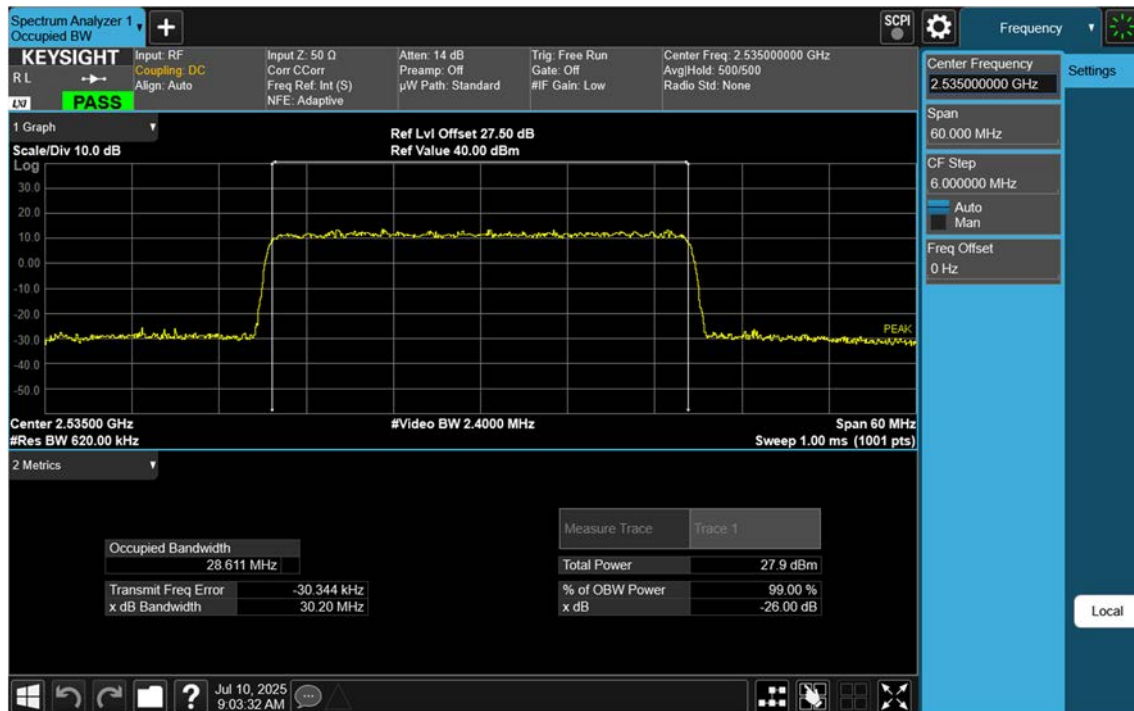
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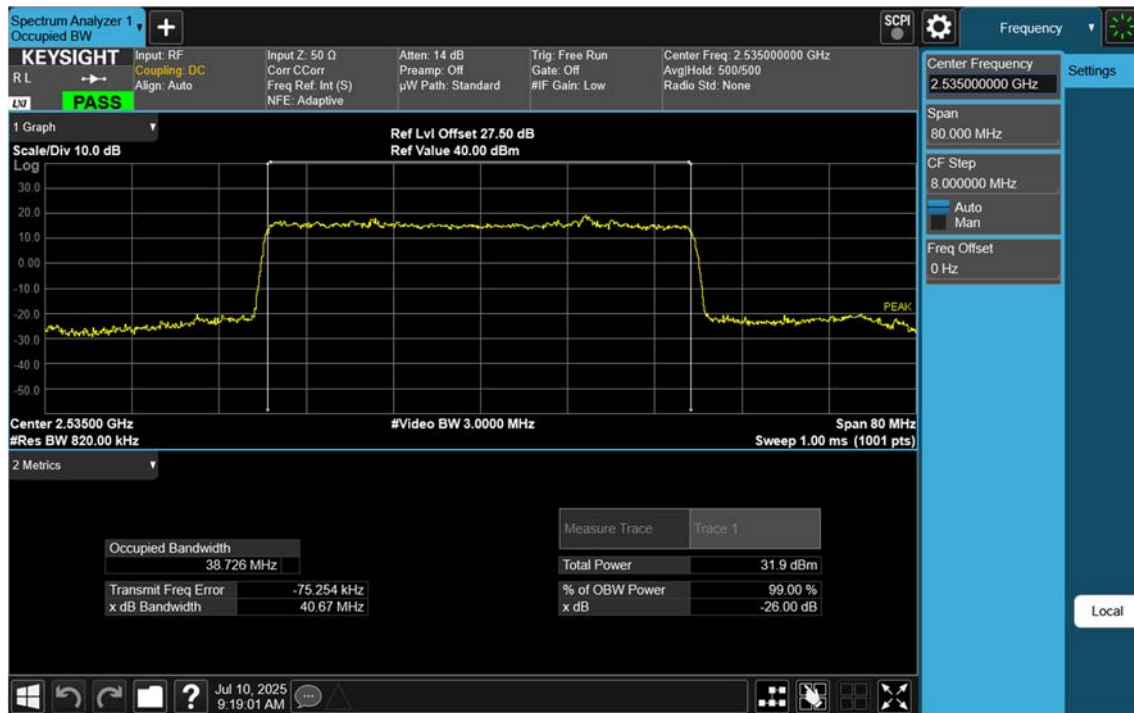
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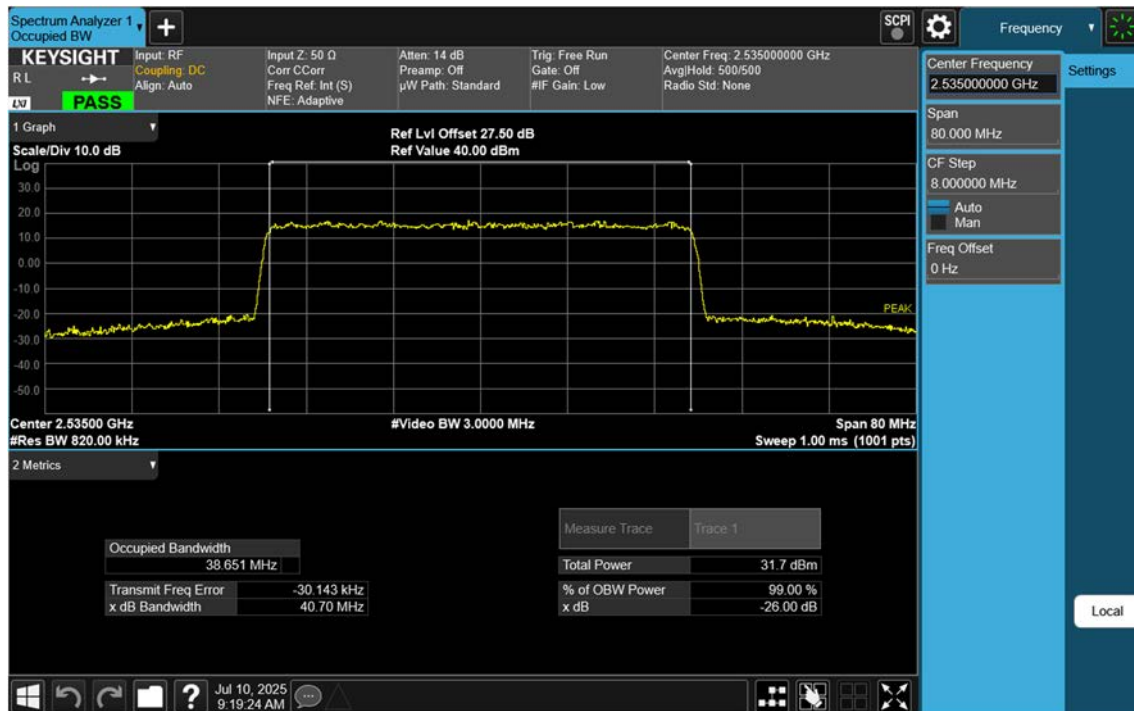
NR7\_30 M\_OBW\_Mid\_256QAM\_FullRB



## NR7\_40 M\_OBW\_Mid\_BPSK\_FullRB



## NR7\_40 M\_OBW\_Mid\_QPSK\_FullRB



## NR7\_40 M\_OBW\_Mid\_16QAM\_FullRB

