

# TEST REPORT

FCC Sub6 n7 Test for TFGMEIBBCD4  
Class II Permissive Change

**APPLICANT**  
LG Electronics Inc.

**REPORT NO.**  
HCT-RF-2409-FC007-R1

**DATE OF ISSUE**  
October 7, 2024

**Tested by**  
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# TEST REPORT

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October 07, 2024

**Additional Model**

TFGMEIBBCD5, TFGMEIBBCD6, TFGMEIBBCD7, TFGMEIBBCD8,  
TFGMEIBBCD9, TFGMEIBBCDA, TFGMEIBBCDB, TFGMEIBBCDC

**Applicant****LG Electronics Inc.**

10, MagokJungang-ro, Gangseo-gu, Seoul 07796, Republic of Korea

**Product Name**

GM Onstar Gen12 ROW

**Model Name**

TFGMEIBBCD4

**Date of Test**

February 27, 2023 ~ October 05, 2023

May 07, 2024 ~ June 19, 2024 (Only 256QAM)

**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**

BEJTFGMEIBBCD4

**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            | September 26, 2024 | Initial Release             |
| 1            | October 07, 2024   | Added the Note (Page 5, 21) |

## Notice

### Content

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)

The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

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## MEASUREMENT REPORT

### 1. GENERAL INFORMATION

|                                     |                                                                                                                                                                                                   |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applicant Name:</b>              | LG Electronics Inc.                                                                                                                                                                               |
| <b>Address:</b>                     | 10, MagokJungang-ro, Gangseo-gu, Seoul 07796, Republic of Korea                                                                                                                                   |
| <b>FCC ID:</b>                      | BEJTFGMEIBBCD4                                                                                                                                                                                    |
| <b>Application Type:</b>            | Class II Permissive Change                                                                                                                                                                        |
| <b>FCC Classification:</b>          | PCS Licensed Transmitter (PCB)                                                                                                                                                                    |
| <b>FCC Rule Part(s):</b>            | § 27                                                                                                                                                                                              |
| <b>EUT Type:</b>                    | GM Onstar Gen12 ROW                                                                                                                                                                               |
| <b>Model(s):</b>                    | TFGMEIBBCD4                                                                                                                                                                                       |
| <b>Additional Model(s)</b>          | TFGMEIBBCD5, TFGMEIBBCD6, TFGMEIBBCD7, TFGMEIBBCD8, TFGMEIBBCD9, TFGMEIBBCDA, TFGMEIBBCDB, TFGMEIBBCDC                                                                                            |
| <b>SCS(kHz):</b>                    | 15                                                                                                                                                                                                |
| <b>Bandwidth(MHz):</b>              | 5, 10, 15, 20                                                                                                                                                                                     |
| <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 : 5 MHz<br>2505.0 MHz – 2565.0 MHz : 10 MHz<br>2507.5 MHz – 2562.5 MHz : 15 MHz<br>2510.0 MHz – 2560.0 MHz : 20 MHz                                                       |
| <b>Date(s) of Tests:</b>            | February 27, 2023 ~ October 05, 2023<br>May 07, 2024 ~ June 19, 2024 (Only 256QAM)                                                                                                                |
| <b>Serial number:</b>               | Radiated<br>- External Antenna : EBR36018942_#30<br>- Internal Antenna : EBR36018942K_#14<br>- EBR36018942K_#30 (Only 256QAM)<br><br>Conducted : EBR36018829_#069, EBR36018942K_#30 (Only 256QAM) |
| <b>External Antenna Information</b> | ANT5 : 86531607<br>ANT4 : 86575530<br>DUT4 : 85608774                                                                                                                                             |

#### # Note :

- Original Certification : PI/2 BPSK, QPSK, 16QAM, 64QAM (Report No. HCT-RF-2308-FC002)
- C2PC : It was tested only for 256QAM

### 1.1. MAXIMUM OUTPUT POWER

| Mode<br>(MHz) | Tx Frequency<br>(MHz) | Emission<br>Designator | Modulation | EIRP<br>External Antenna |                     | EIRP<br>Internal Antenna |                     |
|---------------|-----------------------|------------------------|------------|--------------------------|---------------------|--------------------------|---------------------|
|               |                       |                        |            | Max. Power<br>(W)        | Max. Power<br>(dBm) | Max. Power<br>(W)        | Max. Power<br>(dBm) |
| Sub6 n7 (5)   | 2502.5 – 2567.5       | 4M49G7D                | PI/2 BPSK  | 0.413                    | 26.16               | 0.944                    | 29.75               |
|               |                       | 4M51G7D                | QPSK       | 0.410                    | 26.13               | 0.910                    | 29.59               |
|               |                       | 4M50W7D                | 16QAM      | 0.308                    | 24.88               | 0.746                    | 28.73               |
|               |                       | 4M48W7D                | 64QAM      | 0.228                    | 23.57               | 0.538                    | 27.31               |
|               |                       | 4M66W7D                | 256QAM     | 0.145                    | 21.60               | 0.341                    | 25.33               |
| Sub6 n7 (10)  | 2505.0 – 2565.0       | 8M99G7D                | PI/2 BPSK  | 0.387                    | 25.88               | 1.007                    | 30.03               |
|               |                       | 8M97G7D                | QPSK       | 0.367                    | 25.65               | 0.973                    | 29.88               |
|               |                       | 8M98W7D                | 16QAM      | 0.288                    | 24.60               | 0.796                    | 29.01               |
|               |                       | 8M97W7D                | 64QAM      | 0.215                    | 23.33               | 0.594                    | 27.74               |
|               |                       | 9M00W7D                | 256QAM     | 0.137                    | 21.38               | 0.384                    | 25.84               |
| Sub6 n7 (15)  | 2507.5 – 2562.5       | 13M5G7D                | PI/2 BPSK  | 0.372                    | 25.71               | 1.005                    | 30.02               |
|               |                       | 13M4G7D                | QPSK       | 0.356                    | 25.52               | 0.971                    | 29.87               |
|               |                       | 13M5W7D                | 16QAM      | 0.290                    | 24.63               | 0.800                    | 29.03               |
|               |                       | 13M5W7D                | 64QAM      | 0.208                    | 23.18               | 0.585                    | 27.67               |
|               |                       | 13M5W7D                | 256QAM     | 0.134                    | 21.28               | 0.372                    | 25.71               |
| Sub6 n7 (20)  | 2510.0 – 2560.0       | 17M9G7D                | PI/2 BPSK  | 0.370                    | 25.68               | 0.975                    | 29.89               |
|               |                       | 17M9G7D                | QPSK       | 0.362                    | 25.59               | 0.953                    | 29.79               |
|               |                       | 17M9W7D                | 16QAM      | 0.291                    | 24.64               | 0.776                    | 28.90               |
|               |                       | 17M9W7D                | 64QAM      | 0.217                    | 23.37               | 0.586                    | 27.68               |
|               |                       | 17M9W7D                | 256QAM     | 0.138                    | 21.39               | 0.366                    | 25.63               |

## 2. INTRODUCTION

### 2.1. DESCRIPTION OF EUT

The EUT was a GM Onstar Gen12 ROW with GSM/GPRS/EGPRS/UMTS and LTE, Sub6.

### 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**

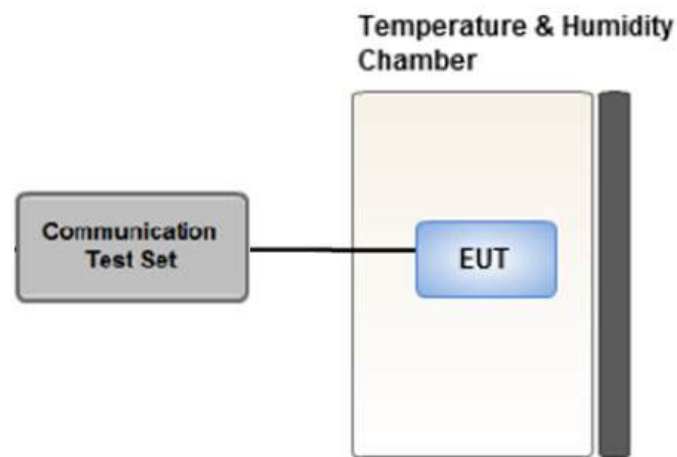
### 3. DESCRIPTION OF TESTS

#### 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           |
| Band 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                                          | - KDB 971168 D01 v03r01 – Section 5.2                                                 |
| 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                                                      |
| Effective Radiated Power/<br>Effective Isotropic Radiated Power | - KDB 971168 D01 v03r01 – Section 5.2 & 5.8<br>- ANSI/TIA-603-E-2016 – Section 2.2.17 |
| Radiated Spurious and Harmonic Emissions                        | - KDB 971168 D01 v03r01 – Section 6.2<br>- ANSI/TIA-603-E-2016 – Section 2.2.12       |



### 3.2 CONDUCTED OUTPUT POWER



Test setup

#### Test Overview

When an average power meter is used to perform RF output power measurements, the fundamental condition that measurements be performed only over durations of active transmissions at maximum output power level applies.

Conducted Output Power was tested in accordance with KDB971168 D01 Power Meas License Digital Systems v03r01, Section 5.2.

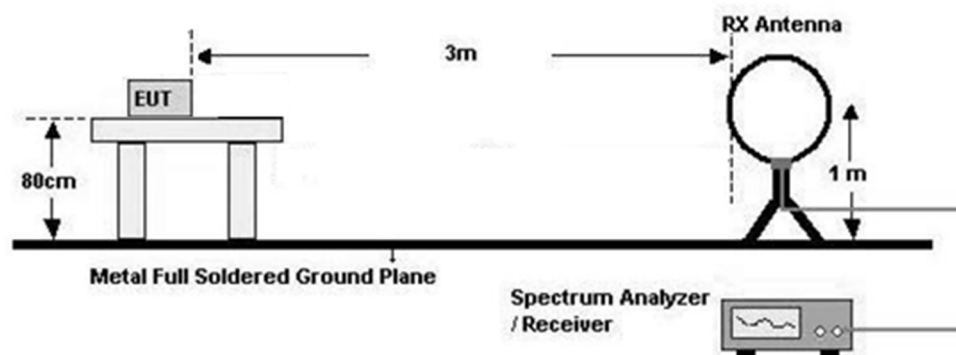
## 3.3 RADIATED TEST

### Test Overview

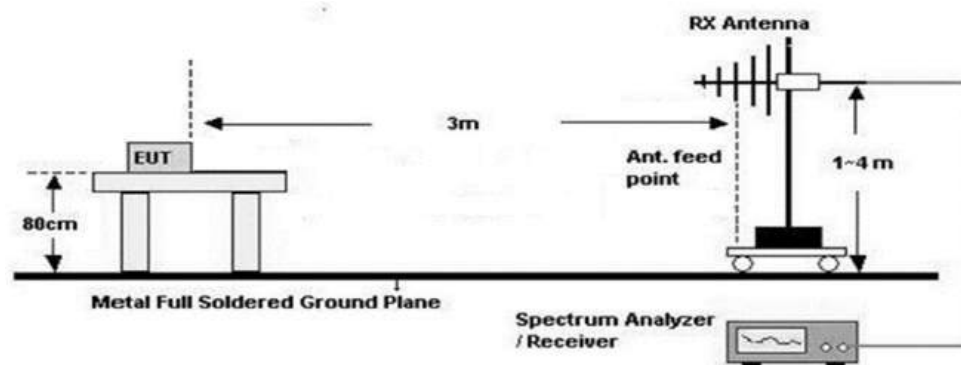
Radiated tests are performed in the semi-anechoic chamber. The equipment under test is placed on a non-conductive table on semi-anechoic chamber.

### Test Configuration

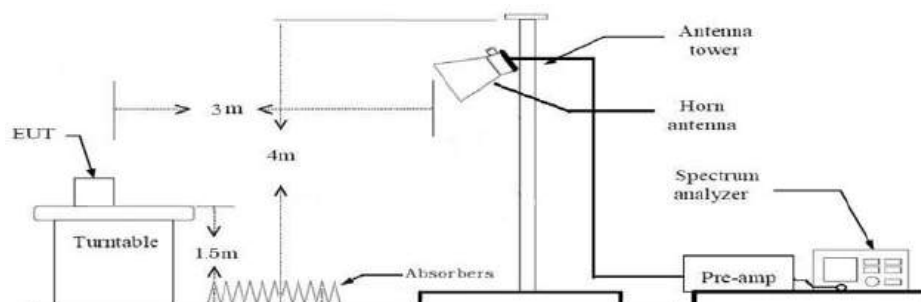
Below 30 MHz



30 MHz - 1 GHz



Above 1 GHz



### 3.3.1 RADIATED POWER

#### 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 EUT is placed on a turntable, which is 0.8 m above ground plane. (Below 1 GHz)
2. The EUT is placed on a turntable, which is 1.5 m above ground plane. (Above 1 GHz)
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
4. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
5. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
6. 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.
7.  $\text{Total(dB}\mu\text{V/m)} = \text{Measured Value(dB}\mu\text{V)} + \text{Cable Loss(dB)} + \text{Antenna Factor(dB/m)} + \text{Distance Factor(D.F)}$
8.  $\text{EIRP (dBm)}$   
 $= \text{Total (dB}\mu\text{V/m)} + 20 \log D - 104.8$  (where D is the measurement distance in meters. D=3)  
 $= \text{Total (dB}\mu\text{V/m)} - 95.2(\text{dB})$
9.  $\text{ERP(dBm)} = \text{EIRP(dBm)} - 2.15(\text{dB})$

### 3.3.2 RADIATED SPURIOUS EMISSIONS

#### 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. 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
2. 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.

#### Below 30 MHz

1. The loop antenna was placed at a location 3 m from the EUT
2. The EUT is placed on a turntable, which is 0.8 m above ground plane.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization and Parallel to the ground plane in detecting antenna.
4. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
5. Distance Correction Factor(0.009 MHz – 0.490 MHz) =  $40\log(3 \text{ m}/300 \text{ m}) = -80 \text{ dB}$   
Measurement Distance : 3 m
6. Distance Correction Factor(0.490 MHz – 30 MHz) =  $40\log(3 \text{ m}/30 \text{ m}) = -40 \text{ dB}$   
Measurement Distance : 3 m
7. Total = Measured Value + Antenna Factor(A.F) + Cable Loss(C.L) + Distance Factor(D.F)
8. EIRP (dBm)  
= Total (dB $\mu$ V/m) +  $20 \log D - 104.8$  (where D is the measurement distance in meters. D=3)  
= Total (dB $\mu$ V/m) - 95.2(dB)
9. ERP(dBm) = EIRP(dBm) - 2.15(dB)

**KDB 414788 OFS and Chamber Correlation Justification**

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

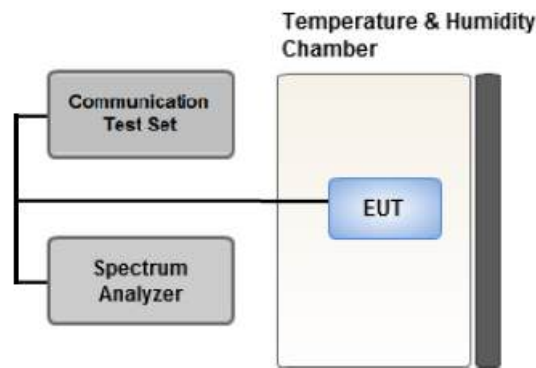
**Below 1 GHz**

1. The EUT is placed on a turntable, which is 0.8 m above ground plane.
2. The Hybrid antenna was placed at a location 3 m from the EUT, which is varied from 1 m to 4 m to find out the highest emissions.
3. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
4. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
5. Total = Measured Value + Antenna Factor(A.F) + Cable Loss(C.L)
7. Total(dBμV/m) = Measured Value(dBμV) + Cable Loss(dB) + Antenna Factor(dB/m) + Distance Factor(D.F)
8. EIRP (dBm)  
= Total (dBμV/m) + 20 log D – 104.8 (where D is the measurement distance in meters. D=3)  
= Total (dBμV/m) - 95.2(dB)
9. ERP(dBm) = EIRP(dBm) - 2.15(dB)

**Above 1 GHz**

1. The EUT is placed on a turntable, which is 1.5 m above ground plane.
2. We have done x, y, z planes in EUT and horizontal and vertical polarization in detecting antenna.
3. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
4. EUT is set 3 m away from the receiving antenna, which is varied from 1 m to 4 m to find out the highest emissions.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. Total(dBμV/m) = Measured Value(dBμV) + Cable Loss(dB) + Antenna Factor(dB/m) + Distance Factor(D.F)  
+ H.P.F(dB) - Amp Gain(dB)
8. EIRP (dBm)  
= Total (dBμV/m) + 20 log D – 104.8 (where D is the measurement distance in meters. D=3)  
= Total (dBμV/m) - 95.2(dB)

## 3.4 PEAK- TO- AVERAGE RATIO



Test setup

### ① 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 %.

### ② Alternate Procedure for PAPR

Use one of the procedures presented in 5.2(ANSI C63.26-2015) to measure the total peak power and record as  $P_{Pk}$ .

Use one of the applicable procedures presented 5.2(ANSI C63.26-2015) to measure the total average power and record as  $P_{Avg}$ . Determine the P.A.R. from:

$$P.A.R. (dB) = P_{Pk} (dBm) - P_{Avg} (dBm) \quad (P_{Avg} = \text{Average Power} + \text{Duty cycle Factor})$$

**Test Settings(Peak Power)**

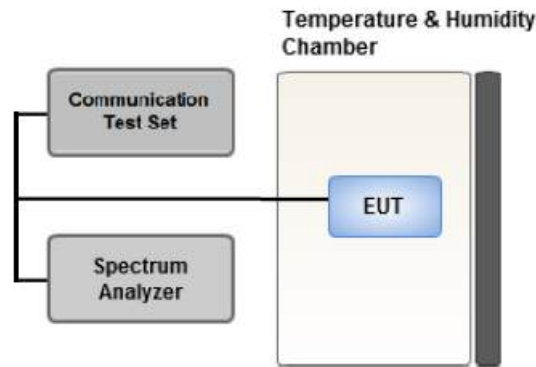
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW  $\geq 3 \times$  RBW.

1. Set the RBW  $\geq$  OBW.
2. Set VBW  $\geq 3 \times$  RBW.
3. Set span  $\geq 2 \times$  OBW.
4. Sweep time  $\geq 10 \times$  (number of points in sweep)  $\times$  (transmission symbol period).
5. Detector = peak.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the peak amplitude level.

**Test Settings(Average Power)**

1. Set span to  $2 \times$  to  $3 \times$  the OBW.
2. Set RBW  $\geq$  OBW.
3. Set VBW  $\geq 3 \times$  RBW.
4. Set number of measurement points in sweep  $\geq 2 \times$  span / RBW.
5. Sweep time:  
Set  $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission period})]$  for single sweep (automation-compatible) measurement. The transmission period is the (on + off) time.
6. Detector = power averaging (rms).
7. Set sweep trigger to "free run."
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. (To accurately determine the average power over the on and off period of the transmitter, it can be necessary to increase the number of traces to be averaged above 100 or, if using a manually configured sweep time, increase the sweep time.)
9. Use the peak marker function to determine the maximum amplitude level.
10. Add  $[10 \log (1/\text{duty cycle})]$  to the measured maximum power level to compute the average power during continuous transmission. For example, add  $[10 \log (1/0.25)] = 6 \text{ dB}$  if the duty cycle is a constant 25 %.

### 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.

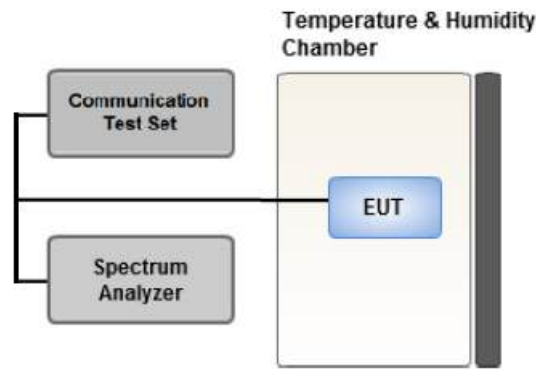
The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth

#### 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

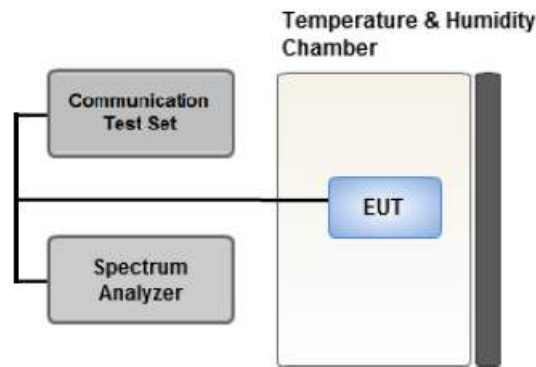
#### Test Overview

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 = RMS
4. Trace Mode = trace average
5. Sweep time = auto
6. Number of points in sweep  $\geq$  2 x Span / 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

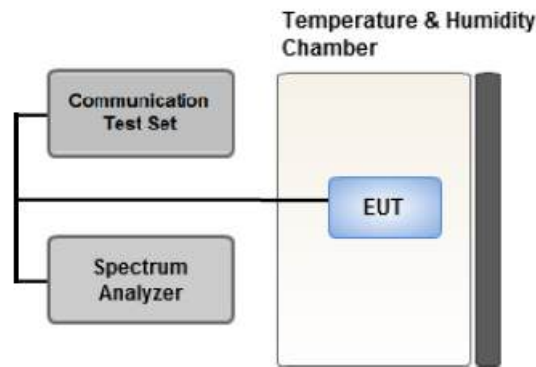
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. Within 1MHz of the channel edge the RBW should be 2% of EBW, then 1 MHz after that.
4.  $VBW > 3 \times RBW$
5. Detector = RMS
6. Number of sweep points  $\geq 2 \times \text{Span}/RBW$
7. Trace mode = trace average
8. Sweep time = auto couple
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.
- All modes of operation were investigated and the worst case configuration results are reported.  
Mode : SA, NSA  
Worst case : SA  
Mode : Internal Antenna, External Antenna (ANT 5, ANT 4, DUT 4)  
Worst case : Internal Antenna, External Antenna (ANT 5)
- The worst case is reported with the EUT positioning, modulations, and paging service configurations shown in the test data.
- Please refer to the table below.
- TFGMEIBBCD4 & additional models were tested and the worst case results are reported.  
(Worst case : TFGMEIBBCD4)
- 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.

[ External Antenna Worst case ]

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

[ Internal Antenna Worst case ]

| Test Description                   | Modulation                                        | RB size         | RB offset | Axis |
|------------------------------------|---------------------------------------------------|-----------------|-----------|------|
| Effective 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 8.1 |           | Y    |

### 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.
- TFGMEIBBCD4 & additional models were tested and the worst case results are reported.  
(Worst case : TFGMEIBBCD4)

[ 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,<br>20 | 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       |
|                                                        |                                                   | 5, 10, 15,<br>20 | Low,<br>High         | Full RB | 0         |
| Spurious and Harmonic Emissions<br>at Antenna Terminal | PI/2 BPSK                                         | 5, 10, 15,<br>20 | Low,<br>Mid,<br>High | 1       | 1         |

#### 4. LIST OF TEST

| Equipment                                                  | Model                          | Manufacturer              | Serial No.                 | Due to Calibration | Calibration Interval |
|------------------------------------------------------------|--------------------------------|---------------------------|----------------------------|--------------------|----------------------|
| Antenna Position Tower                                     | MA4640/800-XP-ET               | Innco systems             | N/A                        | N/A                | N/A                  |
| Turn Table                                                 | DS2000-S                       | Innco systems             | N/A                        | N/A                | N/A                  |
| Turn Table                                                 | Turn Table                     | Ets                       | N/A                        | N/A                | N/A                  |
| Controller<br>(Antenna mast & Turn Table)                  | CO3000                         | Innco systems             | CO3000/1542/<br>57580623/G | N/A                | N/A                  |
| Amp & Filter Bank Switch<br>Controller                     | FBSM-01B                       | TNM system                | TM20090001                 | N/A                | N/A                  |
| RF Switch System                                           | TMX0132C                       | TNM System                | TM21100002                 | N/A                | N/A                  |
| RF Switch System                                           | FBSR-04C HPF1                  | TNM System                | S5L1                       | 03/12/2025         | Annual               |
| RF Switch System                                           | FBSR-04C LNA1                  | TNM System                | S5L4                       | 03/12/2025         | Annual               |
| RF Switch System                                           | FBSR-04C HPF2                  | TNM System                | S5L5                       | 03/12/2025         | Annual               |
| HIGHPASS FILTER                                            | WHKX10-900-1000-<br>15000-40SS | WAINWRIGHT<br>INSTRUMENTS | 16                         | 07/24/2025         | Annual               |
| HIGHPASS FILTER                                            | WHNX6.0/26.5G-6SS              | WAINWRIGHT<br>INSTRUMENTS | 1                          | 12/11/2024         | Annual               |
| Power Amplifier                                            | CBL18265035                    | CERNEX                    | 22966                      | 11/17/2024         | Annual               |
| Power Amplifier                                            | CBL26405040                    | CERNEX                    | 25956                      | 02/26/2025         | Annual               |
| Loop Antenna<br>(9 kHz ~ 30 MHz)                           | FMZB1513                       | Schwarzbeck               | 1513-333                   | 03/07/2026         | Biennial             |
| Horn Antenna(1 ~ 18 GHz)                                   | HF907                          | ROHDE &<br>SCHWARZ        | 103224                     | 05/07/2026         | Biennial             |
| Horn Antenna(15 ~ 40 GHz)                                  | BBHA 9170                      | Schwarzbeck               | BBHA9170342                | 09/20/2026         | Biennial             |
| Bilog Antenna                                              | VULB9160                       | Schwarzbeck               | 3150                       | 03/09/2025         | Biennial             |
| Hybrid Antenna                                             | VULB9160                       | Schwarzbeck               | 760                        | 02/24/2025         | Biennial             |
| Trilog Broadband Antenna                                   | VULB 9168                      | Schwarzbeck               | 1135                       | 08/19/2026         | Biennial             |
| Chamber                                                    | SU-642                         | ESPEC                     | 93008124                   | 02/19/2025         | Annual               |
| Power Splitter(DC~26.5 GHz)                                | 11667B                         | Hewlett Packard           | 11275                      | 02/19/2025         | Annual               |
| DC Power Supply                                            | E3632A                         | Hewlett Packard           | KR01009150                 | 04/18/2025         | Annual               |
| 4-Way Divider                                              | ZC4PD-K1844+                   | Mini-Circuits             | 942907                     | 09/10/2025         | Annual               |
| ATTENUATOR(20 dB)                                          | 8493C                          | Hewlett Packard           | 17280                      | 04/17/2025         | Annual               |
| Spectrum Analyzer(10 Hz ~<br>40 GHz)                       | FSV40                          | ROHDE &<br>SCHWARZ        | 101510                     | 03/28/2025         | Annual               |
| Base Station                                               | 8960 (E5515C)                  | Agilent                   | MY48360800                 | 08/05/2025         | Annual               |
| Wideband Radio<br>Communication Tester                     | MT8821C                        | Anritsu Corp.             | 6262287701                 | 05/16/2025         | Annual               |
| Wideband Radio<br>Communication Tester                     | MT8000A                        | Anritsu Corp.             | 6262302511                 | 05/14/2025         | Annual               |
| Signal Analyzer<br>(10 Hz ~ 26.5 GHz)                      | N9020A                         | Agilent                   | MY52090906                 | 04/19/2025         | Annual               |
| Signal Analyzer<br>(5 Hz ~ 40.0 GHz)                       | N9030B                         | KEYSIGHT                  | MY55480167                 | 05/17/2025         | Annual               |
| FCC LTE Mobile Conducted<br>RF Automation Test<br>Software | -                              | 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 ( $\pm$ dB)           |
|------------------------------------------|--------------------------------------------|
| Conducted Disturbance (150 kHz ~ 30 MHz) | 1.98 (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)    | 5.70 (Confidence level about 95 %, $k=2$ ) |
| Radiated Disturbance (1 GHz ~ 18 GHz)    | 5.52 (Confidence level about 95 %, $k=2$ ) |
| Radiated Disturbance (18 GHz ~ 40 GHz)   | 5.66 (Confidence level about 95 %, $k=2$ ) |
| Radiated Disturbance (Above 40 GHz)      | 5.58 (Confidence level about 95 %, $k=2$ ) |



## 6. SUMMARY OF TEST RESULTS

### 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                                                                                                                                                                                                                                                                                                                                                                                                                                         | PASS        |
| Frequency stability / variation of ambient temperature           | §2.1055,<br>§27.54       | Emission must remain in band                                                                                                                                                                                                                                                                                                                                                                                                                | PASS        |

**Note:**

1. 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. 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

### 8.1 Conducted Output Power

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max.Average Power (dBm) |          |            |
|-----------|----------|-------|------------|---------|-----------|-------------------------|----------|------------|
|           |          |       |            |         |           | 500500                  | 507000   | 513500     |
|           |          |       |            |         |           | 2502.5 MHz              | 2535 MHz | 2567.5 MHz |
| 5 MHz     | 15       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.69                   | 23.89    | 23.82      |
|           |          |       |            | 1       | 13        | 23.55                   | 23.82    | 23.60      |
|           |          |       |            | 1       | 23        | 23.62                   | 23.79    | 23.61      |
|           |          |       |            | 12      | 0         | 23.06                   | 23.30    | 23.26      |
|           |          |       |            | 12      | 7         | 23.57                   | 23.87    | 23.79      |
|           |          |       |            | 12      | 13        | 23.12                   | 23.40    | 23.25      |
|           |          |       |            | 25      | 0         | 23.10                   | 23.40    | 23.24      |
|           |          |       | QPSK       | 1       | 1         | 23.57                   | 23.79    | 23.78      |
|           |          |       | 16QAM      | 1       | 1         | 22.52                   | 22.74    | 22.71      |
|           |          |       | 64QAM      | 1       | 1         | 21.24                   | 21.47    | 21.48      |
|           |          |       | 256QAM     | 1       | 1         | 19.59                   | 19.46    | 19.40      |
|           |          | CP    | QPSK       | 1       | 1         | 21.92                   | 22.16    | 22.13      |

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max.Average Power (dBm) |          |          |
|-----------|----------|-------|------------|---------|-----------|-------------------------|----------|----------|
|           |          |       |            |         |           | 501000                  | 507000   | 513000   |
|           |          |       |            |         |           | 2505 MHz                | 2535 MHz | 2565 MHz |
| 10 MHz    | 15       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.83                   | 23.96    | 23.84    |
|           |          |       |            | 1       | 26        | 23.69                   | 23.80    | 23.67    |
|           |          |       |            | 1       | 50        | 23.72                   | 23.79    | 23.69    |
|           |          |       |            | 25      | 0         | 23.22                   | 23.31    | 23.24    |
|           |          |       |            | 25      | 14        | 23.73                   | 23.91    | 23.73    |
|           |          |       |            | 25      | 27        | 23.23                   | 23.39    | 23.28    |
|           |          |       |            | 50      | 0         | 23.25                   | 23.33    | 23.21    |
|           |          |       | QPSK       | 1       | 1         | 23.70                   | 23.81    | 23.75    |
|           |          |       | 16QAM      | 1       | 1         | 22.71                   | 22.86    | 22.64    |
|           |          |       | 64QAM      | 1       | 1         | 21.33                   | 21.49    | 21.44    |
|           |          |       | 256QAM     | 1       | 1         | 19.50                   | 19.47    | 19.42    |
|           |          | CP    | QPSK       | 1       | 1         | 22.10                   | 22.24    | 22.16    |

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max.Average Power (dBm) |          |            |
|-----------|----------|-------|------------|---------|-----------|-------------------------|----------|------------|
|           |          |       |            |         |           | 501500                  | 507000   | 512500     |
|           |          |       |            |         |           | 2507.5 MHz              | 2535 MHz | 2562.5 MHz |
| 15 MHz    | 15       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.90                   | 24.00    | 23.93      |
|           |          |       |            | 1       | 40        | 23.86                   | 23.86    | 23.79      |
|           |          |       |            | 1       | 77        | 23.88                   | 23.89    | 23.73      |
|           |          |       |            | 36      | 0         | 23.29                   | 23.50    | 23.32      |
|           |          |       |            | 36      | 22        | 23.87                   | 23.96    | 23.82      |
|           |          |       |            | 36      | 43        | 23.36                   | 23.43    | 23.27      |
|           |          |       |            | 75      | 0         | 23.37                   | 23.45    | 23.37      |
|           |          |       | QPSK       | 1       | 1         | 23.76                   | 23.92    | 23.88      |
|           |          |       | 16QAM      | 1       | 1         | 22.70                   | 22.97    | 22.75      |
|           |          |       | 64QAM      | 1       | 1         | 21.41                   | 21.64    | 21.49      |
|           |          |       | 256QAM     | 1       | 1         | 19.63                   | 19.53    | 19.41      |
|           |          | CP    | QPSK       | 1       | 1         | 22.13                   | 22.50    | 22.23      |

| Bandwidth | SCS(kHz) | OFDM  | Modulation | RB Size | RB Offset | Max.Average Power (dBm) |          |          |
|-----------|----------|-------|------------|---------|-----------|-------------------------|----------|----------|
|           |          |       |            |         |           | 502000                  | 507000   | 512000   |
|           |          |       |            |         |           | 2510 MHz                | 2535 MHz | 2560 MHz |
| 20 MHz    | 15       | DFT-s | pi/2 BPSK  | 1       | 1         | 23.95                   | 23.98    | 23.96    |
|           |          |       |            | 1       | 53        | 23.88                   | 23.92    | 23.83    |
|           |          |       |            | 1       | 104       | 24.01                   | 23.85    | 23.66    |
|           |          |       |            | 50      | 0         | 23.32                   | 23.46    | 23.33    |
|           |          |       |            | 50      | 28        | 23.91                   | 23.93    | 23.85    |
|           |          |       |            | 50      | 56        | 23.41                   | 23.33    | 23.22    |
|           |          |       |            | 100     | 0         | 23.35                   | 23.44    | 23.33    |
|           |          |       | QPSK       | 1       | 1         | 23.77                   | 23.94    | 23.86    |
|           |          |       | 16QAM      | 1       | 1         | 22.69                   | 22.85    | 22.77    |
|           |          |       | 64QAM      | 1       | 1         | 21.37                   | 21.60    | 21.45    |
|           |          |       | 256QAM     | 1       | 1         | 19.65                   | 19.59    | 19.42    |
|           |          | CP    | QPSK       | 1       | 1         | 22.19                   | 22.41    | 22.27    |

## 8.2 EQUIVALENT ISOTROPIC RADIATED POWER

### 8.2.1 External Antenna

| Freq<br>(MHz) | Bandwidth                     | Modulation | Measured<br>Level<br>(dBμV) | A.F+C.L+D.F<br>(dB/m) | Total<br>(dBμV/m) | Pol | Limit  | EIRP  |       | RB   |        |
|---------------|-------------------------------|------------|-----------------------------|-----------------------|-------------------|-----|--------|-------|-------|------|--------|
|               |                               |            |                             |                       |                   |     | W      | W     | dBm   | Size | Offset |
| 2502.5        | Sub6 n7/<br>5 MHz<br>[15 kHz] | PI/2 BPSK  | 84.60                       | 35.81                 | 120.41            | V   | < 2.00 | 0.332 | 25.21 | 1    | 1      |
|               |                               | QPSK       | 84.42                       | 35.81                 | 120.23            | V   |        | 0.318 | 25.03 |      |        |
|               |                               | 16-QAM     | 83.52                       | 35.81                 | 119.33            | V   |        | 0.259 | 24.13 |      |        |
|               |                               | 64-QAM     | 82.20                       | 35.81                 | 118.01            | V   |        | 0.191 | 22.81 |      |        |
|               |                               | 256-QAM    | 80.50                       | 35.81                 | 116.31            | V   |        | 0.129 | 21.11 |      |        |
| 2535.0        |                               | PI/2 BPSK  | 85.78                       | 35.58                 | 121.36            | V   |        | 0.413 | 26.16 | 1    | 23     |
|               |                               | QPSK       | 85.75                       | 35.58                 | 121.33            | V   |        | 0.410 | 26.13 |      |        |
|               |                               | 16-QAM     | 84.50                       | 35.58                 | 120.08            | V   |        | 0.308 | 24.88 |      |        |
|               |                               | 64-QAM     | 83.19                       | 35.58                 | 118.77            | V   |        | 0.228 | 23.57 |      |        |
|               |                               | 256-QAM    | 81.22                       | 35.58                 | 116.80            | V   |        | 0.145 | 21.60 |      |        |
| 2567.5        |                               | PI/2 BPSK  | 83.98                       | 35.58                 | 119.56            | V   |        | 0.273 | 24.36 | 1    | 1      |
|               |                               | QPSK       | 83.75                       | 35.58                 | 119.33            | V   |        | 0.259 | 24.13 |      |        |
|               |                               | 16-QAM     | 83.01                       | 35.58                 | 118.59            | V   |        | 0.218 | 23.39 |      |        |
|               |                               | 64-QAM     | 81.45                       | 35.58                 | 117.03            | V   |        | 0.153 | 21.83 |      |        |
|               |                               | 256-QAM    | 79.51                       | 35.58                 | 115.09            | V   |        | 0.098 | 19.89 |      |        |

| Freq<br>(MHz) | Bandwidth                      | Modulation | Measured        | A.F+C.L+D.F<br>(dB/m) | Total<br>(dBμV/m) | Pol | Limit | EIRP  |       | RB   |        |
|---------------|--------------------------------|------------|-----------------|-----------------------|-------------------|-----|-------|-------|-------|------|--------|
|               |                                |            | Level<br>(dBμV) |                       |                   |     | W     | W     | dBm   | Size | Offset |
| 2505.0        | Sub6 n7/<br>10 MHz<br>[15 kHz] | PI/2 BPSK  | 84.02           | 35.84                 | 119.86            | V   | <2.00 | 0.293 | 24.66 | 1    | 1      |
|               |                                | QPSK       | 84.00           | 35.84                 | 119.84            | V   |       | 0.291 | 24.64 |      |        |
|               |                                | 16-QAM     | 82.85           | 35.84                 | 118.69            | V   |       | 0.223 | 23.49 |      |        |
|               |                                | 64-QAM     | 81.58           | 35.84                 | 117.42            | V   |       | 0.167 | 22.22 |      |        |
|               |                                | 256-QAM    | 79.77           | 35.84                 | 115.61            | V   |       | 0.110 | 20.41 |      |        |
| 2535.0        |                                | PI/2 BPSK  | 85.50           | 35.58                 | 121.08            | V   |       | 0.387 | 25.88 | 1    | 50     |
|               |                                | QPSK       | 85.27           | 35.58                 | 120.85            | V   |       | 0.367 | 25.65 |      |        |
|               |                                | 16-QAM     | 84.22           | 35.58                 | 119.80            | V   |       | 0.288 | 24.60 |      |        |
|               |                                | 64-QAM     | 82.95           | 35.58                 | 118.53            | V   |       | 0.215 | 23.33 |      |        |
|               |                                | 256-QAM    | 81.00           | 35.58                 | 116.58            | V   |       | 0.137 | 21.38 |      |        |
| 2565.0        |                                | PI/2 BPSK  | 84.45           | 35.62                 | 120.07            | V   |       | 0.307 | 24.87 | 1    | 1      |
|               |                                | QPSK       | 84.32           | 35.62                 | 119.94            | V   |       | 0.298 | 24.74 |      |        |
|               |                                | 16-QAM     | 83.25           | 35.62                 | 118.87            | V   |       | 0.233 | 23.67 |      |        |
|               |                                | 64-QAM     | 81.90           | 35.62                 | 117.52            | V   |       | 0.171 | 22.32 |      |        |
|               |                                | 256-QAM    | 79.99           | 35.62                 | 115.61            | V   |       | 0.110 | 20.41 |      |        |

| Freq<br>(MHz) | Bandwidth                      | Modulation | Measured<br>Level<br>(dBμV) | A.F+C.L+D.F<br>(dB/m) | Total<br>(dBμV/m) | Pol | Limit | EIRP  |       | RB   |        |
|---------------|--------------------------------|------------|-----------------------------|-----------------------|-------------------|-----|-------|-------|-------|------|--------|
|               |                                |            |                             |                       |                   |     | W     | W     | dBm   | Size | Offset |
| 2507.5        | Sub6 n7/<br>15 MHz<br>[15 kHz] | PI/2 BPSK  | 84.11                       | 35.78                 | 119.89            | V   | <2.00 | 0.294 | 24.69 | 1    | 1      |
|               |                                | QPSK       | 84.09                       | 35.78                 | 119.87            | V   |       | 0.293 | 24.67 |      |        |
|               |                                | 16-QAM     | 82.99                       | 35.78                 | 118.77            | V   |       | 0.228 | 23.57 |      |        |
|               |                                | 64-QAM     | 81.55                       | 35.78                 | 117.33            | V   |       | 0.163 | 22.13 |      |        |
|               |                                | 256-QAM    | 79.71                       | 35.78                 | 115.49            | V   |       | 0.107 | 20.29 |      |        |
| 2535.0        |                                | PI/2 BPSK  | 85.33                       | 35.58                 | 120.91            | V   |       | 0.372 | 25.71 | 1    | 77     |
|               |                                | QPSK       | 85.14                       | 35.58                 | 120.72            | V   |       | 0.356 | 25.52 |      |        |
|               |                                | 16-QAM     | 84.25                       | 35.58                 | 119.83            | V   |       | 0.290 | 24.63 |      |        |
|               |                                | 64-QAM     | 82.80                       | 35.58                 | 118.38            | V   |       | 0.208 | 23.18 |      |        |
|               |                                | 256-QAM    | 80.90                       | 35.58                 | 116.48            | V   |       | 0.134 | 21.28 |      |        |
| 2562.5        |                                | PI/2 BPSK  | 84.77                       | 35.61                 | 120.38            | V   |       | 0.329 | 25.18 | 1    | 1      |
|               |                                | QPSK       | 84.75                       | 35.61                 | 120.36            | V   |       | 0.328 | 25.16 |      |        |
|               |                                | 16-QAM     | 83.62                       | 35.61                 | 119.23            | V   |       | 0.253 | 24.03 |      |        |
|               |                                | 64-QAM     | 82.33                       | 35.61                 | 117.94            | V   |       | 0.188 | 22.74 |      |        |
|               |                                | 256-QAM    | 80.21                       | 35.61                 | 115.82            | V   |       | 0.115 | 20.62 |      |        |

| Freq<br>(MHz) | Bandwidth                      | Modulation | Measured<br>Level<br>(dBμV) | A.F+C.L+D.F<br>(dB/m) | Total<br>(dBμV/m) | Pol | Limit | EIRP  |       | RB   |        |
|---------------|--------------------------------|------------|-----------------------------|-----------------------|-------------------|-----|-------|-------|-------|------|--------|
|               |                                |            |                             |                       |                   |     | W     | W     | dBm   | Size | Offset |
| 2510.0        | Sub6 n7/<br>20 MHz<br>[15 kHz] | PI/2 BPSK  | 84.11                       | 35.71                 | 119.82            | V   | <2.00 | 0.290 | 24.62 | 1    | 104    |
|               |                                | QPSK       | 83.90                       | 35.71                 | 119.61            | V   |       | 0.276 | 24.41 |      |        |
|               |                                | 16-QAM     | 83.10                       | 35.71                 | 118.81            | V   |       | 0.230 | 23.61 |      |        |
|               |                                | 64-QAM     | 82.00                       | 35.71                 | 117.71            | V   |       | 0.178 | 22.51 |      |        |
|               |                                | 256-QAM    | 80.30                       | 35.71                 | 116.01            | V   |       | 0.121 | 20.81 |      |        |
| 2535.0        |                                | PI/2 BPSK  | 85.30                       | 35.58                 | 120.88            | V   |       | 0.370 | 25.68 | 1    | 53     |
|               |                                | QPSK       | 85.21                       | 35.58                 | 120.79            | V   |       | 0.362 | 25.59 |      |        |
|               |                                | 16-QAM     | 84.26                       | 35.58                 | 119.84            | V   |       | 0.291 | 24.64 |      |        |
|               |                                | 64-QAM     | 82.99                       | 35.58                 | 118.57            | V   |       | 0.217 | 23.37 |      |        |
|               |                                | 256-QAM    | 81.01                       | 35.58                 | 116.59            | V   |       | 0.138 | 21.39 |      |        |
| 2560.0        |                                | PI/2 BPSK  | 84.72                       | 35.58                 | 120.30            | V   |       | 0.324 | 25.10 | 1    | 1      |
|               |                                | QPSK       | 84.62                       | 35.58                 | 120.20            | V   |       | 0.316 | 25.00 |      |        |
|               |                                | 16-QAM     | 83.74                       | 35.58                 | 119.32            | V   |       | 0.258 | 24.12 |      |        |
|               |                                | 64-QAM     | 82.50                       | 35.58                 | 118.08            | V   |       | 0.194 | 22.88 |      |        |
|               |                                | 256-QAM    | 80.48                       | 35.58                 | 116.06            | V   |       | 0.122 | 20.86 |      |        |



### 8.2.2 Internal Antenna

| Freq<br>(MHz) | Bandwidth                     | Modulation | Measured        | A.F+C.L+D.F<br>(dB/m) | Total<br>(dBμV/m) | Pol | Limit | EIRP  |       | RB   |        |
|---------------|-------------------------------|------------|-----------------|-----------------------|-------------------|-----|-------|-------|-------|------|--------|
|               |                               |            | Level<br>(dBμV) |                       |                   |     | W     | W     | dBm   | Size | Offset |
| 2502.5        | Sub6 n7/<br>5 MHz<br>[15 kHz] | PI/2 BPSK  | 88.30           | 35.81                 | 124.11            | H   | <2.00 | 0.777 | 28.91 | 1    | 1      |
|               |                               | QPSK       | 88.20           | 35.81                 | 124.01            | H   |       | 0.760 | 28.81 |      |        |
|               |                               | 16-QAM     | 87.26           | 35.81                 | 123.07            | H   |       | 0.612 | 27.87 |      |        |
|               |                               | 64-QAM     | 85.92           | 35.81                 | 121.73            | H   |       | 0.449 | 26.53 |      |        |
|               |                               | 256-QAM    | 84.16           | 35.81                 | 119.97            | H   |       | 0.300 | 24.77 |      |        |
| 2535.0        |                               | PI/2 BPSK  | 89.01           | 35.58                 | 124.59            | H   |       | 0.869 | 29.39 | 1    | 12     |
|               |                               | QPSK       | 88.97           | 35.58                 | 124.55            | H   |       | 0.861 | 29.35 |      |        |
|               |                               | 16-QAM     | 88.00           | 35.58                 | 123.58            | H   |       | 0.688 | 28.38 |      |        |
|               |                               | 64-QAM     | 86.67           | 35.58                 | 122.25            | H   |       | 0.507 | 27.05 |      |        |
|               |                               | 256-QAM    | 84.66           | 35.58                 | 120.24            | H   |       | 0.319 | 25.04 |      |        |
| 2567.5        |                               | PI/2 BPSK  | 89.37           | 35.58                 | 124.95            | V   | <2.00 | 0.944 | 29.75 | 1    | 1      |
|               |                               | QPSK       | 89.21           | 35.58                 | 124.79            | V   |       | 0.910 | 29.59 |      |        |
|               |                               | 16-QAM     | 88.35           | 35.58                 | 123.93            | V   |       | 0.746 | 28.73 |      |        |
|               |                               | 64-QAM     | 86.93           | 35.58                 | 122.51            | V   |       | 0.538 | 27.31 |      |        |
|               |                               | 256-QAM    | 84.95           | 35.58                 | 120.53            | H   |       | 0.341 | 25.33 |      |        |

| Freq<br>(MHz) | Bandwidth                      | Modulation | Measured        | A.F+C.L+D.F<br>(dB/m) | Total<br>(dBμV/m) | Pol | Limit | EIRP  |       | RB   |        |
|---------------|--------------------------------|------------|-----------------|-----------------------|-------------------|-----|-------|-------|-------|------|--------|
|               |                                |            | Level<br>(dBμV) |                       |                   |     | W     | W     | dBm   | Size | Offset |
| 2505.0        | Sub6 n7/<br>10 MHz<br>[15 kHz] | PI/2 BPSK  | 88.76           | 35.84                 | 124.60            | H   | <2.00 | 0.871 | 29.40 | 1    | 50     |
|               |                                | QPSK       | 88.67           | 35.84                 | 124.51            | H   |       | 0.853 | 29.31 |      |        |
|               |                                | 16-QAM     | 87.71           | 35.84                 | 123.55            | H   |       | 0.684 | 28.35 |      |        |
|               |                                | 64-QAM     | 86.30           | 35.84                 | 122.14            | H   |       | 0.495 | 26.94 |      |        |
|               |                                | 256-QAM    | 84.50           | 35.84                 | 120.34            | H   |       | 0.327 | 25.14 |      |        |
| 2535.0        |                                | PI/2 BPSK  | 89.16           | 35.58                 | 124.74            | H   |       | 0.899 | 29.54 | 1    | 26     |
|               |                                | QPSK       | 89.12           | 35.58                 | 124.70            | H   |       | 0.891 | 29.50 |      |        |
|               |                                | 16-QAM     | 88.15           | 35.58                 | 123.73            | H   |       | 0.713 | 28.53 |      |        |
|               |                                | 64-QAM     | 86.82           | 35.58                 | 122.40            | H   |       | 0.525 | 27.20 |      |        |
|               |                                | 256-QAM    | 84.91           | 35.58                 | 120.49            | H   |       | 0.338 | 25.29 |      |        |
| 2565.0        |                                | PI/2 BPSK  | 89.61           | 35.62                 | 125.23            | V   |       | 1.007 | 30.03 | 1    | 26     |
|               |                                | QPSK       | 89.46           | 35.62                 | 125.08            | V   |       | 0.973 | 29.88 |      |        |
|               |                                | 16-QAM     | 88.59           | 35.62                 | 124.21            | V   |       | 0.796 | 29.01 |      |        |
|               |                                | 64-QAM     | 87.32           | 35.62                 | 122.94            | V   |       | 0.594 | 27.74 |      |        |
|               |                                | 256-QAM    | 85.42           | 35.62                 | 121.04            | H   |       | 0.384 | 25.84 |      |        |

| Freq<br>(MHz) | Bandwidth                      | Modulation | Measured        | A.F+C.L+D.F<br>(dB/m) | Total<br>(dBμV/m) | Pol | Limit | EIRP  |       | RB   |        |
|---------------|--------------------------------|------------|-----------------|-----------------------|-------------------|-----|-------|-------|-------|------|--------|
|               |                                |            | Level<br>(dBμV) |                       |                   |     | W     | W     | dBm   | Size | Offset |
| 2507.5        | Sub6 n7/<br>15 MHz<br>[15 kHz] | PI/2 BPSK  | 88.93           | 35.78                 | 124.71            | H   | <2.00 | 0.893 | 29.51 | 1    | 77     |
|               |                                | QPSK       | 88.81           | 35.78                 | 124.59            | H   |       | 0.868 | 29.39 |      |        |
|               |                                | 16-QAM     | 87.90           | 35.78                 | 123.68            | H   |       | 0.704 | 28.48 |      |        |
|               |                                | 64-QAM     | 86.57           | 35.78                 | 122.35            | H   |       | 0.518 | 27.15 |      |        |
|               |                                | 256-QAM    | 84.66           | 35.78                 | 120.44            | H   |       | 0.334 | 25.24 |      |        |
| 2535.0        |                                | PI/2 BPSK  | 89.25           | 35.58                 | 124.83            | H   |       | 0.918 | 29.63 | 1    | 1      |
|               |                                | QPSK       | 89.15           | 35.58                 | 124.73            | H   |       | 0.897 | 29.53 |      |        |
|               |                                | 16-QAM     | 88.28           | 35.58                 | 123.86            | H   |       | 0.734 | 28.66 |      |        |
|               |                                | 64-QAM     | 86.86           | 35.58                 | 122.44            | H   |       | 0.530 | 27.24 |      |        |
|               |                                | 256-QAM    | 84.75           | 35.58                 | 120.33            | H   |       | 0.326 | 25.13 |      |        |
| 2562.5        |                                | PI/2 BPSK  | 89.61           | 35.61                 | 125.22            | V   |       | 1.005 | 30.02 | 1    | 39     |
|               |                                | QPSK       | 89.46           | 35.61                 | 125.07            | V   |       | 0.971 | 29.87 |      |        |
|               |                                | 16-QAM     | 88.62           | 35.61                 | 124.23            | V   |       | 0.800 | 29.03 |      |        |
|               |                                | 64-QAM     | 87.26           | 35.61                 | 122.87            | V   |       | 0.585 | 27.67 |      |        |
|               |                                | 256-QAM    | 85.30           | 35.61                 | 120.91            | H   |       | 0.372 | 25.71 |      |        |

| Freq<br>(MHz) | Bandwidth                      | Modulation | Measured        | A.F+C.L+D.F<br>(dB/m) | Total<br>(dBμV/m) | Pol   | Limit | EIRP  |       | RB   |        |
|---------------|--------------------------------|------------|-----------------|-----------------------|-------------------|-------|-------|-------|-------|------|--------|
|               |                                |            | Level<br>(dBμV) |                       |                   |       | W     | W     | dBm   | Size | Offset |
| 2510.0        | Sub6 n7/<br>20 MHz<br>[15 kHz] | PI/2 BPSK  | 89.05           | 35.71                 | 124.76            | H     | <2.00 | 0.904 | 29.56 | 1    | 104    |
|               |                                | QPSK       | 89.03           | 35.71                 | 124.74            | H     |       | 0.900 | 29.54 |      |        |
|               |                                | 16-QAM     | 88.08           | 35.71                 | 123.79            | H     |       | 0.723 | 28.59 |      |        |
|               |                                | 64-QAM     | 86.79           | 35.71                 | 122.50            | H     |       | 0.537 | 27.30 |      |        |
|               |                                | 256-QAM    | 84.91           | 35.71                 | 120.62            | H     |       | 0.348 | 25.42 |      |        |
| PI/2 BPSK     |                                | 89.14      | 35.58           | 124.72                | H                 | 0.895 |       | 29.52 | 1     | 53   |        |
| QPSK          |                                | 89.13      | 35.58           | 124.71                | H                 | 0.893 |       | 29.51 |       |      |        |
| 16-QAM        |                                | 88.08      | 35.58           | 123.66                | H                 | 0.701 |       | 28.46 |       |      |        |
| 64-QAM        |                                | 86.79      | 35.58           | 122.37                | H                 | 0.521 |       | 27.17 |       |      |        |
| 256-QAM       |                                | 84.66      | 35.58           | 120.24                | H                 | 0.319 |       | 25.04 |       |      |        |
| 2560.0        |                                | PI/2 BPSK  | 89.51           | 35.58                 | 125.09            | V     |       | 0.975 | 29.89 | 1    | 104    |
|               |                                | QPSK       | 89.41           | 35.58                 | 124.99            | V     |       | 0.953 | 29.79 |      |        |
|               |                                | 16-QAM     | 88.52           | 35.58                 | 124.10            | V     |       | 0.776 | 28.90 |      |        |
|               |                                | 64-QAM     | 87.30           | 35.58                 | 122.88            | V     |       | 0.586 | 27.68 |      |        |
|               |                                | 256-QAM    | 85.25           | 35.58                 | 120.83            | H     |       | 0.366 | 25.63 |      |        |

## 8.3 RADIATED SPURIOUS EMISSIONS

### 8.3.1 External Antenna

|             |                  |
|-------------|------------------|
| NR Band:    | <u>N7</u>        |
| Bandwidth:  | <u>5 MHz</u>     |
| Modulation: | <u>PI/2 BPSK</u> |
| Distance:   | <u>3 meters</u>  |
| SCS:        | <u>15 kHz</u>    |

| Ch                  | Freq<br>(MHz) | Measured<br>Level<br>(dBμV) | A.F+C.L+D.F+H.P.F<br>-A.G<br>(dB/m) | Total<br>(dBμV/m) | Pol. | Result<br>(dBm) | Limit<br>(dBm) | RB   |        |
|---------------------|---------------|-----------------------------|-------------------------------------|-------------------|------|-----------------|----------------|------|--------|
|                     |               |                             |                                     |                   |      |                 |                | Size | Offset |
| 500500<br>(2502.5)  | 5 005.00      | 59.07                       | -8.71                               | 50.36             | V    | -44.84          | -25.00         | 1    | 1      |
|                     | 7 507.50      | 57.91                       | -1.78                               | 56.13             | V    | -39.07          | -25.00         |      |        |
|                     | 10 010.00     | 48.68                       | 2.89                                | 51.57             | V    | -43.63          | -25.00         |      |        |
|                     | 12 512.50     | 47.34                       | 3.25                                | 50.59             | V    | -44.61          | -25.00         |      |        |
|                     | 15 015.00     | 49.27                       | 6.35                                | 55.62             | V    | -39.58          | -25.00         |      |        |
| 507000<br>(2535.0)  | 5 070.00      | 63.78                       | -8.53                               | 55.25             | V    | -39.95          | -25.00         | 1    | 23     |
|                     | 7 605.00      | 55.73                       | -2.08                               | 53.65             | V    | -41.55          | -25.00         |      |        |
|                     | 10 140.00     | 49.58                       | 2.71                                | 52.29             | V    | -42.91          | -25.00         |      |        |
|                     | 12 675.00     | 46.98                       | 3.78                                | 50.76             | V    | -44.44          | -25.00         |      |        |
|                     | 15 210.00     | 48.42                       | 5.27                                | 53.69             | V    | -41.51          | -25.00         |      |        |
| 2513500<br>(2567.5) | 5 135.00      | 66.07                       | -8.22                               | 57.85             | V    | -37.35          | -25.00         | 1    | 1      |
|                     | 7 702.50      | 54.36                       | -2.12                               | 52.24             | V    | -42.96          | -25.00         |      |        |
|                     | 10 270.00     | 48.93                       | 3.20                                | 52.13             | V    | -43.07          | -25.00         |      |        |
|                     | 12 837.50     | 47.04                       | 4.29                                | 51.33             | V    | -43.88          | -25.00         |      |        |
|                     | 15 405.00     | 48.27                       | 4.25                                | 52.52             | V    | -42.68          | -25.00         |      |        |

☐ NR Band: N7  
☐ Bandwidth: 10 MHz  
☐ Modulation: PI/2 BPSK  
☐ Distance: 3 meters  
☐ SCS: 15 kHz

| Ch                 | Freq<br>(MHz) | Measured<br>Level<br>(dBμV) | A.F+C.L+D.F+H.P.F<br>-A.G<br>(dB/m) | Total<br>(dBμV/m) | Pol. | Result<br>(dBm) | Limit<br>(dBm) | RB   |        |
|--------------------|---------------|-----------------------------|-------------------------------------|-------------------|------|-----------------|----------------|------|--------|
|                    |               |                             |                                     |                   |      |                 |                | Size | Offset |
| 501000<br>(2505.0) | 5 010.00      | 59.54                       | -8.58                               | 50.96             | V    | -44.24          | -25.00         | 1    | 1      |
|                    | 7 515.00      | 54.63                       | -1.78                               | 52.85             | V    | -42.35          | -25.00         |      |        |
|                    | 10 020.00     | 49.73                       | 2.78                                | 52.51             | V    | -42.69          | -25.00         |      |        |
|                    | 12 525.00     | 48.56                       | 3.35                                | 51.91             | V    | -43.29          | -25.00         |      |        |
|                    | 15 030.00     | 49.19                       | 5.83                                | 55.02             | V    | -40.18          | -25.00         |      |        |
| 507000<br>(2535.0) | 5 070.00      | 66.74                       | -8.53                               | 58.21             | V    | -36.99          | -25.00         | 1    | 50     |
|                    | 7 605.00      | 55.74                       | -2.08                               | 53.66             | V    | -41.54          | -25.00         |      |        |
|                    | 10 140.00     | 49.78                       | 2.71                                | 52.49             | V    | -42.71          | -25.00         |      |        |
|                    | 12 675.00     | 48.64                       | 3.78                                | 52.42             | V    | -42.78          | -25.00         |      |        |
|                    | 15 210.00     | 48.41                       | 5.27                                | 53.68             | V    | -41.52          | -25.00         |      |        |
| 513000<br>(2565.0) | 5 130.00      | 69.20                       | -8.24                               | 60.96             | V    | -34.24          | -25.00         | 1    | 1      |
|                    | 7 695.00      | 55.82                       | -1.97                               | 53.85             | V    | -41.35          | -25.00         |      |        |
|                    | 10 260.00     | 48.89                       | 3.26                                | 52.15             | V    | -43.05          | -25.00         |      |        |
|                    | 12 825.00     | 49.19                       | 3.71                                | 52.90             | V    | -42.30          | -25.00         |      |        |
|                    | 15 390.00     | 49.47                       | 4.16                                | 53.63             | V    | -41.57          | -25.00         |      |        |

☐ NR Band: N7  
☐ Bandwidth: 15 MHz  
☐ Modulation: PI/2 BPSK  
☐ Distance: 3 meters  
☐ SCS: 15 kHz

| Ch                 | Freq<br>(MHz) | Measured<br>Level<br>(dBμV) | A.F+C.L+D.F+H.P.F<br>-A.G<br>(dB/m) | Total<br>(dBμV/m) | Pol. | Result<br>(dBm) | Limit<br>(dBm) | RB   |        |
|--------------------|---------------|-----------------------------|-------------------------------------|-------------------|------|-----------------|----------------|------|--------|
|                    |               |                             |                                     |                   |      |                 |                | Size | Offset |
| 501500<br>(2507.5) | 5 015.00      | 59.58                       | -8.44                               | 51.14             | V    | -44.06          | -25.00         | 1    | 1      |
|                    | 7 522.50      | 54.24                       | -1.77                               | 52.47             | V    | -42.73          | -25.00         |      |        |
|                    | 10 030.00     | 48.92                       | 2.87                                | 51.79             | V    | -43.42          | -25.00         |      |        |
|                    | 12 537.50     | 48.95                       | 3.22                                | 52.17             | V    | -43.03          | -25.00         |      |        |
|                    | 15 045.00     | 49.40                       | 6.26                                | 55.66             | V    | -39.54          | -25.00         |      |        |
| 507000<br>(2535.0) | 5 070.00      | 65.99                       | -8.53                               | 57.46             | V    | -37.74          | -25.00         | 1    | 77     |
|                    | 7 605.00      | 55.37                       | -2.08                               | 53.29             | V    | -41.91          | -25.00         |      |        |
|                    | 10 140.00     | 49.97                       | 2.71                                | 52.68             | V    | -42.52          | -25.00         |      |        |
|                    | 12 675.00     | 48.49                       | 3.78                                | 52.27             | V    | -42.93          | -25.00         |      |        |
|                    | 15 210.00     | 48.85                       | 5.27                                | 54.12             | V    | -41.08          | -25.00         |      |        |
| 212500<br>(2562.5) | 5 125.00      | 69.43                       | -8.22                               | 61.21             | V    | -33.99          | -25.00         | 1    | 1      |
|                    | 7 687.50      | 54.72                       | -2.20                               | 52.52             | V    | -42.68          | -25.00         |      |        |
|                    | 10 250.00     | 49.60                       | 2.86                                | 52.46             | V    | -42.74          | -25.00         |      |        |
|                    | 12 812.50     | 48.74                       | 3.71                                | 52.45             | V    | -42.75          | -25.00         |      |        |
|                    | 15 375.00     | 48.78                       | 4.33                                | 53.11             | V    | -42.09          | -25.00         |      |        |

☐ NR Band: N7  
☐ Bandwidth: 20 MHz  
☐ Modulation: PI/2 BPSK  
☐ Distance: 3 meters  
☐ SCS: 15 kHz

| Ch                 | Freq<br>(MHz) | Measured<br>Level<br>(dBμV) | A.F+C.L+D.F+H.P.F<br>-A.G<br>(dB/m) | Total<br>(dBμV/m) | Pol. | Result<br>(dBm) | Limit<br>(dBm) | RB   |        |
|--------------------|---------------|-----------------------------|-------------------------------------|-------------------|------|-----------------|----------------|------|--------|
|                    |               |                             |                                     |                   |      |                 |                | Size | Offset |
| 502000<br>(2510.0) | 5 020.00      | 64.27                       | -8.54                               | 55.73             | V    | -39.47          | -25.00         | 1    | 104    |
|                    | 7 530.00      | 53.51                       | -1.65                               | 51.86             | V    | -43.34          | -25.00         |      |        |
|                    | 10 040.00     | 49.44                       | 2.44                                | 51.89             | V    | -43.32          | -25.00         |      |        |
|                    | 12 550.00     | 48.21                       | 2.94                                | 51.15             | V    | -44.05          | -25.00         |      |        |
|                    | 15 060.00     | 49.72                       | 5.86                                | 55.58             | V    | -39.62          | -25.00         |      |        |
| 507000<br>(2535.0) | 5 070.00      | 64.55                       | -8.53                               | 56.02             | V    | -39.18          | -25.00         | 1    | 53     |
|                    | 7 605.00      | 54.80                       | -2.08                               | 52.72             | V    | -42.48          | -25.00         |      |        |
|                    | 10 140.00     | 49.87                       | 2.71                                | 52.58             | V    | -42.62          | -25.00         |      |        |
|                    | 12 675.00     | 48.16                       | 3.78                                | 51.94             | V    | -43.26          | -25.00         |      |        |
|                    | 15 210.00     | 48.94                       | 5.27                                | 54.21             | V    | -40.99          | -25.00         |      |        |
| 512000<br>(2560.0) | 5 120.00      | 66.95                       | -8.34                               | 58.61             | V    | -36.59          | -25.00         | 1    | 1      |
|                    | 7 680.00      | 54.85                       | -2.24                               | 52.62             | V    | -42.59          | -25.00         |      |        |
|                    | 10 240.00     | 49.51                       | 2.74                                | 52.25             | V    | -42.95          | -25.00         |      |        |
|                    | 12 800.00     | 48.54                       | 3.87                                | 52.41             | V    | -42.79          | -25.00         |      |        |
|                    | 15 360.00     | 49.59                       | 4.36                                | 53.95             | V    | -41.25          | -25.00         |      |        |



### 8.3.2 Internal Antenna

|             |                  |
|-------------|------------------|
| NR Band:    | <u>N7</u>        |
| Bandwidth:  | <u>5 MHz</u>     |
| Modulation: | <u>PI/2 BPSK</u> |
| Distance:   | <u>3 meters</u>  |
| SCS:        | <u>15 kHz</u>    |

| Ch                  | Freq<br>(MHz) | Measured<br>Level<br>(dBμV) | A.F+C.L+D.F+H.P.F<br>-A.G<br>(dB/m) | Total<br>(dBμV/m) | Pol. | Result<br>(dBm) | Limit<br>(dBm) | RB   |        |
|---------------------|---------------|-----------------------------|-------------------------------------|-------------------|------|-----------------|----------------|------|--------|
|                     |               |                             |                                     |                   |      |                 |                | Size | Offset |
| 500500<br>(2502.5)  | 5 005.00      | 60.71                       | -8.71                               | 52.00             | V    | -43.20          | -25.00         | 1    | 1      |
|                     | 7 507.50      | 52.77                       | -1.78                               | 50.99             | H    | -44.21          | -25.00         |      |        |
|                     | 10 010.00     | 43.96                       | 2.89                                | 46.85             | V    | -48.35          | -25.00         |      |        |
|                     | 12 512.50     | 44.55                       | 3.25                                | 47.80             | V    | -47.40          | -25.00         |      |        |
|                     | 15 015.00     | 43.18                       | 6.35                                | 49.53             | V    | -45.67          | -25.00         |      |        |
| 507000<br>(2535.0)  | 5 070.00      | 62.20                       | -8.53                               | 53.67             | H    | -41.53          | -25.00         | 1    | 12     |
|                     | 7 605.00      | 51.67                       | -2.08                               | 49.59             | V    | -45.61          | -25.00         |      |        |
|                     | 10 140.00     | 45.55                       | 2.71                                | 48.26             | V    | -46.94          | -25.00         |      |        |
|                     | 12 675.00     | 42.31                       | 3.78                                | 46.09             | V    | -49.11          | -25.00         |      |        |
|                     | 15 210.00     | 42.09                       | 5.27                                | 47.36             | V    | -47.84          | -25.00         |      |        |
| 2513500<br>(2567.5) | 5 135.00      | 68.29                       | -8.22                               | 60.07             | H    | -35.13          | -25.00         | 1    | 1      |
|                     | 7 702.50      | 50.80                       | -2.12                               | 48.68             | V    | -46.52          | -25.00         |      |        |
|                     | 10 270.00     | 44.92                       | 3.20                                | 48.12             | H    | -47.08          | -25.00         |      |        |
|                     | 12 837.50     | 46.77                       | 4.29                                | 51.06             | V    | -44.15          | -25.00         |      |        |
|                     | 15 405.00     | 44.74                       | 4.25                                | 48.99             | H    | -46.21          | -25.00         |      |        |

☐ NR Band: N7  
☐ Bandwidth: 10 MHz  
☐ Modulation: PI/2 BPSK  
☐ Distance: 3 meters  
☐ SCS: 15 kHz

| Ch                 | Freq<br>(MHz) | Measured<br>Level<br>(dBμV) | A.F+C.L+D.F+H.P.F<br>-A.G<br>(dB/m) | Total<br>(dBμV/m) | Pol. | Result<br>(dBm) | Limit<br>(dBm) | RB   |        |
|--------------------|---------------|-----------------------------|-------------------------------------|-------------------|------|-----------------|----------------|------|--------|
|                    |               |                             |                                     |                   |      |                 |                | Size | Offset |
| 501000<br>(2505.0) | 5 010.00      | 60.56                       | -8.58                               | 51.98             | H    | -43.22          | -25.00         | 1    | 50     |
|                    | 7 515.00      | 50.79                       | -1.78                               | 49.01             | V    | -46.19          | -25.00         |      |        |
|                    | 10 020.00     | 45.13                       | 2.78                                | 47.91             | H    | -47.29          | -25.00         |      |        |
|                    | 12 525.00     | 45.87                       | 3.35                                | 49.22             | H    | -45.98          | -25.00         |      |        |
|                    | 15 030.00     | 43.87                       | 5.83                                | 49.70             | H    | -45.50          | -25.00         |      |        |
| 507000<br>(2535.0) | 5 070.00      | 63.28                       | -8.53                               | 54.75             | H    | -40.45          | -25.00         | 1    | 26     |
|                    | 7 605.00      | 52.50                       | -2.08                               | 50.42             | H    | -44.78          | -25.00         |      |        |
|                    | 10 140.00     | 45.21                       | 2.71                                | 47.92             | H    | -47.28          | -25.00         |      |        |
|                    | 12 675.00     | 44.26                       | 3.78                                | 48.04             | H    | -47.16          | -25.00         |      |        |
|                    | 15 210.00     | 42.21                       | 5.27                                | 47.48             | H    | -47.72          | -25.00         |      |        |
| 513000<br>(2565.0) | 5 130.00      | 67.80                       | -8.24                               | 59.56             | V    | -35.64          | -25.00         | 1    | 26     |
|                    | 7 695.00      | 51.23                       | -1.97                               | 49.26             | H    | -45.94          | -25.00         |      |        |
|                    | 10 260.00     | 46.22                       | 3.26                                | 49.48             | H    | -45.72          | -25.00         |      |        |
|                    | 12 825.00     | 43.88                       | 3.71                                | 47.59             | H    | -47.61          | -25.00         |      |        |
|                    | 15 390.00     | 46.25                       | 4.16                                | 50.41             | H    | -44.79          | -25.00         |      |        |

☐ NR Band: N7  
☐ Bandwidth: 15 MHz  
☐ Modulation: PI/2 BPSK  
☐ Distance: 3 meters  
☐ SCS: 15 kHz

| Ch                 | Freq<br>(MHz) | Measured<br>Level<br>(dBμV) | A.F+C.L+D.F+H.P.F<br>-A.G<br>(dB/m) | Total<br>(dBμV/m) | Pol. | Result<br>(dBm) | Limit<br>(dBm) | RB   |        |
|--------------------|---------------|-----------------------------|-------------------------------------|-------------------|------|-----------------|----------------|------|--------|
|                    |               |                             |                                     |                   |      |                 |                | Size | Offset |
| 501500<br>(2507.5) | 5 015.00      | 59.58                       | -8.44                               | 51.14             | H    | -44.06          | -25.00         | 1    | 77     |
|                    | 7 522.50      | 51.23                       | -1.77                               | 49.46             | H    | -45.74          | -25.00         |      |        |
|                    | 10 030.00     | 45.71                       | 2.87                                | 48.58             | H    | -46.63          | -25.00         |      |        |
|                    | 12 537.50     | 44.83                       | 3.22                                | 48.05             | H    | -47.15          | -25.00         |      |        |
|                    | 15 045.00     | 44.81                       | 6.26                                | 51.07             | H    | -44.13          | -25.00         |      |        |
| 507000<br>(2535.0) | 5 070.00      | 59.90                       | -8.53                               | 51.37             | H    | -43.83          | -25.00         | 1    | 1      |
|                    | 7 605.00      | 52.72                       | -2.08                               | 50.64             | H    | -44.56          | -25.00         |      |        |
|                    | 10 140.00     | 46.22                       | 2.71                                | 48.93             | H    | -46.27          | -25.00         |      |        |
|                    | 12 675.00     | 44.50                       | 3.78                                | 48.28             | H    | -46.92          | -25.00         |      |        |
|                    | 15 210.00     | 43.54                       | 5.27                                | 48.81             | H    | -46.39          | -25.00         |      |        |
| 212500<br>(2562.5) | 5 125.00      | 65.34                       | -8.22                               | 57.12             | H    | -38.08          | -25.00         | 1    | 39     |
|                    | 7 687.50      | 51.64                       | -2.20                               | 49.44             | H    | -45.76          | -25.00         |      |        |
|                    | 10 250.00     | 44.81                       | 2.86                                | 47.67             | H    | -47.53          | -25.00         |      |        |
|                    | 12 812.50     | 44.61                       | 3.71                                | 48.32             | H    | -46.88          | -25.00         |      |        |
|                    | 15 375.00     | 45.27                       | 4.33                                | 49.60             | H    | -45.60          | -25.00         |      |        |

☐ NR Band: N7  
☐ Bandwidth: 20 MHz  
☐ Modulation: PI/2 BPSK  
☐ Distance: 3 meters  
☐ SCS: 15 kHz

| Ch                 | Freq<br>(MHz) | Measured<br>Level<br>(dBμV) | A.F+C.L+D.F+H.P.F<br>-A.G<br>(dB/m) | Total<br>(dBμV/m) | Pol. | Result<br>(dBm) | Limit<br>(dBm) | RB   |        |
|--------------------|---------------|-----------------------------|-------------------------------------|-------------------|------|-----------------|----------------|------|--------|
|                    |               |                             |                                     |                   |      |                 |                | Size | Offset |
| 502000<br>(2510.0) | 5 020.00      | 56.14                       | -8.54                               | 47.60             | H    | -47.60          | -25.00         | 1    | 104    |
|                    | 7 530.00      | 50.62                       | -1.65                               | 48.97             | H    | -46.23          | -25.00         |      |        |
|                    | 10 040.00     | 47.03                       | 2.44                                | 49.48             | H    | -45.73          | -25.00         |      |        |
|                    | 12 550.00     | 44.38                       | 2.94                                | 47.32             | H    | -47.88          | -25.00         |      |        |
|                    | 15 060.00     | 46.87                       | 5.86                                | 52.73             | H    | -42.47          | -25.00         |      |        |
| 507000<br>(2535.0) | 5 070.00      | 62.16                       | -8.53                               | 53.63             | H    | -41.57          | -25.00         | 1    | 53     |
|                    | 7 605.00      | 52.33                       | -2.08                               | 50.25             | H    | -44.95          | -25.00         |      |        |
|                    | 10 140.00     | 44.90                       | 2.71                                | 47.61             | H    | -47.59          | -25.00         |      |        |
|                    | 12 675.00     | 44.11                       | 3.78                                | 47.89             | H    | -47.31          | -25.00         |      |        |
|                    | 15 210.00     | 43.73                       | 5.27                                | 49.00             | H    | -46.20          | -25.00         |      |        |
| 512000<br>(2560.0) | 5 120.00      | 68.98                       | -8.34                               | 60.64             | H    | -34.56          | -25.00         | 1    | 104    |
|                    | 7 680.00      | 50.60                       | -2.24                               | 48.37             | H    | -46.84          | -25.00         |      |        |
|                    | 10 240.00     | 44.37                       | 2.74                                | 47.11             | H    | -48.09          | -25.00         |      |        |
|                    | 12 800.00     | 44.52                       | 3.87                                | 48.39             | H    | -46.81          | -25.00         |      |        |
|                    | 15 360.00     | 45.30                       | 4.36                                | 49.66             | H    | -45.54          | -25.00         |      |        |

#### 8.4 PEAK-TO-AVERAGE RATIO

| Band    | Band Width | Frequenc<br>y<br>(MHz) | Modulatio<br>n | Resource<br>Block Size | Resource<br>Block<br>Offset | Data (dB ) |
|---------|------------|------------------------|----------------|------------------------|-----------------------------|------------|
| Sub6 n7 | 5 MHz      | 2535.0                 | BPSK           | 25                     | 0                           | 4.01       |
|         |            |                        | QPSK           |                        |                             | 4.55       |
|         |            |                        | 16-QAM         |                        |                             | 5.65       |
|         |            |                        | 64-QAM         |                        |                             | 6.14       |
|         |            |                        | 256-QAM        |                        |                             | 6.55       |
|         | 10 MHz     |                        | BPSK           | 50                     |                             | 4.17       |
|         |            |                        | QPSK           |                        |                             | 4.70       |
|         |            |                        | 16-QAM         |                        |                             | 5.64       |
|         |            |                        | 64-QAM         |                        |                             | 5.99       |
|         |            |                        | 256-QAM        |                        |                             | 6.85       |
|         | 15 MHz     |                        | BPSK           | 75                     |                             | 4.20       |
|         |            |                        | QPSK           |                        |                             | 4.84       |
|         |            |                        | 16-QAM         |                        |                             | 5.77       |
|         |            |                        | 64-QAM         |                        |                             | 6.17       |
|         |            |                        | 256-QAM        |                        |                             | 6.81       |
|         | 20 MHz     |                        | BPSK           | 100                    |                             | 4.10       |
|         |            |                        | QPSK           |                        |                             | 4.71       |
|         |            |                        | 16-QAM         |                        |                             | 5.57       |
|         |            |                        | 64-QAM         |                        |                             | 6.10       |
|         |            |                        | 256-QAM        |                        |                             | 6.82       |

#### Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 74 ~ 93.

## 8.5 OCCUPIED BANDWIDTH

| Band    | Band Width | Frequenc<br>y<br>(MHz) | Modulatio<br>n | Resource<br>Block Size | Resource<br>Block<br>Offset | Data ( MHz ) |
|---------|------------|------------------------|----------------|------------------------|-----------------------------|--------------|
| Sub6 n7 | 5 MHz      | 2535.0                 | BPSK           | 25                     | 0                           | 4.4870       |
|         |            |                        | QPSK           |                        |                             | 4.5069       |
|         |            |                        | 16-QAM         |                        |                             | 4.5002       |
|         |            |                        | 64-QAM         |                        |                             | 4.4821       |
|         |            |                        | 256-QAM        |                        |                             | 4.6597       |
|         | 10 MHz     |                        | BPSK           | 50                     |                             | 8.9914       |
|         |            |                        | QPSK           |                        |                             | 8.9725       |
|         |            |                        | 16-QAM         |                        |                             | 8.9785       |
|         |            |                        | 64-QAM         |                        |                             | 8.9684       |
|         |            |                        | 256-QAM        |                        |                             | 8.9961       |
|         | 15 MHz     |                        | BPSK           | 75                     |                             | 13.479       |
|         |            |                        | QPSK           |                        |                             | 13.416       |
|         |            |                        | 16-QAM         |                        |                             | 13.460       |
|         |            |                        | 64-QAM         |                        |                             | 13.450       |
|         |            |                        | 256-QAM        |                        |                             | 13.470       |
|         | 20 MHz     |                        | BPSK           | 100                    |                             | 17.930       |
|         |            |                        | QPSK           |                        |                             | 17.872       |
|         |            |                        | 16-QAM         |                        |                             | 17.903       |
|         |            |                        | 64-QAM         |                        |                             | 17.900       |
|         |            |                        | 256-QAM        |                        |                             | 17.940       |

### Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 54~ 73.

## 8.6 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                | 2502.5          | 5.0010                              | 30.815      | -80.436                        | -49.621      | -25.00      |
|         |                  | 2535.0          | 9.7243                              | 30.815      | -80.744                        | -49.929      |             |
|         |                  | 2567.5          | 8.3031                              | 30.815      | -80.245                        | -49.430      |             |
|         | 10               | 2505.0          | 9.9342                              | 30.815      | -80.394                        | -49.579      |             |
|         |                  | 2535.0          | 8.2767                              | 30.815      | -80.381                        | -49.566      |             |
|         |                  | 2565.0          | 9.1087                              | 30.815      | -80.756                        | -49.941      |             |
|         | 15               | 2507.5          | 5.0010                              | 30.815      | -80.400                        | -49.585      |             |
|         |                  | 2535.0          | 9.1855                              | 30.815      | -80.421                        | -49.606      |             |
|         |                  | 2562.5          | 9.6720                              | 30.815      | -79.837                        | -49.022      |             |
|         | 20               | 2510.0          | 9.6675                              | 30.815      | -79.699                        | -48.884      |             |
|         |                  | 2535.0          | 9.0872                              | 30.815      | -80.729                        | -49.914      |             |
|         |                  | 2560.0          | 8.8799                              | 30.815      | -80.882                        | -50.067      |             |

### Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 122 ~ 145.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
3. Factor(dB) = Cable Loss + Attenuator + Power Splitter

| Frequency Range (GHz) | Factor [dB] |
|-----------------------|-------------|
| 0.03 – 1              | 27.494      |
| 1 – 5                 | 30.200      |
| 5 – 10                | 30.815      |
| 10 – 15               | 31.340      |
| 15 – 20               | 31.713      |
| Above 20              | 32.355      |

## 8.7 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           | 2502.5             | BPSK | Full RB                 | -21.99                         | -26.93                   | -36.71                           | -28.72                                    | -45.59                  | -33.91                                    | -34.41                    |
| 10          | 2505.0             | BPSK | Full RB                 | -23.59                         | -29.12                   | -25.15                           | -25.06                                    | -37.25                  | -31.16                                    | -34.28                    |
| 15          | 2507.5             | BPSK | Full RB                 | -27.33                         | -34.74                   | -32.43                           | -31.39                                    | -34.89                  | -31.68                                    | -37.91                    |
| 20          | 2510.0             | BPSK | Full RB                 | -27.65                         | -28.34                   | -33.21                           | -28.45                                    | -34.87                  | -34.31                                    | -39.17                    |
| Limit       |                    |      |                         | -10.0                          | -10.0                    | -13.0                            | -10.0                                     | -25.0                   | -13.0                                     | -25.0                     |

| BW<br>(MHz) | Frequency<br>(MHz) | Mod  | RB<br>(Size/ Offset) | C.E ~ (C.E ± 1 MHz) |        | (C.E ± 1 MHz)<br>~<br>(C.E ± 5 MHz) |        |
|-------------|--------------------|------|----------------------|---------------------|--------|-------------------------------------|--------|
|             |                    |      |                      | Lower               | Upper  | Lower                               | Upper  |
| 5           | 2535.0             | BPSK | Full RB              | -26.80              | -27.01 | -30.79                              | -29.70 |
|             | 2567.5             | BPSK | Full RB              | -21.96              | -27.44 | -30.33                              | -29.08 |
| 10          | 2535.0             | BPSK | Full RB              | -26.52              | -36.05 | -27.65                              | -31.18 |
|             | 2565.0             | BPSK | Full RB              | -26.04              | -33.58 | -29.46                              | -28.64 |
| 15          | 2535.0             | BPSK | Full RB              | -27.94              | -32.96 | -30.11                              | -29.25 |
|             | 2562.5             | BPSK | Full RB              | -26.95              | -32.97 | -28.85                              | -29.07 |
| 20          | 2535.0             | BPSK | Full RB              | -27.94              | -32.44 | -30.15                              | -28.93 |
|             | 2560.0             | BPSK | Full RB              | -28.82              | -32.76 | -30.63                              | -30.81 |
| Limit       |                    |      |                      | -10.0               |        | -10.0                               |        |

| BW<br>(MHz) | Frequency<br>(MHz) | Mod  | RB<br>(Size/ Offset) | (C.E ± 5 MHz)<br>~<br>(C.E ± X MHz) |        | Above<br>(C.E ± X MHz) |        |
|-------------|--------------------|------|----------------------|-------------------------------------|--------|------------------------|--------|
|             |                    |      |                      | Lower                               | Upper  | Lower                  | Upper  |
| 5           | 2535.0             | BPSK | Full RB              | -39.19                              | -37.83 | -39.40                 | -38.57 |
|             | 2567.5             | BPSK | Full RB              | -36.43                              | -36.93 | -37.18                 | -37.50 |
| 10          | 2535.0             | BPSK | Full RB              | -32.23                              | -35.50 | -41.82                 | -37.39 |
|             | 2565.0             | BPSK | Full RB              | -35.23                              | -37.75 | -38.36                 | -39.04 |
| 15          | 2535.0             | BPSK | Full RB              | -29.83                              | -31.90 | -39.87                 | -36.33 |
|             | 2562.5             | BPSK | Full RB              | -32.77                              | -28.93 | -38.45                 | -41.02 |
| 20          | 2535.0             | BPSK | Full RB              | -28.09                              | -32.51 | -43.20                 | -36.61 |
|             | 2560.0             | BPSK | Full RB              | -32.33                              | -30.92 | -37.60                 | -46.07 |
| Limit       |                    |      |                      | -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. Duty Cycle factor already applied on the factor.
  - Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter
  - Result(dBm) = Reading + Factor
4. Plots of the EUT's Channel Edge are shown Page 94 ~ 121.



## 8.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ☐ BandWidth: 5 MHz  
☐ Voltage(100 %): 13.500 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 499 998 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %   | -30      | 2502 500 005 | 7.1        | 0.000 000 | 0.003  |
|                    | 100 %   | -20      | 2502 500 009 | 11.1       | 0.000 000 | 0.004  |
|                    | 100 %   | -10      | 2502 500 008 | 9.5        | 0.000 000 | 0.004  |
|                    | 100 %   | 0        | 2502 500 007 | 8.8        | 0.000 000 | 0.004  |
|                    | 100 %   | +10      | 2502 500 004 | 6.3        | 0.000 000 | 0.003  |
|                    | 100 %   | +30      | 2502 500 011 | 13.2       | 0.000 001 | 0.005  |
|                    | 100 %   | +40      | 2502 500 013 | 15.1       | 0.000 001 | 0.006  |
|                    | 100 %   | +50      | 2502 499 989 | -8.8       | 0.000 000 | -0.004 |
|                    | 85 %    | +20      | 2502 500 006 | 7.8        | 0.000 000 | 0.003  |
|                    | 115 %   | +20      | 2502 500 006 | 8.1        | 0.000 000 | 0.003  |
|                    |         |          |              |            |           |        |
| 2567.500           | 100 %   | +20(Ref) | 2567 499 995 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %   | -30      | 2567 499 999 | 3.9        | 0.000 000 | 0.002  |
|                    | 100 %   | -20      | 2567 500 004 | 9.2        | 0.000 000 | 0.004  |
|                    | 100 %   | -10      | 2567 500 001 | 5.5        | 0.000 000 | 0.002  |
|                    | 100 %   | 0        | 2567 500 008 | 13.1       | 0.000 001 | 0.005  |
|                    | 100 %   | +10      | 2567 500 004 | 9.4        | 0.000 000 | 0.004  |
|                    | 100 %   | +30      | 2567 500 003 | 8.0        | 0.000 000 | 0.003  |
|                    | 100 %   | +40      | 2567 499 990 | -5.1       | 0.000 000 | -0.002 |
|                    | 100 %   | +50      | 2567 499 991 | -4.5       | 0.000 000 | -0.002 |
|                    | 85 %    | +20      | 2567 499 988 | -6.6       | 0.000 000 | -0.003 |
|                    | 115 %   | +20      | 2567 500 000 | 5.1        | 0.000 000 | 0.002  |
|                    |         |          |              |            |           |        |

☐ BandWidth: 10 MHz  
☐ Voltage(100 %): 13.500 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 000 003 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %   | -30      | 2505 000 005 | 2.1        | 0.000 000 | 0.001  |
|                    | 100 %   | -20      | 2505 000 006 | 2.5        | 0.000 000 | 0.001  |
|                    | 100 %   | -10      | 2505 000 002 | -0.8       | 0.000 000 | 0.000  |
|                    | 100 %   | 0        | 2505 000 003 | 0.1        | 0.000 000 | 0.000  |
|                    | 100 %   | +10      | 2505 000 006 | 2.8        | 0.000 000 | 0.001  |
|                    | 100 %   | +30      | 2505 000 007 | 4.4        | 0.000 000 | 0.002  |
|                    | 100 %   | +40      | 2505 000 005 | 2.3        | 0.000 000 | 0.001  |
|                    | 100 %   | +50      | 2505 000 005 | 1.5        | 0.000 000 | 0.001  |
|                    | 85 %    | +20      | 2505 000 006 | 3.1        | 0.000 000 | 0.001  |
|                    | 115 %   | +20      | 2505 000 004 | 1.1        | 0.000 000 | 0.000  |
| 2565.000           | 100 %   | +20(Ref) | 2564 999 991 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %   | -30      | 2564 999 982 | -8.8       | 0.000 000 | -0.003 |
|                    | 100 %   | -20      | 2564 999 985 | -6.2       | 0.000 000 | -0.002 |
|                    | 100 %   | -10      | 2564 999 985 | -6.2       | 0.000 000 | -0.002 |
|                    | 100 %   | 0        | 2564 999 988 | -3.5       | 0.000 000 | -0.001 |
|                    | 100 %   | +10      | 2564 999 981 | -10.5      | 0.000 000 | -0.004 |
|                    | 100 %   | +30      | 2564 999 980 | -11.1      | 0.000 000 | -0.004 |
|                    | 100 %   | +40      | 2564 999 982 | -9.1       | 0.000 000 | -0.004 |
|                    | 100 %   | +50      | 2564 999 983 | -8.5       | 0.000 000 | -0.003 |
|                    | 85 %    | +20      | 2564 999 984 | -7.4       | 0.000 000 | -0.003 |
|                    | 115 %   | +20      | 2564 999 985 | -6.3       | 0.000 000 | -0.002 |

- ☐ BandWidth: 15 MHz  
☐ Voltage(100 %): 13.500 VDC  
☐ LIMIT: Emission must remain in band

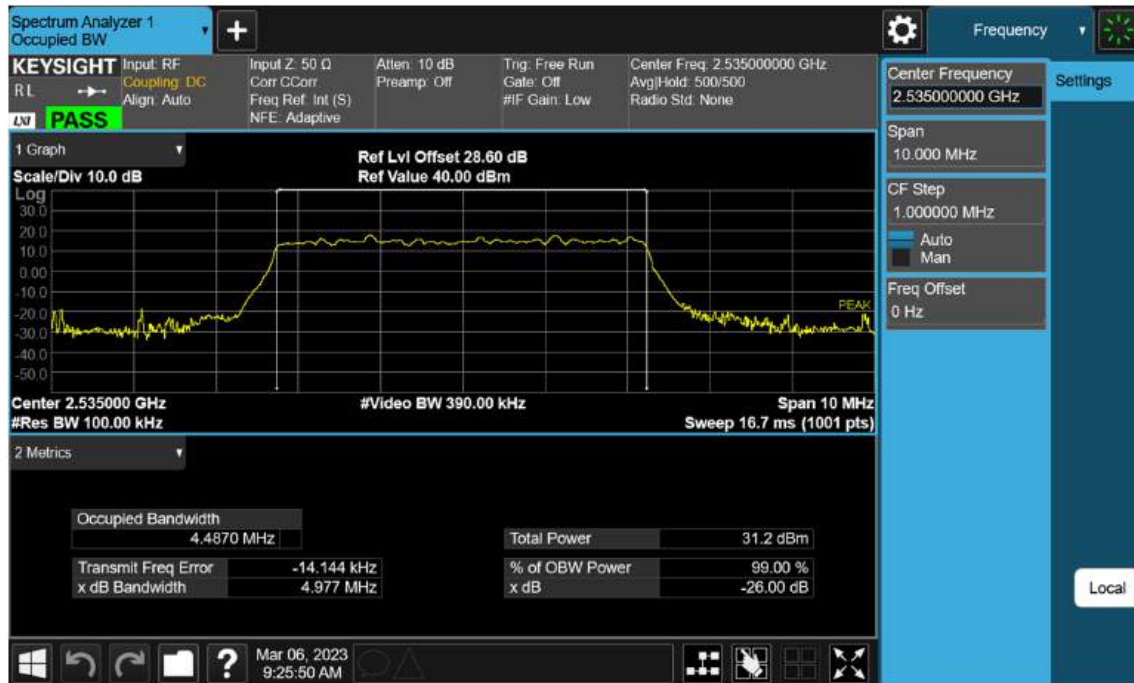
| Test.<br>Frequency | Voltage | Temp.    | Frequency    | Frequency  | Deviation | ppm    |
|--------------------|---------|----------|--------------|------------|-----------|--------|
| (MHz)              | (%)     | (°C)     | (Hz)         | Error (Hz) | (%)       |        |
| 2507.500           | 100 %   | +20(Ref) | 2507 500 001 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %   | -30      | 2507 500 004 | 3.3        | 0.000 000 | 0.001  |
|                    | 100 %   | -20      | 2507 500 003 | 1.9        | 0.000 000 | 0.001  |
|                    | 100 %   | -10      | 2507 500 005 | 4.4        | 0.000 000 | 0.002  |
|                    | 100 %   | 0        | 2507 500 006 | 5.1        | 0.000 000 | 0.002  |
|                    | 100 %   | +10      | 2507 500 000 | -0.8       | 0.000 000 | 0.000  |
|                    | 100 %   | +30      | 2507 500 001 | 0.4        | 0.000 000 | 0.000  |
|                    | 100 %   | +40      | 2507 500 004 | 2.8        | 0.000 000 | 0.001  |
|                    | 100 %   | +50      | 2507 500 004 | 2.9        | 0.000 000 | 0.001  |
|                    | 85 %    | +20      | 2507 500 005 | 4.1        | 0.000 000 | 0.002  |
|                    | 115 %   | +20      | 2507 500 004 | 3.4        | 0.000 000 | 0.001  |
| 2562.500           | 100 %   | +20(Ref) | 2562 499 997 | 0.0        | 0.000 000 | 0.000  |
|                    | 100 %   | -30      | 2562 499 988 | -8.8       | 0.000 000 | -0.003 |
|                    | 100 %   | -20      | 2562 499 990 | -6.7       | 0.000 000 | -0.003 |
|                    | 100 %   | -10      | 2562 499 988 | -9.1       | 0.000 000 | -0.004 |
|                    | 100 %   | 0        | 2562 499 988 | -9.4       | 0.000 000 | -0.004 |
|                    | 100 %   | +10      | 2562 499 990 | -7.1       | 0.000 000 | -0.003 |
|                    | 100 %   | +30      | 2562 499 990 | -6.9       | 0.000 000 | -0.003 |
|                    | 100 %   | +40      | 2562 499 987 | -10.1      | 0.000 000 | -0.004 |
|                    | 100 %   | +50      | 2562 499 986 | -11.5      | 0.000 000 | -0.004 |
|                    | 85 %    | +20      | 2562 499 988 | -8.9       | 0.000 000 | -0.003 |
|                    | 115 %   | +20      | 2562 499 988 | -9.4       | 0.000 000 | -0.004 |

☐ BandWidth: 20 MHz  
☐ Voltage(100 %): 13.500 VDC  
☐ LIMIT: Emission must remain in band

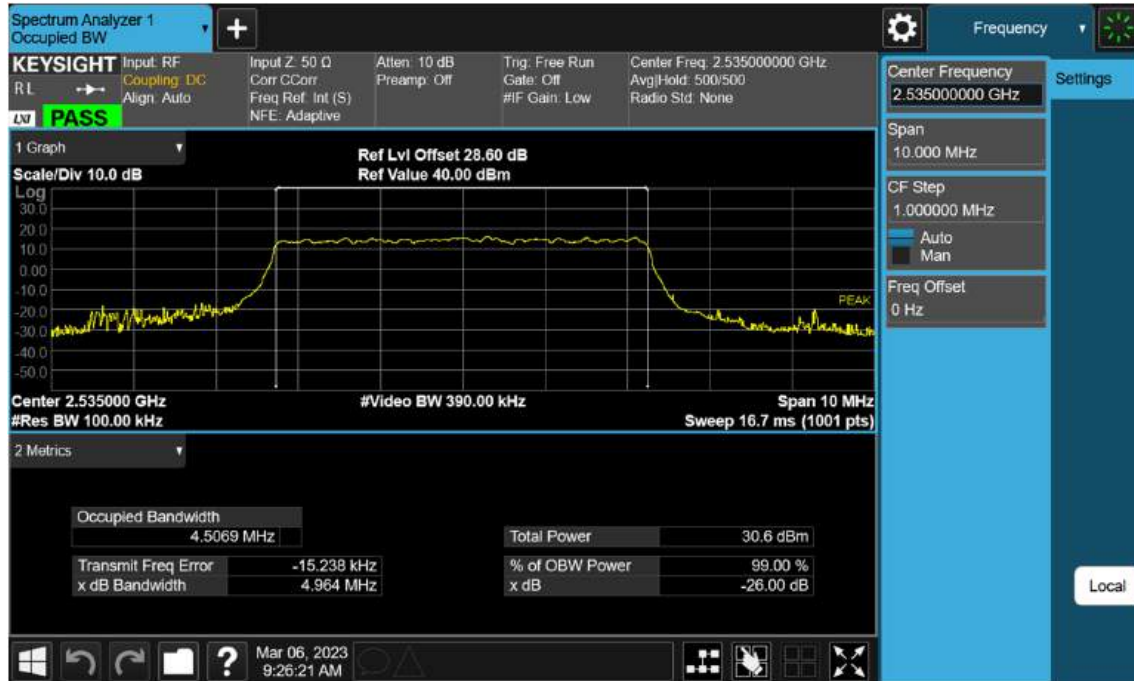
| Test.<br>Frequency | Voltage | Temp.    | Frequency    | Frequency  | Deviation  | ppm    |
|--------------------|---------|----------|--------------|------------|------------|--------|
| (MHz)              | (%)     | (°C)     | (Hz)         | Error (Hz) | (%)        |        |
| 2510.000           | 100 %   | +20(Ref) | 2510 000 007 | 0.0        | 0.000 000  | 0.000  |
|                    | 100 %   | -30      | 2510 000 011 | 4.4        | 0.000 000  | 0.002  |
|                    | 100 %   | -20      | 2510 000 013 | 5.6        | 0.000 000  | 0.002  |
|                    | 100 %   | -10      | 2510 000 014 | 7.1        | 0.000 000  | 0.003  |
|                    | 100 %   | 0        | 2510 000 011 | 4.2        | 0.000 000  | 0.002  |
|                    | 100 %   | +10      | 2510 000 013 | 5.9        | 0.000 000  | 0.002  |
|                    | 100 %   | +30      | 2510 000 013 | 6.3        | 0.000 000  | 0.003  |
|                    | 100 %   | +40      | 2510 000 013 | 6.0        | 0.000 000  | 0.002  |
|                    | 100 %   | +50      | 2510 000 013 | 5.9        | 0.000 000  | 0.002  |
|                    | 85 %    | +20      | 2510 000 011 | 4.4        | 0.000 000  | 0.002  |
|                    | 115 %   | +20      | 2510 000 014 | 6.8        | 0.000 000  | 0.003  |
| 2560.000           | 100 %   | +20(Ref) | 2599 999 987 | 0.0        | 0.000 000  | 0.000  |
|                    | 100 %   | -30      | 2599 999 977 | -10.4      | 0.000 000  | -0.004 |
|                    | 100 %   | -20      | 2599 999 973 | -14.1      | -0.000 001 | -0.005 |
|                    | 100 %   | -10      | 2599 999 974 | -13.5      | -0.000 001 | -0.005 |
|                    | 100 %   | 0        | 2599 999 973 | -14.5      | -0.000 001 | -0.006 |
|                    | 100 %   | +10      | 2599 999 972 | -15.0      | -0.000 001 | -0.006 |
|                    | 100 %   | +30      | 2599 999 973 | -14.3      | -0.000 001 | -0.006 |
|                    | 100 %   | +40      | 2599 999 972 | -15.1      | -0.000 001 | -0.006 |
|                    | 100 %   | +50      | 2599 999 974 | -12.7      | 0.000 000  | -0.005 |
|                    | 85 %    | +20      | 2599 999 978 | -9.5       | 0.000 000  | -0.004 |
|                    | 115 %   | +20      | 2599 999 977 | -9.7       | 0.000 000  | -0.004 |

## 9. TEST PLOTS

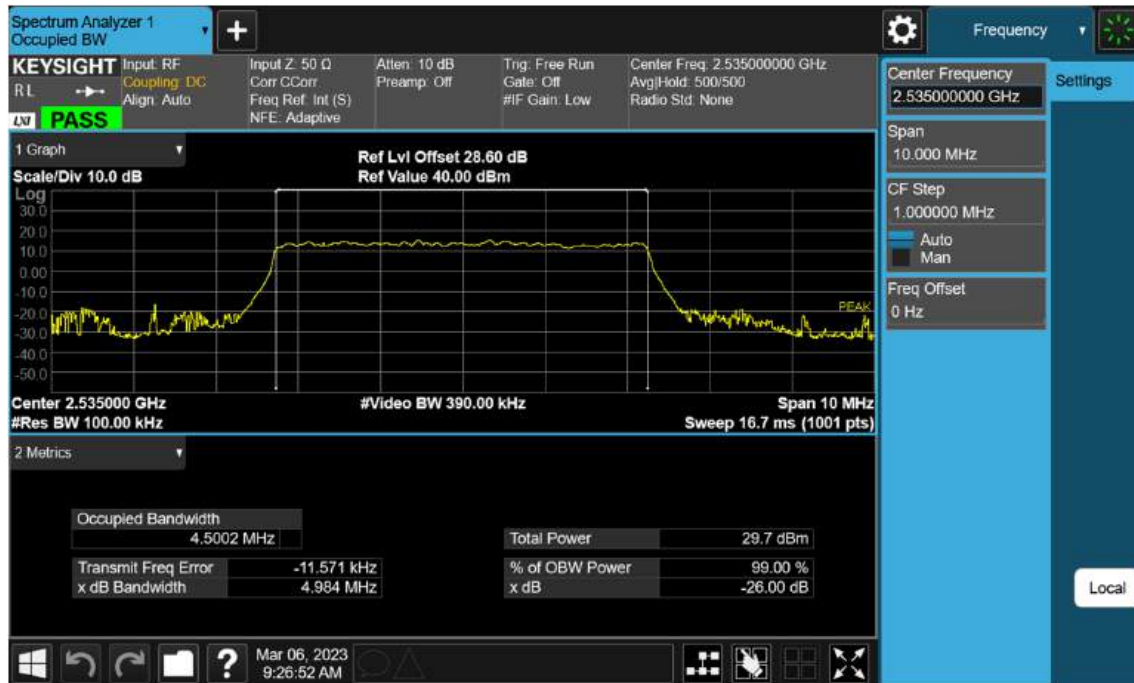
Sub6 n7. Occupied Bandwidth Plot (5 M BW Ch.507000 BPSK)



Sub6 n7. Occupied Bandwidth Plot (5 M BW Ch.507000 QPSK)

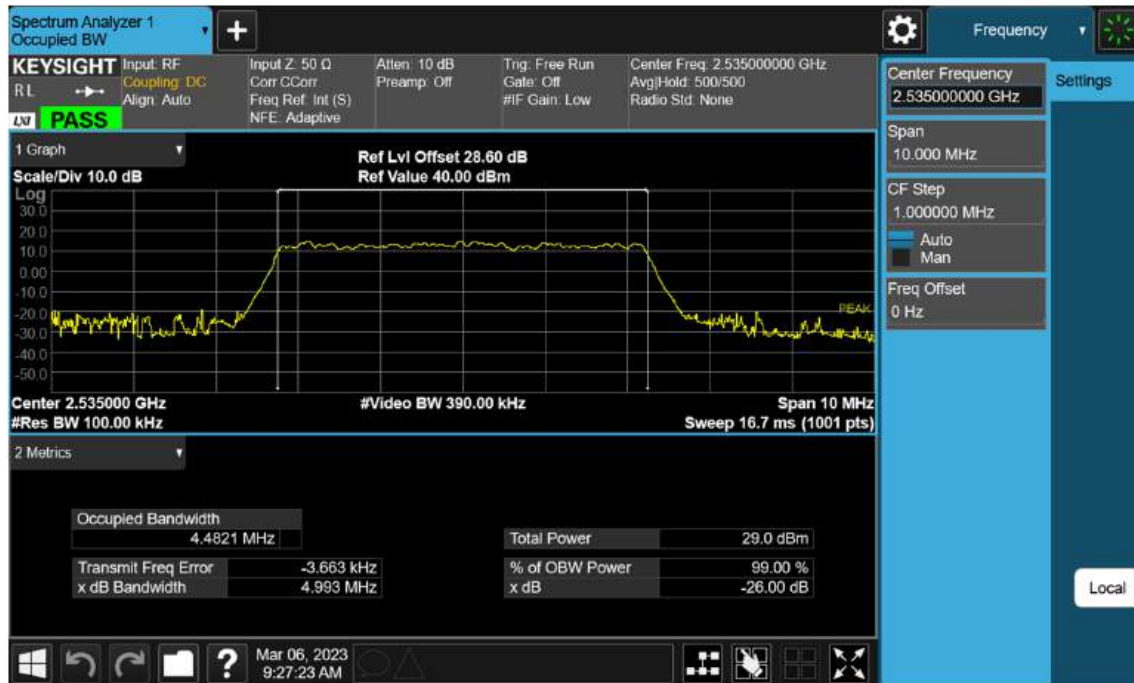


Sub6 n7. Occupied Bandwidth Plot (5 M BW Ch.507000 16QAM)

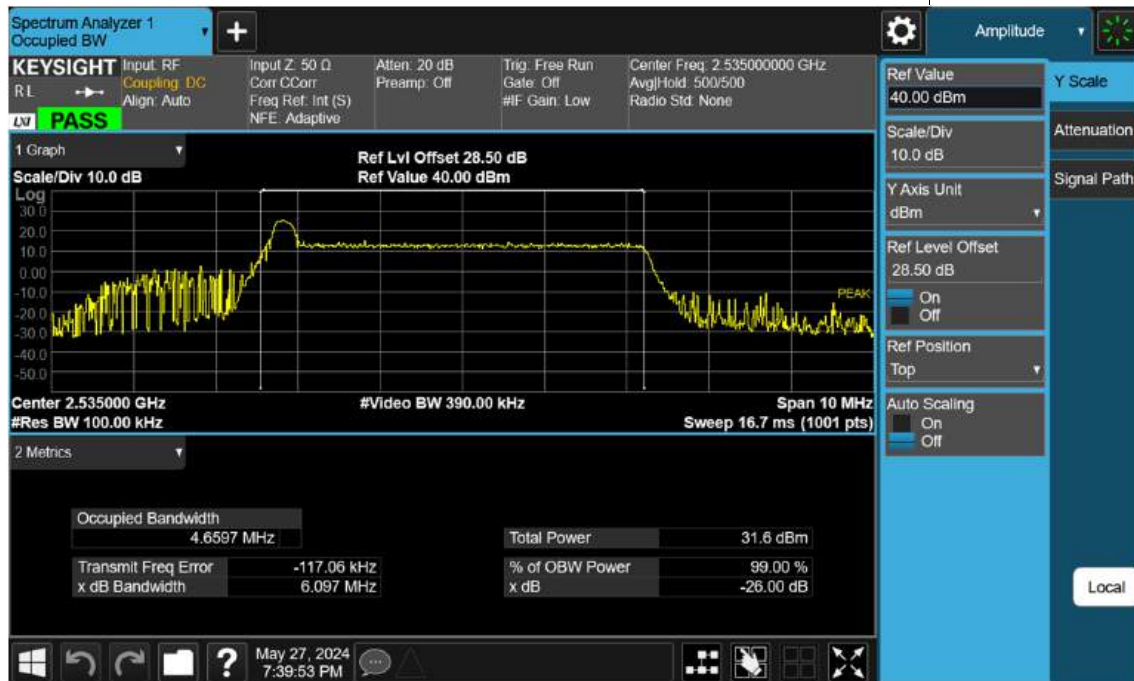




Sub6 n7. Occupied Bandwidth Plot (5 M BW Ch.507000 64QAM)



Sub6 n7. Occupied Bandwidth Plot (5 M BW Ch.507000 256QAM)



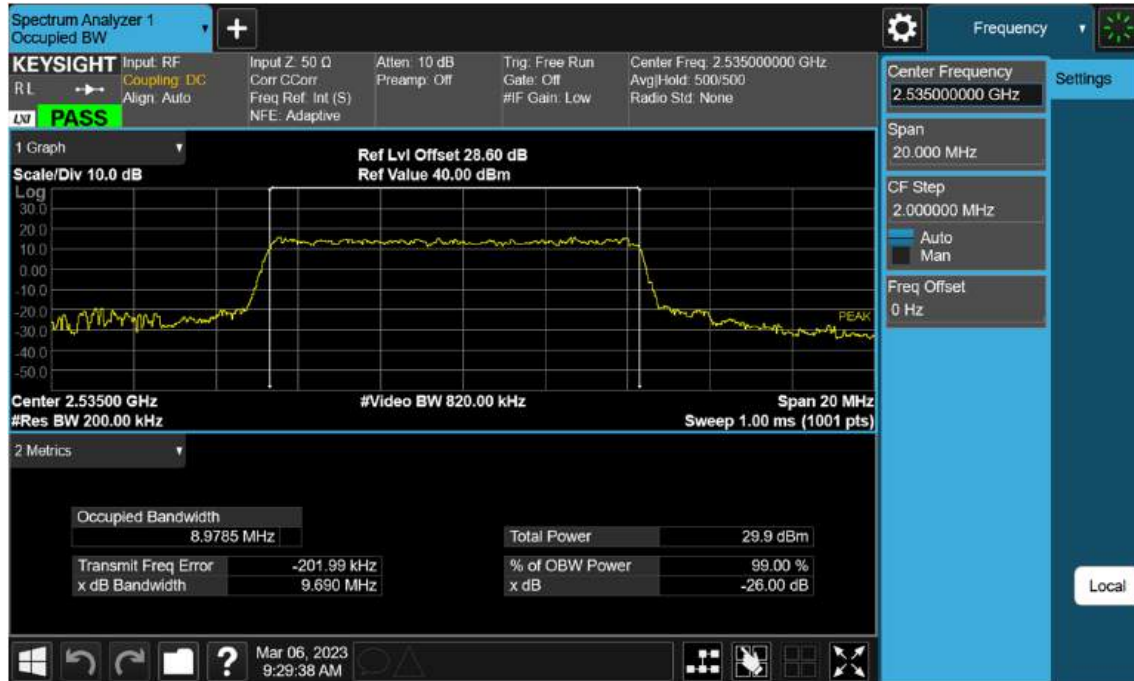
Sub6 n7. Occupied Bandwidth Plot (10 M BW Ch.507000 BPSK)



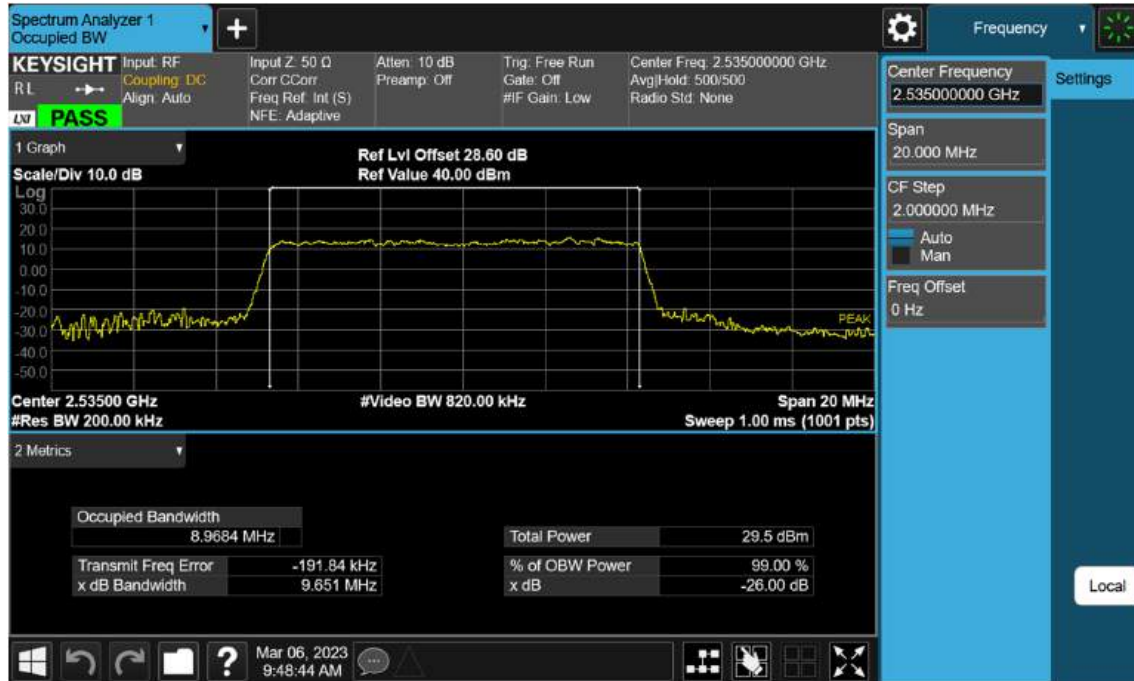
Sub6 n7. Occupied Bandwidth Plot (10 M BW Ch.507000 QPSK)



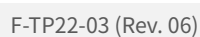
Sub6 n7. Occupied Bandwidth Plot (10 M BW Ch.507000 16QAM)



Sub6 n7. Occupied Bandwidth Plot (10 M BW Ch.507000 64QAM)



Sub6 n7. Occupied Bandwidth Plot (10 M BW Ch.507000 256QAM)



Sub6 n7. Occupied Bandwidth Plot (15 M BW Ch.507000 BPSK)





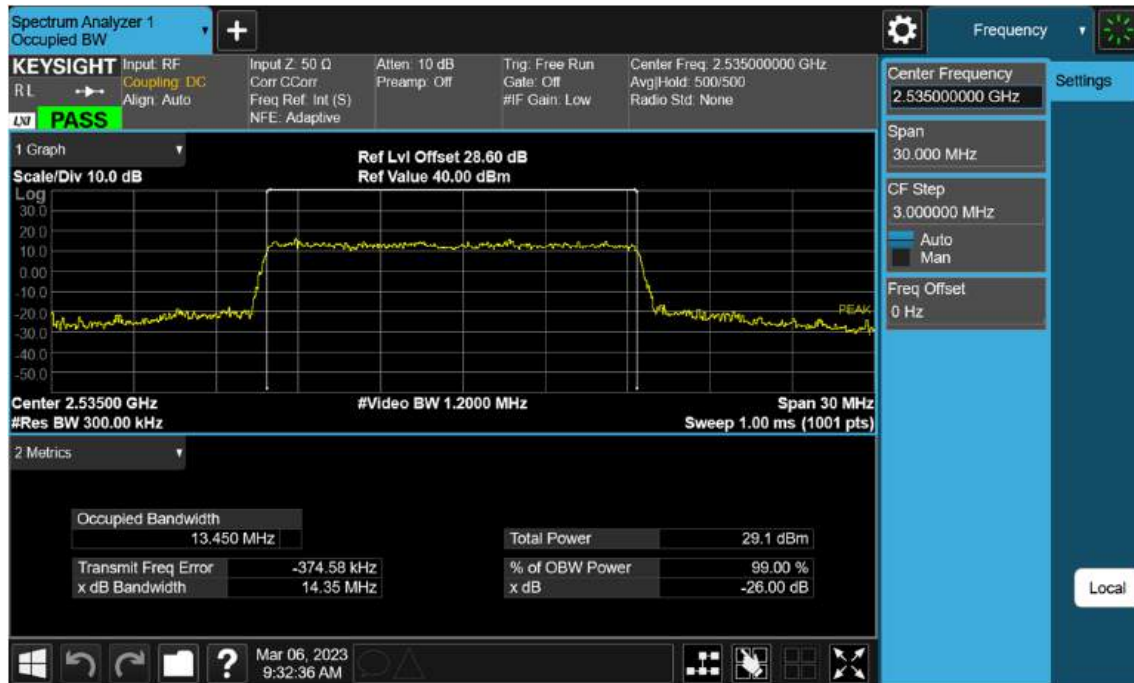
Sub6 n7. Occupied Bandwidth Plot (15 M BW Ch.507000 QPSK)



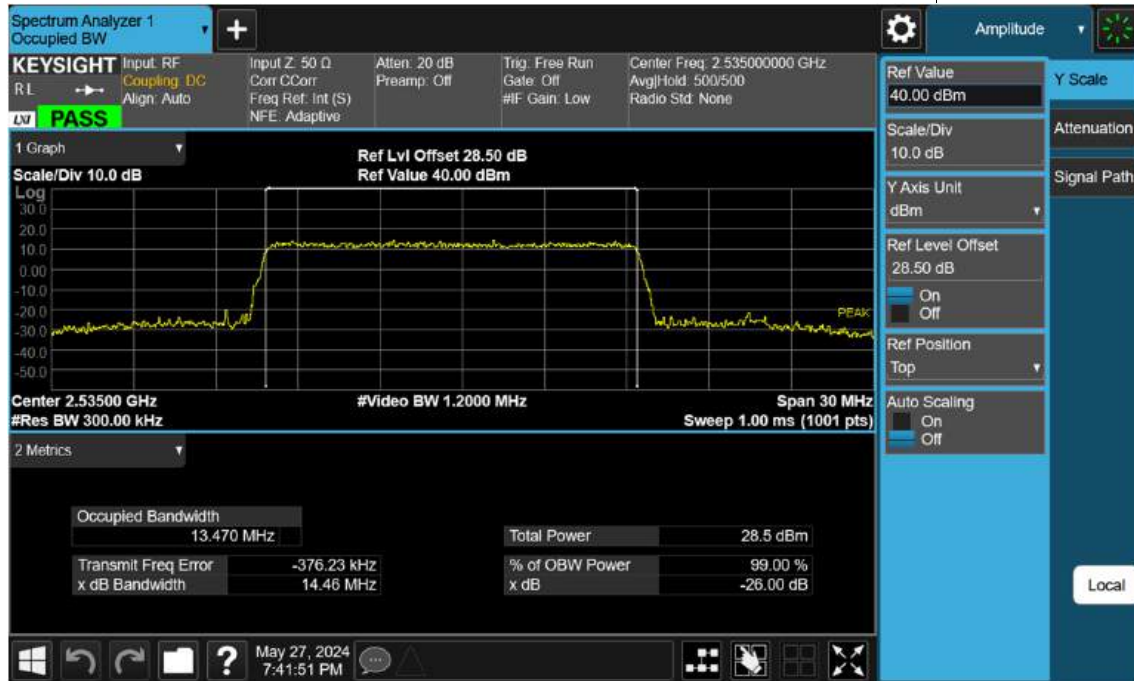
Sub6 n7. Occupied Bandwidth Plot (15 M BW Ch.507000 16QAM)



Sub6 n7. Occupied Bandwidth Plot (15 M BW Ch.507000 64QAM)



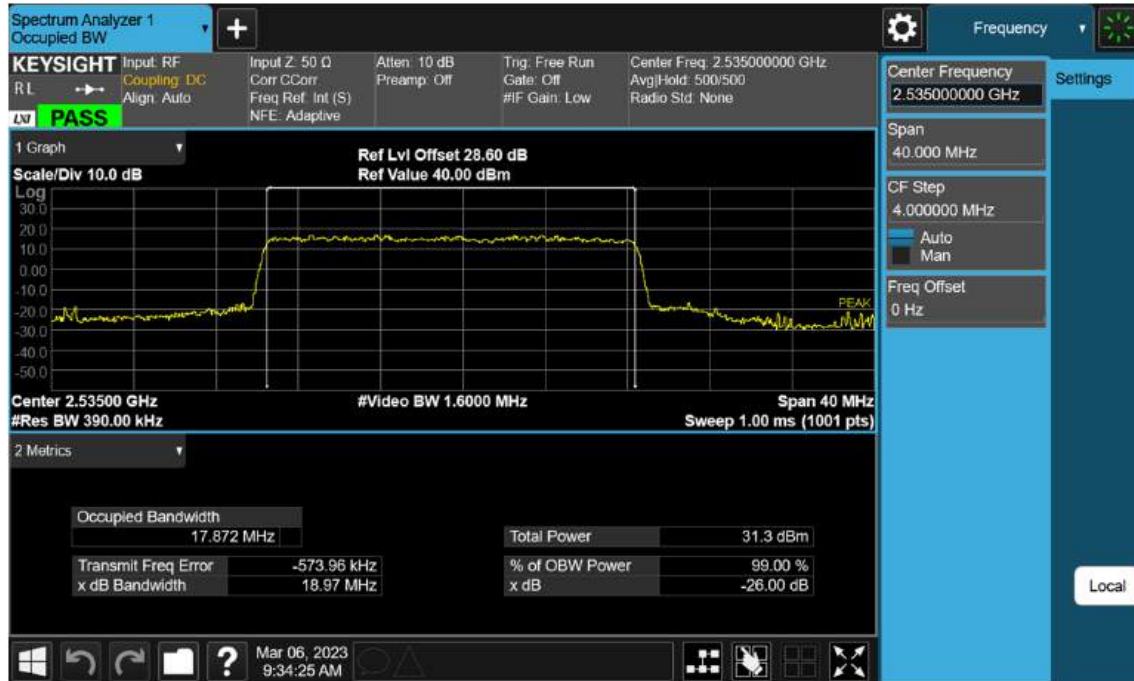
Sub6 n7. Occupied Bandwidth Plot (15 M BW Ch.507000 256QAM)



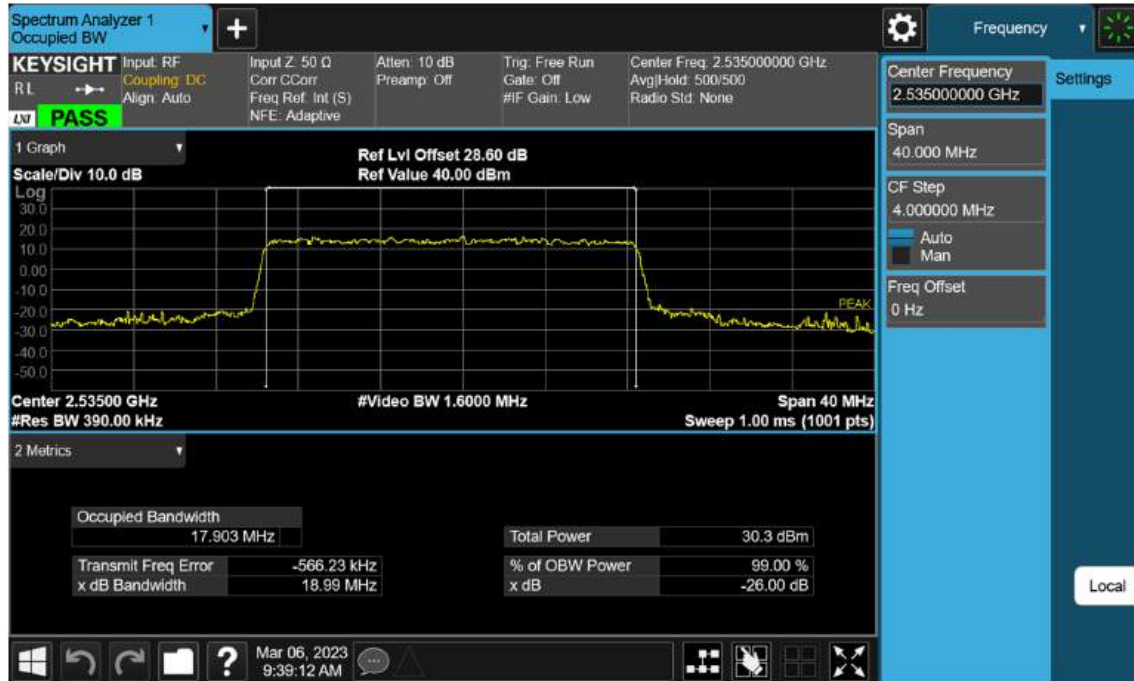
Sub6 n7. Occupied Bandwidth Plot (20 M BW Ch.507000 BPSK)



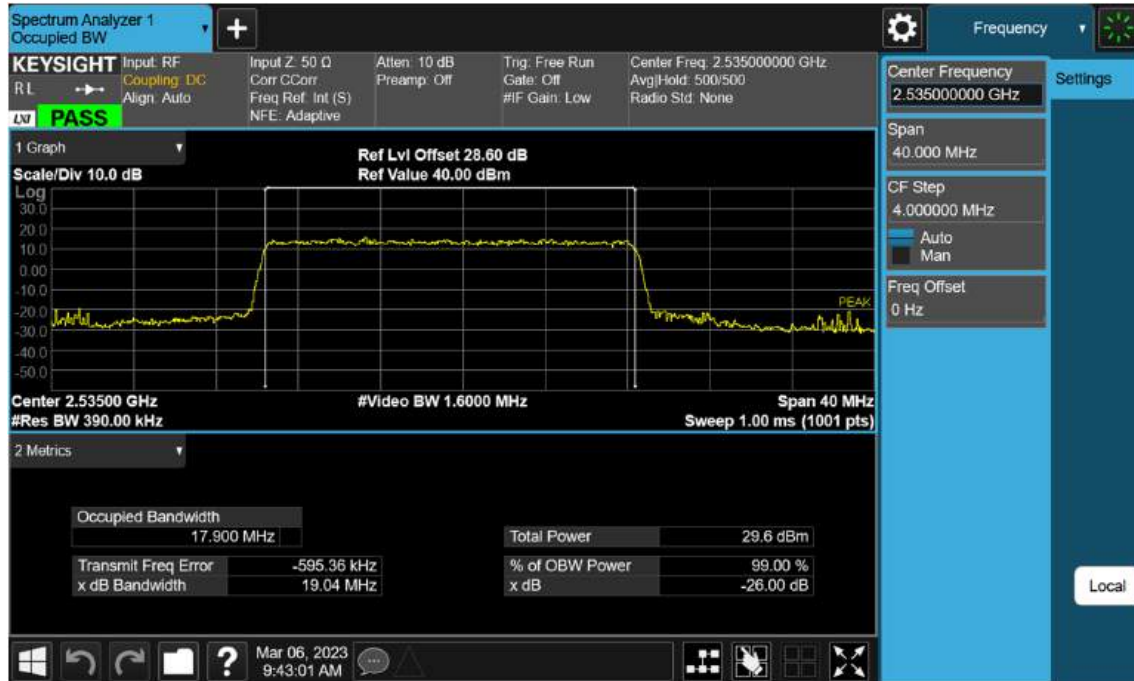
Sub6 n7. Occupied Bandwidth Plot (20 M BW Ch.507000 QPSK)



Sub6 n7. Occupied Bandwidth Plot (20 M BW Ch.507000 16QAM)

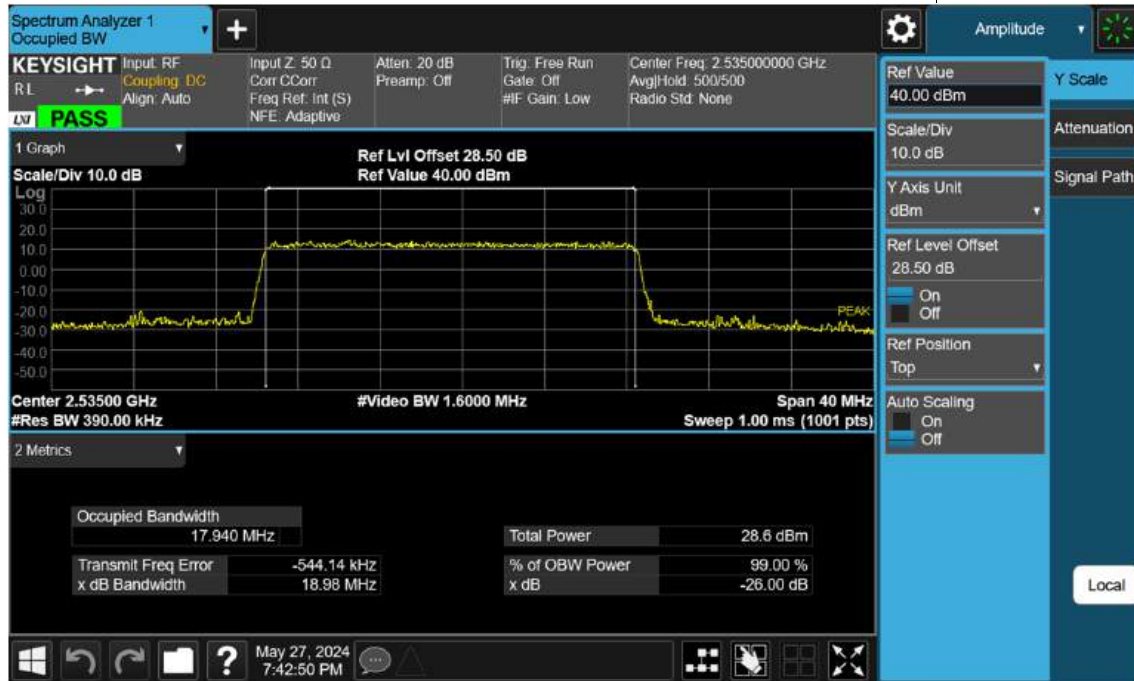


Sub6 n7. Occupied Bandwidth Plot (20 M BW Ch.507000 64QAM)





Sub6 n7. Occupied Bandwidth Plot (20 M BW Ch.507000 256QAM)



Sub6 n7. PAR Plot (5 M BW\_Ch.507000\_ BPSK)



Sub6 n7. PAR Plot (5 M BW\_Ch.507000\_QPSK)



Sub6 n7. PAR Plot (5 M BW\_Ch.507000\_16QAM)



Sub6 n7. PAR Plot (5 M BW\_Ch.507000\_64QAM)



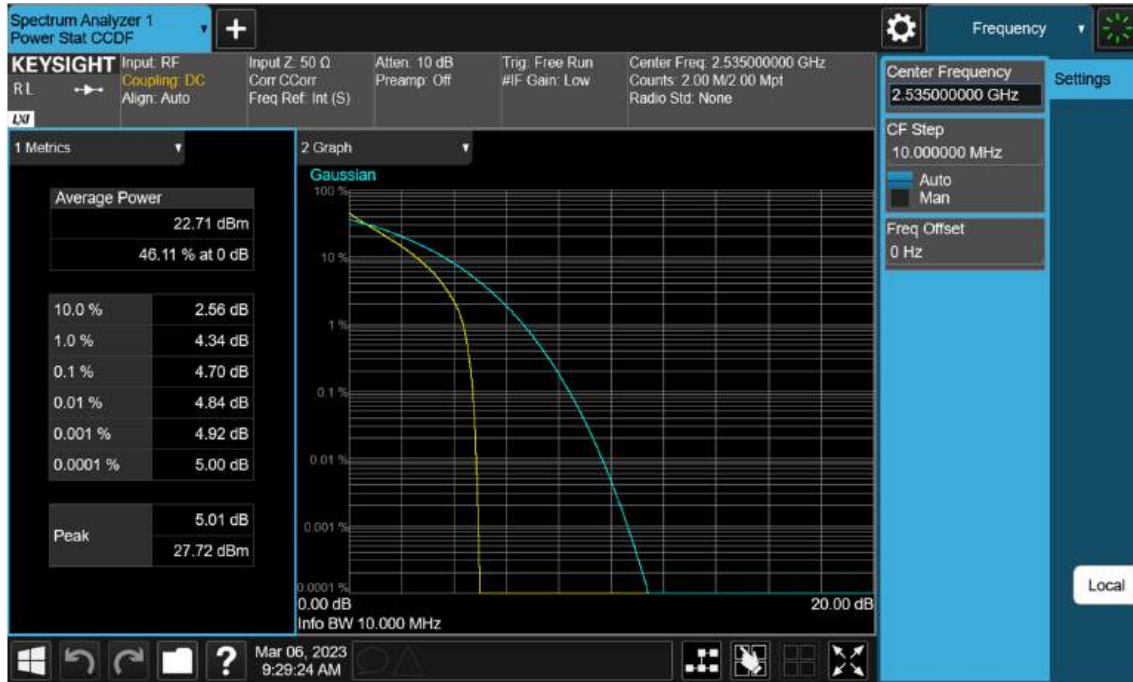
Sub6 n7. PAR Plot (5 M BW\_Ch.507000\_256QAM)



Sub6 n7. PAR Plot (10 M BW\_Ch.507000\_ BPSK)



Sub6 n7. PAR Plot (10 M BW\_Ch.507000\_QPSK)





Sub6 n7. PAR Plot (10 M BW\_Ch.507000\_16QAM)



Sub6 n7. PAR Plot (10 M BW\_Ch.507000\_64QAM)



Sub6 n7. PAR Plot (10 M BW\_Ch.507000\_256QAM)



Sub6 n7. PAR Plot (15 M BW\_Ch.507000\_ BPSK)



Sub6 n7. PAR Plot (15 M BW\_Ch.507000\_QPSK)



Sub6 n7. PAR Plot (15 M BW\_Ch.507000\_16QAM)



Sub6 n7. PAR Plot (15 M BW\_Ch.507000\_64QAM)



Sub6 n7. PAR Plot (15 M BW\_Ch.507000\_256QAM)





Sub6 n7. PAR Plot (20 M BW\_Ch.507000\_ BPSK)



Sub6 n7. PAR Plot (20 M BW\_Ch.507000\_QPSK)



Sub6 n7. PAR Plot (20 M BW\_Ch.507000\_16QAM)



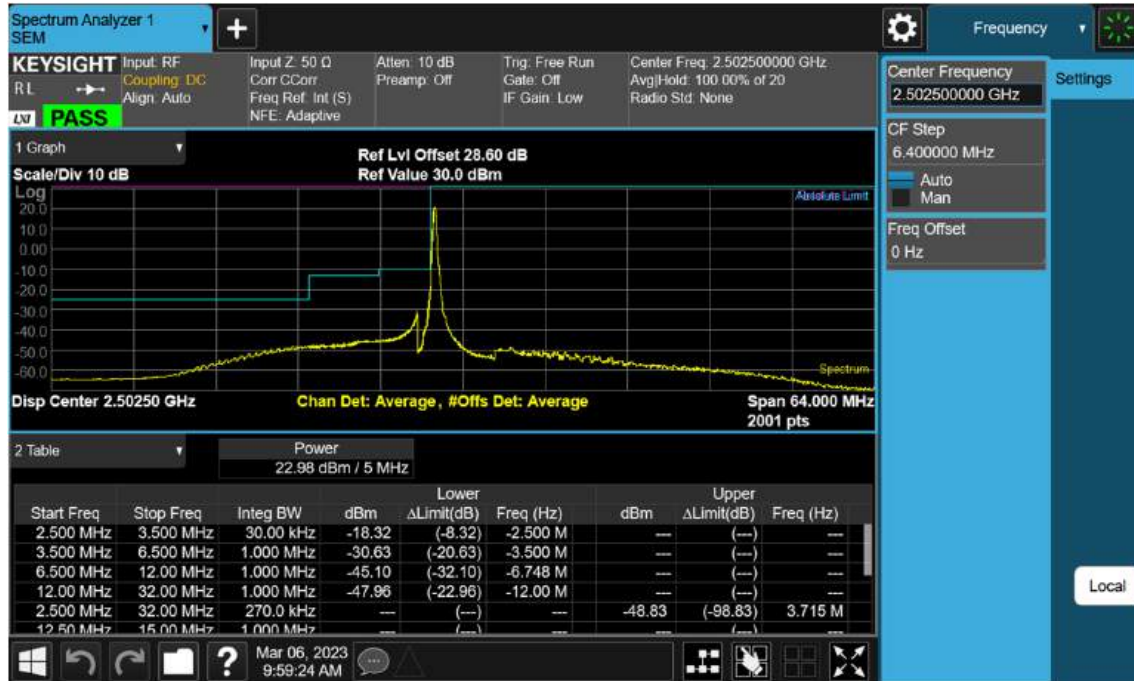
Sub6 n7. PAR Plot (20 M BW\_Ch.507000\_64QAM)



Sub6 n7. PAR Plot (20 M BW\_Ch.507000\_256QAM)



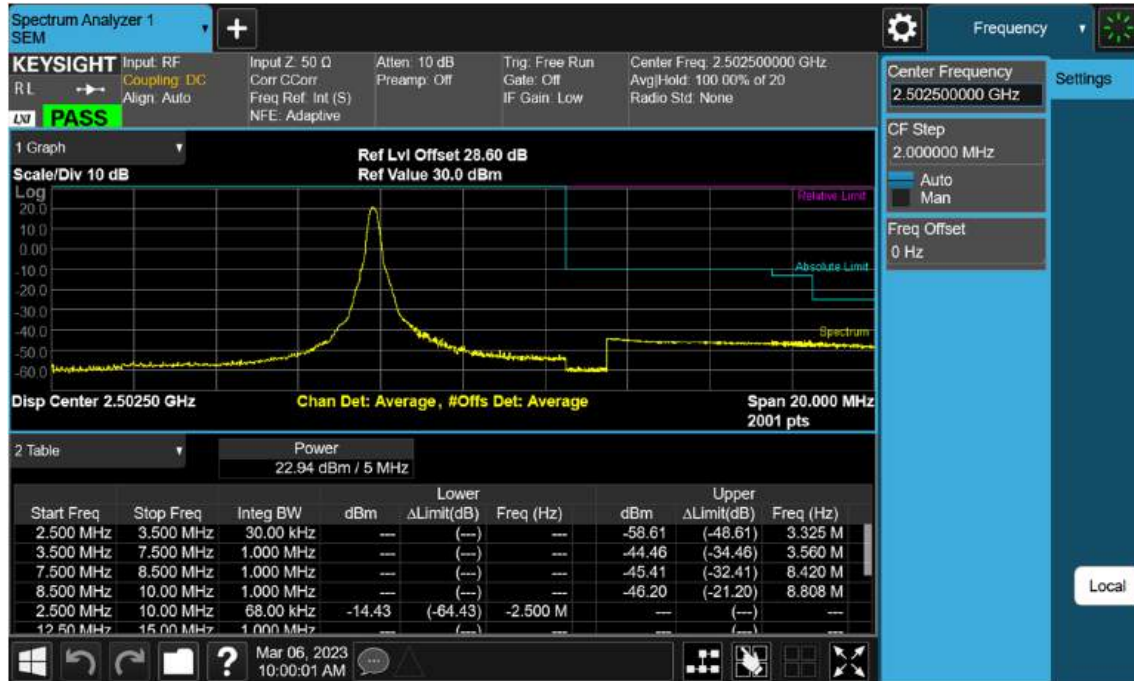
Sub6 n7. Low Channel Edge Plot (5 MHz Ch.500500 BPSK RB 1)-1



Sub6 n7. Low Channel Edge Plot (5 MHz Ch.500500 BPSK)-1

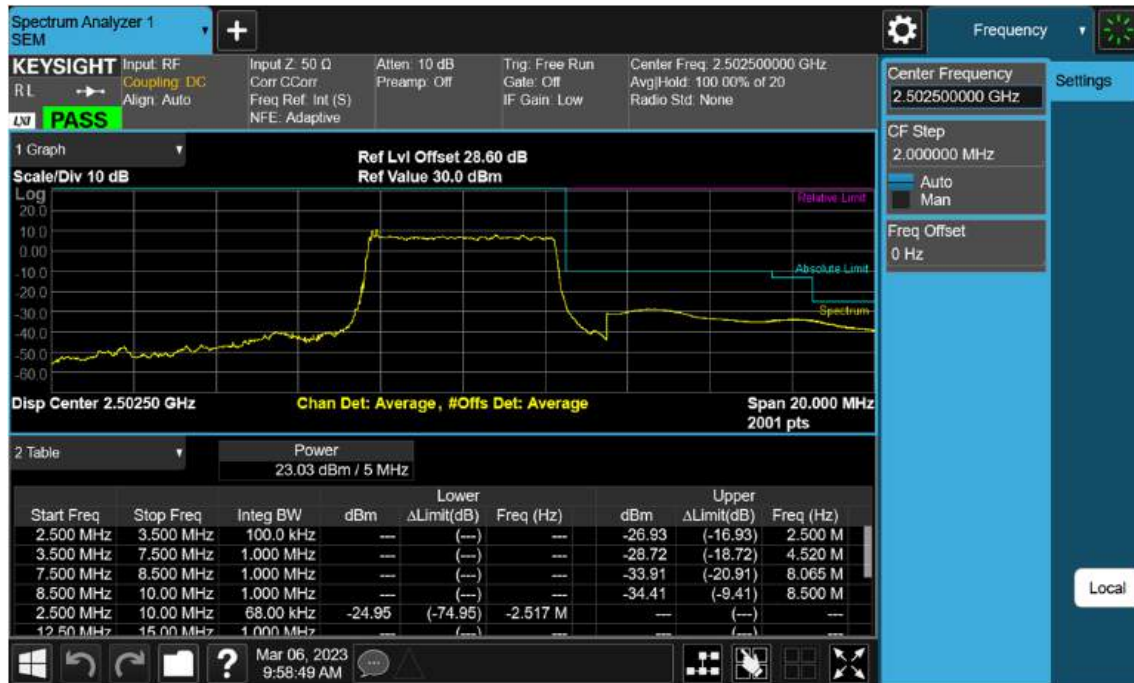


Sub6 n7. Low Channel Edge Plot (5 MHz Ch.500500 BPSK\_RB 1)-2





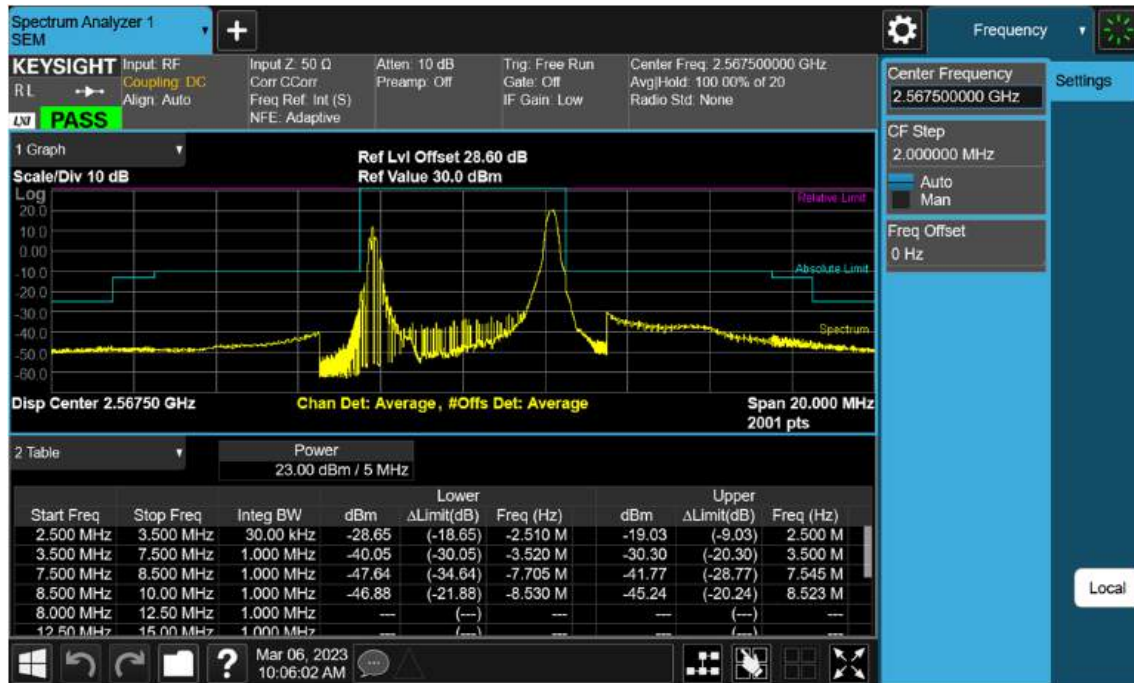
Sub6 n7. Low Channel Edge Plot (5 MHz Ch.500500 BPSK)-2



Sub6 n7. Mid Channel Edge Plot (5 MHz Ch.507000 BPSK)



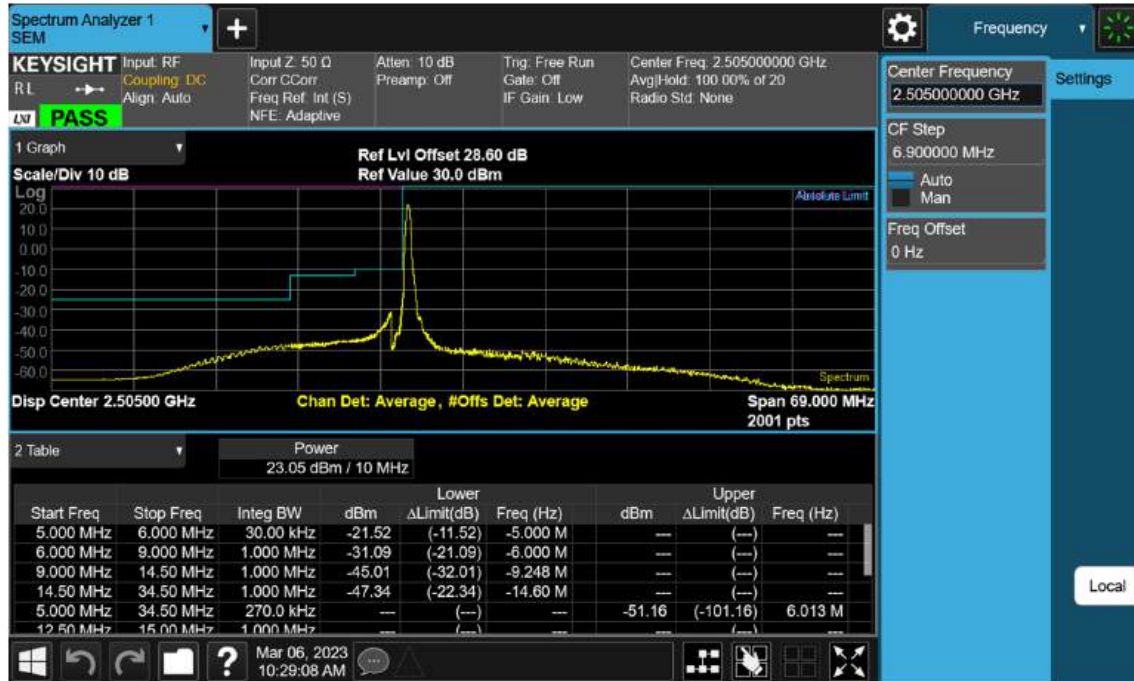
Sub6 n7. High Channel Edge Plot (5 MHz Ch.513500 BPSK RB 1)



Sub6 n7. High Channel Edge Plot (5 MHz Ch.513500 BPSK)



Sub6 n7. Low Channel Edge Plot (10 MHz Ch.501000 BPSK RB 1)-1



Sub6 n7. Low Channel Edge Plot (10 MHz Ch.501000 BPSK)-1





Sub6 n7. Low Channel Edge Plot (10 MHz Ch.501000 BPSK RB 1)-2



Sub6 n7. Low Channel Edge Plot (10 MHz Ch.501000 BPSK)-2

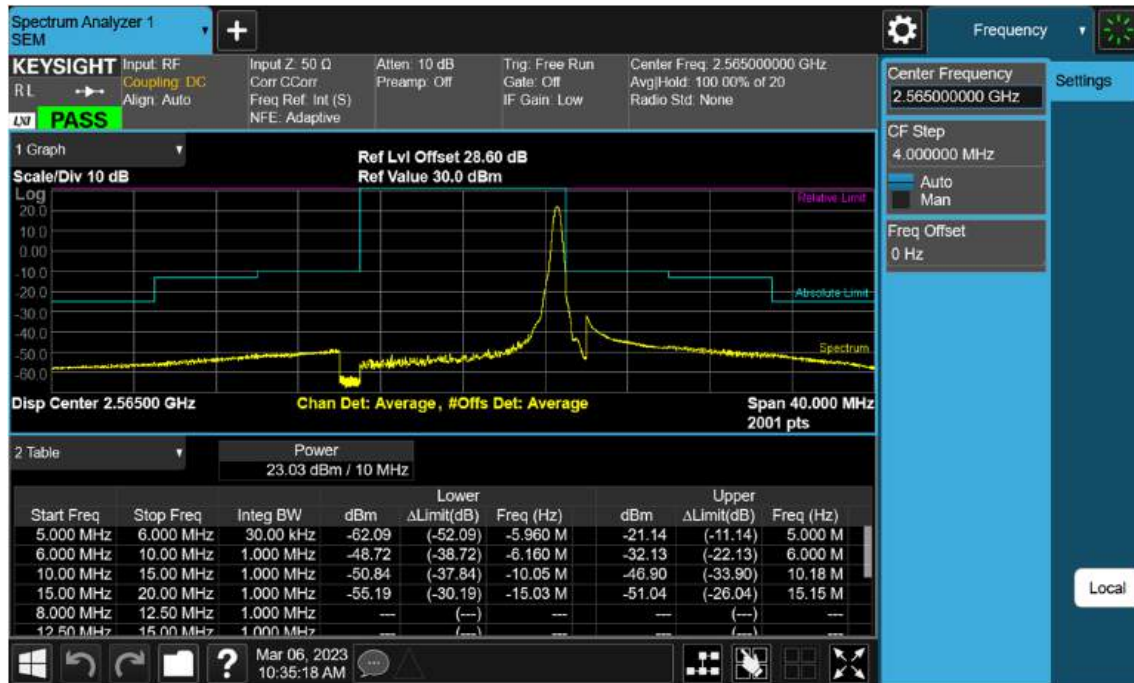




Sub6 n7. Mid Channel Edge Plot (10 MHz Ch.507000 BPSK)



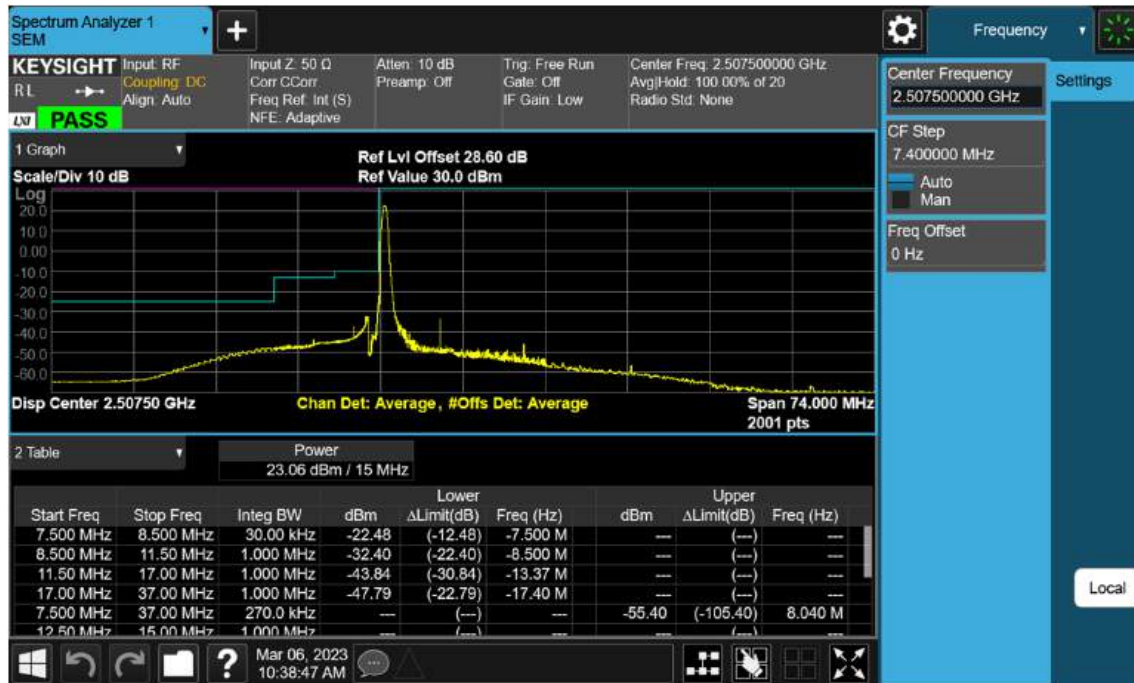
Sub6 n7. High Channel Edge Plot (10 MHz Ch.513000 BPSK RB 1)



### Sub6 n7. High Channel Edge Plot (10 MHz Ch.513000 BPSK)



Sub6 n7. Low Channel Edge Plot (15 MHz Ch.501500 BPSK RB 1)-1



Sub6 n7. Low Channel Edge Plot (15 MHz Ch.501500 BPSK)-1



Sub6 n7. Low Channel Edge Plot (15 MHz Ch.501500 BPSK\_RB1)-2





Sub6 n7. Low Channel Edge Plot (15 MHz Ch.501500 BPSK)-2

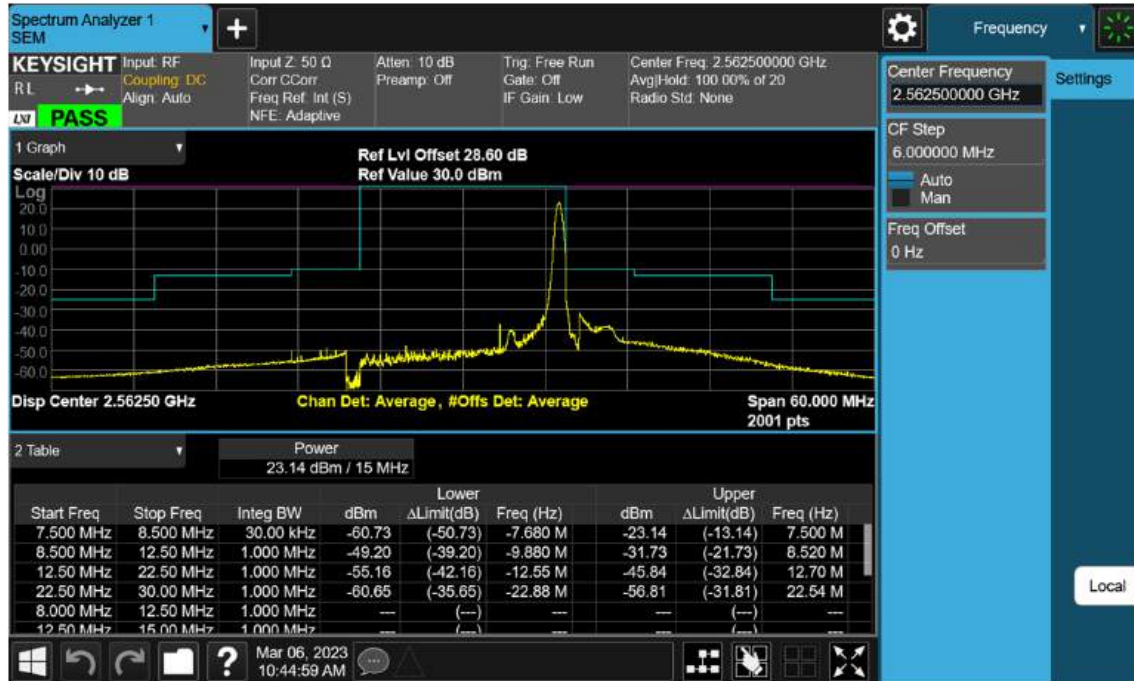


Sub6 n7. Mid Channel Edge Plot (15 MHz Ch.507000 BPSK)





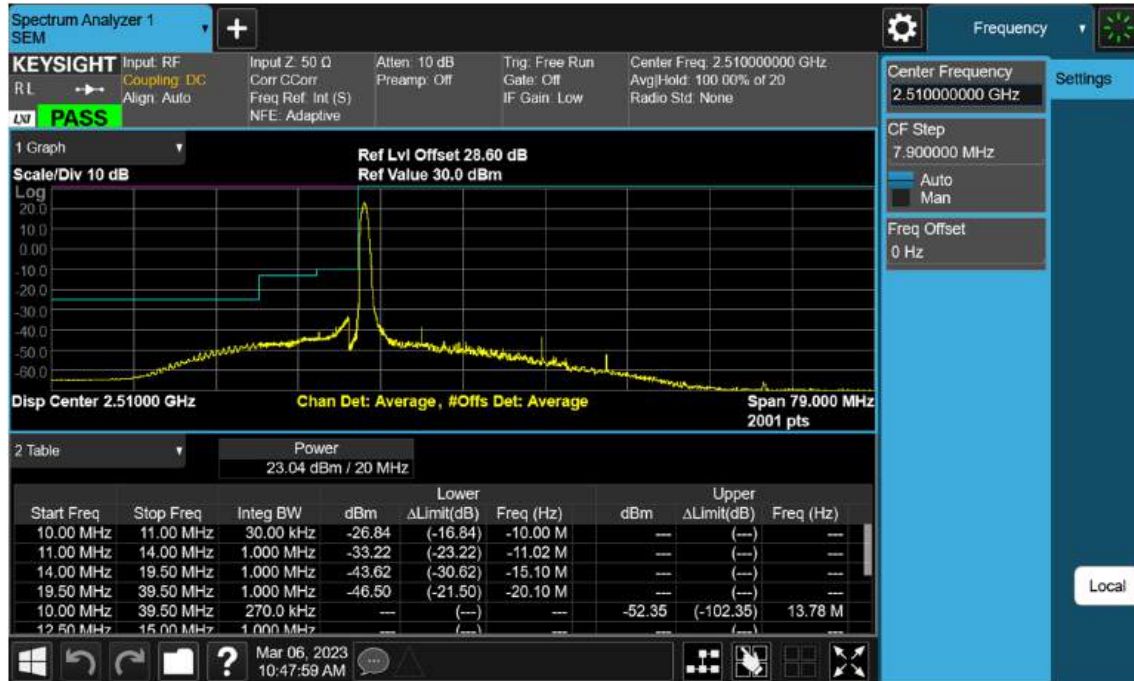
Sub6 n7. High Channel Edge Plot (15 MHz Ch.512500 BPSK RB 1)



Sub6 n7. High Channel Edge Plot (15 MHz Ch.512500 BPSK)



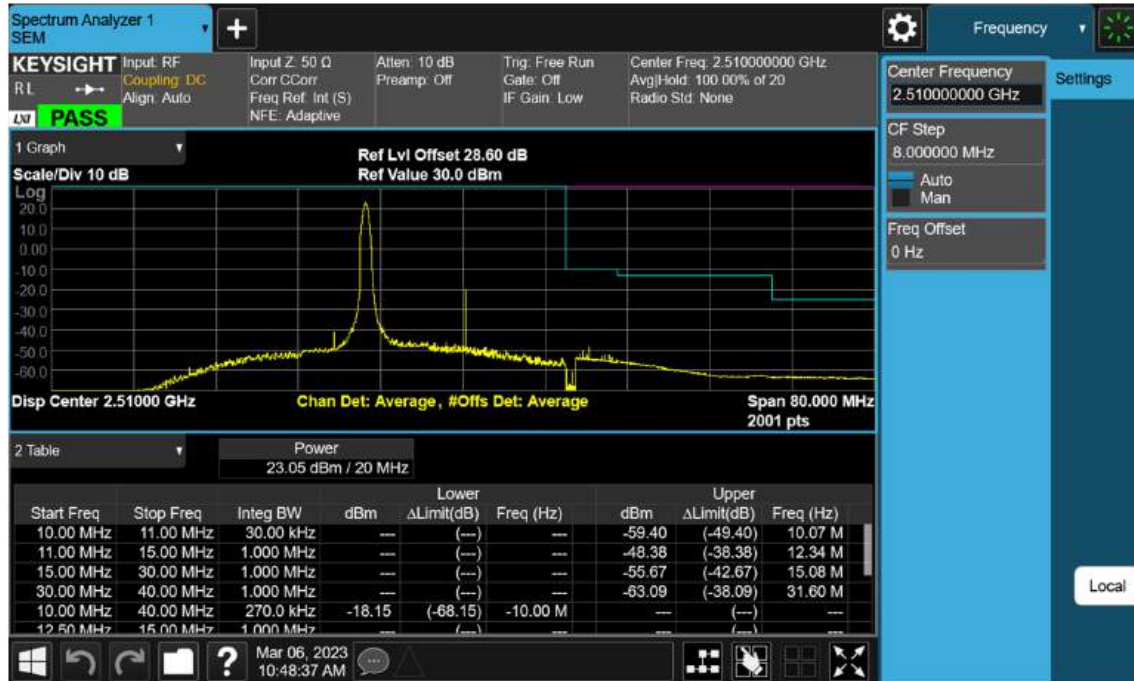
Sub6 n7. Low Channel Edge Plot (20 MHz Ch.502000 BPSK RB 1)-1



Sub6 n7. Low Channel Edge Plot (20 MHz Ch.502000 BPSK)-1



Sub6 n7. Low Channel Edge Plot (20 MHz Ch.502000 BPSK\_RB1)-2



Sub6 n7. Low Channel Edge Plot (20 MHz Ch.502000 BPSK)-2

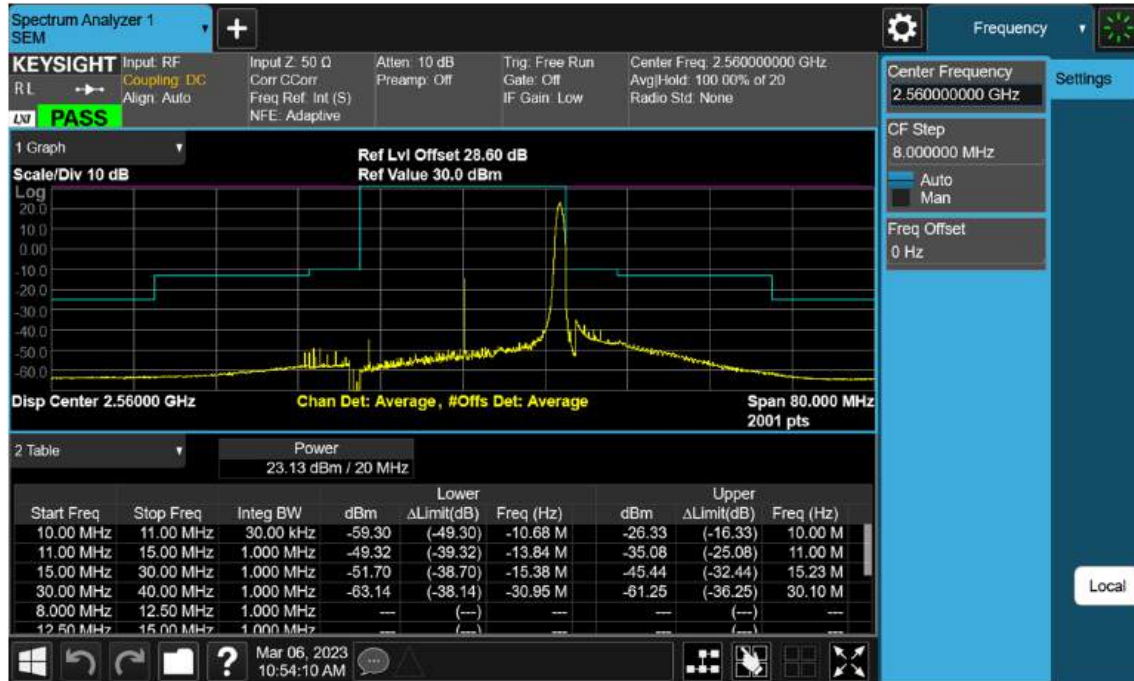




Sub6 n7. Mid Channel Edge Plot (20 MHz Ch.507000 BPSK)



Sub6 n7. High Channel Edge Plot (20 MHz Ch.512000 BPSK RB 1)





Sub6 n7. High Channel Edge Plot (20 MHz Ch.512000 BPSK)



Sub6 n7. Conducted Spurious\_1 (500500ch\_5 MHz\_BPSK\_RB 1)



Sub6 n7. Conducted Spurious\_2 (500500ch\_5 MHz\_BPSK\_RB 1)



Sub6 n7. Conducted Spurious\_1 (507000ch\_5 MHz\_BPSK\_RB 1)



Sub6 n7. Conducted Spurious\_2 (507000ch\_5 MHz\_BPSK\_RB 1)



Sub6 n7. Conducted Spurious\_1 (513500ch\_5 MHz\_BPSK\_RB 1)



Sub6 n7. Conducted Spurious\_2 (513500ch\_5 MHz\_BPSK\_RB 1)





Sub6 n7. Conducted Spurious\_1 (501000ch\_10 MHz\_BPSK\_RB 1)





Sub6 n7. Conducted Spurious\_2 (501000ch\_10 MHz\_BPSK\_RB 1)



Sub6 n7. Conducted Spurious\_1 (507000ch\_10 MHz\_BPSK\_RB 1)



Sub6 n7. Conducted Spurious\_2 (507000ch\_10 MHz\_BPSK\_RB 1)



Sub6 n7. Conducted Spurious\_1 (513000ch\_10 MHz\_BPSK\_RB 1)



Sub6 n7. Conducted Spurious\_2 (513000ch\_10 MHz\_BPSK\_RB 1)



Sub6 n7. Conducted Spurious\_1 (501500ch\_15 MHz\_BPSK\_RB 1)

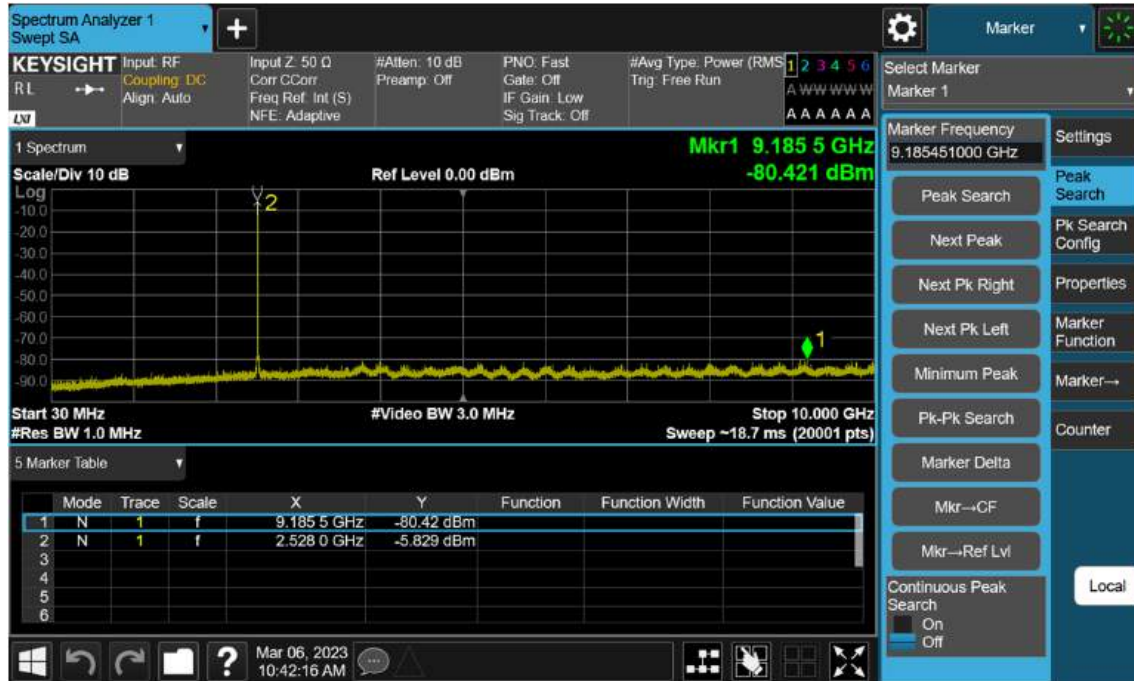


Sub6 n7. Conducted Spurious\_2 (501500ch\_15 MHz\_BPSK\_RB 1)





Sub6 n7. Conducted Spurious\_1 (507000ch\_15 MHz\_BPSK\_RB 1)

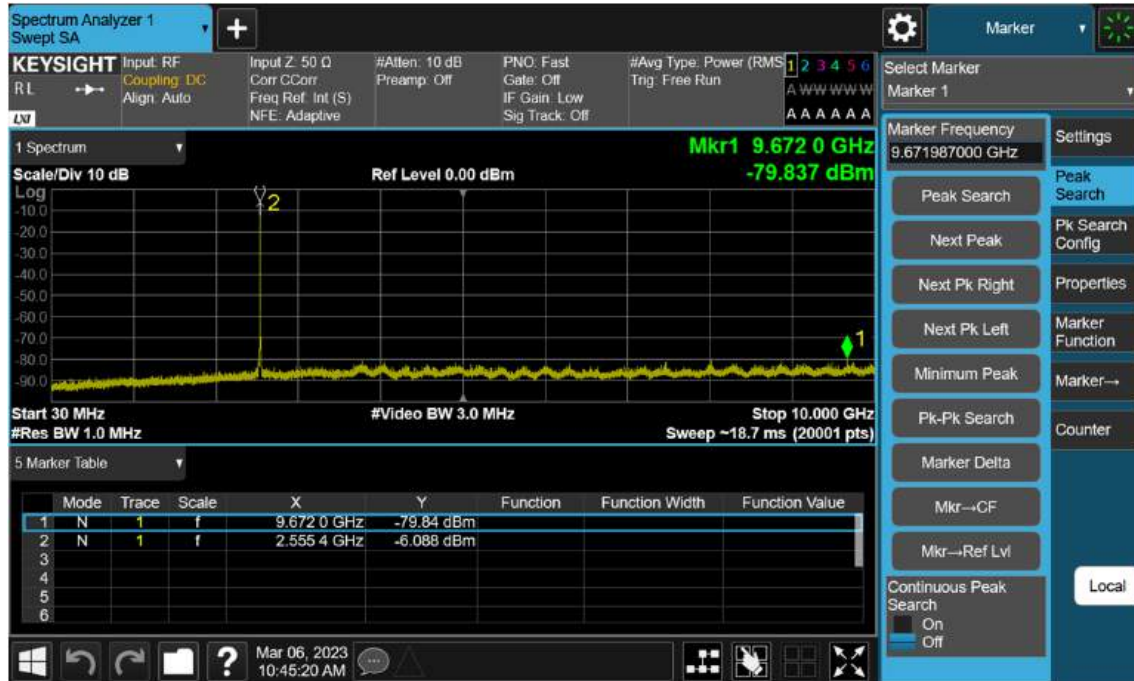




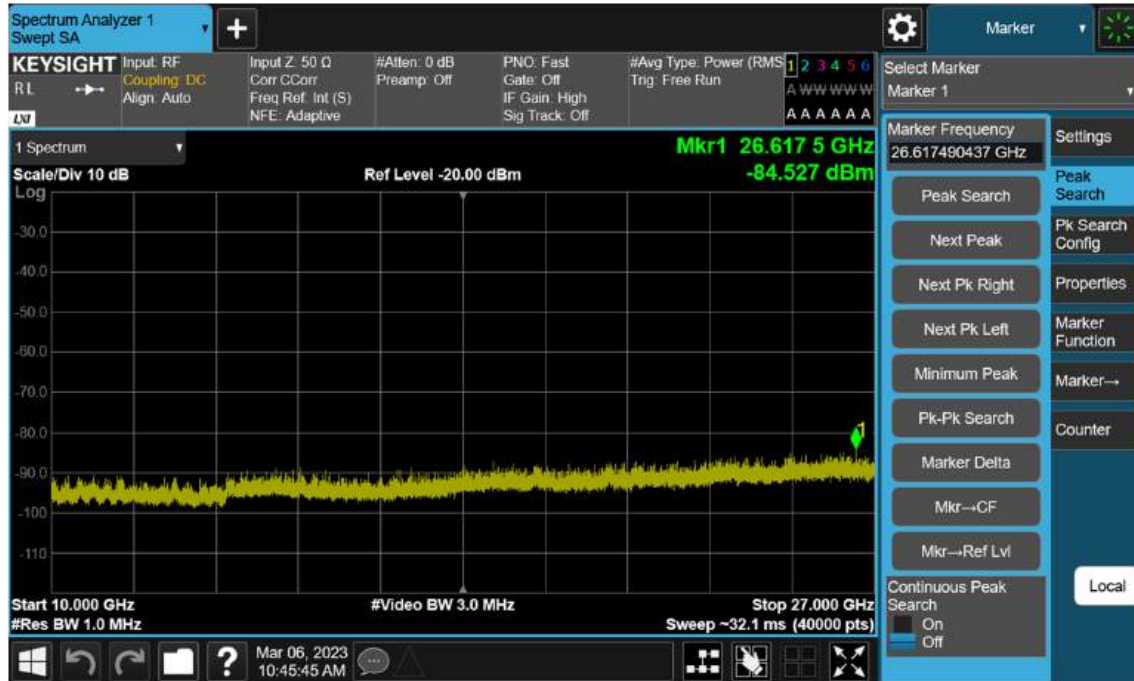
Sub6 n7. Conducted Spurious\_2 (507000ch\_15 MHz\_BPSK\_RB 1)



Sub6 n7. Conducted Spurious\_1 (512500ch\_15 MHz\_BPSK\_RB 1)



Sub6 n7. Conducted Spurious\_2 (512500ch\_15 MHz\_BPSK\_RB 1)



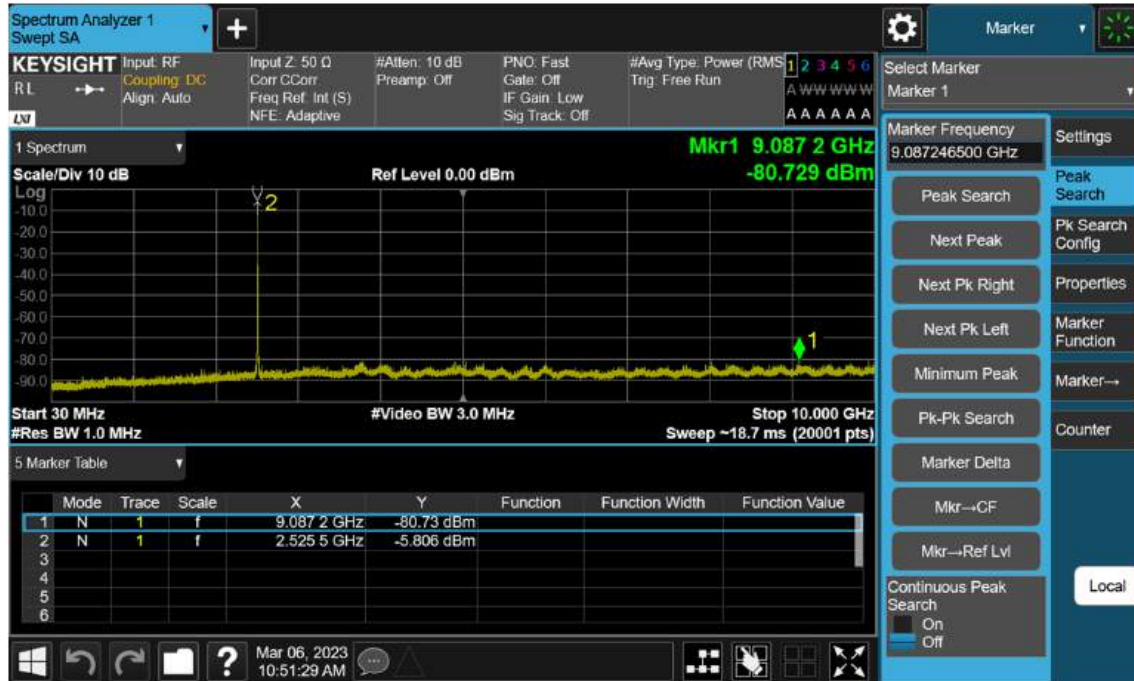
Sub6 n7. Conducted Spurious\_1 (502000ch\_20 MHz\_BPSK\_RB 1)



Sub6 n7. Conducted Spurious\_2 (502000ch\_20 MHz\_BPSK\_RB 1)



Sub6 n7. Conducted Spurious\_1 (507000ch\_20 MHz\_BPSK\_RB 1)

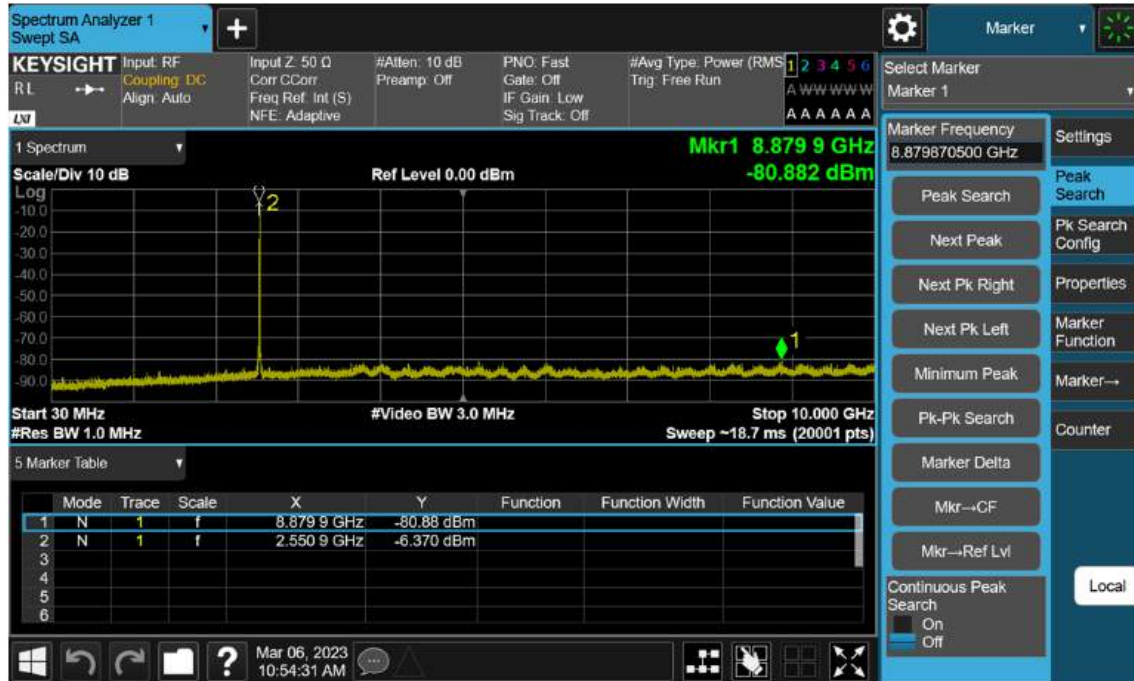


Sub6 n7. Conducted Spurious\_2 (507000ch\_20 MHz\_BPSK\_RB 1)





Sub6 n7. Conducted Spurious\_1 (512000ch\_20 MHz\_BPSK\_RB 1)





Sub6 n7. Conducted Spurious\_2 (512000ch\_20 MHz\_BPSK\_RB 1)



## 10. ANNEX A\_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

| No. | Description         |
|-----|---------------------|
| 1   | HCT-RF-2409-FC007-P |