

TEST REPORT

FCC Sub6 n77(78) Test for SM-X406B
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2506-FC087

DATE OF ISSUE
June 18, 2025

Tested by
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Applicant

SAMSUNG Electronics Co., Ltd.

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

Product Name

Tablet

Model Name

SM-X406B

Date of Test

April 24, 2025 ~ June 13, 2025

FCC ID

A3LSMX406B

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 (PCB)

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	June 18, 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

Applicant Name:	SAMSUNG Electronics Co., Ltd.
Address:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
FCC ID:	A3LSMX406B
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter (PCB)
FCC Rule Part(s):	§ 27
EUT Type:	Tablet
Model(s):	SM-X406B
SCS(kHz):	30
Bandwidth(MHz):	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
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: (3450 MHz - 3550 MHz)	3455.01 MHz - 3544.99 MHz (Sub6 n77(78)(10 MHz)) 3457.50 MHz - 3542.50 MHz (Sub6 n77(78)(15 MHz)) 3460.02 MHz - 3540.00 MHz (Sub6 n77(78)(20 MHz)) 3462.50 MHz - 3537.50 MHz (Sub6 n77(78)(25 MHz)) 3465.00 MHz - 3534.99 MHz (Sub6 n77(78)(30 MHz)) 3470.01 MHz - 3529.98 MHz (Sub6 n77(78)(40 MHz)) 3475.02 MHz - 3525.00 MHz (Sub6 n77(78)(50 MHz)) 3480.00 MHz - 3519.99 MHz (Sub6 n77(78)(60 MHz)) 3485.01 MHz - 3514.98 MHz (Sub6 n77(78)(70 MHz)) 3490.02 MHz - 3510.00 MHz (Sub6 n77(78)(80 MHz)) 3495.00 MHz - 3504.99 MHz (Sub6 n77(78)(90 MHz)) 3500.01 MHz (Sub6 n77(78)(100 MHz))
Tx Frequency: (3700 MHz - 3980 MHz)	3705.00 MHz - 3975.00 MHz (Sub6 n77(78)(10 MHz)) 3707.51 MHz - 3972.48 MHz (Sub6 n77(78)(15 MHz)) 3710.01 MHz - 3969.99 MHz (Sub6 n77(78)(20 MHz)) 3712.50 MHz - 3967.50 MHz (Sub6 n77(78)(25 MHz)) 3715.02 MHz - 3964.98 MHz (Sub6 n77(78)(30 MHz)) 3720.00 MHz - 3960.00 MHz (Sub6 n77(78)(40 MHz)) 3725.10 MHz - 3954.99 MHz (Sub6 n77(78)(50 MHz)) 3730.02 MHz - 3949.98 MHz (Sub6 n77(78)(60 MHz)) 3735.00 MHz - 3945.00 MHz (Sub6 n77(78)(70 MHz)) 3740.01 MHz - 3939.99 MHz (Sub6 n77(78)(80 MHz)) 3745.02 MHz - 3934.98 MHz (Sub6 n77(78)(90 MHz)) 3745.02 MHz - 3934.98 MHz (Sub6 n77(78)(90 MHz)) 3750.00 MHz - 3930.00 MHz (Sub6 n77(78)(100 MHz))
Date(s) of Tests:	April 24, 2025 ~ June 13, 2025
Serial number:	Radiated : R32Y4000YTK Conducted : R32Y40009RL
Antenna Information	Please refer to the Antenna Specification document.

1.1. MAXIMUM OUTPUT POWER

1. 3450 MHz - 3550 MHz

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n77(78) (10)	3455.01 – 3544.99	8M69G7D	PI/2 BPSK	0.577	27.61
		8M70G7D	QPSK	0.560	27.48
		8M67W7D	16QAM	0.463	26.66
		8M72W7D	64QAM	0.307	24.87
		8M67W7D	256QAM	0.200	23.01
Sub6 n77(78) (15)	3457.50 – 3542.50	13M0G7D	PI/2 BPSK	0.578	27.62
		13M0G7D	QPSK	0.564	27.51
		13M0W7D	16QAM	0.453	26.56
		13M0W7D	64QAM	0.302	24.80
		12M9W7D	256QAM	0.202	23.06
Sub6 n77(78) (20)	3460.02 – 3540.00	18M0G7D	PI/2 BPSK	0.600	27.78
		18M0G7D	QPSK	0.598	27.77
		18M0W7D	16QAM	0.463	26.66
		18M0W7D	64QAM	0.352	25.46
		18M0W7D	256QAM	0.210	23.22
Sub6 n77(78) (25)	3462.50 – 3537.50	23M0G7D	PI/2 BPSK	0.597	27.76
		23M0G7D	QPSK	0.596	27.75
		23M0W7D	16QAM	0.458	26.61
		23M1W7D	64QAM	0.327	25.14
		23M0W7D	256QAM	0.209	23.20
Sub6 n77(78) (30)	3465.00 – 3534.99	27M0G7D	PI/2 BPSK	0.604	27.81
		27M0G7D	QPSK	0.596	27.75
		27M0W7D	16QAM	0.479	26.80
		27M0W7D	64QAM	0.328	25.16
		27M0W7D	256QAM	0.210	23.23
Sub6 n77(78) (40)	3470.01 – 3529.98	36M0G7D	PI/2 BPSK	0.617	27.90
		36M0G7D	QPSK	0.612	27.87
		36M0W7D	16QAM	0.478	26.79
		35M9W7D	64QAM	0.348	25.41
		35M9W7D	256QAM	0.212	23.27
Sub6 n77(78) (50)	3475.02 – 3525.00	46M0G7D	PI/2 BPSK	0.612	27.87
		46M0G7D	QPSK	0.611	27.86
		46M0W7D	16QAM	0.486	26.87
		45M9W7D	64QAM	0.353	25.48
		46M0W7D	256QAM	0.215	23.32
Sub6 n77(78) (60)	3480.00 – 3519.99	58M2G7D	PI/2 BPSK	0.625	27.96
		58M2G7D	QPSK	0.624	27.95
		58M1W7D	16QAM	0.493	26.93
		58M2W7D	64QAM	0.353	25.48
		58M2W7D	256QAM	0.223	23.49
Sub6 n77(78) (70)	3485.01 – 3514.98	64M9G7D	PI/2 BPSK	0.644	28.09
		65M0G7D	QPSK	0.635	28.03
		64M6W7D	16QAM	0.504	27.02
		64M9W7D	64QAM	0.365	25.62
		64M9W7D	256QAM	0.228	23.58
Sub6 n77(78) (80)	3490.02 – 3510.00	77M7G7D	PI/2 BPSK	0.655	28.16
		77M6G7D	QPSK	0.644	28.09
		77M7W7D	16QAM	0.506	27.04
		77M7W7D	64QAM	0.363	25.60
		77M6W7D	256QAM	0.225	23.53
Sub6 n77(78) (90)	3495.00 – 3504.99	87M4G7D	PI/2 BPSK	0.625	27.96
		87M1G7D	QPSK	0.618	27.91
		87M2W7D	16QAM	0.498	26.97
		87M2W7D	64QAM	0.357	25.53
		87M3W7D	256QAM	0.221	23.44
Sub6 n77(78) (100)	3500.01	96M9G7D	PI/2 BPSK	0.582	27.65
		96M9G7D	QPSK	0.581	27.64
		97M0W7D	16QAM	0.466	26.68
		96M7W7D	64QAM	0.330	25.18
		96M7W7D	256QAM	0.207	23.15

2. 3700 MHz - 3980 MHz

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n77(78) (10)	3705.00 – 3975.00	8M64G7D	PI/2 BPSK	0.489	26.89
		8M65G7D	QPSK	0.486	26.87
		8M64W7D	16QAM	0.406	26.08
		8M67W7D	64QAM	0.274	24.37
		8M66W7D	256QAM	0.174	22.40
Sub6 n77(78) (15)	3707.51 – 3972.48	13M0G7D	PI/2 BPSK	0.492	26.92
		13M0G7D	QPSK	0.488	26.88
		13M0W7D	16QAM	0.396	25.98
		13M0W7D	64QAM	0.269	24.29
		13M1W7D	256QAM	0.171	22.33
Sub6 n77(78) (20)	3710.01 – 3969.99	18M0G7D	PI/2 BPSK	0.484	26.85
		18M0G7D	QPSK	0.482	26.83
		17M9W7D	16QAM	0.386	25.87
		18M0W7D	64QAM	0.265	24.24
		18M0W7D	256QAM	0.169	22.28
Sub6 n77(78) (25)	3712.50 – 3967.50	23M0G7D	PI/2 BPSK	0.482	26.83
		23M0G7D	QPSK	0.479	26.80
		22M9W7D	16QAM	0.384	25.84
		23M0W7D	64QAM	0.264	24.22
		22M9W7D	256QAM	0.166	22.20
Sub6 n77(78) (30)	3715.02 – 3964.98	27M0G7D	PI/2 BPSK	0.486	26.87
		27M0G7D	QPSK	0.481	26.82
		27M0W7D	16QAM	0.393	25.94
		27M0W7D	64QAM	0.271	24.33
		26M9W7D	256QAM	0.174	22.41
Sub6 n77(78) (40)	3720.00 – 3960.00	36M0G7D	PI/2 BPSK	0.486	26.87
		36M0G7D	QPSK	0.479	26.80
		35M9W7D	16QAM	0.382	25.82
		36M0W7D	64QAM	0.276	24.41
		35M9W7D	256QAM	0.175	22.44
Sub6 n77(78) (50)	3725.10 – 3954.99	45M9G7D	PI/2 BPSK	0.491	26.91
		45M9G7D	QPSK	0.482	26.83
		46M0W7D	16QAM	0.385	25.85
		45M9W7D	64QAM	0.273	24.36
		46M0W7D	256QAM	0.171	22.33
Sub6 n77(78) (60)	3730.02 – 3949.98	58M2G7D	PI/2 BPSK	0.484	26.85
		58M1G7D	QPSK	0.482	26.83
		58M2W7D	16QAM	0.399	26.01
		58M1W7D	64QAM	0.269	24.30
		58M1W7D	256QAM	0.176	22.45
Sub6 n77(78) (70)	3735.00 – 3945.00	64M8G7D	PI/2 BPSK	0.493	26.93
		64M7G7D	QPSK	0.479	26.80
		64M6W7D	16QAM	0.390	25.91
		64M5W7D	64QAM	0.258	24.12
		64M6W7D	256QAM	0.173	22.37
Sub6 n77(78) (80)	3740.01 – 3939.99	77M5G7D	PI/2 BPSK	0.494	26.94
		77M5G7D	QPSK	0.483	26.84
		77M3W7D	16QAM	0.394	25.95
		77M4W7D	64QAM	0.264	24.21
		77M5W7D	256QAM	0.172	22.36
Sub6 n77(78) (90)	3745.02 – 3934.98	87M1G7D	PI/2 BPSK	0.497	26.96
		87M1G7D	QPSK	0.489	26.89
		87M2W7D	16QAM	0.406	26.09
		87M1W7D	64QAM	0.271	24.33
		87M3W7D	256QAM	0.172	22.35
Sub6 n77(78) (100)	3750.00 – 3930.00	96M7G7D	PI/2 BPSK	0.501	27.00
		96M7G7D	QPSK	0.490	26.90
		96M5W7D	16QAM	0.392	25.93
		96M6W7D	64QAM	0.281	24.49
		96M3W7D	256QAM	0.177	22.47

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

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	- N/A (See SAR Report)
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 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points > 2 x 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;

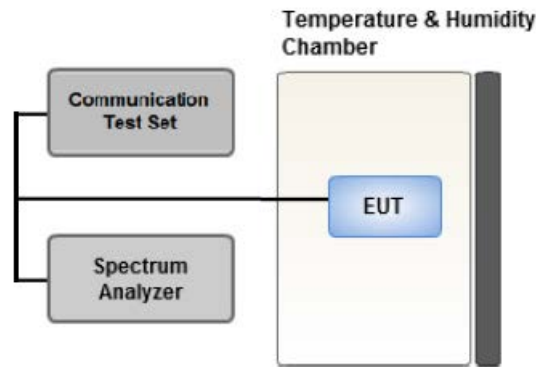
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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)

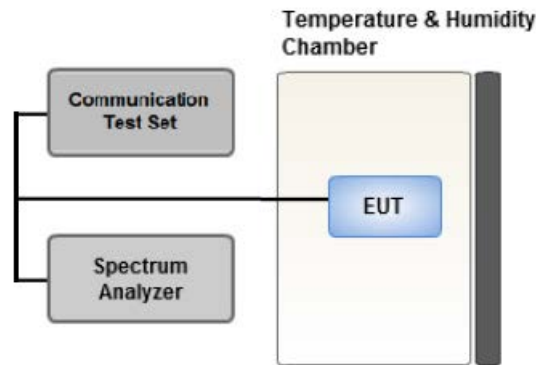
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

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.

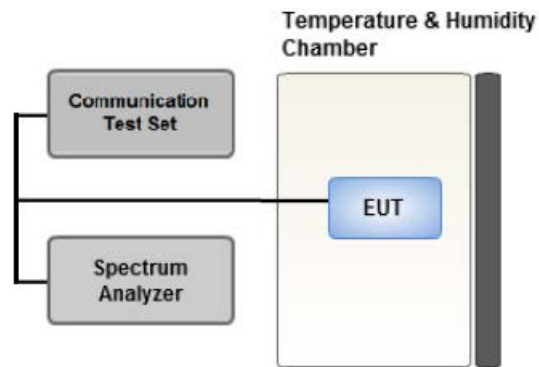
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

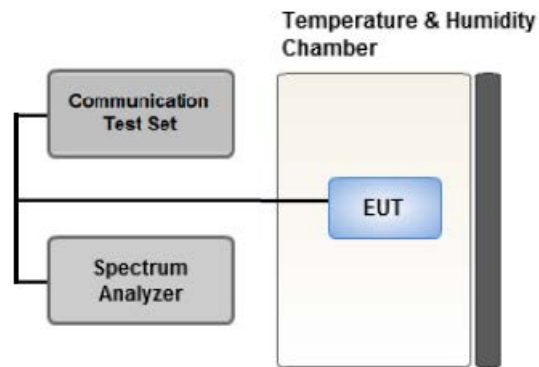
Test Overview

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 x Span / 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

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater.

However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz.

In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

Measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater.

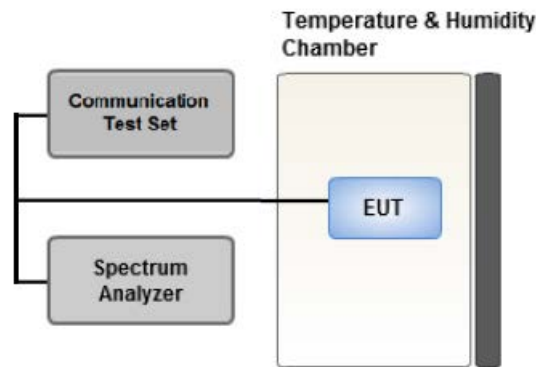
However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz.

In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. .

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)

- 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.
- NR n77 (3450 – 3550 MHz / 3700 – 3980 MHz) overlaps the entire frequency range of NR n78 (3450 - 3550 MHz / 3700 – 3800 MHz) and they have the same Tune-up power.
- All modes of operation were investigated and the worst case configuration results are reported.
Mode: NSA, SA
Worst case: SA
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.
- All power classes were tested, and the results were reported for the worst case PC2.
- 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 were investigated and the worst case bandwidth results are reported.
(Worst case : 80 MHz(3450 MHz – 3550 MHz), 100 MHz (3700 MHz – 3980 MHz))

[3450 MHz - 3550 MHz 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

[3700 MHz - 3980 MHz 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		Z

3.10 WORST CASE(CONDUCTED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
(Worst case: DFT-S-OFDM)
- Modulation : All Modulation of operation were investigated and the worst case configuration results are reported.
(Worst case: PI/2 BPSK)
- NR n77 (3450 – 3550 MHz / 3700 – 3980 MHz) overlaps the entire frequency range of NR n78 (3450 -3550 MHz / 3700 – 3800 MHz) and they have the same Tune-up power.
- All modes of operation were investigated and the worst case configuration results are reported.
Mode: NSA, SA
Worst case: SA
- All power classes were tested, and the results were reported for the worst case PC2.
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth,	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100	Mid	Full RB	0
Peak-To-Average Ratio	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100	Mid	Full RB	0
Band Edge	PI/2 BPSK	10	Low	1	0
			High	1	23
		15	Low	1	0
			High	1	37
		20	Low	1	0
			High	1	50
		25	Low	1	0
			High	1	64
		30	Low	1	0
			High	1	77
		40	Low	1	0
			High	1	105
		50	Low	1	0
			High	1	132
		60	Low	1	0
			High	1	161
		70	Low	1	0
			High	1	188
		80	Low	1	0
			High	1	216
		90	Low	1	0
			High	1	244
		100	Low	1	0
			High	1	272
		10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100	Low, High	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	PI/2 BPSK	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100	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	08/22/2025	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	08/05/2025	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
4-Way Divider	ZC4PD-K1844+	Mini-Circuits	942907	09/10/2025	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/26/2025	Annual
Automation Software	FCC NR Conducted	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(n)(2), § 27.53(l)(2)	< -13 dBm	PASS
Conducted Output Power	§ 2.1046	N/A	Note1
Peak- to- Average Ratio	§ 27.50(k)(4), § 27.50(j)(4)	< 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(k)(3), § 27.50(j)(3)	< 1 Watts max. EIRP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1051, § 27.53(n)(2), § 27.53(l)(2)	< -13 dBm	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(3450 MHz - 3550 MHz)

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
3455.01	Sub6 n77(78)/ 10 MHz [30 kHz]	PI/2 BPSK	-19.69	18.29	11.96	3.04	H	< 1.00	0.526	27.21	1	22
		QPSK	-19.74	18.24	11.96	3.04	H		0.520	27.16		
		16-QAM	-20.75	17.23	11.96	3.04	H		0.412	26.15		
		64-QAM	-22.21	15.77	11.96	3.04	H		0.294	24.69		
		256-QAM	-24.25	13.73	11.96	3.04	H		0.184	22.65		
3500.01		PI/2 BPSK	-19.71	18.61	12.04	3.04	H		0.577	27.61	1	12
		QPSK	-19.84	18.48	12.04	3.04	H		0.560	27.48		
		16-QAM	-20.66	17.66	12.04	3.04	H		0.463	26.66		
		64-QAM	-22.45	15.87	12.04	3.04	H		0.307	24.87		
		256-QAM	-24.31	14.01	12.04	3.04	H		0.200	23.01		
3544.99		PI/2 BPSK	-20.23	18.12	12.04	3.07	H		0.512	27.09	1	12
		QPSK	-20.37	17.98	12.04	3.07	H		0.495	26.95		
		16-QAM	-21.11	17.24	12.04	3.07	H		0.418	26.21		
		64-QAM	-22.94	15.41	12.04	3.07	H		0.274	24.38		
		256-QAM	-24.75	13.60	12.04	3.07	H		0.181	22.57		

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
3457.50	Sub6 n77(78)/ 15 MHz [30 kHz]	PI/2 BPSK	-19.61	18.40	12.00	3.04	H	< 1.00	0.545	27.36	1	36
		QPSK	-19.63	18.38	12.00	3.04	H		0.542	27.34		
		16-QAM	-20.59	17.42	12.00	3.04	H		0.435	26.38		
		64-QAM	-22.17	15.84	12.00	3.04	H		0.302	24.80		
		256-QAM	-24.17	13.84	12.00	3.04	H		0.191	22.80		
3500.01		PI/2 BPSK	-19.70	18.62	12.04	3.04	H		0.578	27.62	1	19
		QPSK	-19.81	18.51	12.04	3.04	H		0.564	27.51		
		16-QAM	-20.76	17.56	12.04	3.04	H		0.453	26.56		
		64-QAM	-22.52	15.80	12.04	3.04	H		0.302	24.80		
		256-QAM	-24.26	14.06	12.04	3.04	H		0.202	23.06		
3542.50		PI/2 BPSK	-20.15	18.20	12.04	3.07	H	0.521	27.17	1	1	
		QPSK	-20.21	18.14	12.04	3.07	H	0.514	27.11			
		16-QAM	-21.17	17.18	12.04	3.07	H	0.412	26.15			
		64-QAM	-22.57	15.78	12.04	3.07	H	0.299	24.75			
		256-QAM	-24.71	13.64	12.04	3.07	H	0.182	22.61			

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
3460.02	Sub6 n77(78)/ 20 MHz [30 kHz]	PI/2 BPSK	-19.49	18.52	12.00	3.04	H	< 1.00	0.560	27.48	1	49
		QPSK	-19.53	18.48	12.00	3.04	H		0.555	27.44		
		16-QAM	-20.51	17.50	12.00	3.04	H		0.443	26.46		
		64-QAM	-22.14	15.87	12.00	3.04	H		0.304	24.83		
		256-QAM	-24.08	13.93	12.00	3.04	H		0.195	22.89		
3500.01		PI/2 BPSK	-19.54	18.78	12.04	3.04	H		0.600	27.78	1	1
		QPSK	-19.55	18.77	12.04	3.04	H		0.598	27.77		
		16-QAM	-20.66	17.66	12.04	3.04	H		0.463	26.66		
		64-QAM	-21.86	16.46	12.04	3.04	H		0.352	25.46		
		256-QAM	-24.10	14.22	12.04	3.04	H		0.210	23.22		
3540.00		PI/2 BPSK	-19.98	18.30	12.04	3.06	H		0.535	27.28	1	1
		QPSK	-20.07	18.21	12.04	3.06	H		0.524	27.19		
		16-QAM	-20.98	17.30	12.04	3.06	H		0.425	26.28		
		64-QAM	-22.57	15.71	12.04	3.06	H		0.294	24.69		
		256-QAM	-24.53	13.75	12.04	3.06	H		0.187	22.73		

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
3462.50	Sub6 n77(78)/ 25 MHz [30 kHz]	PI/2 BPSK	-19.49	18.51	12.02	3.02	H	< 1.00	0.564	27.51	1	63
		QPSK	-19.53	18.47	12.02	3.02	H		0.558	27.47		
		16-QAM	-20.74	17.26	12.02	3.02	H		0.423	26.26		
		64-QAM	-21.94	16.06	12.02	3.02	H		0.321	25.06		
		256-QAM	-23.90	14.10	12.02	3.02	H		0.204	23.10		
3500.01		PI/2 BPSK	-19.56	18.76	12.04	3.04	H		0.597	27.76	1	1
		QPSK	-19.57	18.75	12.04	3.04	H		0.596	27.75		
		16-QAM	-20.71	17.61	12.04	3.04	H		0.458	26.61		
		64-QAM	-22.18	16.14	12.04	3.04	H		0.327	25.14		
		256-QAM	-24.12	14.20	12.04	3.04	H		0.209	23.20		
3537.50		PI/2 BPSK	-19.98	18.30	12.04	3.06	H		0.535	27.28	1	1
		QPSK	-20.03	18.25	12.04	3.06	H		0.528	27.23		
		16-QAM	-21.19	17.09	12.04	3.06	H		0.405	26.07		
		64-QAM	-22.51	15.77	12.04	3.06	H		0.299	24.75		
		256-QAM	-24.59	13.69	12.04	3.06	H		0.185	22.67		

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
3465.00		PI/2 BPSK	-19.45	18.55	12.02	3.02	H	< 1.00	0.569	27.55	1	39
		QPSK	-19.62	18.38	12.02	3.02	H		0.547	27.38		
		16-QAM	-20.59	17.41	12.02	3.02	H		0.438	26.41		
		64-QAM	-22.22	15.78	12.02	3.02	H		0.301	24.78		
		256-QAM	-24.06	13.94	12.02	3.02	H		0.197	22.94		
3500.01	Sub6 n77(78)/ 30 MHz [30 kHz]	PI/2 BPSK	-19.51	18.81	12.04	3.04	H	< 1.00	0.604	27.81	1	1
		QPSK	-19.57	18.75	12.04	3.04	H		0.596	27.75		
		16-QAM	-20.52	17.80	12.04	3.04	H		0.479	26.80		
		64-QAM	-22.16	16.16	12.04	3.04	H		0.328	25.16		
		256-QAM	-24.09	14.23	12.04	3.04	H		0.210	23.23		
3534.99		PI/2 BPSK	-19.80	18.50	12.04	3.05	H	< 1.00	0.561	27.49	1	1
		QPSK	-19.87	18.43	12.04	3.05	H		0.552	27.42		
		16-QAM	-20.77	17.53	12.04	3.05	H		0.449	26.52		
		64-QAM	-22.40	15.90	12.04	3.05	H		0.308	24.89		
		256-QAM	-24.33	13.97	12.04	3.05	H		0.198	22.96		

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
3470.01	Sub6 n77(78)/ 40 MHz [30 kHz]	PI/2 BPSK	-19.49	18.51	12.04	3.01	H	< 1.00	0.568	27.54	1	53
		QPSK	-19.52	18.48	12.04	3.01	H		0.564	27.51		
		16-QAM	-20.48	17.52	12.04	3.01	H		0.452	26.55		
		64-QAM	-22.13	15.87	12.04	3.01	H		0.309	24.90		
		256-QAM	-23.97	14.03	12.04	3.01	H		0.202	23.06		
3500.01		PI/2 BPSK	-19.42	18.90	12.04	3.04	H		0.617	27.90	1	1
		QPSK	-19.45	18.87	12.04	3.04	H		0.612	27.87		
		16-QAM	-20.53	17.79	12.04	3.04	H		0.478	26.79		
		64-QAM	-21.91	16.41	12.04	3.04	H		0.348	25.41		
		256-QAM	-24.05	14.27	12.04	3.04	H		0.212	23.27		
3529.98		PI/2 BPSK	-19.84	18.48	12.04	3.05	H		0.558	27.47	1	1
		QPSK	-19.87	18.45	12.04	3.05	H		0.555	27.44		
		16-QAM	-20.85	17.47	12.04	3.05	H		0.443	26.46		
		64-QAM	-22.36	15.96	12.04	3.05	H		0.313	24.95		
		256-QAM	-24.35	13.97	12.04	3.05	H		0.198	22.96		

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
3475.02	Sub6 n77(78)/ 50 MHz [30 kHz]	PI/2 BPSK	-19.31	18.71	12.04	3.02	H	< 1.00	0.593	27.73	1	66
		QPSK	-19.39	18.63	12.04	3.02	H		0.582	27.65		
		16-QAM	-20.56	17.46	12.04	3.02	H		0.445	26.48		
		64-QAM	-21.97	16.05	12.04	3.02	H		0.321	25.07		
		256-QAM	-23.85	14.17	12.04	3.02	H		0.208	23.19		
3500.01		PI/2 BPSK	-19.45	18.87	12.04	3.04	H		0.612	27.87	1	1
		QPSK	-19.46	18.86	12.04	3.04	H		0.611	27.86		
		16-QAM	-20.45	17.87	12.04	3.04	H		0.486	26.87		
		64-QAM	-21.84	16.48	12.04	3.04	H		0.353	25.48		
		256-QAM	-24.00	14.32	12.04	3.04	H		0.215	23.32		
3525.00		PI/2 BPSK	-19.86	18.54	12.04	3.04	H		0.568	27.54	1	1
		QPSK	-19.89	18.51	12.04	3.04	H		0.564	27.51		
		16-QAM	-20.87	17.53	12.04	3.04	H		0.450	26.53		
		64-QAM	-22.23	16.17	12.04	3.04	H		0.329	25.17		
		256-QAM	-24.33	14.07	12.04	3.04	H		0.203	23.07		

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
3480.00		PI/2 BPSK	-19.39	18.64	12.04	3.02	H	< 1.00	0.583	27.66	1	82
		QPSK	-19.45	18.58	12.04	3.02	H		0.575	27.60		
		16-QAM	-20.35	17.68	12.04	3.02	H		0.468	26.70		
		64-QAM	-21.94	16.09	12.04	3.02	H		0.324	25.11		
		256-QAM	-23.97	14.06	12.04	3.02	H		0.203	23.08		
3500.01	Sub6 n77(78)/ 60 MHz [30 kHz]	PI/2 BPSK	-19.53	18.79	12.04	3.04	H	< 1.00	0.601	27.79	1	1
		QPSK	-19.54	18.78	12.04	3.04	H		0.600	27.78		
		16-QAM	-20.45	17.87	12.04	3.04	H		0.486	26.87		
		64-QAM	-21.98	16.34	12.04	3.04	H		0.342	25.34		
		256-QAM	-24.02	14.30	12.04	3.04	H		0.214	23.30		
3519.99		PI/2 BPSK	-19.53	18.96	12.04	3.04	H	< 1.00	0.625	27.96	1	1
		QPSK	-19.54	18.95	12.04	3.04	H		0.624	27.95		
		16-QAM	-20.56	17.93	12.04	3.04	H		0.493	26.93		
		64-QAM	-22.01	16.48	12.04	3.04	H		0.353	25.48		
		256-QAM	-24.00	14.49	12.04	3.04	H		0.223	23.49		

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
3485.01		PI/2 BPSK	-19.33	18.77	12.04	3.03	H	< 1.00	0.600	27.78	1	94
		QPSK	-19.43	18.67	12.04	3.03	H		0.586	27.68		
		16-QAM	-20.47	17.63	12.04	3.03	H		0.461	26.64		
		64-QAM	-21.91	16.19	12.04	3.03	H		0.331	25.20		
		256-QAM	-23.91	14.19	12.04	3.03	H		0.209	23.20		
3500.01	Sub6 n77(78)/ 70 MHz [30 kHz]	PI/2 BPSK	-19.48	18.84	12.04	3.04	H	< 1.00	0.608	27.84	1	1
		QPSK	-19.55	18.77	12.04	3.04	H		0.598	27.77		
		16-QAM	-20.43	17.89	12.04	3.04	H		0.489	26.89		
		64-QAM	-21.86	16.46	12.04	3.04	H		0.352	25.46		
		256-QAM	-24.07	14.25	12.04	3.04	H		0.211	23.25		
3514.98		PI/2 BPSK	-19.43	19.09	12.04	3.04	H	< 1.00	0.644	28.09	1	1
		QPSK	-19.49	19.03	12.04	3.04	H		0.635	28.03		
		16-QAM	-20.50	18.02	12.04	3.04	H		0.504	27.02		
		64-QAM	-21.90	16.62	12.04	3.04	H		0.365	25.62		
		256-QAM	-23.94	14.58	12.04	3.04	H		0.228	23.58		

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
3490.02	Sub6 n77(78)/ 80 MHz [30 kHz]	PI/2 BPSK	-19.36	18.81	12.04	3.04	H	< 1.00	0.604	27.81	1	108
		QPSK	-19.37	18.80	12.04	3.04	H		0.603	27.80		
		16-QAM	-20.31	17.86	12.04	3.04	H		0.485	26.86		
		64-QAM	-22.04	16.13	12.04	3.04	H		0.326	25.13		
		256-QAM	-23.99	14.18	12.04	3.04	H		0.208	23.18		
3500.01		PI/2 BPSK	-19.54	18.78	12.04	3.04	H		0.600	27.78	1	1
		QPSK	-19.57	18.75	12.04	3.04	H		0.596	27.75		
		16-QAM	-20.44	17.88	12.04	3.04	H		0.488	26.88		
		64-QAM	-22.17	16.15	12.04	3.04	H		0.327	25.15		
		256-QAM	-24.22	14.10	12.04	3.04	H		0.204	23.10		
3510.00		PI/2 BPSK	-19.40	19.17	12.04	3.05	H		0.655	28.16	1	1
		QPSK	-19.47	19.10	12.04	3.05	H		0.644	28.09		
		16-QAM	-20.52	18.05	12.04	3.05	H		0.506	27.04		
		64-QAM	-21.96	16.61	12.04	3.05	H		0.363	25.60		
		256-QAM	-24.03	14.54	12.04	3.05	H		0.225	23.53		

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
3495.00		PI/2 BPSK	-19.54	18.71	12.04	3.04	H	< 1.00	0.590	27.71	1	122
		QPSK	-19.65	18.60	12.04	3.04	H		0.575	27.60		
		16-QAM	-20.60	17.65	12.04	3.04	H		0.462	26.65		
		64-QAM	-22.25	16.00	12.04	3.04	H		0.316	25.00		
		256-QAM	-24.18	14.07	12.04	3.04	H		0.203	23.07		
3500.01	Sub6 n77(78)/ 90 MHz [30 kHz]	PI/2 BPSK	-19.59	18.73	12.04	3.04	H	< 1.00	0.593	27.73	1	1
		QPSK	-19.61	18.71	12.04	3.04	H		0.590	27.71		
		16-QAM	-20.60	17.72	12.04	3.04	H		0.470	26.72		
		64-QAM	-22.02	16.30	12.04	3.04	H		0.339	25.30		
		256-QAM	-24.19	14.13	12.04	3.04	H		0.206	23.13		
3504.99		PI/2 BPSK	-19.48	18.97	12.04	3.05	H	< 1.00	0.625	27.96	1	1
		QPSK	-19.53	18.92	12.04	3.05	H		0.618	27.91		
		16-QAM	-20.47	17.98	12.04	3.05	H		0.498	26.97		
		64-QAM	-21.91	16.54	12.04	3.05	H		0.357	25.53		
		256-QAM	-24.00	14.45	12.04	3.05	H		0.221	23.44		

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
3500.01	Sub6 n77(78)/ 100 MHz [30 kHz]	PI/2 BPSK	-19.67	18.65	12.04	3.04	H	< 1.00	0.582	27.65	1	1
		QPSK	-19.68	18.64	12.04	3.04	H		0.581	27.64		
		16-QAM	-20.64	17.68	12.04	3.04	H		0.466	26.68		
		64-QAM	-22.14	16.18	12.04	3.04	H		0.330	25.18		
		256-QAM	-24.17	14.15	12.04	3.04	H		0.207	23.15		

8.2 RADIATED SPURIOUS EMISSIONS

NR Band:	<u>N77(78)</u>
Bandwidth:	<u>80 MHz</u>
Modulation:	<u>PI/2 BPSK</u>
Distance:	<u>1 meters</u>
SCS:	<u>30 kHz</u>

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
632668 (3490.02)	6 980.04	-59.19	11.16	-53.53	4.48	H	-46.85	-13.00	1	108
	10 470.06	-62.99	11.72	-52.79	5.59	V	-46.66	-13.00		
	13 960.08	-59.35	12.79	-49.71	6.50	V	-43.42	-13.00		
633334 (3500.01)	7 000.02	-58.06	11.13	-51.41	4.45	H	-44.73	-13.00	1	1
	10 500.03	-63.89	11.71	-52.64	5.64	H	-46.57	-13.00		
	14 000.04	-56.35	12.76	-46.77	6.55	V	-40.56	-13.00		
634000 (3510.00)	7 020.00	-59.33	11.07	-52.42	4.41	H	-45.76	-13.00	1	1
	10 530.00	-62.91	11.69	-52.15	5.64	H	-46.10	-13.00		
	14 040.00	-59.77	12.73	-50.45	6.50	H	-44.22	-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 n77(78)	10 MHz	3500.01	BPSK	Full RB	0	4.24	13.00
			QPSK			5.45	
			16-QAM			6.17	
			64-QAM			6.44	
			256-QAM			6.52	
	15 MHz		BPSK			5.00	
			QPSK			5.45	
			16-QAM			6.17	
			64-QAM			6.16	
			256-QAM			6.47	
	20 MHz		BPSK			4.36	
			QPSK			5.53	
			16-QAM			6.23	
			64-QAM			6.46	
			256-QAM			6.52	
	25 MHz		BPSK			4.51	
			QPSK			5.52	
			16-QAM			6.28	
			64-QAM			6.46	
			256-QAM			6.59	
	30 MHz		BPSK			4.41	
			QPSK			5.56	
			16-QAM			6.24	
			64-QAM			6.42	
			256-QAM			6.62	
	40 MHz		BPSK			5.82	
			QPSK			6.06	
			16-QAM			6.42	
			64-QAM			6.56	
			256-QAM			6.77	

	50 MHz	BPSK			4.43
		QPSK			5.53
		16-QAM			6.33
		64-QAM			6.43
		256-QAM			6.56
	60 MHz	BPSK			4.47
		QPSK			5.58
		16-QAM			6.23
		64-QAM			6.42
		256-QAM			6.62
	70 MHz	BPSK			4.48
		QPSK			5.63
		16-QAM			6.36
		64-QAM			6.47
		256-QAM			6.67
	80 MHz	BPSK			4.51
		QPSK			5.54
		16-QAM			6.30
		64-QAM			6.44
		256-QAM			6.64
	90 MHz	BPSK			5.52
		QPSK			5.78
		16-QAM			6.23
		64-QAM			6.42
		256-QAM			6.61
	100 MHz	BPSK			4.74
		QPSK			5.57
		16-QAM			6.27
		64-QAM			6.43
		256-QAM			6.67

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 91 ~ 150.

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n77(78)	10 MHz	3500.01	BPSK	Full RB	0	8.6904
			QPSK			8.7043
			16-QAM			8.6740
			64-QAM			8.7244
			256-QAM			8.6660
	15 MHz		BPSK			12.950
			QPSK			12.984
			16-QAM			12.995
			64-QAM			12.995
			256-QAM			12.908
	20 MHz		BPSK			17.987
			QPSK			17.978
			16-QAM			17.968
			64-QAM			17.969
			256-QAM			17.951
	25 MHz		BPSK			23.031
			QPSK			23.026
			16-QAM			22.960
			64-QAM			23.095
			256-QAM			22.987
	30 MHz		BPSK			26.973
			QPSK			26.988
			16-QAM			26.978
			64-QAM			27.009
			256-QAM			26.985
	40 MHz		BPSK			36.010
			QPSK			35.995
			16-QAM			35.958
			64-QAM			35.941
			256-QAM			35.907

	50 MHz		BPSK			46.036
			QPSK			45.981
			16-QAM			45.976
			64-QAM			45.860
			256-QAM			46.014
	60 MHz		BPSK			58.214
			QPSK			58.224
			16-QAM			58.119
			64-QAM			58.239
			256-QAM			58.215
	70 MHz		BPSK			64.866
			QPSK			64.974
			16-QAM			64.556
			64-QAM			64.938
			256-QAM			64.857
	80 MHz		BPSK			77.726
			QPSK			77.559
			16-QAM			77.654
			64-QAM			77.722
			256-QAM			77.599
	90 MHz		BPSK			87.358
			QPSK			87.087
			16-QAM			87.213
			64-QAM			87.209
			256-QAM			87.247
100 MHz	BPSK	96.861				
	QPSK	96.898				
	16-QAM	96.984				
	64-QAM	96.713				
	256-QAM	96.702				

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 151 ~ 210.

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 n77(78)	10	3455.010	5.9921	30.315	-63.510	-33.195	-13.00
		3500.010	5.9522	30.315	-63.944	-33.629	
		3544.980	4.9751	29.722	-63.622	-33.900	
	15	3457.500	4.9851	29.722	-63.627	-33.905	
		3500.010	4.5664	29.722	-64.072	-34.350	
		3542.490	7.0688	30.315	-62.823	-32.508	
	20	3460.020	4.8156	29.722	-63.198	-33.476	
		3500.010	6.3809	30.315	-63.328	-33.013	
		3540.000	9.5015	30.315	-63.665	-33.350	
	25	3462.510	3.1905	29.722	-62.675	-32.953	
		3500.010	4.7558	29.722	-62.970	-33.248	
		3537.480	8.4247	30.315	-63.093	-32.778	
	30	3465.000	6.8993	30.315	-63.715	-33.400	
		3500.010	4.7857	29.722	-63.657	-33.935	
		3534.990	5.0150	30.315	-63.349	-33.034	
	40	3470.010	5.0150	30.315	-62.808	-32.493	
		3500.010	5.2543	30.315	-63.956	-33.641	
		3529.980	6.1516	30.315	-63.823	-33.508	
	50	3475.020	4.3370	29.722	-64.350	-34.628	
		3500.010	4.3470	29.722	-63.201	-33.479	
		3525.000	6.9990	30.315	-62.131	-31.816	
	60	3480.000	3.1406	29.722	-64.139	-34.417	
		3500.010	9.1426	30.315	-63.718	-33.403	
		3519.990	6.1815	30.315	-63.282	-32.967	
	70	3485.010	4.7658	29.722	-63.360	-33.638	
		3500.010	9.0529	30.315	-62.426	-32.111	
		3514.980	2.5325	29.722	-62.115	-32.393	
	80	3490.020	5.4337	30.315	-64.103	-33.788	
		3500.010	4.9951	29.722	-63.033	-33.311	
		3510.000	6.9392	30.315	-62.579	-32.264	
	90	3495.000	5.7628	30.315	-63.682	-33.367	
		3500.010	4.7757	29.722	-63.559	-33.837	
		3504.990	4.7658	29.722	-62.122	-32.400	
	100	3500.010	8.3948	30.315	-63.215	-32.900	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 211 ~ 278.

2. - Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter

- Result(dBm) = Reading + Factor

3. Factor(dB)

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

1. Plots of the EUT's Band Edge are shown Page 279 ~ 422.

2. Duty Cycle factor already applied on the factor.

- Factor(dB) = Duty Cycle factor + Cable Loss + Ext. Attenuator + Power Splitter

- Result(dBm) = Reading + Factor

- Duty Cycle Factor(dB) = 6.990

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ▣ BandWidth: 10 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3455.010	100 %	+20(Ref)	3455 009 995	0.0	0.000 000	0.000
	100 %	-30	3455 009 991	-4.2	0.000 000	-0.001
	100 %	-20	3455 009 993	-2.8	0.000 000	-0.001
	100 %	-10	3455 009 991	-4.0	0.000 000	-0.001
	100 %	0	3455 009 993	-2.1	0.000 000	-0.001
	100 %	+10	3455 009 991	-4.8	0.000 000	-0.001
	100 %	+30	3455 009 991	-4.1	0.000 000	-0.001
	100 %	+40	3455 009 992	-3.3	0.000 000	-0.001
	100 %	+50	3455 009 990	-5.9	0.000 000	-0.002
	Batt. Endpoint	+20	3455 009 993	-1.9	0.000 000	-0.001
3544.980	100 %	+20(Ref)	3544 979 997	0.0	0.000 000	0.000
	100 %	-30	3544 979 994	-2.6	0.000 000	-0.001
	100 %	-20	3544 979 994	-3.1	0.000 000	-0.001
	100 %	-10	3544 979 993	-4.1	0.000 000	-0.001
	100 %	0	3544 979 993	-3.8	0.000 000	-0.001
	100 %	+10	3544 979 996	-1.2	0.000 000	0.000
	100 %	+30	3544 979 993	-4.0	0.000 000	-0.001
	100 %	+40	3544 979 992	-5.0	0.000 000	-0.001
	100 %	+50	3544 979 994	-2.8	0.000 000	-0.001
	Batt. Endpoint	+20	3544 979 993	-4.0	0.000 000	-0.001

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3457.500	100 %	+20(Ref)	3457 499 997	0.0	0.000 000	0.000
	100 %	-30	3457 499 994	-2.7	0.000 000	-0.001
	100 %	-20	3457 499 995	-1.9	0.000 000	-0.001
	100 %	-10	3457 499 996	-0.6	0.000 000	0.000
	100 %	0	3457 499 994	-2.5	0.000 000	-0.001
	100 %	+10	3457 499 996	-1.3	0.000 000	0.000
	100 %	+30	3457 499 993	-4.4	0.000 000	-0.001
	100 %	+40	3457 499 992	-4.9	0.000 000	-0.001
	100 %	+50	3457 499 995	-1.4	0.000 000	0.000
	Batt. Endpoint	+20	3457 499 993	-3.7	0.000 000	-0.001
3542.490	100 %	+20(Ref)	3542 489 995	0.0	0.000 000	0.000
	100 %	-30	3542 489 991	-3.7	0.000 000	-0.001
	100 %	-20	3542 489 993	-2.2	0.000 000	-0.001
	100 %	-10	3542 489 992	-2.8	0.000 000	-0.001
	100 %	0	3542 489 992	-3.1	0.000 000	-0.001
	100 %	+10	3542 489 991	-3.7	0.000 000	-0.001
	100 %	+30	3542 489 988	-6.7	0.000 000	-0.002
	100 %	+40	3542 489 990	-5.1	0.000 000	-0.001
	100 %	+50	3542 489 992	-2.8	0.000 000	-0.001
	Batt. Endpoint	+20	3542 489 989	-5.4	0.000 000	-0.002

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3460.020	100 %	+20(Ref)	3460 019 997	0.0	0.000 000	0.000
	100 %	-30	3460 019 994	-2.7	0.000 000	-0.001
	100 %	-20	3460 019 995	-2.2	0.000 000	-0.001
	100 %	-10	3460 019 994	-2.8	0.000 000	-0.001
	100 %	0	3460 019 994	-3.0	0.000 000	-0.001
	100 %	+10	3460 019 993	-4.3	0.000 000	-0.001
	100 %	+30	3460 019 993	-3.7	0.000 000	-0.001
	100 %	+40	3460 019 992	-4.7	0.000 000	-0.001
	100 %	+50	3460 019 992	-5.2	0.000 000	-0.001
	Batt. Endpoint	+20	3460 019 992	-5.1	0.000 000	-0.001
3540.000	100 %	+20(Ref)	3539 999 996	0.0	0.000 000	0.000
	100 %	-30	3539 999 991	-4.4	0.000 000	-0.001
	100 %	-20	3539 999 993	-2.6	0.000 000	-0.001
	100 %	-10	3539 999 994	-1.9	0.000 000	-0.001
	100 %	0	3539 999 991	-4.6	0.000 000	-0.001
	100 %	+10	3539 999 990	-5.5	0.000 000	-0.002
	100 %	+30	3539 999 990	-5.3	0.000 000	-0.002
	100 %	+40	3539 999 991	-4.5	0.000 000	-0.001
	100 %	+50	3539 999 992	-3.1	0.000 000	-0.001
	Batt. Endpoint	+20	3539 999 993	-2.9	0.000 000	-0.001

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3462.510	100 %	+20(Ref)	3462 509 996	0.0	0.000 000	0.000
	100 %	-30	3462 509 993	-3.6	0.000 000	-0.001
	100 %	-20	3462 509 992	-4.5	0.000 000	-0.001
	100 %	-10	3462 509 994	-2.5	0.000 000	-0.001
	100 %	0	3462 509 992	-3.9	0.000 000	-0.001
	100 %	+10	3462 509 992	-4.0	0.000 000	-0.001
	100 %	+30	3462 509 995	-1.5	0.000 000	0.000
	100 %	+40	3462 509 994	-2.6	0.000 000	-0.001
	100 %	+50	3462 509 992	-3.8	0.000 000	-0.001
	Batt. Endpoint	+20	3462 509 993	-2.9	0.000 000	-0.001
3537.480	100 %	+20(Ref)	3537 479 999	0.0	0.000 000	0.000
	100 %	-30	3537 479 997	-2.3	0.000 000	-0.001
	100 %	-20	3537 479 995	-4.4	0.000 000	-0.001
	100 %	-10	3537 479 996	-3.3	0.000 000	-0.001
	100 %	0	3537 479 998	-1.6	0.000 000	0.000
	100 %	+10	3537 479 996	-3.4	0.000 000	-0.001
	100 %	+30	3537 479 996	-3.0	0.000 000	-0.001
	100 %	+40	3537 479 997	-2.6	0.000 000	-0.001
	100 %	+50	3537 479 995	-4.1	0.000 000	-0.001
	Batt. Endpoint	+20	3537 479 999	-0.6	0.000 000	0.000

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3465.000	100 %	+20(Ref)	3464 999 998	0.0	0.000 000	0.000
	100 %	-30	3464 999 994	-3.6	0.000 000	-0.001
	100 %	-20	3464 999 995	-2.3	0.000 000	-0.001
	100 %	-10	3464 999 995	-3.0	0.000 000	-0.001
	100 %	0	3464 999 994	-3.4	0.000 000	-0.001
	100 %	+10	3464 999 994	-3.1	0.000 000	-0.001
	100 %	+30	3464 999 992	-5.2	0.000 000	-0.001
	100 %	+40	3464 999 994	-3.9	0.000 000	-0.001
	100 %	+50	3464 999 994	-3.1	0.000 000	-0.001
	Batt. Endpoint	+20	3464 999 995	-2.4	0.000 000	-0.001
3534.990	100 %	+20(Ref)	3534 989 996	0.0	0.000 000	0.000
	100 %	-30	3534 989 995	-1.2	0.000 000	0.000
	100 %	-20	3534 989 991	-4.3	0.000 000	-0.001
	100 %	-10	3534 989 992	-3.6	0.000 000	-0.001
	100 %	0	3534 989 993	-2.6	0.000 000	-0.001
	100 %	+10	3534 989 994	-1.6	0.000 000	0.000
	100 %	+30	3534 989 991	-4.7	0.000 000	-0.001
	100 %	+40	3534 989 991	-5.0	0.000 000	-0.001
	100 %	+50	3534 989 992	-3.9	0.000 000	-0.001
	Batt. Endpoint	+20	3534 989 991	-4.3	0.000 000	-0.001

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3470.010	100 %	+20(Ref)	3470 009 996	0.0	0.000 000	0.000
	100 %	-30	3470 009 993	-3.1	0.000 000	-0.001
	100 %	-20	3470 009 993	-3.3	0.000 000	-0.001
	100 %	-10	3470 009 994	-2.8	0.000 000	-0.001
	100 %	0	3470 009 993	-3.1	0.000 000	-0.001
	100 %	+10	3470 009 993	-3.8	0.000 000	-0.001
	100 %	+30	3470 009 996	-0.4	0.000 000	0.000
	100 %	+40	3470 009 994	-2.9	0.000 000	-0.001
	100 %	+50	3470 009 994	-2.7	0.000 000	-0.001
	Batt. Endpoint	+20	3470 009 992	-4.6	0.000 000	-0.001
3529.980	100 %	+20(Ref)	3529 979 995	0.0	0.000 000	0.000
	100 %	-30	3529 979 992	-2.9	0.000 000	-0.001
	100 %	-20	3529 979 990	-5.2	0.000 000	-0.001
	100 %	-10	3529 979 992	-3.5	0.000 000	-0.001
	100 %	0	3529 979 989	-5.7	0.000 000	-0.002
	100 %	+10	3529 979 993	-2.2	0.000 000	-0.001
	100 %	+30	3529 979 991	-4.2	0.000 000	-0.001
	100 %	+40	3529 979 990	-5.3	0.000 000	-0.001
	100 %	+50	3529 979 991	-4.3	0.000 000	-0.001
	Batt. Endpoint	+20	3529 979 991	-4.1	0.000 000	-0.001

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3475.020	100 %	+20(Ref)	3475 019 995	0.0	0.000 000	0.000
	100 %	-30	3475 019 992	-3.7	0.000 000	-0.001
	100 %	-20	3475 019 992	-3.3	0.000 000	-0.001
	100 %	-10	3475 019 990	-5.6	0.000 000	-0.002
	100 %	0	3475 019 989	-6.0	0.000 000	-0.002
	100 %	+10	3475 019 994	-1.7	0.000 000	0.000
	100 %	+30	3475 019 990	-5.1	0.000 000	-0.001
	100 %	+40	3475 019 991	-4.6	0.000 000	-0.001
	100 %	+50	3475 019 992	-3.3	0.000 000	-0.001
	Batt. Endpoint	+20	3475 019 989	-6.6	0.000 000	-0.002
3525.000	100 %	+20(Ref)	3524 999 997	0.0	0.000 000	0.000
	100 %	-30	3524 999 993	-4.2	0.000 000	-0.001
	100 %	-20	3524 999 996	-1.4	0.000 000	0.000
	100 %	-10	3524 999 993	-4.8	0.000 000	-0.001
	100 %	0	3524 999 995	-2.6	0.000 000	-0.001
	100 %	+10	3524 999 993	-4.2	0.000 000	-0.001
	100 %	+30	3524 999 993	-4.8	0.000 000	-0.001
	100 %	+40	3524 999 993	-4.1	0.000 000	-0.001
	100 %	+50	3524 999 996	-1.4	0.000 000	0.000
	Batt. Endpoint	+20	3524 999 995	-2.8	0.000 000	-0.001

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3480.000	100 %	+20(Ref)	3479 999 995	0.0	0.000 000	0.000
	100 %	-30	3479 999 991	-3.9	0.000 000	-0.001
	100 %	-20	3479 999 990	-4.5	0.000 000	-0.001
	100 %	-10	3479 999 990	-4.9	0.000 000	-0.001
	100 %	0	3479 999 988	-7.0	0.000 000	-0.002
	100 %	+10	3479 999 992	-3.0	0.000 000	-0.001
	100 %	+30	3479 999 992	-2.2	0.000 000	-0.001
	100 %	+40	3479 999 988	-6.6	0.000 000	-0.002
	100 %	+50	3479 999 990	-4.6	0.000 000	-0.001
	Batt. Endpoint	+20	3479 999 988	-7.2	0.000 000	-0.002
3519.990	100 %	+20(Ref)	3519 989 996	0.0	0.000 000	0.000
	100 %	-30	3519 989 993	-3.0	0.000 000	-0.001
	100 %	-20	3519 989 989	-6.5	0.000 000	-0.002
	100 %	-10	3519 989 990	-6.0	0.000 000	-0.002
	100 %	0	3519 989 992	-3.8	0.000 000	-0.001
	100 %	+10	3519 989 990	-5.8	0.000 000	-0.002
	100 %	+30	3519 989 993	-3.4	0.000 000	-0.001
	100 %	+40	3519 989 989	-6.7	0.000 000	-0.002
	100 %	+50	3519 989 990	-5.6	0.000 000	-0.002
	Batt. Endpoint	+20	3519 989 991	-5.3	0.000 000	-0.002

- ▣ BandWidth: 70 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3485.010	100 %	+20(Ref)	3485 009 997	0.0	0.000 000	0.000
	100 %	-30	3485 009 992	-4.4	0.000 000	-0.001
	100 %	-20	3485 009 993	-3.8	0.000 000	-0.001
	100 %	-10	3485 009 994	-3.1	0.000 000	-0.001
	100 %	0	3485 009 992	-4.9	0.000 000	-0.001
	100 %	+10	3485 009 992	-4.9	0.000 000	-0.001
	100 %	+30	3485 009 992	-4.7	0.000 000	-0.001
	100 %	+40	3485 009 994	-2.3	0.000 000	-0.001
	100 %	+50	3485 009 993	-3.8	0.000 000	-0.001
	Batt. Endpoint	+20	3485 009 994	-2.7	0.000 000	-0.001
3514.980	100 %	+20(Ref)	3514 979 997	0.0	0.000 000	0.000
	100 %	-30	3514 979 994	-3.4	0.000 000	-0.001
	100 %	-20	3514 979 993	-4.4	0.000 000	-0.001
	100 %	-10	3514 979 993	-4.5	0.000 000	-0.001
	100 %	0	3514 979 994	-3.4	0.000 000	-0.001
	100 %	+10	3514 979 990	-7.1	0.000 000	-0.002
	100 %	+30	3514 979 993	-4.6	0.000 000	-0.001
	100 %	+40	3514 979 995	-2.5	0.000 000	-0.001
	100 %	+50	3514 979 993	-4.1	0.000 000	-0.001
	Batt. Endpoint	+20	3514 979 993	-4.1	0.000 000	-0.001

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3490.020	100 %	+20(Ref)	3490 019 996	0.0	0.000 000	0.000
	100 %	-30	3490 019 991	-5.2	0.000 000	-0.001
	100 %	-20	3490 019 992	-3.5	0.000 000	-0.001
	100 %	-10	3490 019 992	-4.2	0.000 000	-0.001
	100 %	0	3490 019 992	-3.6	0.000 000	-0.001
	100 %	+10	3490 019 991	-5.2	0.000 000	-0.001
	100 %	+30	3490 019 991	-5.2	0.000 000	-0.001
	100 %	+40	3490 019 990	-6.3	0.000 000	-0.002
	100 %	+50	3490 019 991	-5.1	0.000 000	-0.001
	Batt. Endpoint	+20	3490 019 990	-5.6	0.000 000	-0.002
3510.000	100 %	+20(Ref)	3509 999 995	0.0	0.000 000	0.000
	100 %	-30	3509 999 991	-4.3	0.000 000	-0.001
	100 %	-20	3509 999 993	-2.8	0.000 000	-0.001
	100 %	-10	3509 999 991	-4.6	0.000 000	-0.001
	100 %	0	3509 999 992	-2.9	0.000 000	-0.001
	100 %	+10	3509 999 989	-6.7	0.000 000	-0.002
	100 %	+30	3509 999 990	-5.0	0.000 000	-0.001
	100 %	+40	3509 999 990	-5.7	0.000 000	-0.002
	100 %	+50	3509 999 990	-5.7	0.000 000	-0.002
	Batt. Endpoint	+20	3509 999 990	-5.7	0.000 000	-0.002

- ▣ BandWidth: 90 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3495.000	100 %	+20(Ref)	3494 999 995	0.0	0.000 000	0.000
	100 %	-30	3494 999 989	-5.4	0.000 000	-0.002
	100 %	-20	3494 999 989	-5.4	0.000 000	-0.002
	100 %	-10	3494 999 989	-5.4	0.000 000	-0.002
	100 %	0	3494 999 990	-4.3	0.000 000	-0.001
	100 %	+10	3494 999 990	-5.1	0.000 000	-0.001
	100 %	+30	3494 999 987	-7.9	0.000 000	-0.002
	100 %	+40	3494 999 989	-5.8	0.000 000	-0.002
	100 %	+50	3494 999 990	-4.7	0.000 000	-0.001
	Batt. Endpoint	+20	3494 999 988	-6.9	0.000 000	-0.002
3504.990	100 %	+20(Ref)	3504 989 995	0.0	0.000 000	0.000
	100 %	-30	3504 989 991	-4.2	0.000 000	-0.001
	100 %	-20	3504 989 992	-3.4	0.000 000	-0.001
	100 %	-10	3504 989 992	-3.0	0.000 000	-0.001
	100 %	0	3504 989 989	-5.8	0.000 000	-0.002
	100 %	+10	3504 989 991	-4.4	0.000 000	-0.001
	100 %	+30	3504 989 990	-4.9	0.000 000	-0.001
	100 %	+40	3504 989 993	-2.4	0.000 000	-0.001
	100 %	+50	3504 989 990	-5.4	0.000 000	-0.002
	Batt. Endpoint	+20	3504 989 993	-1.9	0.000 000	-0.001

- ▣ BandWidth: 100 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3500.010	100 %	+20(Ref)	3500 009 995	0.0	0.000 000	0.000
	100 %	-30	3500 009 987	-7.7	0.000 000	-0.002
	100 %	-20	3500 009 989	-5.8	0.000 000	-0.002
	100 %	-10	3500 009 992	-3.0	0.000 000	-0.001
	100 %	0	3500 009 989	-5.3	0.000 000	-0.002
	100 %	+10	3500 009 988	-6.5	0.000 000	-0.002
	100 %	+30	3500 009 988	-6.5	0.000 000	-0.002
	100 %	+40	3500 009 989	-5.4	0.000 000	-0.002
	100 %	+50	3500 009 989	-5.3	0.000 000	-0.002
	Batt. Endpoint	+20	3500 009 990	-4.8	0.000 000	-0.001

9. TEST DATA (3700 MHz - 3980 MHz)

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
3705.00	Sub6 n77(78)/ 10 MHz [30 kHz]	PI/2 BPSK	-21.25	17.34	12.08	3.08	H	< 1.00	0.431	26.34	1	12
		QPSK	-21.35	17.24	12.08	3.08	H		0.421	26.24		
		16-QAM	-22.21	16.38	12.08	3.08	H		0.345	25.38		
		64-QAM	-23.90	14.69	12.08	3.08	H		0.234	23.69		
		256-QAM	-25.90	12.69	12.08	3.08	H		0.148	21.69		
3840.00		PI/2 BPSK	-21.44	18.51	11.58	3.20	H		0.489	26.89	1	1
		QPSK	-21.46	18.49	11.58	3.20	H		0.486	26.87		
		16-QAM	-22.25	17.70	11.58	3.20	H		0.406	26.08		
		64-QAM	-23.96	15.99	11.58	3.20	H		0.274	24.37		
		256-QAM	-25.93	14.02	11.58	3.20	H		0.174	22.40		
3975.00		PI/2 BPSK	-24.58	15.33	11.70	3.25	H		0.239	23.78	1	12
		QPSK	-24.67	15.24	11.70	3.25	H		0.234	23.69		
		16-QAM	-25.61	14.30	11.70	3.25	H		0.188	22.75		
		64-QAM	-27.10	12.81	11.70	3.25	H		0.134	21.26		
		256-QAM	-29.19	10.72	11.70	3.25	H		0.083	19.17		

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
3707.51	Sub6 n77(78)/ 15 MHz [30 kHz]	PI/2 BPSK	-21.41	17.09	12.08	3.08	H	< 1.00	0.406	26.09	1	19
		QPSK	-21.52	16.98	12.08	3.08	H		0.396	25.98		
		16-QAM	-22.44	16.06	12.08	3.08	H		0.321	25.06		
		64-QAM	-23.92	14.58	12.08	3.08	H		0.228	23.58		
		256-QAM	-25.94	12.56	12.08	3.08	H		0.143	21.56		
3840.00		PI/2 BPSK	-21.41	18.54	11.58	3.20	H		0.492	26.92	1	36
		QPSK	-21.45	18.50	11.58	3.20	H		0.488	26.88		
		16-QAM	-22.35	17.60	11.58	3.20	H		0.396	25.98		
		64-QAM	-24.04	15.91	11.58	3.20	H		0.269	24.29		
		256-QAM	-26.00	13.95	11.58	3.20	H		0.171	22.33		
3972.48		PI/2 BPSK	-24.51	15.35	11.69	3.25	H	0.239	23.79	1	1	
		QPSK	-24.55	15.31	11.69	3.25	H	0.237	23.75			
		16-QAM	-25.43	14.43	11.69	3.25	H	0.194	22.87			
		64-QAM	-27.10	12.76	11.69	3.25	H	0.132	21.20			
		256-QAM	-29.03	10.83	11.69	3.25	H	0.085	19.27			

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
3710.01		PI/2 BPSK	-21.35	17.15	12.08	3.08	H	< 1.00	0.412	26.15	1	49
		QPSK	-21.40	17.10	12.08	3.08	H		0.407	26.10		
		16-QAM	-22.64	15.86	12.08	3.08	H		0.306	24.86		
		64-QAM	-23.96	14.54	12.08	3.08	H		0.226	23.54		
		256-QAM	-25.85	12.65	12.08	3.08	H		0.146	21.65		
3840.00	Sub6 n77(78)/ 20 MHz [30 kHz]	PI/2 BPSK	-21.48	18.47	11.58	3.20	H	< 1.00	0.484	26.85	1	1
		QPSK	-21.50	18.45	11.58	3.20	H		0.482	26.83		
		16-QAM	-22.46	17.49	11.58	3.20	H		0.386	25.87		
		64-QAM	-24.09	15.86	11.58	3.20	H		0.266	24.24		
		256-QAM	-26.05	13.90	11.58	3.20	H		0.169	22.28		
3969.99		PI/2 BPSK	-24.37	15.49	11.69	3.25	H	< 1.00	0.247	23.93	1	1
		QPSK	-24.40	15.46	11.69	3.25	H		0.245	23.90		
		16-QAM	-25.30	14.56	11.69	3.25	H		0.200	23.00		
		64-QAM	-26.84	13.02	11.69	3.25	H		0.140	21.46		
		256-QAM	-28.87	10.99	11.69	3.25	H		0.088	19.43		

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
3712.50	Sub6 n77(78)/ 25 MHz [30 kHz]	PI/2 BPSK	-21.45	17.12	12.08	3.11	H	< 1.00	0.406	26.09	1	32
		QPSK	-21.47	17.10	12.08	3.11	H		0.405	26.07		
		16-QAM	-22.30	16.27	12.08	3.11	H		0.334	25.24		
		64-QAM	-23.89	14.68	12.08	3.11	H		0.232	23.65		
		256-QAM	-25.78	12.79	12.08	3.11	H		0.150	21.76		
3840.00		PI/2 BPSK	-21.50	18.45	11.58	3.20	H		0.482	26.83	1	1
		QPSK	-21.53	18.42	11.58	3.20	H		0.479	26.80		
		16-QAM	-22.49	17.46	11.58	3.20	H		0.384	25.84		
		64-QAM	-24.11	15.84	11.58	3.20	H		0.264	24.22		
		256-QAM	-26.13	13.82	11.58	3.20	H		0.166	22.20		
3967.50		PI/2 BPSK	-24.17	15.69	11.69	3.25	H		0.259	24.13	1	1
		QPSK	-24.24	15.62	11.69	3.25	H		0.255	24.06		
		16-QAM	-25.19	14.67	11.69	3.25	H		0.205	23.11		
		64-QAM	-26.81	13.05	11.69	3.25	H		0.141	21.49		
		256-QAM	-28.70	11.16	11.69	3.25	H		0.091	19.60		

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
3715.02		PI/2 BPSK	-21.28	17.29	12.08	3.11	H	< 1.00	0.423	26.26	1	39
		QPSK	-21.41	17.16	12.08	3.11	H		0.410	26.13		
		16-QAM	-22.35	16.22	12.08	3.11	H		0.330	25.19		
		64-QAM	-23.98	14.59	12.08	3.11	H		0.227	23.56		
		256-QAM	-25.87	12.70	12.08	3.11	H		0.147	21.67		
3840.00	Sub6 n77(78)/ 30 MHz [30 kHz]	PI/2 BPSK	-21.46	18.49	11.58	3.20	H	< 1.00	0.486	26.87	1	39
		QPSK	-21.51	18.44	11.58	3.20	H		0.481	26.82		
		16-QAM	-22.39	17.56	11.58	3.20	H		0.393	25.94		
		64-QAM	-24.00	15.95	11.58	3.20	H		0.271	24.33		
		256-QAM	-25.92	14.03	11.58	3.20	H		0.174	22.41		
3964.98		PI/2 BPSK	-24.04	15.89	11.67	3.24	H	< 1.00	0.270	24.32	1	1
		QPSK	-24.05	15.88	11.67	3.24	H		0.270	24.31		
		16-QAM	-25.05	14.88	11.67	3.24	H		0.214	23.31		
		64-QAM	-26.41	13.52	11.67	3.24	H		0.157	21.95		
		256-QAM	-28.57	11.36	11.67	3.24	H		0.095	19.79		

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
3720.00		PI/2 BPSK	-21.33	17.30	12.07	3.13	H	< 1.00	0.421	26.24	1	53
		QPSK	-21.41	17.22	12.07	3.13	H		0.413	26.16		
		16-QAM	-22.37	16.26	12.07	3.13	H		0.331	25.20		
		64-QAM	-23.79	14.84	12.07	3.13	H		0.239	23.78		
		256-QAM	-25.90	12.73	12.07	3.13	H		0.147	21.67		
3840.00	Sub6 n77(78)/ 40 MHz [30 kHz]	PI/2 BPSK	-21.46	18.49	11.58	3.20	H	< 1.00	0.486	26.87	1	53
		QPSK	-21.53	18.42	11.58	3.20	H		0.479	26.80		
		16-QAM	-22.51	17.44	11.58	3.20	H		0.382	25.82		
		64-QAM	-23.92	16.03	11.58	3.20	H		0.276	24.41		
		256-QAM	-25.89	14.06	11.58	3.20	H		0.175	22.44		
3960.00		PI/2 BPSK	-23.79	16.21	11.65	3.24	H	< 1.00	0.290	24.62	1	1
		QPSK	-23.85	16.15	11.65	3.24	H		0.286	24.56		
		16-QAM	-24.82	15.18	11.65	3.24	H		0.229	23.59		
		64-QAM	-26.29	13.71	11.65	3.24	H		0.163	22.12		
		256-QAM	-28.32	11.68	11.65	3.24	H		0.102	20.09		

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
3725.10		PI/2 BPSK	-21.32	17.44	12.06	3.15	H	< 1.00	0.432	26.35	1	66
		QPSK	-21.33	17.43	12.06	3.15	H		0.431	26.34		
		16-QAM	-22.27	16.49	12.06	3.15	H		0.347	25.40		
		64-QAM	-23.97	14.79	12.06	3.15	H		0.234	23.70		
		256-QAM	-25.95	12.81	12.06	3.15	H		0.149	21.72		
3840.00	Sub6 n77(78)/ 50 MHz [30 kHz]	PI/2 BPSK	-21.42	18.53	11.58	3.20	H	< 1.00	0.491	26.91	1	66
		QPSK	-21.50	18.45	11.58	3.20	H		0.482	26.83		
		16-QAM	-22.48	17.47	11.58	3.20	H		0.385	25.85		
		64-QAM	-23.97	15.98	11.58	3.20	H		0.273	24.36		
		256-QAM	-26.00	13.95	11.58	3.20	H		0.171	22.33		
3954.99		PI/2 BPSK	-23.71	16.32	11.63	3.23	H	< 1.00	0.296	24.72	1	1
		QPSK	-23.76	16.27	11.63	3.23	H		0.293	24.67		
		16-QAM	-24.74	15.29	11.63	3.23	H		0.234	23.69		
		64-QAM	-26.09	13.94	11.63	3.23	H		0.171	22.34		
		256-QAM	-28.34	11.69	11.63	3.23	H		0.102	20.09		

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
3730.02		PI/2 BPSK	-21.52	17.38	12.04	3.17	H	< 1.00	0.422	26.25	1	82
		QPSK	-21.60	17.30	12.04	3.17	H		0.414	26.17		
		16-QAM	-22.42	16.48	12.04	3.17	H		0.343	25.35		
		64-QAM	-24.10	14.80	12.04	3.17	H		0.233	23.67		
		256-QAM	-26.06	12.84	12.04	3.17	H		0.148	21.71		
3840.00	Sub6 n77(78)/ 60 MHz [30 kHz]	PI/2 BPSK	-21.48	18.47	11.58	3.20	H	< 1.00	0.484	26.85	1	82
		QPSK	-21.50	18.45	11.58	3.20	H		0.482	26.83		
		16-QAM	-22.32	17.63	11.58	3.20	H		0.399	26.01		
		64-QAM	-24.03	15.92	11.58	3.20	H		0.269	24.30		
		256-QAM	-25.88	14.07	11.58	3.20	H		0.176	22.45		
3949.98		PI/2 BPSK	-23.57	16.48	11.61	3.22	H	< 1.00	0.307	24.87	1	1
		QPSK	-23.64	16.41	11.61	3.22	H		0.302	24.80		
		16-QAM	-24.49	15.56	11.61	3.22	H		0.248	23.95		
		64-QAM	-26.19	13.86	11.61	3.22	H		0.168	22.25		
		256-QAM	-28.04	12.01	11.61	3.22	H		0.110	20.40		

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
3735.00		PI/2 BPSK	-21.56	17.46	12.02	3.18	H	< 1.00	0.427	26.30	1	1
		QPSK	-21.59	17.43	12.02	3.18	H		0.424	26.27		
		16-QAM	-22.61	16.41	12.02	3.18	H		0.335	25.25		
		64-QAM	-24.03	14.99	12.02	3.18	H		0.242	23.83		
		256-QAM	-26.03	12.99	12.02	3.18	H		0.152	21.83		
3840.00	Sub6 n77(78)/ 70 MHz [30 kHz]	PI/2 BPSK	-21.40	18.55	11.58	3.20	H	< 1.00	0.493	26.93	1	94
		QPSK	-21.53	18.42	11.58	3.20	H		0.479	26.80		
		16-QAM	-22.42	17.53	11.58	3.20	H		0.390	25.91		
		64-QAM	-24.21	15.74	11.58	3.20	H		0.258	24.12		
		256-QAM	-25.96	13.99	11.58	3.20	H		0.173	22.37		
3945.00		PI/2 BPSK	-23.51	16.52	11.60	3.23	H	< 1.00	0.308	24.89	1	1
		QPSK	-23.57	16.46	11.60	3.23	H		0.304	24.83		
		16-QAM	-24.49	15.54	11.60	3.23	H		0.246	23.91		
		64-QAM	-26.17	13.86	11.60	3.23	H		0.167	22.23		
		256-QAM	-27.95	12.08	11.60	3.23	H		0.111	20.45		

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
3740.01		PI/2 BPSK	-21.52	17.63	12.00	3.19	H	< 1.00	0.441	26.44	1	1
		QPSK	-21.56	17.59	12.00	3.19	H		0.437	26.40		
		16-QAM	-22.43	16.72	12.00	3.19	H		0.357	25.53		
		64-QAM	-24.06	15.09	12.00	3.19	H		0.245	23.90		
		256-QAM	-26.03	13.12	12.00	3.19	H		0.156	21.93		
3840.00	Sub6 n77(78)/ 80 MHz [30 kHz]	PI/2 BPSK	-21.39	18.56	11.58	3.20	H	< 1.00	0.494	26.94	1	108
		QPSK	-21.49	18.46	11.58	3.20	H		0.483	26.84		
		16-QAM	-22.38	17.57	11.58	3.20	H		0.394	25.95		
		64-QAM	-24.12	15.83	11.58	3.20	H		0.264	24.21		
		256-QAM	-25.97	13.98	11.58	3.20	H		0.172	22.36		
3939.99		PI/2 BPSK	-23.63	16.37	11.58	3.23	H	< 1.00	0.296	24.72	1	108
		QPSK	-23.72	16.28	11.58	3.23	H		0.290	24.63		
		16-QAM	-24.59	15.41	11.58	3.23	H		0.238	23.76		
		64-QAM	-26.15	13.85	11.58	3.23	H		0.166	22.20		
		256-QAM	-28.23	11.77	11.58	3.23	H		0.103	20.12		

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
3745.02		PI/2 BPSK	-21.46	17.71	11.97	3.18	H	< 1.00	0.447	26.50	1	1
		QPSK	-21.47	17.70	11.97	3.18	H		0.446	26.49		
		16-QAM	-22.38	16.79	11.97	3.18	H		0.361	25.58		
		64-QAM	-24.04	15.13	11.97	3.18	H		0.247	23.92		
		256-QAM	-25.94	13.23	11.97	3.18	H		0.159	22.02		
3840.00	Sub6 n77(78)/ 90 MHz [30 kHz]	PI/2 BPSK	-21.37	18.58	11.58	3.20	H	< 1.00	0.497	26.96	1	122
		QPSK	-21.44	18.51	11.58	3.20	H		0.489	26.89		
		16-QAM	-22.24	17.71	11.58	3.20	H		0.406	26.09		
		64-QAM	-24.00	15.95	11.58	3.20	H		0.271	24.33		
		256-QAM	-25.98	13.97	11.58	3.20	H		0.172	22.35		
3934.98		PI/2 BPSK	-23.52	16.43	11.56	3.24	H	< 1.00	0.299	24.75	1	122
		QPSK	-23.63	16.32	11.56	3.24	H		0.291	24.64		
		16-QAM	-24.71	15.24	11.56	3.24	H		0.227	23.56		
		64-QAM	-26.03	13.92	11.56	3.24	H		0.167	22.24		
		256-QAM	-28.13	11.82	11.56	3.24	H		0.103	20.14		

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
3750.00	Sub6 n77(78)/ 100 MHz [30 kHz]	PI/2 BPSK	-21.37	17.82	11.95	3.17	H	< 1.00	0.457	26.60	1	1
		QPSK	-21.40	17.79	11.95	3.17	H		0.454	26.57		
		16-QAM	-22.32	16.87	11.95	3.17	H		0.367	25.65		
		64-QAM	-23.80	15.39	11.95	3.17	H		0.261	24.17		
		256-QAM	-25.90	13.29	11.95	3.17	H		0.161	22.07		
3840.00		PI/2 BPSK	-21.33	18.62	11.58	3.20	H		0.501	27.00	1	136
		QPSK	-21.43	18.52	11.58	3.20	H		0.490	26.90		
		16-QAM	-22.40	17.55	11.58	3.20	H		0.392	25.93		
		64-QAM	-23.84	16.11	11.58	3.20	H		0.281	24.49		
		256-QAM	-25.86	14.09	11.58	3.20	H		0.177	22.47		
3930.00		PI/2 BPSK	-23.22	16.68	11.54	3.26	H		0.313	24.96	1	1
		QPSK	-23.23	16.67	11.54	3.26	H		0.313	24.95		
		16-QAM	-24.14	15.76	11.54	3.26	H		0.254	24.04		
		64-QAM	-25.84	14.06	11.54	3.26	H		0.171	22.34		
		256-QAM	-27.79	12.11	11.54	3.26	H		0.109	20.39		

9.2 RADIATED SPURIOUS EMISSIONS

NR Band:	<u>N77(78)</u>
Bandwidth:	<u>100 MHz</u>
Modulation:	<u>PI/2 BPSK</u>
Distance:	<u>1 meters</u>
SCS:	<u>30 kHz</u>

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
650000 (3750.00)	7 500.00	-59.42	11.52	-52.12	4.60	V	-45.20	-13.00	1	1
	11 250.00	-58.55	12.05	-47.44	5.89	V	-41.28	-13.00		
	15 000.00	-55.77	14.31	-48.61	6.78	V	-41.08	-13.00		
656000 (3840.00)	7 680.00	-60.30	11.47	-52.99	4.70	V	-46.22	-13.00	1	136
	11 520.00	-65.84	12.34	-54.53	5.87	V	-48.06	-13.00		
	15 360.00	-60.73	15.37	-54.15	6.88	V	-45.66	-13.00		
662000 (3930.00)	7 860.00	-60.23	11.07	-52.40	4.75	V	-46.08	-13.00	1	1
	11 790.00	-63.11	12.68	-53.68	6.02	V	-47.02	-13.00		
	15 720.00	-63.05	16.08	-56.75	6.95	V	-47.62	-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 n77(78)	10 MHz	3840.00	BPSK	Full RB	0	4.48	13.00
			QPSK			5.79	
			16-QAM			6.49	
			64-QAM			6.68	
			256-QAM			6.55	
	15 MHz		BPSK			4.31	
			QPSK			5.70	
			16-QAM			6.47	
			64-QAM			6.63	
			256-QAM			6.69	
	20 MHz		BPSK			5.39	
			QPSK			5.73	
			16-QAM			6.38	
			64-QAM			6.76	
			256-QAM			6.58	
	25 MHz		BPSK			4.25	
			QPSK			5.63	
			16-QAM			6.46	
			64-QAM			6.49	
			256-QAM			6.54	
	30 MHz		BPSK			4.42	
			QPSK			5.71	
			16-QAM			6.42	
			64-QAM			6.67	
			256-QAM			6.64	
	40 MHz		BPSK			5.30	
			QPSK			5.73	
			16-QAM			6.43	
			64-QAM			6.63	
			256-QAM			6.56	

	50 MHz		BPSK			4.52	
			QPSK			5.80	
			16-QAM			6.56	
			64-QAM			6.64	
			256-QAM			6.61	
	60 MHz		BPSK			5.80	
			QPSK			6.03	
			16-QAM			6.52	
			64-QAM			6.76	
			256-QAM			6.66	
	70 MHz		BPSK			4.56	
			QPSK			5.80	
			16-QAM			6.47	
			64-QAM			6.62	
			256-QAM			6.63	
	80 MHz		BPSK			4.52	
			QPSK			5.77	
			16-QAM			6.53	
			64-QAM			6.70	
			256-QAM			6.60	
	90 MHz		BPSK			4.87	
			QPSK			5.78	
			16-QAM			6.50	
			64-QAM			6.62	
			256-QAM			6.67	
100 MHz	BPSK	5.24					
	QPSK	5.77					
	16-QAM	6.51					
	64-QAM	6.61					
	256-QAM	6.62					

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 424 ~ 483.

9.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n77(78)	10 MHz	3840.00	BPSK	Full RB	0	8.6408
			QPSK			8.6541
			16-QAM			8.6356
			64-QAM			8.6723
			256-QAM			8.6632
	15 MHz		BPSK			12.982
			QPSK			12.973
			16-QAM			12.969
			64-QAM			12.969
			256-QAM			13.050
	20 MHz		BPSK			18.001
			QPSK			18.021
			16-QAM			17.935
			64-QAM			17.963
			256-QAM			17.958
	25 MHz		BPSK			22.968
			QPSK			23.012
			16-QAM			22.915
			64-QAM			22.945
			256-QAM			22.939
	30 MHz		BPSK			26.972
			QPSK			26.964
			16-QAM			27.023
			64-QAM			27.026
			256-QAM			26.900
	40 MHz		BPSK			35.985
			QPSK			35.950
			16-QAM			35.860
			64-QAM			35.977
			256-QAM			35.849

	50 MHz		BPSK			45.908
			QPSK			45.886
			16-QAM			46.024
			64-QAM			45.937
			256-QAM			45.950
	60 MHz		BPSK			58.182
			QPSK			58.129
			16-QAM			58.175
			64-QAM			58.095
			256-QAM			58.085
	70 MHz		BPSK			64.831
			QPSK			64.696
			16-QAM			64.599
			64-QAM			64.544
			256-QAM			64.637
	80 MHz		BPSK			77.529
			QPSK			77.479
			16-QAM			77.333
			64-QAM			77.417
			256-QAM			77.446
	90 MHz		BPSK			87.133
			QPSK			87.087
			16-QAM			87.240
			64-QAM			87.124
			256-QAM			87.305
100 MHz	BPSK	96.682				
	QPSK	96.700				
	16-QAM	96.514				
	64-QAM	96.628				
	256-QAM	96.337				

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 484 ~ 543.

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 n77(78)	10	3705.000	5.0050	30.315	-63.014	-32.699	-13.00
		3840.000	4.7757	29.722	-63.780	-34.058	
		3975.000	7.9462	30.315	-62.744	-32.429	
	15	3707.520	6.1416	30.315	-61.544	-31.229	
		3840.000	8.1655	30.315	-63.395	-33.080	
		3972.480	7.9362	30.315	-61.268	-30.953	
	20	3710.010	7.4078	30.315	-62.756	-32.441	
		3840.000	3.0110	29.722	-64.353	-34.631	
		3969.990	7.9262	30.315	-62.394	-32.079	
	25	3712.500	7.3978	30.315	-60.899	-30.584	
		3840.000	4.7957	29.722	-63.011	-33.289	
		3967.500	7.9163	30.315	-63.145	-32.830	
	30	3715.020	7.4078	30.315	-62.754	-32.439	
		3840.000	4.8754	29.722	-63.006	-33.284	
		3964.980	7.9661	30.315	-63.770	-33.455	
	40	3720.000	7.3978	30.315	-62.603	-32.288	
		3840.000	4.7957	29.722	-63.443	-33.721	
		3960.000	7.8864	30.315	-63.272	-32.957	
	50	3725.010	7.2682	30.315	-64.225	-33.910	
		3840.000	7.6371	30.315	-62.698	-32.383	
		3954.990	7.8664	30.315	-60.870	-30.555	
	60	3730.020	7.3978	30.315	-63.012	-32.697	
		3840.000	6.1915	29.722	-63.346	-33.624	
		3949.980	8.5942	30.315	-63.449	-33.134	
	70	3735.000	7.3978	30.315	-59.704	-29.389	
		3840.000	4.7658	29.722	-62.878	-33.156	
		3945.000	4.7857	29.722	-62.308	-32.586	
	80	3740.010	7.3978	30.315	-63.252	-32.937	
		3840.000	7.0289	30.315	-63.335	-33.020	
		3939.990	7.8066	30.315	-61.506	-31.191	
	90	3745.020	4.9951	29.722	-63.225	-33.503	
		3840.000	4.9851	29.722	-62.778	-33.056	
		3934.980	7.7867	30.315	-62.239	-31.924	
	100	3750.000	7.4078	30.315	-62.357	-32.042	
		3840.000	4.6062	29.722	-63.559	-33.837	
		3930.000	7.7667	30.315	-61.431	-31.116	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 544 ~ 615.
2. Duty Cycle factor already applied on the factor.
 - Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter
 - Result(dBm) = Reading + Factor

3. Factor(dB)

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

1. Plots of the EUT's Band Edge are shown Page 616 ~ 759.
2. Duty Cycle factor already applied on the factor.
 - Factor(dB) = Duty Cycle factor + Cable Loss + Ext. Attenuator + Power Splitter
 - Result(dBm) = Reading + Factor
 - Duty Cycle Factor(dB) = 6.990

9.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ▣ BandWidth: 10 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3705.000	100 %	+20(Ref)	3704 999 993	0.0	0.000 000	0.000
	100 %	-30	3704 999 989	-3.8	0.000 000	-0.001
	100 %	-20	3704 999 986	-6.9	0.000 000	-0.002
	100 %	-10	3704 999 987	-6.6	0.000 000	-0.002
	100 %	0	3704 999 990	-3.7	0.000 000	-0.001
	100 %	+10	3704 999 987	-6.0	0.000 000	-0.002
	100 %	+30	3704 999 986	-7.3	0.000 000	-0.002
	100 %	+40	3704 999 989	-4.2	0.000 000	-0.001
	100 %	+50	3704 999 987	-5.9	0.000 000	-0.002
	Batt. Endpoint	+20	3704 999 986	-7.7	0.000 000	-0.002
3975.000	100 %	+20(Ref)	3974 999 998	0.0	0.000 000	0.000
	100 %	-30	3974 999 996	-2.3	0.000 000	-0.001
	100 %	-20	3974 999 993	-4.6	0.000 000	-0.001
	100 %	-10	3974 999 994	-3.7	0.000 000	-0.001
	100 %	0	3974 999 996	-2.1	0.000 000	-0.001
	100 %	+10	3974 999 995	-2.7	0.000 000	-0.001
	100 %	+30	3974 999 993	-4.6	0.000 000	-0.001
	100 %	+40	3974 999 995	-2.9	0.000 000	-0.001
	100 %	+50	3974 999 997	-0.8	0.000 000	0.000
	Batt. Endpoint	+20	3974 999 994	-4.3	0.000 000	-0.001

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3707.520	100 %	+20(Ref)	3707 519 995	0.0	0.000 000	0.000
	100 %	-30	3707 519 990	-4.5	0.000 000	-0.001
	100 %	-20	3707 519 989	-6.0	0.000 000	-0.002
	100 %	-10	3707 519 990	-5.3	0.000 000	-0.001
	100 %	0	3707 519 990	-4.6	0.000 000	-0.001
	100 %	+10	3707 519 989	-5.6	0.000 000	-0.002
	100 %	+30	3707 519 990	-5.4	0.000 000	-0.001
	100 %	+40	3707 519 990	-4.6	0.000 000	-0.001
	100 %	+50	3707 519 990	-4.9	0.000 000	-0.001
	Batt. Endpoint	+20	3707 519 989	-6.4	0.000 000	-0.002
3972.480	100 %	+20(Ref)	3972 479 996	0.0	0.000 000	0.000
	100 %	-30	3972 479 994	-1.9	0.000 000	0.000
	100 %	-20	3972 479 992	-3.6	0.000 000	-0.001
	100 %	-10	3972 479 993	-2.8	0.000 000	-0.001
	100 %	0	3972 479 994	-2.4	0.000 000	-0.001
	100 %	+10	3972 479 993	-2.9	0.000 000	-0.001
	100 %	+30	3972 479 994	-2.1	0.000 000	-0.001
	100 %	+40	3972 479 993	-2.9	0.000 000	-0.001
	100 %	+50	3972 479 993	-3.3	0.000 000	-0.001
	Batt. Endpoint	+20	3972 479 991	-4.6	0.000 000	-0.001

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3710.010	100 %	+20(Ref)	3710 009 997	0.0	0.000 000	0.000
	100 %	-30	3710 009 991	-5.6	0.000 000	-0.002
	100 %	-20	3710 009 991	-5.9	0.000 000	-0.002
	100 %	-10	3710 009 992	-5.0	0.000 000	-0.001
	100 %	0	3710 009 994	-2.5	0.000 000	-0.001
	100 %	+10	3710 009 991	-5.2	0.000 000	-0.001
	100 %	+30	3710 009 992	-4.9	0.000 000	-0.001
	100 %	+40	3710 009 992	-4.1	0.000 000	-0.001
	100 %	+50	3710 009 993	-3.8	0.000 000	-0.001
	Batt. Endpoint	+20	3710 009 991	-5.2	0.000 000	-0.001
3969.990	100 %	+20(Ref)	3969 989 996	0.0	0.000 000	0.000
	100 %	-30	3969 989 992	-3.9	0.000 000	-0.001
	100 %	-20	3969 989 992	-3.5	0.000 000	-0.001
	100 %	-10	3969 989 991	-5.0	0.000 000	-0.001
	100 %	0	3969 989 991	-4.6	0.000 000	-0.001
	100 %	+10	3969 989 994	-2.1	0.000 000	-0.001
	100 %	+30	3969 989 993	-3.1	0.000 000	-0.001
	100 %	+40	3969 989 993	-3.3	0.000 000	-0.001
	100 %	+50	3969 989 994	-2.1	0.000 000	-0.001
	Batt. Endpoint	+20	3969 989 994	-1.5	0.000 000	0.000

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3712.500	100 %	+20(Ref)	3712 499 993	0.0	0.000 000	0.000
	100 %	-30	3712 499 988	-4.6	0.000 000	-0.001
	100 %	-20	3712 499 987	-5.4	0.000 000	-0.001
	100 %	-10	3712 499 989	-4.4	0.000 000	-0.001
	100 %	0	3712 499 989	-3.6	0.000 000	-0.001
	100 %	+10	3712 499 988	-5.1	0.000 000	-0.001
	100 %	+30	3712 499 988	-5.0	0.000 000	-0.001
	100 %	+40	3712 499 987	-6.4	0.000 000	-0.002
	100 %	+50	3712 499 990	-3.0	0.000 000	-0.001
	Batt. Endpoint	+20	3712 499 989	-4.2	0.000 000	-0.001
3967.500	100 %	+20(Ref)	3967 499 998	0.0	0.000 000	0.000
	100 %	-30	3967 499 994	-3.8	0.000 000	-0.001
	100 %	-20	3967 499 995	-2.9	0.000 000	-0.001
	100 %	-10	3967 499 993	-4.9	0.000 000	-0.001
	100 %	0	3967 499 994	-3.8	0.000 000	-0.001
	100 %	+10	3967 499 996	-1.6	0.000 000	0.000
	100 %	+30	3967 499 996	-1.8	0.000 000	0.000
	100 %	+40	3967 499 996	-2.1	0.000 000	-0.001
	100 %	+50	3967 499 996	-2.3	0.000 000	-0.001
	Batt. Endpoint	+20	3967 499 996	-2.4	0.000 000	-0.001

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3715.020	100 %	+20(Ref)	3715 019 997	0.0	0.000 000	0.000
	100 %	-30	3715 019 992	-5.1	0.000 000	-0.001
	100 %	-20	3715 019 993	-4.4	0.000 000	-0.001
	100 %	-10	3715 019 994	-3.7	0.000 000	-0.001
	100 %	0	3715 019 991	-5.9	0.000 000	-0.002
	100 %	+10	3715 019 993	-3.8	0.000 000	-0.001
	100 %	+30	3715 019 993	-3.8	0.000 000	-0.001
	100 %	+40	3715 019 990	-6.9	0.000 000	-0.002
	100 %	+50	3715 019 993	-4.5	0.000 000	-0.001
	Batt. Endpoint	+20	3715 019 992	-5.5	0.000 000	-0.001
3964.980	100 %	+20(Ref)	3964 979 998	0.0	0.000 000	0.000
	100 %	-30	3964 979 995	-3.0	0.000 000	-0.001
	100 %	-20	3964 979 998	-0.5	0.000 000	0.000
	100 %	-10	3964 979 996	-2.2	0.000 000	-0.001
	100 %	0	3964 979 995	-3.7	0.000 000	-0.001
	100 %	+10	3964 979 995	-3.7	0.000 000	-0.001
	100 %	+30	3964 979 995	-3.4	0.000 000	-0.001
	100 %	+40	3964 979 994	-4.1	0.000 000	-0.001
	100 %	+50	3964 979 997	-1.8	0.000 000	0.000
	Batt. Endpoint	+20	3964 979 996	-1.9	0.000 000	0.000

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3720.000	100 %	+20(Ref)	3719 999 995	0.0	0.000 000	0.000
	100 %	-30	3719 999 991	-3.9	0.000 000	-0.001
	100 %	-20	3719 999 990	-4.6	0.000 000	-0.001
	100 %	-10	3719 999 990	-4.4	0.000 000	-0.001
	100 %	0	3719 999 989	-5.5	0.000 000	-0.001
	100 %	+10	3719 999 989	-5.4	0.000 000	-0.001
	100 %	+30	3719 999 989	-5.7	0.000 000	-0.002
	100 %	+40	3719 999 987	-7.7	0.000 000	-0.002
	100 %	+50	3719 999 989	-6.1	0.000 000	-0.002
	Batt. Endpoint	+20	3719 999 990	-4.6	0.000 000	-0.001
3960.000	100 %	+20(Ref)	3959 999 995	0.0	0.000 000	0.000
	100 %	-30	3959 999 990	-5.2	0.000 000	-0.001
	100 %	-20	3959 999 992	-3.7	0.000 000	-0.001
	100 %	-10	3959 999 991	-4.6	0.000 000	-0.001
	100 %	0	3959 999 992	-3.3	0.000 000	-0.001
	100 %	+10	3959 999 990	-5.4	0.000 000	-0.001
	100 %	+30	3959 999 991	-5.0	0.000 000	-0.001
	100 %	+40	3959 999 992	-3.4	0.000 000	-0.001
	100 %	+50	3959 999 989	-6.6	0.000 000	-0.002
	Batt. Endpoint	+20	3959 999 992	-3.2	0.000 000	-0.001

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3725.010	100 %	+20(Ref)	3725 009 996	0.0	0.000 000	0.000
	100 %	-30	3725 009 990	-5.3	0.000 000	-0.001
	100 %	-20	3725 009 991	-5.0	0.000 000	-0.001
	100 %	-10	3725 009 990	-5.6	0.000 000	-0.002
	100 %	0	3725 009 990	-6.0	0.000 000	-0.002
	100 %	+10	3725 009 989	-6.3	0.000 000	-0.002
	100 %	+30	3725 009 991	-4.5	0.000 000	-0.001
	100 %	+40	3725 009 991	-5.1	0.000 000	-0.001
	100 %	+50	3725 009 992	-4.0	0.000 000	-0.001
	Batt. Endpoint	+20	3725 009 991	-4.5	0.000 000	-0.001
3954.990	100 %	+20(Ref)	3954 990 002	0.0	0.000 000	0.000
	100 %	-30	3954 989 997	-4.7	0.000 000	-0.001
	100 %	-20	3954 989 999	-3.5	0.000 000	-0.001
	100 %	-10	3954 989 998	-4.5	0.000 000	-0.001
	100 %	0	3954 989 999	-3.2	0.000 000	-0.001
	100 %	+10	3954 989 997	-4.7	0.000 000	-0.001
	100 %	+30	3954 989 997	-5.1	0.000 000	-0.001
	100 %	+40	3954 989 998	-4.1	0.000 000	-0.001
	100 %	+50	3954 989 996	-6.5	0.000 000	-0.002
	Batt. Endpoint	+20	3954 989 999	-3.1	0.000 000	-0.001

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3730.020	100 %	+20(Ref)	3730 019 994	0.0	0.000 000	0.000
	100 %	-30	3730 019 989	-4.2	0.000 000	-0.001
	100 %	-20	3730 019 990	-3.5	0.000 000	-0.001
	100 %	-10	3730 019 988	-5.2	0.000 000	-0.001
	100 %	0	3730 019 988	-5.9	0.000 000	-0.002
	100 %	+10	3730 019 988	-5.2	0.000 000	-0.001
	100 %	+30	3730 019 986	-7.3	0.000 000	-0.002
	100 %	+40	3730 019 991	-2.7	0.000 000	-0.001
	100 %	+50	3730 019 987	-6.7	0.000 000	-0.002
	Batt. Endpoint	+20	3730 019 987	-6.1	0.000 000	-0.002
3949.980	100 %	+20(Ref)	3949 979 995	0.0	0.000 000	0.000
	100 %	-30	3949 979 991	-3.3	0.000 000	-0.001
	100 %	-20	3949 979 992	-2.6	0.000 000	-0.001
	100 %	-10	3949 979 989	-5.3	0.000 000	-0.001
	100 %	0	3949 979 989	-5.3	0.000 000	-0.001
	100 %	+10	3949 979 987	-7.2	0.000 000	-0.002
	100 %	+30	3949 979 989	-6.1	0.000 000	-0.002
	100 %	+40	3949 979 992	-2.9	0.000 000	-0.001
	100 %	+50	3949 979 989	-5.5	0.000 000	-0.001
	Batt. Endpoint	+20	3949 979 991	-3.3	0.000 000	-0.001

- ▣ BandWidth: 70 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3735.000	100 %	+20(Ref)	3735 000 002	0.0	0.000 000	0.000
	100 %	-30	3735 000 004	1.4	0.000 000	0.000
	100 %	-20	3734 999 999	-2.9	0.000 000	-0.001
	100 %	-10	3735 000 004	2.1	0.000 000	0.001
	100 %	0	3735 000 002	-0.3	0.000 000	0.000
	100 %	+10	3735 000 007	4.2	0.000 000	0.001
	100 %	+30	3735 000 000	-2.4	0.000 000	-0.001
	100 %	+40	3734 999 999	-3.3	0.000 000	-0.001
	100 %	+50	3734 999 999	-3.1	0.000 000	-0.001
	Batt. Endpoint	+20	3735 000 000	-2.2	0.000 000	-0.001
3945.000	100 %	+20(Ref)	3944 999 994	0.0	0.000 000	0.000
	100 %	-30	3944 999 991	-3.7	0.000 000	-0.001
	100 %	-20	3944 999 990	-4.7	0.000 000	-0.001
	100 %	-10	3944 999 991	-3.2	0.000 000	-0.001
	100 %	0	3944 999 988	-6.1	0.000 000	-0.002
	100 %	+10	3944 999 989	-5.1	0.000 000	-0.001
	100 %	+30	3944 999 991	-2.8	0.000 000	-0.001
	100 %	+40	3944 999 991	-3.1	0.000 000	-0.001
	100 %	+50	3944 999 990	-4.6	0.000 000	-0.001
	Batt. Endpoint	+20	3944 999 990	-4.3	0.000 000	-0.001

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3740.010	100 %	+20(Ref)	3740 009 992	0.0	0.000 000	0.000
	100 %	-30	3740 009 986	-5.9	0.000 000	-0.002
	100 %	-20	3740 009 988	-4.3	0.000 000	-0.001
	100 %	-10	3740 009 984	-7.7	0.000 000	-0.002
	100 %	0	3740 009 987	-5.0	0.000 000	-0.001
	100 %	+10	3740 009 986	-5.7	0.000 000	-0.002
	100 %	+30	3740 009 983	-8.7	0.000 000	-0.002
	100 %	+40	3740 009 987	-4.8	0.000 000	-0.001
	100 %	+50	3740 009 987	-4.8	0.000 000	-0.001
	Batt. Endpoint	+20	3740 009 984	-8.4	0.000 000	-0.002
3939.990	100 %	+20(Ref)	3939 989 994	0.0	0.000 000	0.000
	100 %	-30	3939 989 988	-5.4	0.000 000	-0.001
	100 %	-20	3939 989 986	-7.6	0.000 000	-0.002
	100 %	-10	3939 989 990	-3.8	0.000 000	-0.001
	100 %	0	3939 989 991	-2.4	0.000 000	-0.001
	100 %	+10	3939 989 989	-5.2	0.000 000	-0.001
	100 %	+30	3939 989 990	-4.2	0.000 000	-0.001
	100 %	+40	3939 989 990	-4.4	0.000 000	-0.001
	100 %	+50	3939 989 990	-4.2	0.000 000	-0.001
	Batt. Endpoint	+20	3939 989 991	-2.8	0.000 000	-0.001

- ▣ BandWidth: 90 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

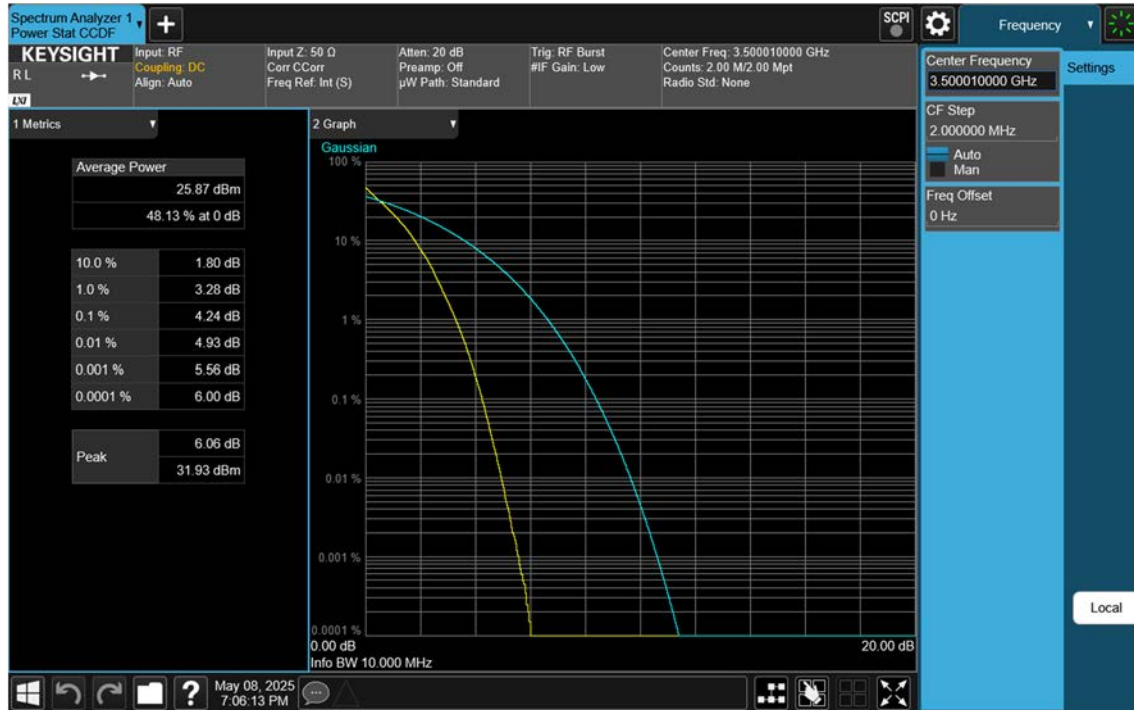
Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3745.020	100 %	+20(Ref)	3745 019 995	0.0	0.000 000	0.000
	100 %	-30	3745 019 991	-4.0	0.000 000	-0.001
	100 %	-20	3745 019 990	-4.4	0.000 000	-0.001
	100 %	-10	3745 019 990	-4.2	0.000 000	-0.001
	100 %	0	3745 019 990	-4.4	0.000 000	-0.001
	100 %	+10	3745 019 989	-5.8	0.000 000	-0.002
	100 %	+30	3745 019 989	-5.6	0.000 000	-0.001
	100 %	+40	3745 019 989	-5.5	0.000 000	-0.001
	100 %	+50	3745 019 989	-5.3	0.000 000	-0.001
	Batt. Endpoint	+20	3745 019 991	-3.2	0.000 000	-0.001
3934.980	100 %	+20(Ref)	3934 979 992	0.0	0.000 000	0.000
	100 %	-30	3934 979 987	-5.1	0.000 000	-0.001
	100 %	-20	3934 979 986	-5.5	0.000 000	-0.001
	100 %	-10	3934 979 987	-4.7	0.000 000	-0.001
	100 %	0	3934 979 987	-4.5	0.000 000	-0.001
	100 %	+10	3934 979 988	-3.9	0.000 000	-0.001
	100 %	+30	3934 979 987	-4.7	0.000 000	-0.001
	100 %	+40	3934 979 990	-2.0	0.000 000	0.000
	100 %	+50	3934 979 988	-3.6	0.000 000	-0.001
	Batt. Endpoint	+20	3934 979 988	-4.0	0.000 000	-0.001

- ▣ BandWidth: 100 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 2.750 VDC
- ▣ LIMIT: Emission must remain in band

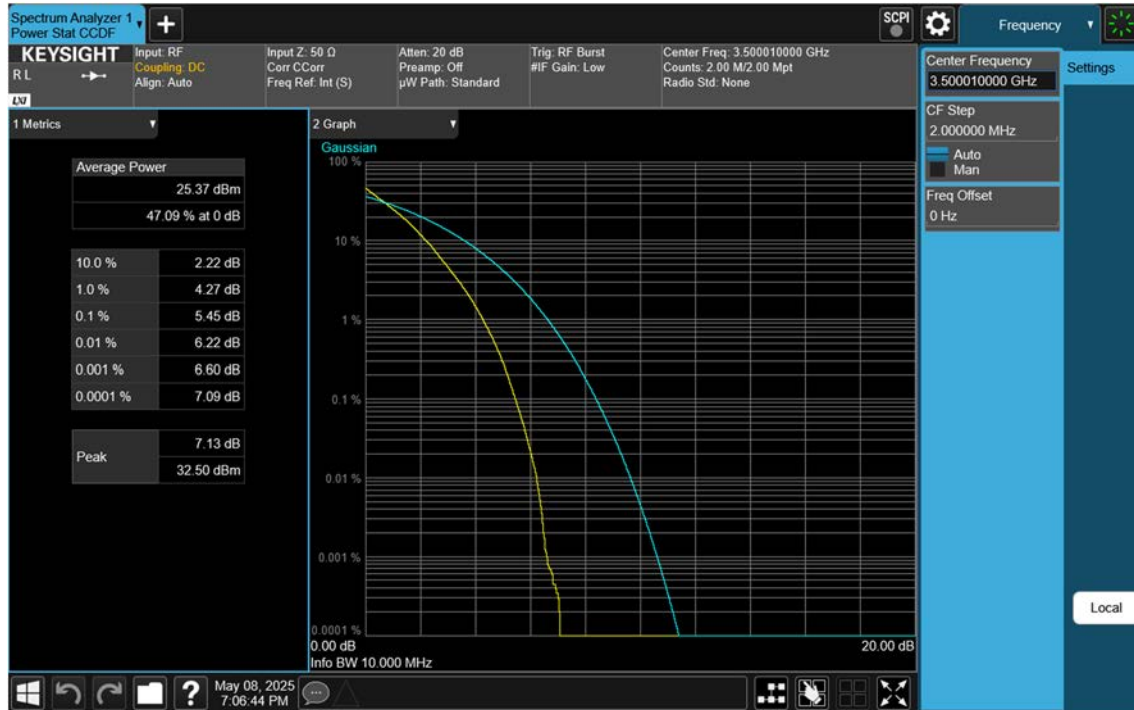
Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3750.000	100 %	+20(Ref)	3749 999 993	0.0	0.000 000	0.000
	100 %	-30	3749 999 987	-5.4	0.000 000	-0.001
	100 %	-20	3749 999 988	-4.6	0.000 000	-0.001
	100 %	-10	3749 999 986	-7.1	0.000 000	-0.002
	100 %	0	3749 999 986	-7.1	0.000 000	-0.002
	100 %	+10	3749 999 987	-5.6	0.000 000	-0.001
	100 %	+30	3749 999 987	-5.6	0.000 000	-0.001
	100 %	+40	3749 999 987	-5.6	0.000 000	-0.001
	100 %	+50	3749 999 986	-7.2	0.000 000	-0.002
	Batt. Endpoint	+20	3749 999 986	-7.1	0.000 000	-0.002
3930.000	100 %	+20(Ref)	3929 999 994	0.0	0.000 000	0.000
	100 %	-30	3929 999 989	-4.5	0.000 000	-0.001
	100 %	-20	3929 999 989	-5.0	0.000 000	-0.001
	100 %	-10	3929 999 989	-5.0	0.000 000	-0.001
	100 %	0	3929 999 990	-4.0	0.000 000	-0.001
	100 %	+10	3929 999 988	-5.6	0.000 000	-0.001
	100 %	+30	3929 999 989	-4.6	0.000 000	-0.001
	100 %	+40	3929 999 989	-4.4	0.000 000	-0.001
	100 %	+50	3929 999 991	-2.4	0.000 000	-0.001
	Batt. Endpoint	+20	3929 999 988	-5.1	0.000 000	-0.001

10. TEST PLOTS(3450 MHz - 3550 MHz)

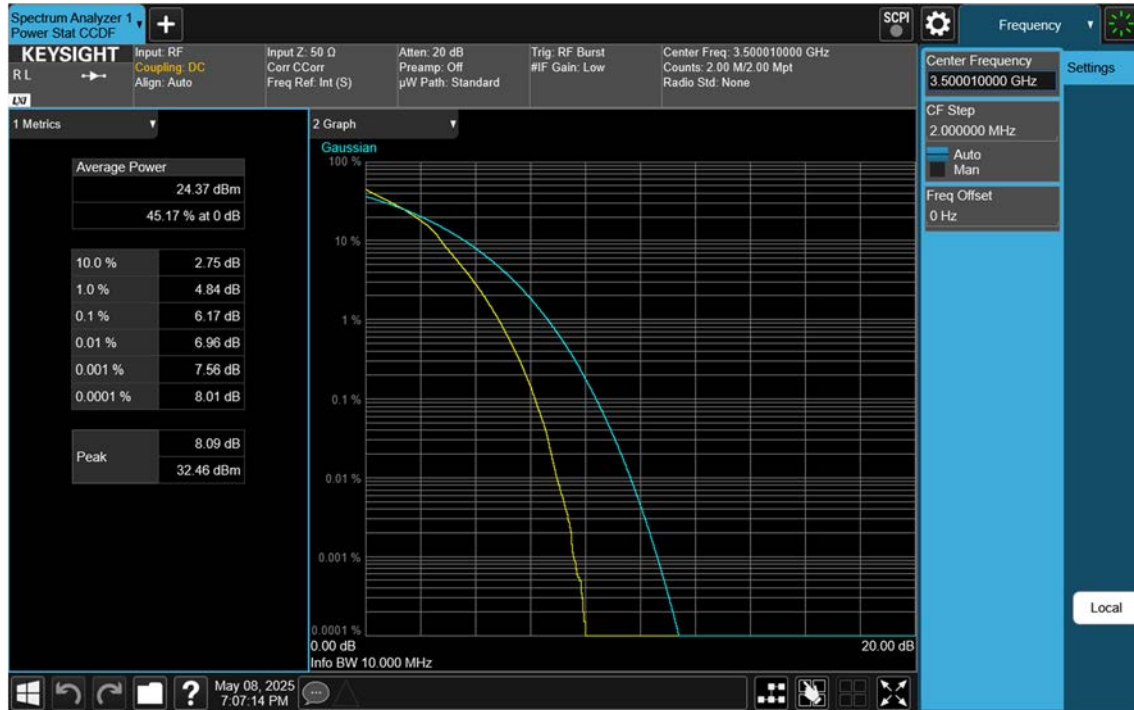
n77(3450~3550 MHz)_10 M_PAR_Mid_BPSK_FullRB



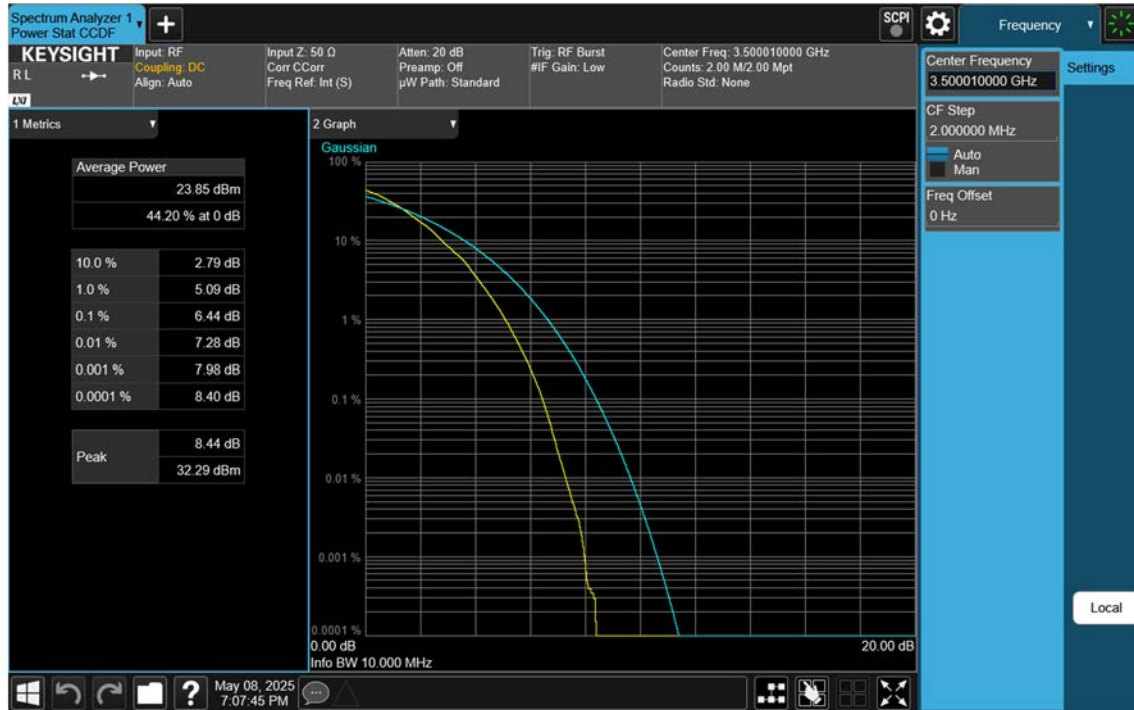
n77(3450~3550 MHz)_10 M_PAR_Mid_QPSK_FullRB



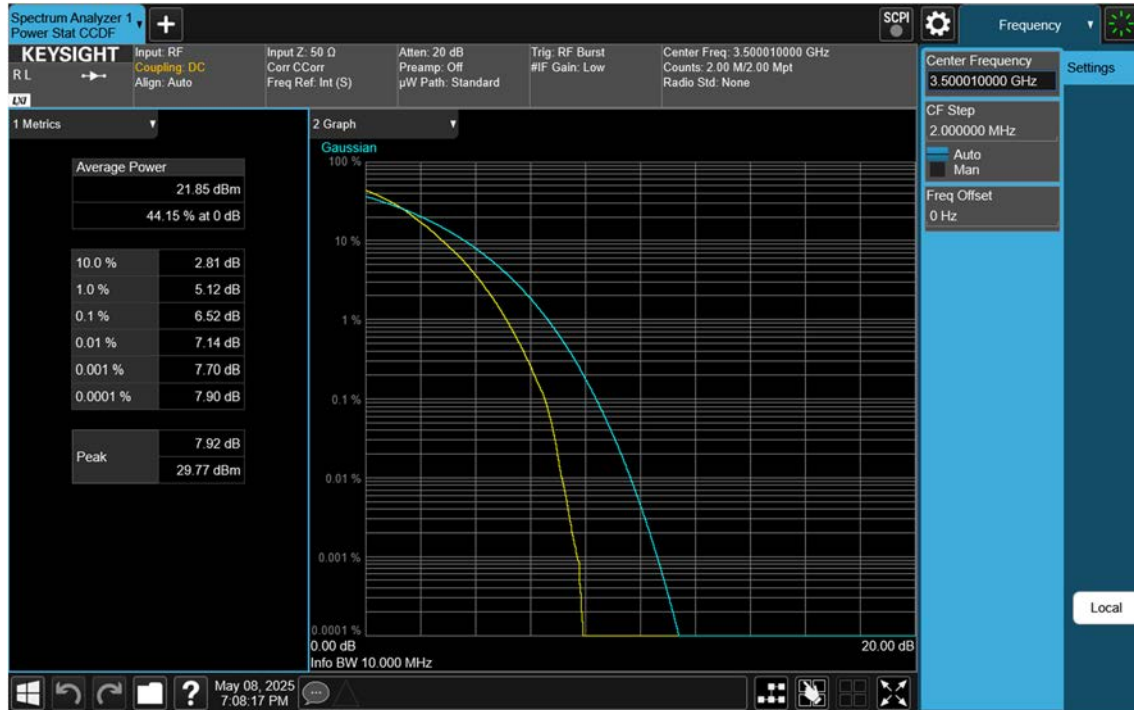
n77(3450~3550 MHz)_10 M_PAR_Mid_16QAM_FullRB



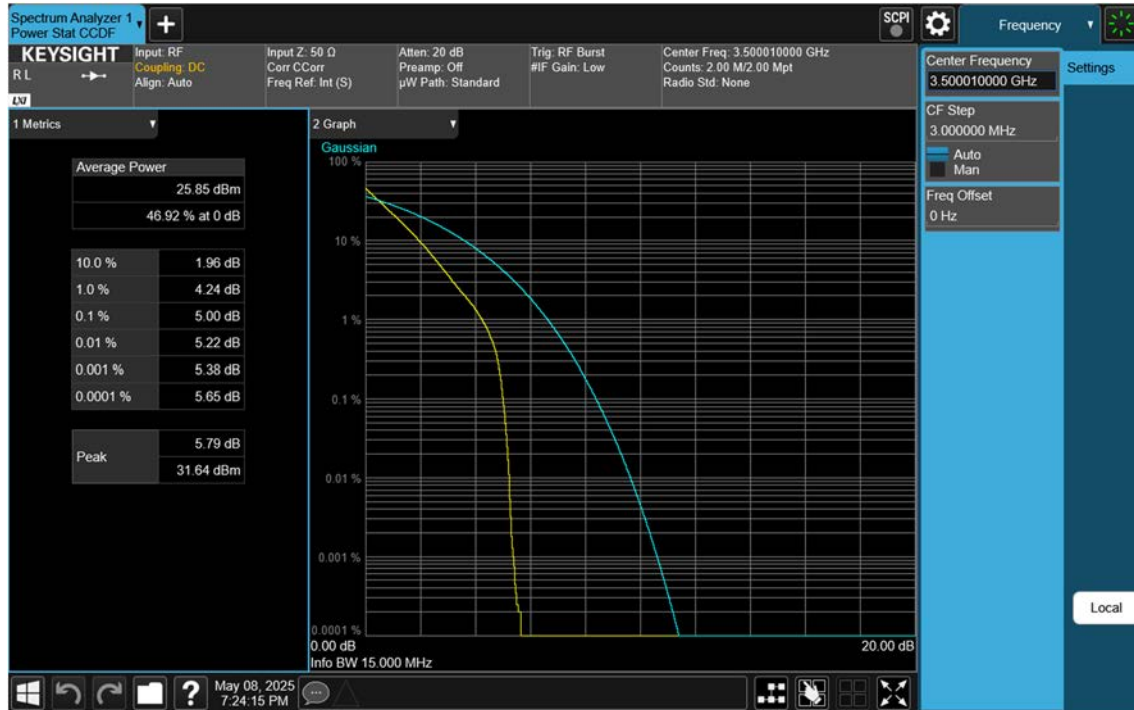
n77(3450~3550 MHz)_10 M_PAR_Mid_64QAM_FullRB



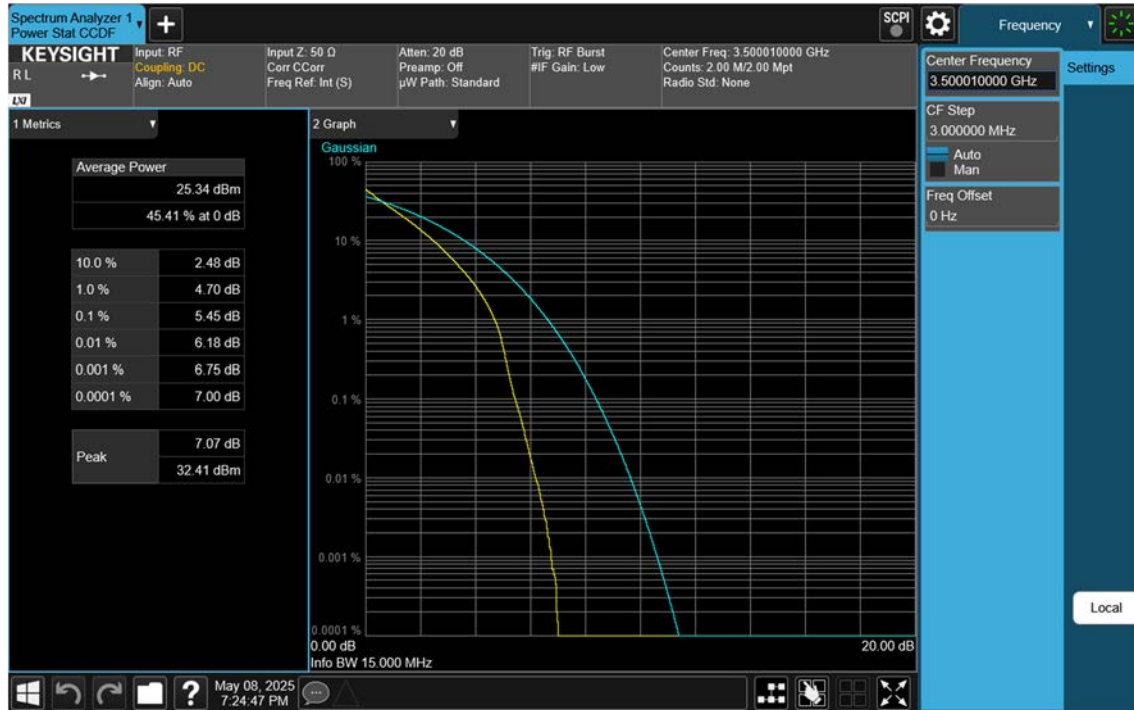
n77(3450~3550 MHz)_10 M_PAR_Mid_256QAM_FullRB



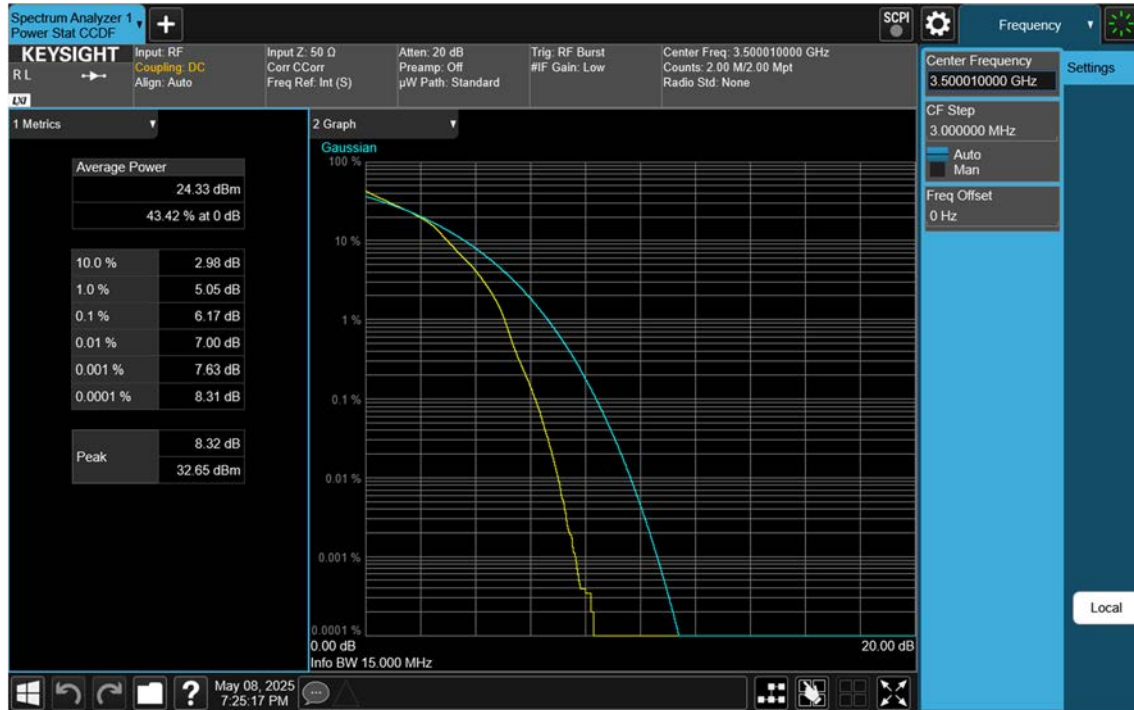
n77(3450~3550 MHz)_15 M_PAR_Mid_BPSK_FullRB



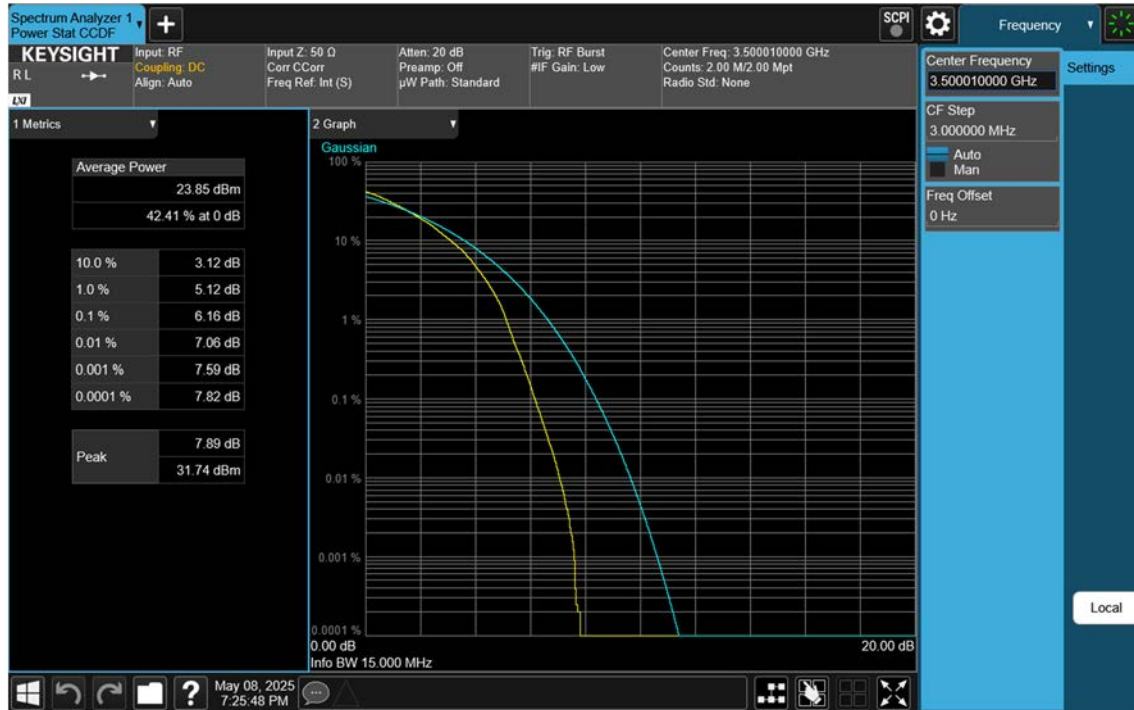
n77(3450~3550 MHz)_15 M_PAR_Mid_QPSK_FullRB



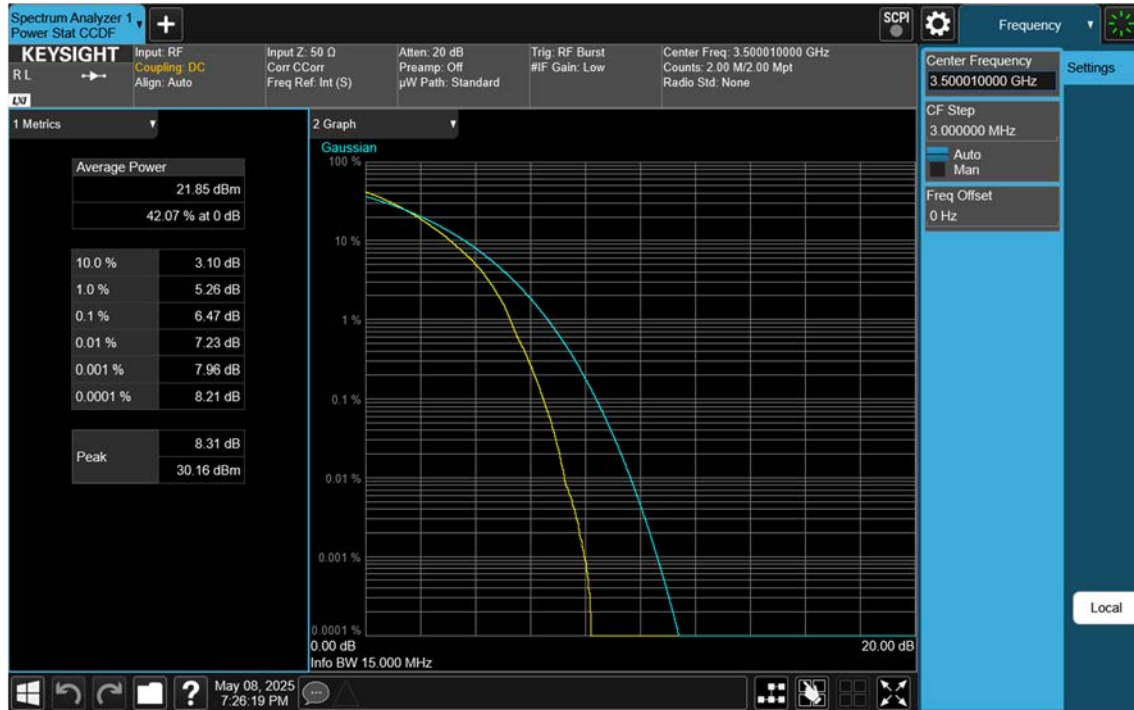
n77(3450~3550 MHz)_15 M_PAR_Mid_16QAM_FullRB



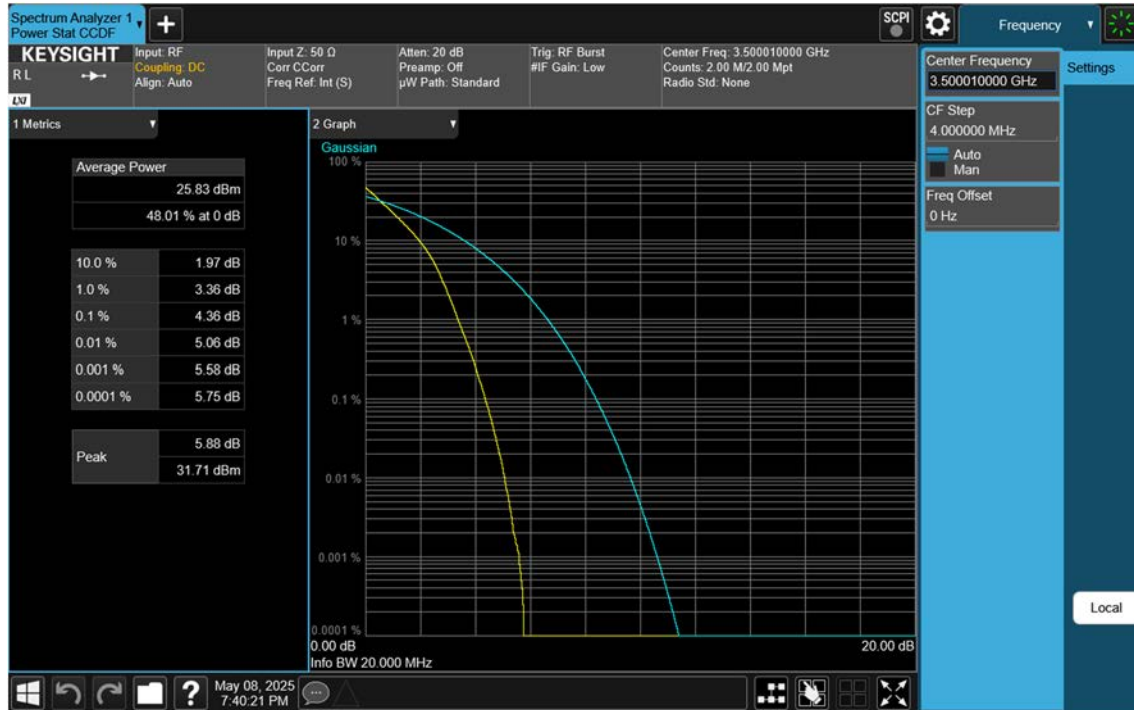
n77(3450~3550 MHz)_15 M_PAR_Mid_64QAM_FullRB



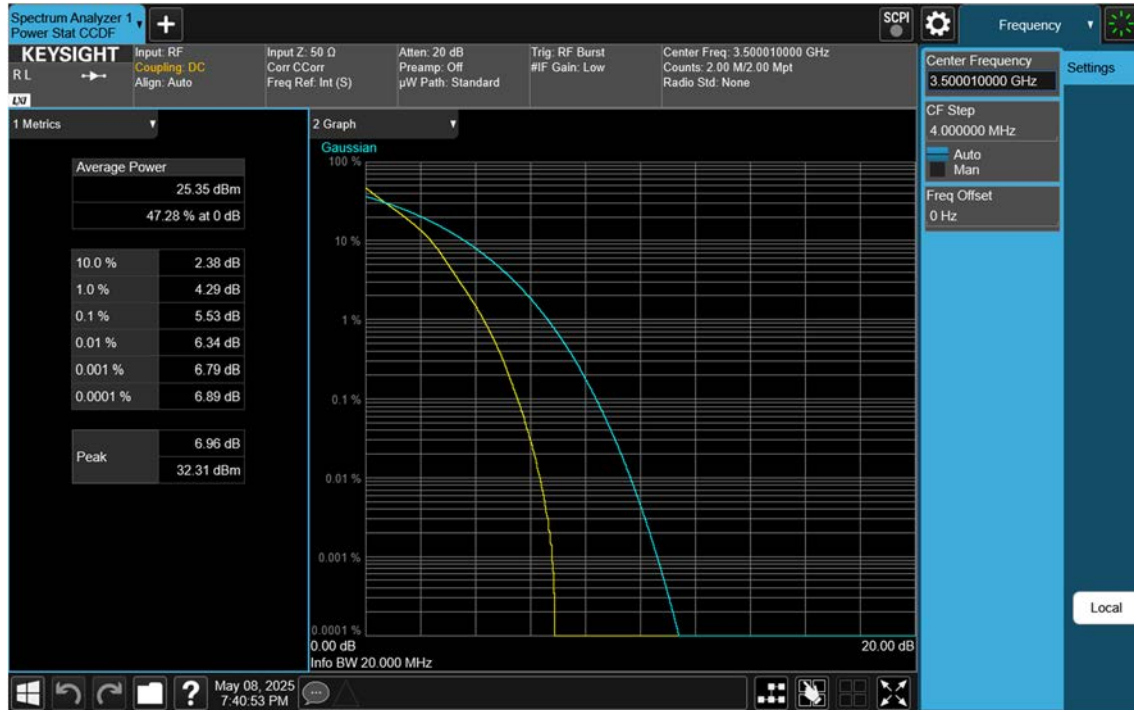
n77(3450~3550 MHz)_15 M_PAR_Mid_256QAM_FullRB



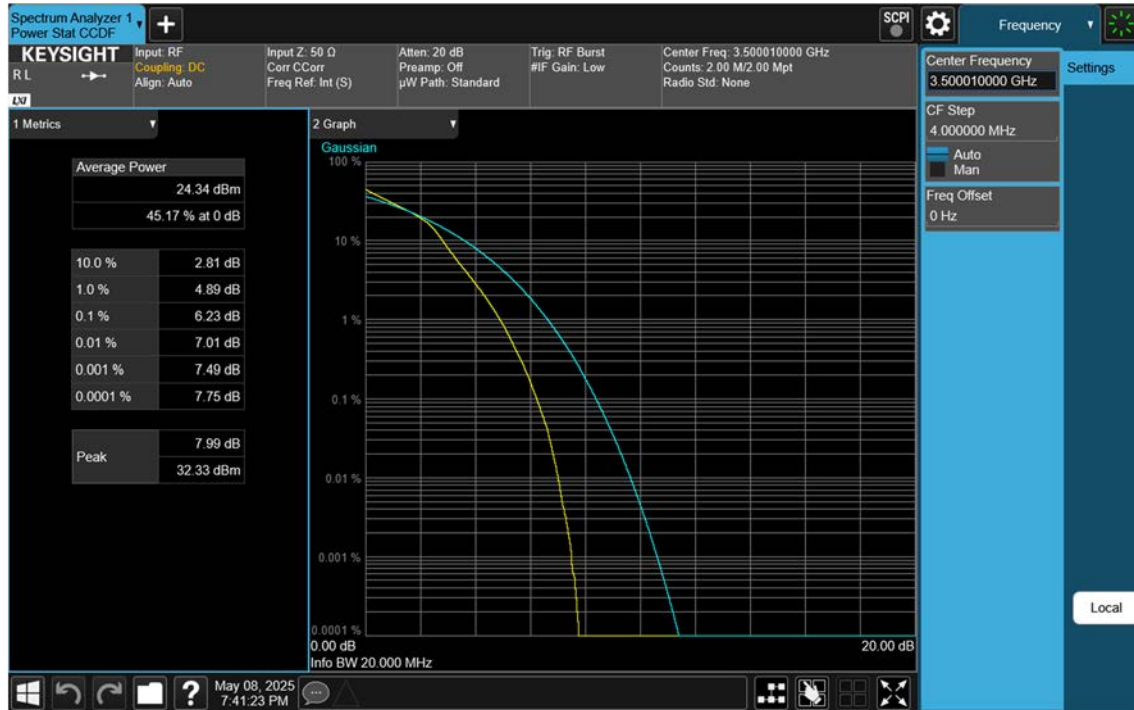
n77(3450~3550 MHz)_20 M_PAR_Mid_BPSK_FullRB



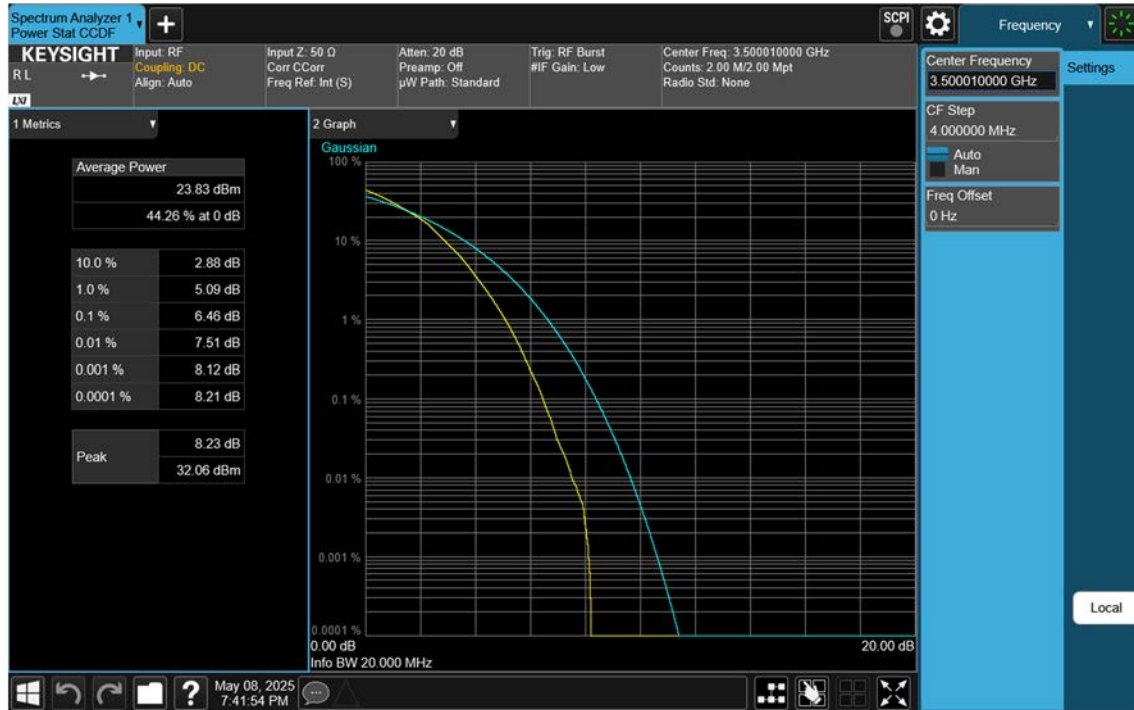
n77(3450~3550 MHz)_20 M_PAR_Mid_QPSK_FullRB



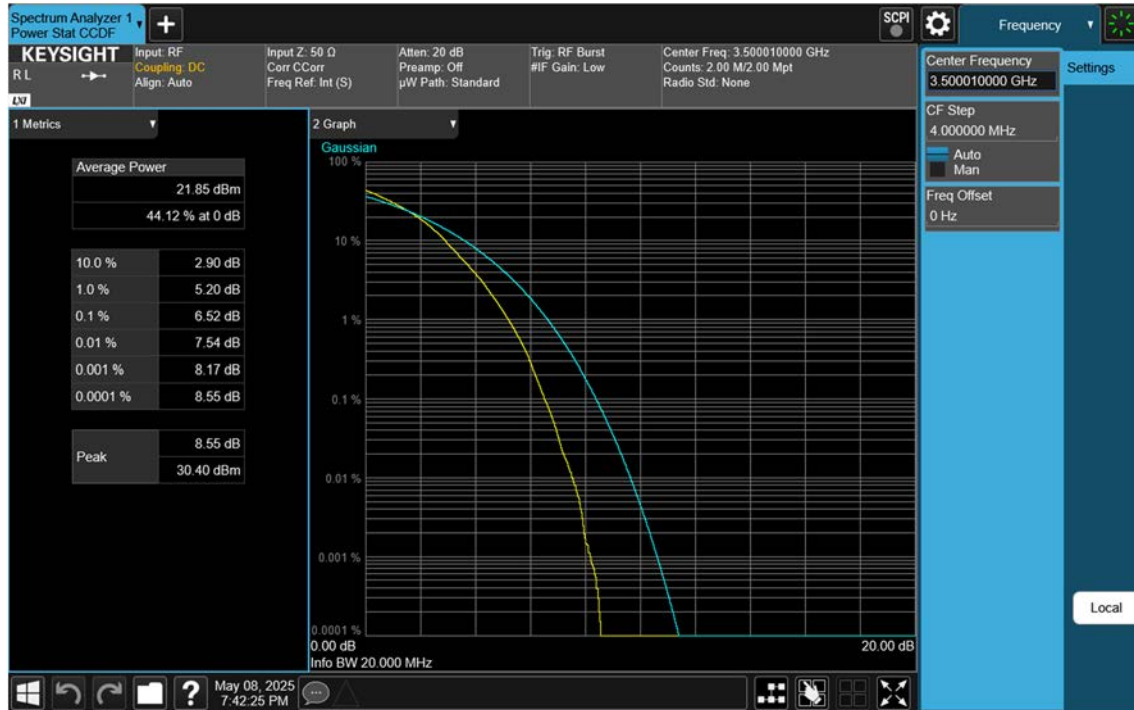
n77(3450~3550 MHz)_20 M_PAR_Mid_16QAM_FullRB



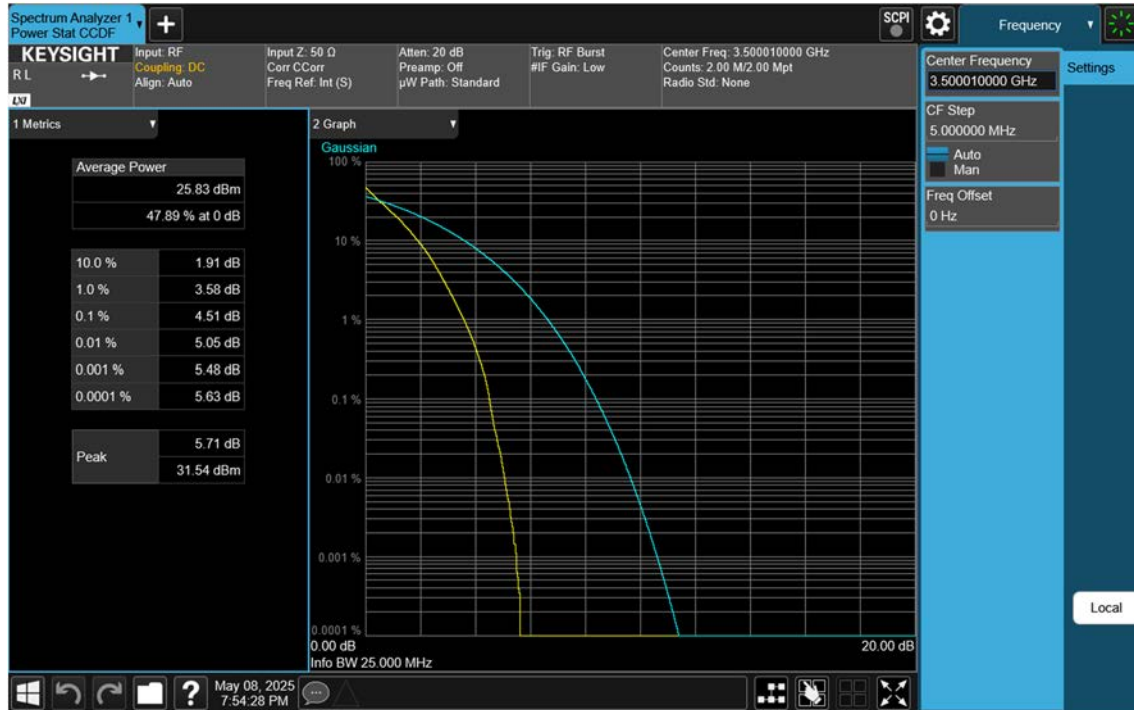
n77(3450~3550 MHz)_20 M_PAR_Mid_64QAM_FullRB



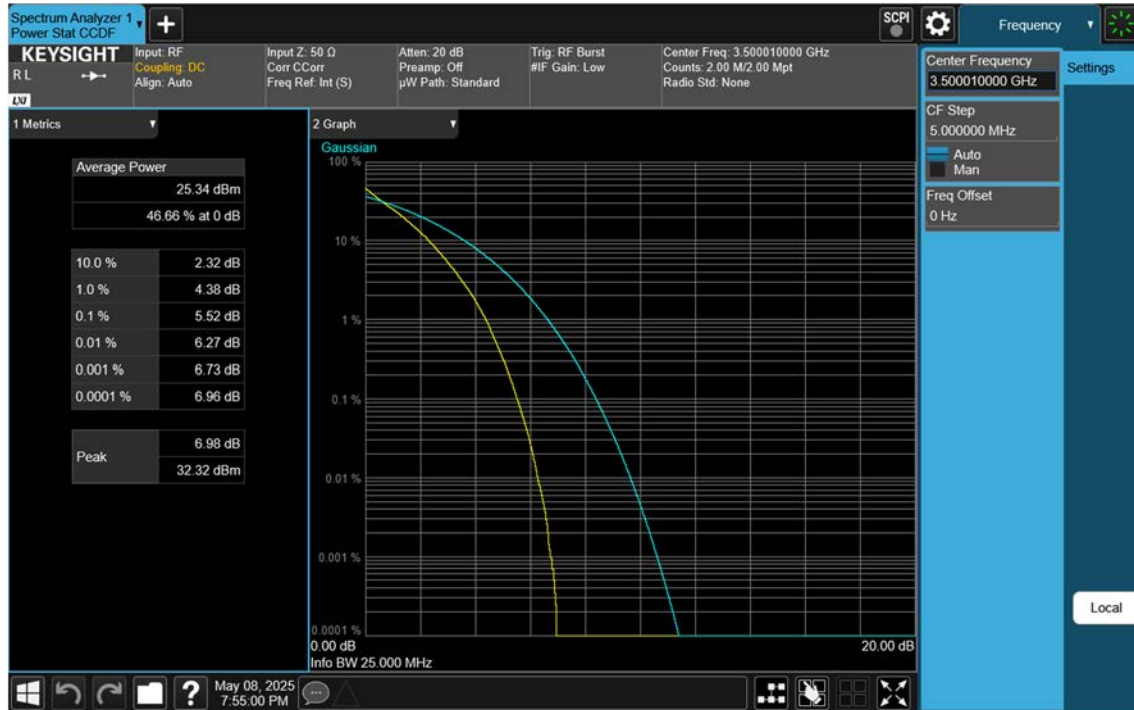
n77(3450~3550 MHz)_20 M_PAR_Mid_256QAM_FullRB



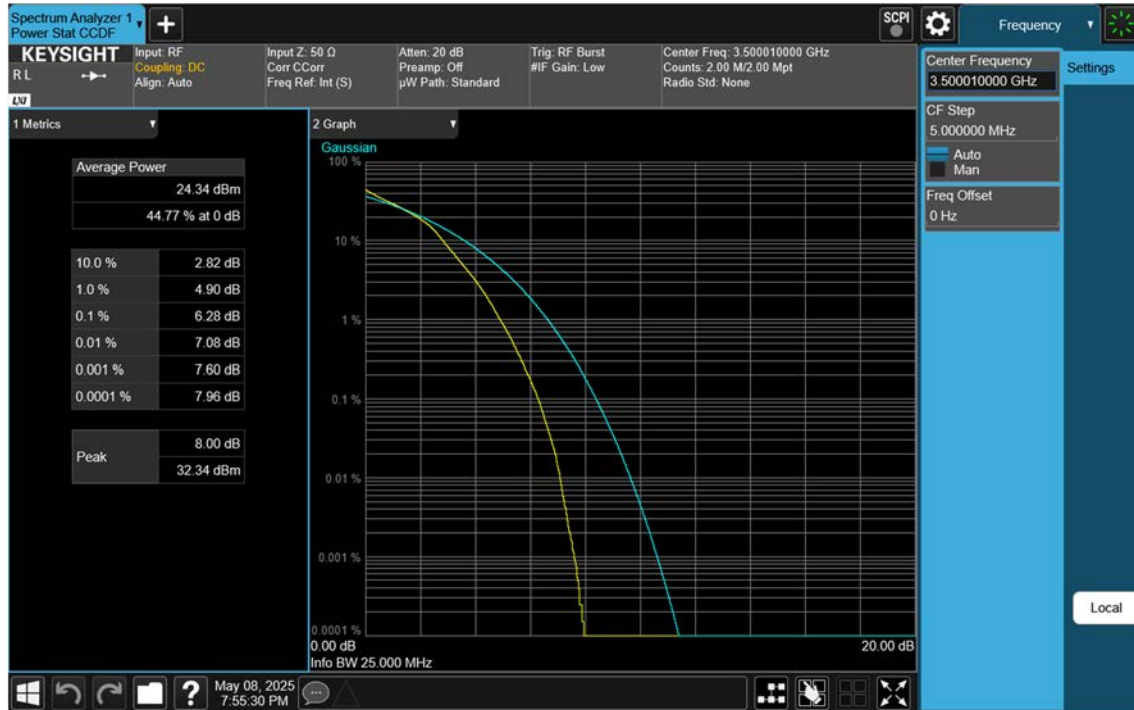
n77(3450~3550 MHz)_25 M_PAR_Mid_BPSK_FullRB



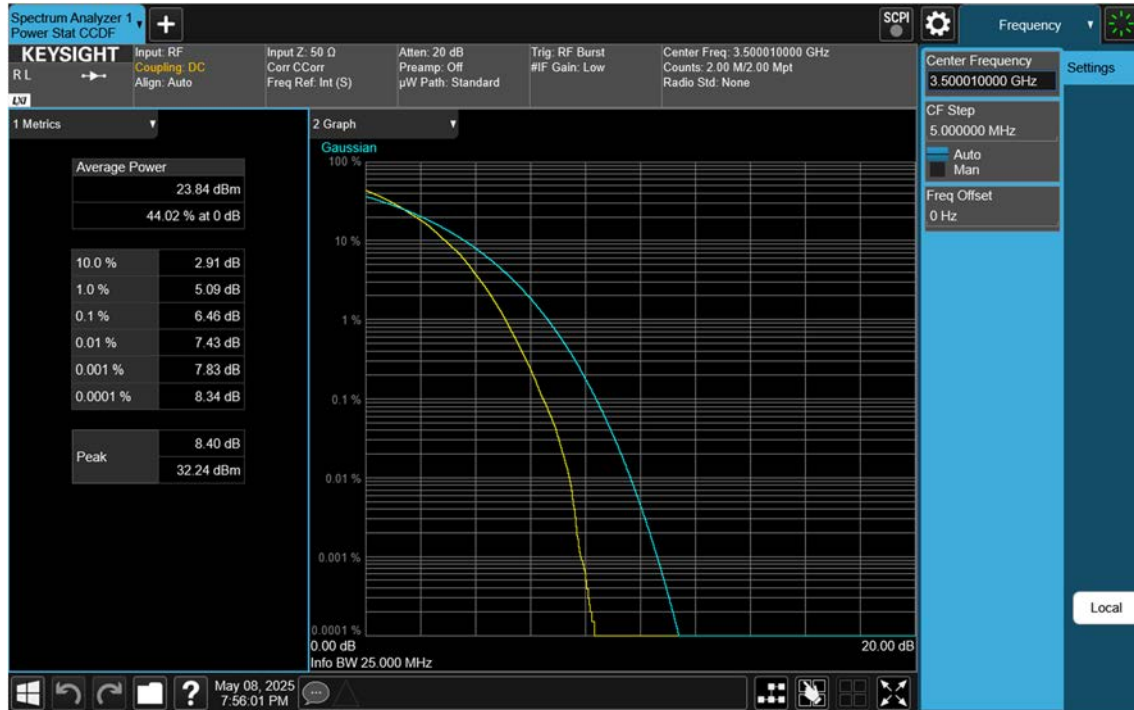
n77(3450~3550 MHz)_25 M_PAR_Mid_QPSK_FullRB



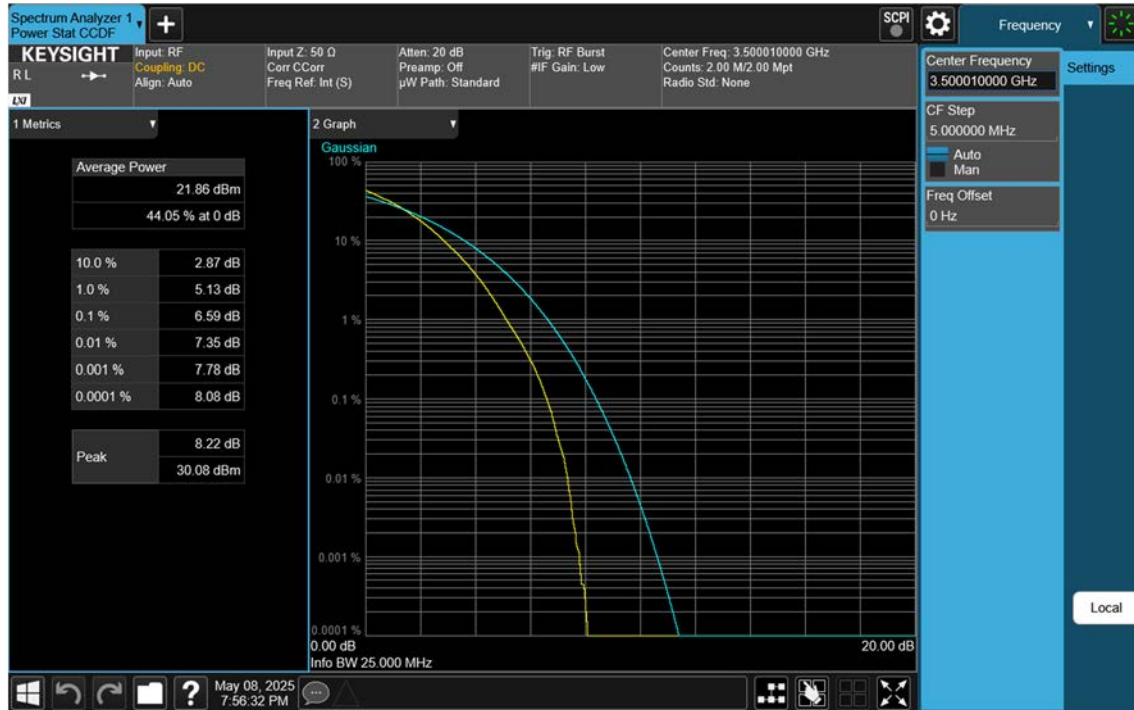
n77(3450~3550 MHz)_25 M_PAR_Mid_16QAM_FullRB



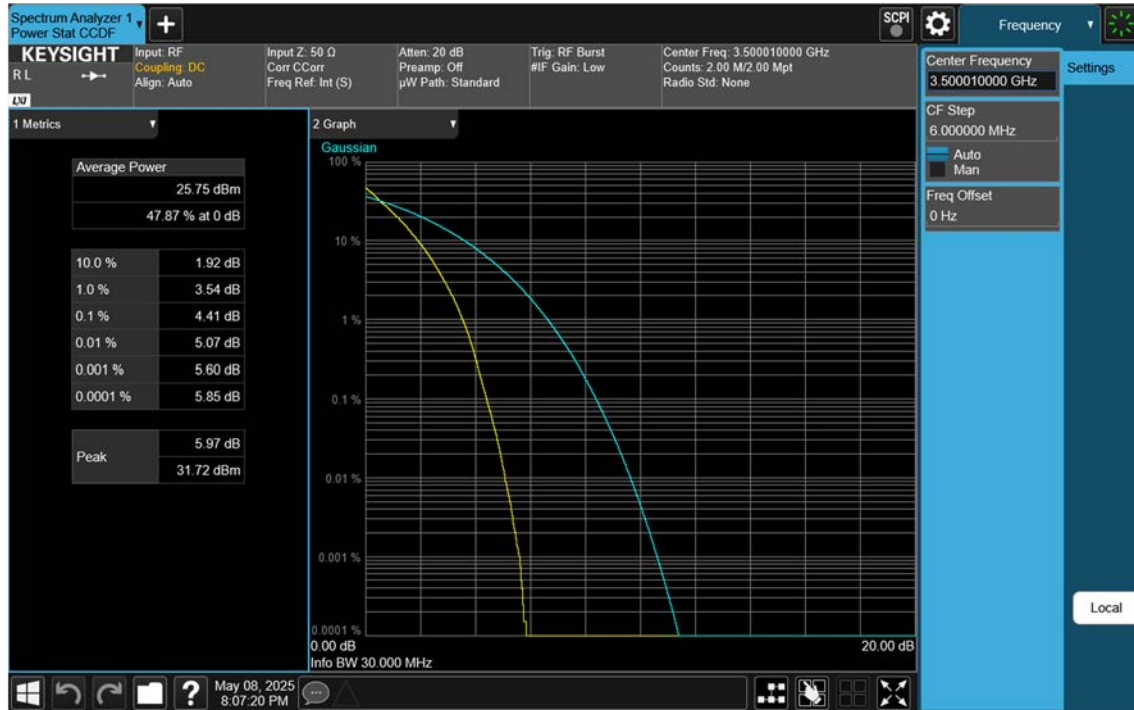
n77(3450~3550 MHz)_25 M_PAR_Mid_64QAM_FullRB



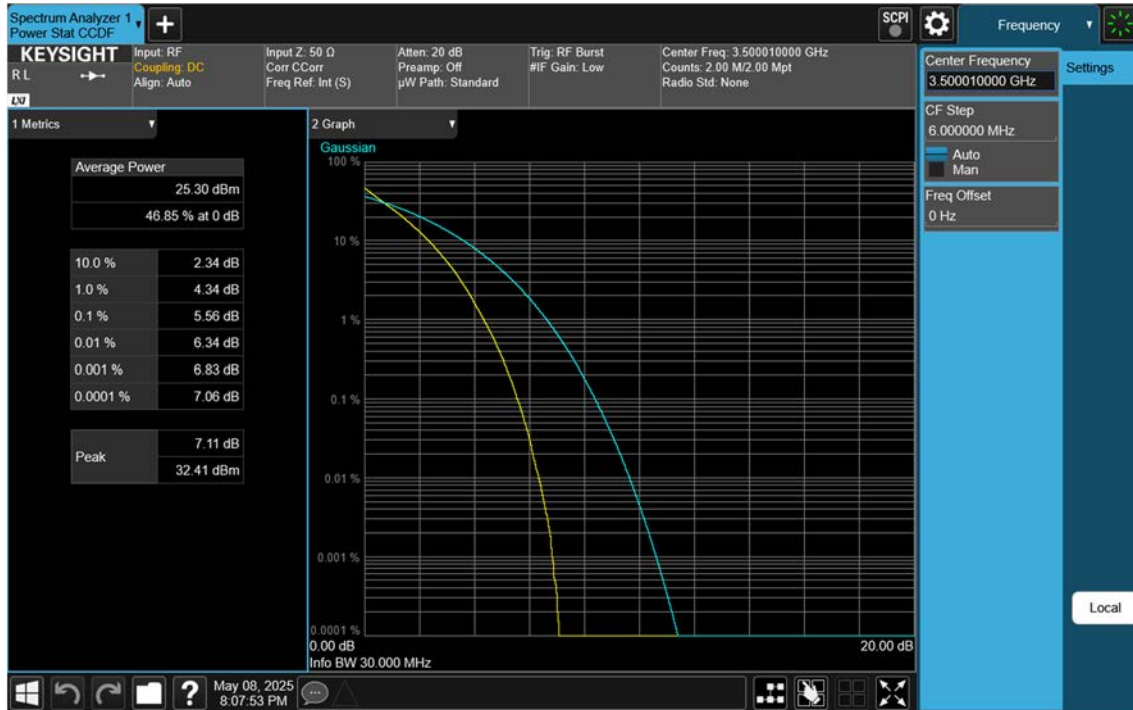
n77(3450~3550 MHz)_25 M_PAR_Mid_256QAM_FullRB



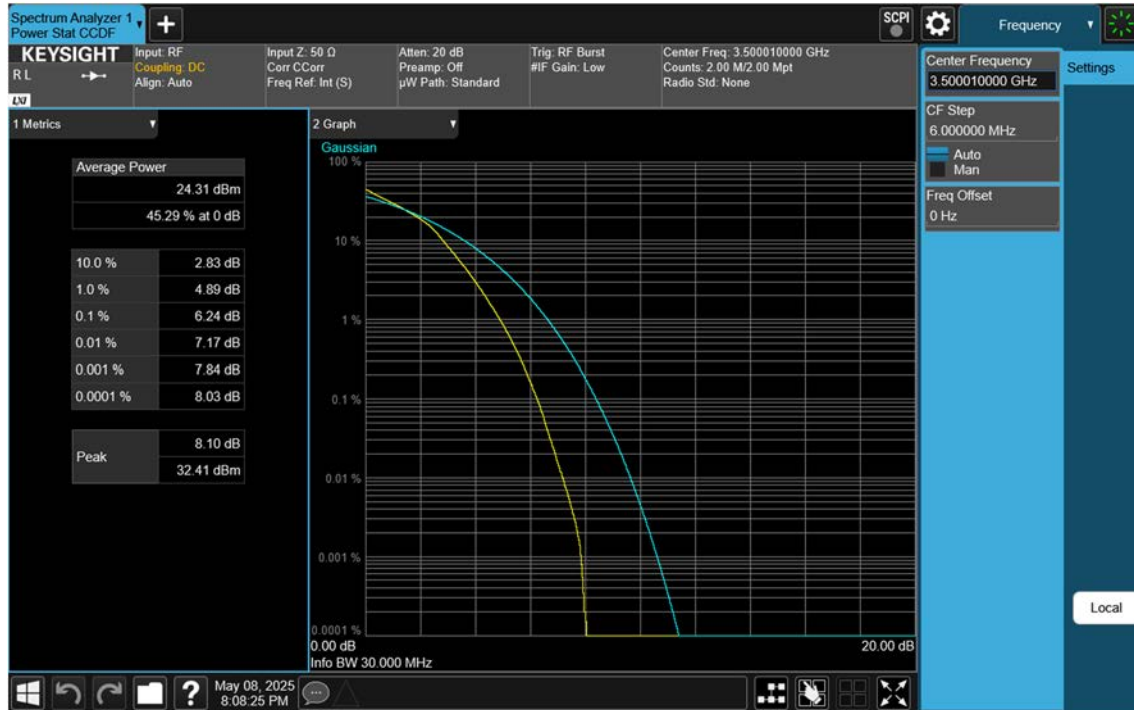
n77(3450~3550 MHz)_30 M_PAR_Mid_BPSK_FullRB



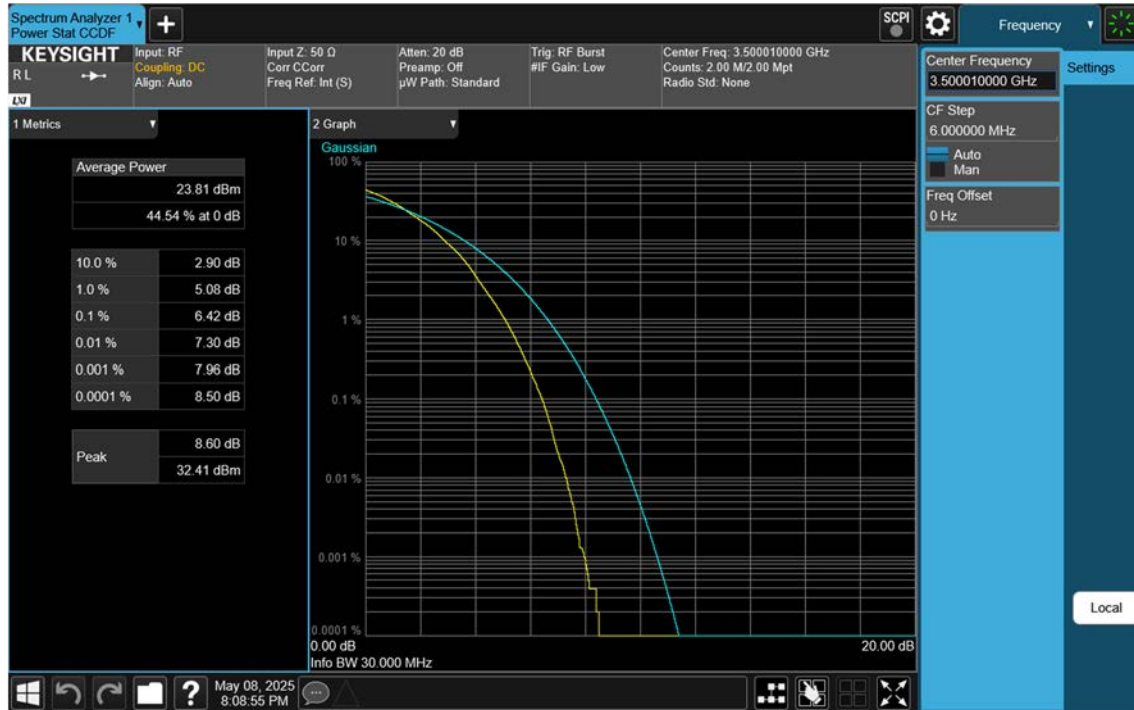
n77(3450~3550 MHz)_30 M_PAR_Mid_QPSK_FullRB



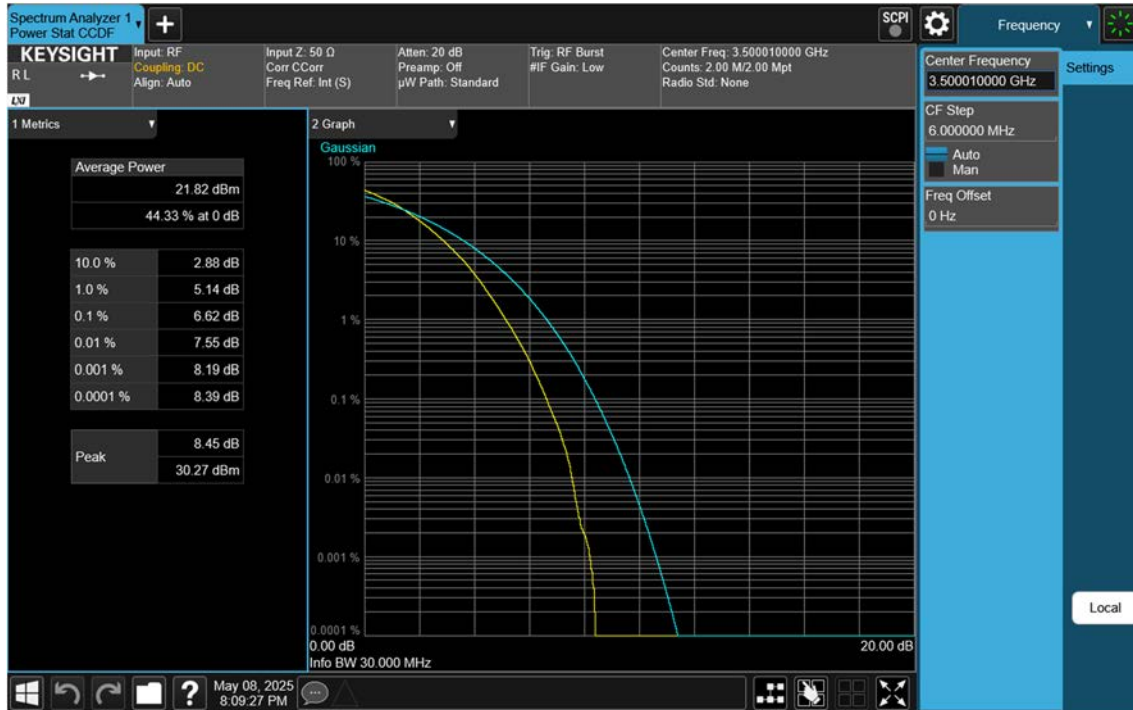
n77(3450~3550 MHz)_30 M_PAR_Mid_16QAM_FullRB



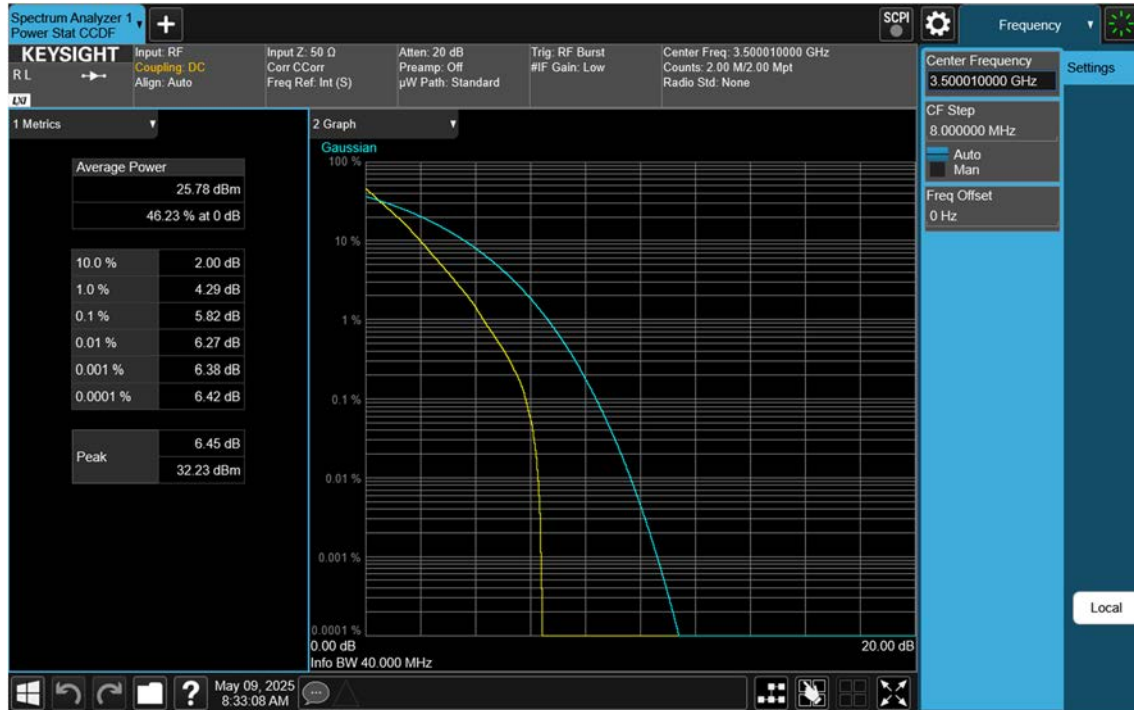
n77(3450~3550 MHz)_30 M_PAR_Mid_64QAM_FullRB



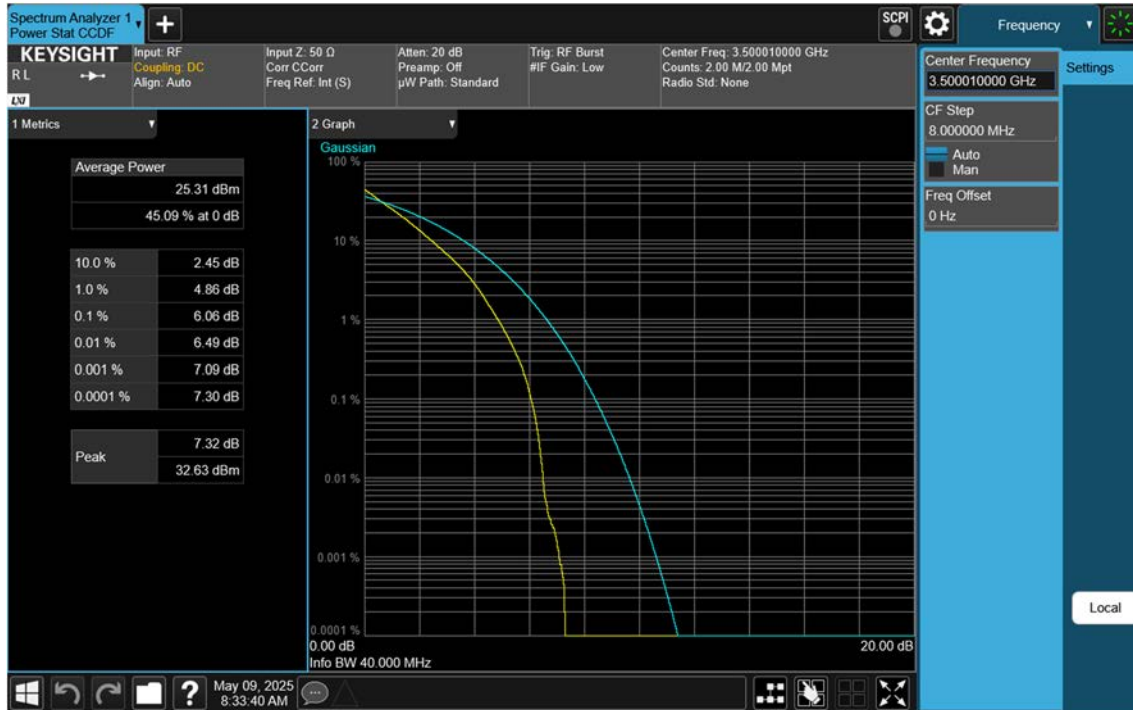
n77(3450~3550 MHz)_30 M_PAR_Mid_256QAM_FullRB



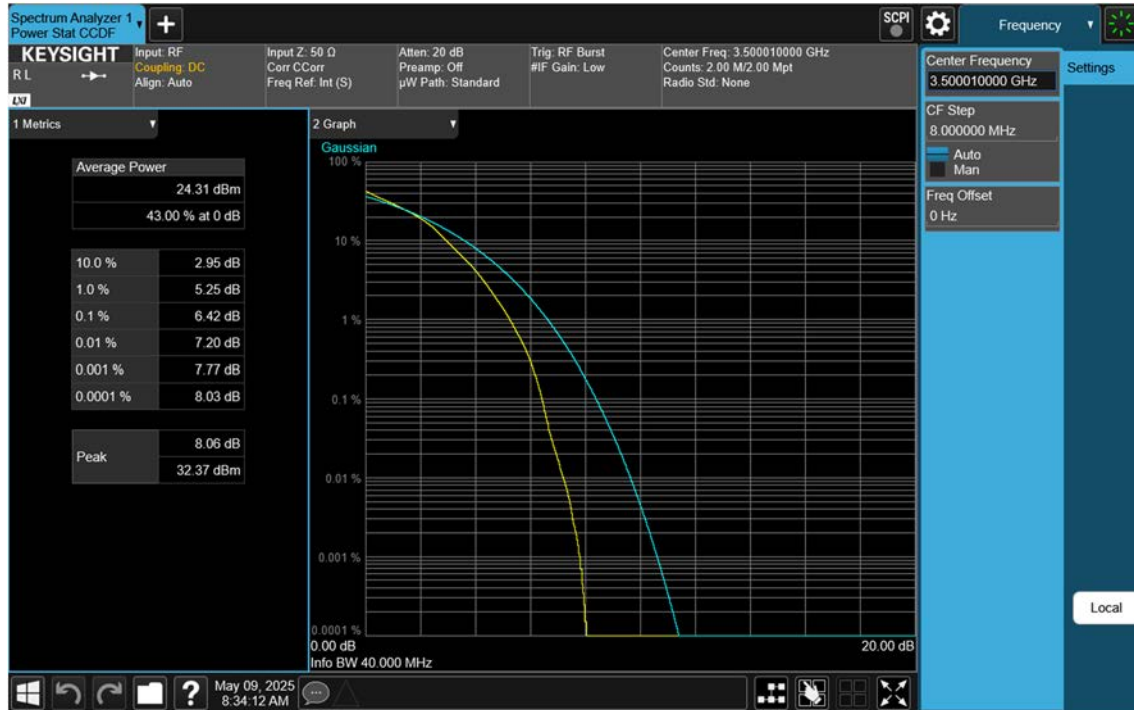
n77(3450~3550 MHz)_40 M_PAR_Mid_BPSK_FullRB



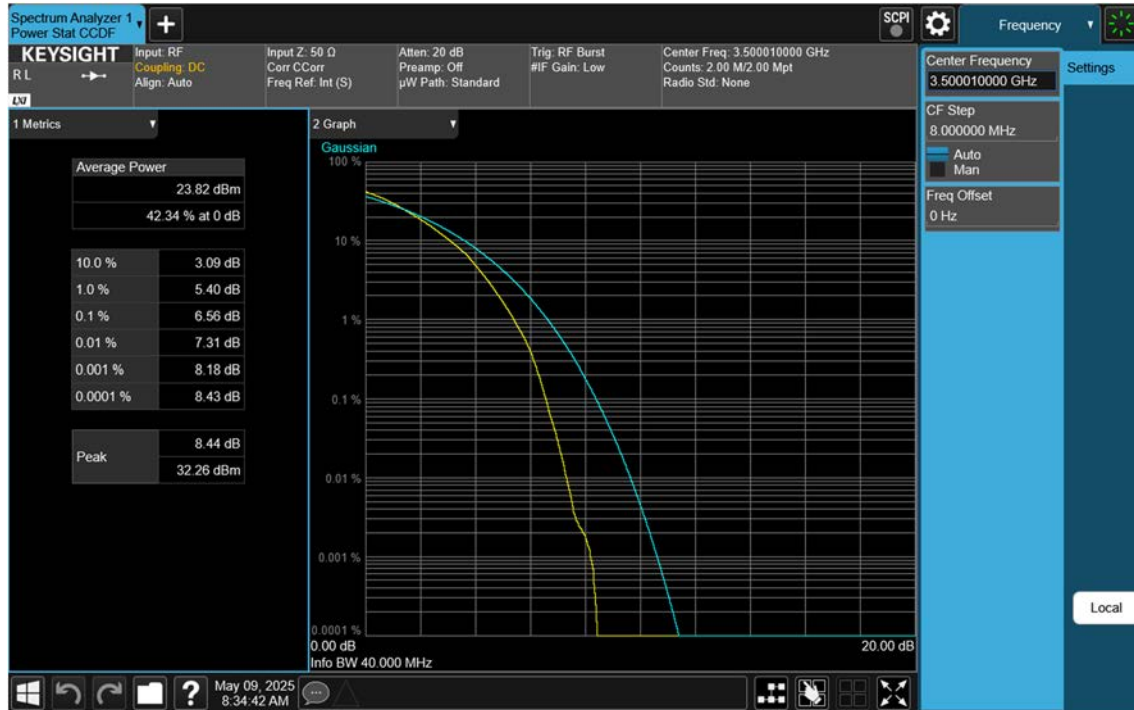
n77(3450~3550 MHz)_40 M_PAR_Mid_QPSK_FullRB



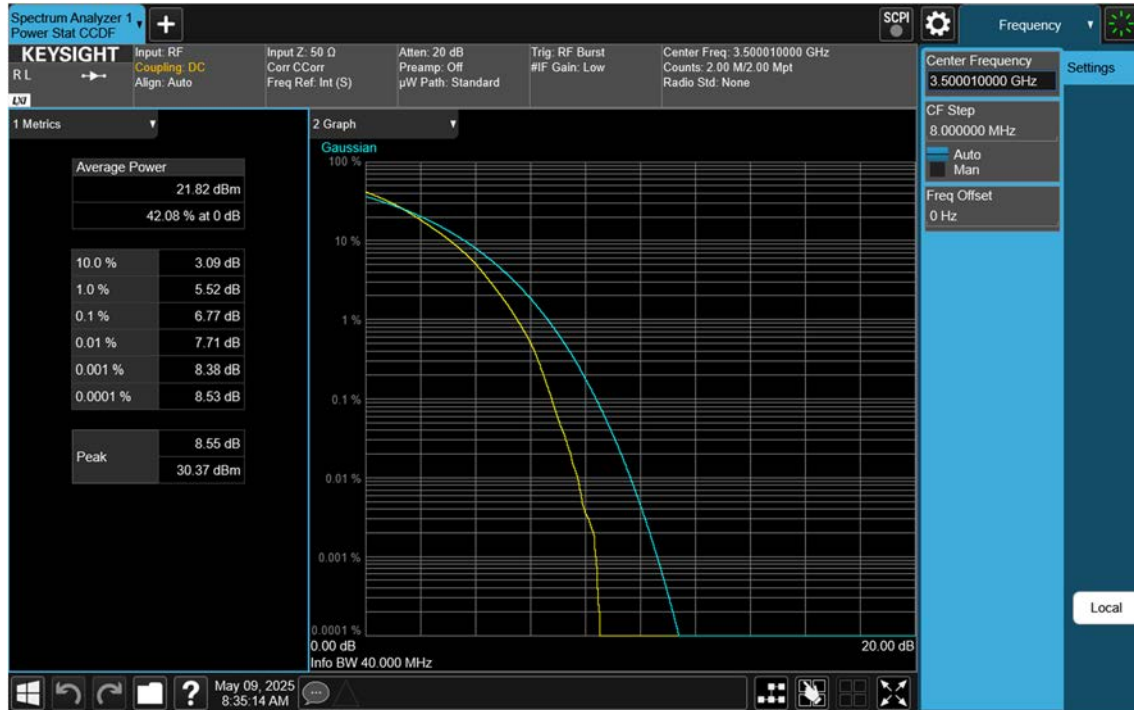
n77(3450~3550 MHz)_40 M_PAR_Mid_16QAM_FullRB



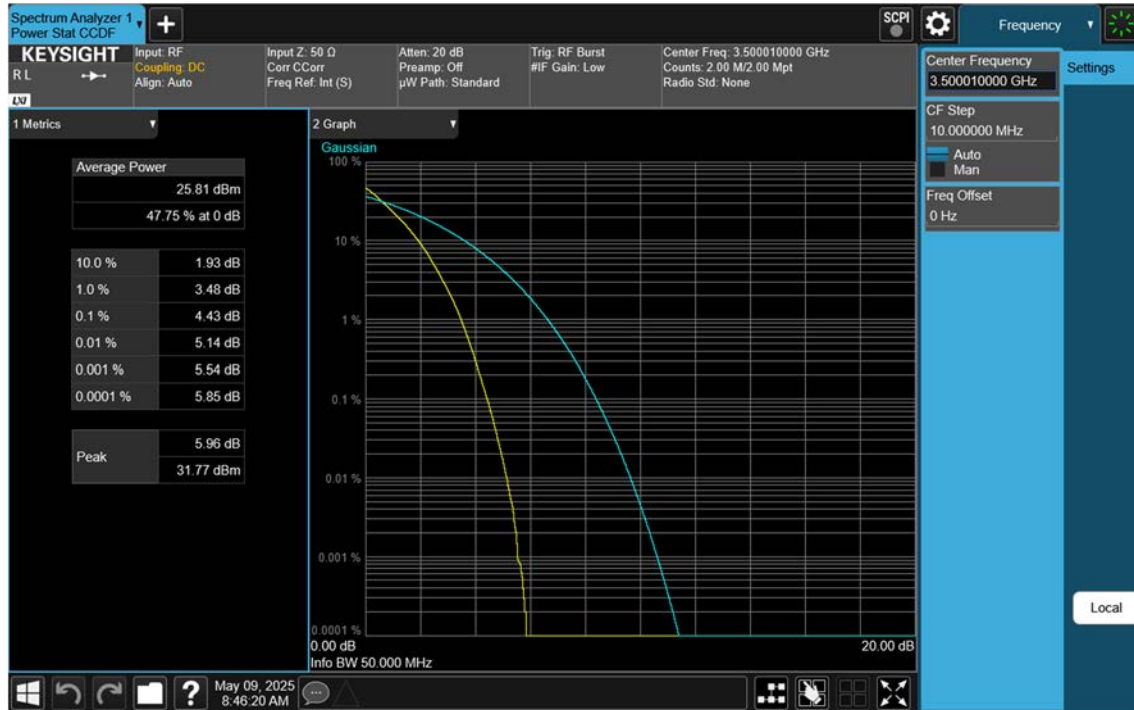
n77(3450~3550 MHz)_40 M_PAR_Mid_64QAM_FullRB



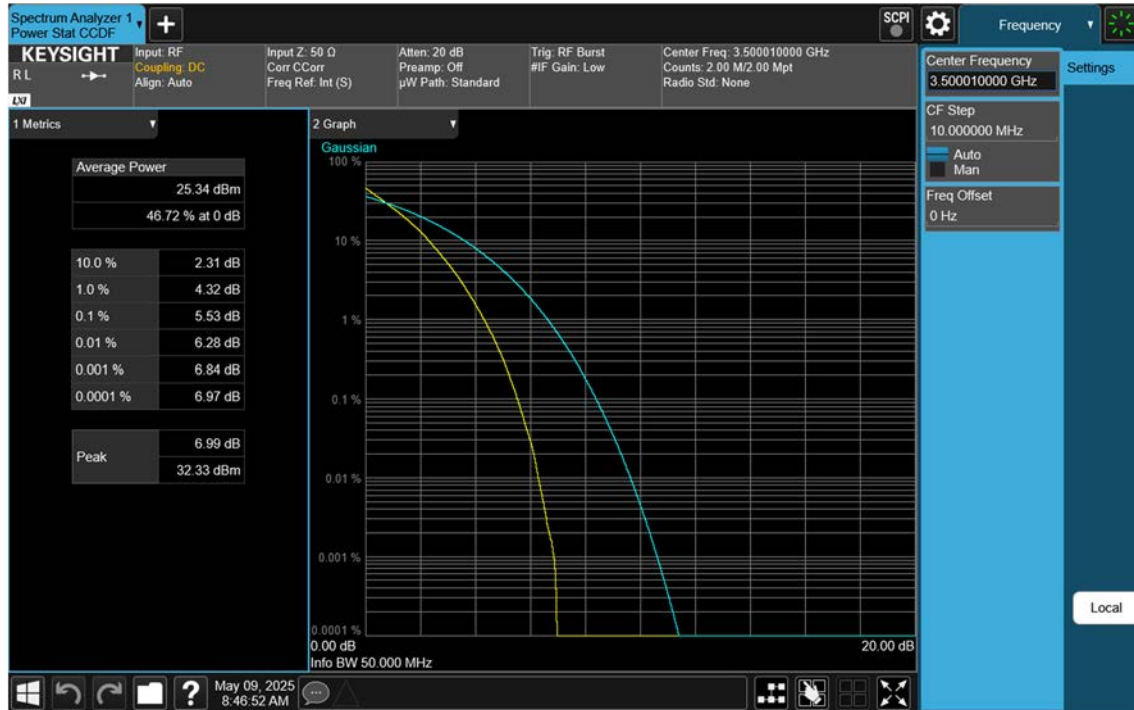
n77(3450~3550 MHz)_40 M_PAR_Mid_256QAM_FullRB



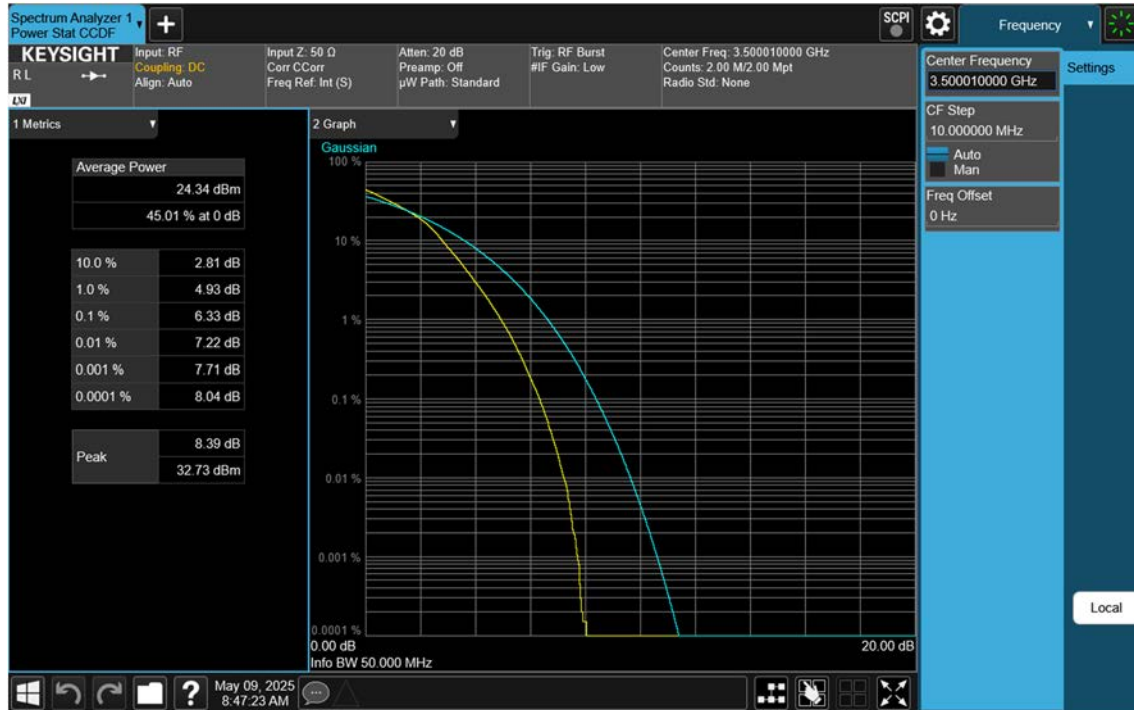
n77(3450~3550 MHz)_50 M_PAR_Mid_BPSK_FullRB



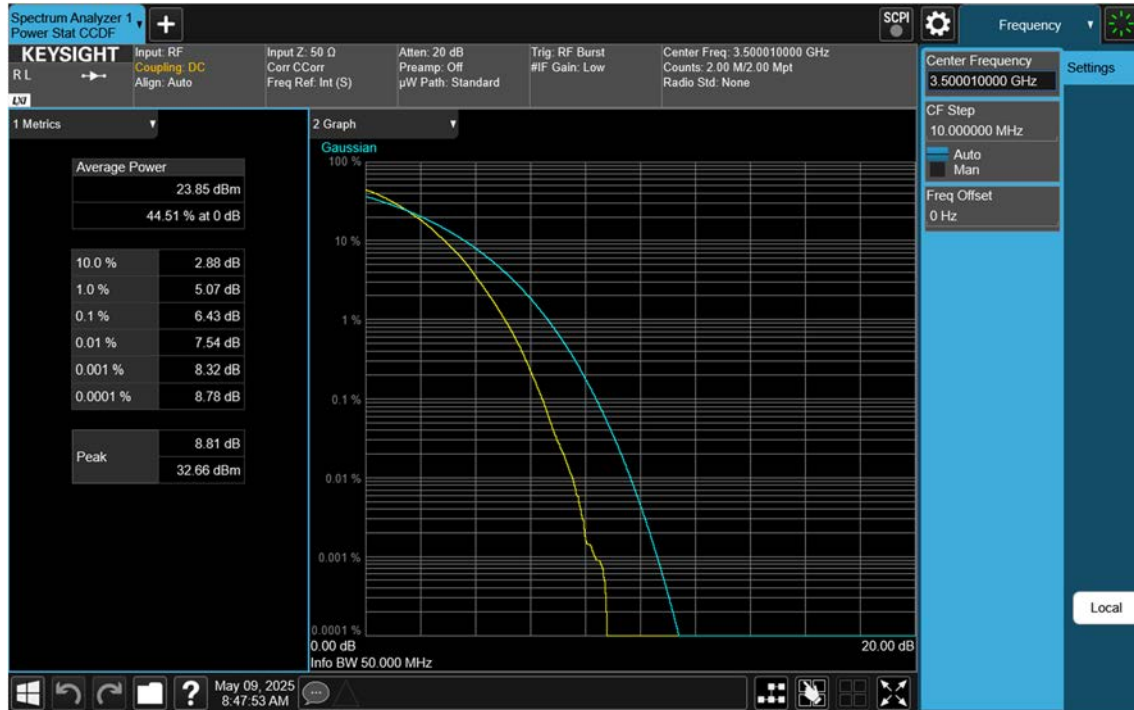
n77(3450~3550 MHz)_50 M_PAR_Mid_QPSK_FullRB



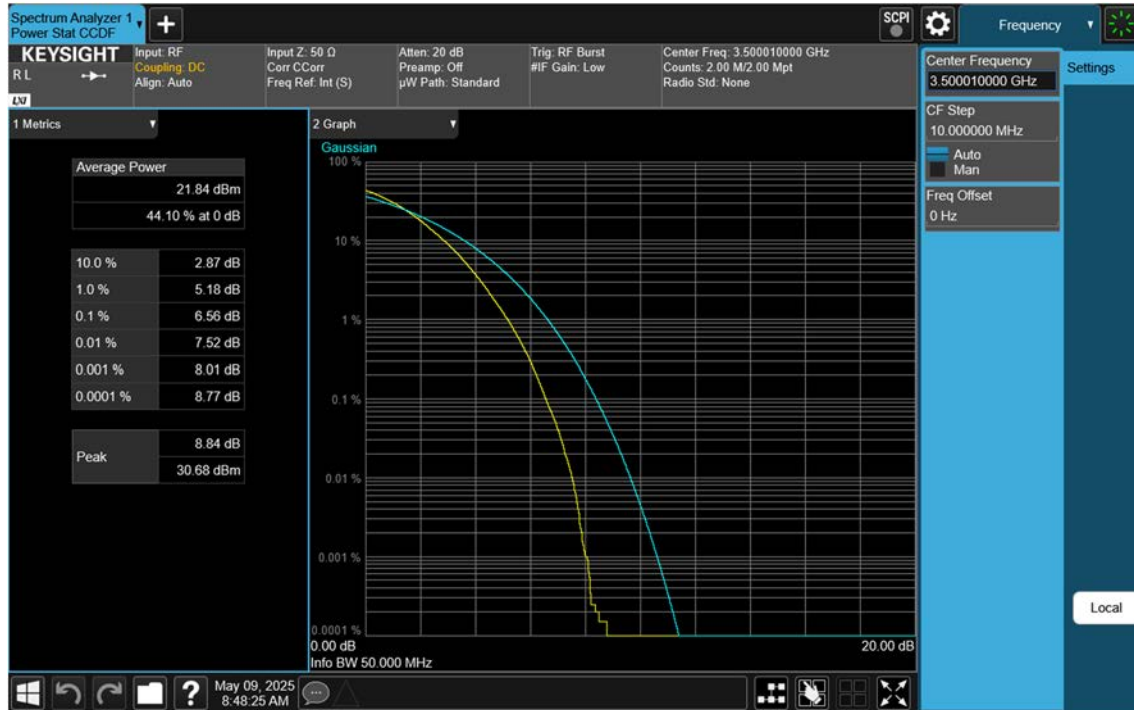
n77(3450~3550 MHz)_50 M_PAR_Mid_16QAM_FullRB



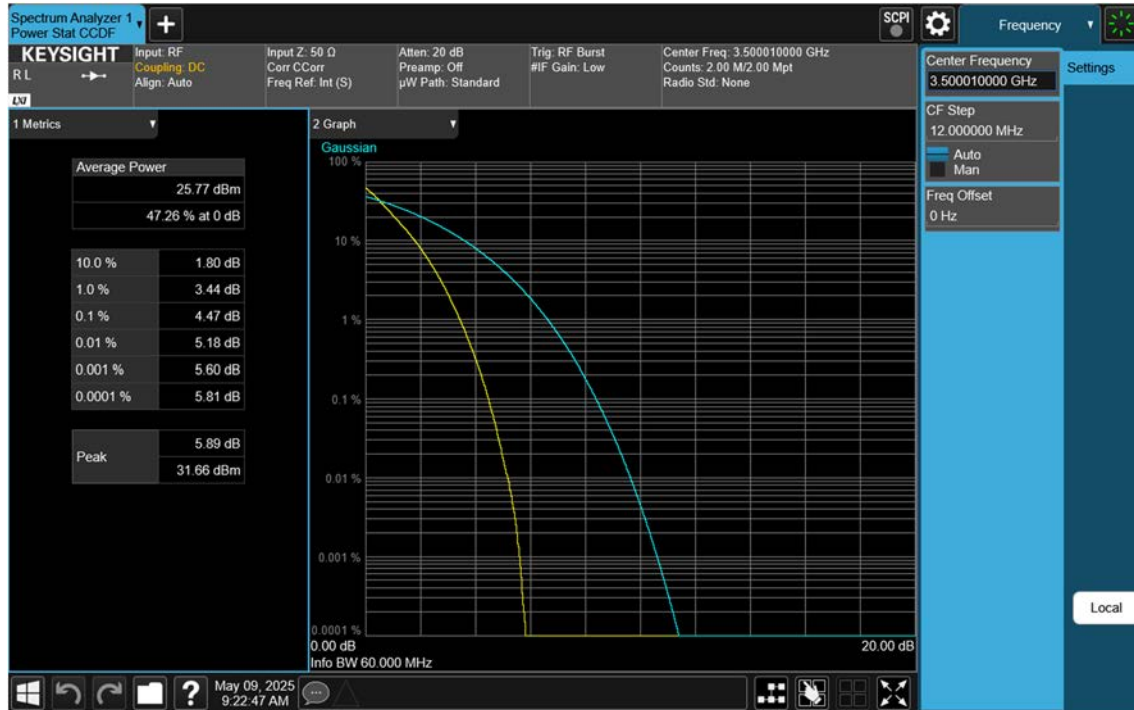
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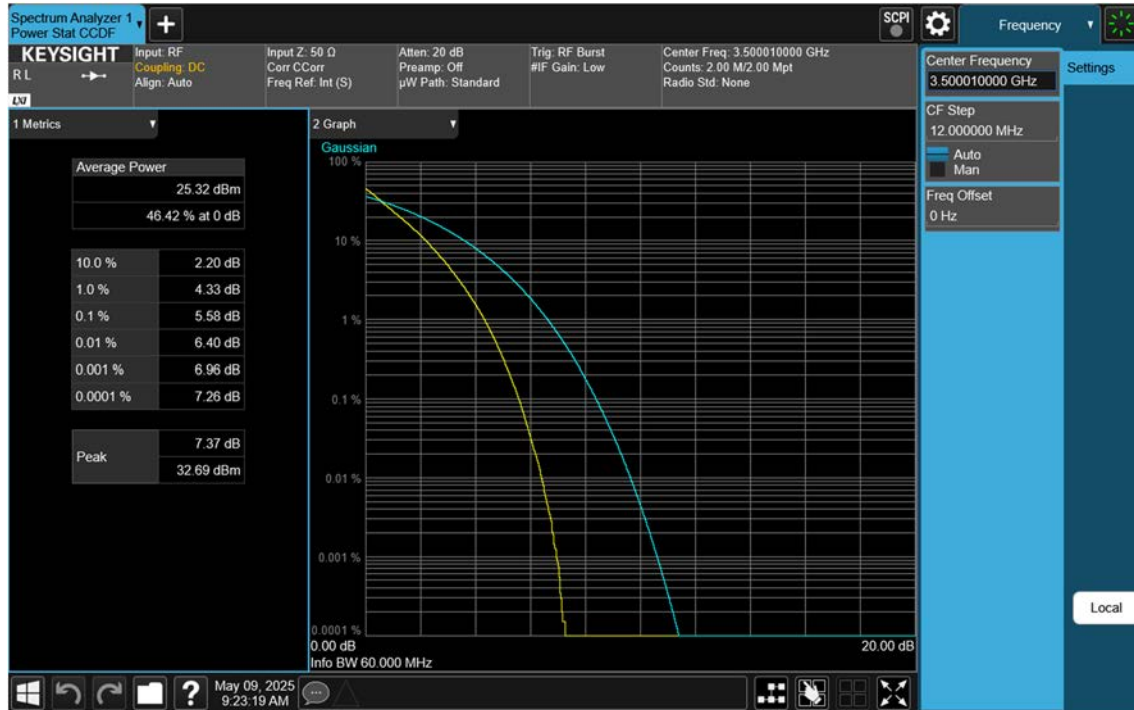
n77(3450~3550 MHz)_50 M_PAR_Mid_256QAM_FullRB



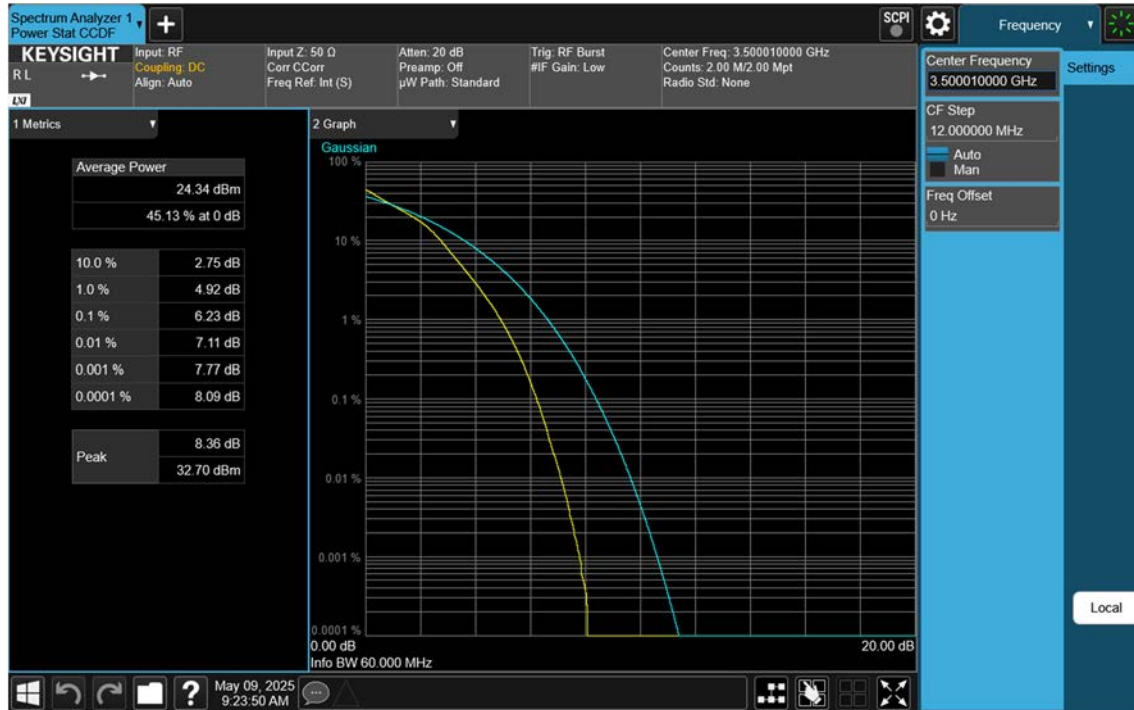
n77(3450~3550 MHz)_60 M_PAR_Mid_BPSK_FullRB



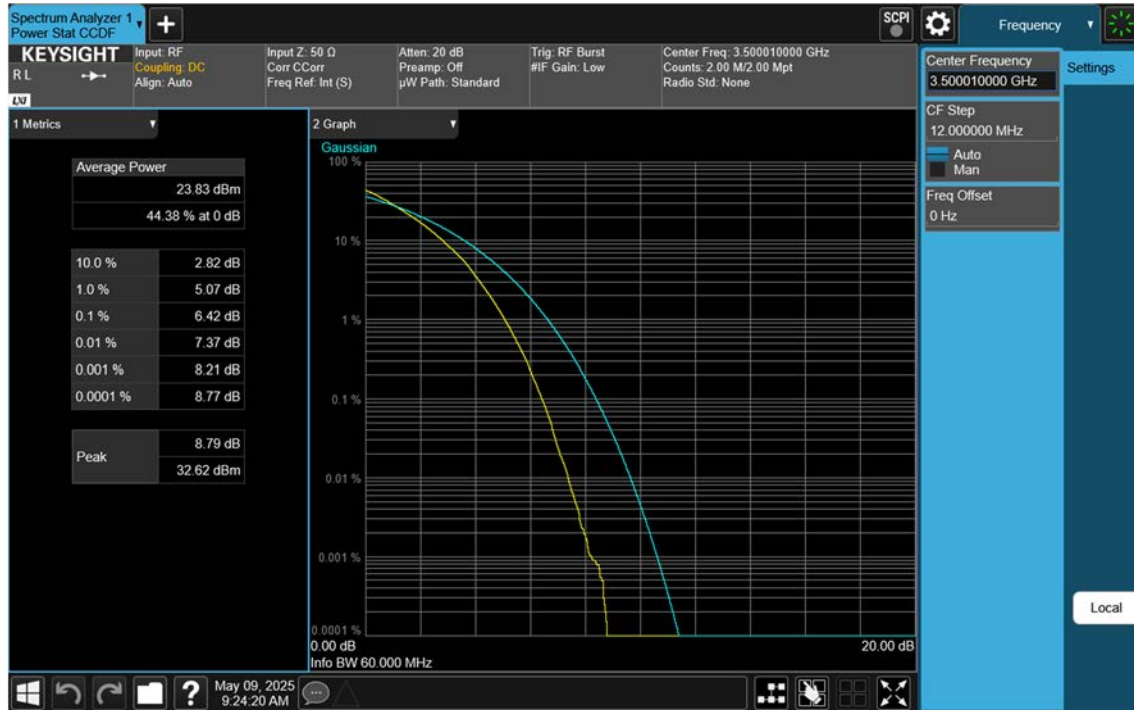
n77(3450~3550 MHz)_60 M_PAR_Mid_QPSK_FullRB



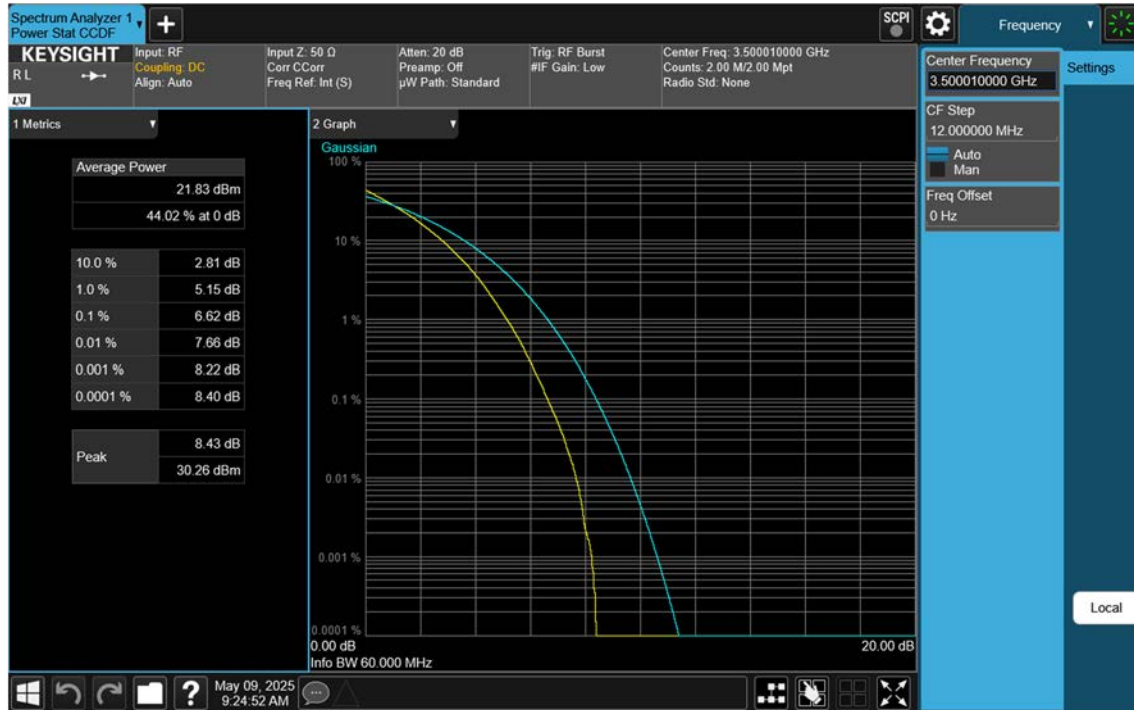
n77(3450~3550 MHz)_60 M_PAR_Mid_16QAM_FullRB



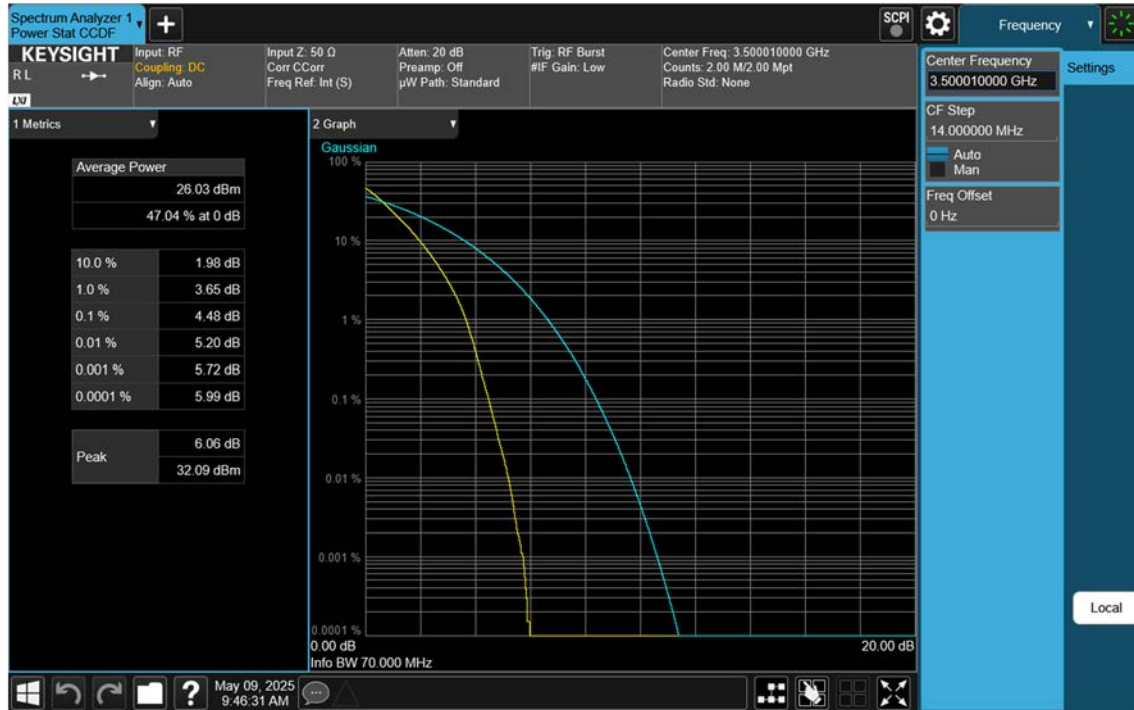
n77(3450~3550 MHz)_60 M_PAR_Mid_64QAM_FullRB



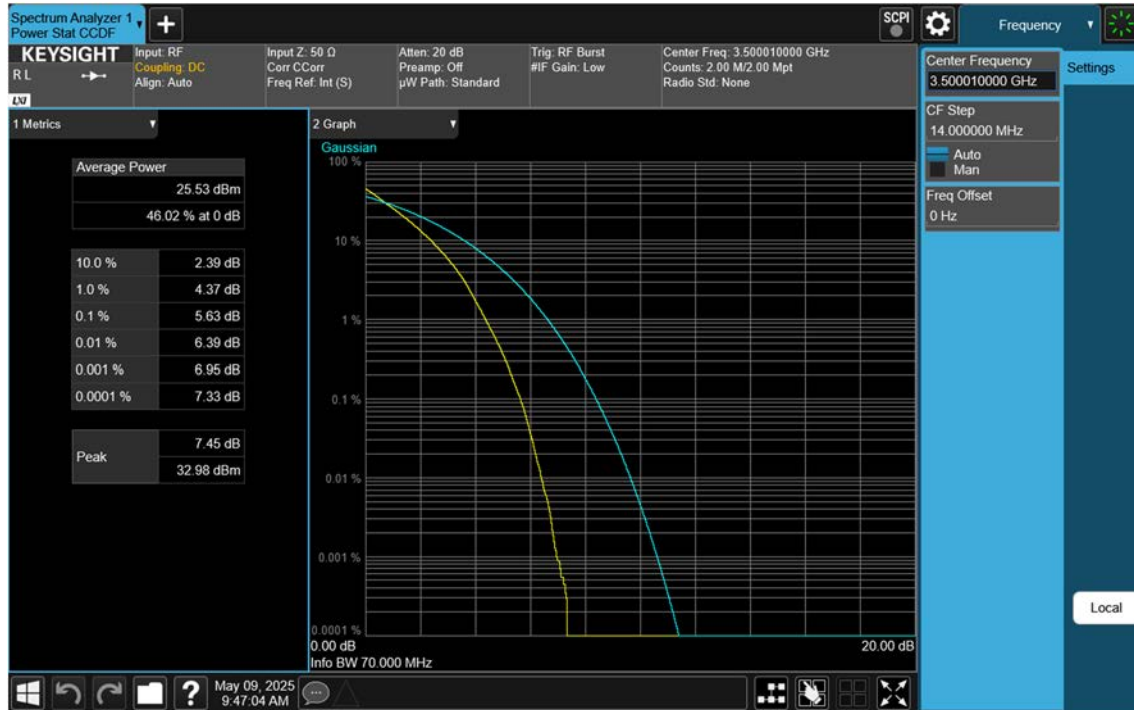
n77(3450~3550 MHz)_60 M_PAR_Mid_256QAM_FullRB



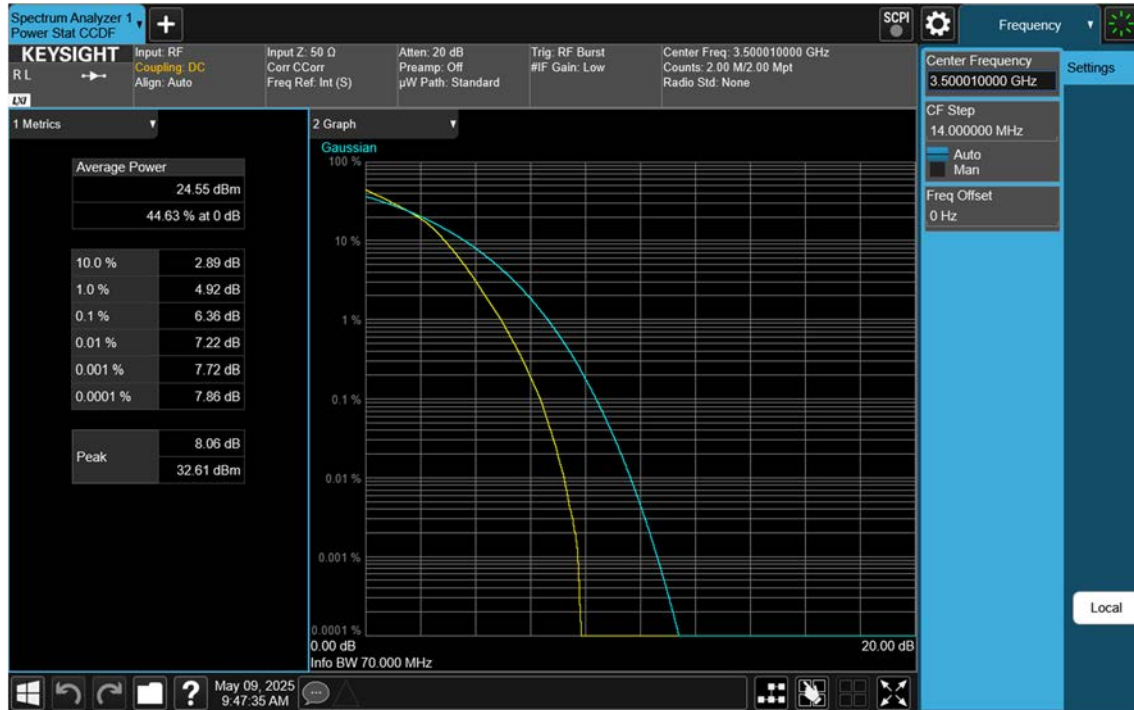
n77(3450~3550 MHz)_70 M_PAR_Mid_BPSK_FullRB



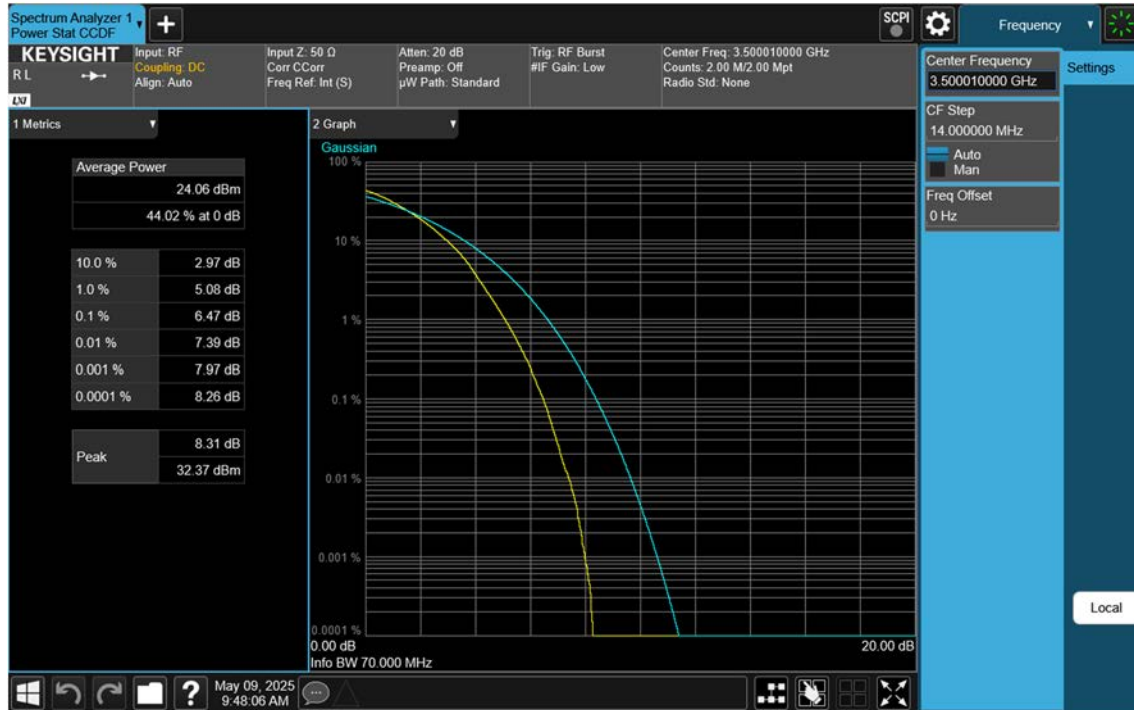
n77(3450~3550 MHz)_70 M_PAR_Mid_QPSK_FullRB



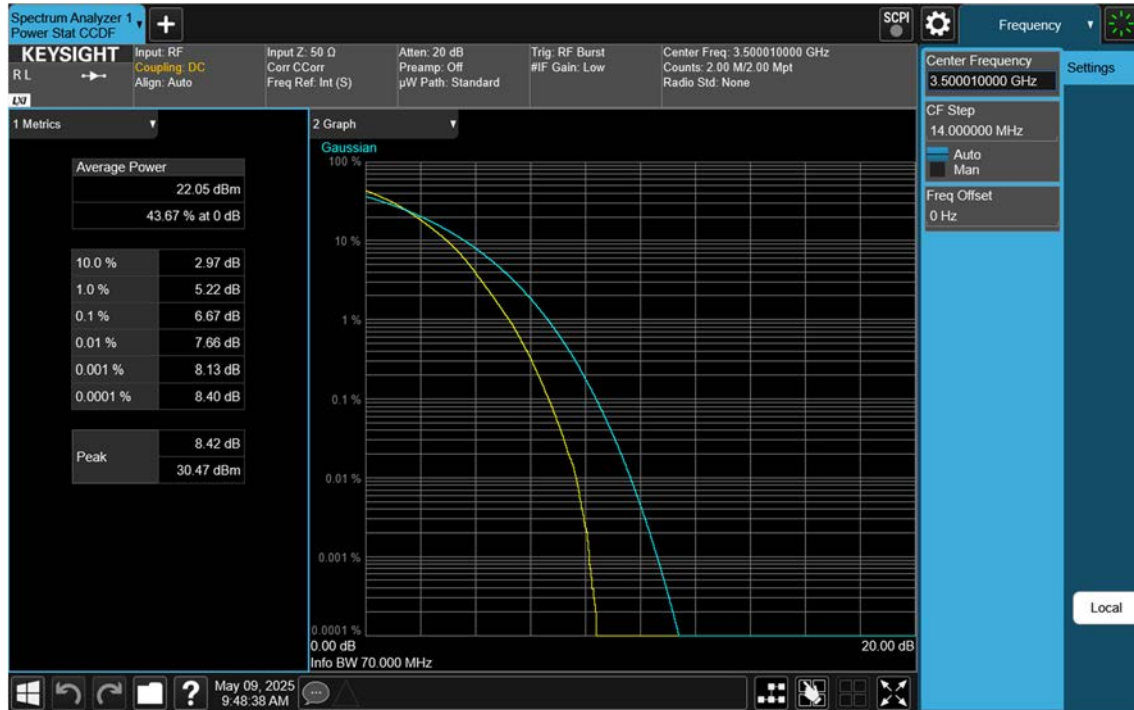
n77(3450~3550 MHz)_70 M_PAR_Mid_16QAM_FullRB



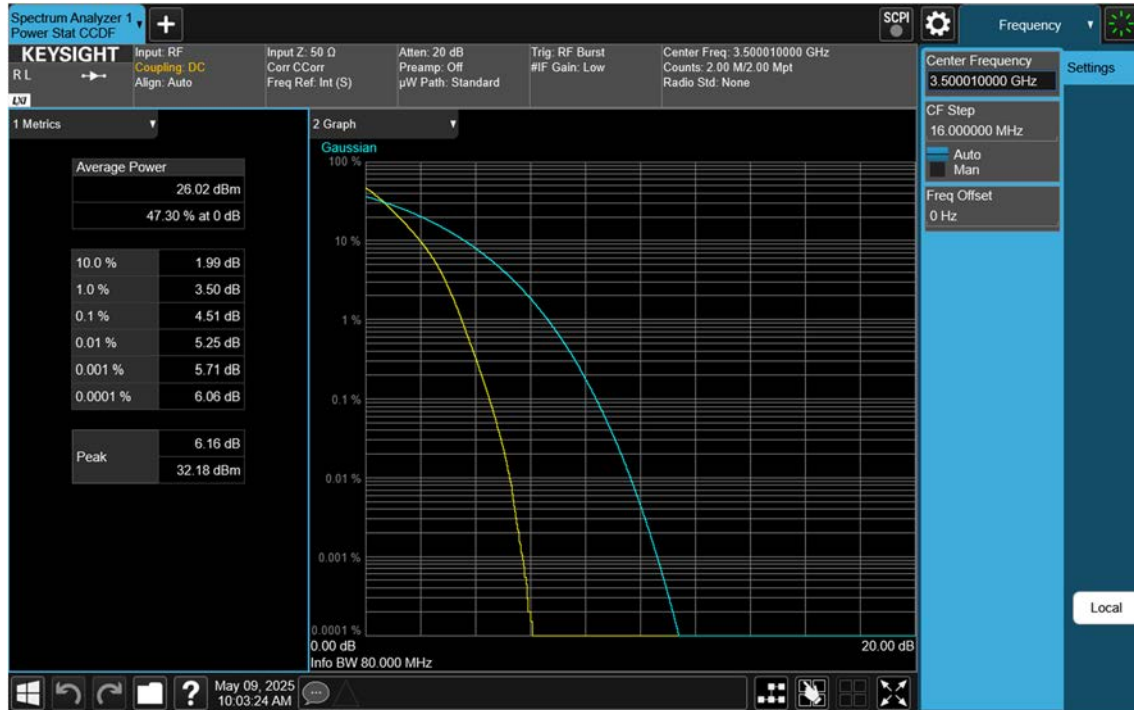
n77(3450~3550 MHz)_70 M_PAR_Mid_64QAM_FullRB



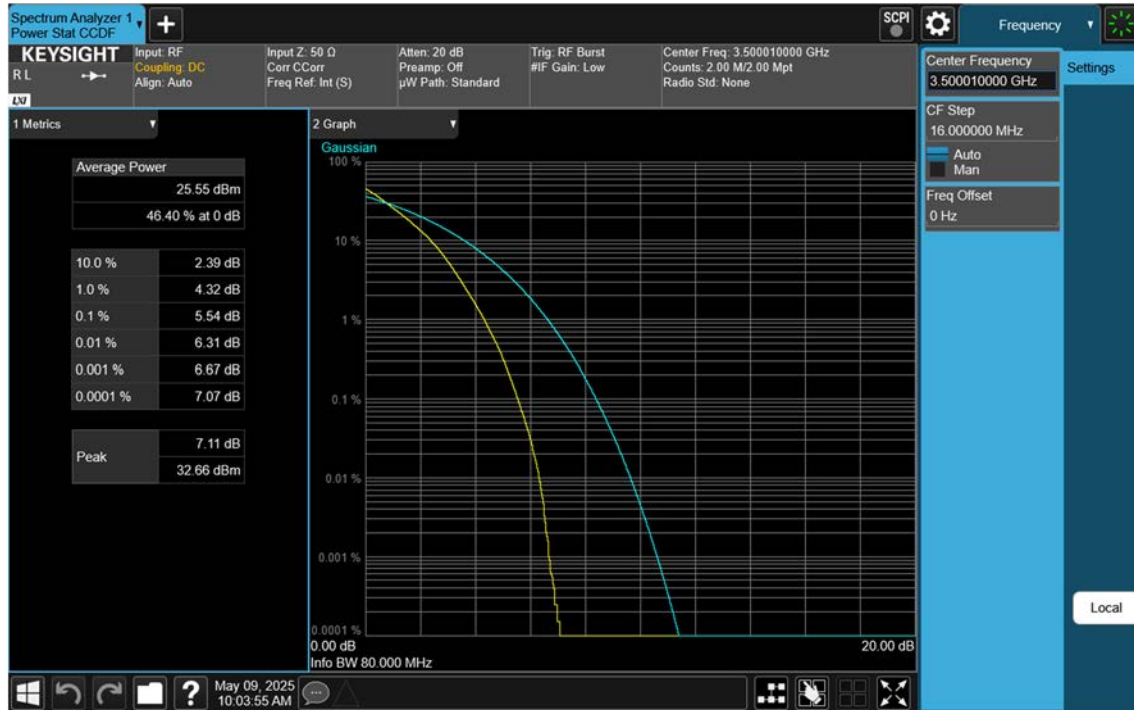
n77(3450~3550 MHz)_70 M_PAR_Mid_256QAM_FullRB



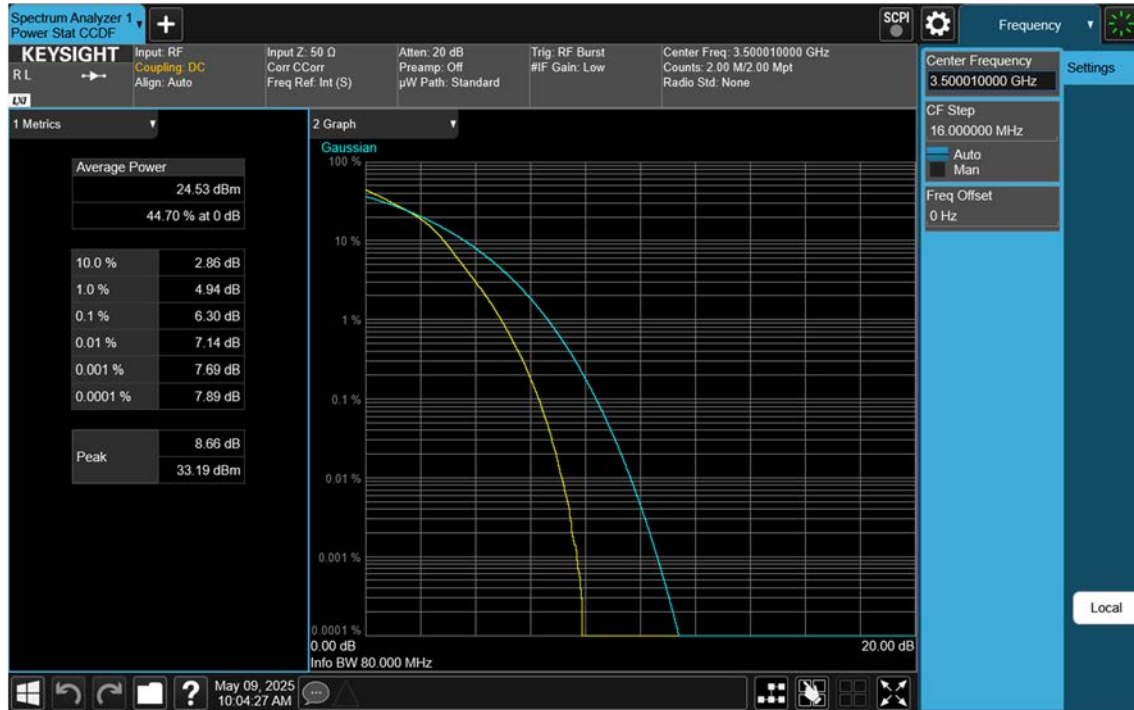
n77(3450~3550 MHz)_80 M_PAR_Mid_BPSK_FullRB



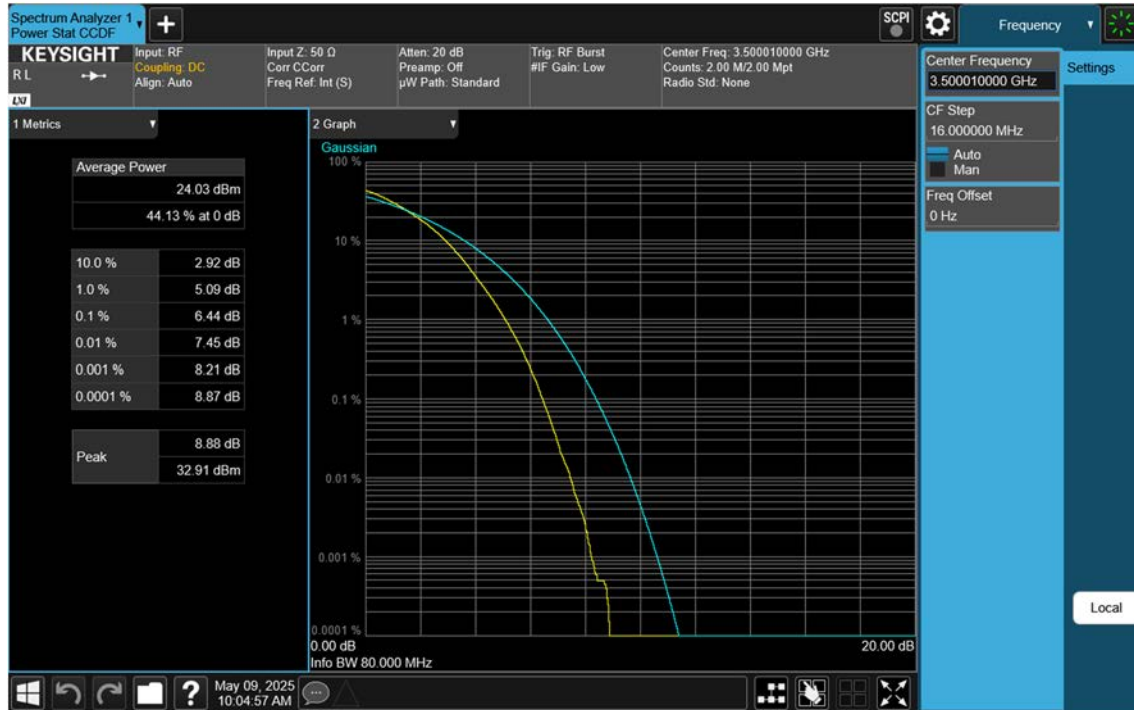
n77(3450~3550 MHz)_80 M_PAR_Mid_QPSK_FullRB



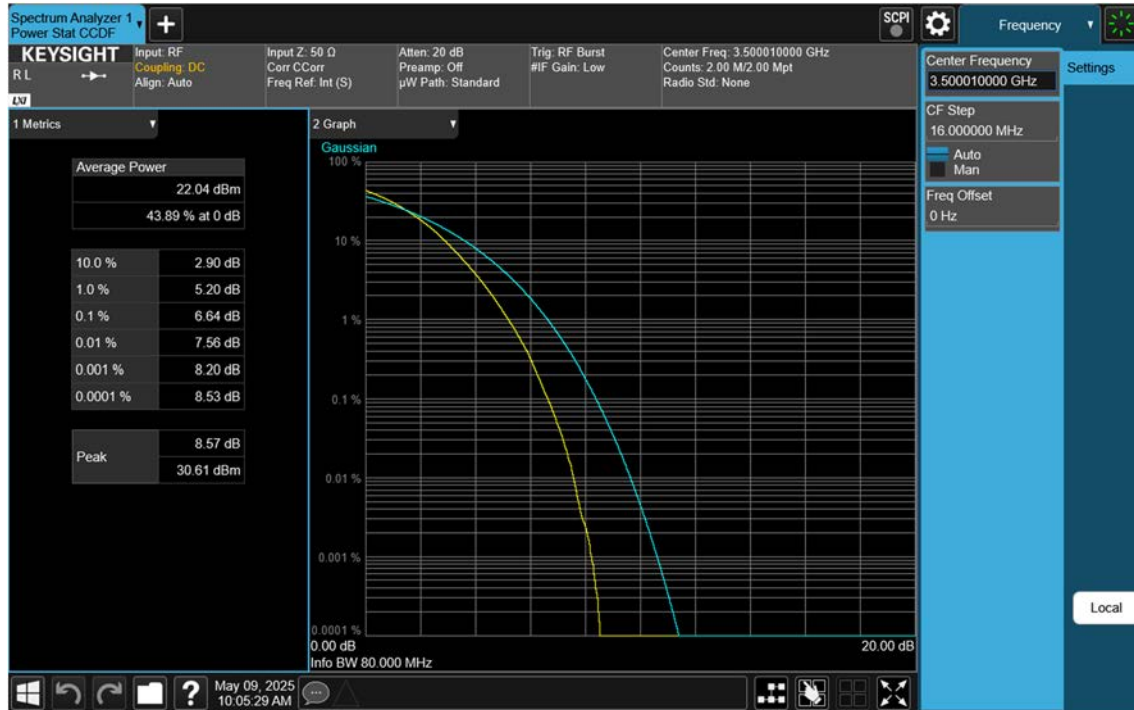
n77(3450~3550 MHz)_80 M_PAR_Mid_16QAM_FullRB



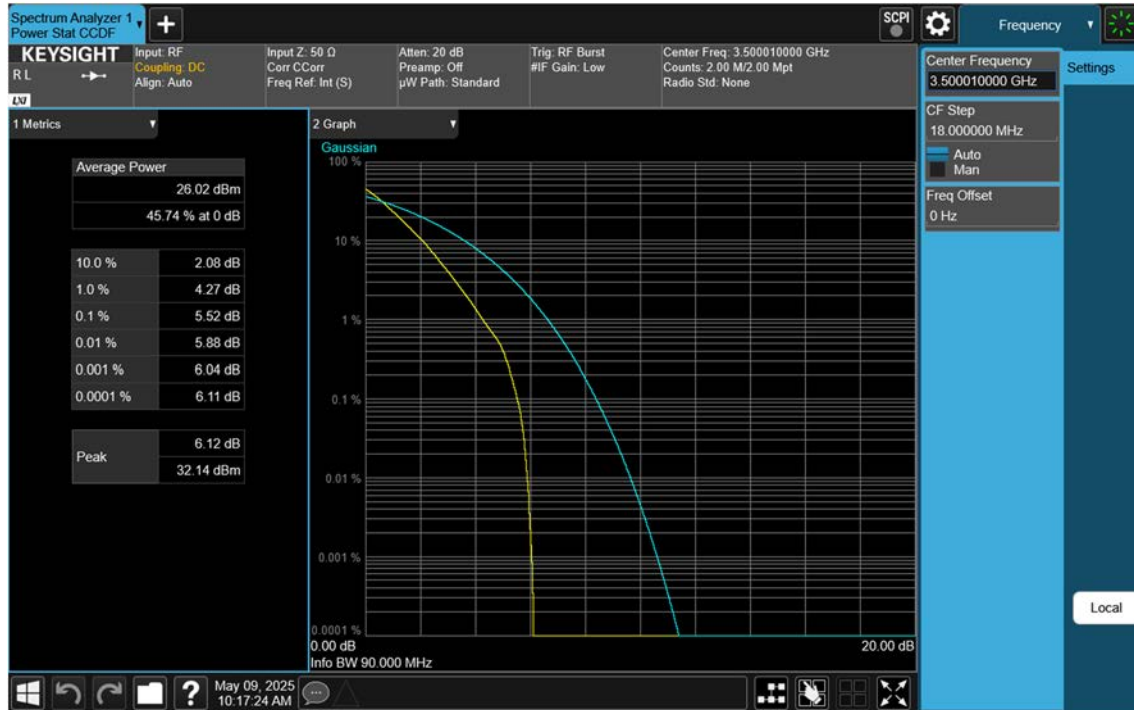
n77(3450~3550 MHz)_80 M_PAR_Mid_64QAM_FullRB



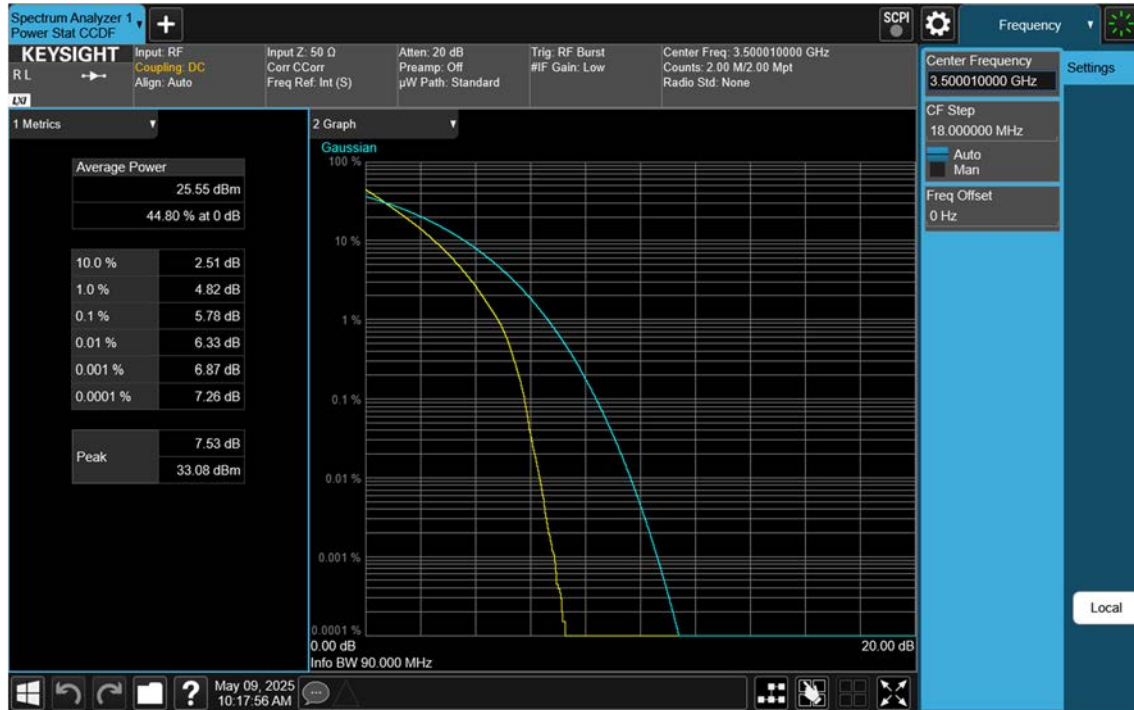
n77(3450~3550 MHz)_80 M_PAR_Mid_256QAM_FullRB



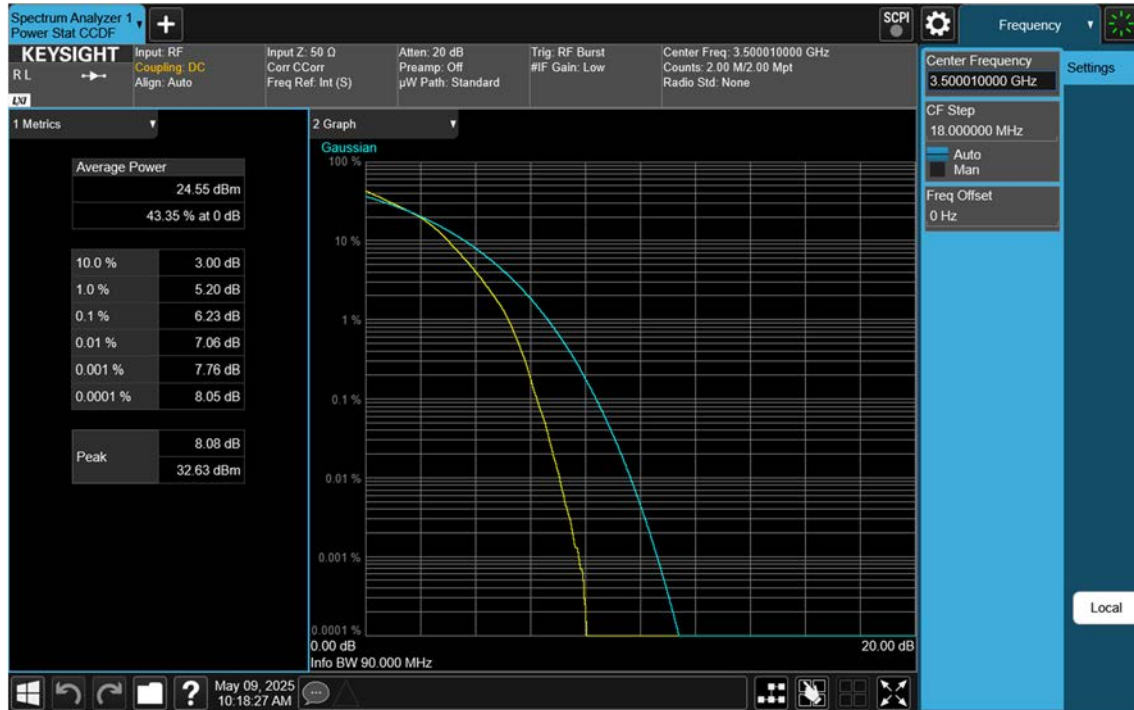
n77(3450~3550 MHz)_90 M_PAR_Mid_BPSK_FullRB



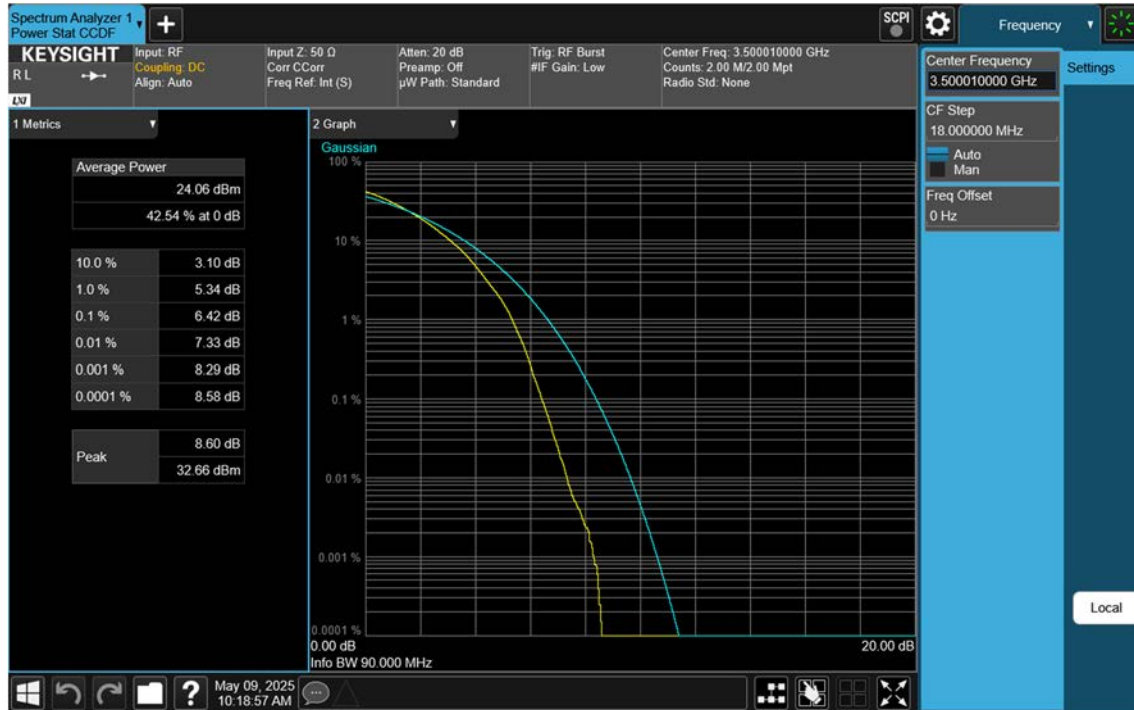
n77(3450~3550 MHz)_90 M_PAR_Mid_QPSK_FullRB



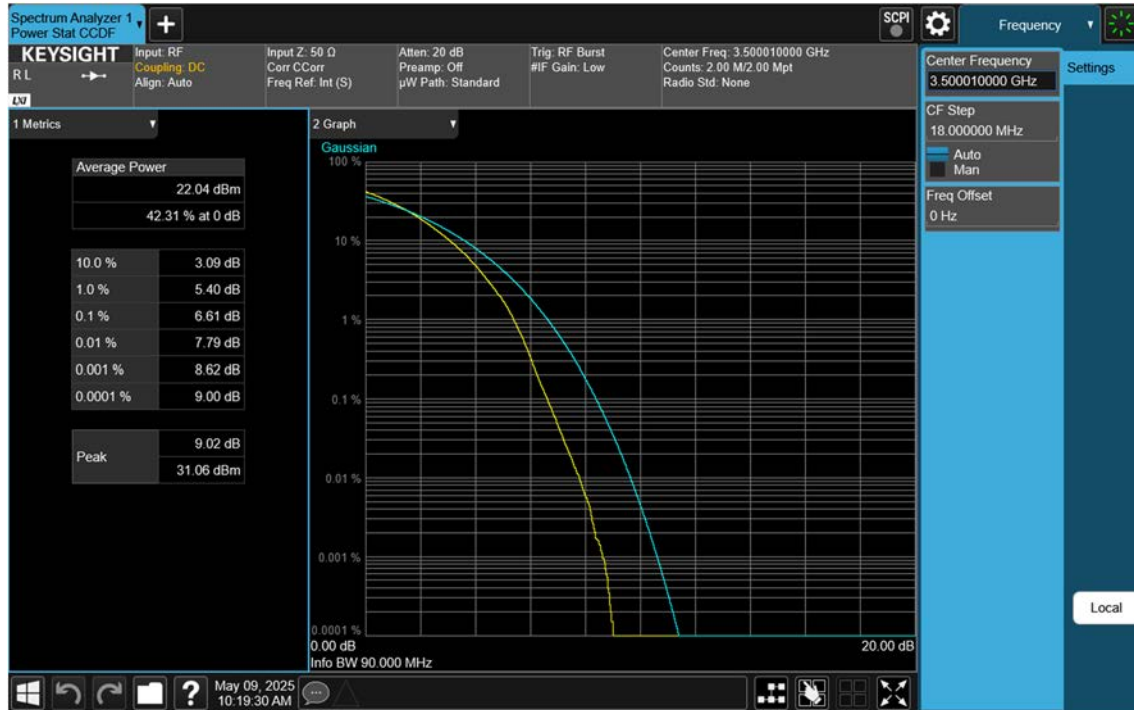
n77(3450~3550 MHz)_90 M_PAR_Mid_16QAM_FullRB



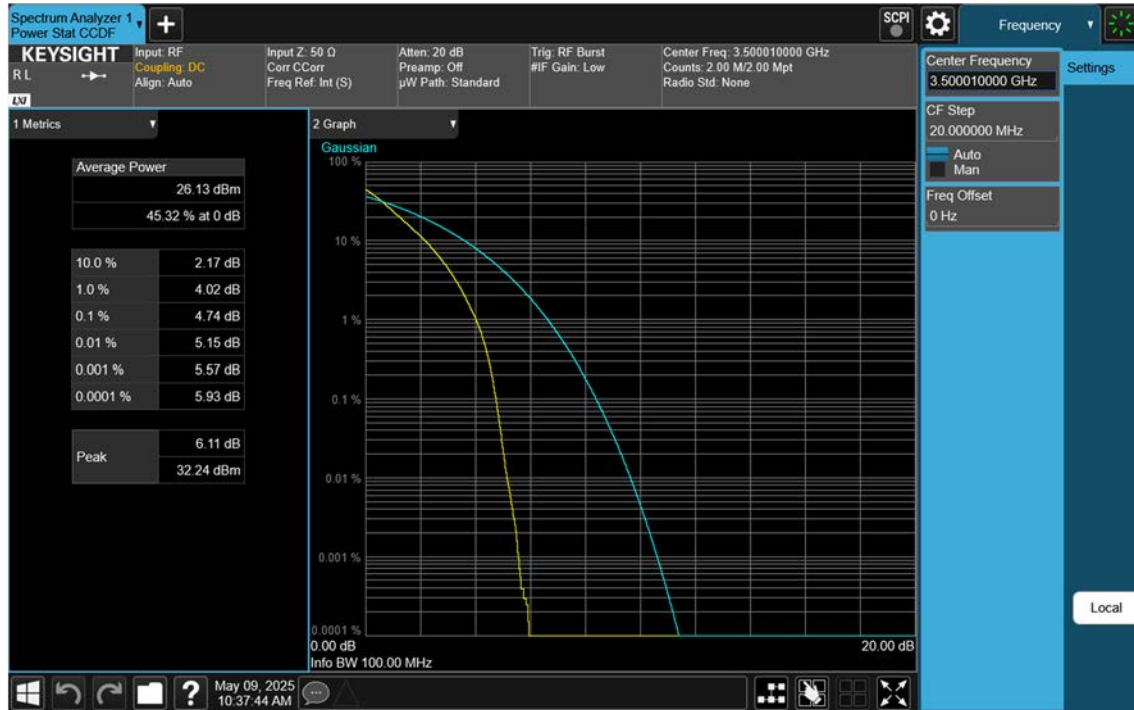
n77(3450~3550 MHz)_90 M_PAR_Mid_64QAM_FullRB



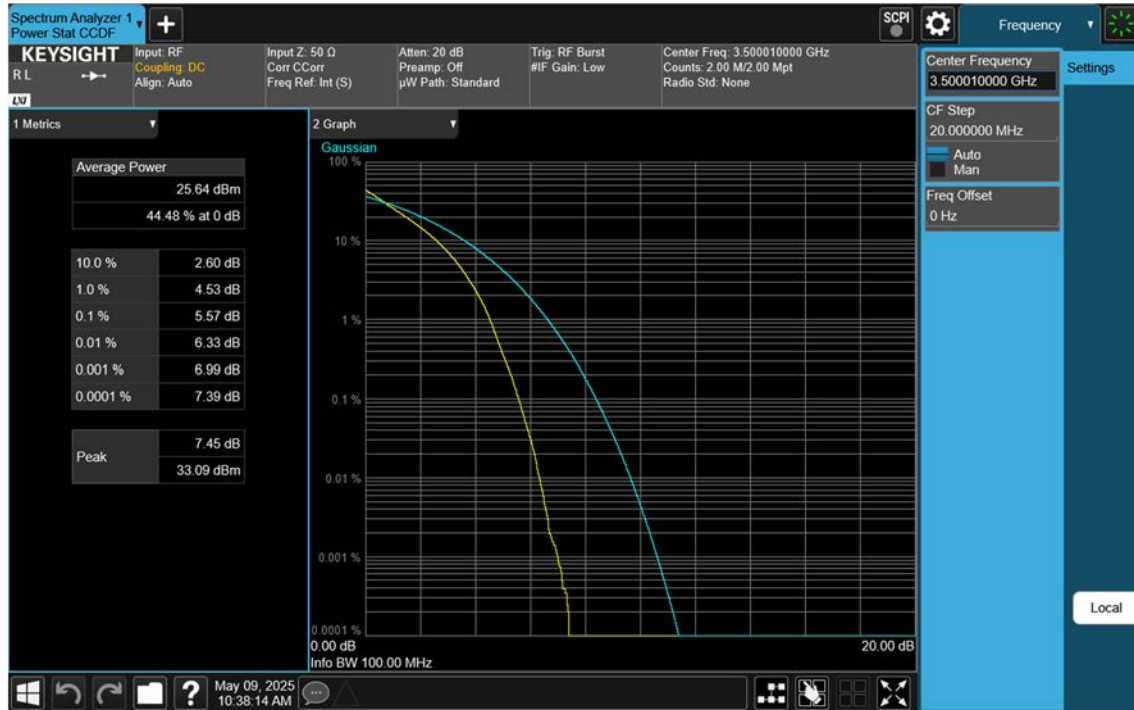
n77(3450~3550 MHz)_90 M_PAR_Mid_256QAM_FullRB



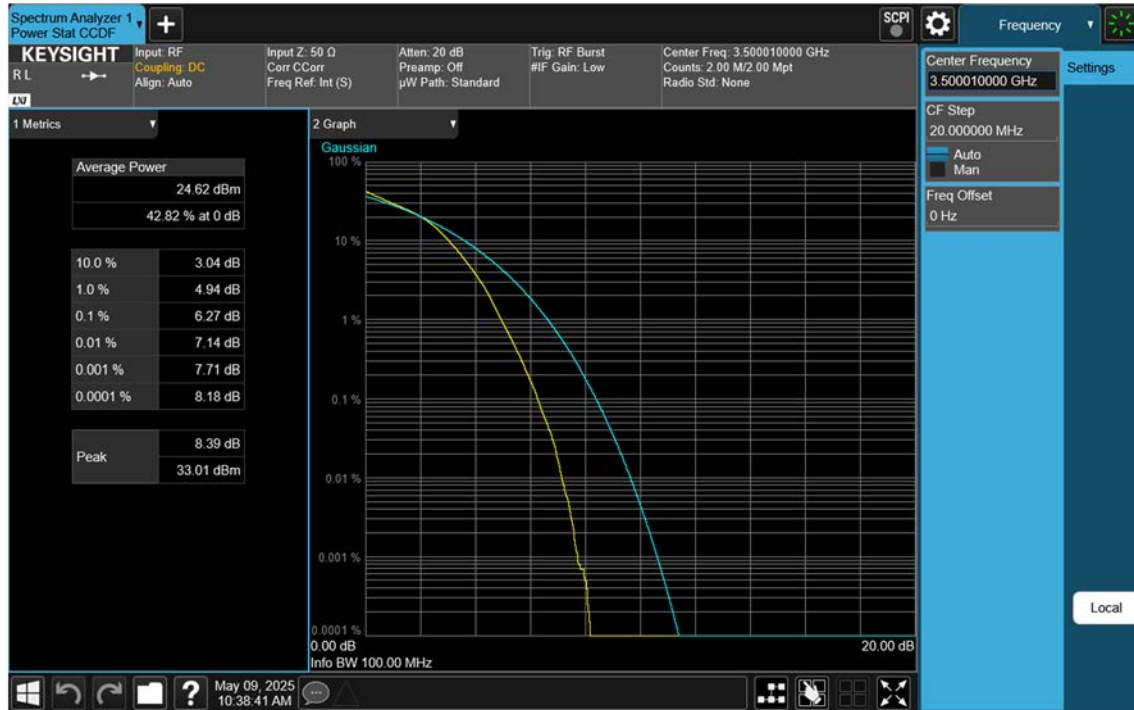
n77(3450~3550 MHz)_100 M_PAR_Mid_BPSK_FullRB



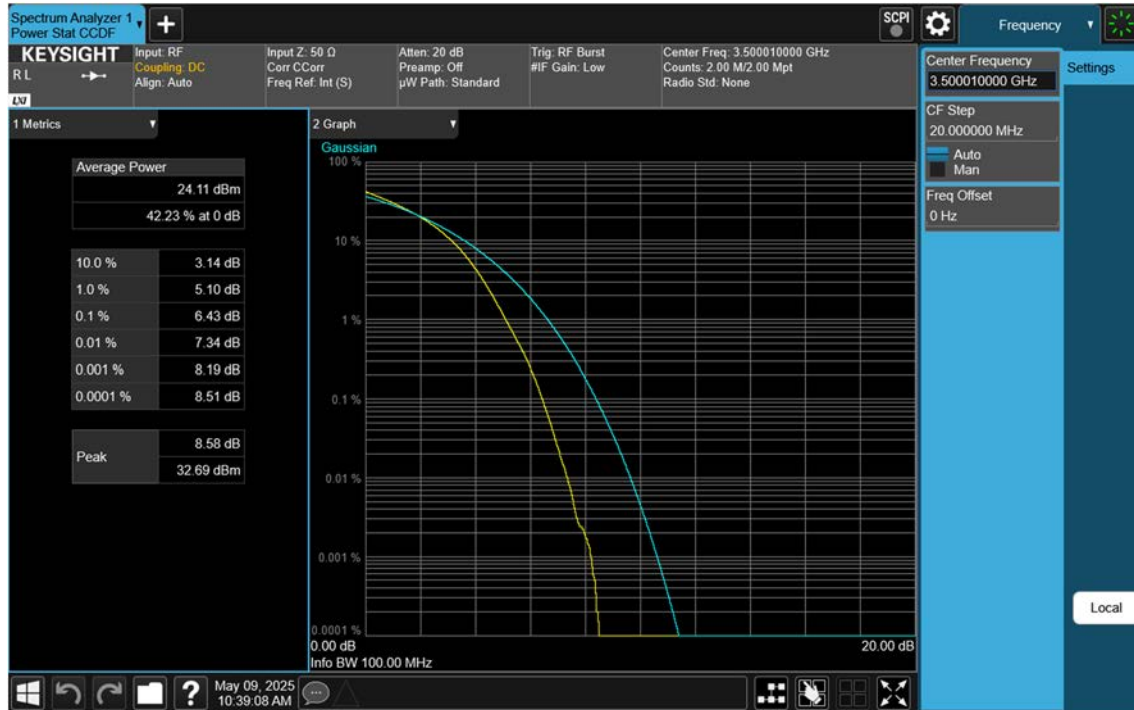
n77(3450~3550 MHz)_100 M_PAR_Mid_QPSK_FullRB



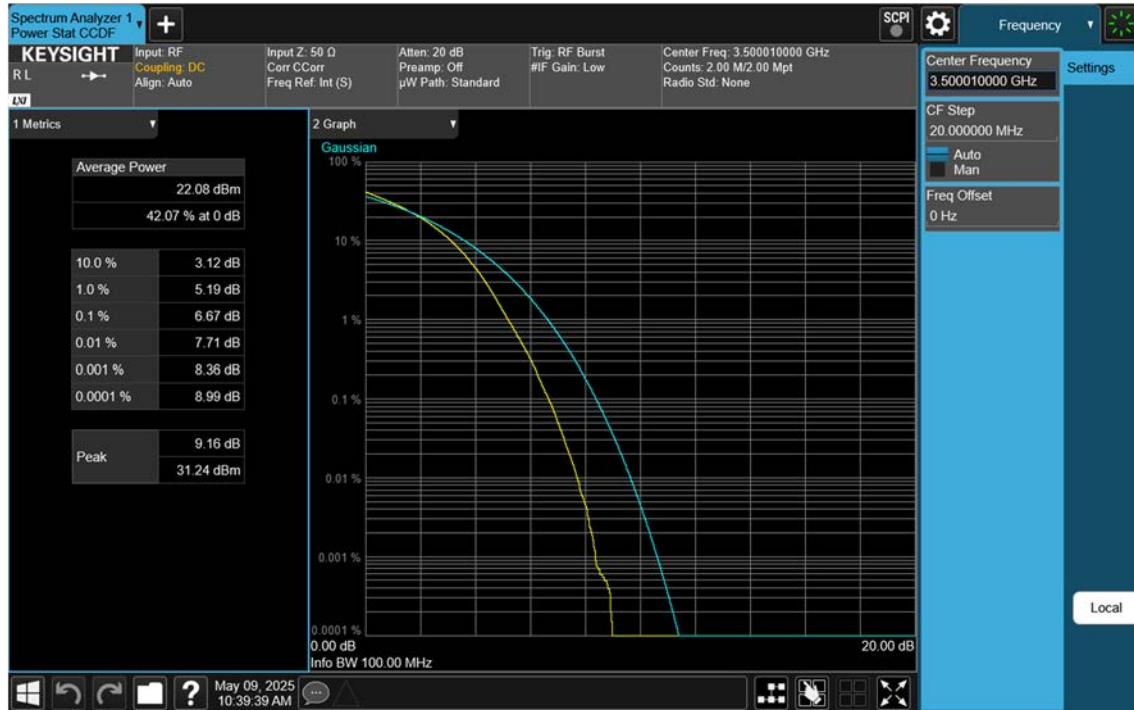
n77(3450~3550 MHz)_100 M_PAR_Mid_16QAM_FullRB



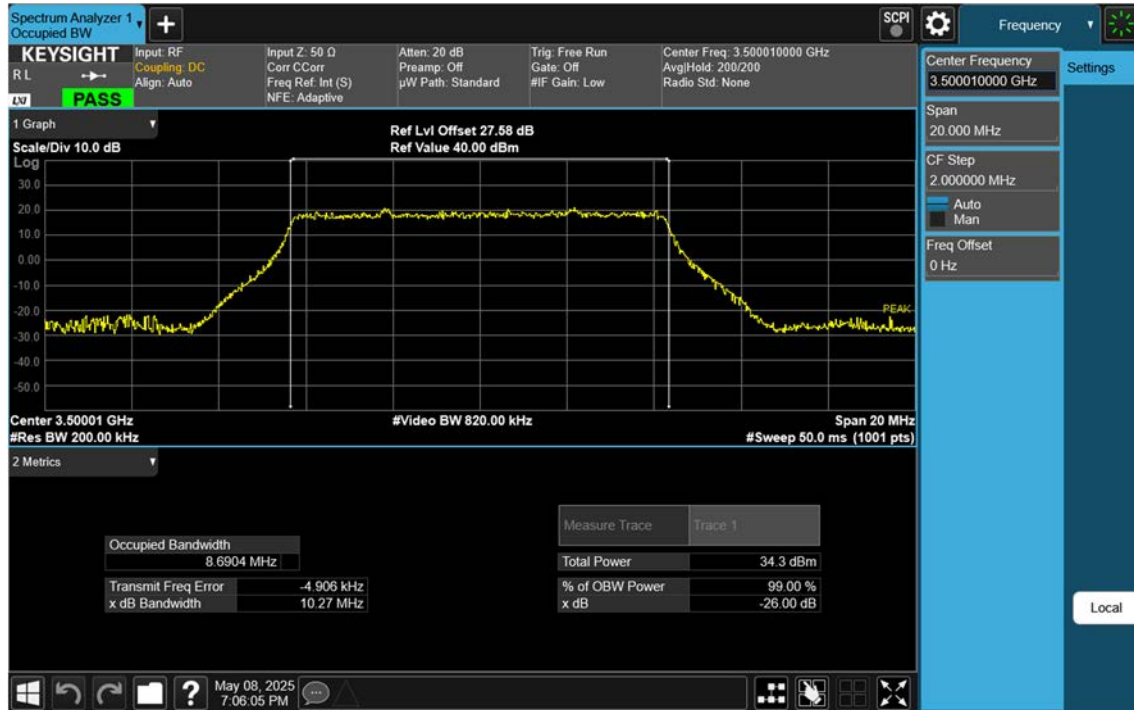
n77(3450~3550 MHz)_100 M_PAR_Mid_64QAM_FullRB



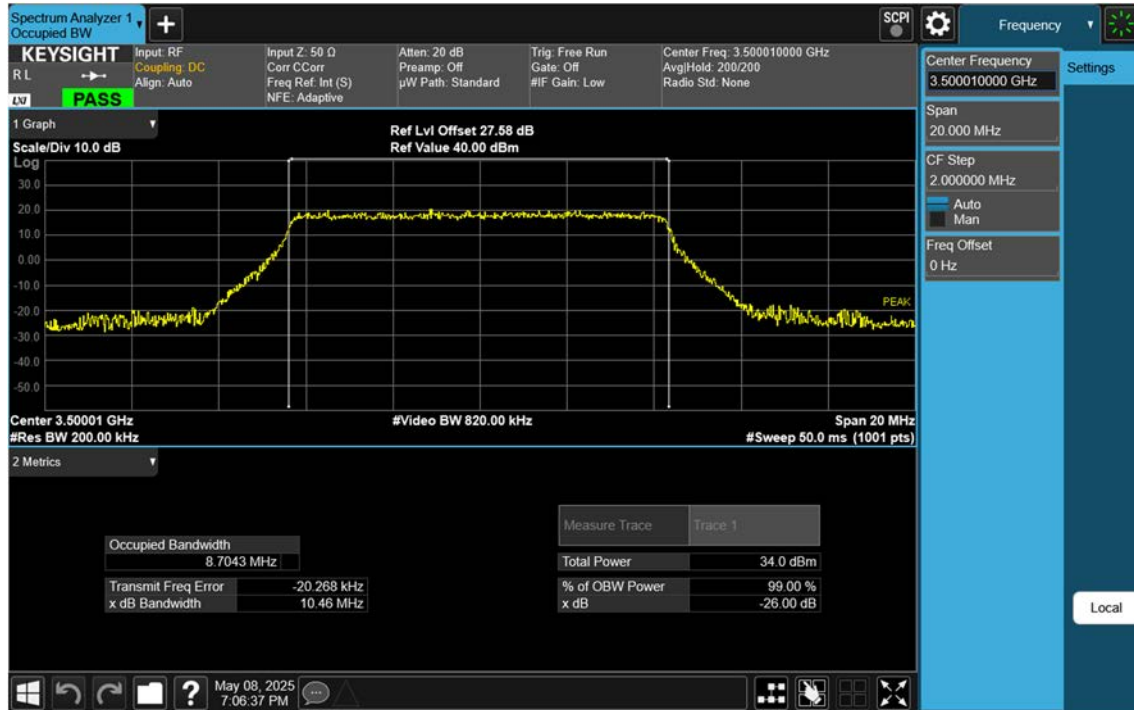
n77(3450~3550 MHz)_100 M_PAR_Mid_256QAM_FullRB



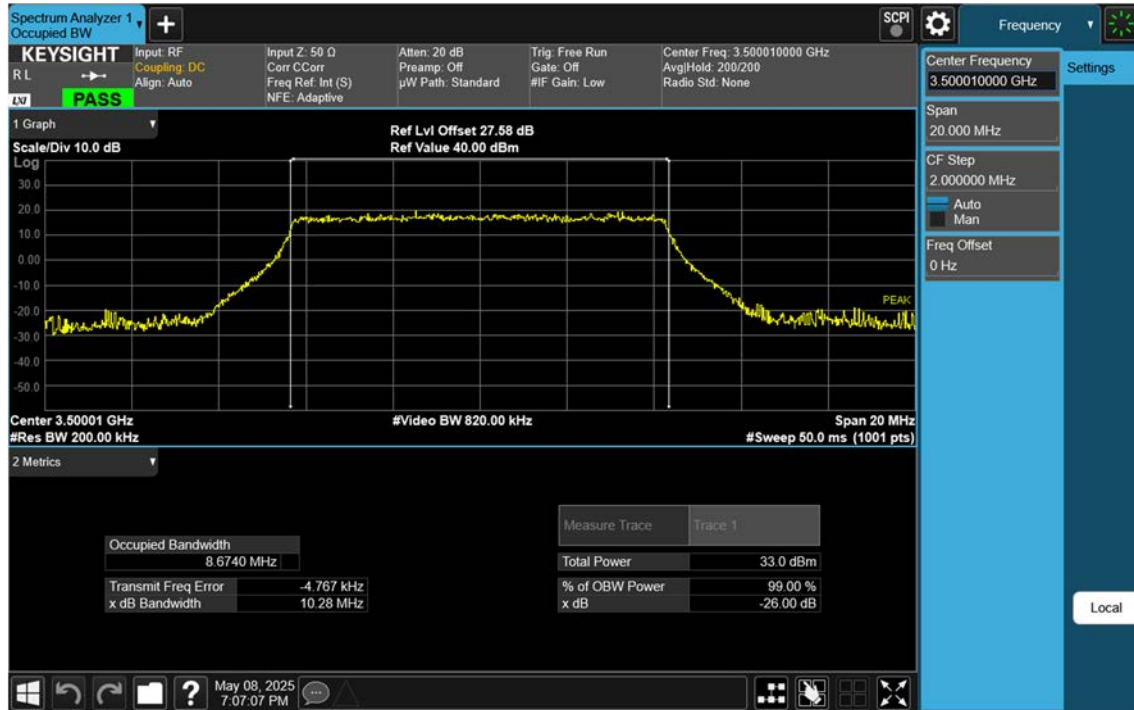
n77(3450~3550 MHz)_10 M_OBW_Mid_BPSK_FullRB



n77(3450~3550 MHz)_10 M_OBW_Mid_QPSK_FullRB



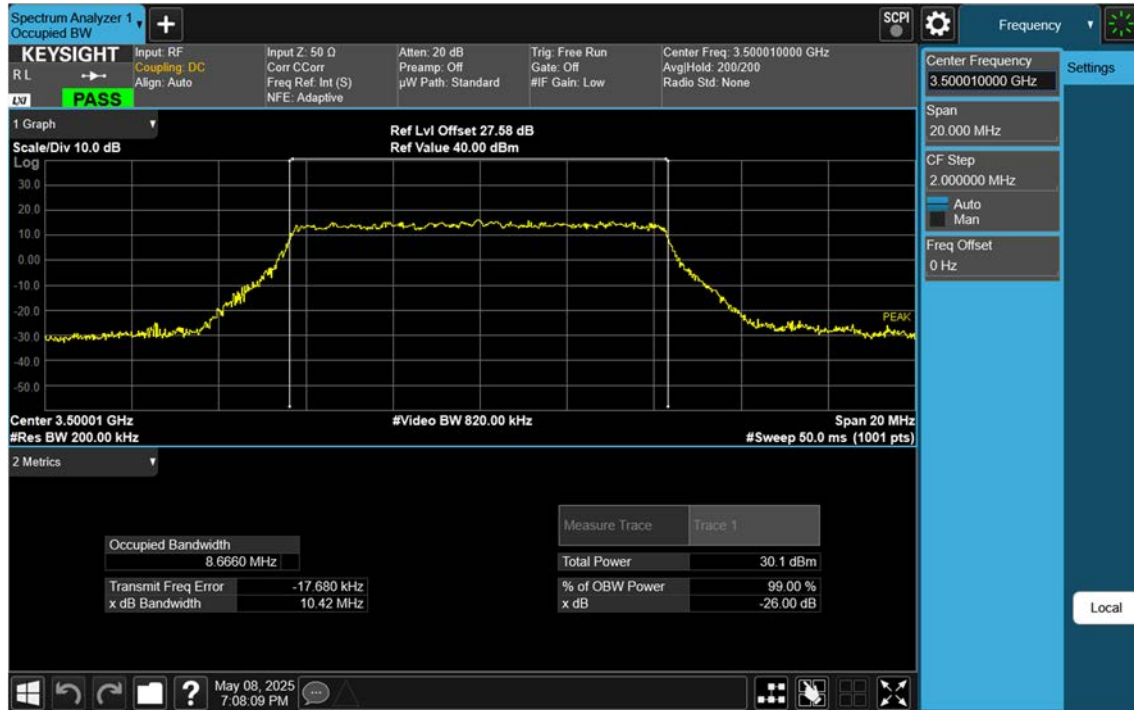
n77(3450~3550 MHz)_10 M_OBW_Mid_16QAM_FullRB



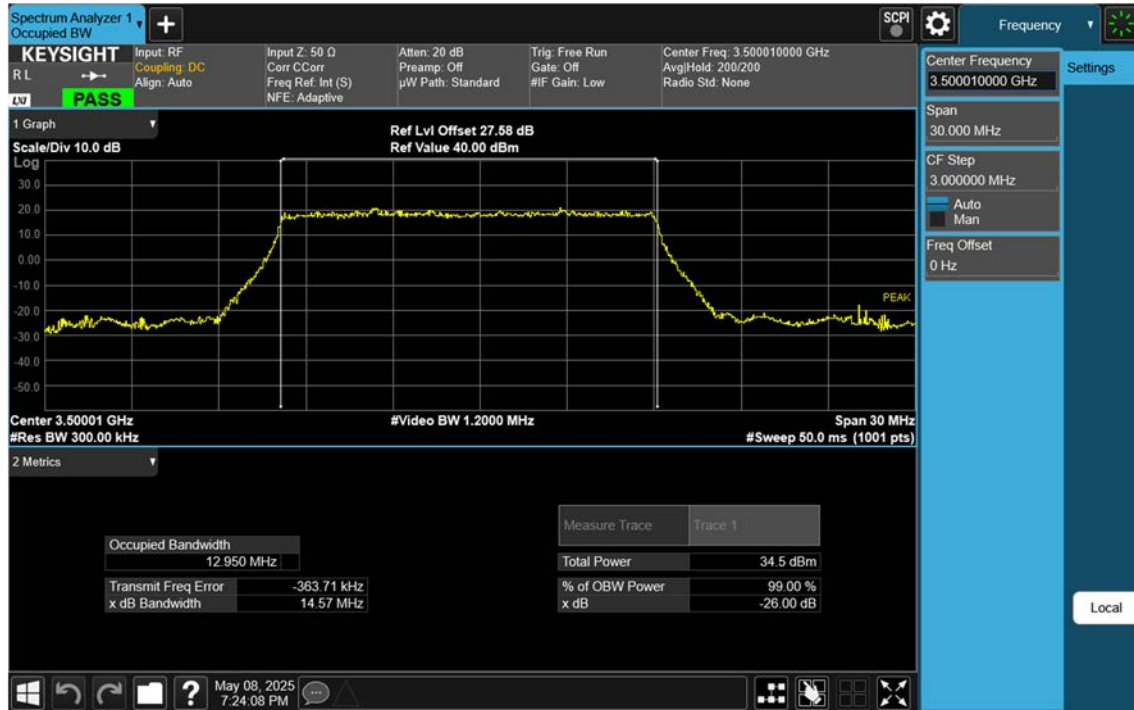
n77(3450~3550 MHz)_10 M_OBW_Mid_64QAM_FullRB



n77(3450~3550 MHz)_10 M_OBW_Mid_256QAM_FullRB



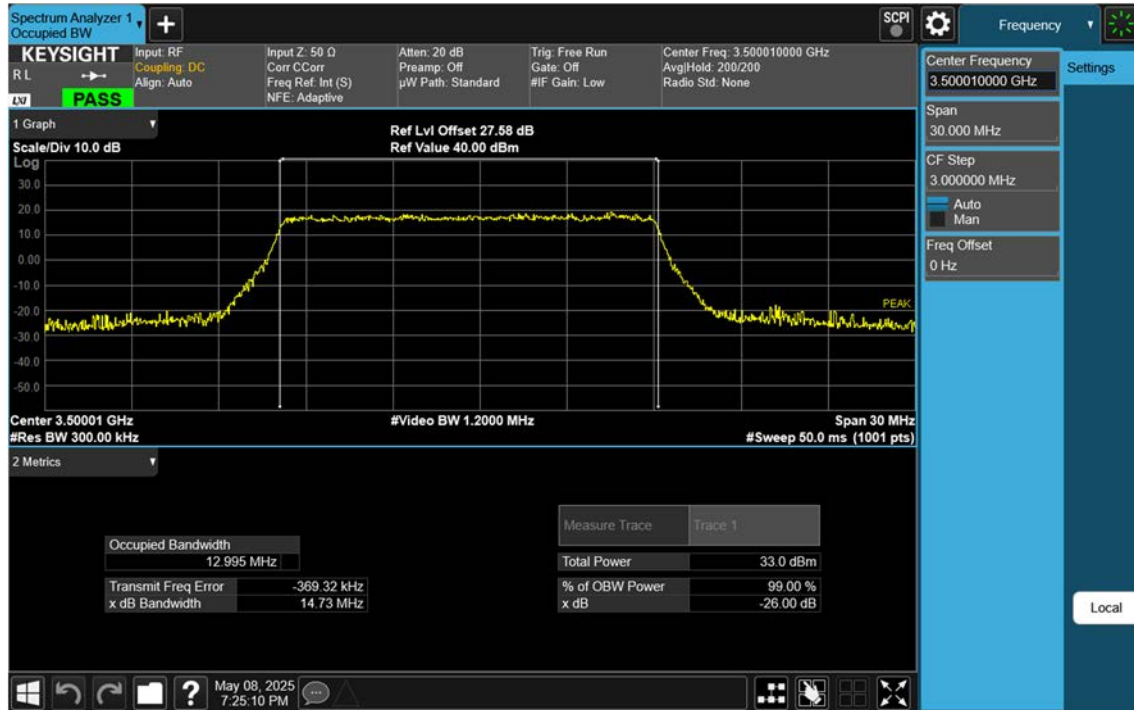
n77(3450~3550 MHz)_15 M_OBW_Mid_BPSK_FullRB



n77(3450~3550 MHz)_15 M_OBW_Mid_QPSK_FullRB



n77(3450~3550 MHz)_15 M_OBW_Mid_16QAM_FullRB



n77(3450~3550 MHz)_15 M_OBW_Mid_64QAM_FullRB

