

TEST REPORT

FCC Sub6 n66 Test for SM-A176U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2510-FC023

DATE OF ISSUE
October 15, 2025

Tested by
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TEST REPORT

REPORT NO.

HCT-RF-2510-FC023

DATE OF ISSUE

October 15, 2025

Additional Model

SM-A176U1, SM-S176V

Applicant

SAMSUNG Electronics Co., Ltd.

129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea

Product Name

Mobile Phone

Model Name

SM-A176U

Date of Test

August 28, 2025 ~ September 29, 2025

FCC ID

A3LSMA176U

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 Classification:

PCS Licensed Transmitter Held to Ear (PCE)

Test Standard Used

FCC Rule Part: § 27

Test Results

PASS

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	October 15, 2025	Initial Release

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

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

Model(s):	SM-A176U
Additional Model(s)	SM-A176U1, SM-S176V
SCS(kHz):	15
Bandwidth(MHz):	5, 10, 15, 20, 25, 30, 40
Waveform:	CP-OFDM, DFT-S-OFDM
Modulation:	DFT-S-OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM
Tx Frequency:	1712.5 MHz – 1777.5 MHz (Sub6 n66(5 MHz)) 1715.0 MHz – 1775.0 MHz (Sub6 n66(10 MHz)) 1717.5 MHz – 1772.5 MHz (Sub6 n66(15 MHz)) 1720.0 MHz – 1770.0 MHz (Sub6 n66(20 MHz)) 1722.5 MHz – 1767.5 MHz (Sub6 n66(25 MHz)) 1725.0 MHz – 1765.0 MHz (Sub6 n66(30 MHz)) 1730.0 MHz – 1760.0 MHz (Sub6 n66(40 MHz))
Serial number:	Radiated : R3CY70RH3SM(Main 1 ANT), R3CY80LZRZM(Sub 2 ANT) Conducted : R3CY70RH35D(Main 1 ANT), R3CY80LZSDY(Sub 2 ANT)
Antenna Information	Please refer to the Antenna Specification document.

1.1. MAXIMUM OUTPUT POWER

Main 1 ANT

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n66 (5)	1712.5 – 1777.5	4M66G7D	PI/2 BPSK	0.216	23.34
		4M69G7D	QPSK	0.215	23.33
		4M68W7D	16QAM	0.172	22.35
		4M68W7D	64QAM	0.120	20.79
		4M76W7D	256QAM	0.078	18.90
Sub6 n66 (10)	1715.0 – 1775.0	8M99G7D	PI/2 BPSK	0.214	23.30
		8M97G7D	QPSK	0.213	23.29
		8M99W7D	16QAM	0.169	22.28
		9M00W7D	64QAM	0.117	20.70
		8M98W7D	256QAM	0.077	18.87
Sub6 n66 (15)	1717.5 – 1772.5	13M5G7D	PI/2 BPSK	0.215	23.33
		13M5G7D	QPSK	0.214	23.30
		13M5W7D	16QAM	0.169	22.27
		13M5W7D	64QAM	0.123	20.90
		13M5W7D	256QAM	0.075	18.76
Sub6 n66 (20)	1720.0 – 1770.0	17M9G7D	PI/2 BPSK	0.214	23.31
		17M9G7D	QPSK	0.214	23.30
		17M9W7D	16QAM	0.167	22.23
		17M9W7D	64QAM	0.122	20.87
		17M9W7D	256QAM	0.075	18.76
Sub6 n66 (25)	1722.5 – 1767.5	23M0G7D	PI/2 BPSK	0.216	23.34
		23M0G7D	QPSK	0.215	23.32
		22M9W7D	16QAM	0.171	22.33
		23M0W7D	64QAM	0.119	20.77
		23M0W7D	256QAM	0.077	18.88
Sub6 n66 (30)	1725.0 – 1765.0	28M8G7D	PI/2 BPSK	0.221	23.44
		28M7G7D	QPSK	0.219	23.41
		28M7W7D	16QAM	0.170	22.31
		28M8W7D	64QAM	0.121	20.84
		28M6W7D	256QAM	0.077	18.86
Sub6 n66 (40)	1730.0 – 1760.0	38M8G7D	PI/2 BPSK	0.221	23.45
		38M7G7D	QPSK	0.220	23.42
		38M6W7D	16QAM	0.175	22.43
		38M8W7D	64QAM	0.127	21.04
		38M8W7D	256QAM	0.077	18.87

Sub 2 ANT

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n66 (5)	1712.5 – 1777.5	4M68G7D	PI/2 BPSK	0.299	24.76
		4M68G7D	QPSK	0.295	24.70
		4M69W7D	16QAM	0.241	23.82
		4M70W7D	64QAM	0.170	22.31
		4M60W7D	256QAM	0.107	20.29
Sub6 n66 (10)	1715.0 – 1775.0	8M99G7D	PI/2 BPSK	0.289	24.61
		8M99G7D	QPSK	0.285	24.55
		9M00W7D	16QAM	0.226	23.55
		9M00W7D	64QAM	0.160	22.04
		8M97W7D	256QAM	0.098	19.90
Sub6 n66 (15)	1717.5 – 1772.5	13M5G7D	PI/2 BPSK	0.265	24.23
		13M5G7D	QPSK	0.264	24.22
		13M5W7D	16QAM	0.218	23.38
		13M5W7D	64QAM	0.159	22.02
		13M4W7D	256QAM	0.103	20.11
Sub6 n66 (20)	1720.0 – 1770.0	18M0G7D	PI/2 BPSK	0.278	24.44
		18M0G7D	QPSK	0.277	24.43
		17M9W7D	16QAM	0.218	23.39
		17M9W7D	64QAM	0.157	21.97
		18M0W7D	256QAM	0.099	19.96
Sub6 n66 (25)	1722.5 – 1767.5	23M1G7D	PI/2 BPSK	0.277	24.43
		23M0G7D	QPSK	0.275	24.40
		23M1W7D	16QAM	0.222	23.47
		23M0W7D	64QAM	0.154	21.88
		23M0W7D	256QAM	0.097	19.86
Sub6 n66 (30)	1725.0 – 1765.0	28M9G7D	PI/2 BPSK	0.275	24.39
		28M9G7D	QPSK	0.270	24.32
		28M8W7D	16QAM	0.210	23.23
		28M8W7D	64QAM	0.150	21.76
		28M8W7D	256QAM	0.094	19.75
Sub6 n66 (40)	1730.0 – 1760.0	38M9G7D	PI/2 BPSK	0.278	24.44
		39M0G7D	QPSK	0.277	24.43
		38M8W7D	16QAM	0.225	23.52
		39M0W7D	64QAM	0.158	21.99
		38M8W7D	256QAM	0.100	20.02

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

Please refer to the [2G3G] Test Report.

2.2. MEASURING INSTRUMENT CALIBRATION

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

2.3. TEST FACILITY

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

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

2.4. EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to ANSI/USEMCSC C63.2-2023, "American National Standard for Specifications of Electromagnetic Interference and Field Strength Measuring Instrumentation in the Frequency Range 9 kHz to 40 GHz".

3. DESCRIPTION OF TESTS

3.1 TEST PROCEDURE

Test Description	Test Procedure Used
Occupied Bandwidth	- KDB 971168 D01 v03r01 – Section 4.3 - ANSI C63.26-2015 – Section 5.4.4
Band Edge	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Spurious and Harmonic Emissions at Antenna Terminal	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Conducted Output Power	- KDB 971168 D01 v03r01 - Section 5.2.4 - ANSI C63.26-2015 - Section 5.2.1 & 5.2.4.2
Peak- to- Average Ratio	- KDB 971168 D01 v03r01 – Section 5.7 - ANSI C63.26-2015 – Section 5.2.3.4
Frequency stability	- ANSI C63.26-2015 – Section 5.6
Radiated Power	- ANSI C63.26-2015 – Section 5.2.4.4 - KDB 971168 D01 v03r01 – Section 5.8
Radiated Spurious and Harmonic Emissions	- ANSI C63.26-2015 – Section 5.5.3 - KDB 971168 D01 v03r01 – Section 5.8

3.2 RADIATED POWER

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

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

Test Settings

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

Test Note

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

The power is calculated by the following formula;

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

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

3. The maximum value is calculated by adding the forward power to the calibrated source plus its appropriate gain value.

These steps are repeated with the receiving antenna in both vertical and horizontal polarization. the difference between the gain of the horn and an isotropic antenna are taken into consideration

4. The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
5. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

3.3 RADIATED SPURIOUS EMISSIONS

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method.

Test Settings

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

Test Note

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

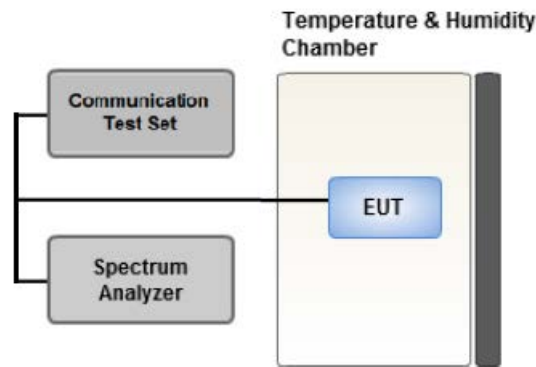
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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

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

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

3.4 PEAK- TO- AVERAGE RATIO



Test setup

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)

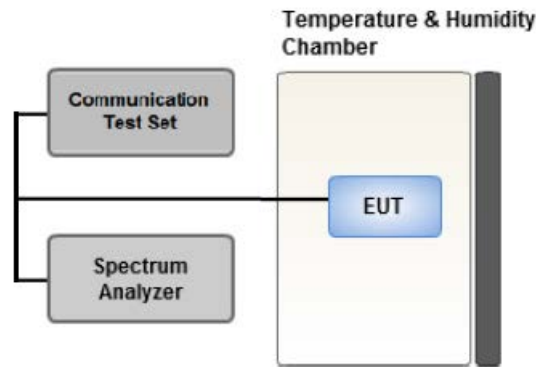
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

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.

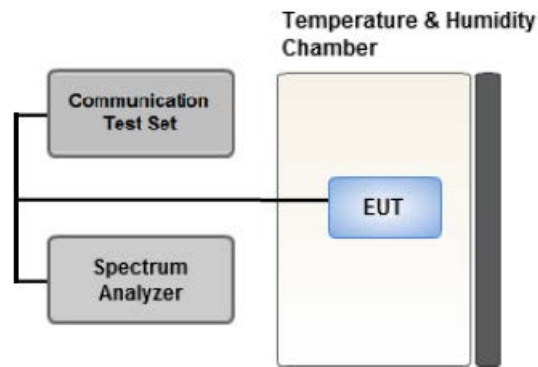
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5 % of the 99 % occupied bandwidth observed in Step 7

3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

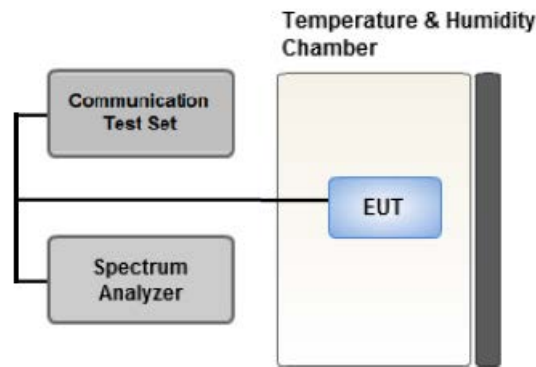
Test Overview

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

Test Settings

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

3.7 BAND 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 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. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW > 1 % of the emission bandwidth
4. VBW > 3 x RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
7. Trace mode = trace average
8. Sweep Time > (Number of Points) $\times$ (Symbol Period)
9. The trace was allowed to stabilize

Test Notes

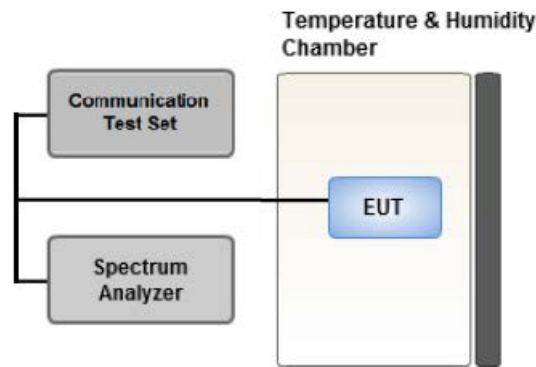
According to FCC 22.917, 24.238, 27.53 specified that power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

All measurements were done at 2 channels (low and high operational frequency range.)

The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

Where $\text{Margin} < 1$ 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)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
(Worst case: DFT-S-OFDM)
- 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 (Main 1 ANT), NSA_30A-n66A (Sub2 ANT)
Mode : Stand alone, Stand alone + External accessories (Earphone, AC adapter, etc)
Worst case : Stand alone
- All simultaneous transmission scenarios of operation were investigated, and the test results showed no additional significant emissions relative to the least restrictive limit were observed.
Therefore, only the worst case(stand-alone) results were reported.
- Radiated Spurious emissions are measured while operating in EN-DC mode with Sub 6 NR carrier as well as an LTE carrier (anchor).
All EN-DC mode of operation (=anchor) were investigated and the test results were measured No Peak Found.
The test results which are attenuated more than 20 dB below the permissible value, so it was not reported.
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.
- In the case of radiated spurious emissions, all bandwidth of operation was investigated and the worst case bandwidth results are reported. (Worst case : 40 MHz(Main 1 ANT), 5 MHz(Sub 2 ANT))
- SM-A176U & additional models were tested and the worst case results are reported.
(Worst case : SM-A176U)

[Main 1 ANT Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Equivalent Isotropic Radiated Power	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	See Section 8.1		X
Radiated Spurious and Harmonic Emissions	PI/2 BPSK	See Section 8.2		Y

[Sub 2 ANT Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Equivalent Isotropic Radiated Power	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	See Section 9.1		X
Radiated Spurious and Harmonic Emissions	PI/2 BPSK	See Section 9.2		X

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 (Main 1 ANT), NSA_30A-n66A (Sub2 ANT)
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.
- SM-A176U & additional models were tested and the worst case results are reported.
(Worst case : SM-A176U)

[Worst case]

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

4. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacture	Serial No.	Due to Calibration	Calibration Interval
Precision Dipole Antenna	UHAP	Schwarzbeck	01273	03/10/2026	Biennial
Precision Dipole Antenna	UHAP	Schwarzbeck	01274	03/10/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	02289	02/14/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	9120D-1299	04/17/2026	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/23/2027	Biennial
Loop Antenna(9 kHz~30 MHz)	FMZB1513	Rohde & Schwarz	1513-175	01/06/2027	Biennial
Bilog Antenna	VULB9160	Schwarzbeck	3150	03/05/2027	Biennial
Hybrid Antenna	VULB9160	Schwarzbeck	760	02/17/2027	Biennial
RF Switching System	FBSR-06B (1G HPF + LNA)	T&M SYSTEM	F3L1	05/08/2026	Annual
RF Switching System	FBSR-06B (3G HPF + LNA)	T&M SYSTEM	F3L2	05/08/2026	Annual
RF Switching System	FBSR-06B (6G HPF + LNA)	T&M SYSTEM	F3L3	05/08/2026	Annual
RF Switching System	FBSR-06B (LNA)	T&M SYSTEM	F3L4	05/08/2026	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/07/2025	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/19/2026	Annual
DC Power Supply	E3632A	Hewlett Packard	MY40004427	08/11/2026	Annual
Power Splitter(DC~26.5 GHz)	11667B	Hewlett Packard	11275	02/04/2026	Annual
Chamber	SU-642	ESPEC	93008124	02/11/2026	Annual
Signal Analyzer(10 Hz~26.5 GHz)	N9020A	Agilent	MY51110063	03/21/2026	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/10/2026	Annual
Spectrum Analyzer (10 Hz~40 GHz)	FSV40	REOHDE & SCHWARZ	101436	02/04/2026	Annual
Signal & Spectrum Analyzer (2 Hz~67 GHz)	FSW67	REOHDE & SCHWARZ	101736	05/27/2026	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	07/29/2026	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/14/2026	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6262302511	05/08/2026	Annual
Signal Analyzer(5 Hz~40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/14/2026	Annual
UXM 5G Wireless Test Platform	E7515B	KEYSIGHT	MY60101126	02/10/2026	Annual
4-Way Divider	ZC4PD-K1844+	Mini-Circuits	942907	09/05/2026	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/22/2026	Annual
Standard P5G Solution	Indoor RU: WEH37-TM24 USLP: SYS-111E-FWTR	Indoor RU: Wave Electronic USLP: SUPER MICRO COMPUTER,INC	Indoor RU: 1DT012249B00009 USLP: C515BAN30A20232	-	-
Automation Software	FCC 2G/3G/4G Conducted	HCT CO., LTD	-	-	-
Automation Software	FCC NR Conducted	HCT CO., LTD	-	-	-
Automation Software	FCC LTE Radiated	HCT CO., LTD	-	-	-
Automation Software	FCC NR Radiated	HCT CO., LTD	-	-	-

Note:

- Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
- 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_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

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

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

6. SUMMARY OF TEST RESULTS

-. The decision rule applies 'simple acceptance'

6.1 Test Condition: Conducted Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Occupied Bandwidth	§ 2.1049	N/A	PASS
Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	§ 2.1051, § 27.53(h)	< 43 + 10log10 (P[Watts]) at Band Edge and for all out-of-band emissions	PASS
Conducted Output Power	§ 2.1046	N/A	<u>Note1</u>
Peak- to- Average Ratio	§ 27.50(d)(5)	< 13 dB	PASS
Frequency stability / variation of ambient temperature	§ 2.1055, § 27.54	Emission must remain in band	PASS

Note:

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

6.2 Test Condition: Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Equivalent Isotropic Radiated Power	§ 27.50(d)(4)	< 1 Watts max. EIRP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1053, § 27.53(h)	< 43 + 10log10 (P[Watts]) for all out-of band emissions	PASS

Note:

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

7. SAMPLE CALCULATION

7.1 ERP Sample Calculation

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

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

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

7.2 EIRP Sample Calculation

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

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

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

7.3. Emission Designator

GSM Emission Designator

Emission Designator = 249KGXW
GSM BW = 249 kHz
G = Phase Modulation
X = Cases not otherwise covered
W = Combination (Audio/Data)

EDGE Emission Designator

Emission Designator = 249KG7W
GSM BW = 249 kHz
G = Phase Modulation
7 = Quantized/Digital Info
W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W
WCDMA BW = 4.17 MHz
F = Frequency Modulation
9 = Composite Digital Info
W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 4M48G7D
LTE BW = 4.48 MHz
G = Phase Modulation
7 = Quantized/Digital Info
D = Data transmission; telemetry; telecommand

QAM Modulation

Emission Designator = 4M48W7D
LTE BW = 4.48 MHz
W = Amplitude/Angle Modulated
7 = Quantized/Digital Info
D = Data transmission; telemetry; telecommand

8. TEST DATA (Main 1 ANT)

8.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1712.5	Sub6 n66/ 5 MHz [15 kHz]	PI/2 BPSK	-20.18	13.06	10.12	2.06	H	< 1.00	0.129	21.12	1	23
		QPSK	-20.29	12.95	10.12	2.06	H		0.126	21.01		
		16-QAM	-21.23	12.01	10.12	2.06	H		0.102	20.07		
		64-QAM	-22.85	10.39	10.12	2.06	H		0.070	18.45		
		256-QAM	-24.80	8.44	10.12	2.06	H		0.045	16.50		
1745.0		PI/2 BPSK	-19.64	13.50	10.43	2.08	H		0.153	21.85	1	23
		QPSK	-19.65	13.49	10.43	2.08	H		0.153	21.84		
		16-QAM	-20.61	12.53	10.43	2.08	H		0.122	20.88		
		64-QAM	-22.23	10.91	10.43	2.08	H		0.084	19.26		
		256-QAM	-24.08	9.06	10.43	2.08	H		0.055	17.41		
1777.5		PI/2 BPSK	-18.17	14.96	10.50	2.12	H		0.216	23.34	1	23
		QPSK	-18.18	14.95	10.50	2.12	H		0.215	23.33		
		16-QAM	-19.16	13.97	10.50	2.12	H		0.172	22.35		
		64-QAM	-20.72	12.41	10.50	2.12	H		0.120	20.79		
		256-QAM	-22.61	10.52	10.50	2.12	H		0.078	18.90		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1715.0	Sub6 n66/ 10 MHz [15 kHz]	PI/2 BPSK	-20.09	13.15	10.12	2.06	H	< 1.00	0.132	21.21	1	50
		QPSK	-20.10	13.14	10.12	2.06	H		0.132	21.20		
		16-QAM	-21.02	12.22	10.12	2.06	H		0.107	20.28		
		64-QAM	-22.73	10.51	10.12	2.06	H		0.072	18.57		
		256-QAM	-24.55	8.69	10.12	2.06	H		0.047	16.75		
1745.0		PI/2 BPSK	-19.37	13.77	10.43	2.08	H		0.163	22.12	1	50
		QPSK	-19.43	13.71	10.43	2.08	H		0.161	22.06		
		16-QAM	-20.37	12.77	10.43	2.08	H		0.129	21.12		
		64-QAM	-21.89	11.25	10.43	2.08	H		0.091	19.60		
		256-QAM	-23.83	9.31	10.43	2.08	H		0.058	17.66		
1775.0		PI/2 BPSK	-18.16	14.92	10.49	2.11	H		0.214	23.30	1	50
		QPSK	-18.17	14.91	10.49	2.11	H		0.213	23.29		
		16-QAM	-19.18	13.90	10.49	2.11	H		0.169	22.28		
		64-QAM	-20.76	12.32	10.49	2.11	H		0.117	20.70		
		256-QAM	-22.59	10.49	10.49	2.11	H		0.077	18.87		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1717.5	Sub6 n66/ 15 MHz [15 kHz]	PI/2 BPSK	-19.99	13.21	10.18	2.07	H	< 1.00	0.136	21.32	1	77
		QPSK	-20.01	13.19	10.18	2.07	H		0.135	21.30		
		16-QAM	-20.91	12.29	10.18	2.07	H		0.110	20.40		
		64-QAM	-22.55	10.65	10.18	2.07	H		0.075	18.76		
		256-QAM	-24.42	8.78	10.18	2.07	H		0.049	16.89		
1745.0		PI/2 BPSK	-19.43	13.71	10.43	2.08	H		0.161	22.06	1	77
		QPSK	-19.46	13.68	10.43	2.08	H		0.160	22.03		
		16-QAM	-20.49	12.65	10.43	2.08	H		0.126	21.00		
		64-QAM	-22.00	11.14	10.43	2.08	H		0.089	19.49		
		256-QAM	-23.95	9.19	10.43	2.08	H		0.057	17.54		
1772.5		PI/2 BPSK	-18.13	14.95	10.49	2.11	H		0.215	23.33	1	77
		QPSK	-18.16	14.92	10.49	2.11	H		0.214	23.30		
		16-QAM	-19.19	13.89	10.49	2.11	H		0.169	22.27		
		64-QAM	-20.56	12.52	10.49	2.11	H		0.123	20.90		
		256-QAM	-22.70	10.38	10.49	2.11	H		0.075	18.76		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1720.0	Sub6 n66/ 20 MHz [15 kHz]	PI/2 BPSK	-20.06	13.14	10.18	2.07	H	< 1.00	0.133	21.25	1	104
		QPSK	-20.07	13.13	10.18	2.07	H		0.133	21.24		
		16-QAM	-21.05	12.15	10.18	2.07	H		0.106	20.26		
		64-QAM	-22.49	10.71	10.18	2.07	H		0.076	18.82		
		256-QAM	-24.54	8.66	10.18	2.07	H		0.048	16.77		
1745.0		PI/2 BPSK	-19.24	13.90	10.43	2.08	H		0.168	22.25	1	104
		QPSK	-19.25	13.89	10.43	2.08	H		0.167	22.24		
		16-QAM	-20.24	12.90	10.43	2.08	H		0.133	21.25		
		64-QAM	-21.75	11.39	10.43	2.08	H		0.094	19.74		
		256-QAM	-23.69	9.45	10.43	2.08	H		0.060	17.80		
1770.0		PI/2 BPSK	-18.11	14.93	10.49	2.11	H		0.214	23.31	1	104
		QPSK	-18.12	14.92	10.49	2.11	H		0.214	23.30		
		16-QAM	-19.19	13.85	10.49	2.11	H		0.167	22.23		
		64-QAM	-20.55	12.49	10.49	2.11	H		0.122	20.87		
		256-QAM	-22.66	10.38	10.49	2.11	H		0.075	18.76		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1722.5	Sub6 n66/ 25 MHz [15 kHz]	PI/2 BPSK	-19.75	13.48	10.23	2.07	H	< 1.00	0.146	21.64	1	131
		QPSK	-19.78	13.45	10.23	2.07	H		0.145	21.61		
		16-QAM	-20.88	12.35	10.23	2.07	H		0.112	20.51		
		64-QAM	-22.42	10.81	10.23	2.07	H		0.079	18.97		
		256-QAM	-24.35	8.88	10.23	2.07	H		0.051	17.04		
1745.0		PI/2 BPSK	-18.99	14.15	10.43	2.08	H		0.178	22.50	1	131
		QPSK	-19.03	14.11	10.43	2.08	H		0.176	22.46		
		16-QAM	-20.08	13.06	10.43	2.08	H		0.138	21.41		
		64-QAM	-21.49	11.65	10.43	2.08	H		0.100	20.00		
		256-QAM	-23.49	9.65	10.43	2.08	H		0.063	18.00		
1767.5		PI/2 BPSK	-18.08	14.96	10.49	2.11	H		0.216	23.34	1	131
		QPSK	-18.10	14.94	10.49	2.11	H		0.215	23.32		
		16-QAM	-19.09	13.95	10.49	2.11	H		0.171	22.33		
		64-QAM	-20.65	12.39	10.49	2.11	H		0.119	20.77		
		256-QAM	-22.54	10.50	10.49	2.11	H		0.077	18.88		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1725.0	Sub6 n66/ 30 MHz [15 kHz]	PI/2 BPSK	-19.63	13.60	10.23	2.07	H	< 1.00	0.150	21.76	1	158
		QPSK	-19.66	13.57	10.23	2.07	H		0.149	21.73		
		16-QAM	-20.60	12.63	10.23	2.07	H		0.120	20.79		
		64-QAM	-22.24	10.99	10.23	2.07	H		0.082	19.15		
		256-QAM	-24.13	9.10	10.23	2.07	H		0.053	17.26		
1745.0		PI/2 BPSK	-19.17	13.97	10.43	2.08	H		0.171	22.32	1	158
		QPSK	-19.18	13.96	10.43	2.08	H		0.170	22.31		
		16-QAM	-20.21	12.93	10.43	2.08	H		0.134	21.28		
		64-QAM	-21.78	11.36	10.43	2.08	H		0.093	19.71		
		256-QAM	-23.62	9.52	10.43	2.08	H		0.061	17.87		
1765.0		PI/2 BPSK	-18.03	15.06	10.48	2.10	H		0.221	23.44	1	158
		QPSK	-18.06	15.03	10.48	2.10	H		0.219	23.41		
		16-QAM	-19.16	13.93	10.48	2.10	H		0.170	22.31		
		64-QAM	-20.63	12.46	10.48	2.10	H		0.121	20.84		
		256-QAM	-22.61	10.48	10.48	2.10	H		0.077	18.86		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1730.0	Sub6 n66/ 40 MHz [15 kHz]	PI/2 BPSK	-18.85	14.40	10.29	2.07	H	< 1.00	0.183	22.62	1	214
		QPSK	-18.87	14.38	10.29	2.07	H		0.182	22.60		
		16-QAM	-19.89	13.36	10.29	2.07	H		0.144	21.58		
		64-QAM	-21.45	11.80	10.29	2.07	H		0.100	20.02		
		256-QAM	-23.20	10.05	10.29	2.07	H		0.067	18.27		
1745.0		PI/2 BPSK	-18.78	14.36	10.43	2.08	H		0.187	22.71	1	214
		QPSK	-18.82	14.32	10.43	2.08	H		0.185	22.67		
		16-QAM	-19.74	13.40	10.43	2.08	H		0.149	21.75		
		64-QAM	-21.29	11.85	10.43	2.08	H		0.105	20.20		
		256-QAM	-23.40	9.74	10.43	2.08	H		0.064	18.09		
1760.0		PI/2 BPSK	-18.08	15.06	10.48	2.09	H		0.221	23.45	1	214
		QPSK	-18.11	15.03	10.48	2.09	H		0.220	23.42		
		16-QAM	-19.10	14.04	10.48	2.09	H		0.175	22.43		
		64-QAM	-20.49	12.65	10.48	2.09	H		0.127	21.04		
		256-QAM	-22.66	10.48	10.48	2.09	H		0.077	18.87		

8.2 RADIATED SPURIOUS EMISSIONS

NR Band:	<u>N66</u>
Bandwidth:	<u>40 MHz</u>
Modulation:	<u>PI/2 BPSK</u>
Distance:	<u>3 meters</u>
SCS:	<u>15 kHz</u>

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
346000 (1730.0)	3,460.00	-60.77	12.00	-60.97	3.02	H	-51.99	-13.00	1	214
	5,190.00	-62.37	11.63	-55.80	3.84	H	-48.01	-13.00		
	6,920.00	-63.46	11.16	-50.30	4.54	H	-43.68	-13.00		
349000 (1745.0)	3,490.00	-59.05	12.04	-59.56	3.06	H	-50.58	-13.00	1	214
	5,235.00	-62.82	11.76	-56.44	3.86	H	-48.54	-13.00		
	6,980.00	-63.50	11.16	-49.81	4.55	H	-43.20	-13.00		
352000 (1760.0)	3,520.00	-60.53	12.04	-61.37	3.08	H	-52.41	-13.00	1	214
	5,280.00	-59.86	11.88	-53.16	3.88	H	-45.16	-13.00		
	7,040.00	-62.47	11.01	-48.11	4.57	H	-41.67	-13.00		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)	Limit (dB)
Sub6 n66	5 MHz	1745.0	BPSK	25	0	4.32	13.00
			QPSK			5.39	
			16-QAM			5.84	
			64-QAM			6.14	
			256-QAM			6.60	
	10 MHz		BPSK	50		4.60	
			QPSK			5.46	
			16-QAM			5.95	
			64-QAM			6.27	
			256-QAM			6.72	
	15 MHz		BPSK	75		4.30	
			QPSK			5.39	
			16-QAM			5.96	
			64-QAM			6.29	
			256-QAM			6.82	
	20 MHz		BPSK	100		4.33	
			QPSK			5.44	
			16-QAM			5.99	
			64-QAM			6.26	
			256-QAM			6.88	
	25 MHz		BPSK	128		4.38	
			QPSK			5.53	
			16-QAM			6.03	
			64-QAM			6.36	
			256-QAM			6.71	
	30 MHz		BPSK	160		4.43	
			QPSK			5.45	
			16-QAM			6.08	
			64-QAM			6.29	
			256-QAM			6.76	
	40 MHz		BPSK	216		4.42	
			QPSK			5.48	
			16-QAM			6.13	
			64-QAM			6.39	
			256-QAM			6.71	

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 63 ~ 97.

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n66	5 MHz	1745.0	BPSK	25	0	4.6563
			QPSK			4.6846
			16-QAM			4.6784
			64-QAM			4.6747
			256-QAM			4.7618
	10 MHz		BPSK	50		8.9887
			QPSK			8.9695
			16-QAM			8.9846
			64-QAM			8.9953
			256-QAM			8.9767
	15 MHz		BPSK	75		13.481
			QPSK			13.466
			16-QAM			13.451
			64-QAM			13.453
			256-QAM			13.460
	20 MHz		BPSK	100		17.945
			QPSK			17.942
			16-QAM			17.927
			64-QAM			17.944
			256-QAM			17.933
	25 MHz		BPSK	128		22.973
			QPSK			22.964
			16-QAM			22.949
			64-QAM			22.991
			256-QAM			22.984
	30 MHz		BPSK	160		28.766
			QPSK			28.719
			16-QAM			28.678
			64-QAM			28.755
			256-QAM			28.609
	40 MHz		BPSK	216		38.809
			QPSK			38.748
			16-QAM			38.647
			64-QAM			38.750
			256-QAM			38.763

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 98 ~ 132.

8.5 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
Sub6 n66	5	1712.5	9.1526	30.315	-63.251	-32.936	-13.00
		1745.0	5.7229	30.315	-63.579	-33.264	
		1777.5	5.1446	30.315	-64.085	-33.770	
	10	1715.0	8.8634	30.315	-61.841	-31.526	
		1745.0	5.9721	30.315	-63.732	-33.417	
		1775.0	7.1486	30.315	-63.056	-32.741	
	15	1717.5	9.1526	30.315	-63.708	-33.393	
		1745.0	9.0828	30.315	-62.745	-32.430	
		1772.5	5.2244	30.315	-62.594	-32.279	
	20	1720.0	9.7607	30.315	-62.848	-32.533	
		1745.0	4.8555	29.722	-63.189	-33.467	
		1770.0	9.9502	30.315	-63.782	-33.467	
	25	1722.5	9.7208	30.315	-63.426	-33.111	
		1745.0	8.9133	30.315	-63.153	-32.838	
		1767.5	9.1326	30.315	-63.661	-33.346	
	30	1725.0	9.1625	30.315	-63.565	-33.250	
		1745.0	9.1924	30.315	-63.965	-33.650	
		1765.0	9.7009	30.315	-63.543	-33.228	
	40	1730.0	9.1526	30.315	-64.009	-33.694	
		1745.0	3.8286	29.722	-62.316	-32.594	
		1760.0	8.8634	30.315	-62.667	-32.352	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 133 ~ 174.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
3. Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.012
1 – 5	29.722
5 – 10	30.315
10 – 15	30.840
15 – 20	31.213
Above 20	31.855

8.6 BAND EDGE

- Plots of the EUT's Band Edge are shown Page 175 ~ 216.

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ▣ BandWidth: 5 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1712.5	100 %	+20(Ref)	1712 500 004	0.0	0.000 000	0.000
	100 %	-30	1712 500 007	3.0	0.000 000	0.002
	100 %	-20	1712 500 000	-3.8	0.000 000	-0.002
	100 %	-10	1712 499 999	-4.5	0.000 000	-0.003
	100 %	0	1712 500 000	-3.5	0.000 000	-0.002
	100 %	+10	1712 500 002	-1.6	0.000 000	-0.001
	100 %	+30	1712 500 003	-0.3	0.000 000	0.000
	100 %	+40	1712 500 002	-1.3	0.000 000	-0.001
	100 %	+50	1712 500 003	-0.3	0.000 000	0.000
	Batt. Endpoint	+20	1712 500 001	-2.1	0.000 000	-0.001
1777.5	100 %	+20(Ref)	1777 499 999	0.0	0.000 000	0.000
	100 %	-30	1777 499 999	0.2	0.000 000	0.000
	100 %	-20	1777 499 998	-0.8	0.000 000	0.000
	100 %	-10	1777 499 999	0.2	0.000 000	0.000
	100 %	0	1777 500 000	1.2	0.000 000	0.001
	100 %	+10	1777 499 998	-0.4	0.000 000	0.000
	100 %	+30	1777 500 000	1.0	0.000 000	0.001
	100 %	+40	1777 499 998	-0.3	0.000 000	0.000
	100 %	+50	1777 499 999	0.3	0.000 000	0.000
	Batt. Endpoint	+20	1777 500 000	0.8	0.000 000	0.000

- ▣ BandWidth: 10 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1715.0	100 %	+20(Ref)	1715 000 002	0.0	0.000 000	0.000
	100 %	-30	1715 000 000	-1.7	0.000 000	-0.001
	100 %	-20	1715 000 004	1.7	0.000 000	0.001
	100 %	-10	1715 000 000	-1.8	0.000 000	-0.001
	100 %	0	1715 000 002	0.0	0.000 000	0.000
	100 %	+10	1715 000 001	-0.7	0.000 000	0.000
	100 %	+30	1714 999 999	-2.4	0.000 000	-0.001
	100 %	+40	1715 000 003	1.4	0.000 000	0.001
	100 %	+50	1714 999 999	-3.2	0.000 000	-0.002
	Batt. Endpoint	+20	1715 000 000	-1.4	0.000 000	-0.001
1775.0	100 %	+20(Ref)	1775 000 000	0.0	0.000 000	0.000
	100 %	-30	1775 000 001	0.4	0.000 000	0.000
	100 %	-20	1775 000 001	0.2	0.000 000	0.000
	100 %	-10	1775 000 001	0.3	0.000 000	0.000
	100 %	0	1775 000 000	-0.5	0.000 000	0.000
	100 %	+10	1775 000 001	0.3	0.000 000	0.000
	100 %	+30	1775 000 001	0.4	0.000 000	0.000
	100 %	+40	1775 000 000	-0.2	0.000 000	0.000
	100 %	+50	1775 000 000	-0.1	0.000 000	0.000
	Batt. Endpoint	+20	1775 000 000	-0.1	0.000 000	0.000

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1717.5	100 %	+20(Ref)	1717 500 000	0.0	0.000 000	0.000
	100 %	-30	1717 500 000	-0.4	0.000 000	0.000
	100 %	-20	1717 500 000	0.5	0.000 000	0.000
	100 %	-10	1717 500 000	-0.5	0.000 000	0.000
	100 %	0	1717 500 000	0.4	0.000 000	0.000
	100 %	+10	1717 500 000	0.2	0.000 000	0.000
	100 %	+30	1717 500 000	0.4	0.000 000	0.000
	100 %	+40	1717 500 000	0.0	0.000 000	0.000
	100 %	+50	1717 499 999	-0.7	0.000 000	0.000
	Batt. Endpoint	+20	1717 499 999	-0.7	0.000 000	0.000
1772.5	100 %	+20(Ref)	1772 500 001	0.0	0.000 000	0.000
	100 %	-30	1772 500 003	1.8	0.000 000	0.001
	100 %	-20	1772 500 003	1.7	0.000 000	0.001
	100 %	-10	1772 500 003	1.6	0.000 000	0.001
	100 %	0	1772 500 001	0.5	0.000 000	0.000
	100 %	+10	1772 500 002	0.9	0.000 000	0.000
	100 %	+30	1772 500 003	2.0	0.000 000	0.001
	100 %	+40	1772 500 002	0.9	0.000 000	0.000
	100 %	+50	1772 500 002	1.3	0.000 000	0.001
	Batt. Endpoint	+20	1772 500 002	1.6	0.000 000	0.001

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1720.0	100 %	+20(Ref)	1720 000 000	0.0	0.000 000	0.000
	100 %	-30	1720 000 001	0.8	0.000 000	0.000
	100 %	-20	1720 000 001	0.3	0.000 000	0.000
	100 %	-10	1720 000 000	-0.9	0.000 000	-0.001
	100 %	0	1720 000 000	-0.2	0.000 000	0.000
	100 %	+10	1720 000 001	0.2	0.000 000	0.000
	100 %	+30	1720 000 001	0.3	0.000 000	0.000
	100 %	+40	1720 000 000	-0.6	0.000 000	0.000
	100 %	+50	1720 000 000	-0.3	0.000 000	0.000
	Batt. Endpoint	+20	1719 999 999	-1.0	0.000 000	-0.001
1770.0	100 %	+20(Ref)	1769 999 999	0.0	0.000 000	0.000
	100 %	-30	1769 999 999	0.0	0.000 000	0.000
	100 %	-20	1769 999 999	-0.2	0.000 000	0.000
	100 %	-10	1769 999 999	0.0	0.000 000	0.000
	100 %	0	1769 999 998	-0.7	0.000 000	0.000
	100 %	+10	1769 999 998	-0.9	0.000 000	-0.001
	100 %	+30	1769 999 999	-0.6	0.000 000	0.000
	100 %	+40	1769 999 999	0.2	0.000 000	0.000
	100 %	+50	1769 999 998	-1.2	0.000 000	-0.001
	Batt. Endpoint	+20	1769 999 999	-0.3	0.000 000	0.000

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1722.5	100 %	+20(Ref)	1722 500 000	0.0	0.000 000	0.000
	100 %	-30	1722 500 000	0.4	0.000 000	0.000
	100 %	-20	1722 500 000	0.0	0.000 000	0.000
	100 %	-10	1722 499 999	-0.9	0.000 000	0.000
	100 %	0	1722 499 999	-0.3	0.000 000	0.000
	100 %	+10	1722 499 999	-0.4	0.000 000	0.000
	100 %	+30	1722 499 999	-0.6	0.000 000	0.000
	100 %	+40	1722 499 999	-0.2	0.000 000	0.000
	100 %	+50	1722 499 999	-0.3	0.000 000	0.000
	Batt. Endpoint	+20	1722 499 999	-0.5	0.000 000	0.000
1767.5	100 %	+20(Ref)	1767 500 000	0.0	0.000 000	0.000
	100 %	-30	1767 500 001	0.4	0.000 000	0.000
	100 %	-20	1767 499 999	-0.8	0.000 000	0.000
	100 %	-10	1767 500 000	-0.4	0.000 000	0.000
	100 %	0	1767 500 000	-0.5	0.000 000	0.000
	100 %	+10	1767 500 001	0.7	0.000 000	0.000
	100 %	+30	1767 500 001	1.0	0.000 000	0.001
	100 %	+40	1767 500 001	1.0	0.000 000	0.001
	100 %	+50	1767 500 000	0.0	0.000 000	0.000
	Batt. Endpoint	+20	1767 500 000	-0.5	0.000 000	0.000

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1725.0	100 %	+20(Ref)	1725 000 000	0.0	0.000 000	0.000
	100 %	-30	1724 999 999	-0.9	0.000 000	-0.001
	100 %	-20	1725 000 000	0.2	0.000 000	0.000
	100 %	-10	1725 000 000	0.0	0.000 000	0.000
	100 %	0	1725 000 000	0.2	0.000 000	0.000
	100 %	+10	1725 000 000	0.4	0.000 000	0.000
	100 %	+30	1725 000 000	-0.2	0.000 000	0.000
	100 %	+40	1725 000 000	-0.3	0.000 000	0.000
	100 %	+50	1724 999 999	-0.4	0.000 000	0.000
	Batt. Endpoint	+20	1725 000 000	0.5	0.000 000	0.000
1765.0	100 %	+20(Ref)	1765 000 000	0.0	0.000 000	0.000
	100 %	-30	1765 000 000	-0.1	0.000 000	0.000
	100 %	-20	1764 999 999	-0.7	0.000 000	0.000
	100 %	-10	1764 999 999	-0.5	0.000 000	0.000
	100 %	0	1765 000 000	-0.2	0.000 000	0.000
	100 %	+10	1765 000 000	0.0	0.000 000	0.000
	100 %	+30	1764 999 999	-0.6	0.000 000	0.000
	100 %	+40	1764 999 999	-0.6	0.000 000	0.000
	100 %	+50	1764 999 999	-1.0	0.000 000	-0.001
	Batt. Endpoint	+20	1765 000 000	-0.3	0.000 000	0.000

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1730.0	100 %	+20(Ref)	1730 000 000	0.0	0.000 000	0.000
	100 %	-30	1729 999 999	-1.0	0.000 000	-0.001
	100 %	-20	1730 000 000	0.1	0.000 000	0.000
	100 %	-10	1730 000 001	0.7	0.000 000	0.000
	100 %	0	1730 000 000	-0.6	0.000 000	0.000
	100 %	+10	1730 000 000	-0.1	0.000 000	0.000
	100 %	+30	1729 999 999	-0.7	0.000 000	0.000
	100 %	+40	1730 000 000	-0.5	0.000 000	0.000
	100 %	+50	1730 000 000	0.2	0.000 000	0.000
	Batt. Endpoint	+20	1729 999 999	-0.9	0.000 000	0.000
1760.0	100 %	+20(Ref)	1760 000 000	0.0	0.000 000	0.000
	100 %	-30	1759 999 999	-1.0	0.000 000	-0.001
	100 %	-20	1760 000 000	0.1	0.000 000	0.000
	100 %	-10	1760 000 000	-0.3	0.000 000	0.000
	100 %	0	1759 999 999	-0.5	0.000 000	0.000
	100 %	+10	1760 000 000	0.0	0.000 000	0.000
	100 %	+30	1760 000 000	0.0	0.000 000	0.000
	100 %	+40	1759 999 999	-0.4	0.000 000	0.000
	100 %	+50	1760 000 000	0.0	0.000 000	0.000
	Batt. Endpoint	+20	1760 000 000	-0.3	0.000 000	0.000

9. TEST DATA (Sub 2 ANT)

9.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1712.5	Sub6 n66/ 5 MHz [15 kHz]	PI/2 BPSK	-16.54	16.70	10.12	2.06	H	< 1.00	0.299	24.76	1	12
		QPSK	-16.60	16.64	10.12	2.06	H		0.295	24.70		
		16-QAM	-17.48	15.76	10.12	2.06	H		0.241	23.82		
		64-QAM	-18.99	14.25	10.12	2.06	H		0.170	22.31		
		256-QAM	-21.01	12.23	10.12	2.06	H		0.107	20.29		
1745.0		PI/2 BPSK	-17.49	15.65	10.43	2.08	H		0.251	24.00	1	1
		QPSK	-17.70	15.44	10.43	2.08	H		0.239	23.79		
		16-QAM	-18.44	14.70	10.43	2.08	H		0.202	23.05		
		64-QAM	-19.88	13.26	10.43	2.08	H		0.145	21.61		
		256-QAM	-21.93	11.21	10.43	2.08	H		0.090	19.56		
1777.5		PI/2 BPSK	-17.98	15.15	10.50	2.12	H		0.225	23.53	1	12
		QPSK	-18.10	15.03	10.50	2.12	H		0.219	23.41		
		16-QAM	-19.03	14.10	10.50	2.12	H		0.177	22.48		
		64-QAM	-20.50	12.63	10.50	2.12	H		0.126	21.01		
		256-QAM	-22.52	10.61	10.50	2.12	H		0.079	18.99		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1715.0		PI/2 BPSK	-16.69	16.55	10.12	2.06	H	< 1.00	0.289	24.61	1	26
		QPSK	-16.75	16.49	10.12	2.06	H		0.285	24.55		
		16-QAM	-17.75	15.49	10.12	2.06	H		0.226	23.55		
		64-QAM	-19.26	13.98	10.12	2.06	H		0.160	22.04		
		256-QAM	-21.40	11.84	10.12	2.06	H		0.098	19.90		
1745.0	Sub6 n66/ 10 MHz [15 kHz]	PI/2 BPSK	-17.27	15.87	10.43	2.08	H	< 1.00	0.264	24.22	1	1
		QPSK	-17.41	15.73	10.43	2.08	H		0.256	24.08		
		16-QAM	-18.36	14.78	10.43	2.08	H		0.206	23.13		
		64-QAM	-19.75	13.39	10.43	2.08	H		0.149	21.74		
		256-QAM	-21.83	11.31	10.43	2.08	H		0.092	19.66		
1775.0		PI/2 BPSK	-17.97	15.11	10.49	2.11	H	< 1.00	0.223	23.49	1	1
		QPSK	-18.05	15.03	10.49	2.11	H		0.219	23.41		
		16-QAM	-19.08	14.00	10.49	2.11	H		0.173	22.38		
		64-QAM	-20.58	12.50	10.49	2.11	H		0.122	20.88		
		256-QAM	-22.62	10.46	10.49	2.11	H		0.077	18.84		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1717.5	Sub6 n66/ 15 MHz [15 kHz]	PI/2 BPSK	-17.08	16.12	10.18	2.07	H	< 1.00	0.265	24.23	1	39
		QPSK	-17.09	16.11	10.18	2.07	H		0.264	24.22		
		16-QAM	-17.93	15.27	10.18	2.07	H		0.218	23.38		
		64-QAM	-19.29	13.91	10.18	2.07	H		0.159	22.02		
		256-QAM	-21.20	12.00	10.18	2.07	H		0.103	20.11		
1745.0		PI/2 BPSK	-17.39	15.75	10.43	2.08	H		0.257	24.10	1	1
		QPSK	-17.45	15.69	10.43	2.08	H		0.254	24.04		
		16-QAM	-18.49	14.65	10.43	2.08	H		0.200	23.00		
		64-QAM	-19.81	13.33	10.43	2.08	H		0.147	21.68		
		256-QAM	-21.74	11.40	10.43	2.08	H		0.094	19.75		
1772.5		PI/2 BPSK	-18.03	15.05	10.49	2.11	H		0.220	23.43	1	1
		QPSK	-18.07	15.01	10.49	2.11	H		0.218	23.39		
		16-QAM	-19.05	14.03	10.49	2.11	H		0.174	22.41		
		64-QAM	-20.55	12.53	10.49	2.11	H		0.123	20.91		
		256-QAM	-22.54	10.54	10.49	2.11	H		0.078	18.92		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1720.0	Sub6 n66/ 20 MHz [15 kHz]	PI/2 BPSK	-16.87	16.33	10.18	2.07	H	< 1.00	0.278	24.44	1	53
		QPSK	-16.88	16.32	10.18	2.07	H		0.277	24.43		
		16-QAM	-17.92	15.28	10.18	2.07	H		0.218	23.39		
		64-QAM	-19.34	13.86	10.18	2.07	H		0.157	21.97		
		256-QAM	-21.35	11.85	10.18	2.07	H		0.099	19.96		
1745.0		PI/2 BPSK	-17.27	15.87	10.43	2.08	H		0.264	24.22	1	1
		QPSK	-17.36	15.78	10.43	2.08	H		0.259	24.13		
		16-QAM	-18.33	14.81	10.43	2.08	H		0.207	23.16		
		64-QAM	-19.81	13.33	10.43	2.08	H		0.147	21.68		
		256-QAM	-21.76	11.38	10.43	2.08	H		0.094	19.73		
1770.0		PI/2 BPSK	-17.98	15.06	10.49	2.11	H		0.221	23.44	1	53
		QPSK	-18.05	14.99	10.49	2.11	H		0.217	23.37		
		16-QAM	-19.11	9.26	10.49	2.11	H		0.170	22.31		
		64-QAM	-20.59	12.45	10.49	2.11	H		0.121	20.83		
		256-QAM	-22.61	10.43	10.49	2.11	H		0.076	18.81		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1722.5	Sub6 n66/ 25 MHz [15 kHz]	PI/2 BPSK	-16.96	16.27	10.23	2.07	H	< 1.00	0.277	24.43	1	66
		QPSK	-16.99	16.24	10.23	2.07	H		0.275	24.40		
		16-QAM	-17.92	15.31	10.23	2.07	H		0.222	23.47		
		64-QAM	-19.51	13.72	10.23	2.07	H		0.154	21.88		
		256-QAM	-21.53	11.70	10.23	2.07	H		0.097	19.86		
1745.0		PI/2 BPSK	-17.16	15.98	10.43	2.08	H		0.271	24.33	1	1
		QPSK	-17.21	15.93	10.43	2.08	H		0.268	24.28		
		16-QAM	-18.30	14.84	10.43	2.08	H		0.209	23.19		
		64-QAM	-19.72	13.42	10.43	2.08	H		0.150	21.77		
		256-QAM	-21.68	11.46	10.43	2.08	H		0.096	19.81		
1767.5		PI/2 BPSK	-18.08	14.96	10.49	2.11	H		0.216	23.34	1	66
		QPSK	-18.15	14.89	10.49	2.11	H		0.212	23.27		
		16-QAM	-19.16	13.88	10.49	2.11	H		0.168	22.26		
		64-QAM	-20.62	12.42	10.49	2.11	H		0.120	20.80		
		256-QAM	-22.61	10.43	10.49	2.11	H		0.076	18.81		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1725.0	Sub6 n66/ 30 MHz [15 kHz]	PI/2 BPSK	-17.00	16.23	10.23	2.07	H	< 1.00	0.275	24.39	1	80
		QPSK	-17.07	16.16	10.23	2.07	H		0.270	24.32		
		16-QAM	-18.16	15.07	10.23	2.07	H		0.210	23.23		
		64-QAM	-19.63	13.60	10.23	2.07	H		0.150	21.76		
		256-QAM	-21.64	11.59	10.23	2.07	H		0.094	19.75		
1745.0		PI/2 BPSK	-17.26	15.88	10.43	2.08	H		0.265	24.23	1	1
		QPSK	-17.29	15.85	10.43	2.08	H		0.263	24.20		
		16-QAM	-18.38	14.76	10.43	2.08	H		0.205	23.11		
		64-QAM	-19.74	13.40	10.43	2.08	H		0.150	21.75		
		256-QAM	-21.81	11.33	10.43	2.08	H		0.093	19.68		
1765.0		PI/2 BPSK	-17.91	15.18	10.48	2.10	H		0.227	23.56	1	80
		QPSK	-17.93	15.16	10.48	2.10	H		0.226	23.54		
		16-QAM	-18.92	14.17	10.48	2.10	H		0.180	22.55		
		64-QAM	-20.27	12.82	10.48	2.10	H		0.132	21.20		
		256-QAM	-22.27	10.82	10.48	2.10	H		0.083	19.20		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
1730.0	Sub6 n66/ 40 MHz [15 kHz]	PI/2 BPSK	-17.21	16.04	10.29	2.07	H	< 1.00	0.267	24.26	1	108
		QPSK	-17.22	16.03	10.29	2.07	H		0.266	24.25		
		16-QAM	-18.30	14.95	10.29	2.07	H		0.207	23.17		
		64-QAM	-19.67	13.58	10.29	2.07	H		0.151	21.80		
		256-QAM	-21.83	11.42	10.29	2.07	H		0.092	19.64		
1745.0		PI/2 BPSK	-17.05	16.09	10.43	2.08	H		0.278	24.44	1	1
		QPSK	-17.06	16.08	10.43	2.08	H		0.277	24.43		
		16-QAM	-17.97	15.17	10.43	2.08	H		0.225	23.52		
		64-QAM	-19.50	13.64	10.43	2.08	H		0.158	21.99		
		256-QAM	-21.47	11.67	10.43	2.08	H		0.100	20.02		
1760.0		PI/2 BPSK	-17.26	15.88	10.48	2.09	H	0.267	24.27	1	1	
		QPSK	-17.42	15.72	10.48	2.09	H	0.258	24.11			
		16-QAM	-18.31	14.83	10.48	2.09	H	0.210	23.22			
		64-QAM	-19.78	13.36	10.48	2.09	H	0.150	21.75			
		256-QAM	-21.75	11.39	10.48	2.09	H	0.095	19.78			

9.2 RADIATED SPURIOUS EMISSIONS

NR Band:	<u>N66</u>
Bandwidth:	<u>5 MHz</u>
Modulation:	<u>PI/2 BPSK</u>
Distance:	<u>3 meters</u>
SCS:	<u>15 kHz</u>

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
342500 (1712.5)	3,425.00	-59.88	11.76	-59.96	3.03	V	-51.23	-13.00	1	12
	5,137.50	-62.64	11.45	-55.88	3.82	V	-48.25	-13.00		
	6,850.00	-63.66	11.04	-50.55	4.50	V	-44.01	-13.00		
349000 (1745.0)	3,490.00	-58.03	12.04	-58.54	3.06	V	-49.56	-13.00	1	1
	5,235.00	-58.96	11.76	-52.58	3.86	V	-44.68	-13.00		
	6,980.00	-64.35	11.16	-50.66	4.55	V	-44.05	-13.00		
355500 (1777.5)	3,555.00	-59.78	12.04	-60.85	3.09	V	-51.90	-13.00	1	12
	5,332.50	-61.25	11.92	-54.91	3.88	V	-46.87	-13.00		
	7,110.00	-62.34	10.80	-47.44	4.60	V	-41.24	-13.00		

9.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)	Limit (dB)
Sub6 n66	5 MHz	1745.0	BPSK	25	0	4.51	13.00
			QPSK			5.18	
			16-QAM			5.92	
			64-QAM			6.15	
			256-QAM			6.50	
	10 MHz		BPSK	50		4.91	
			QPSK			5.33	
			16-QAM			6.05	
			64-QAM			6.44	
			256-QAM			6.75	
	15 MHz		BPSK	75		4.11	
			QPSK			5.21	
			16-QAM			6.05	
			64-QAM			6.34	
			256-QAM			6.68	
	20 MHz		BPSK	100		5.27	
			QPSK			5.62	
			16-QAM			6.23	
			64-QAM			6.42	
			256-QAM			6.79	
	25 MHz		BPSK	128		4.30	
			QPSK			5.42	
			16-QAM			6.20	
			64-QAM			6.41	
			256-QAM			6.85	
	30 MHz		BPSK	160		5.05	
			QPSK			5.53	
			16-QAM			6.19	
			64-QAM			6.40	
			256-QAM			6.92	
	40 MHz		BPSK	216		4.92	
			QPSK			5.58	
			16-QAM			6.27	
			64-QAM			6.46	
			256-QAM			6.83	

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 218 ~ 252.

9.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n66	5 MHz	1745.0	BPSK	25	0	4.6803
			QPSK			4.6765
			16-QAM			4.6924
			64-QAM			4.6951
			256-QAM			4.6002
	10 MHz		BPSK	50		8.9873
			QPSK			8.9934
			16-QAM			8.9954
			64-QAM			9.0019
			256-QAM			8.9677
	15 MHz		BPSK	75		13.504
			QPSK			13.532
			16-QAM			13.467
			64-QAM			13.471
			256-QAM			13.414
	20 MHz		BPSK	100		17.996
			QPSK			17.965
			16-QAM			17.926
			64-QAM			17.919
			256-QAM			17.992
	25 MHz		BPSK	128		23.086
			QPSK			23.027
			16-QAM			23.053
			64-QAM			23.041
			256-QAM			23.016
	30 MHz		BPSK	160		28.904
			QPSK			28.892
			16-QAM			28.828
			64-QAM			28.779
			256-QAM			28.818
	40 MHz		BPSK	216		38.929
			QPSK			38.975
			16-QAM			38.812
			64-QAM			38.954
			256-QAM			38.847

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 253 ~ 287.

9.5 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
Sub6 n66	5	1712.5	3.8186	29.722	-63.458	-33.736	-13.00
		1745.0	8.0160	30.315	-63.959	-33.644	
		1777.5	4.0080	29.722	-63.988	-34.266	
	10	1715.0	9.4616	30.315	-63.276	-32.961	
		1745.0	5.1745	30.315	-62.859	-32.544	
		1775.0	9.9502	30.315	-63.377	-33.062	
	15	1717.5	9.1725	30.315	-63.515	-33.200	
		1745.0	3.7887	29.722	-62.468	-32.746	
		1772.5	4.5464	29.722	-63.797	-34.075	
	20	1720.0	9.2323	30.315	-63.200	-32.885	
		1745.0	4.0978	29.722	-63.793	-34.071	
		1770.0	8.0459	30.315	-63.634	-33.319	
	25	1722.5	3.2104	29.722	-63.082	-33.360	
		1745.0	6.0020	30.315	-63.737	-33.422	
		1767.5	3.7488	29.722	-63.712	-33.990	
	30	1725.0	9.9402	30.315	-62.947	-32.632	
		1745.0	4.9652	29.722	-63.590	-33.868	
		1765.0	9.3918	30.315	-62.606	-32.291	
	40	1730.0	4.0180	29.722	-63.277	-33.555	
		1745.0	9.6909	30.315	-63.553	-33.238	
		1760.0	4.0778	29.722	-63.305	-33.583	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 288 ~ 329.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
3. Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.012
1 – 5	29.722
5 – 10	30.315
10 – 15	30.840
15 – 20	31.213
Above 20	31.855

9.6 BAND EDGE

- Plots of the EUT's Band Edge are shown Page 330 ~ 371.

9.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ▣ BandWidth: 5 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1712.5	100 %	+20(Ref)	1712 499 996	0.0	0.000 000	0.000
	100 %	-30	1712 499 998	1.9	0.000 000	0.001
	100 %	-20	1712 499 992	-4.7	0.000 000	-0.003
	100 %	-10	1712 499 995	-1.8	0.000 000	-0.001
	100 %	0	1712 500 000	3.7	0.000 000	0.002
	100 %	+10	1712 499 996	-0.1	0.000 000	0.000
	100 %	+30	1712 499 993	-3.1	0.000 000	-0.002
	100 %	+40	1712 499 993	-4.0	0.000 000	-0.002
	100 %	+50	1712 499 993	-3.5	0.000 000	-0.002
	Batt. Endpoint	+20	1712 499 999	2.0	0.000 000	0.001
1777.5	100 %	+20(Ref)	1777 499 997	0.0	0.000 000	0.000
	100 %	-30	1777 499 996	-1.0	0.000 000	-0.001
	100 %	-20	1777 499 997	-0.5	0.000 000	0.000
	100 %	-10	1777 499 998	0.2	0.000 000	0.000
	100 %	0	1777 499 998	0.8	0.000 000	0.000
	100 %	+10	1777 499 997	-0.3	0.000 000	0.000
	100 %	+30	1777 499 999	1.4	0.000 000	0.001
	100 %	+40	1777 499 997	-0.5	0.000 000	0.000
	100 %	+50	1777 499 998	0.2	0.000 000	0.000
	Batt. Endpoint	+20	1777 499 999	1.2	0.000 000	0.001

- ▣ BandWidth: 10 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1715.0	100 %	+20(Ref)	1715 000 000	0.0	0.000 000	0.000
	100 %	-30	1714 999 998	-2.3	0.000 000	-0.001
	100 %	-20	1715 000 000	0.1	0.000 000	0.000
	100 %	-10	1715 000 004	3.6	0.000 000	0.002
	100 %	0	1715 000 004	3.3	0.000 000	0.002
	100 %	+10	1715 000 000	0.1	0.000 000	0.000
	100 %	+30	1715 000 003	2.6	0.000 000	0.002
	100 %	+40	1715 000 002	2.1	0.000 000	0.001
	100 %	+50	1715 000 003	2.5	0.000 000	0.001
	Batt. Endpoint	+20	1714 999 998	-1.9	0.000 000	-0.001
1775.0	100 %	+20(Ref)	1775 000 001	0.0	0.000 000	0.000
	100 %	-30	1774 999 999	-1.1	0.000 000	-0.001
	100 %	-20	1775 000 000	-0.5	0.000 000	0.000
	100 %	-10	1775 000 002	1.2	0.000 000	0.001
	100 %	0	1775 000 001	0.5	0.000 000	0.000
	100 %	+10	1775 000 001	0.9	0.000 000	0.000
	100 %	+30	1774 999 999	-1.1	0.000 000	-0.001
	100 %	+40	1775 000 001	0.2	0.000 000	0.000
	100 %	+50	1775 000 001	0.2	0.000 000	0.000
	Batt. Endpoint	+20	1775 000 002	1.3	0.000 000	0.001

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1717.5	100 %	+20(Ref)	1717 500 000	0.0	0.000 000	0.000
	100 %	-30	1717 499 999	-0.7	0.000 000	0.000
	100 %	-20	1717 499 999	-1.0	0.000 000	-0.001
	100 %	-10	1717 499 998	-1.6	0.000 000	-0.001
	100 %	0	1717 500 000	0.3	0.000 000	0.000
	100 %	+10	1717 500 000	0.0	0.000 000	0.000
	100 %	+30	1717 500 000	-0.1	0.000 000	0.000
	100 %	+40	1717 499 999	-0.7	0.000 000	0.000
	100 %	+50	1717 500 000	-0.1	0.000 000	0.000
	Batt. Endpoint	+20	1717 500 000	0.3	0.000 000	0.000
1772.5	100 %	+20(Ref)	1772 500 000	0.0	0.000 000	0.000
	100 %	-30	1772 500 000	0.3	0.000 000	0.000
	100 %	-20	1772 500 000	0.1	0.000 000	0.000
	100 %	-10	1772 499 999	-0.7	0.000 000	0.000
	100 %	0	1772 500 000	0.8	0.000 000	0.000
	100 %	+10	1772 499 999	-0.6	0.000 000	0.000
	100 %	+30	1772 500 000	-0.2	0.000 000	0.000
	100 %	+40	1772 500 000	0.3	0.000 000	0.000
	100 %	+50	1772 500 001	1.3	0.000 000	0.001
	Batt. Endpoint	+20	1772 500 000	-0.1	0.000 000	0.000

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1720.0	100 %	+20(Ref)	1720 000 001	0.0	0.000 000	0.000
	100 %	-30	1720 000 001	0.7	0.000 000	0.000
	100 %	-20	1720 000 001	0.1	0.000 000	0.000
	100 %	-10	1720 000 000	-0.5	0.000 000	0.000
	100 %	0	1720 000 000	-0.2	0.000 000	0.000
	100 %	+10	1720 000 001	0.5	0.000 000	0.000
	100 %	+30	1720 000 001	0.1	0.000 000	0.000
	100 %	+40	1720 000 002	1.0	0.000 000	0.001
	100 %	+50	1720 000 002	1.1	0.000 000	0.001
	Batt. Endpoint	+20	1720 000 001	0.1	0.000 000	0.000
1770.0	100 %	+20(Ref)	1770 000 000	0.0	0.000 000	0.000
	100 %	-30	1770 000 002	1.5	0.000 000	0.001
	100 %	-20	1770 000 000	0.1	0.000 000	0.000
	100 %	-10	1770 000 001	1.0	0.000 000	0.001
	100 %	0	1770 000 001	0.7	0.000 000	0.000
	100 %	+10	1770 000 001	1.0	0.000 000	0.001
	100 %	+30	1770 000 000	0.1	0.000 000	0.000
	100 %	+40	1770 000 000	-0.1	0.000 000	0.000
	100 %	+50	1770 000 001	0.5	0.000 000	0.000
	Batt. Endpoint	+20	1769 999 999	-0.9	0.000 000	-0.001

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1722.5	100 %	+20(Ref)	1722 500 000	0.0	0.000 000	0.000
	100 %	-30	1722 500 000	-0.6	0.000 000	0.000
	100 %	-20	1722 500 000	-0.5	0.000 000	0.000
	100 %	-10	1722 500 001	0.4	0.000 000	0.000
	100 %	0	1722 500 000	0.1	0.000 000	0.000
	100 %	+10	1722 500 000	-0.1	0.000 000	0.000
	100 %	+30	1722 500 000	-0.6	0.000 000	0.000
	100 %	+40	1722 500 000	-0.7	0.000 000	0.000
	100 %	+50	1722 499 999	-0.7	0.000 000	0.000
	Batt. Endpoint	+20	1722 500 000	0.3	0.000 000	0.000
1767.5	100 %	+20(Ref)	1767 499 999	0.0	0.000 000	0.000
	100 %	-30	1767 499 999	-0.1	0.000 000	0.000
	100 %	-20	1767 499 997	-1.6	0.000 000	-0.001
	100 %	-10	1767 499 998	-0.6	0.000 000	0.000
	100 %	0	1767 499 999	0.0	0.000 000	0.000
	100 %	+10	1767 499 999	-0.3	0.000 000	0.000
	100 %	+30	1767 499 998	-0.4	0.000 000	0.000
	100 %	+40	1767 499 999	-0.2	0.000 000	0.000
	100 %	+50	1767 499 999	0.0	0.000 000	0.000
	Batt. Endpoint	+20	1767 499 998	-0.8	0.000 000	0.000

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

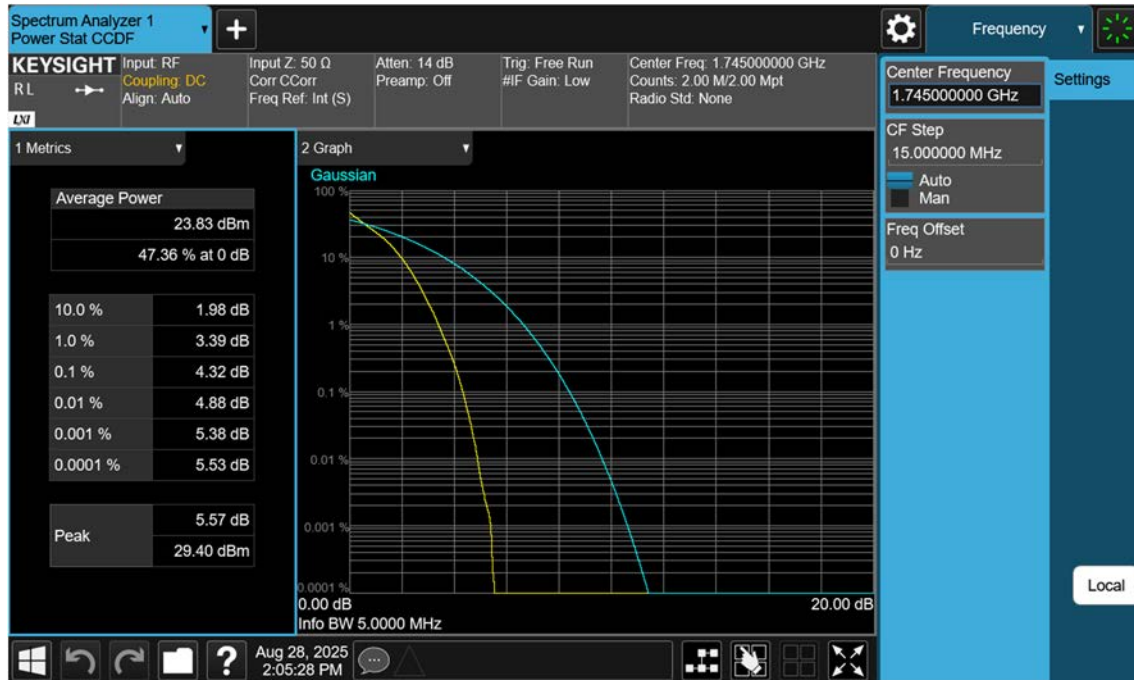
Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1725.0	100 %	+20(Ref)	1725 000 000	0.0	0.000 000	0.000
	100 %	-30	1724 999 999	-0.4	0.000 000	0.000
	100 %	-20	1725 000 000	0.5	0.000 000	0.000
	100 %	-10	1724 999 999	-0.5	0.000 000	0.000
	100 %	0	1724 999 999	-0.3	0.000 000	0.000
	100 %	+10	1724 999 999	-0.3	0.000 000	0.000
	100 %	+30	1724 999 999	-0.7	0.000 000	0.000
	100 %	+40	1724 999 999	-1.0	0.000 000	-0.001
	100 %	+50	1725 000 000	0.3	0.000 000	0.000
	Batt. Endpoint	+20	1725 000 000	0.7	0.000 000	0.000
1765.0	100 %	+20(Ref)	1765 000 000	0.0	0.000 000	0.000
	100 %	-30	1765 000 000	-0.6	0.000 000	0.000
	100 %	-20	1765 000 002	2.0	0.000 000	0.001
	100 %	-10	1765 000 000	0.0	0.000 000	0.000
	100 %	0	1765 000 000	-0.3	0.000 000	0.000
	100 %	+10	1765 000 001	0.7	0.000 000	0.000
	100 %	+30	1765 000 000	-0.2	0.000 000	0.000
	100 %	+40	1764 999 999	-0.9	0.000 000	0.000
	100 %	+50	1765 000 000	-0.5	0.000 000	0.000
	Batt. Endpoint	+20	1765 000 000	0.0	0.000 000	0.000

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

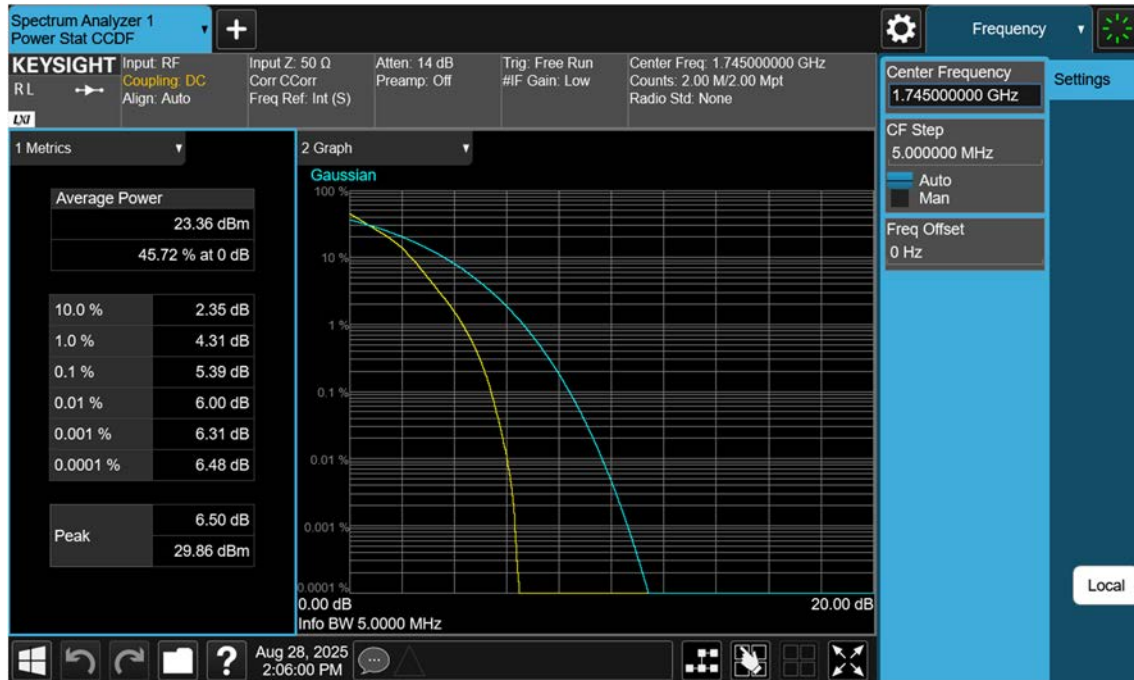
Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
1730.0	100 %	+20(Ref)	1729 999 999	0.0	0.000 000	0.000
	100 %	-30	1729 999 999	-0.2	0.000 000	0.000
	100 %	-20	1729 999 999	-0.1	0.000 000	0.000
	100 %	-10	1729 999 998	-0.8	0.000 000	0.000
	100 %	0	1729 999 999	0.0	0.000 000	0.000
	100 %	+10	1729 999 998	-0.7	0.000 000	0.000
	100 %	+30	1729 999 998	-1.1	0.000 000	-0.001
	100 %	+40	1729 999 999	0.0	0.000 000	0.000
	100 %	+50	1729 999 999	0.1	0.000 000	0.000
	Batt. Endpoint	+20	1730 000 000	0.7	0.000 000	0.000
1760.0	100 %	+20(Ref)	1760 000 000	0.0	0.000 000	0.000
	100 %	-30	1760 000 000	0.0	0.000 000	0.000
	100 %	-20	1760 000 000	-0.1	0.000 000	0.000
	100 %	-10	1760 000 000	0.2	0.000 000	0.000
	100 %	0	1760 000 000	0.1	0.000 000	0.000
	100 %	+10	1760 000 000	0.5	0.000 000	0.000
	100 %	+30	1760 000 000	0.3	0.000 000	0.000
	100 %	+40	1760 000 000	-0.1	0.000 000	0.000
	100 %	+50	1760 000 000	-0.2	0.000 000	0.000
	Batt. Endpoint	+20	1760 000 001	1.2	0.000 000	0.001

10. TEST PLOTS(Main 1 ANT)

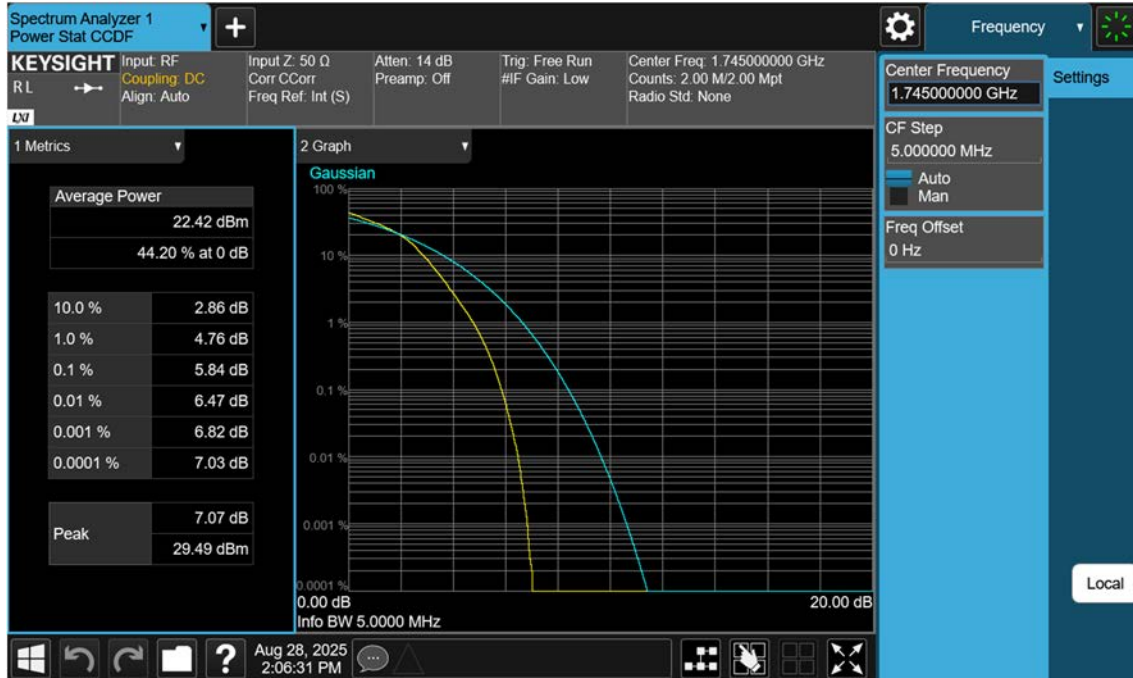
NR66_5 M_PAR_Mid_BPSK_FullRB



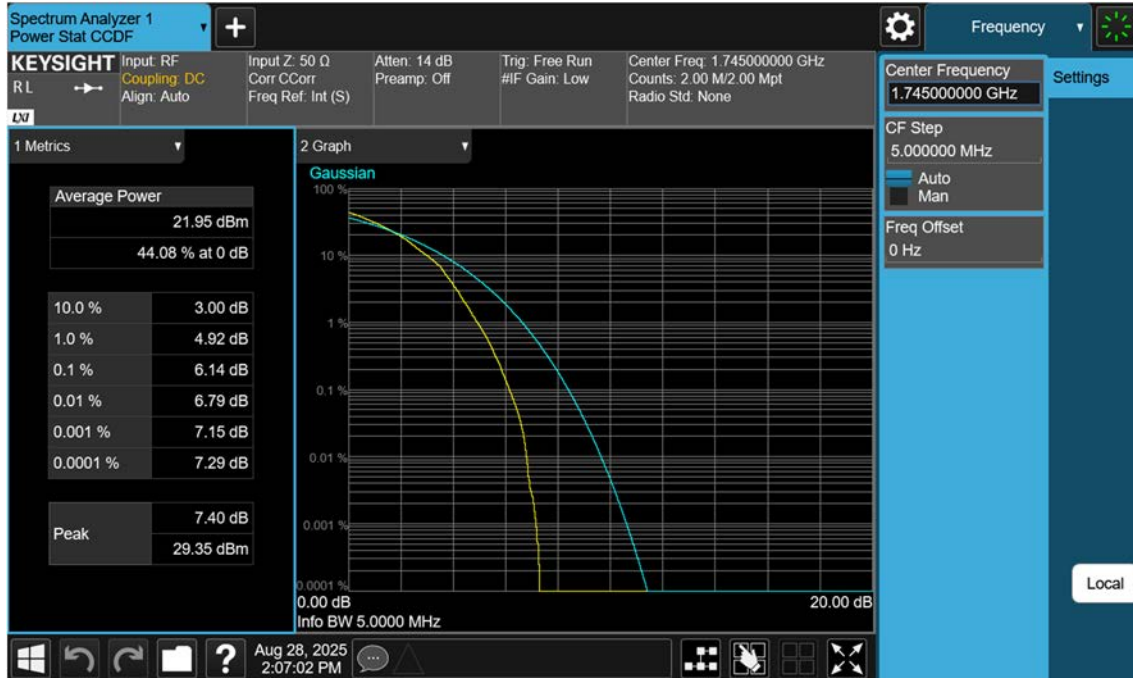
NR66_5 M_PAR_Mid_QPSK_FullRB



NR66_5 M_PAR_Mid_16QAM_FullRB



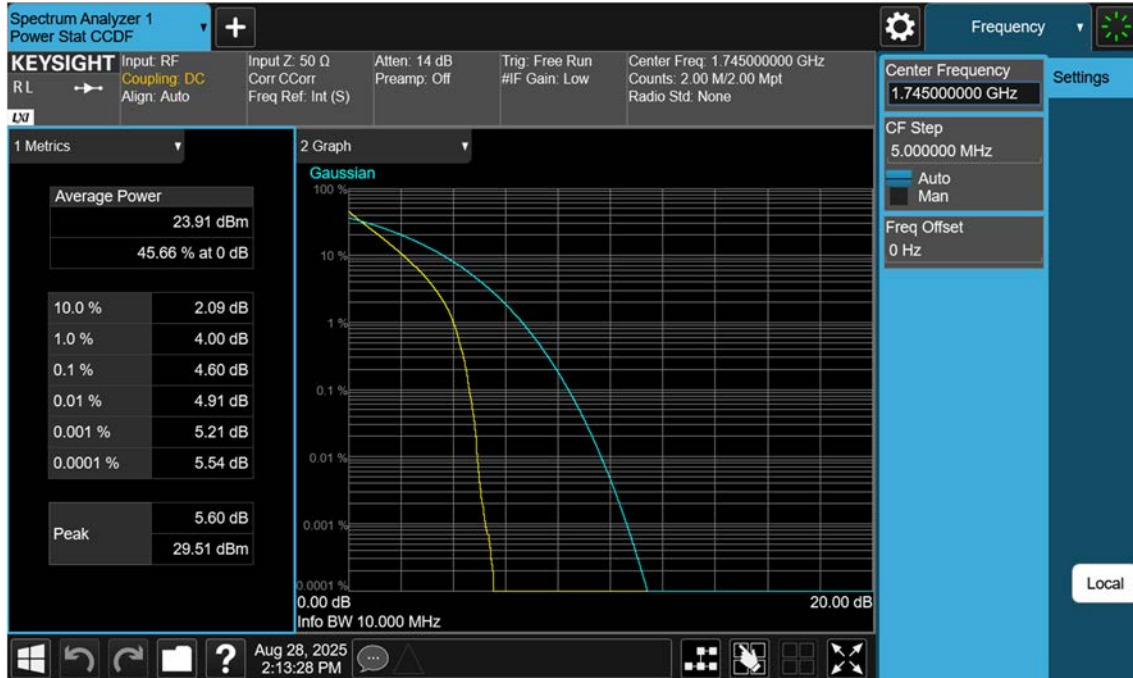
NR66_5 M_PAR_Mid_64QAM_FullRB



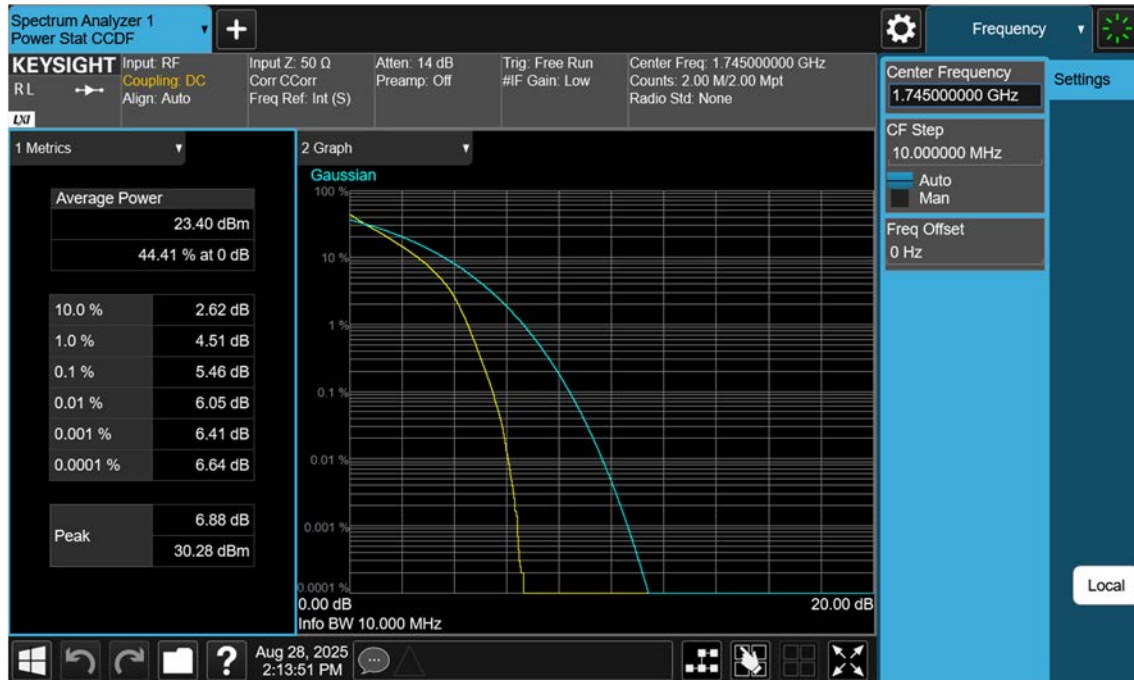
NR66_5 M_PAR_Mid_256QAM_FullRB



NR66_10 M_PAR_Mid_BPSK_FullRB



NR66_10 M_PAR_Mid_QPSK_FullRB



NR66_10 M_PAR_Mid_16QAM_FullRB



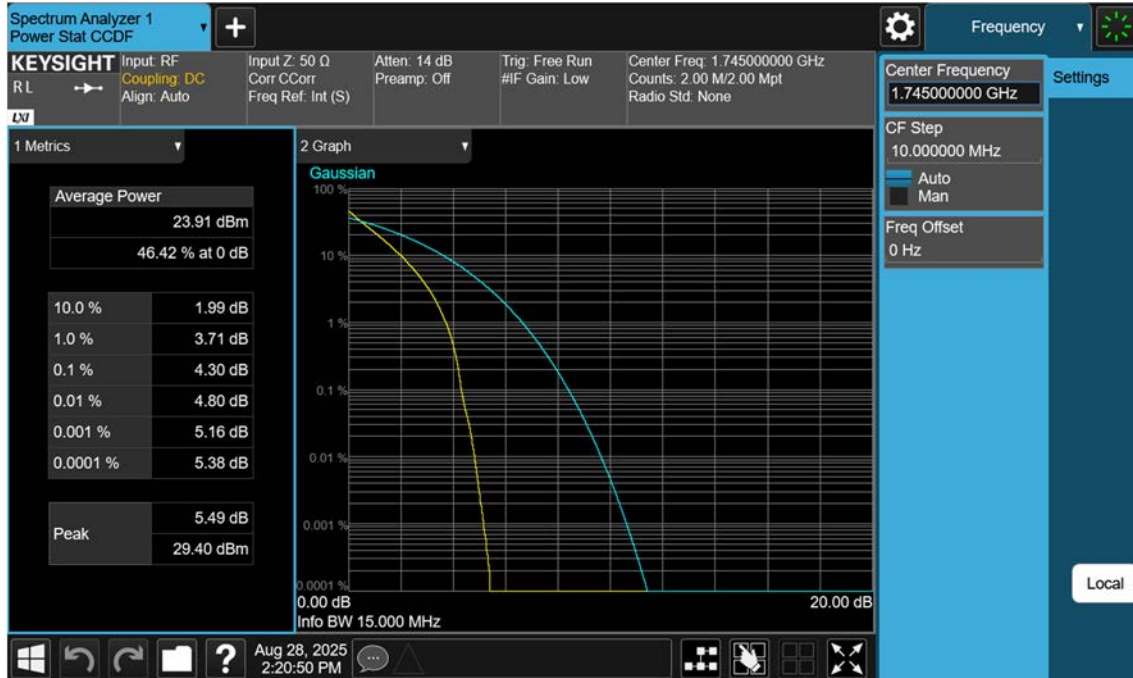
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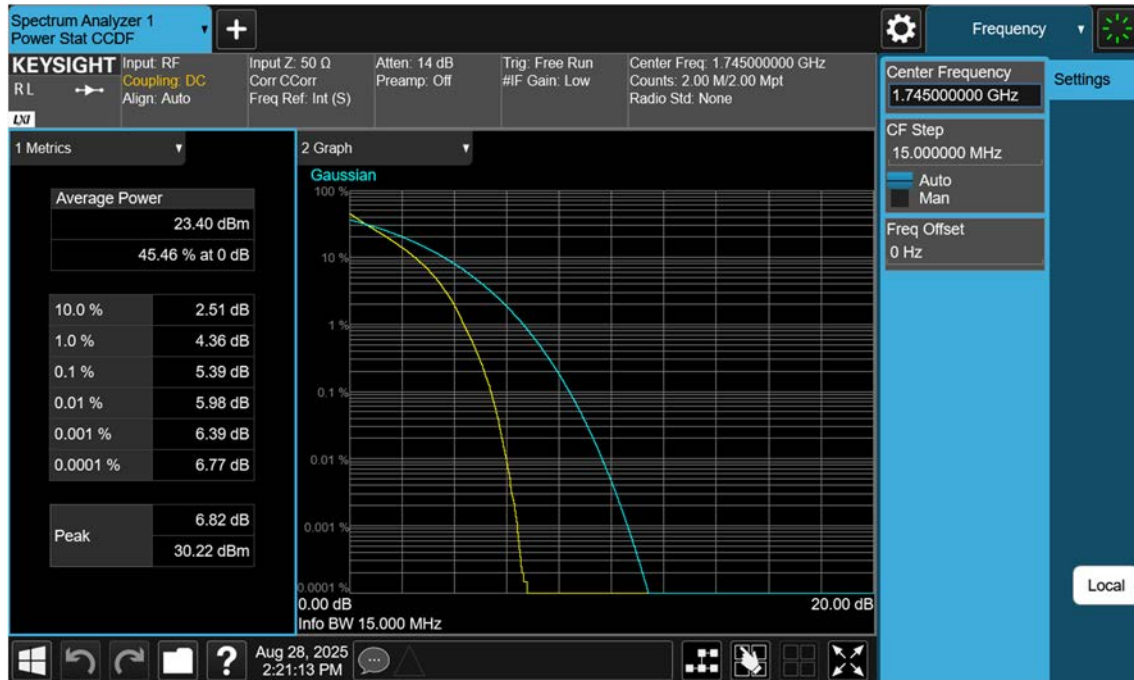
NR66_10 M_PAR_Mid_256QAM_FullRB



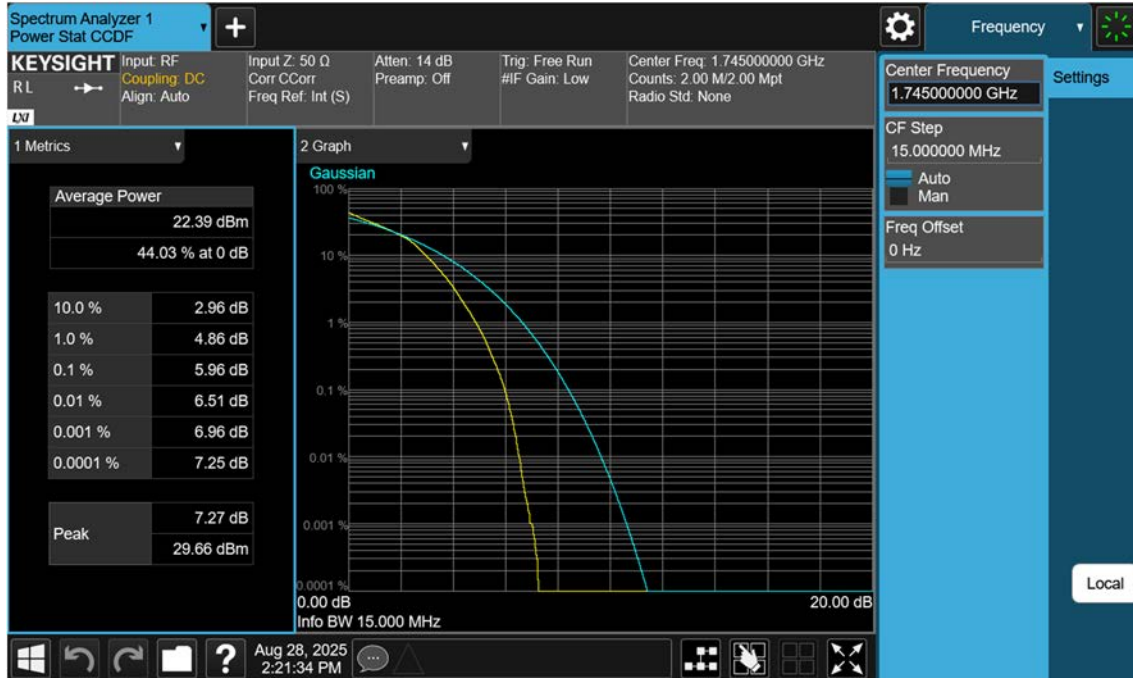
NR66_15 M_PAR_Mid_BPSK_FullRB



NR66_15 M_PAR_Mid_QPSK_FullRB



NR66_15 M_PAR_Mid_16QAM_FullRB



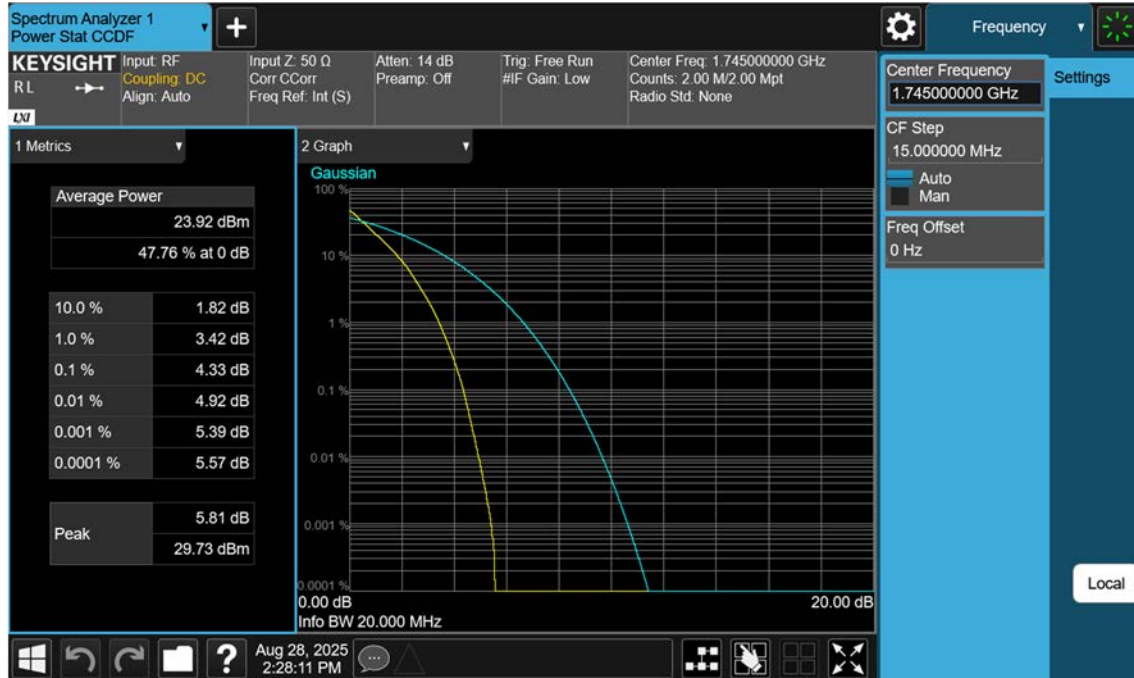
NR66_15 M_PAR_Mid_64QAM_FullRB



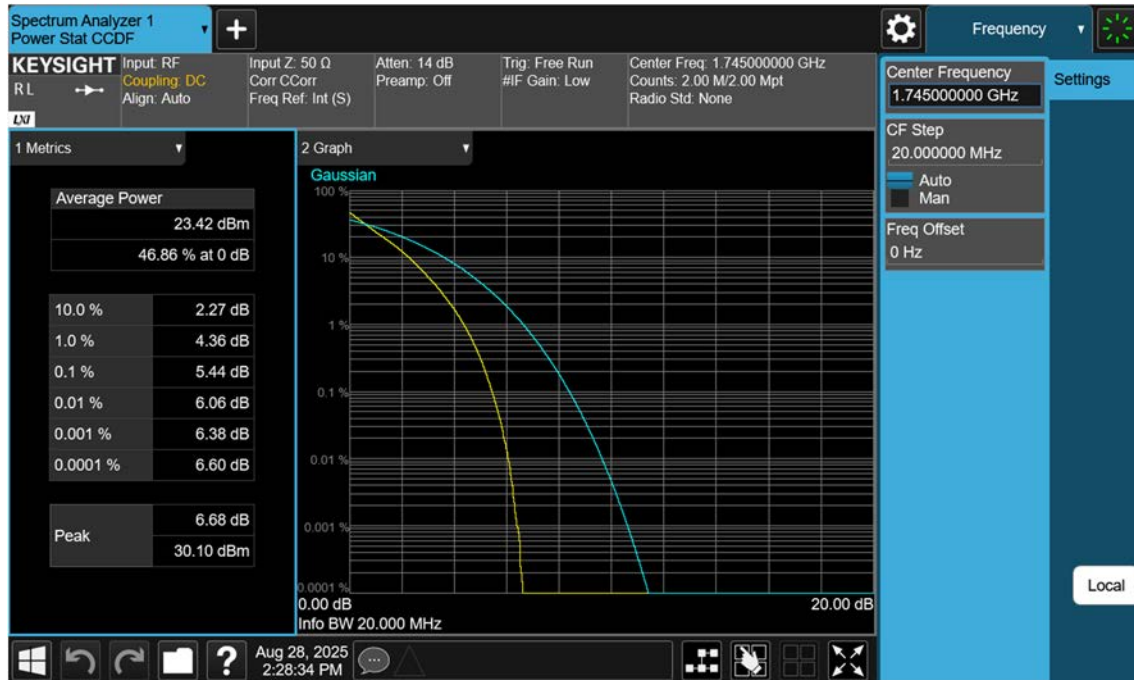
NR66_15 M_PAR_Mid_256QAM_FullRB



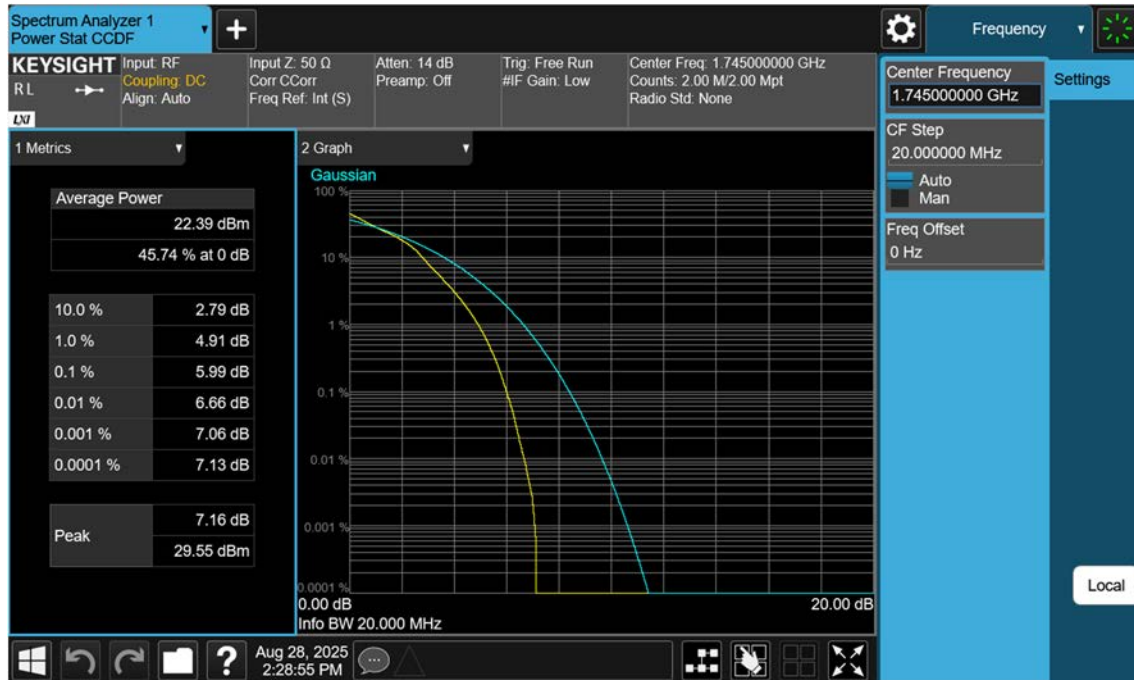
NR66_20 M_PAR_Mid_BPSK_FullRB



NR66_20 M_PAR_Mid_QPSK_FullRB



NR66_20 M_PAR_Mid_16QAM_FullRB



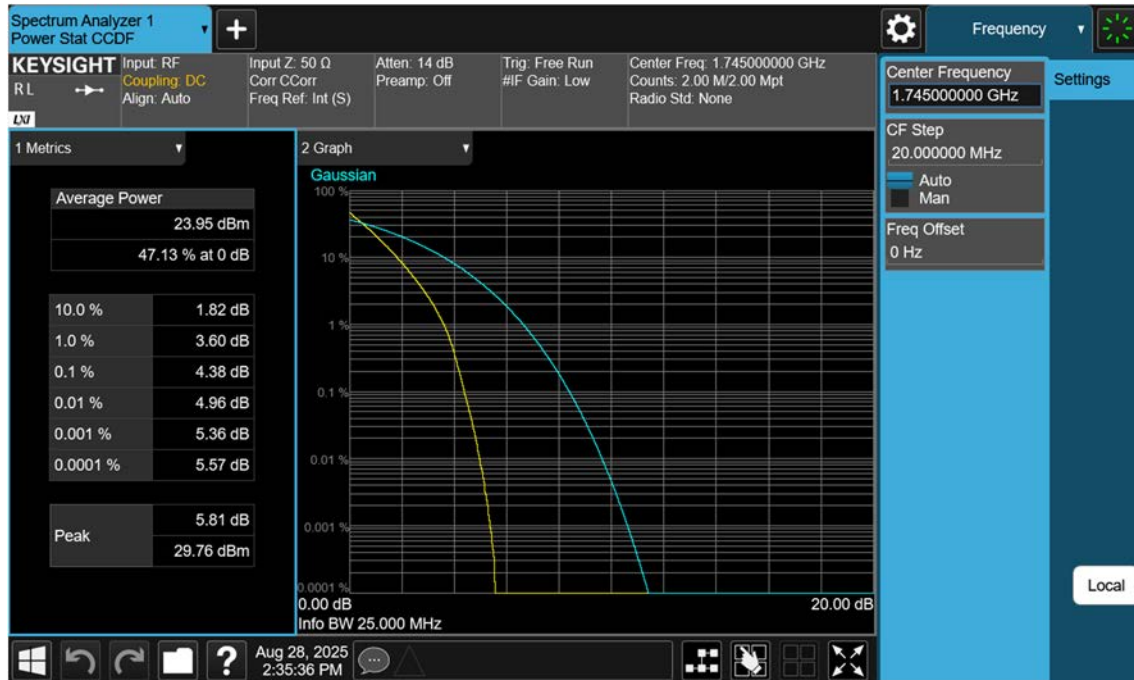
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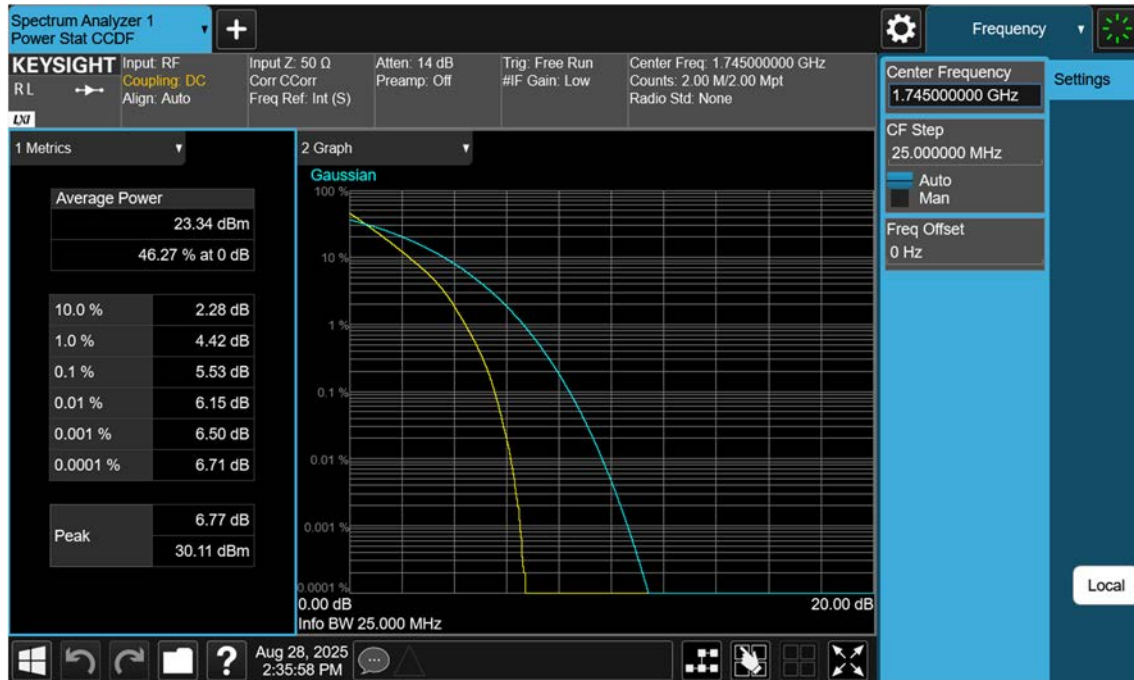
NR66_20 M_PAR_Mid_256QAM_FullRB



NR66_25 M_PAR_Mid_BPSK_FullRB



NR66_25 M_PAR_Mid_QPSK_FullRB



NR66_25 M_PAR_Mid_16QAM_FullRB



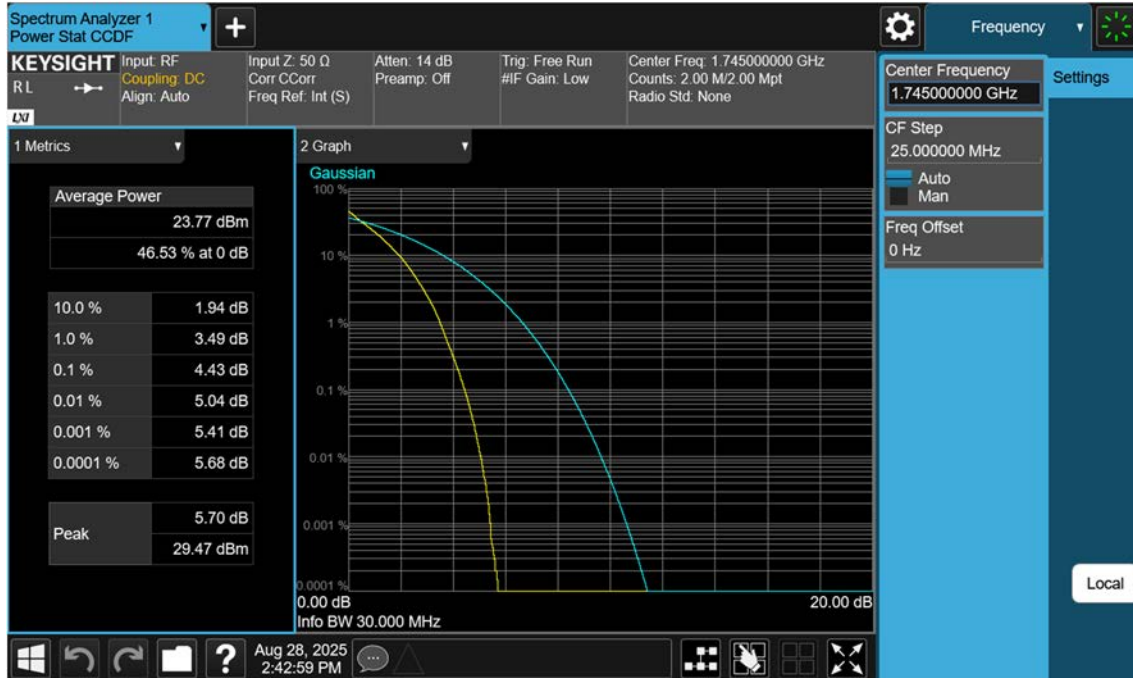
NR66_25 M_PAR_Mid_64QAM_FullRB



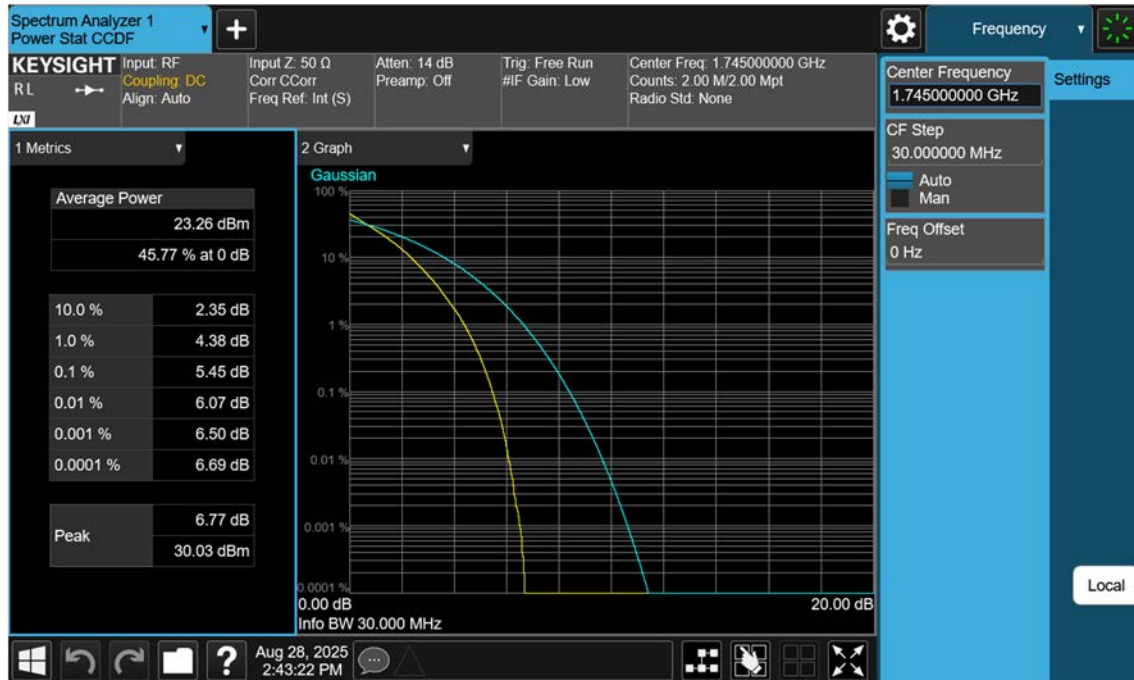
NR66_25 M_PAR_Mid_256QAM_FullRB



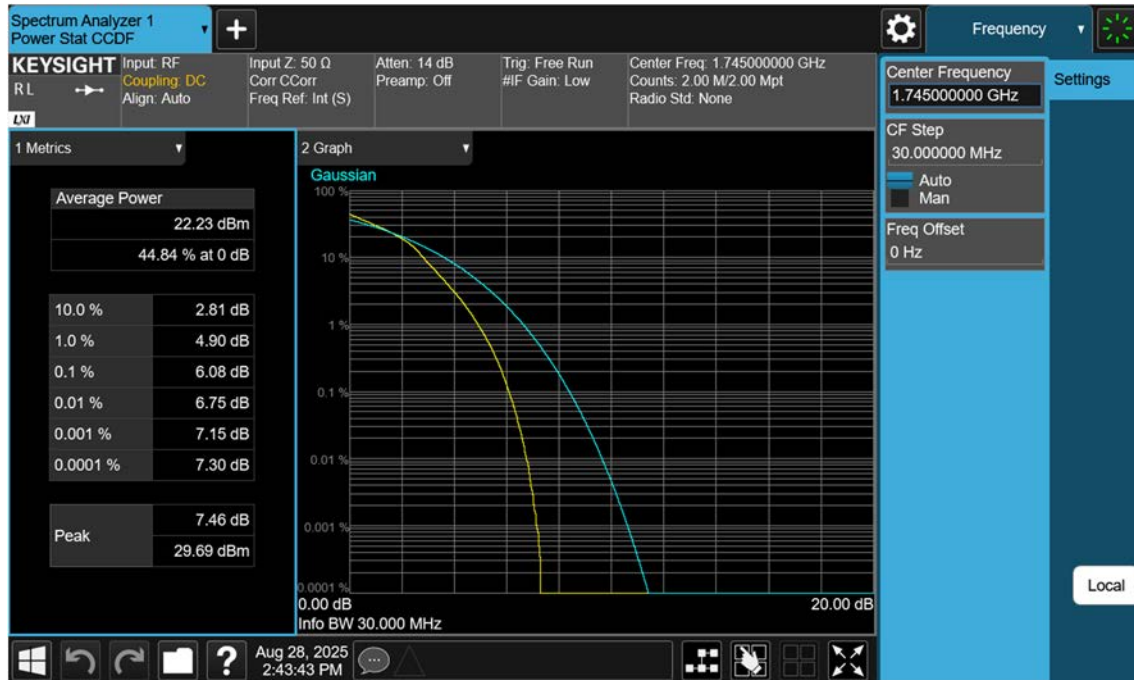
NR66_30 M_PAR_Mid_BPSK_FullRB



NR66_30 M_PAR_Mid_QPSK_FullRB



NR66_30 M_PAR_Mid_16QAM_FullRB



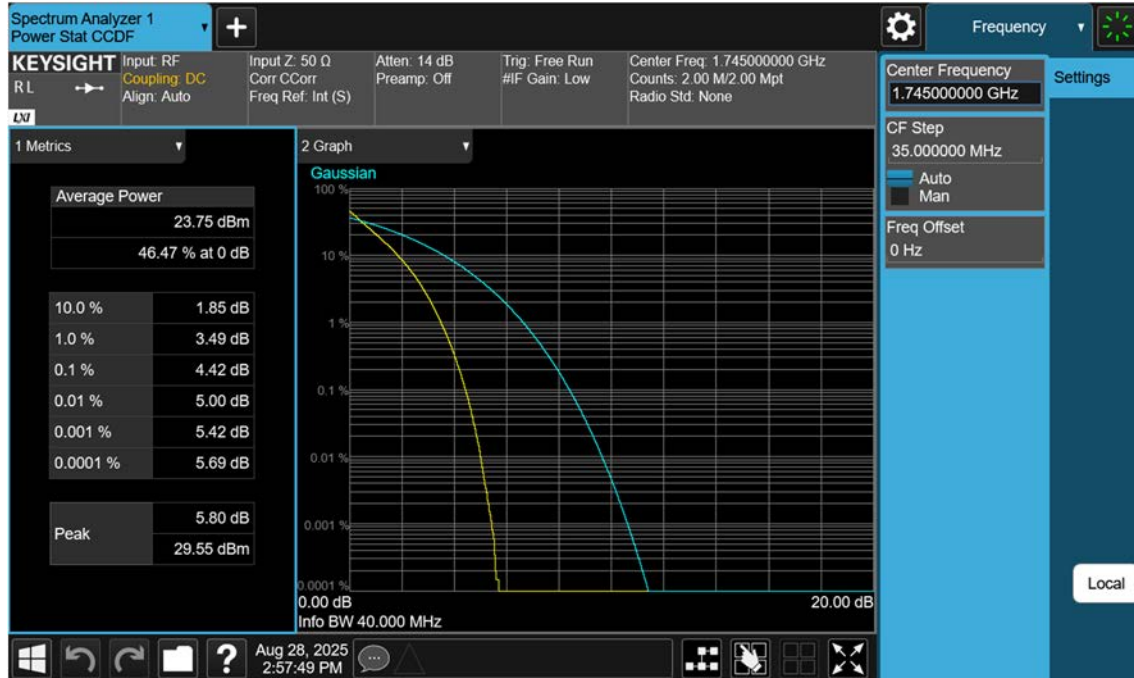
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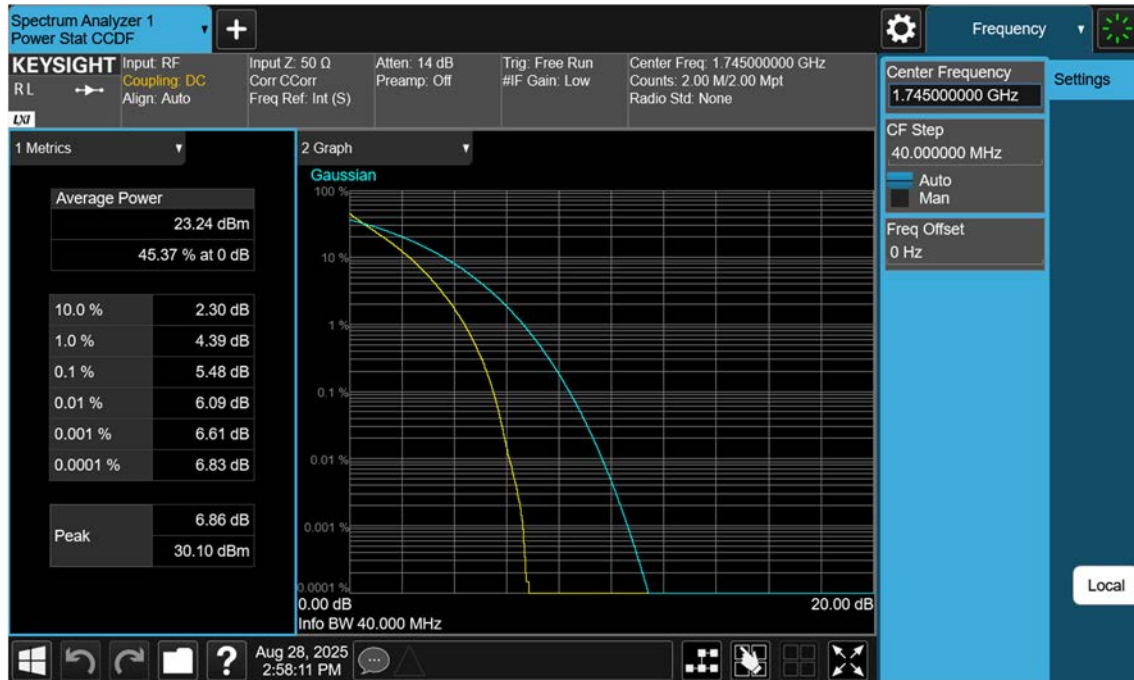
NR66_30 M_PAR_Mid_256QAM_FullRB



NR66_40 M_PAR_Mid_BPSK_FullRB



NR66_40 M_PAR_Mid_QPSK_FullRB



NR66_40 M_PAR_Mid_16QAM_FullRB



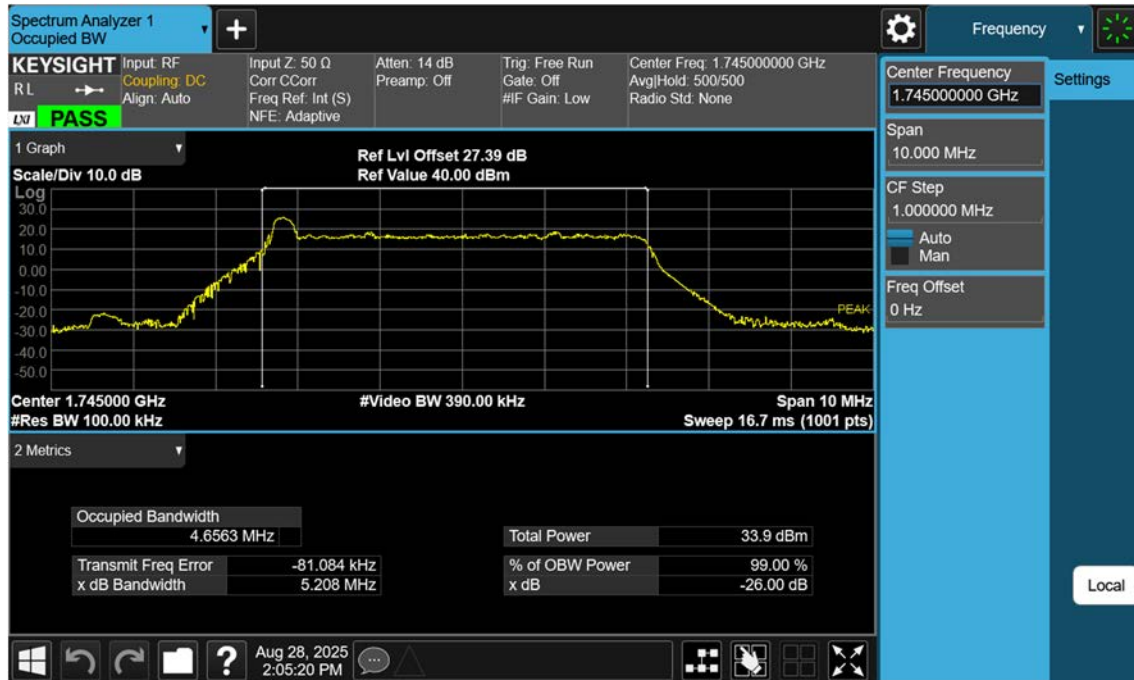
NR66_40 M_PAR_Mid_64QAM_FullRB



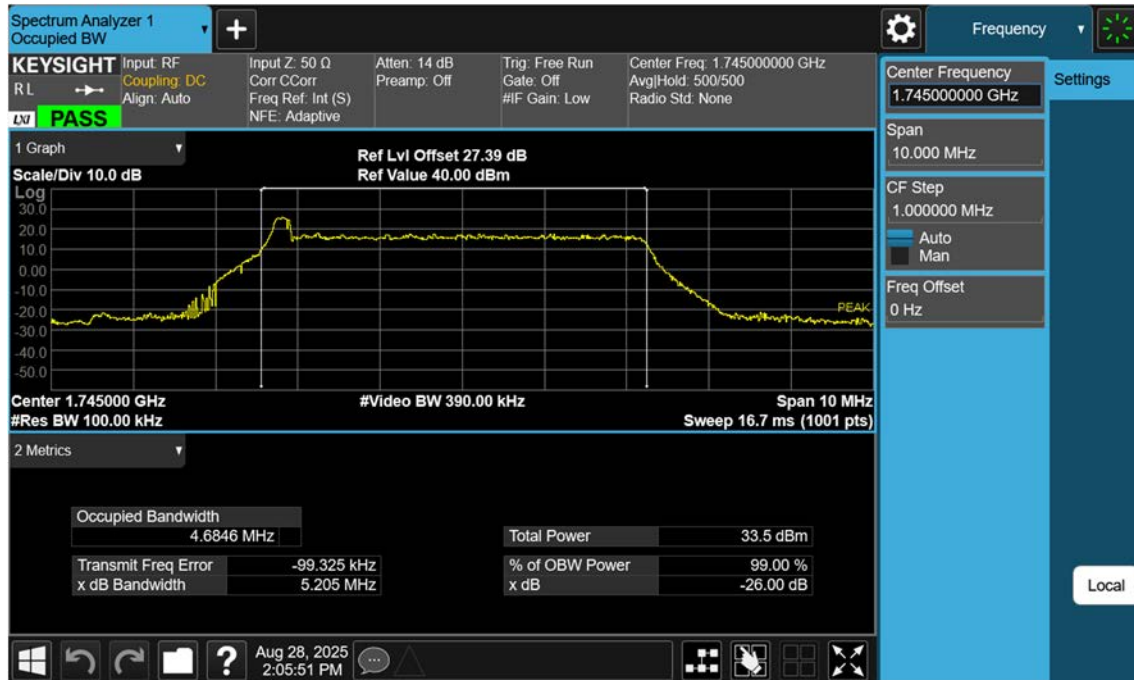
NR66_40 M_PAR_Mid_256QAM_FullRB



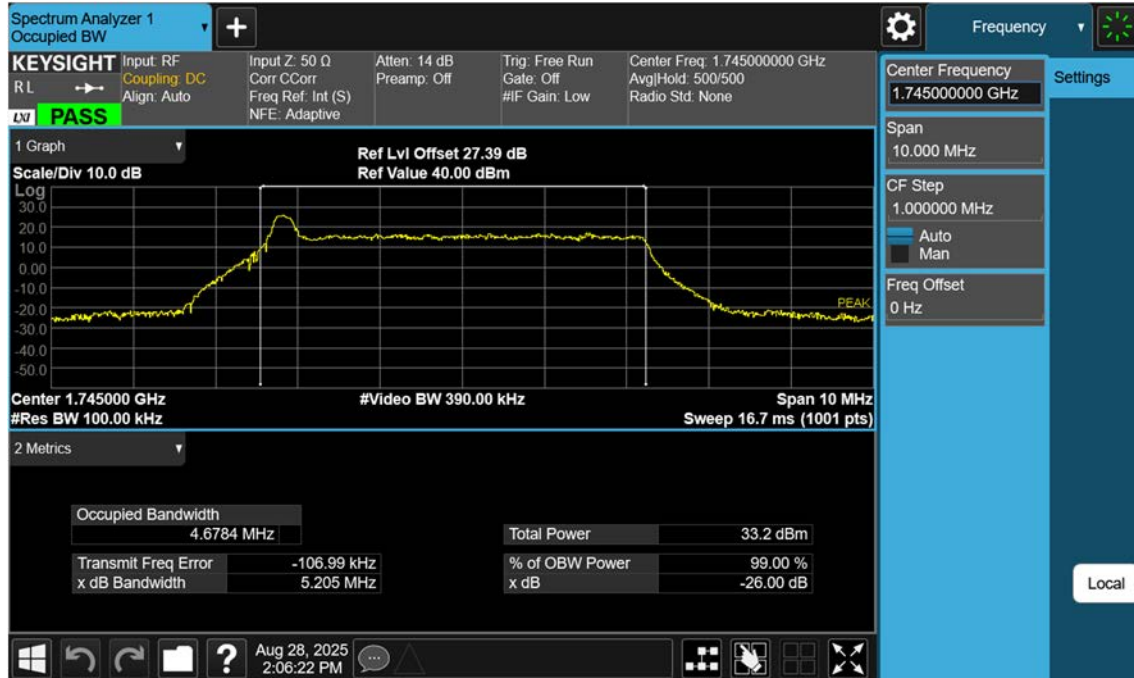
NR66_5 M_OBW_Mid_BPSK_FullRB



NR66_5 M_OBW_Mid_QPSK_FullRB



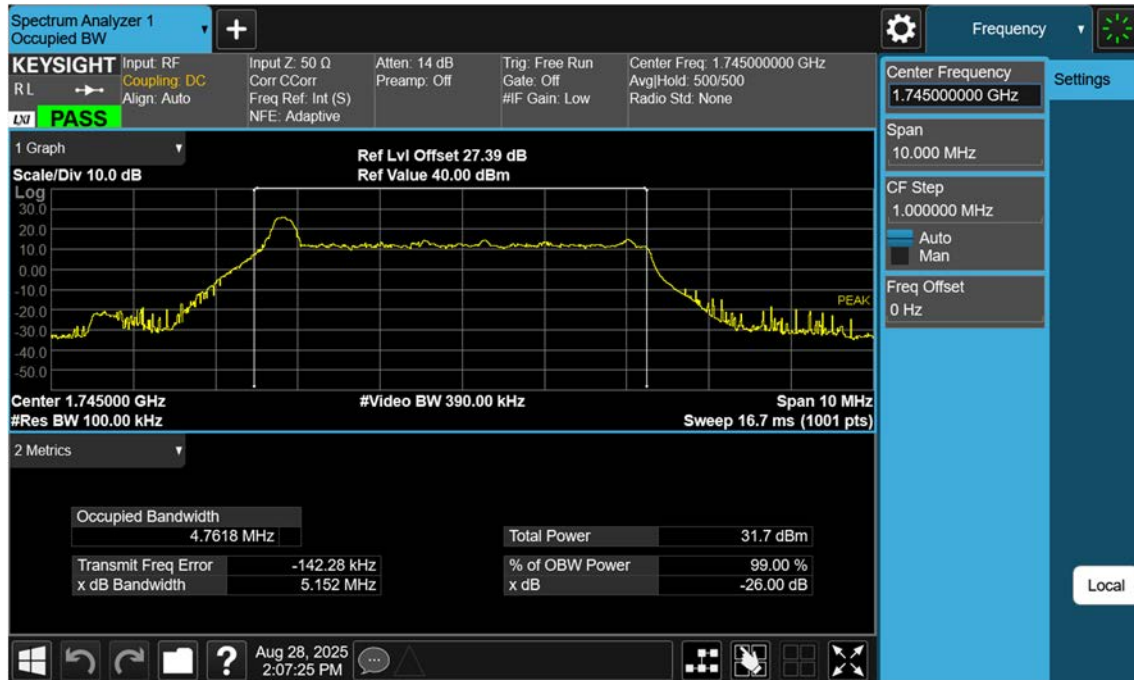
NR66_5 M_OBW_Mid_16QAM_FullRB



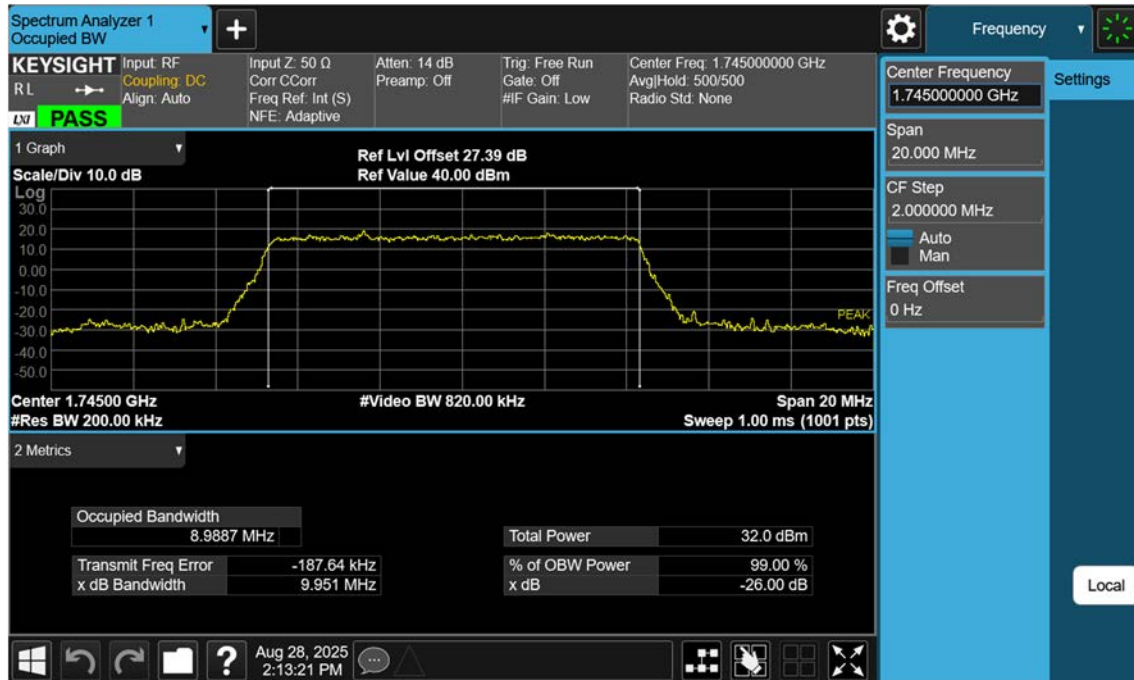
NR66_5 M_OBW_Mid_64QAM_FullRB



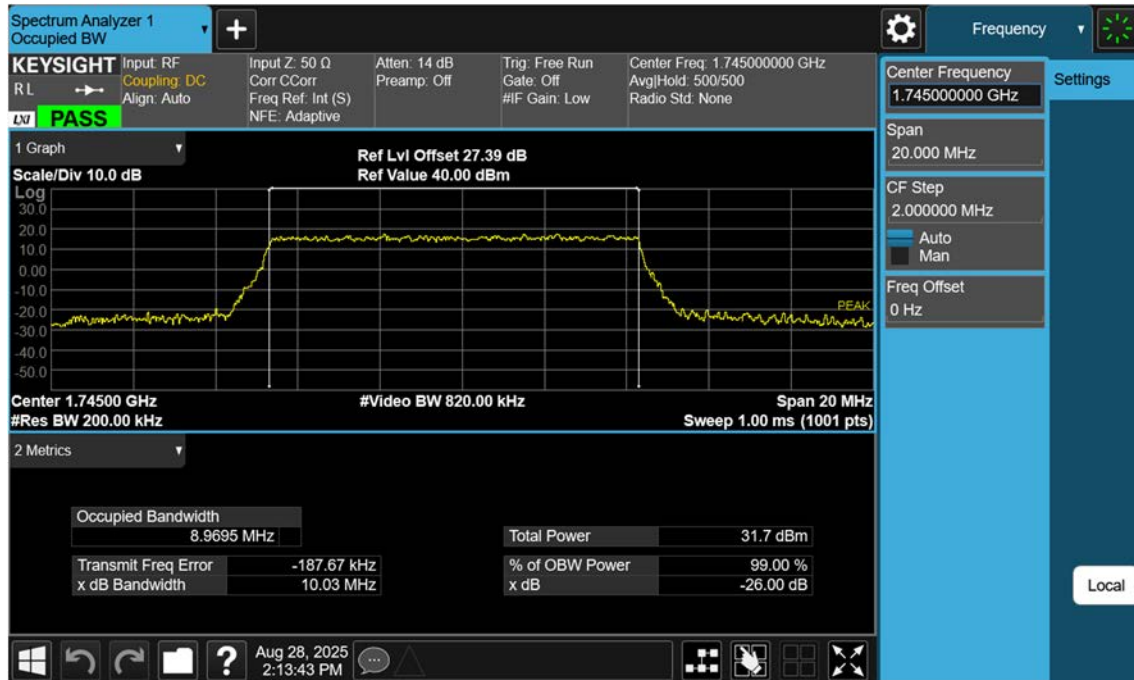
NR66_5 M_OBW_Mid_256QAM_FullRB



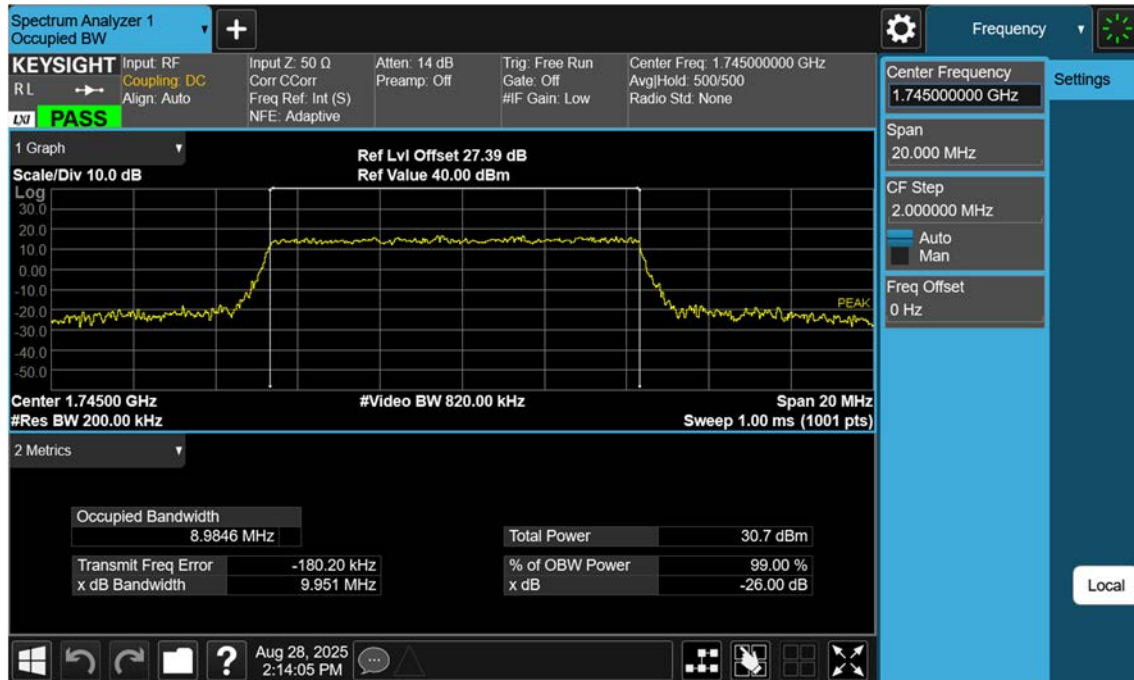
NR66_10 M_OBW_Mid_BPSK_FullRB



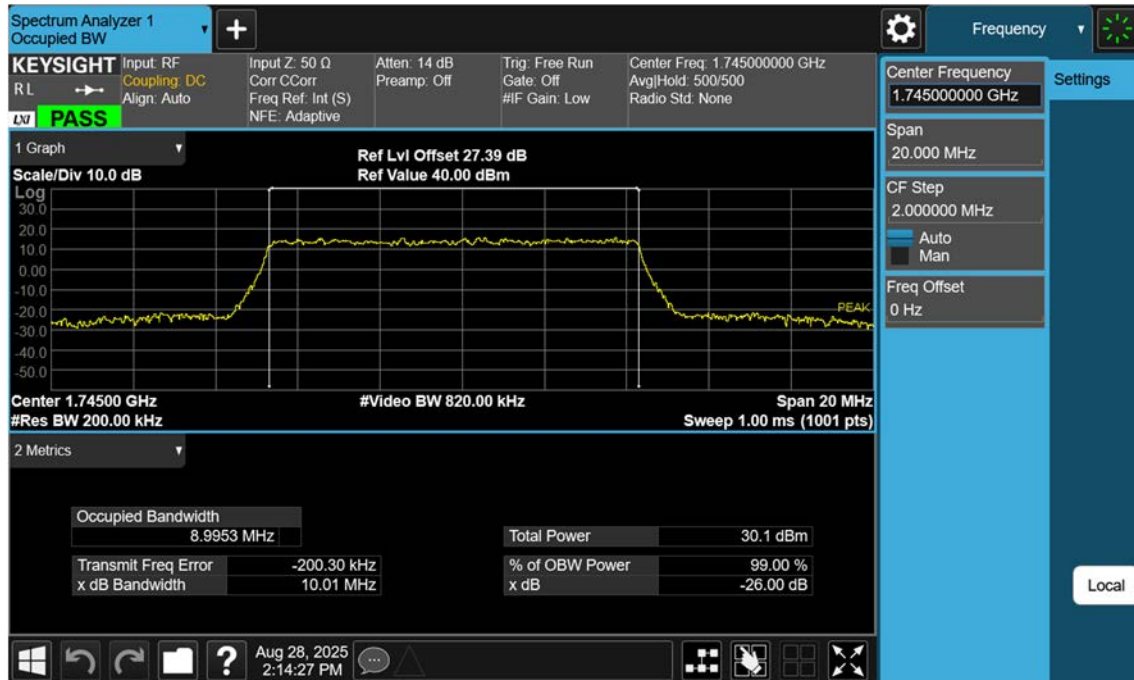
NR66_10 M_OBW_Mid_QPSK_FullRB



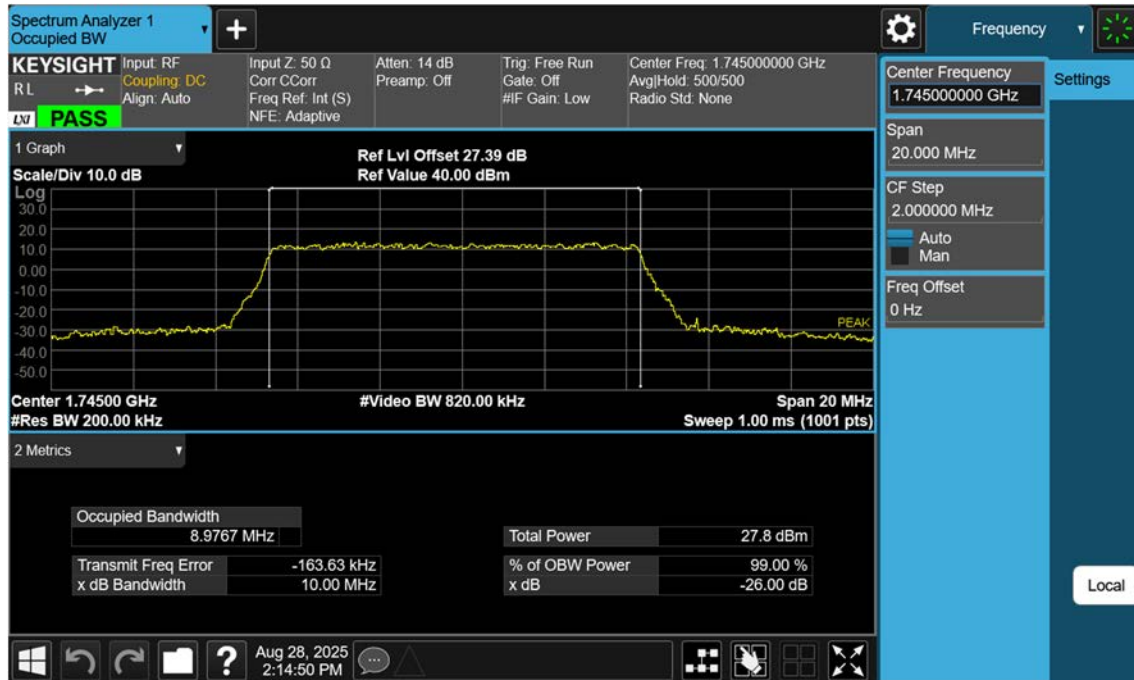
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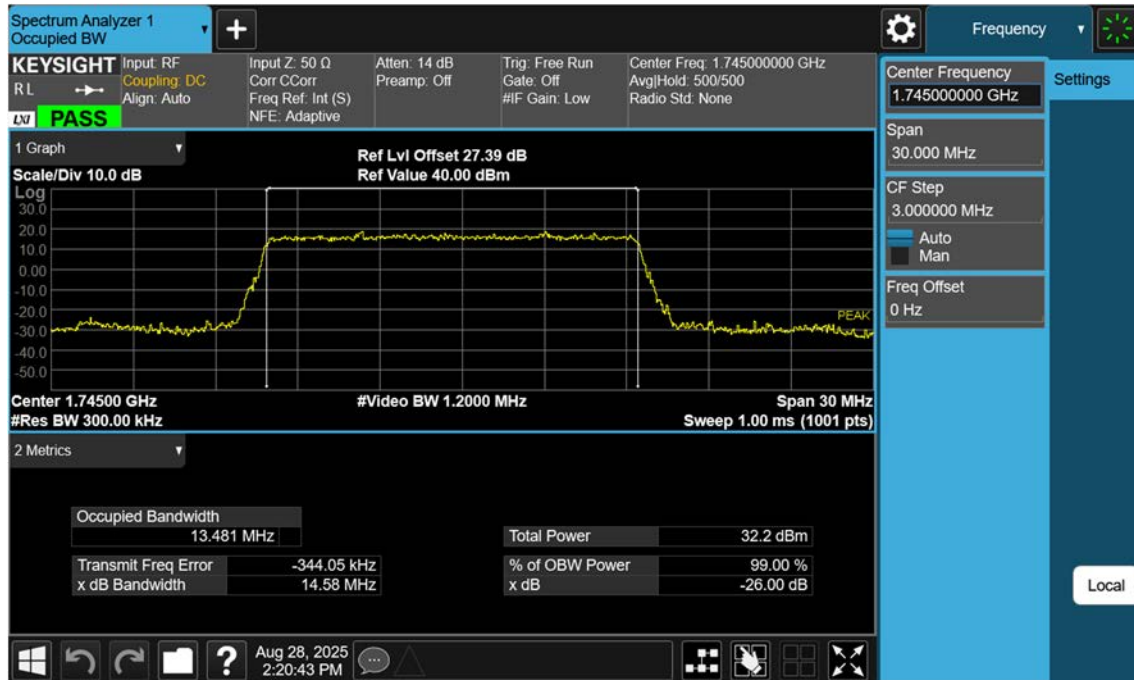
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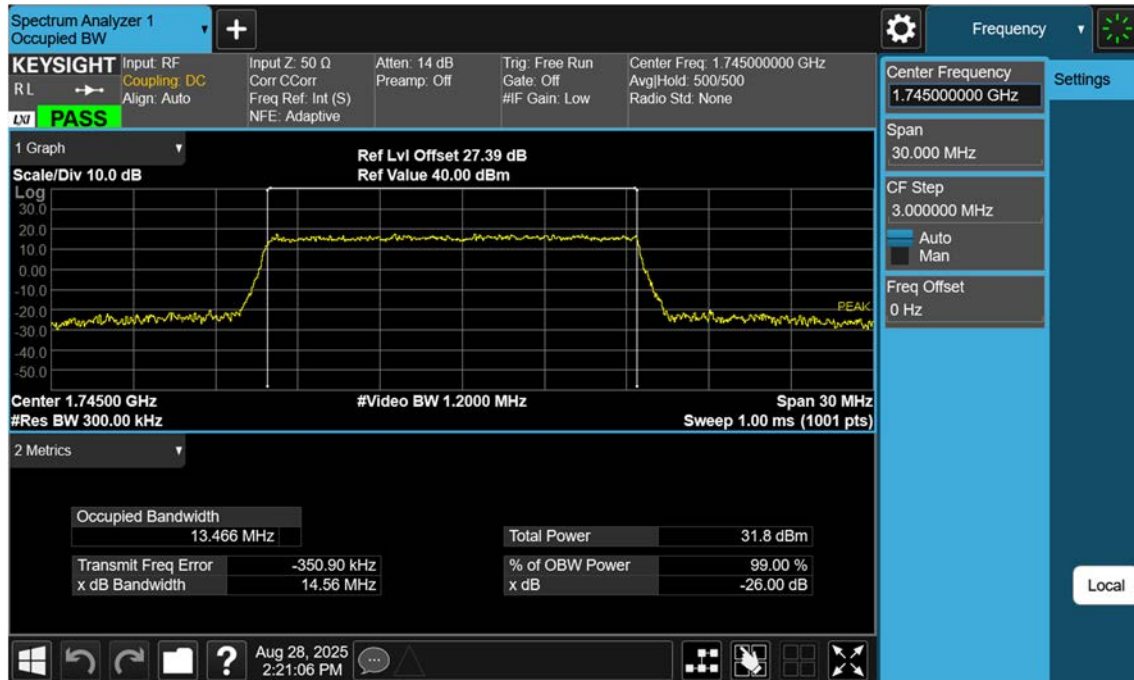
NR66_10 M_OBW_Mid_256QAM_FullRB



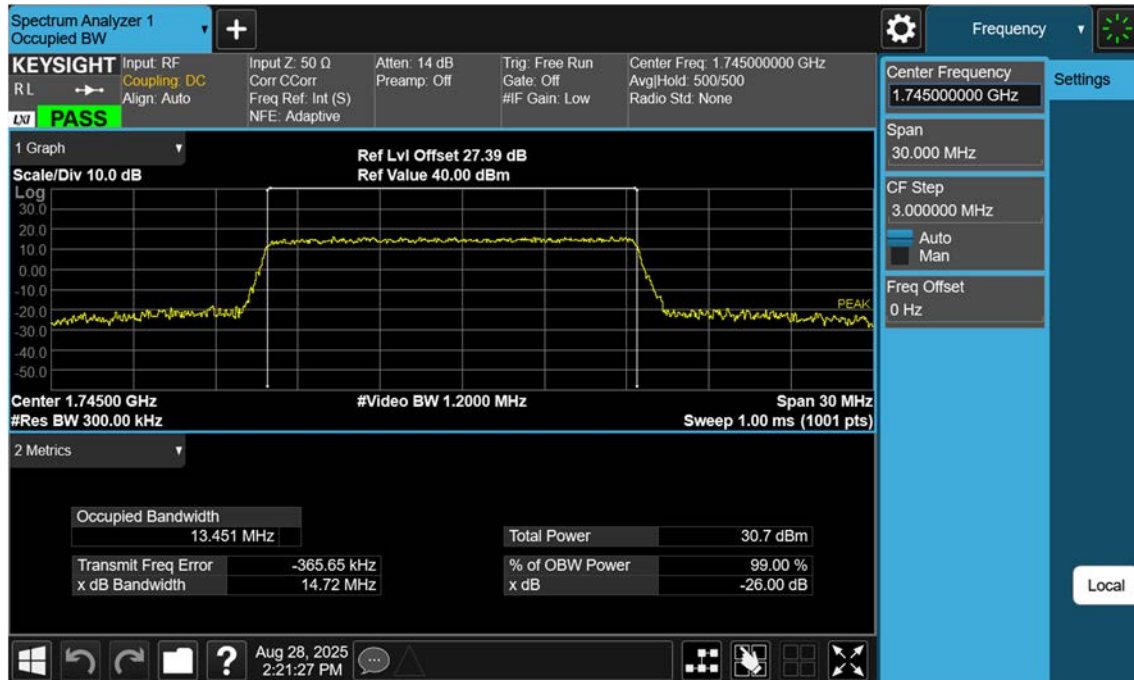
NR66_15 M_OBW_Mid_BPSK_FullRB



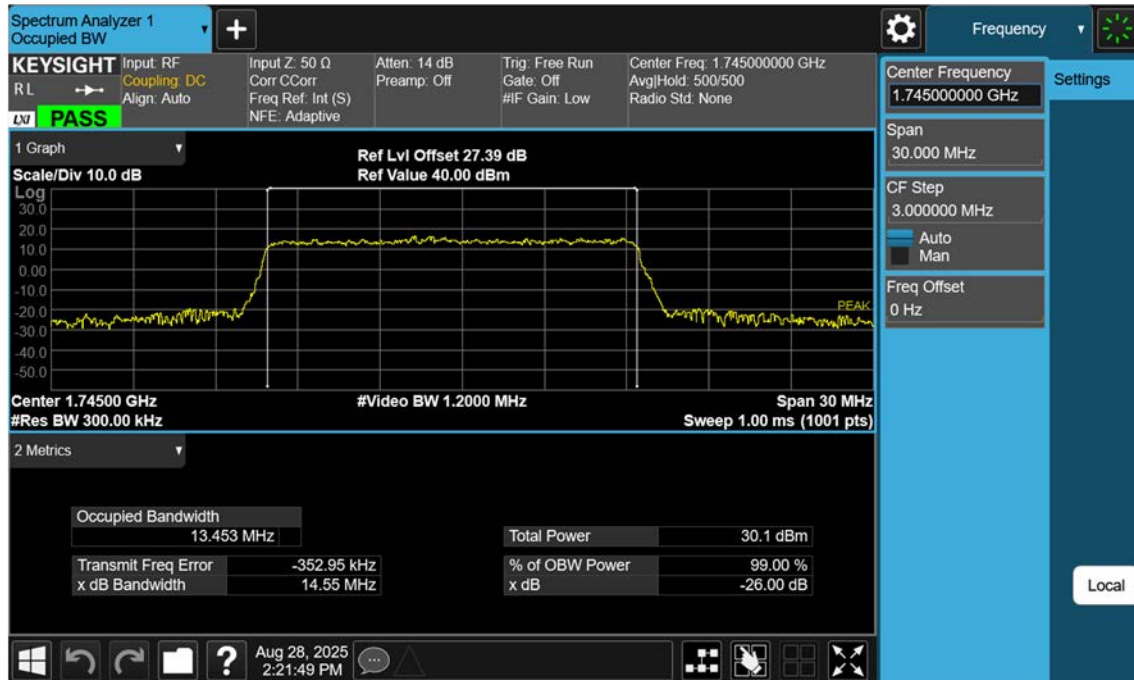
NR66_15 M_OBW_Mid_QPSK_FullRB



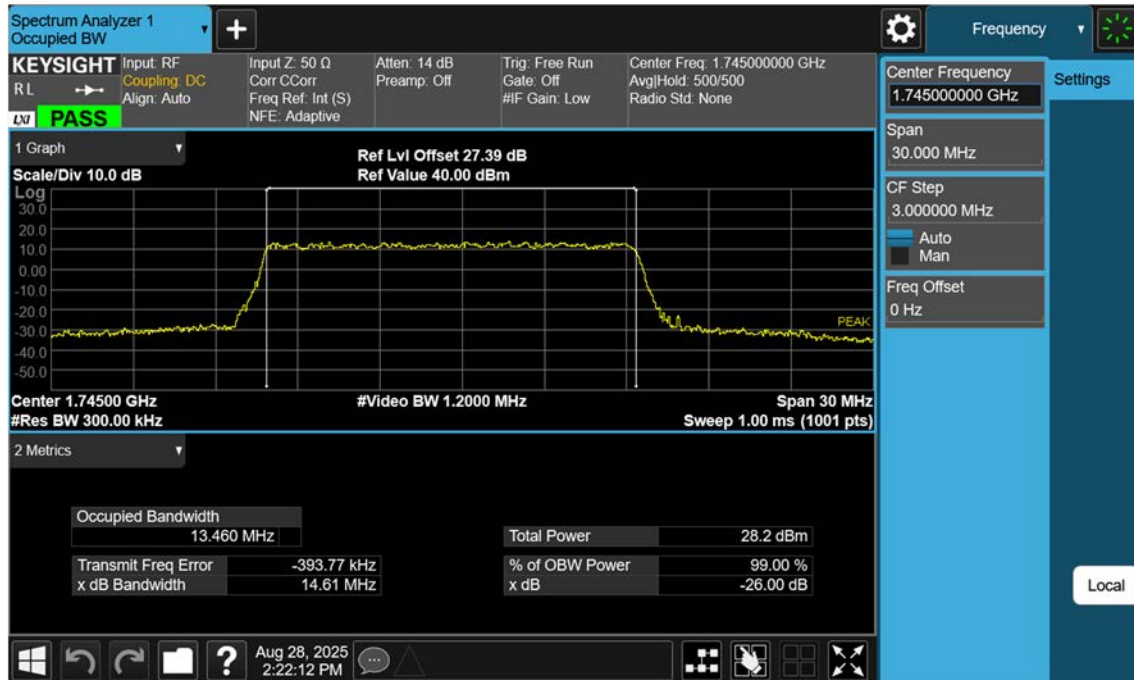
NR66_15 M_OBW_Mid_16QAM_FullRB



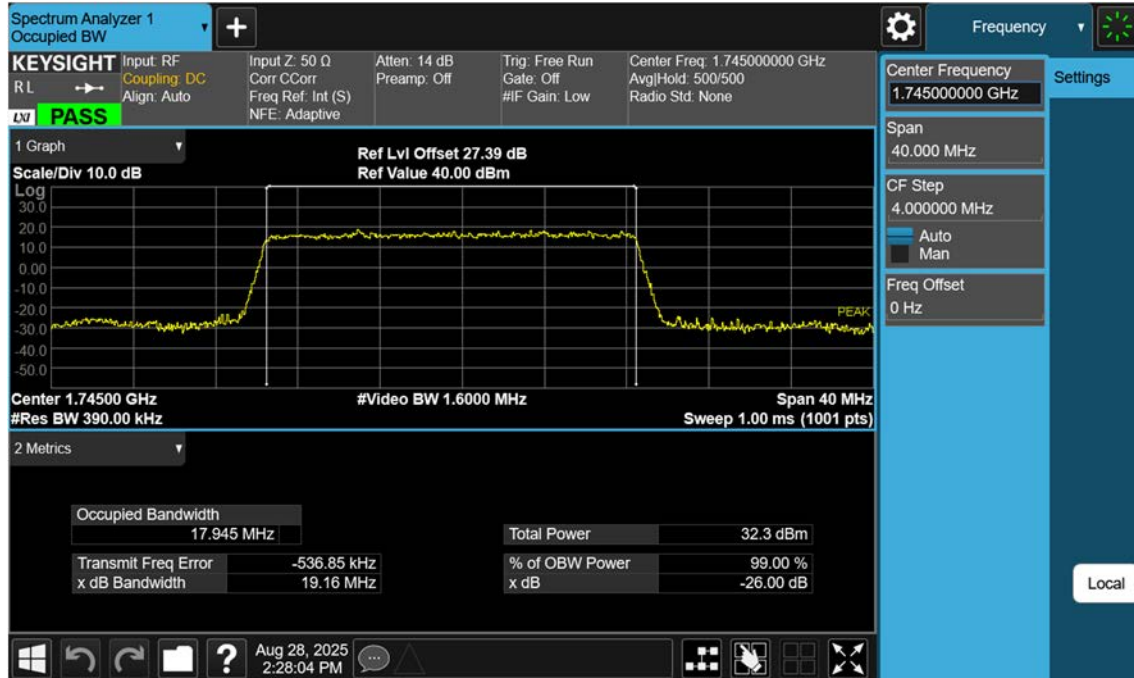
NR66_15 M_OBW_Mid_64QAM_FullRB



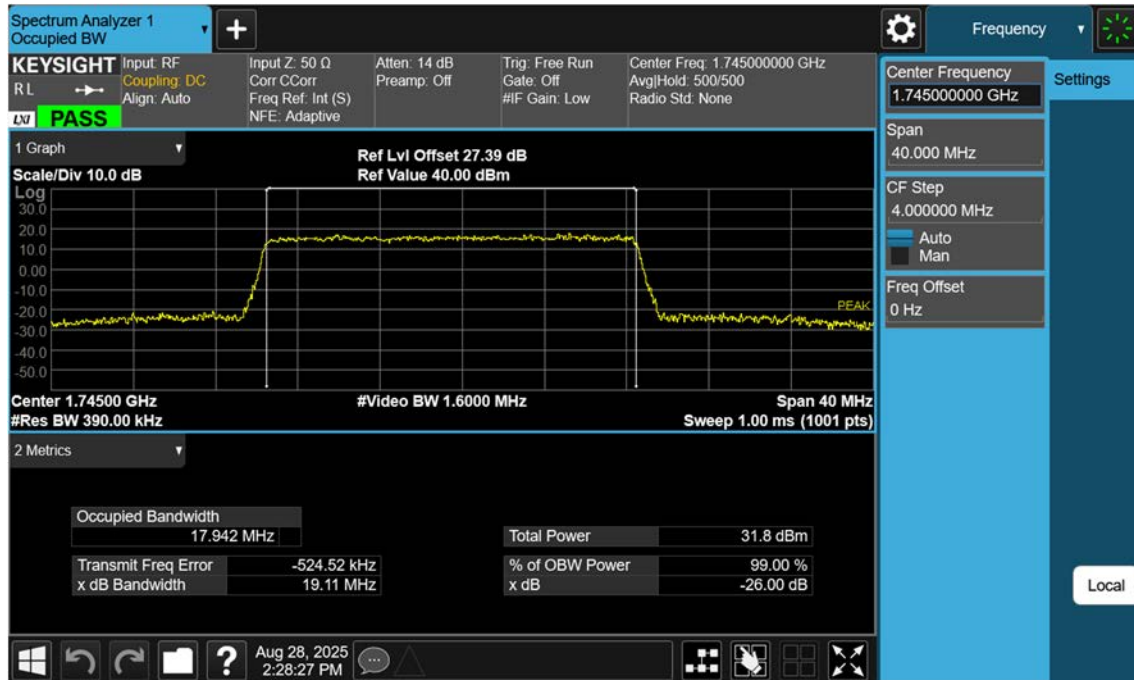
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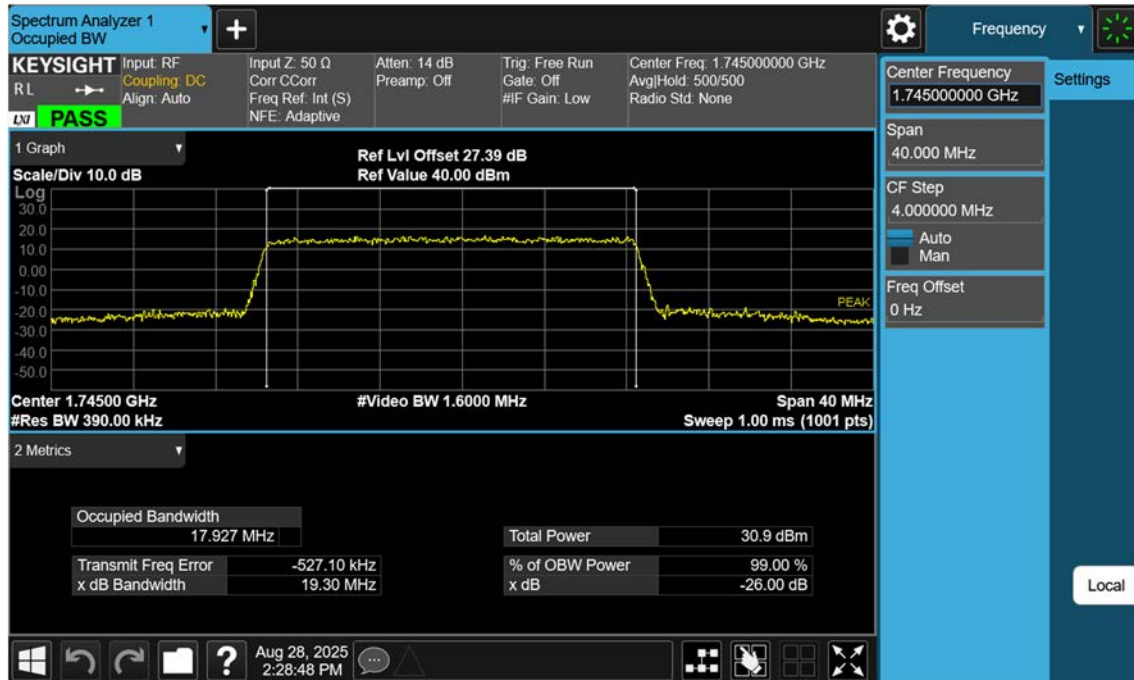
NR66_20 M_OBW_Mid_BPSK_FullRB



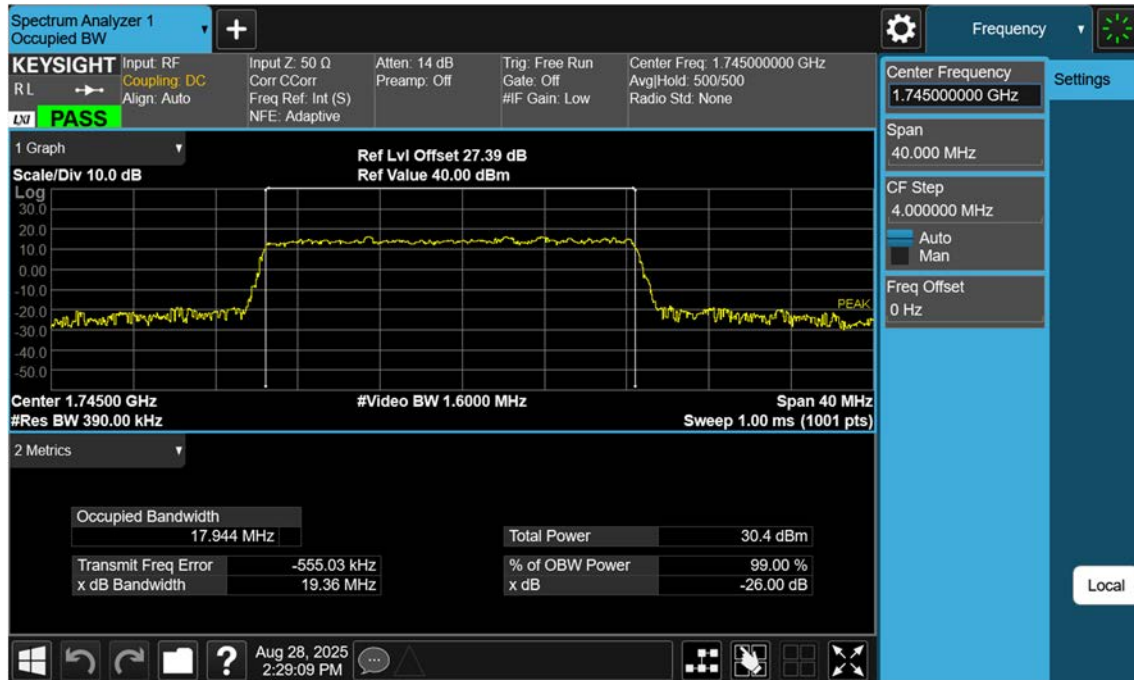
NR66_20 M_OBW_Mid_QPSK_FullRB



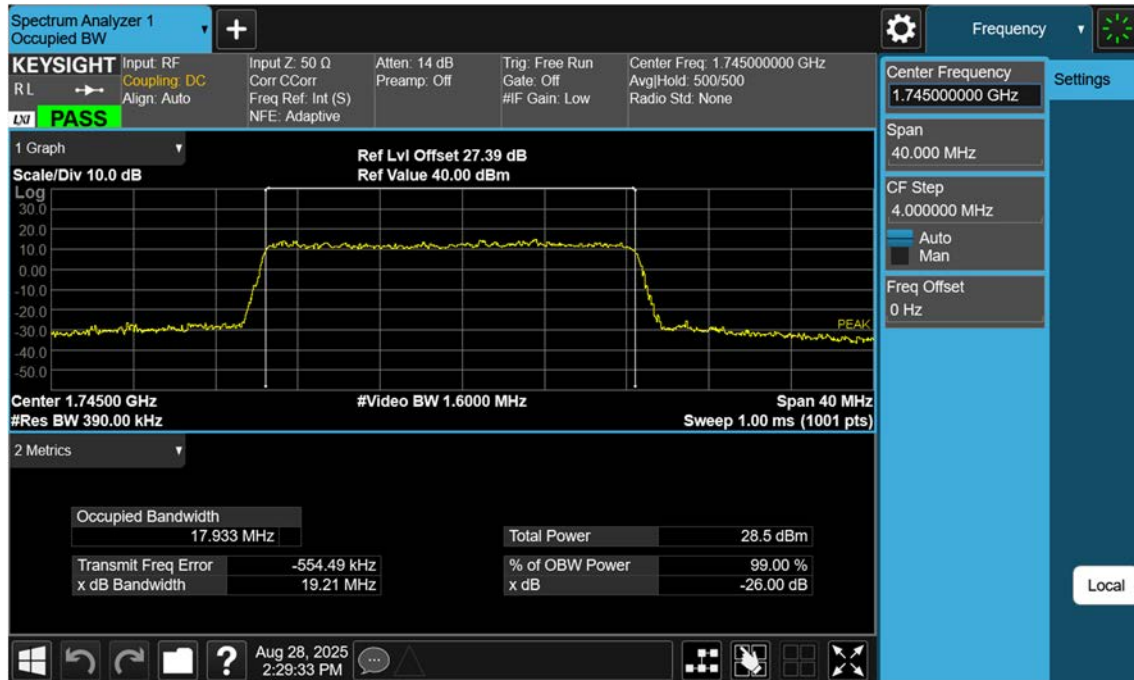
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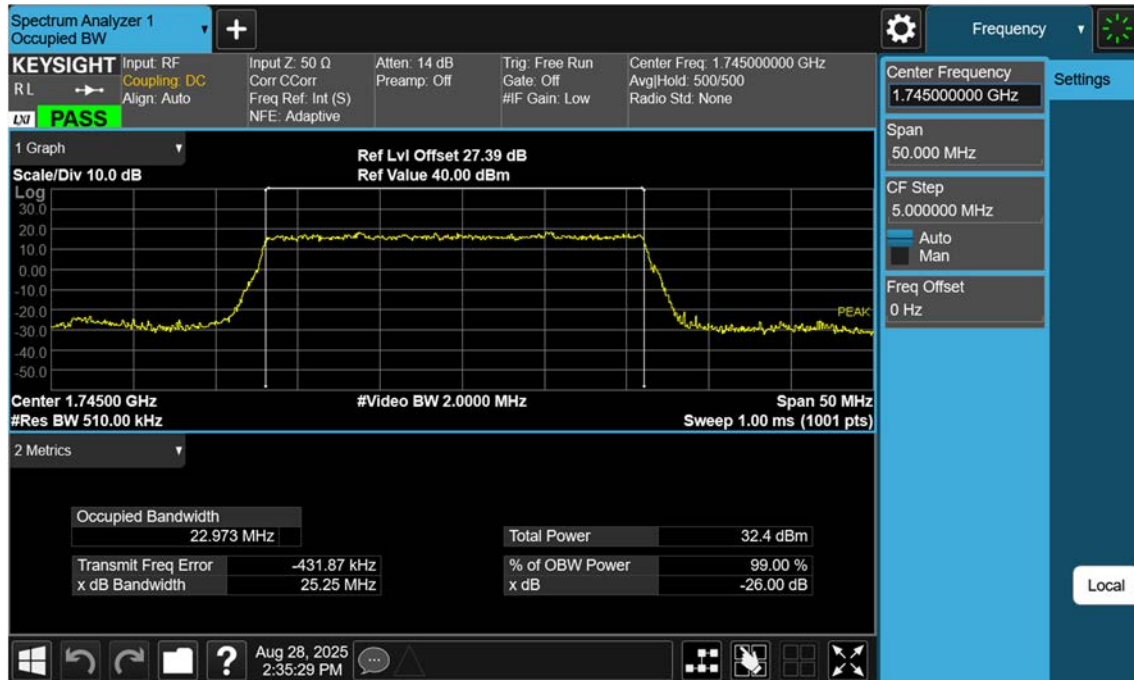
NR66_20 M_OBW_Mid_64QAM_FullRB



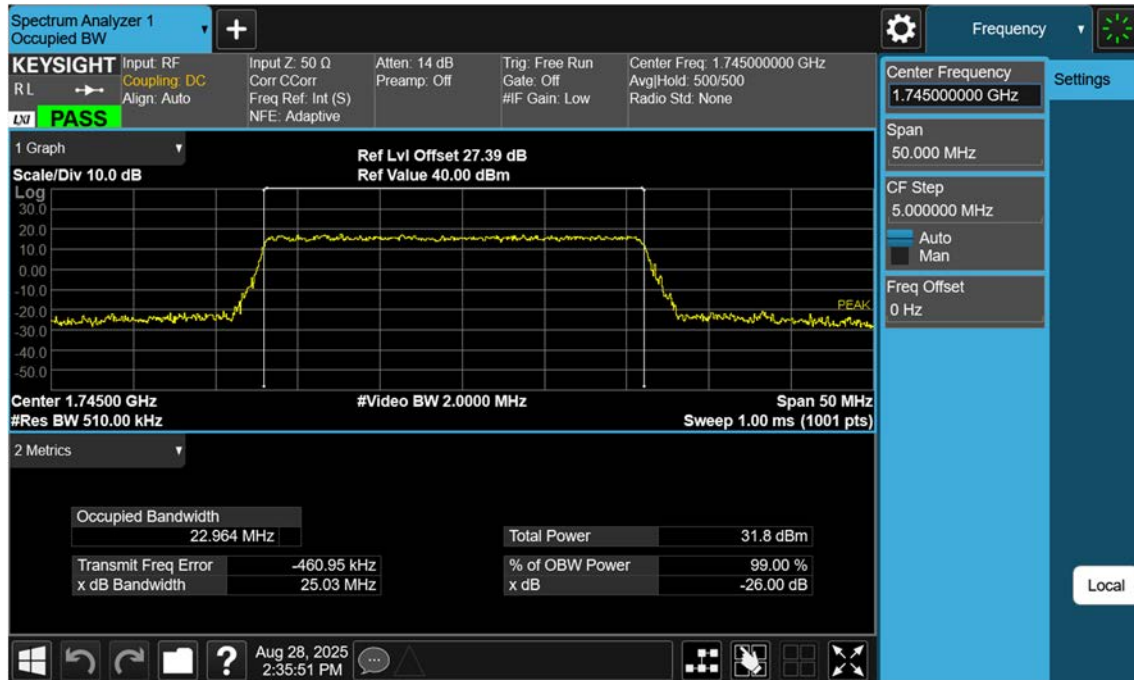
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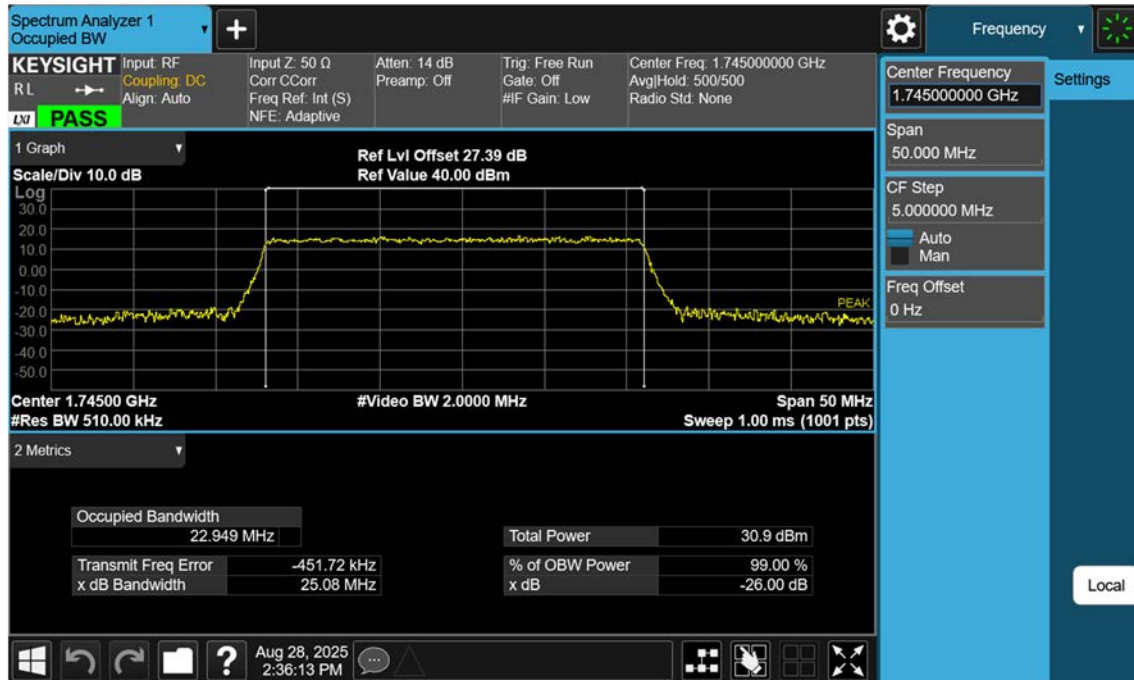
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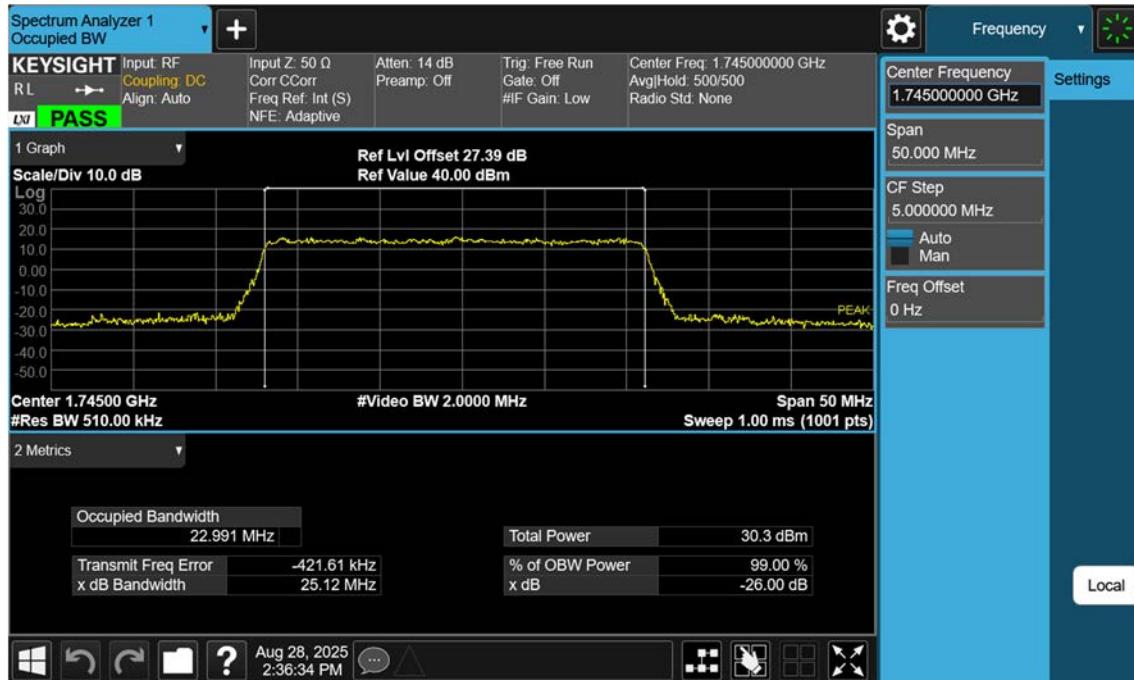
NR66_25 M_OBW_Mid_QPSK_FullRB



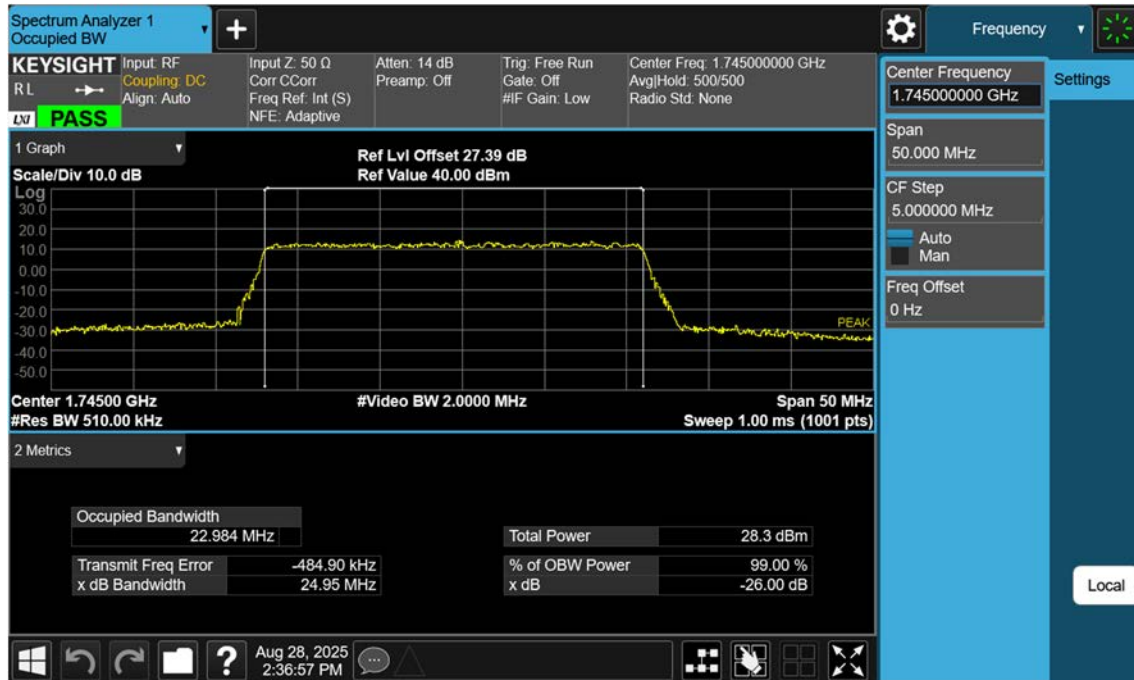
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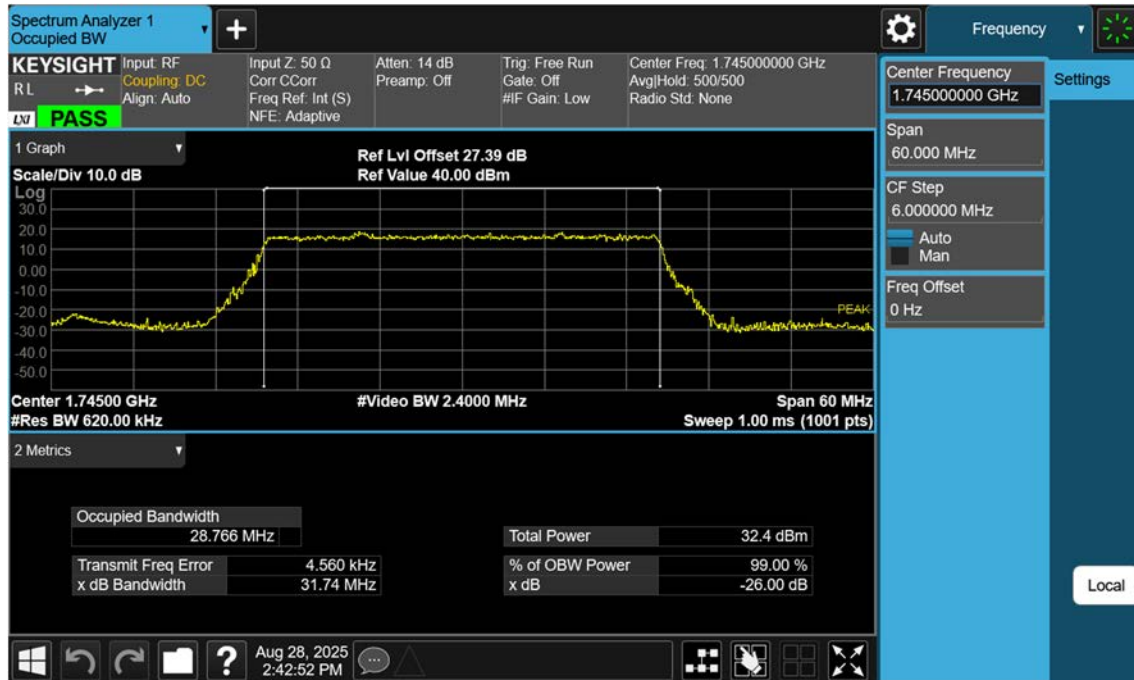
NR66_25 M_OBW_Mid_64QAM_FullRB



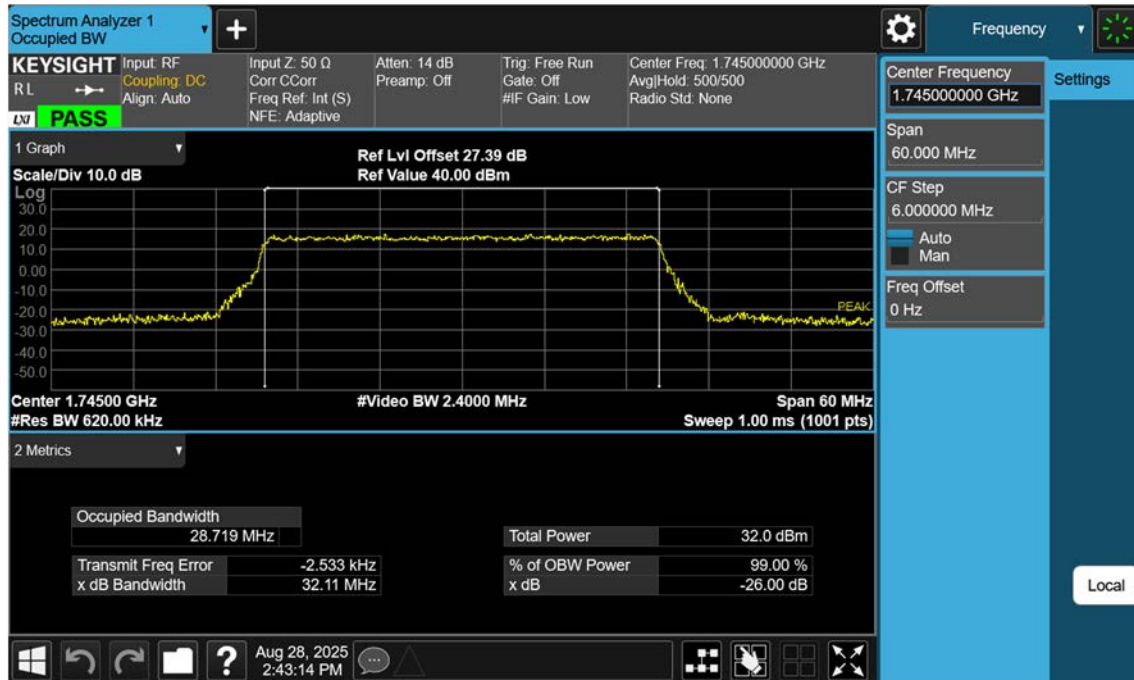
NR66_25 M_OBW_Mid_256QAM_FullRB



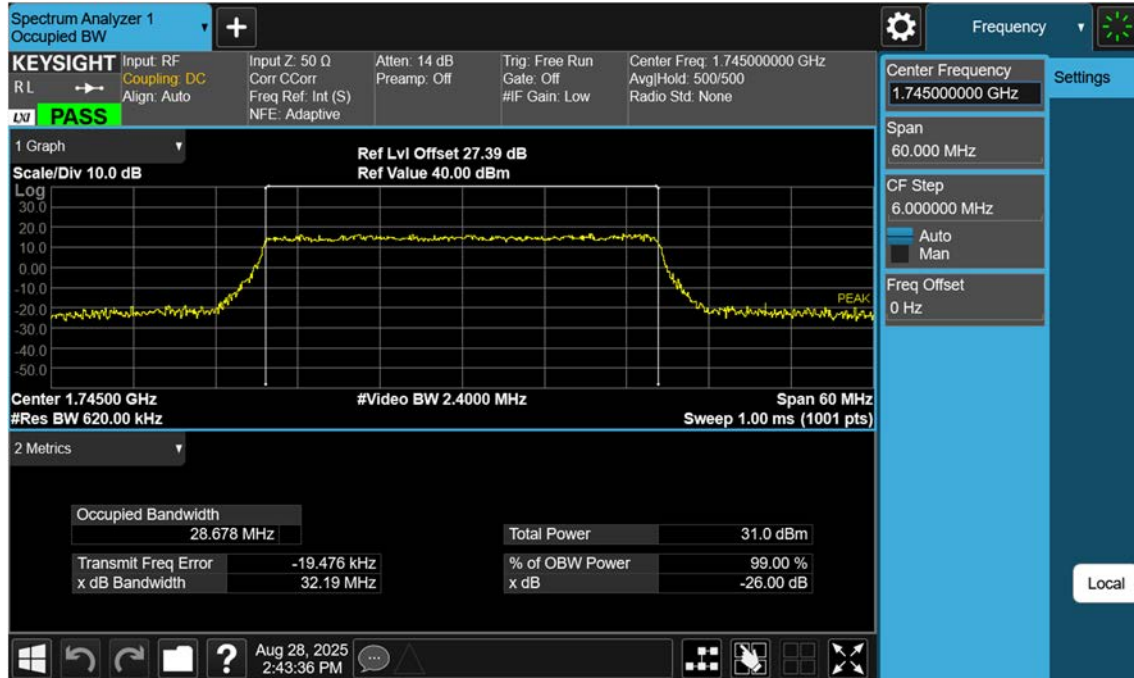
NR66_30 M_OBW_Mid_BPSK_FullRB



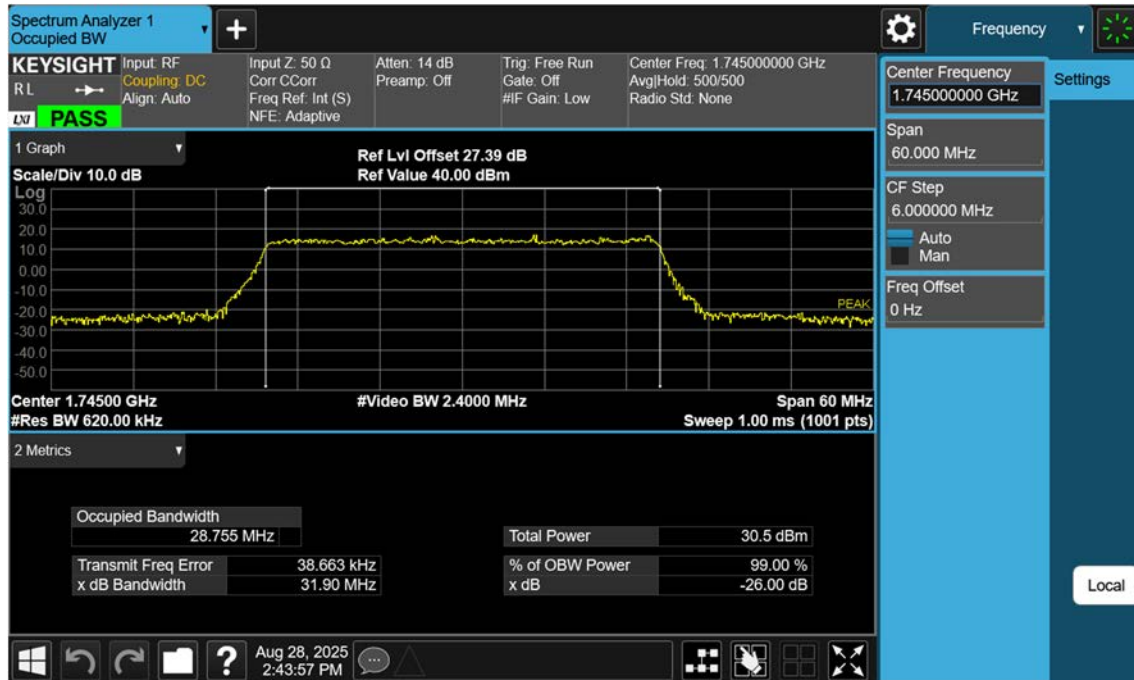
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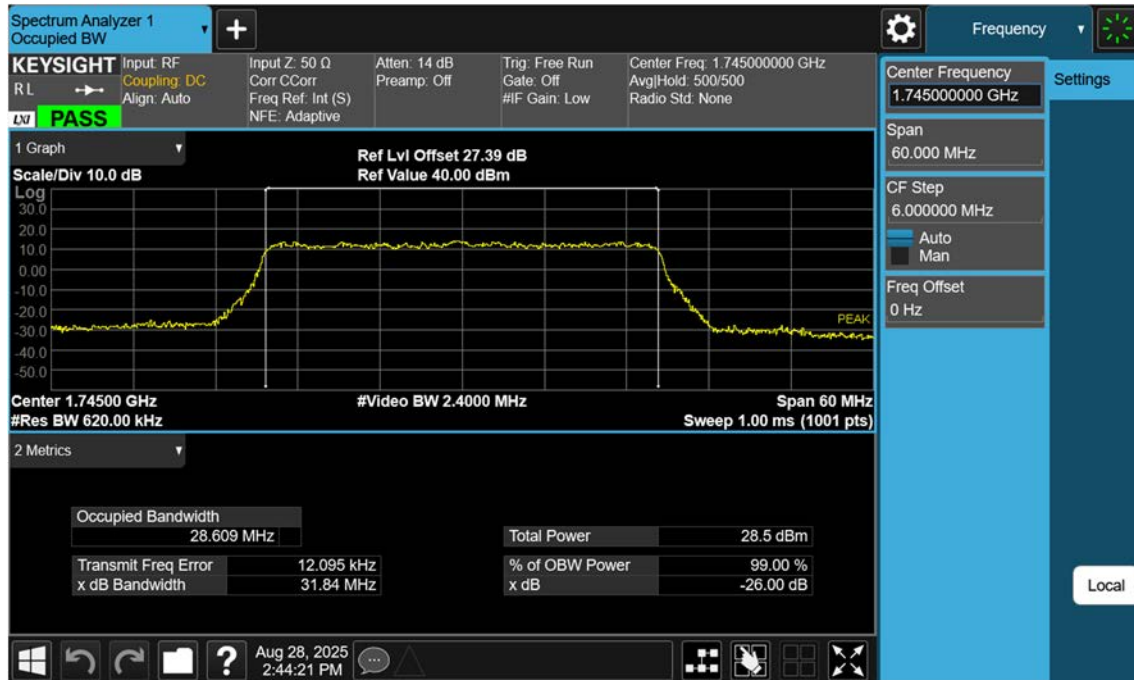
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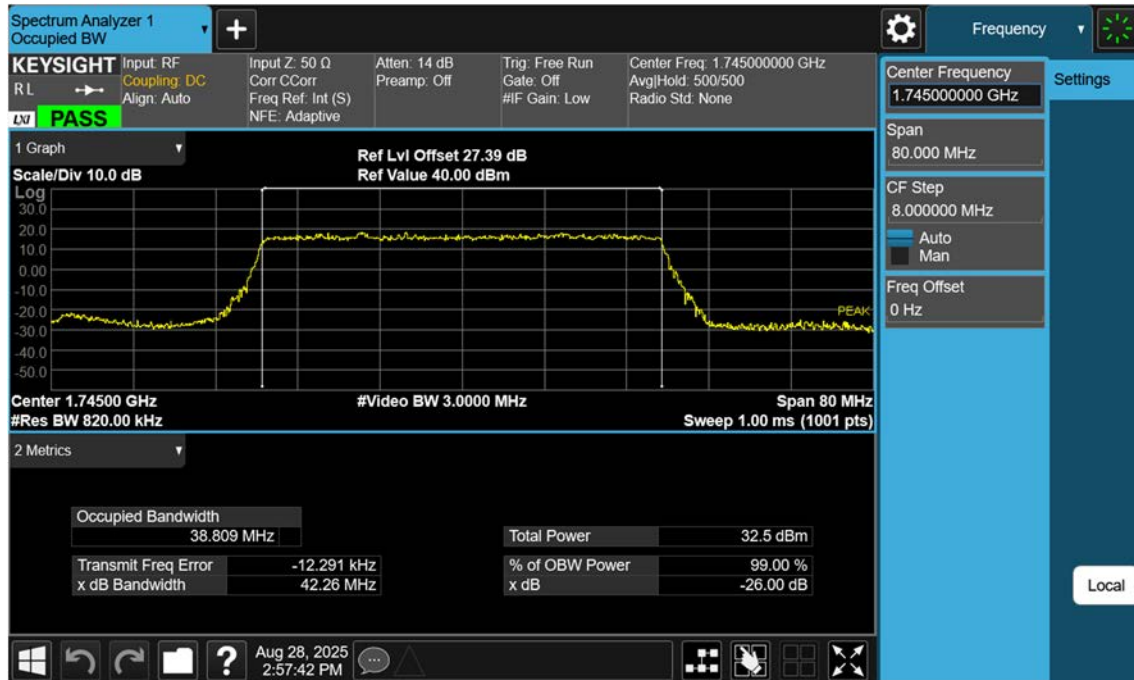
NR66_30 M_OBW_Mid_64QAM_FullRB



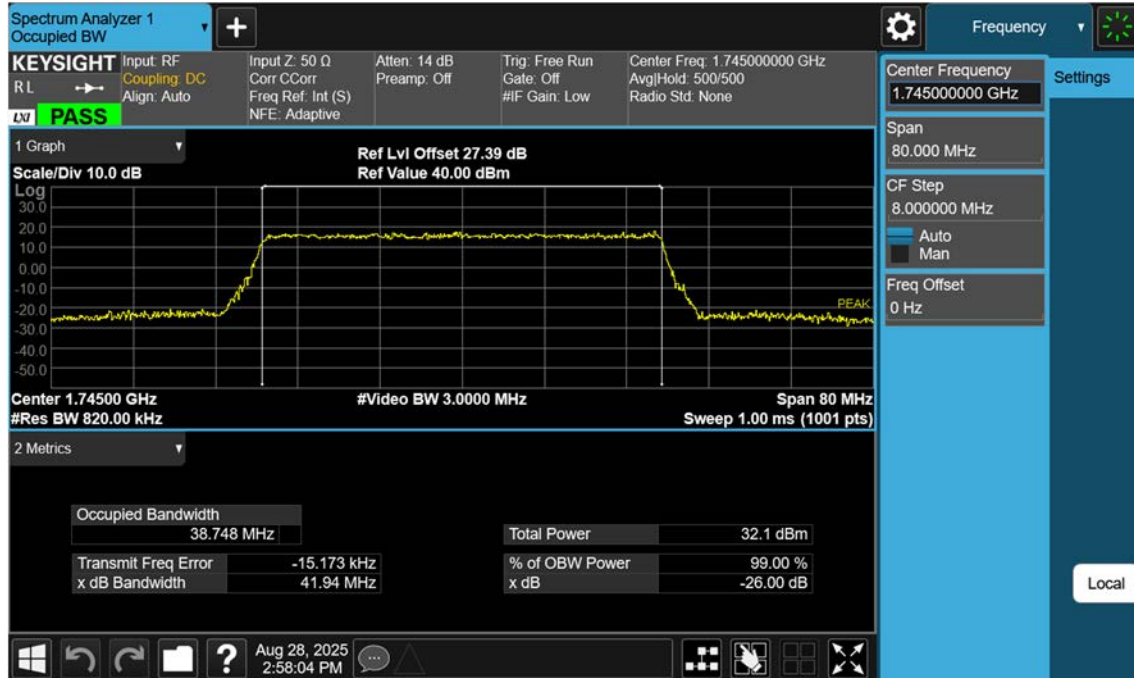
NR66_30 M_OBW_Mid_256QAM_FullRB



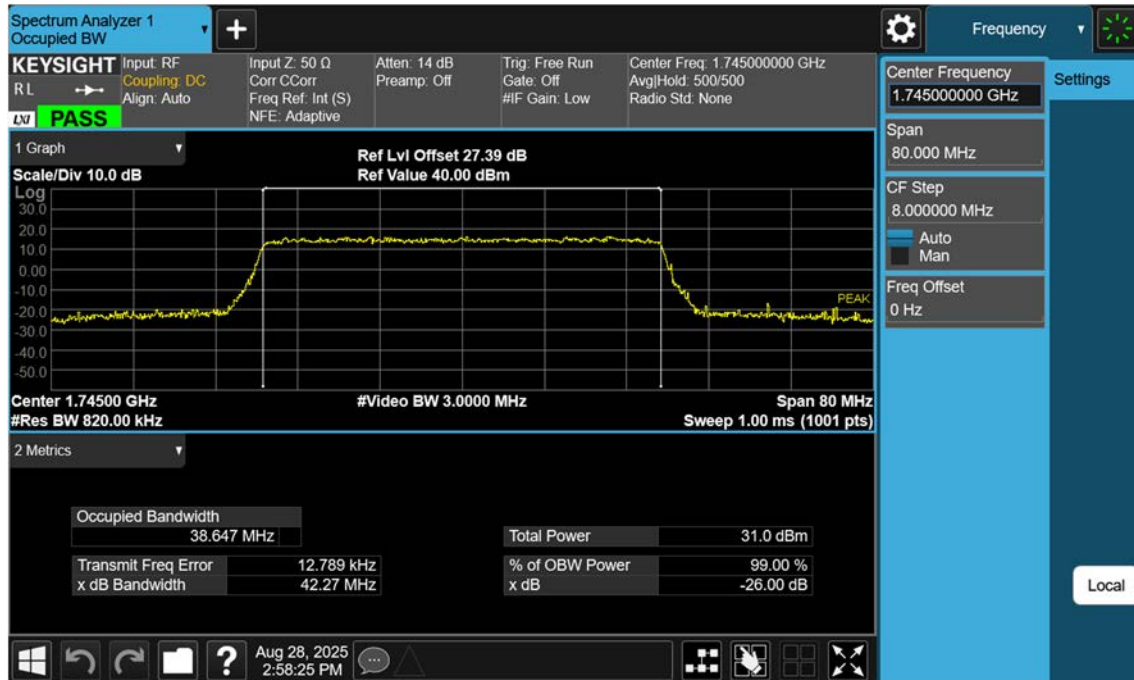
NR66_40 M_OBW_Mid_BPSK_FullRB



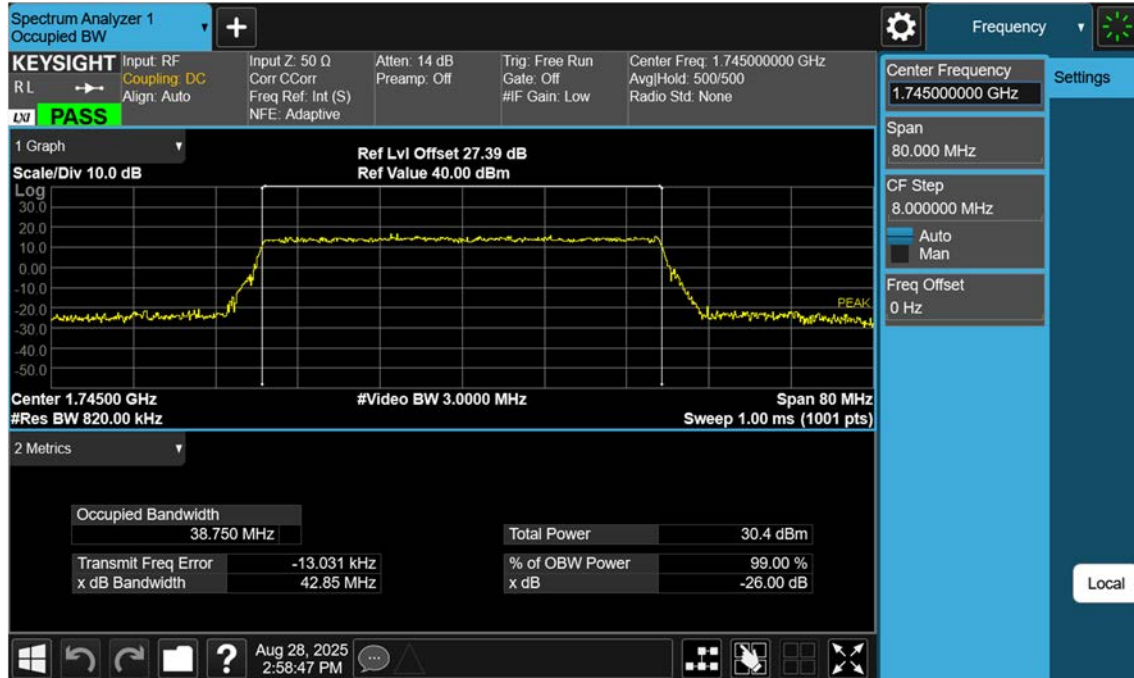
NR66_40 M_OBW_Mid_QPSK_FullRB



NR66_40 M_OBW_Mid_16QAM_FullRB



NR66_40 M_OBW_Mid_64QAM_FullRB



NR66_40 M_OBW_Mid_256QAM_FullRB

