

TEST REPORT

FCC Sub6 n77(78) Test for SM-F766U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2504-FC029-R1

DATE OF ISSUE
May 23, 2025

Tested by
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TEST REPORT

REPORT NO.

HCT-RF-2504-FC029-R1

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May 23, 2025

Additional Model

SM-F766U1

Applicant

SAMSUNG Electronics Co., Ltd.

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

Product Name

Mobile Phone

Model Name

SM-F766U

Date of Test

February 24, 2025 ~ April 21, 2025

FCC ID

A3LSMF766U

Location of Test

☒ Permanent Testing Lab ☐ On Site Testing

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

FCC Classification:

PCS Licensed Transmitter Held to Ear (PCE)

Test Standard Used

FCC Rule Part: § 27

Test Results

PASS

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	April 22, 2025	Initial Release
1	May 23, 2025	Revised the Power Supply Voltage. (DC 3.88 V → DC 3.90 V)

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:	A3LSMF766U
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§ 27
EUT Type:	Mobile Phone
Model(s):	SM-F766U
Additional Model(s)	SM-F766U1
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:	February 24, 2025 ~ April 21, 2025
Serial number:	Radiated : R3CY30S8YBP Conducted : R3CY10XMRGA
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	8M66G7D	PI/2 BPSK	0.326	25.13
		8M66G7D	QPSK	0.318	25.02
		8M70W7D	16QAM	0.252	24.01
		8M71W7D	64QAM	0.179	22.52
		8M77W7D	256QAM	0.109	20.36
Sub6 n77(78) (15)	3457.50 – 3542.50	13M0G7D	PI/2 BPSK	0.329	25.17
		13M0G7D	QPSK	0.325	25.12
		13M1W7D	16QAM	0.264	24.21
		13M0W7D	64QAM	0.185	22.68
		13M0W7D	256QAM	0.116	20.63
Sub6 n77(78) (20)	3460.02 – 3540.00	18M0G7D	PI/2 BPSK	0.331	25.20
		18M0G7D	QPSK	0.322	25.08
		18M0W7D	16QAM	0.269	24.29
		18M0W7D	64QAM	0.186	22.69
		18M0W7D	256QAM	0.119	20.75
Sub6 n77(78) (25)	3462.50 – 3537.50	23M0G7D	PI/2 BPSK	0.341	25.33
		23M0G7D	QPSK	0.333	25.23
		23M0W7D	16QAM	0.277	24.42
		23M0W7D	64QAM	0.191	22.82
		23M0W7D	256QAM	0.117	20.67
Sub6 n77(78) (30)	3465.00 – 3534.99	27M1G7D	PI/2 BPSK	0.345	25.38
		27M1G7D	QPSK	0.337	25.27
		27M0W7D	16QAM	0.262	24.19
		26M9W7D	64QAM	0.192	22.84
		26M9W7D	256QAM	0.120	20.79
Sub6 n77(78) (40)	3470.01 – 3529.98	35M9G7D	PI/2 BPSK	0.348	25.42
		35M9G7D	QPSK	0.345	25.38
		35M9W7D	16QAM	0.272	24.35
		35M9W7D	64QAM	0.183	22.63
		36M0W7D	256QAM	0.126	20.99
Sub6 n77(78) (50)	3475.02 – 3525.00	46M0G7D	PI/2 BPSK	0.348	25.41
		46M0G7D	QPSK	0.346	25.39
		46M1W7D	16QAM	0.282	24.50
		45M9W7D	64QAM	0.195	22.91
		45M9W7D	256QAM	0.125	20.96
Sub6 n77(78) (60)	3480.00 – 3519.99	58M2G7D	PI/2 BPSK	0.366	25.63
		58M2G7D	QPSK	0.357	25.52
		58M2W7D	16QAM	0.290	24.63
		58M2W7D	64QAM	0.202	23.06
		58M2W7D	256QAM	0.126	21.00
Sub6 n77(78) (70)	3485.01 – 3514.98	64M7G7D	PI/2 BPSK	0.385	25.86
		64M7G7D	QPSK	0.383	25.83
		64M6W7D	16QAM	0.288	24.59
		64M7W7D	64QAM	0.210	23.22
		64M9W7D	256QAM	0.132	21.20
Sub6 n77(78) (80)	3490.02 – 3510.00	77M7G7D	PI/2 BPSK	0.406	26.08
		77M4G7D	QPSK	0.404	26.06
		77M4W7D	16QAM	0.308	24.89
		77M4W7D	64QAM	0.231	23.63
		77M3W7D	256QAM	0.141	21.50
Sub6 n77(78) (90)	3495.00 – 3504.99	87M2G7D	PI/2 BPSK	0.418	26.21
		87M1G7D	QPSK	0.414	26.17
		87M0W7D	16QAM	0.316	25.00
		86M9W7D	64QAM	0.248	23.94
		87M2W7D	256QAM	0.142	21.51
Sub6 n77(78) (100)	3500.01	96M7G7D	PI/2 BPSK	0.394	25.96
		96M6G7D	QPSK	0.392	25.93
		96M5W7D	16QAM	0.319	25.04
		96M8W7D	64QAM	0.232	23.65
		96M6W7D	256QAM	0.141	21.48

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	8M62G7D	PI/2 BPSK	0.213	23.28
		8M67G7D	QPSK	0.207	23.15
		8M66W7D	16QAM	0.164	22.16
		8M64W7D	64QAM	0.116	20.63
		8M68W7D	256QAM	0.074	18.68
Sub6 n77(78) (15)	3707.51 – 3972.48	13M0G7D	PI/2 BPSK	0.207	23.16
		12M9G7D	QPSK	0.207	23.15
		12M9W7D	16QAM	0.158	21.99
		12M9W7D	64QAM	0.119	20.76
		13M0W7D	256QAM	0.073	18.61
Sub6 n77(78) (20)	3710.01 – 3969.99	18M0G7D	PI/2 BPSK	0.207	23.17
		18M0G7D	QPSK	0.201	23.04
		18M0W7D	16QAM	0.164	22.15
		18M0W7D	64QAM	0.113	20.54
		17M9W7D	256QAM	0.068	18.34
Sub6 n77(78) (25)	3712.50 – 3967.50	23M0G7D	PI/2 BPSK	0.219	23.40
		23M0G7D	QPSK	0.214	23.31
		23M0W7D	16QAM	0.169	22.28
		23M0W7D	64QAM	0.115	20.62
		22M9W7D	256QAM	0.065	18.16
Sub6 n77(78) (30)	3715.02 – 3964.98	27M0G7D	PI/2 BPSK	0.220	23.43
		27M0G7D	QPSK	0.219	23.41
		26M9W7D	16QAM	0.166	22.21
		26M9W7D	64QAM	0.119	20.75
		27M0W7D	256QAM	0.071	18.49
Sub6 n77(78) (40)	3720.00 – 3960.00	36M0G7D	PI/2 BPSK	0.220	23.42
		36M0G7D	QPSK	0.213	23.28
		35M9W7D	16QAM	0.174	22.41
		35M8W7D	64QAM	0.124	20.92
		35M8W7D	256QAM	0.074	18.68
Sub6 n77(78) (50)	3725.10 – 3954.99	45M9G7D	PI/2 BPSK	0.226	23.55
		46M0G7D	QPSK	0.217	23.37
		45M8W7D	16QAM	0.173	22.37
		45M8W7D	64QAM	0.126	20.99
		46M0W7D	256QAM	0.074	18.68
Sub6 n77(78) (60)	3730.02 – 3949.98	58M3G7D	PI/2 BPSK	0.224	23.51
		58M1G7D	QPSK	0.223	23.48
		58M1W7D	16QAM	0.173	22.38
		58M0W7D	64QAM	0.119	20.77
		58M0W7D	256QAM	0.076	18.83
Sub6 n77(78) (70)	3735.00 – 3945.00	64M7G7D	PI/2 BPSK	0.227	23.56
		64M7G7D	QPSK	0.221	23.45
		64M5W7D	16QAM	0.175	22.43
		64M5W7D	64QAM	0.124	20.92
		64M6W7D	256QAM	0.073	18.66
Sub6 n77(78) (80)	3740.01 – 3939.99	77M4G7D	PI/2 BPSK	0.234	23.69
		77M3G7D	QPSK	0.230	23.62
		77M4W7D	16QAM	0.181	22.57
		77M6W7D	64QAM	0.129	21.09
		77M5W7D	256QAM	0.079	18.97
Sub6 n77(78) (90)	3745.02 – 3934.98	87M0G7D	PI/2 BPSK	0.256	24.08
		87M2G7D	QPSK	0.245	23.90
		87M0W7D	16QAM	0.196	22.93
		86M8W7D	64QAM	0.135	21.29
		87M1W7D	256QAM	0.083	19.19
Sub6 n77(78) (100)	3750.00 – 3930.00	96M7G7D	PI/2 BPSK	0.261	24.17
		96M5G7D	QPSK	0.245	23.90
		96M4W7D	16QAM	0.201	23.04
		96M6W7D	64QAM	0.139	21.42
		96M8W7D	256QAM	0.089	19.49

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

Test Note

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

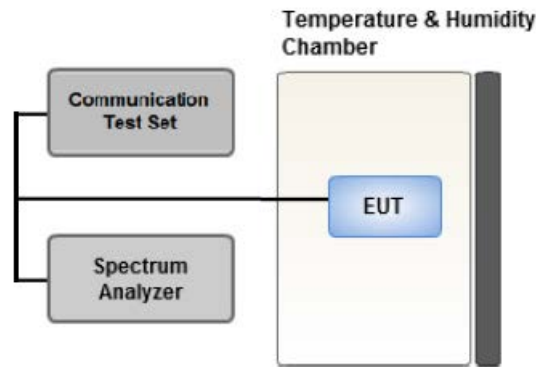
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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

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

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

3.4 PEAK- TO- AVERAGE RATIO



Test setup

① CCDF Procedure for PAPR

Test Settings

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

② Alternate Procedure for PAPR

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

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

Test Settings(Peak Power)

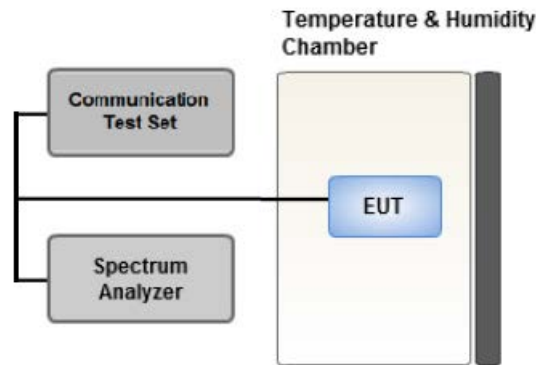
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

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

Test Settings(Average Power)

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

3.5 OCCUPIED BANDWIDTH.



Test setup

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

The EUT makes a call to the communication simulator.

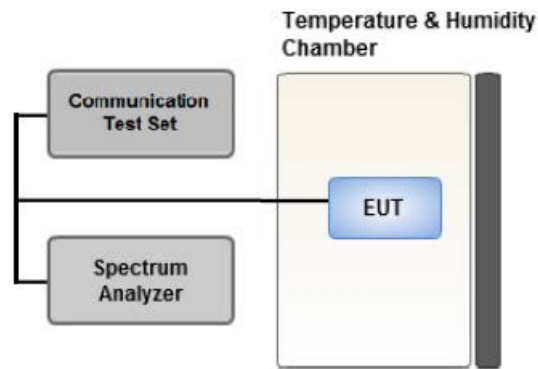
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99 % occupied bandwidth and the 26 dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5 % of the expected OBW
3. VBW $\geq$ 3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5 % of the 99 % occupied bandwidth observed in Step 7

3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

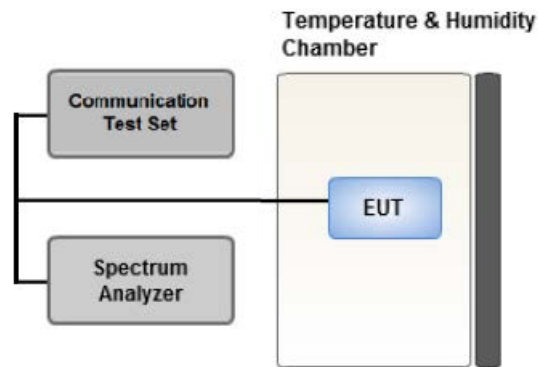
Test Overview

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

Test Settings

1. RBW = 1 MHz
2. VBW $\geq$ 3 MHz
3. Detector = Peak
4. Trace Mode = max hold
5. Sweep time = auto
6. Number of points in sweep $\geq$ 2 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 = auto couple
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.

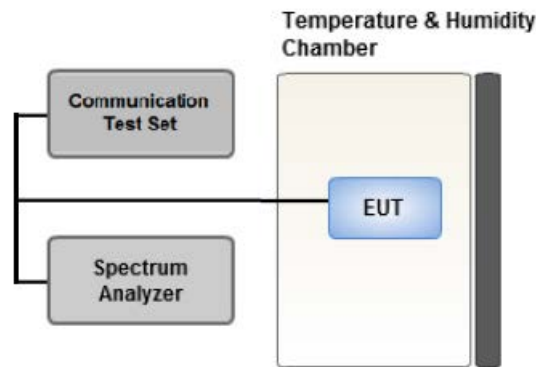
However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz.

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.
- The EUT was tested in three modes(Open, Half-open, Closed), the worst case configuration results are reported.
- Worst case (Equivalent Isotropic Radiated Power)
: 3450 ~ 3550 MHz (Open), 3700 ~ 3980 MHz (Open),
- Worst case (Radiated Spurious Emissions)
: 3450 ~ 3550 MHz (Half Open), 3700 ~ 3980 MHz (Half Open)
- 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, SRS
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. (PC2 Only)
- 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 : 90 MHz(3450 MHz ~ 3550 MHz), 100 MHz (3700 MHz ~ 3980 MHz))
- SM-F766U & additional models were tested and the worst case results are reported.
(Worst case : SM-F766U)

[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		Z
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,Z
Radiated Spurious and Harmonic Emissions	PI/2 BPSK	See Section 9.2		X

3.10 WORST CASE(CONDUCTED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
(Worst case: DFT-S-OFDM)
- Modulation : All Modulation of operation were investigated and the worst case configuration results are reported.
(Worst case: PI/2 BPSK)
- 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, SRS
Worst case: SA
- All power classes were tested, and the results were reported for the worst case PC2. (PC2 Only)
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.
- SM-F766U & additional models were tested and the worst case results are reported.
(Worst case : SM-F766U)

[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	04/17/2027	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	05/14/2025	Annual
RF Switching System	FBSR-06B (3G HPF + LNA)	T&M SYSTEM	F3L2	05/14/2025	Annual
RF Switching System	FBSR-06B (6G HPF + LNA)	T&M SYSTEM	F3L3	05/14/2025	Annual
RF Switching System	FBSR-06B (LNA)	T&M SYSTEM	F3L4	05/14/2025	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	05/23/2025	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/05/2025	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/16/2025	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6262302511	05/14/2025	Annual
UXM 5G Wireless Test Platform	E7515B	KEYSIGHT	MY60101126	02/10/2026	Annual
Signal Analyzer(5 Hz~40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/17/2025	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
FCC LTE Mobile Conducted RF Automation Test Software	-	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	<u>See Note1</u>
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. See 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	-21.77	16.21	11.96	3.04	H	< 1.00	0.326	25.13	1	1
		QPSK	-21.88	16.10	11.96	3.04	H		0.318	25.02		
		16-QAM	-22.89	15.09	11.96	3.04	H		0.252	24.01		
		64-QAM	-24.38	13.60	11.96	3.04	H		0.179	22.52		
		256-QAM	-26.54	11.44	11.96	3.04	H		0.109	20.36		
3500.01		PI/2 BPSK	-22.50	15.82	12.04	3.04	H		0.303	24.82	1	1
		QPSK	-22.58	15.74	12.04	3.04	H		0.298	24.74		
		16-QAM	-23.65	14.67	12.04	3.04	H		0.233	23.67		
		64-QAM	-25.01	13.31	12.04	3.04	H		0.170	22.31		
		256-QAM	-27.11	11.21	12.04	3.04	H		0.105	20.21		
3544.99		PI/2 BPSK	-22.50	15.85	12.04	3.07	H		0.303	24.82	1	12
		QPSK	-22.52	15.83	12.04	3.07	H		0.302	24.80		
		16-QAM	-23.49	14.86	12.04	3.07	H		0.242	23.83		
		64-QAM	-25.12	13.23	12.04	3.07	H		0.166	22.20		
		256-QAM	-27.04	11.31	12.04	3.07	H		0.107	20.28		

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		PI/2 BPSK	-21.80	16.21	12.00	3.04	H	< 1.00	0.329	25.17	1	1
		QPSK	-21.85	16.16	12.00	3.04	H		0.325	25.12		
		16-QAM	-22.76	15.25	12.00	3.04	H		0.264	24.21		
		64-QAM	-24.29	13.72	12.00	3.04	H		0.185	22.68		
		256-QAM	-26.34	11.67	12.00	3.04	H		0.116	20.63		
3500.01	Sub6 n77(78)/ 15 MHz [30 kHz]	PI/2 BPSK	-22.39	15.93	12.04	3.04	H	< 1.00	0.311	24.93	1	19
		QPSK	-22.49	15.83	12.04	3.04	H		0.304	24.83		
		16-QAM	-23.58	14.74	12.04	3.04	H		0.237	23.74		
		64-QAM	-24.89	13.43	12.04	3.04	H		0.175	22.43		
		256-QAM	-27.01	11.31	12.04	3.04	H		0.107	20.31		
3542.50		PI/2 BPSK	-22.50	15.85	12.04	3.07	H	< 1.00	0.303	24.82	1	19
		QPSK	-22.52	15.83	12.04	3.07	H		0.302	24.80		
		16-QAM	-23.44	14.91	12.04	3.07	H		0.244	23.88		
		64-QAM	-24.96	13.39	12.04	3.07	H		0.172	22.36		
		256-QAM	-26.99	11.36	12.04	3.07	H		0.108	20.33		

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		PI/2 BPSK	-21.77	16.24	12.00	3.04	H	< 1.00	0.331	25.20	1	25
		QPSK	-21.89	16.12	12.00	3.04	H		0.322	25.08		
		16-QAM	-22.68	15.33	12.00	3.04	H		0.269	24.29		
		64-QAM	-24.54	13.47	12.00	3.04	H		0.175	22.43		
		256-QAM	-26.22	11.79	12.00	3.04	H		0.119	20.75		
3500.01	Sub6 n77(78)/ 20 MHz [30 kHz]	PI/2 BPSK	-22.17	16.15	12.04	3.04	H	< 1.00	0.327	25.15	1	1
		QPSK	-22.24	16.08	12.04	3.04	H		0.322	25.08		
		16-QAM	-23.32	15.00	12.04	3.04	H		0.251	24.00		
		64-QAM	-24.63	13.69	12.04	3.04	H		0.186	22.69		
		256-QAM	-26.84	11.48	12.04	3.04	H		0.112	20.48		
3540.00		PI/2 BPSK	-22.35	15.93	12.04	3.06	H	< 1.00	0.310	24.91	1	1
		QPSK	-22.41	15.87	12.04	3.06	H		0.306	24.85		
		16-QAM	-23.36	14.92	12.04	3.06	H		0.245	23.90		
		64-QAM	-25.04	13.24	12.04	3.06	H		0.167	22.22		
		256-QAM	-27.00	11.28	12.04	3.06	H		0.106	20.26		

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	-21.67	16.33	12.02	3.02	H	< 1.00	0.341	25.33	1	1
		QPSK	-21.77	16.23	12.02	3.02	H		0.333	25.23		
		16-QAM	-22.58	15.42	12.02	3.02	H		0.277	24.42		
		64-QAM	-24.18	13.82	12.02	3.02	H		0.191	22.82		
		256-QAM	-26.33	11.67	12.02	3.02	H		0.117	20.67		
3500.01		PI/2 BPSK	-22.23	16.09	12.04	3.04	H		0.323	25.09	1	1
		QPSK	-22.27	16.05	12.04	3.04	H		0.320	25.05		
		16-QAM	-23.21	15.11	12.04	3.04	H		0.258	24.11		
		64-QAM	-24.59	13.73	12.04	3.04	H		0.188	22.73		
		256-QAM	-26.87	11.45	12.04	3.04	H		0.111	20.45		
3537.50		PI/2 BPSK	-22.34	15.94	12.04	3.06	H		0.311	24.92	1	63
		QPSK	-22.38	15.90	12.04	3.06	H		0.308	24.88		
		16-QAM	-23.72	14.56	12.04	3.06	H		0.226	23.54		
		64-QAM	-24.99	13.29	12.04	3.06	H		0.169	22.27		
		256-QAM	-27.20	11.08	12.04	3.06	H		0.101	20.06		

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	-21.62	16.38	12.02	3.02	H	< 1.00	0.345	25.38	1	1
		QPSK	-21.73	16.27	12.02	3.02	H		0.337	25.27		
		16-QAM	-22.81	15.19	12.02	3.02	H		0.262	24.19		
		64-QAM	-24.16	13.84	12.02	3.02	H		0.192	22.84		
		256-QAM	-26.21	11.79	12.02	3.02	H		0.120	20.79		
3500.01	Sub6 n77(78)/ 30 MHz [30 kHz]	PI/2 BPSK	-22.25	16.07	12.04	3.04	H	< 1.00	0.321	25.07	1	1
		QPSK	-22.32	16.00	12.04	3.04	H		0.316	25.00		
		16-QAM	-23.47	14.85	12.04	3.04	H		0.243	23.85		
		64-QAM	-24.94	13.38	12.04	3.04	H		0.173	22.38		
		256-QAM	-26.77	11.55	12.04	3.04	H		0.114	20.55		
3534.99		PI/2 BPSK	-22.28	16.02	12.04	3.05	H	< 1.00	0.317	25.01	1	39
		QPSK	-22.29	16.01	12.04	3.05	H		0.316	25.00		
		16-QAM	-23.47	14.83	12.04	3.05	H		0.241	23.82		
		64-QAM	-24.77	13.53	12.04	3.05	H		0.179	22.52		
		256-QAM	-26.86	11.44	12.04	3.05	H		0.110	20.43		

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
3470.01		PI/2 BPSK	-21.61	16.39	12.04	3.01	H	< 1.00	0.348	25.42	1	1
		QPSK	-21.65	16.35	12.04	3.01	H		0.345	25.38		
		16-QAM	-22.68	15.32	12.04	3.01	H		0.272	24.35		
		64-QAM	-24.40	13.60	12.04	3.01	H		0.183	22.63		
		256-QAM	-26.04	11.96	12.04	3.01	H		0.126	20.99		
3500.01	Sub6 n77(78)/ 40 MHz [30 kHz]	PI/2 BPSK	-22.10	16.22	12.04	3.04	H	< 1.00	0.333	25.22	1	1
		QPSK	-22.17	16.15	12.04	3.04	H		0.327	25.15		
		16-QAM	-23.24	15.08	12.04	3.04	H		0.256	24.08		
		64-QAM	-24.72	13.60	12.04	3.04	H		0.182	22.60		
		256-QAM	-26.69	11.63	12.04	3.04	H		0.116	20.63		
3529.98		PI/2 BPSK	-22.28	16.04	12.04	3.05	H	< 1.00	0.318	25.03	1	53
		QPSK	-22.46	15.86	12.04	3.05	H		0.306	24.85		
		16-QAM	-23.34	14.98	12.04	3.05	H		0.250	23.97		
		64-QAM	-24.81	13.51	12.04	3.05	H		0.178	22.50		
		256-QAM	-26.96	11.36	12.04	3.05	H		0.108	20.35		

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	-21.63	16.39	12.04	3.02	H	< 1.00	0.348	25.41	1	1
		QPSK	-21.65	16.37	12.04	3.02	H		0.346	25.39		
		16-QAM	-22.56	15.46	12.04	3.02	H		0.281	24.48		
		64-QAM	-24.26	13.76	12.04	3.02	H		0.190	22.78		
		256-QAM	-26.08	11.94	12.04	3.02	H		0.125	20.96		
3500.01		PI/2 BPSK	-22.00	16.32	12.04	3.04	H		0.340	25.32	1	1
		QPSK	-22.11	16.21	12.04	3.04	H		0.332	25.21		
		16-QAM	-22.82	15.50	12.04	3.04	H		0.282	24.50		
		64-QAM	-24.41	13.91	12.04	3.04	H		0.195	22.91		
		256-QAM	-26.59	11.73	12.04	3.04	H		0.118	20.73		
3525.00		PI/2 BPSK	-22.23	16.17	12.04	3.04	H		0.329	25.17	1	131
		QPSK	-22.29	16.11	12.04	3.04	H		0.324	25.11		
		16-QAM	-23.29	15.11	12.04	3.04	H		0.258	24.11		
		64-QAM	-24.85	13.55	12.04	3.04	H		0.180	22.55		
		256-QAM	-26.91	11.49	12.04	3.04	H		0.112	20.49		

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
3480.00		PI/2 BPSK	-21.42	16.61	12.04	3.02	H	< 1.00	0.366	25.63	1	1
		QPSK	-21.53	16.50	12.04	3.02	H		0.357	25.52		
		16-QAM	-22.42	15.61	12.04	3.02	H		0.290	24.63		
		64-QAM	-23.99	14.04	12.04	3.02	H		0.202	23.06		
		256-QAM	-26.05	11.98	12.04	3.02	H		0.126	21.00		
3500.01	Sub6 n77(78)/ 60 MHz [30 kHz]	PI/2 BPSK	-21.92	16.40	12.04	3.04	H	< 1.00	0.347	25.40	1	1
		QPSK	-21.97	16.35	12.04	3.04	H		0.343	25.35		
		16-QAM	-22.90	15.42	12.04	3.04	H		0.277	24.42		
		64-QAM	-24.48	13.84	12.04	3.04	H		0.192	22.84		
		256-QAM	-26.54	11.78	12.04	3.04	H		0.120	20.78		
3519.99		PI/2 BPSK	-21.93	16.56	12.04	3.04	H	< 1.00	0.360	25.56	1	1
		QPSK	-21.99	16.50	12.04	3.04	H		0.355	25.50		
		16-QAM	-23.12	15.37	12.04	3.04	H		0.274	24.37		
		64-QAM	-24.59	13.90	12.04	3.04	H		0.195	22.90		
		256-QAM	-26.57	11.92	12.04	3.04	H		0.124	20.92		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3485.01	Sub6 n77(78)/ 70 MHz [30 kHz]	PI/2 BPSK	-21.32	16.78	12.04	3.03	H	< 1.00	0.379	25.79	1	1
		QPSK	-21.42	16.68	12.04	3.03	H		0.371	25.69		
		16-QAM	-22.55	15.55	12.04	3.03	H		0.286	24.56		
		64-QAM	-23.89	14.21	12.04	3.03	H		0.210	23.22		
		256-QAM	-26.05	12.05	12.04	3.03	H		0.128	21.06		
3500.01		PI/2 BPSK	-21.46	16.86	12.04	3.04	H		0.385	25.86	1	1
		QPSK	-21.49	16.83	12.04	3.04	H		0.383	25.83		
		16-QAM	-22.73	15.59	12.04	3.04	H		0.288	24.59		
		64-QAM	-24.14	14.18	12.04	3.04	H		0.208	23.18		
		256-QAM	-26.12	12.20	12.04	3.04	H		0.132	21.20		
3514.98		PI/2 BPSK	-21.80	16.72	12.04	3.04	H		0.373	25.72	1	1
		QPSK	-21.96	16.56	12.04	3.04	H		0.360	25.56		
		16-QAM	-23.07	15.45	12.04	3.04	H		0.279	24.45		
		64-QAM	-24.47	14.05	12.04	3.04	H		0.202	23.05		
		256-QAM	-26.39	12.13	12.04	3.04	H		0.130	21.13		

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	-21.26	16.91	12.04	3.04	H	< 1.00	0.390	25.91	1	1
		QPSK	-21.36	16.81	12.04	3.04	H		0.381	25.81		
		16-QAM	-22.28	15.89	12.04	3.04	H		0.308	24.89		
		64-QAM	-23.95	14.22	12.04	3.04	H		0.210	23.22		
		256-QAM	-25.81	12.36	12.04	3.04	H		0.137	21.36		
3500.01		PI/2 BPSK	-21.24	17.08	12.04	3.04	H		0.406	26.08	1	1
		QPSK	-21.26	17.06	12.04	3.04	H		0.404	26.06		
		16-QAM	-22.46	15.86	12.04	3.04	H		0.306	24.86		
		64-QAM	-23.69	14.63	12.04	3.04	H		0.231	23.63		
		256-QAM	-25.82	12.50	12.04	3.04	H		0.141	21.50		
3510.00		PI/2 BPSK	-21.61	16.96	12.04	3.05	H	0.394	25.95	1	1	
		QPSK	-21.62	16.95	12.04	3.05	H	0.393	25.94			
		16-QAM	-22.84	15.73	12.04	3.05	H	0.297	24.72			
		64-QAM	-24.31	14.26	12.04	3.05	H	0.211	23.25			
		256-QAM	-26.31	12.26	12.04	3.05	H	0.133	21.25			

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	Sub6 n77(78)/ 90 MHz [30 kHz]	PI/2 BPSK	-21.05	17.20	12.04	3.04	H	< 1.00	0.417	26.20	1	1
		QPSK	-21.08	17.17	12.04	3.04	H		0.414	26.17		
		16-QAM	-22.25	16.00	12.04	3.04	H		0.316	25.00		
		64-QAM	-23.31	14.94	12.04	3.04	H		0.248	23.94		
		256-QAM	-25.74	12.51	12.04	3.04	H		0.142	21.51		
3500.01		PI/2 BPSK	-21.11	17.21	12.04	3.04	H		0.418	26.21	1	1
		QPSK	-21.26	17.06	12.04	3.04	H		0.404	26.06		
		16-QAM	-22.51	15.81	12.04	3.04	H		0.303	24.81		
		64-QAM	-24.02	14.30	12.04	3.04	H		0.214	23.30		
		256-QAM	-26.00	12.32	12.04	3.04	H		0.136	21.32		
3504.99		PI/2 BPSK	-21.37	17.08	12.04	3.05	H		0.405	26.07	1	1
		QPSK	-21.56	16.89	12.04	3.05	H		0.387	25.88		
		16-QAM	-22.53	15.92	12.04	3.05	H		0.310	24.91		
		64-QAM	-24.02	14.43	12.04	3.05	H		0.220	23.42		
		256-QAM	-26.01	12.44	12.04	3.05	H		0.139	21.43		

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
3500.01	Sub6 n77(78)/ 100 MHz [30 kHz]	PI/2 BPSK	-21.36	16.96	12.04	3.04	H	< 1.00	0.394	25.96	1	1
		QPSK	-21.39	16.93	12.04	3.04	H		0.392	25.93		
		16-QAM	-22.28	16.04	12.04	3.04	H		0.319	25.04		
		64-QAM	-23.67	14.65	12.04	3.04	H		0.232	23.65		
		256-QAM	-25.84	12.48	12.04	3.04	H		0.141	21.48		

8.2 RADIATED SPURIOUS EMISSIONS

■ NR Band:	<u>N77(78)</u>
■ Bandwidth:	<u>90 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
633000 (3495.00)	6 990.00	-58.35	11.16	-52.25	4.48	V	-45.57	-13.00	1	1
	10 485.00	-48.48	11.72	-37.93	5.61	V	-31.82	-13.00		
	13 980.00	-61.92	12.77	-52.34	6.52	V	-46.09	-13.00		
633334 (3500.01)	7 000.02	-59.14	11.13	-52.49	4.45	H	-45.81	-13.00	1	1
	10 500.03	-54.02	11.71	-42.77	5.64	V	-36.70	-13.00		
	14 000.04	-58.62	12.76	-49.04	6.55	V	-42.83	-13.00		
636666 (3504.99)	7 009.98	-59.24	11.10	-52.31	4.42	H	-45.63	-13.00	1	1
	10 514.97	-49.66	11.71	-38.60	5.65	V	-32.54	-13.00		
	14 019.96	-58.71	12.74	-49.67	6.55	H	-43.48	-13.00		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n77(78)	10 MHz	3500.01	BPSK	Full RB	0	4.24
			QPSK			5.38
			16-QAM			5.65
			64-QAM			5.96
			256-QAM			6.57
	15 MHz		BPSK			4.15
			QPSK			5.35
			16-QAM			5.53
			64-QAM			5.82
			256-QAM			6.43
	20 MHz		BPSK			4.25
			QPSK			5.34
			16-QAM			5.64
			64-QAM			5.81
			256-QAM			6.46
	25 MHz		BPSK			4.27
			QPSK			5.41
			16-QAM			5.70
			64-QAM			6.02
			256-QAM			6.52
	30 MHz		BPSK			4.32
			QPSK			5.31
			16-QAM			5.64
			64-QAM			5.92
			256-QAM			6.46
	40 MHz		BPSK			5.55
			QPSK			5.83
			16-QAM			5.82
			64-QAM			6.02
			256-QAM			6.60
	50 MHz		BPSK			4.18
			QPSK			4.87
			16-QAM			5.64
			64-QAM			5.85
			256-QAM			6.41
	60 MHz		BPSK			4.20
			QPSK			4.87
			16-QAM			5.60
			64-QAM			5.85
			256-QAM			6.40
	70 MHz		BPSK			4.42
			QPSK			4.84
			16-QAM			5.54
			64-QAM			5.83
			256-QAM			6.32
	80 MHz		BPSK			4.73
			QPSK			4.87

			16-QAM			5.63
			64-QAM			5.84
			256-QAM			6.33
	90 MHz		BPSK			4.17
			QPSK			4.92
			16-QAM			5.72
			64-QAM			5.93
			256-QAM			6.40
	100 MHz		BPSK			4.70
			QPSK			4.86
			16-QAM			5.62
			64-QAM			5.89
			256-QAM			6.36

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	8.6622
			QPSK			8.6633
			16-QAM			8.7044
			64-QAM			8.7073
			256-QAM			8.7725
	15 MHz		BPSK			12.989
			QPSK			13.013
			16-QAM			13.053
			64-QAM			12.980
			256-QAM			12.961
	20 MHz		BPSK			18.002
			QPSK			18.014
			16-QAM			18.027
			64-QAM			17.994
			256-QAM			18.016
	25 MHz		BPSK			22.981
			QPSK			23.045
			16-QAM			23.038
			64-QAM			23.029
			256-QAM			22.995
	30 MHz		BPSK			27.055
			QPSK			27.054
			16-QAM			27.027
			64-QAM			26.929
			256-QAM			26.927
	40 MHz		BPSK			35.944
			QPSK			35.941
			16-QAM			35.927
			64-QAM			35.879
			256-QAM			35.983
	50 MHz		BPSK			45.982
			QPSK			46.007
			16-QAM			46.051
			64-QAM			45.938
			256-QAM			45.935
	60 MHz		BPSK			58.190
			QPSK			58.222
			16-QAM			58.172
			64-QAM			58.235
			256-QAM			58.187
	70 MHz		BPSK			64.672
			QPSK			64.713
			16-QAM			64.630
			64-QAM			64.673
			256-QAM			64.890
	80 MHz		BPSK			77.664
			QPSK			77.440

			16-QAM			77.423
			64-QAM			77.382
			256-QAM			77.250
	90 MHz		BPSK			87.221
			QPSK			87.129
			16-QAM			86.990
			64-QAM			86.866
			256-QAM			87.146
	100 MHz		BPSK			96.651
			QPSK			96.640
			16-QAM			96.525
			64-QAM			96.815
			256-QAM			96.558

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	9.7807	30.315	-62.287	-31.972	-13.00
		3500.010	4.9253	29.722	-60.392	-30.670	
		3544.980	5.9721	30.315	-61.142	-30.827	
	15	3457.500	5.1945	30.315	-61.709	-31.394	
		3500.010	5.2244	30.315	-61.934	-31.619	
		3542.490	4.7757	29.722	-61.512	-31.790	
	20	3460.020	5.0349	30.315	-62.297	-31.982	
		3500.010	8.8734	30.315	-61.783	-31.468	
		3540.000	4.9652	29.722	-61.749	-32.027	
	25	3462.510	4.9652	29.722	-61.204	-31.482	
		3500.010	9.5314	30.315	-61.855	-31.540	
		3537.480	4.9352	29.722	-61.722	-32.000	
	30	3465.000	4.9751	29.722	-62.017	-32.295	
		3500.010	4.9552	29.722	-61.776	-32.054	
		3534.990	6.0120	30.315	-60.646	-30.331	
	40	3470.010	4.9352	29.722	-62.198	-32.476	
		3500.010	9.1426	30.315	-61.355	-31.040	
		3529.980	5.1945	30.315	-61.265	-30.950	
	50	3475.020	9.9202	30.315	-62.197	-31.882	
		3500.010	4.9253	29.722	-62.369	-32.647	
		3525.000	9.7807	30.315	-62.134	-31.819	
	60	3480.000	8.3450	30.315	-62.167	-31.852	
		3500.010	5.4836	30.315	-62.002	-31.687	
		3519.990	5.4836	30.315	-62.188	-31.873	
	70	3485.010	6.2014	30.315	-61.910	-31.595	
		3500.010	8.1057	30.315	-62.384	-32.069	
		3514.980	8.6341	30.315	-61.263	-30.948	
	80	3490.020	4.8854	29.722	-61.004	-31.282	
		3500.010	4.9153	29.722	-61.808	-32.086	
		3510.000	5.5135	30.315	-62.104	-31.789	
	90	3495.000	4.9751	29.722	-61.409	-31.687	
		3500.010	7.8664	30.315	-61.016	-30.701	
		3504.990	4.5065	29.722	-60.924	-31.202	
	100	3500.010	8.8933	30.315	-62.138	-31.823	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 211 ~ 278.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
- Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter
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 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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 009 994	0.0	0.000 000	0.000
	100 %	-30	3455 009 991	-3.4	0.000 000	-0.001
	100 %	-20	3455 009 990	-3.9	0.000 000	-0.001
	100 %	-10	3455 009 990	-3.6	0.000 000	-0.001
	100 %	0	3455 009 988	-6.0	0.000 000	-0.002
	100 %	+10	3455 009 990	-4.5	0.000 000	-0.001
	100 %	+30	3455 009 990	-3.8	0.000 000	-0.001
	100 %	+40	3455 009 988	-5.9	0.000 000	-0.002
	100 %	+50	3455 009 990	-3.9	0.000 000	-0.001
	Batt. Endpoint	+20	3455 009 987	-7.0	0.000 000	-0.002
3544.980	100 %	+20(Ref)	3544 980 002	0.0	0.000 000	0.000
	100 %	-30	3544 979 999	-3.1	0.000 000	-0.001
	100 %	-20	3544 979 998	-3.9	0.000 000	-0.001
	100 %	-10	3544 980 002	0.4	0.000 000	0.000
	100 %	0	3544 980 000	-1.9	0.000 000	-0.001
	100 %	+10	3544 979 998	-3.5	0.000 000	-0.001
	100 %	+30	3544 979 997	-4.4	0.000 000	-0.001
	100 %	+40	3544 979 998	-4.0	0.000 000	-0.001
	100 %	+50	3544 979 993	-8.9	0.000 000	-0.003
	Batt. Endpoint	+20	3544 980 005	3.2	0.000 000	0.001

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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 499 993	0.0	0.000 000	0.000
	100 %	-30	3457 499 986	-7.1	0.000 000	-0.002
	100 %	-20	3457 499 985	-8.0	0.000 000	-0.002
	100 %	-10	3457 499 985	-8.0	0.000 000	-0.002
	100 %	0	3457 499 986	-7.2	0.000 000	-0.002
	100 %	+10	3457 499 988	-5.6	0.000 000	-0.002
	100 %	+30	3457 499 984	-9.5	0.000 000	-0.003
	100 %	+40	3457 499 987	-6.3	0.000 000	-0.002
	100 %	+50	3457 499 987	-6.9	0.000 000	-0.002
	Batt. Endpoint	+20	3457 499 985	-7.9	0.000 000	-0.002
3542.490	100 %	+20(Ref)	3542 489 995	0.0	0.000 000	0.000
	100 %	-30	3542 489 992	-3.0	0.000 000	-0.001
	100 %	-20	3542 489 990	-5.8	0.000 000	-0.002
	100 %	-10	3542 489 992	-3.2	0.000 000	-0.001
	100 %	0	3542 489 993	-2.5	0.000 000	-0.001
	100 %	+10	3542 489 991	-4.3	0.000 000	-0.001
	100 %	+30	3542 489 990	-5.7	0.000 000	-0.002
	100 %	+40	3542 489 990	-5.6	0.000 000	-0.002
	100 %	+50	3542 489 993	-2.6	0.000 000	-0.001
	Batt. Endpoint	+20	3542 489 994	-1.4	0.000 000	0.000

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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 019 991	0.0	0.000 000	0.000
	100 %	-30	3460 019 984	-7.9	0.000 000	-0.002
	100 %	-20	3460 019 985	-6.7	0.000 000	-0.002
	100 %	-10	3460 019 985	-6.5	0.000 000	-0.002
	100 %	0	3460 019 984	-7.6	0.000 000	-0.002
	100 %	+10	3460 019 984	-7.9	0.000 000	-0.002
	100 %	+30	3460 019 985	-6.2	0.000 000	-0.002
	100 %	+40	3460 019 987	-4.5	0.000 000	-0.001
	100 %	+50	3460 019 986	-5.9	0.000 000	-0.002
	Batt. Endpoint	+20	3460 019 986	-5.2	0.000 000	-0.002
3540.000	100 %	+20(Ref)	3539 999 996	0.0	0.000 000	0.000
	100 %	-30	3539 999 993	-2.5	0.000 000	-0.001
	100 %	-20	3539 999 995	-0.7	0.000 000	0.000
	100 %	-10	3539 999 991	-4.7	0.000 000	-0.001
	100 %	0	3540 000 000	4.0	0.000 000	0.001
	100 %	+10	3539 999 996	0.5	0.000 000	0.000
	100 %	+30	3540 000 000	4.4	0.000 000	0.001
	100 %	+40	3539 999 995	-0.8	0.000 000	0.000
	100 %	+50	3539 999 996	0.2	0.000 000	0.000
	Batt. Endpoint	+20	3539 999 986	-9.4	0.000 000	-0.003

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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 509 994	0.0	0.000 000	0.000
	100 %	-30	3462 509 989	-4.8	0.000 000	-0.001
	100 %	-20	3462 509 984	-10.5	0.000 000	-0.003
	100 %	-10	3462 509 982	-12.1	0.000 000	-0.004
	100 %	0	3462 509 987	-7.6	0.000 000	-0.002
	100 %	+10	3462 509 990	-3.9	0.000 000	-0.001
	100 %	+30	3462 509 984	-9.9	0.000 000	-0.003
	100 %	+40	3462 509 987	-7.6	0.000 000	-0.002
	100 %	+50	3462 509 984	-10.2	0.000 000	-0.003
	Batt. Endpoint	+20	3462 509 994	-0.1	0.000 000	0.000
3537.480	100 %	+20(Ref)	3537 479 985	0.0	0.000 000	0.000
	100 %	-30	3537 479 984	-1.4	0.000 000	0.000
	100 %	-20	3537 479 978	-7.1	0.000 000	-0.002
	100 %	-10	3537 479 982	-2.6	0.000 000	-0.001
	100 %	0	3537 479 973	-11.8	0.000 000	-0.003
	100 %	+10	3537 479 981	-3.7	0.000 000	-0.001
	100 %	+30	3537 479 978	-7.5	0.000 000	-0.002
	100 %	+40	3537 479 979	-5.7	0.000 000	-0.002
	100 %	+50	3537 479 981	-4.5	0.000 000	-0.001
	Batt. Endpoint	+20	3537 479 977	-8.0	0.000 000	-0.002

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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 999 987	0.0	0.000 000	0.000
	100 %	-30	3464 999 979	-7.3	0.000 000	-0.002
	100 %	-20	3464 999 980	-6.6	0.000 000	-0.002
	100 %	-10	3464 999 977	-9.3	0.000 000	-0.003
	100 %	0	3464 999 977	-9.3	0.000 000	-0.003
	100 %	+10	3464 999 976	-10.9	0.000 000	-0.003
	100 %	+30	3464 999 982	-5.1	0.000 000	-0.001
	100 %	+40	3464 999 985	-1.2	0.000 000	0.000
	100 %	+50	3464 999 980	-6.6	0.000 000	-0.002
	Batt. Endpoint	+20	3464 999 985	-1.9	0.000 000	-0.001
3534.990	100 %	+20(Ref)	3534 990 000	0.0	0.000 000	0.000
	100 %	-30	3534 989 997	-2.7	0.000 000	-0.001
	100 %	-20	3534 990 000	0.3	0.000 000	0.000
	100 %	-10	3534 989 999	-0.9	0.000 000	0.000
	100 %	0	3534 989 998	-1.8	0.000 000	-0.001
	100 %	+10	3534 990 001	0.9	0.000 000	0.000
	100 %	+30	3534 989 998	-1.8	0.000 000	-0.001
	100 %	+40	3534 990 002	2.4	0.000 000	0.001
	100 %	+50	3534 990 000	0.2	0.000 000	0.000
	Batt. Endpoint	+20	3534 990 001	1.1	0.000 000	0.000

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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 009 995	0.0	0.000 000	0.000
	100 %	-30	3470 009 989	-6.5	0.000 000	-0.002
	100 %	-20	3470 009 985	-9.9	0.000 000	-0.003
	100 %	-10	3470 009 988	-7.1	0.000 000	-0.002
	100 %	0	3470 009 988	-7.2	0.000 000	-0.002
	100 %	+10	3470 009 987	-8.5	0.000 000	-0.002
	100 %	+30	3470 009 986	-9.1	0.000 000	-0.003
	100 %	+40	3470 009 983	-12.1	0.000 000	-0.003
	100 %	+50	3470 009 981	-14.4	0.000 000	-0.004
	Batt. Endpoint	+20	3470 009 986	-8.9	0.000 000	-0.003
3529.980	100 %	+20(Ref)	3529 979 993	0.0	0.000 000	0.000
	100 %	-30	3529 979 991	-2.0	0.000 000	-0.001
	100 %	-20	3529 979 987	-5.5	0.000 000	-0.002
	100 %	-10	3529 979 986	-7.0	0.000 000	-0.002
	100 %	0	3529 979 988	-5.4	0.000 000	-0.002
	100 %	+10	3529 979 989	-3.9	0.000 000	-0.001
	100 %	+30	3529 979 991	-2.3	0.000 000	-0.001
	100 %	+40	3529 979 989	-3.5	0.000 000	-0.001
	100 %	+50	3529 979 988	-5.2	0.000 000	-0.001
	Batt. Endpoint	+20	3529 979 987	-6.1	0.000 000	-0.002

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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 019 994	0.0	0.000 000	0.000
	100 %	-30	3475 019 988	-5.7	0.000 000	-0.002
	100 %	-20	3475 019 991	-2.2	0.000 000	-0.001
	100 %	-10	3475 019 988	-5.3	0.000 000	-0.002
	100 %	0	3475 019 987	-6.0	0.000 000	-0.002
	100 %	+10	3475 019 987	-6.4	0.000 000	-0.002
	100 %	+30	3475 019 990	-3.5	0.000 000	-0.001
	100 %	+40	3475 019 987	-6.2	0.000 000	-0.002
	100 %	+50	3475 019 991	-3.0	0.000 000	-0.001
	Batt. Endpoint	+20	3475 019 990	-3.6	0.000 000	-0.001
3525.000	100 %	+20(Ref)	3524 999 997	0.0	0.000 000	0.000
	100 %	-30	3524 999 987	-10.3	0.000 000	-0.003
	100 %	-20	3524 999 992	-4.4	0.000 000	-0.001
	100 %	-10	3524 999 989	-7.6	0.000 000	-0.002
	100 %	0	3524 999 993	-4.4	0.000 000	-0.001
	100 %	+10	3524 999 991	-6.2	0.000 000	-0.002
	100 %	+30	3524 999 997	0.4	0.000 000	0.000
	100 %	+40	3524 999 990	-6.7	0.000 000	-0.002
	100 %	+50	3524 999 998	1.2	0.000 000	0.000
	Batt. Endpoint	+20	3524 999 990	-6.7	0.000 000	-0.002

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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 999 994	0.0	0.000 000	0.000
	100 %	-30	3479 999 987	-7.0	0.000 000	-0.002
	100 %	-20	3479 999 983	-11.1	0.000 000	-0.003
	100 %	-10	3479 999 991	-2.9	0.000 000	-0.001
	100 %	0	3479 999 987	-7.1	0.000 000	-0.002
	100 %	+10	3479 999 988	-5.8	0.000 000	-0.002
	100 %	+30	3479 999 995	1.0	0.000 000	0.000
	100 %	+40	3479 999 984	-9.6	0.000 000	-0.003
	100 %	+50	3479 999 991	-3.4	0.000 000	-0.001
	Batt. Endpoint	+20	3479 999 990	-3.8	0.000 000	-0.001
3519.990	100 %	+20(Ref)	3519 989 995	0.0	0.000 000	0.000
	100 %	-30	3519 989 995	-0.3	0.000 000	0.000
	100 %	-20	3519 989 997	2.0	0.000 000	0.001
	100 %	-10	3519 989 991	-4.4	0.000 000	-0.001
	100 %	0	3519 990 001	6.2	0.000 000	0.002
	100 %	+10	3519 989 993	-2.6	0.000 000	-0.001
	100 %	+30	3519 989 994	-1.3	0.000 000	0.000
	100 %	+40	3519 989 992	-2.8	0.000 000	-0.001
	100 %	+50	3519 989 991	-3.9	0.000 000	-0.001
	Batt. Endpoint	+20	3519 989 997	1.5	0.000 000	0.000

- ▣ BandWidth: 70 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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 009 996	0.0	0.000 000	0.000
	100 %	-30	3485 009 995	-1.3	0.000 000	0.000
	100 %	-20	3485 009 999	2.6	0.000 000	0.001
	100 %	-10	3485 009 991	-5.1	0.000 000	-0.001
	100 %	0	3485 009 992	-3.7	0.000 000	-0.001
	100 %	+10	3485 009 996	0.0	0.000 000	0.000
	100 %	+30	3485 009 995	-0.9	0.000 000	0.000
	100 %	+40	3485 009 988	-7.8	0.000 000	-0.002
	100 %	+50	3485 009 999	3.1	0.000 000	0.001
	Batt. Endpoint	+20	3485 009 996	-0.3	0.000 000	0.000
3514.980	100 %	+20(Ref)	3514 980 001	0.0	0.000 000	0.000
	100 %	-30	3514 980 005	4.2	0.000 000	0.001
	100 %	-20	3514 980 010	9.7	0.000 000	0.003
	100 %	-10	3514 980 004	3.4	0.000 000	0.001
	100 %	0	3514 980 003	2.2	0.000 000	0.001
	100 %	+10	3514 980 006	5.6	0.000 000	0.002
	100 %	+30	3514 980 002	1.4	0.000 000	0.000
	100 %	+40	3514 980 008	7.7	0.000 000	0.002
	100 %	+50	3514 980 006	5.7	0.000 000	0.002
	Batt. Endpoint	+20	3514 980 009	8.1	0.000 000	0.002

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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 019 998	0.0	0.000 000	0.000
	100 %	-30	3490 019 997	-0.7	0.000 000	0.000
	100 %	-20	3490 020 001	2.6	0.000 000	0.001
	100 %	-10	3490 020 001	3.3	0.000 000	0.001
	100 %	0	3490 020 001	3.0	0.000 000	0.001
	100 %	+10	3490 019 999	1.1	0.000 000	0.000
	100 %	+30	3490 020 003	4.7	0.000 000	0.001
	100 %	+40	3490 020 002	3.7	0.000 000	0.001
	100 %	+50	3490 020 002	3.6	0.000 000	0.001
	Batt. Endpoint	+20	3490 019 996	-2.0	0.000 000	-0.001
3510.000	100 %	+20(Ref)	3510 000 002	0.0	0.000 000	0.000
	100 %	-30	3510 000 009	7.0	0.000 000	0.002
	100 %	-20	3509 999 994	-7.7	0.000 000	-0.002
	100 %	-10	3510 000 003	0.6	0.000 000	0.000
	100 %	0	3510 000 000	-2.2	0.000 000	-0.001
	100 %	+10	3510 000 004	2.2	0.000 000	0.001
	100 %	+30	3510 000 007	5.0	0.000 000	0.001
	100 %	+40	3510 000 001	-1.4	0.000 000	0.000
	100 %	+50	3510 000 008	6.1	0.000 000	0.002
	Batt. Endpoint	+20	3510 000 003	0.9	0.000 000	0.000

- ▣ BandWidth: 90 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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)	3495 000 002	0.0	0.000 000	0.000
	100 %	-30	3495 000 003	0.7	0.000 000	0.000
	100 %	-20	3494 999 997	-5.7	0.000 000	-0.002
	100 %	-10	3494 999 997	-5.3	0.000 000	-0.002
	100 %	0	3494 999 995	-7.0	0.000 000	-0.002
	100 %	+10	3494 999 999	-3.7	0.000 000	-0.001
	100 %	+30	3495 000 003	0.6	0.000 000	0.000
	100 %	+40	3495 000 003	0.3	0.000 000	0.000
	100 %	+50	3494 999 991	-11.1	0.000 000	-0.003
	Batt. Endpoint	+20	3495 000 002	-0.2	0.000 000	0.000
3504.990	100 %	+20(Ref)	3504 989 995	0.0	0.000 000	0.000
	100 %	-30	3504 989 990	-5.0	0.000 000	-0.001
	100 %	-20	3504 989 992	-3.7	0.000 000	-0.001
	100 %	-10	3504 989 987	-8.5	0.000 000	-0.002
	100 %	0	3504 989 993	-2.0	0.000 000	-0.001
	100 %	+10	3504 989 991	-4.5	0.000 000	-0.001
	100 %	+30	3504 989 991	-4.1	0.000 000	-0.001
	100 %	+40	3504 989 993	-2.3	0.000 000	-0.001
	100 %	+50	3504 989 995	-0.2	0.000 000	0.000
	Batt. Endpoint	+20	3504 989 994	-1.8	0.000 000	-0.001

- ▣ BandWidth: 100 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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 009 992	0.0	0.000 000	0.000
	100 %	-30	3500 009 984	-7.5	0.000 000	-0.002
	100 %	-20	3500 009 984	-7.5	0.000 000	-0.002
	100 %	-10	3500 009 989	-2.3	0.000 000	-0.001
	100 %	0	3500 009 991	-0.8	0.000 000	0.000
	100 %	+10	3500 009 989	-2.5	0.000 000	-0.001
	100 %	+30	3500 009 989	-2.3	0.000 000	-0.001
	100 %	+40	3500 009 992	0.0	0.000 000	0.000
	100 %	+50	3500 009 992	0.5	0.000 000	0.000
	Batt. Endpoint	+20	3500 009 987	-4.7	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	-24.88	13.71	12.08	3.08	H	< 1.00	0.187	22.71	1	12
		QPSK	-24.90	13.69	12.08	3.08	H		0.186	22.69		
		16-QAM	-25.68	12.91	12.08	3.08	H		0.155	21.91		
		64-QAM	-27.51	11.08	12.08	3.08	H		0.102	20.08		
		256-QAM	-29.78	8.81	12.08	3.08	H		0.060	17.81		
3840.00		PI/2 BPSK	-26.06	13.89	11.58	3.20	H		0.169	22.27	1	1
		QPSK	-26.14	13.81	11.58	3.20	H		0.166	22.19		
		16-QAM	-26.86	13.09	11.58	3.20	H		0.140	21.47		
		64-QAM	-28.47	11.48	11.58	3.20	H		0.097	19.86		
		256-QAM	-30.62	9.33	11.58	3.20	H		0.059	17.71		
3975.00		PI/2 BPSK	-25.21	14.70	11.70	3.25	H		0.213	23.28	1	12
		QPSK	-25.08	14.83	11.70	3.25	H		0.207	23.15		
		16-QAM	-26.20	13.71	11.70	3.25	H		0.164	22.16		
		64-QAM	-27.73	12.18	11.70	3.25	H		0.116	20.63		
		256-QAM	-29.68	10.23	11.70	3.25	H		0.074	18.68		

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	-24.97	13.53	12.08	3.08	H	< 1.00	0.179	22.53	1	36
		QPSK	-25.10	13.40	12.08	3.08	H		0.174	22.40		
		16-QAM	-26.15	12.35	12.08	3.08	H		0.137	21.35		
		64-QAM	-27.52	10.98	12.08	3.08	H		0.100	19.98		
		256-QAM	-29.63	8.87	12.08	3.08	H		0.061	17.87		
3840.00		PI/2 BPSK	-25.93	14.02	11.58	3.20	H		0.174	22.40	1	36
		QPSK	-25.96	13.99	11.58	3.20	H		0.173	22.37		
		16-QAM	-27.05	12.90	11.58	3.20	H		0.134	21.28		
		64-QAM	-28.48	11.47	11.58	3.20	H		0.097	19.85		
		256-QAM	-30.54	9.41	11.58	3.20	H		0.060	17.79		
3972.48		PI/2 BPSK	-25.14	14.72	11.69	3.25	H		0.207	23.16	1	36
		QPSK	-25.15	14.71	11.69	3.25	H		0.207	23.15		
		16-QAM	-26.31	13.55	11.69	3.25	H		0.158	21.99		
		64-QAM	-27.54	12.32	11.69	3.25	H		0.119	20.76		
		256-QAM	-29.69	10.17	11.69	3.25	H		0.073	18.61		

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
3710.01		PI/2 BPSK	-24.85	13.65	12.08	3.08	H	< 1.00	0.184	22.65	1	49
		QPSK	-24.89	13.61	12.08	3.08	H		0.182	22.61		
		16-QAM	-26.08	12.42	12.08	3.08	H		0.139	21.42		
		64-QAM	-27.43	11.07	12.08	3.08	H		0.102	20.07		
		256-QAM	-29.43	9.07	12.08	3.08	H		0.064	18.07		
3840.00	Sub6 n77(78)/ 20 MHz [30 kHz]	PI/2 BPSK	-25.82	14.13	11.58	3.20	H	< 1.00	0.178	22.51	1	1
		QPSK	-25.93	14.02	11.58	3.20	H		0.174	22.40		
		16-QAM	-27.07	12.88	11.58	3.20	H		0.134	21.26		
		64-QAM	-28.11	11.84	11.58	3.20	H		0.105	20.22		
		256-QAM	-30.64	9.31	11.58	3.20	H		0.059	17.69		
3969.99		PI/2 BPSK	-25.13	14.73	11.69	3.25	H	< 1.00	0.207	23.17	1	49
		QPSK	-25.26	14.60	11.69	3.25	H		0.201	23.04		
		16-QAM	-26.15	13.71	11.69	3.25	H		0.164	22.15		
		64-QAM	-27.76	12.10	11.69	3.25	H		0.113	20.54		
		256-QAM	-29.96	9.90	11.69	3.25	H		0.068	18.34		

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	-24.74	13.83	12.08	3.11	H	< 1.00	0.191	22.80	1	63
		QPSK	-24.86	13.71	12.08	3.11	H		0.185	22.68		
		16-QAM	-25.79	12.78	12.08	3.11	H		0.150	21.75		
		64-QAM	-27.31	11.26	12.08	3.11	H		0.105	20.23		
		256-QAM	-29.45	9.12	12.08	3.11	H		0.064	18.09		
3840.00		PI/2 BPSK	-25.79	14.16	11.58	3.20	H		0.180	22.54	1	1
		QPSK	-25.84	14.11	11.58	3.20	H		0.177	22.49		
		16-QAM	-27.19	12.76	11.58	3.20	H		0.130	21.14		
		64-QAM	-28.47	11.48	11.58	3.20	H		0.097	19.86		
		256-QAM	-30.39	9.56	11.58	3.20	H		0.062	17.94		
3967.50		PI/2 BPSK	-24.90	14.96	11.69	3.25	H		0.219	23.40	1	63
		QPSK	-24.99	14.87	11.69	3.25	H		0.214	23.31		
		16-QAM	-26.02	13.84	11.69	3.25	H		0.169	22.28		
		64-QAM	-27.68	12.18	11.69	3.25	H		0.115	20.62		
		256-QAM	-30.14	9.72	11.69	3.25	H		0.065	18.16		

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	-24.70	13.87	12.08	3.11	H	< 1.00	0.192	22.84	1	76
		QPSK	-24.83	13.74	12.08	3.11	H		0.187	22.71		
		16-QAM	-25.78	12.79	12.08	3.11	H		0.150	21.76		
		64-QAM	-27.34	11.23	12.08	3.11	H		0.105	20.20		
		256-QAM	-29.30	9.27	12.08	3.11	H		0.067	18.24		
3840.00	Sub6 n77(78)/ 30 MHz [30 kHz]	PI/2 BPSK	-25.65	14.30	11.58	3.20	H	< 1.00	0.185	22.68	1	1
		QPSK	-25.89	14.06	11.58	3.20	H		0.175	22.44		
		16-QAM	-26.80	13.15	11.58	3.20	H		0.142	21.53		
		64-QAM	-28.41	11.54	11.58	3.20	H		0.098	19.92		
		256-QAM	-30.48	9.47	11.58	3.20	H		0.061	17.85		
3964.98		PI/2 BPSK	-24.93	15.00	11.67	3.24	H	< 1.00	0.220	23.43	1	76
		QPSK	-24.95	14.98	11.67	3.24	H		0.219	23.41		
		16-QAM	-26.15	13.78	11.67	3.24	H		0.166	22.21		
		64-QAM	-27.61	12.32	11.67	3.24	H		0.119	20.75		
		256-QAM	-29.87	10.06	11.67	3.24	H		0.071	18.49		

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
3720.00		PI/2 BPSK	-24.69	13.94	12.07	3.13	H	< 1.00	0.194	22.88	1	104
		QPSK	-24.74	13.89	12.07	3.13	H		0.192	22.83		
		16-QAM	-25.76	12.87	12.07	3.13	H		0.152	21.81		
		64-QAM	-27.44	11.19	12.07	3.13	H		0.103	20.13		
		256-QAM	-29.34	9.29	12.07	3.13	H		0.067	18.23		
3840.00	Sub6 n77(78)/ 40 MHz [30 kHz]	PI/2 BPSK	-25.48	14.47	11.58	3.20	H	< 1.00	0.193	22.85	1	1
		QPSK	-25.62	14.33	11.58	3.20	H		0.187	22.71		
		16-QAM	-26.87	13.08	11.58	3.20	H		0.140	21.46		
		64-QAM	-28.24	11.71	11.58	3.20	H		0.102	20.09		
		256-QAM	-30.12	9.83	11.58	3.20	H		0.066	18.21		
3960.00		PI/2 BPSK	-24.99	15.01	11.65	3.24	H	< 1.00	0.220	23.42	1	104
		QPSK	-25.13	14.87	11.65	3.24	H		0.213	23.28		
		16-QAM	-26.00	14.00	11.65	3.24	H		0.174	22.41		
		64-QAM	-27.49	12.51	11.65	3.24	H		0.124	20.92		
		256-QAM	-29.73	10.27	11.65	3.24	H		0.074	18.68		

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	-24.79	13.97	12.06	3.15	H	< 1.00	0.194	22.88	1	66
		QPSK	-24.92	13.84	12.06	3.15	H		0.188	22.75		
		16-QAM	-25.93	12.83	12.06	3.15	H		0.149	21.74		
		64-QAM	-27.23	11.53	12.06	3.15	H		0.111	20.44		
		256-QAM	-29.34	9.42	12.06	3.15	H		0.068	18.33		
3840.00	Sub6 n77(78)/ 50 MHz [30 kHz]	PI/2 BPSK	-25.47	14.48	11.58	3.20	H	< 1.00	0.193	22.86	1	1
		QPSK	-25.54	14.41	11.58	3.20	H		0.190	22.79		
		16-QAM	-26.41	13.54	11.58	3.20	H		0.156	21.92		
		64-QAM	-28.16	11.79	11.58	3.20	H		0.104	20.17		
		256-QAM	-30.08	9.87	11.58	3.20	H		0.067	18.25		
3954.99		PI/2 BPSK	-24.88	15.15	11.63	3.23	H	< 1.00	0.226	23.55	1	131
		QPSK	-25.06	14.97	11.63	3.23	H		0.217	23.37		
		16-QAM	-26.06	13.97	11.63	3.23	H		0.173	22.37		
		64-QAM	-27.44	12.59	11.63	3.23	H		0.126	20.99		
		256-QAM	-29.75	10.28	11.63	3.23	H		0.074	18.68		

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	-24.61	14.29	12.04	3.17	H	< 1.00	0.207	23.16	1	82
		QPSK	-24.65	14.25	12.04	3.17	H		0.205	23.12		
		16-QAM	-25.87	13.03	12.04	3.17	H		0.155	21.90		
		64-QAM	-27.00	11.90	12.04	3.17	H		0.119	20.77		
		256-QAM	-29.44	9.46	12.04	3.17	H		0.068	18.33		
3840.00	Sub6 n77(78)/ 60 MHz [30 kHz]	PI/2 BPSK	-25.11	14.84	11.58	3.20	H	< 1.00	0.210	23.22	1	1
		QPSK	-25.24	14.71	11.58	3.20	H		0.204	23.09		
		16-QAM	-26.41	13.54	11.58	3.20	H		0.156	21.92		
		64-QAM	-27.77	12.18	11.58	3.20	H		0.114	20.56		
		256-QAM	-29.85	10.10	11.58	3.20	H		0.071	18.48		
3949.98		PI/2 BPSK	-24.93	15.12	11.61	3.22	H	< 1.00	0.224	23.51	1	160
		QPSK	-24.96	15.09	11.61	3.22	H		0.223	23.48		
		16-QAM	-26.06	13.99	11.61	3.22	H		0.173	22.38		
		64-QAM	-27.69	12.36	11.61	3.22	H		0.119	20.75		
		256-QAM	-29.61	10.44	11.61	3.22	H		0.076	18.83		

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	Sub6 n77(78)/ 70 MHz [30 kHz]	PI/2 BPSK	-24.65	14.37	12.02	3.18	H	< 1.00	0.209	23.21	1	94
		QPSK	-24.73	14.29	12.02	3.18	H		0.206	23.13		
		16-QAM	-25.96	13.06	12.02	3.18	H		0.155	21.90		
		64-QAM	-27.38	11.64	12.02	3.18	H		0.112	20.48		
		256-QAM	-29.37	9.65	12.02	3.18	H		0.071	18.49		
3840.00		PI/2 BPSK	-24.77	15.18	11.58	3.20	H		0.227	23.56	1	1
		QPSK	-25.01	14.94	11.58	3.20	H		0.215	23.32		
		16-QAM	-26.06	13.89	11.58	3.20	H		0.169	22.27		
		64-QAM	-27.68	12.27	11.58	3.20	H		0.116	20.65		
		256-QAM	-29.67	10.28	11.58	3.20	H		0.073	18.66		
3945.00		PI/2 BPSK	-24.88	15.15	11.60	3.23	H		0.225	23.52	1	187
		QPSK	-24.95	15.08	11.60	3.23	H		0.221	23.45		
		16-QAM	-25.97	14.06	11.60	3.23	H		0.175	22.43		
		64-QAM	-27.48	12.55	11.60	3.23	H		0.124	20.92		
		256-QAM	-29.90	10.13	11.60	3.23	H		0.071	18.50		

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	-24.61	14.54	12.00	3.19	H	< 1.00	0.216	23.35	1	108
		QPSK	-24.72	14.43	12.00	3.19	H		0.211	23.24		
		16-QAM	-25.59	13.56	12.00	3.19	H		0.173	22.37		
		64-QAM	-27.33	11.82	12.00	3.19	H		0.116	20.63		
		256-QAM	-29.31	9.84	12.00	3.19	H		0.073	18.65		
3840.00	Sub6 n77(78)/ 80 MHz [30 kHz]	PI/2 BPSK	-24.64	15.31	11.58	3.20	H	< 1.00	0.234	23.69	1	1
		QPSK	-24.71	15.24	11.58	3.20	H		0.230	23.62		
		16-QAM	-25.78	14.17	11.58	3.20	H		0.180	22.55		
		64-QAM	-27.24	12.71	11.58	3.20	H		0.129	21.09		
		256-QAM	-29.42	10.53	11.58	3.20	H		0.078	18.91		
3939.99		PI/2 BPSK	-24.80	15.20	11.58	3.23	H	< 1.00	0.226	23.55	1	215
		QPSK	-24.93	15.07	11.58	3.23	H		0.220	23.42		
		16-QAM	-25.78	14.22	11.58	3.23	H		0.181	22.57		
		64-QAM	-27.51	12.49	11.58	3.23	H		0.121	20.84		
		256-QAM	-29.38	10.62	11.58	3.23	H		0.079	18.97		

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	Sub6 n77(78)/ 90 MHz [30 kHz]	PI/2 BPSK	-24.41	14.76	11.97	3.18	H	< 1.00	0.226	23.55	1	243
		QPSK	-24.52	14.65	11.97	3.18	H		0.221	23.44		
		16-QAM	-25.54	13.63	11.97	3.18	H		0.175	22.42		
		64-QAM	-27.04	12.13	11.97	3.18	H		0.124	20.92		
		256-QAM	-29.11	10.06	11.97	3.18	H		0.077	18.85		
3840.00		PI/2 BPSK	-24.25	15.70	11.58	3.20	H		0.256	24.08	1	1
		QPSK	-24.43	15.52	11.58	3.20	H		0.245	23.90		
		16-QAM	-25.40	14.55	11.58	3.20	H		0.196	22.93		
		64-QAM	-27.04	12.91	11.58	3.20	H		0.135	21.29		
		256-QAM	-29.14	10.81	11.58	3.20	H		0.083	19.19		
3934.98		PI/2 BPSK	-24.70	15.25	11.56	3.24	H		0.228	23.57	1	243
		QPSK	-24.80	15.15	11.56	3.24	H		0.222	23.47		
		16-QAM	-25.89	14.06	11.56	3.24	H		0.173	22.38		
		64-QAM	-27.38	12.57	11.56	3.24	H		0.123	20.89		
		256-QAM	-29.68	10.27	11.56	3.24	H		0.072	18.59		

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	-24.29	14.90	11.95	3.17	H	< 1.00	0.233	23.68	1	271
		QPSK	-24.43	14.76	11.95	3.17	H		0.226	23.54		
		16-QAM	-25.40	13.79	11.95	3.17	H		0.181	22.57		
		64-QAM	-26.87	12.32	11.95	3.17	H		0.129	21.10		
		256-QAM	-28.95	10.24	11.95	3.17	H		0.080	19.02		
3840.00		PI/2 BPSK	-24.16	15.79	11.58	3.20	H		0.261	24.17	1	1
		QPSK	-24.43	15.52	11.58	3.20	H		0.245	23.90		
		16-QAM	-25.29	14.66	11.58	3.20	H		0.201	23.04		
		64-QAM	-26.91	13.04	11.58	3.20	H		0.139	21.42		
		256-QAM	-28.84	11.11	11.58	3.20	H		0.089	19.49		
3930.00		PI/2 BPSK	-24.63	15.27	11.54	3.26	H		0.226	23.55	1	271
		QPSK	-24.71	15.19	11.54	3.26	H		0.222	23.47		
		16-QAM	-25.74	14.16	11.54	3.26	H		0.175	22.44		
		64-QAM	-27.46	12.44	11.54	3.26	H		0.118	20.72		
		256-QAM	-29.33	10.57	11.54	3.26	H		0.077	18.85		

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	-53.15	11.52	-45.85	4.60	V	-38.93	-13.00	1	271
	11 250.00	-54.61	12.05	-43.50	5.89	V	-37.34	-13.00		
	15 000.00	-58.83	14.31	-51.67	6.78	V	-44.14	-13.00		
656000 (3840.00)	7 680.00	-51.94	11.47	-44.63	4.70	V	-37.86	-13.00	1	1
	11 520.00	-52.27	12.34	-40.96	5.87	V	-34.49	-13.00		
	15 360.00	-57.08	15.37	-50.50	6.88	H	-42.01	-13.00		
662000 (3930.00)	7 860.00	-49.74	11.07	-41.91	4.75	H	-35.59	-13.00	1	271
	11 790.00	-52.63	12.68	-43.20	6.02	V	-36.54	-13.00		
	15 720.00	-61.95	16.08	-55.65	6.95	H	-46.52	-13.00		

9.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n77(78)	10 MHz	3840.00	BPSK	Full RB	0	4.24
			QPSK			5.37
			16-QAM			6.17
			64-QAM			6.43
			256-QAM			6.47
	15 MHz		BPSK			4.23
			QPSK			5.38
			16-QAM			6.12
			64-QAM			6.28
			256-QAM			6.34
	20 MHz		BPSK			4.36
			QPSK			5.45
			16-QAM			6.23
			64-QAM			6.44
			256-QAM			6.53
	25 MHz		BPSK			4.40
			QPSK			5.51
			16-QAM			6.20
			64-QAM			6.42
			256-QAM			6.34
	30 MHz		BPSK			4.41
			QPSK			5.47
			16-QAM			6.19
			64-QAM			6.48
			256-QAM			6.33
	40 MHz		BPSK			4.28
			QPSK			5.41
			16-QAM			6.17
			64-QAM			6.37
			256-QAM			6.50
	50 MHz		BPSK			4.14
			QPSK			5.32
			16-QAM			6.11
			64-QAM			6.29
			256-QAM			6.27
	60 MHz		BPSK			5.33
			QPSK			5.63
			16-QAM			6.29
			64-QAM			6.41
			256-QAM			6.43
	70 MHz		BPSK			4.40
			QPSK			5.34
			16-QAM			6.06
			64-QAM			6.26
			256-QAM			6.30
	80 MHz		BPSK			4.15
			QPSK			5.26

			16-QAM			6.09
			64-QAM			6.29
			256-QAM			6.27
	90 MHz		BPSK			4.10
			QPSK			5.27
			16-QAM			6.13
			64-QAM			6.26
			256-QAM			6.33
	100 MHz		BPSK			4.74
			QPSK			5.23
			16-QAM			6.02
			64-QAM			6.19
			256-QAM			6.29

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	8.6231
			QPSK			8.6680
			16-QAM			8.6596
			64-QAM			8.6427
			256-QAM			8.6829
	15 MHz		BPSK			12.969
			QPSK			12.932
			16-QAM			12.926
			64-QAM			12.926
			256-QAM			12.961
	20 MHz		BPSK			17.974
			QPSK			18.002
			16-QAM			17.957
			64-QAM			17.984
			256-QAM			17.940
	25 MHz		BPSK			22.979
			QPSK			23.001
			16-QAM			22.973
			64-QAM			22.974
			256-QAM			22.939
	30 MHz		BPSK			26.961
			QPSK			26.957
			16-QAM			26.885
			64-QAM			26.912
			256-QAM			26.983
	40 MHz		BPSK			35.958
			QPSK			36.002
			16-QAM			35.884
			64-QAM			35.815
			256-QAM			35.784
	50 MHz		BPSK			45.845
			QPSK			45.962
			16-QAM			45.810
			64-QAM			45.783
			256-QAM			45.956
	60 MHz		BPSK			58.254
			QPSK			58.112
			16-QAM			58.053
			64-QAM			57.966
			256-QAM			58.018
	70 MHz		BPSK			64.660
			QPSK			64.733
			16-QAM			64.518
			64-QAM			64.530
			256-QAM			64.637
	80 MHz		BPSK			77.408
			QPSK			77.283

			16-QAM			77.428
			64-QAM			77.565
			256-QAM			77.475
	90 MHz		BPSK			86.951
			QPSK			87.226
			16-QAM			86.962
			64-QAM			86.821
			256-QAM			87.130
	100 MHz		BPSK			96.692
			QPSK			96.504
			16-QAM			96.368
			64-QAM			96.588
			256-QAM			96.793

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	6.0120	30.315	-61.708	-31.393	-13.00
		3840.000	5.2244	30.315	-61.406	-31.091	
		3975.000	4.9352	29.722	-61.002	-31.280	
	15	3707.520	9.8405	30.315	-60.806	-30.491	
		3840.000	7.1984	30.315	-61.776	-31.461	
		3972.480	4.9352	29.722	-61.072	-31.350	
	20	3710.010	4.9552	29.722	-60.784	-31.062	
		3840.000	4.9253	29.722	-62.036	-32.314	
		3969.990	7.2283	30.315	-61.875	-31.560	
	25	3712.500	8.3550	30.315	-61.067	-30.752	
		3840.000	4.9452	29.722	-61.936	-32.214	
		3967.500	5.2144	30.315	-62.107	-31.792	
	30	3715.020	9.4616	30.315	-61.993	-31.678	
		3840.000	4.9153	29.722	-61.095	-31.373	
		3964.980	4.8754	29.722	-62.435	-32.713	
	40	3720.000	9.7707	30.315	-62.255	-31.940	
		3840.000	5.9921	30.315	-60.931	-30.616	
		3960.000	6.0020	30.315	-61.771	-31.456	
	50	3725.010	5.9921	30.315	-62.465	-32.150	
		3840.000	6.0220	30.315	-60.486	-30.171	
		3954.990	4.9452	29.722	-61.631	-31.909	
	60	3730.020	4.9153	29.722	-60.586	-30.864	
		3840.000	5.9821	30.315	-61.298	-30.983	
		3949.980	9.4517	30.315	-61.422	-31.107	
	70	3735.000	4.9053	29.722	-60.765	-31.043	
		3840.000	5.2244	30.315	-60.650	-30.335	
		3945.000	7.5274	30.315	-61.755	-31.440	
	80	3740.010	4.9352	29.722	-61.217	-31.495	
		3840.000	7.1984	30.315	-61.877	-31.562	
		3939.990	7.9661	30.315	-62.156	-31.841	
	90	3745.020	8.3450	30.315	-59.749	-29.434	
		3840.000	4.9452	29.722	-61.396	-31.674	
		3934.980	4.9751	29.722	-61.611	-31.889	
	100	3750.000	4.5664	29.722	-61.524	-31.802	
		3840.000	8.1157	30.315	-61.669	-31.354	
		3930.000	5.2643	30.315	-61.159	-30.844	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 544 ~ 615.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
- Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter
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 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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 999 998	0.0	0.000 000	0.000
	100 %	-30	3704 999 995	-2.1	0.000 000	-0.001
	100 %	-20	3704 999 996	-1.1	0.000 000	0.000
	100 %	-10	3704 999 995	-2.1	0.000 000	-0.001
	100 %	0	3704 999 997	-0.1	0.000 000	0.000
	100 %	+10	3704 999 995	-2.8	0.000 000	-0.001
	100 %	+30	3704 999 996	-1.5	0.000 000	0.000
	100 %	+40	3704 999 996	-1.8	0.000 000	0.000
	100 %	+50	3704 999 994	-3.8	0.000 000	-0.001
	Batt. Endpoint	+20	3704 999 996	-1.8	0.000 000	0.000
3975.000	100 %	+20(Ref)	3974 999 988	0.0	0.000 000	0.000
	100 %	-30	3974 999 984	-4.2	0.000 000	-0.001
	100 %	-20	3974 999 983	-5.4	0.000 000	-0.001
	100 %	-10	3974 999 985	-3.3	0.000 000	-0.001
	100 %	0	3974 999 983	-4.8	0.000 000	-0.001
	100 %	+10	3974 999 984	-4.0	0.000 000	-0.001
	100 %	+30	3974 999 990	1.8	0.000 000	0.000
	100 %	+40	3974 999 988	0.3	0.000 000	0.000
	100 %	+50	3974 999 987	-1.0	0.000 000	0.000
	Batt. Endpoint	+20	3974 999 983	-5.2	0.000 000	-0.001

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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 519 995	-0.9	0.000 000	0.000
	100 %	-20	3707 519 992	-3.9	0.000 000	-0.001
	100 %	-10	3707 519 990	-5.1	0.000 000	-0.001
	100 %	0	3707 519 991	-4.4	0.000 000	-0.001
	100 %	+10	3707 519 990	-5.1	0.000 000	-0.001
	100 %	+30	3707 519 991	-4.5	0.000 000	-0.001
	100 %	+40	3707 519 988	-7.0	0.000 000	-0.002
	100 %	+50	3707 519 991	-4.3	0.000 000	-0.001
	Batt. Endpoint	+20	3707 519 991	-4.2	0.000 000	-0.001
3972.480	100 %	+20(Ref)	3972 479 990	0.0	0.000 000	0.000
	100 %	-30	3972 479 985	-5.3	0.000 000	-0.001
	100 %	-20	3972 479 983	-6.9	0.000 000	-0.002
	100 %	-10	3972 479 984	-6.7	0.000 000	-0.002
	100 %	0	3972 479 977	-13.2	0.000 000	-0.003
	100 %	+10	3972 479 983	-6.9	0.000 000	-0.002
	100 %	+30	3972 479 984	-5.8	0.000 000	-0.001
	100 %	+40	3972 479 979	-10.8	0.000 000	-0.003
	100 %	+50	3972 479 986	-4.7	0.000 000	-0.001
	Batt. Endpoint	+20	3972 479 982	-8.4	0.000 000	-0.002

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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 009 999	0.0	0.000 000	0.000
	100 %	-30	3710 009 998	-1.3	0.000 000	0.000
	100 %	-20	3710 009 998	-1.9	0.000 000	-0.001
	100 %	-10	3710 009 997	-2.2	0.000 000	-0.001
	100 %	0	3710 009 995	-4.1	0.000 000	-0.001
	100 %	+10	3710 009 999	-0.5	0.000 000	0.000
	100 %	+30	3710 009 998	-1.8	0.000 000	0.000
	100 %	+40	3710 009 998	-1.7	0.000 000	0.000
	100 %	+50	3710 009 997	-2.0	0.000 000	-0.001
	Batt. Endpoint	+20	3710 009 997	-2.3	0.000 000	-0.001
3969.990	100 %	+20(Ref)	3969 989 994	0.0	0.000 000	0.000
	100 %	-30	3969 989 989	-5.4	0.000 000	-0.001
	100 %	-20	3969 989 986	-8.7	0.000 000	-0.002
	100 %	-10	3969 989 983	-11.5	0.000 000	-0.003
	100 %	0	3969 989 989	-4.9	0.000 000	-0.001
	100 %	+10	3969 989 990	-4.0	0.000 000	-0.001
	100 %	+30	3969 989 985	-9.6	0.000 000	-0.002
	100 %	+40	3969 989 989	-5.6	0.000 000	-0.001
	100 %	+50	3969 989 989	-4.9	0.000 000	-0.001
	Batt. Endpoint	+20	3969 989 985	-8.9	0.000 000	-0.002

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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 499 994	0.0	0.000 000	0.000
	100 %	-30	3712 499 991	-3.8	0.000 000	-0.001
	100 %	-20	3712 499 985	-9.1	0.000 000	-0.002
	100 %	-10	3712 499 989	-5.5	0.000 000	-0.001
	100 %	0	3712 499 990	-4.7	0.000 000	-0.001
	100 %	+10	3712 499 990	-4.2	0.000 000	-0.001
	100 %	+30	3712 499 989	-5.5	0.000 000	-0.001
	100 %	+40	3712 499 991	-3.2	0.000 000	-0.001
	100 %	+50	3712 499 990	-4.7	0.000 000	-0.001
	Batt. Endpoint	+20	3712 499 989	-5.5	0.000 000	-0.001
3967.500	100 %	+20(Ref)	3967 499 995	0.0	0.000 000	0.000
	100 %	-30	3967 499 985	-9.9	0.000 000	-0.002
	100 %	-20	3967 499 987	-8.7	0.000 000	-0.002
	100 %	-10	3967 499 988	-7.0	0.000 000	-0.002
	100 %	0	3967 499 989	-6.0	0.000 000	-0.002
	100 %	+10	3967 499 997	1.5	0.000 000	0.000
	100 %	+30	3967 499 989	-6.7	0.000 000	-0.002
	100 %	+40	3967 499 992	-2.9	0.000 000	-0.001
	100 %	+50	3967 499 983	-12.5	0.000 000	-0.003
	Batt. Endpoint	+20	3967 499 990	-5.2	0.000 000	-0.001

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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 019 988	0.0	0.000 000	0.000
	100 %	-30	3715 019 975	-13.1	0.000 000	-0.004
	100 %	-20	3715 019 982	-5.5	0.000 000	-0.001
	100 %	-10	3715 019 973	-14.9	0.000 000	-0.004
	100 %	0	3715 019 980	-7.8	0.000 000	-0.002
	100 %	+10	3715 019 972	-15.2	0.000 000	-0.004
	100 %	+30	3715 019 982	-5.3	0.000 000	-0.001
	100 %	+40	3715 019 972	-16.1	0.000 000	-0.004
	100 %	+50	3715 019 979	-9.0	0.000 000	-0.002
	Batt. Endpoint	+20	3715 019 975	-12.2	0.000 000	-0.003
3964.980	100 %	+20(Ref)	3964 979 998	0.0	0.000 000	0.000
	100 %	-30	3964 979 989	-8.9	0.000 000	-0.002
	100 %	-20	3964 979 998	0.0	0.000 000	0.000
	100 %	-10	3964 980 000	2.0	0.000 000	0.000
	100 %	0	3964 979 993	-5.2	0.000 000	-0.001
	100 %	+10	3964 979 996	-2.0	0.000 000	0.000
	100 %	+30	3964 979 992	-6.2	0.000 000	-0.002
	100 %	+40	3964 979 990	-8.3	0.000 000	-0.002
	100 %	+50	3964 980 000	2.1	0.000 000	0.001
	Batt. Endpoint	+20	3964 979 999	0.6	0.000 000	0.000

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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 999 988	0.0	0.000 000	0.000
	100 %	-30	3719 999 978	-10.4	0.000 000	-0.003
	100 %	-20	3719 999 980	-8.2	0.000 000	-0.002
	100 %	-10	3719 999 984	-4.2	0.000 000	-0.001
	100 %	0	3719 999 981	-7.4	0.000 000	-0.002
	100 %	+10	3719 999 983	-4.9	0.000 000	-0.001
	100 %	+30	3719 999 979	-8.9	0.000 000	-0.002
	100 %	+40	3719 999 981	-6.9	0.000 000	-0.002
	100 %	+50	3719 999 983	-5.1	0.000 000	-0.001
	Batt. Endpoint	+20	3719 999 984	-4.5	0.000 000	-0.001
3960.000	100 %	+20(Ref)	3959 999 992	0.0	0.000 000	0.000
	100 %	-30	3959 999 986	-6.5	0.000 000	-0.002
	100 %	-20	3959 999 986	-5.9	0.000 000	-0.001
	100 %	-10	3959 999 984	-8.4	0.000 000	-0.002
	100 %	0	3959 999 985	-7.1	0.000 000	-0.002
	100 %	+10	3959 999 989	-2.8	0.000 000	-0.001
	100 %	+30	3959 999 987	-5.2	0.000 000	-0.001
	100 %	+40	3959 999 986	-5.9	0.000 000	-0.001
	100 %	+50	3959 999 991	-1.2	0.000 000	0.000
	Batt. Endpoint	+20	3959 999 994	2.4	0.000 000	0.001

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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 009 999	0.0	0.000 000	0.000
	100 %	-30	3725 009 997	-1.6	0.000 000	0.000
	100 %	-20	3725 009 995	-3.7	0.000 000	-0.001
	100 %	-10	3725 009 992	-7.3	0.000 000	-0.002
	100 %	0	3725 009 997	-1.6	0.000 000	0.000
	100 %	+10	3725 009 995	-3.4	0.000 000	-0.001
	100 %	+30	3725 009 995	-4.4	0.000 000	-0.001
	100 %	+40	3725 009 990	-9.3	0.000 000	-0.002
	100 %	+50	3725 009 997	-1.6	0.000 000	0.000
	Batt. Endpoint	+20	3725 009 992	-7.1	0.000 000	-0.002
3954.990	100 %	+20(Ref)	3954 989 994	0.0	0.000 000	0.000
	100 %	-30	3954 989 989	-4.9	0.000 000	-0.001
	100 %	-20	3954 989 984	-10.7	0.000 000	-0.003
	100 %	-10	3954 989 986	-8.7	0.000 000	-0.002
	100 %	0	3954 989 983	-10.8	0.000 000	-0.003
	100 %	+10	3954 989 989	-5.3	0.000 000	-0.001
	100 %	+30	3954 989 984	-10.4	0.000 000	-0.003
	100 %	+40	3954 989 988	-6.1	0.000 000	-0.002
	100 %	+50	3954 989 988	-6.0	0.000 000	-0.002
	Batt. Endpoint	+20	3954 989 987	-7.2	0.000 000	-0.002

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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 019 996	0.0	0.000 000	0.000
	100 %	-30	3730 019 992	-3.3	0.000 000	-0.001
	100 %	-20	3730 019 991	-4.3	0.000 000	-0.001
	100 %	-10	3730 019 990	-6.1	0.000 000	-0.002
	100 %	0	3730 019 991	-4.1	0.000 000	-0.001
	100 %	+10	3730 019 995	-0.8	0.000 000	0.000
	100 %	+30	3730 019 992	-3.9	0.000 000	-0.001
	100 %	+40	3730 019 994	-1.2	0.000 000	0.000
	100 %	+50	3730 019 994	-2.0	0.000 000	-0.001
	Batt. Endpoint	+20	3730 019 992	-3.4	0.000 000	-0.001
3949.980	100 %	+20(Ref)	3949 979 995	0.0	0.000 000	0.000
	100 %	-30	3949 979 992	-2.7	0.000 000	-0.001
	100 %	-20	3949 979 992	-3.2	0.000 000	-0.001
	100 %	-10	3949 979 993	-2.0	0.000 000	-0.001
	100 %	0	3949 979 991	-3.8	0.000 000	-0.001
	100 %	+10	3949 979 989	-5.6	0.000 000	-0.001
	100 %	+30	3949 979 990	-4.5	0.000 000	-0.001
	100 %	+40	3949 979 991	-3.5	0.000 000	-0.001
	100 %	+50	3949 979 993	-1.3	0.000 000	0.000
	Batt. Endpoint	+20	3949 979 988	-6.7	0.000 000	-0.002

- ▣ BandWidth: 70 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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)	3734 999 990	0.0	0.000 000	0.000
	100 %	-30	3734 999 983	-7.5	0.000 000	-0.002
	100 %	-20	3734 999 980	-9.8	0.000 000	-0.003
	100 %	-10	3734 999 983	-7.0	0.000 000	-0.002
	100 %	0	3734 999 980	-10.3	0.000 000	-0.003
	100 %	+10	3734 999 981	-9.2	0.000 000	-0.002
	100 %	+30	3734 999 982	-7.7	0.000 000	-0.002
	100 %	+40	3734 999 979	-11.2	0.000 000	-0.003
	100 %	+50	3734 999 980	-9.9	0.000 000	-0.003
	Batt. Endpoint	+20	3734 999 982	-7.8	0.000 000	-0.002
3945.000	100 %	+20(Ref)	3944 999 997	0.0	0.000 000	0.000
	100 %	-30	3944 999 992	-4.4	0.000 000	-0.001
	100 %	-20	3944 999 984	-12.8	0.000 000	-0.003
	100 %	-10	3944 999 991	-5.6	0.000 000	-0.001
	100 %	0	3944 999 990	-6.4	0.000 000	-0.002
	100 %	+10	3944 999 991	-5.4	0.000 000	-0.001
	100 %	+30	3944 999 993	-3.7	0.000 000	-0.001
	100 %	+40	3944 999 989	-7.3	0.000 000	-0.002
	100 %	+50	3944 999 991	-6.2	0.000 000	-0.002
	Batt. Endpoint	+20	3944 999 992	-4.8	0.000 000	-0.001

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 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 009 997	0.0	0.000 000	0.000
	100 %	-30	3740 009 986	-10.6	0.000 000	-0.003
	100 %	-20	3740 009 987	-9.7	0.000 000	-0.003
	100 %	-10	3740 009 995	-2.3	0.000 000	-0.001
	100 %	0	3740 009 988	-8.9	0.000 000	-0.002
	100 %	+10	3740 009 982	-14.6	0.000 000	-0.004
	100 %	+30	3740 009 986	-10.9	0.000 000	-0.003
	100 %	+40	3740 009 989	-8.0	0.000 000	-0.002
	100 %	+50	3740 009 996	-0.7	0.000 000	0.000
	Batt. Endpoint	+20	3740 009 988	-8.5	0.000 000	-0.002
3939.990	100 %	+20(Ref)	3939 989 997	0.0	0.000 000	0.000
	100 %	-30	3939 989 997	-0.2	0.000 000	0.000
	100 %	-20	3939 989 995	-2.4	0.000 000	-0.001
	100 %	-10	3939 989 986	-10.6	0.000 000	-0.003
	100 %	0	3939 989 993	-4.3	0.000 000	-0.001
	100 %	+10	3939 989 989	-8.0	0.000 000	-0.002
	100 %	+30	3939 989 993	-3.7	0.000 000	-0.001
	100 %	+40	3939 989 995	-2.2	0.000 000	-0.001
	100 %	+50	3939 989 992	-4.5	0.000 000	-0.001
	Batt. Endpoint	+20	3939 989 997	-0.4	0.000 000	0.000

- ▣ BandWidth: 90 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

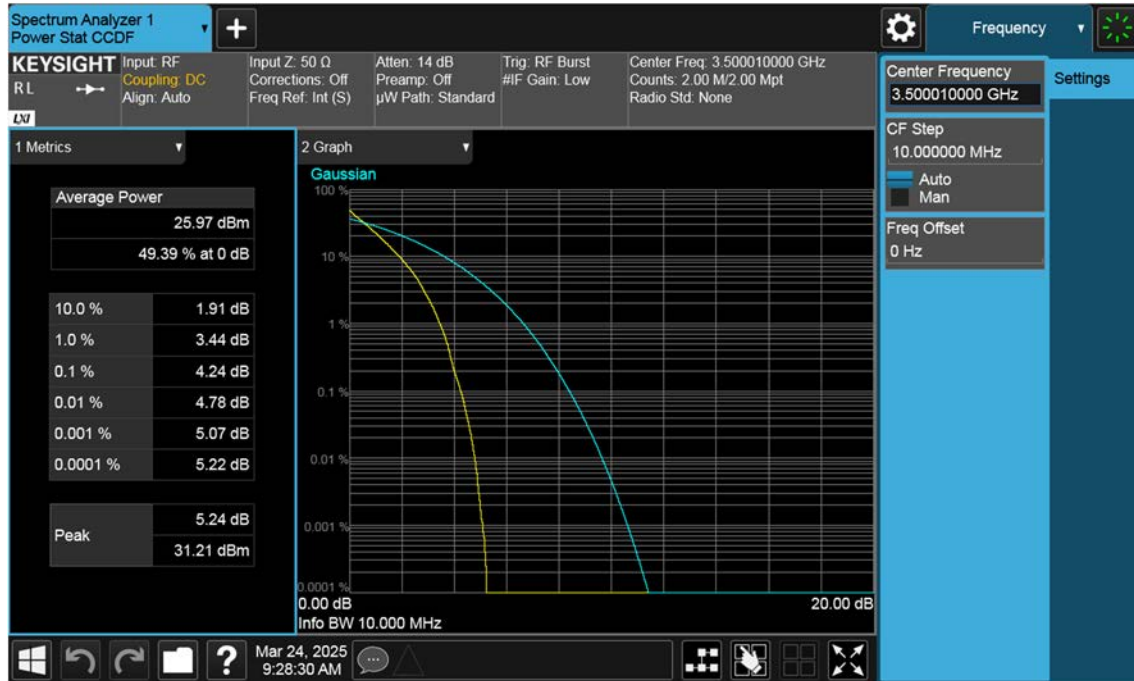
Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3745.020	100 %	+20(Ref)	3745 019 995	0.0	0.000 000	0.000
	100 %	-30	3745 019 992	-3.0	0.000 000	-0.001
	100 %	-20	3745 019 991	-4.6	0.000 000	-0.001
	100 %	-10	3745 019 982	-13.1	0.000 000	-0.003
	100 %	0	3745 019 986	-9.1	0.000 000	-0.002
	100 %	+10	3745 019 984	-11.3	0.000 000	-0.003
	100 %	+30	3745 019 983	-12.3	0.000 000	-0.003
	100 %	+40	3745 019 991	-3.8	0.000 000	-0.001
	100 %	+50	3745 019 987	-8.3	0.000 000	-0.002
	Batt. Endpoint	+20	3745 019 978	-17.5	0.000 000	-0.005
3934.980	100 %	+20(Ref)	3934 980 001	0.0	0.000 000	0.000
	100 %	-30	3934 980 005	4.0	0.000 000	0.001
	100 %	-20	3934 979 998	-2.6	0.000 000	-0.001
	100 %	-10	3934 980 006	5.0	0.000 000	0.001
	100 %	0	3934 980 005	4.0	0.000 000	0.001
	100 %	+10	3934 980 002	1.3	0.000 000	0.000
	100 %	+30	3934 980 001	-0.1	0.000 000	0.000
	100 %	+40	3934 980 004	2.7	0.000 000	0.001
	100 %	+50	3934 980 009	8.3	0.000 000	0.002
	Batt. Endpoint	+20	3934 980 004	3.3	0.000 000	0.001

- ▣ BandWidth: 100 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

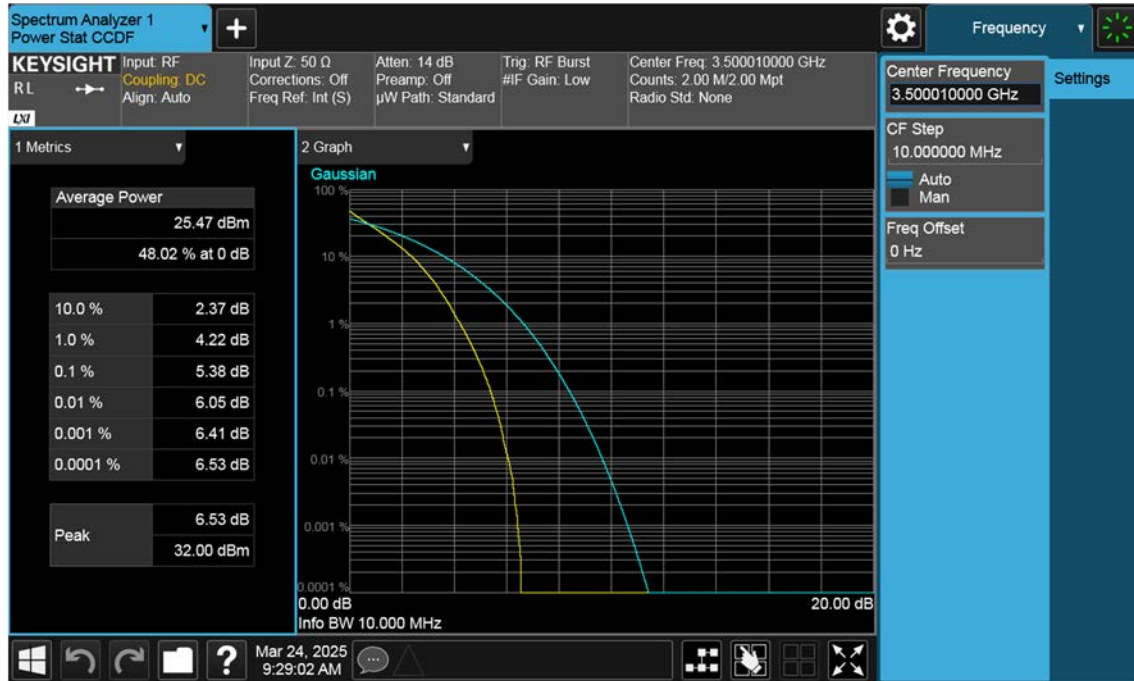
Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3750.000	100 %	+20(Ref)	3749 999 997	0.0	0.000 000	0.000
	100 %	-30	3749 999 995	-1.5	0.000 000	0.000
	100 %	-20	3749 999 994	-2.5	0.000 000	-0.001
	100 %	-10	3749 999 988	-8.9	0.000 000	-0.002
	100 %	0	3749 999 992	-4.7	0.000 000	-0.001
	100 %	+10	3749 999 995	-2.1	0.000 000	-0.001
	100 %	+30	3749 999 999	2.5	0.000 000	0.001
	100 %	+40	3749 999 992	-4.7	0.000 000	-0.001
	100 %	+50	3749 999 990	-6.8	0.000 000	-0.002
	Batt. Endpoint	+20	3749 999 993	-3.6	0.000 000	-0.001
3930.000	100 %	+20(Ref)	3930 000 002	0.0	0.000 000	0.000
	100 %	-30	3929 999 996	-5.9	0.000 000	-0.002
	100 %	-20	3930 000 003	1.2	0.000 000	0.000
	100 %	-10	3930 000 000	-2.1	0.000 000	-0.001
	100 %	0	3930 000 000	-1.7	0.000 000	0.000
	100 %	+10	3930 000 005	3.8	0.000 000	0.001
	100 %	+30	3929 999 999	-2.4	0.000 000	-0.001
	100 %	+40	3930 000 001	-1.0	0.000 000	0.000
	100 %	+50	3929 999 993	-8.3	0.000 000	-0.002
	Batt. Endpoint	+20	3929 999 997	-5.0	0.000 000	-0.001

10. TEST PLOTS(3450 MHz - 3550 MHz)

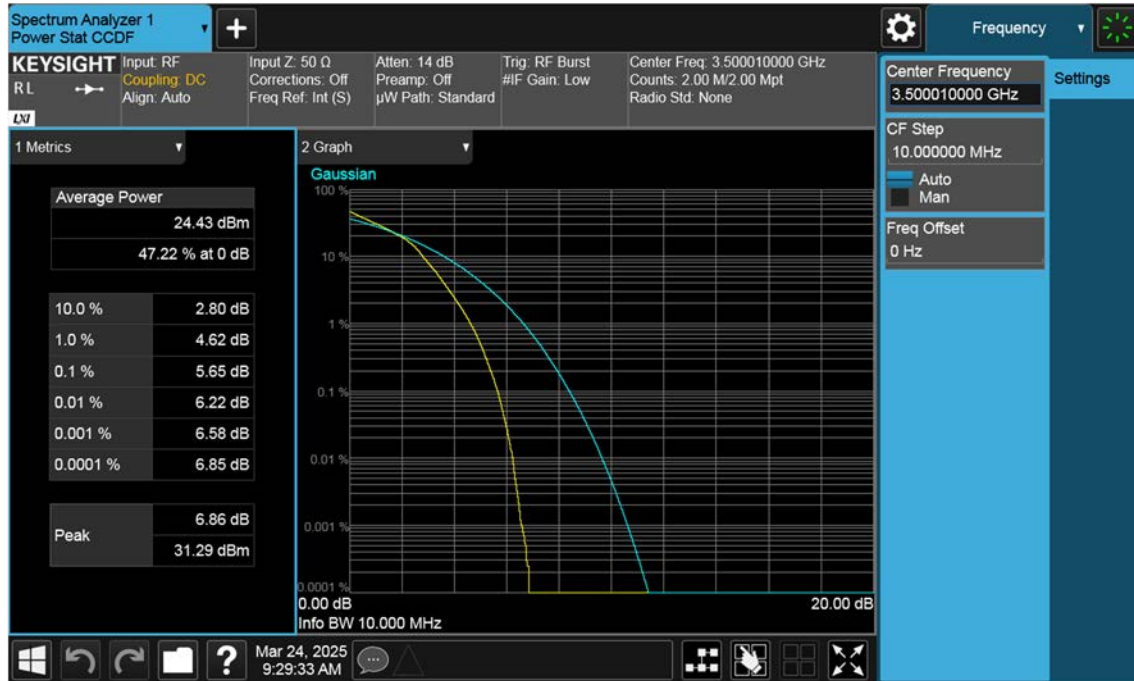
n77(3450~3550 MHz)_10 M_PAR_Mid_BPSK_FullRB



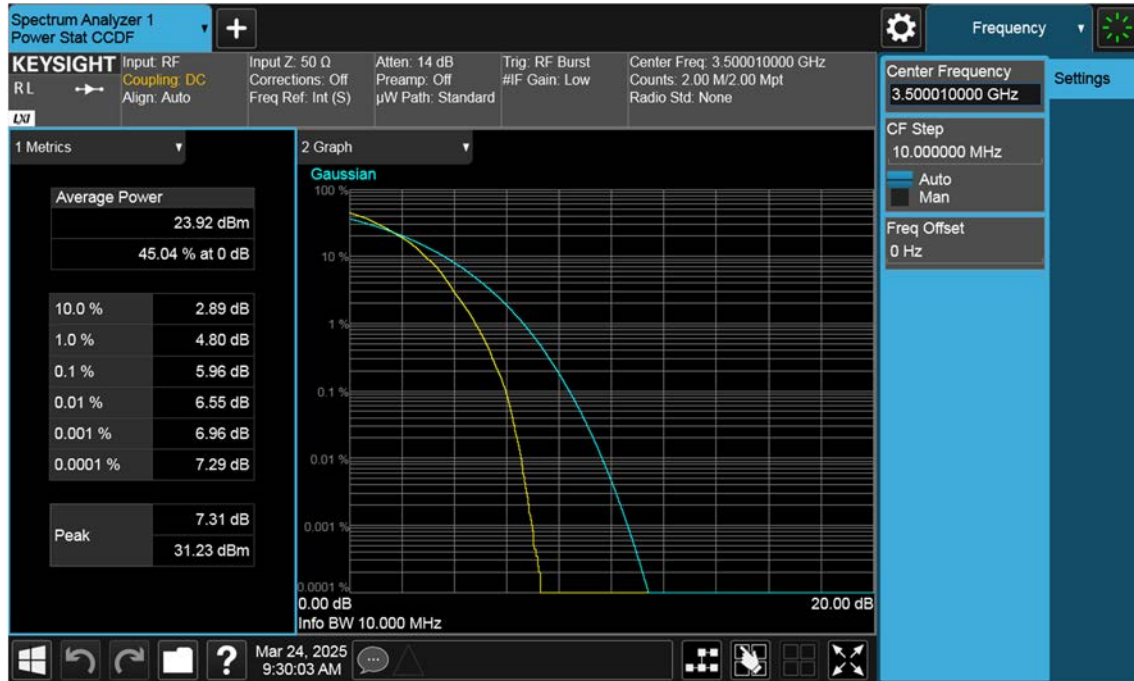
n77(3450~3550 MHz)_10 M_PAR_Mid_QPSK_FullRB



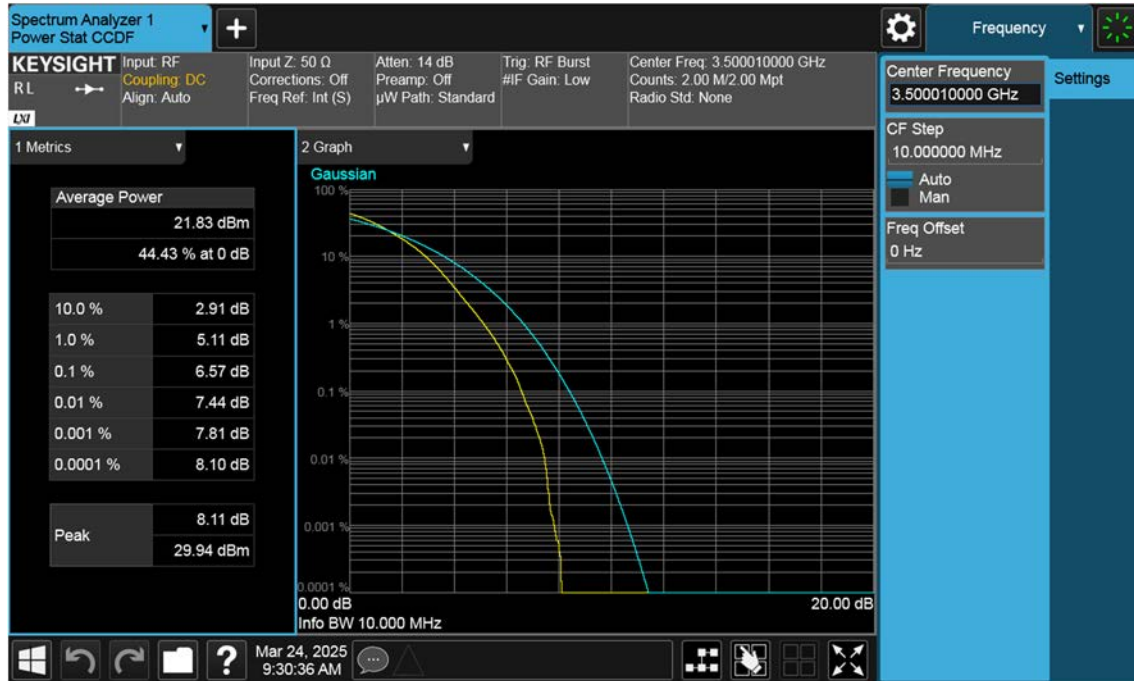
n77(3450~3550 MHz)_10 M_PAR_Mid_16QAM_FullRB



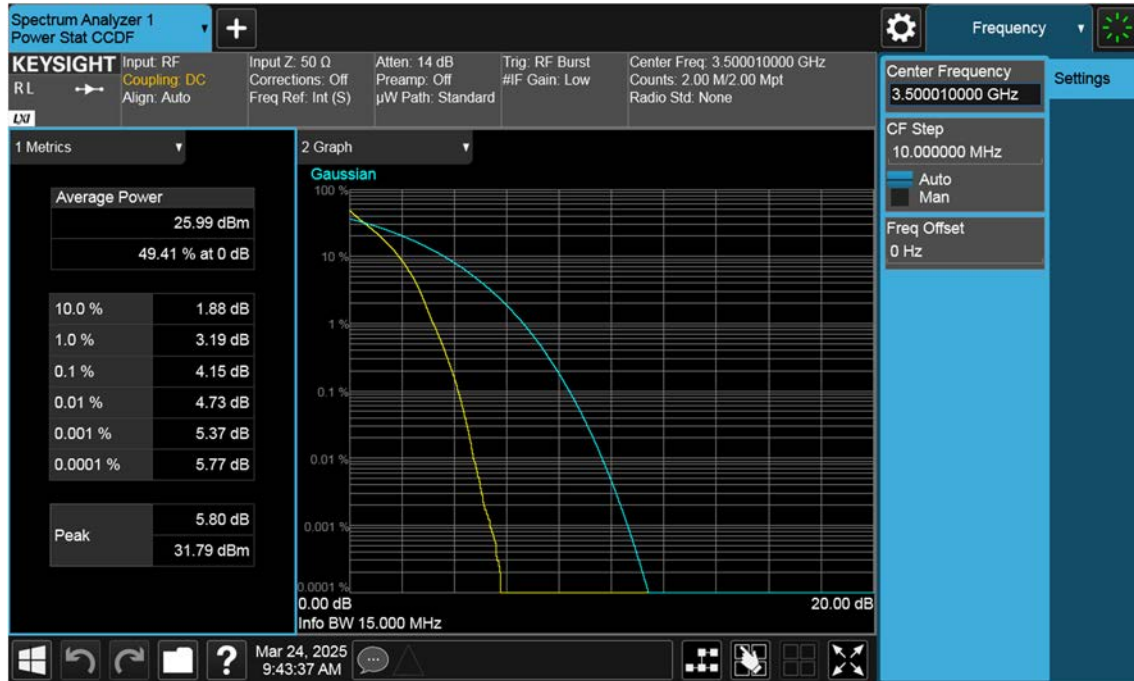
n77(3450~3550 MHz)_10 M_PAR_Mid_64QAM_FullRB



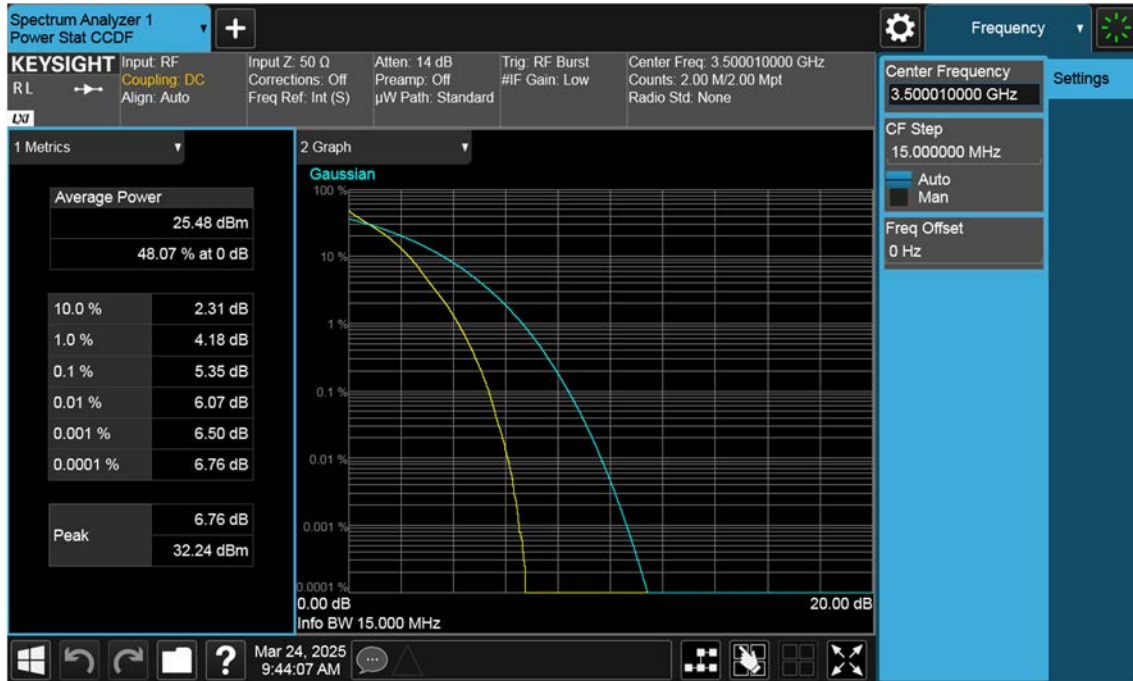
n77(3450~3550 MHz)_10 M_PAR_Mid_256QAM_FullRB



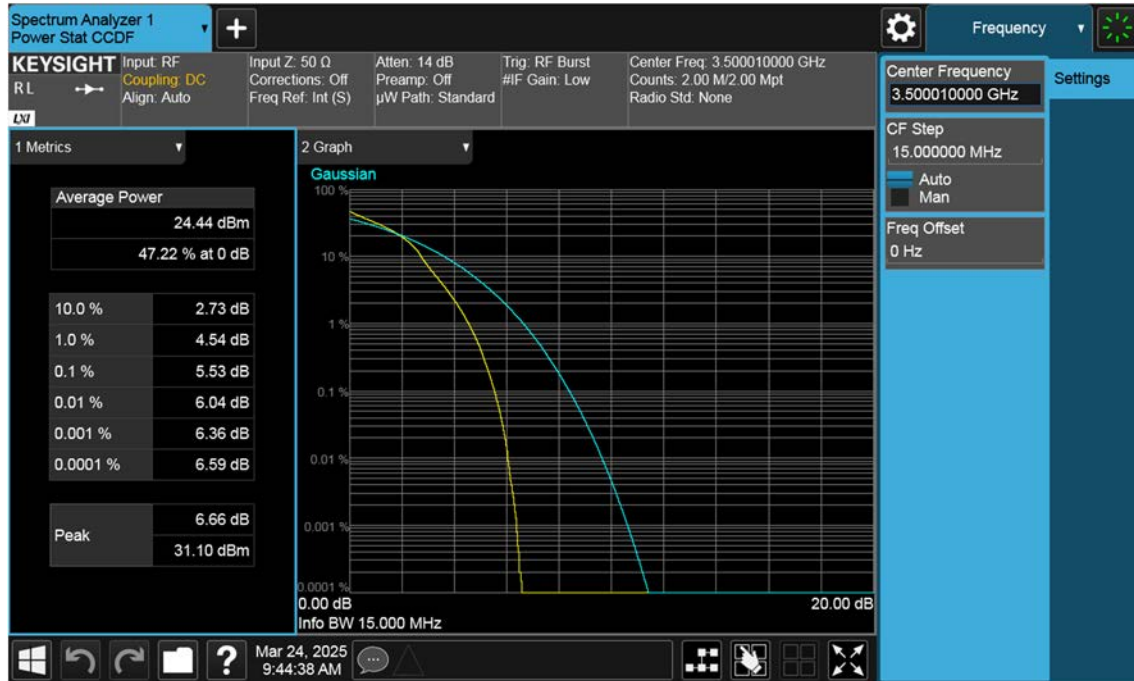
n77(3450~3550 MHz)_15 M_PAR_Mid_BPSK_FullRB



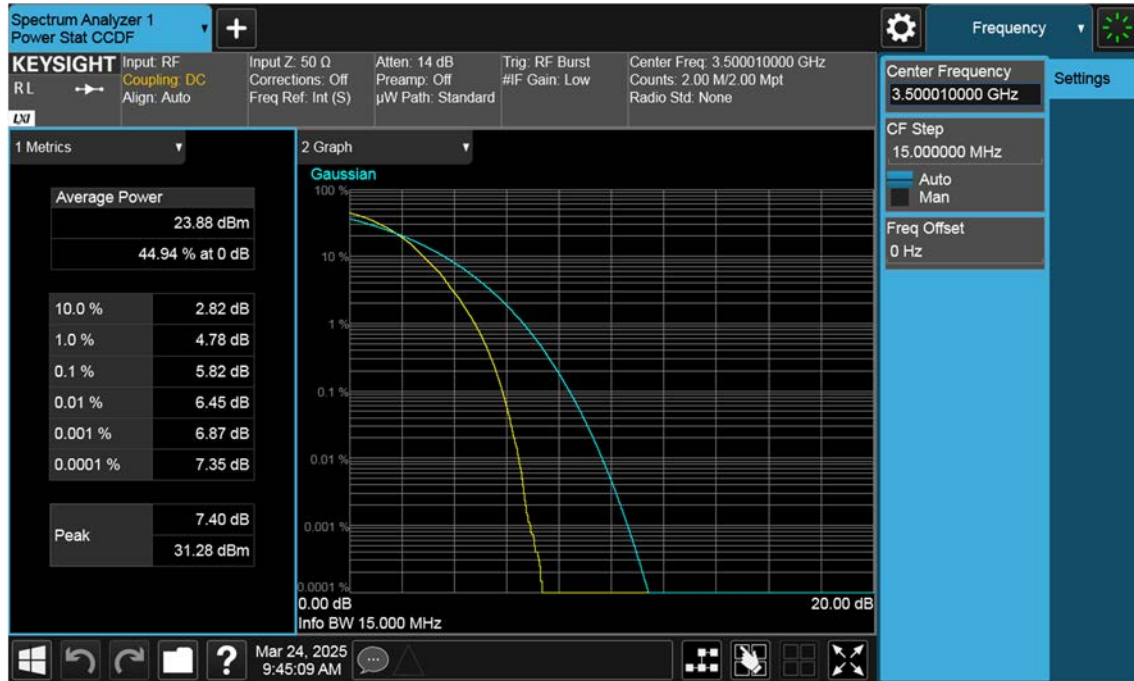
n77(3450~3550 MHz)_15 M_PAR_Mid_QPSK_FullRB



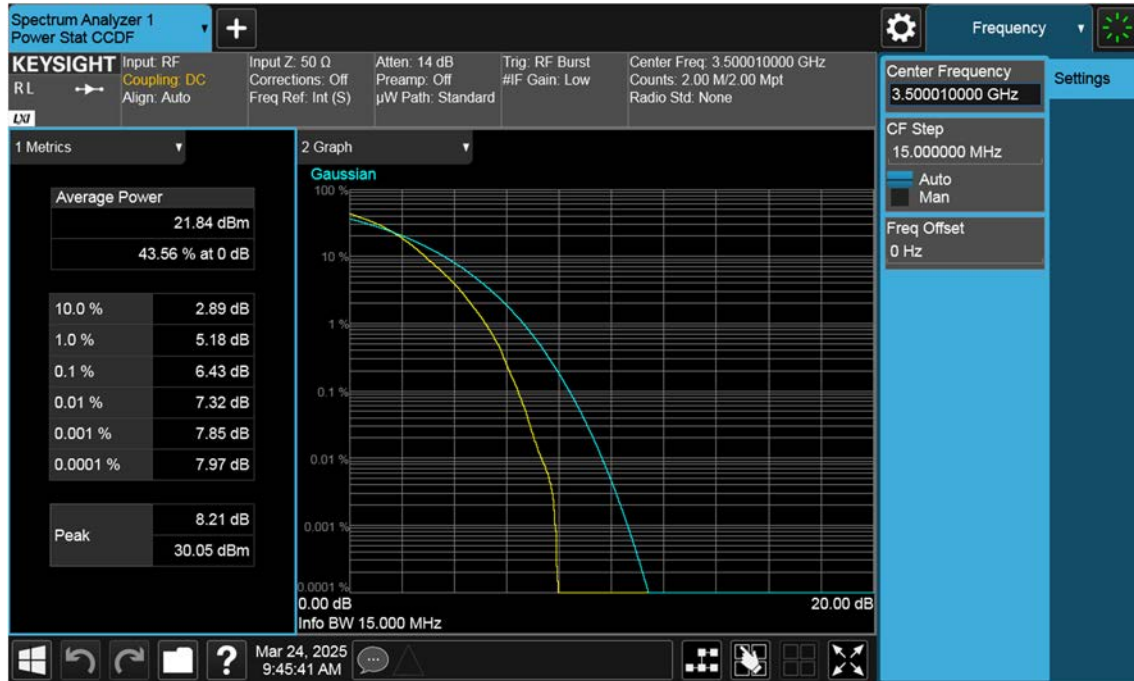
n77(3450~3550 MHz)_15 M_PAR_Mid_16QAM_FullRB



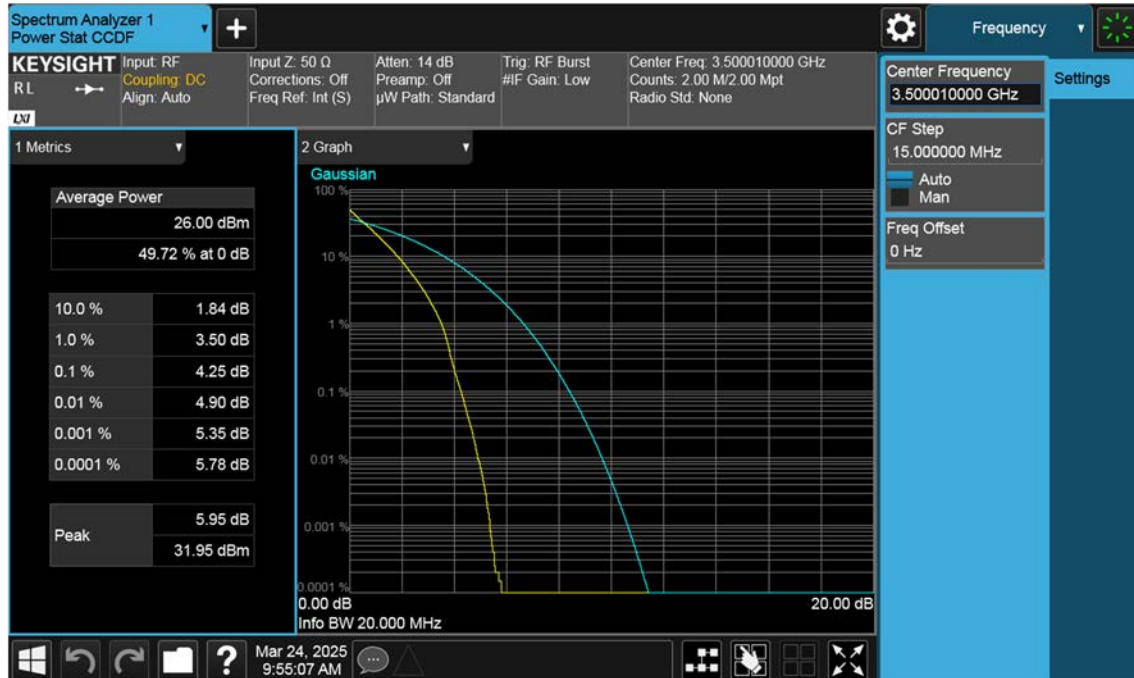
n77(3450~3550 MHz)_15 M_PAR_Mid_64QAM_FullRB



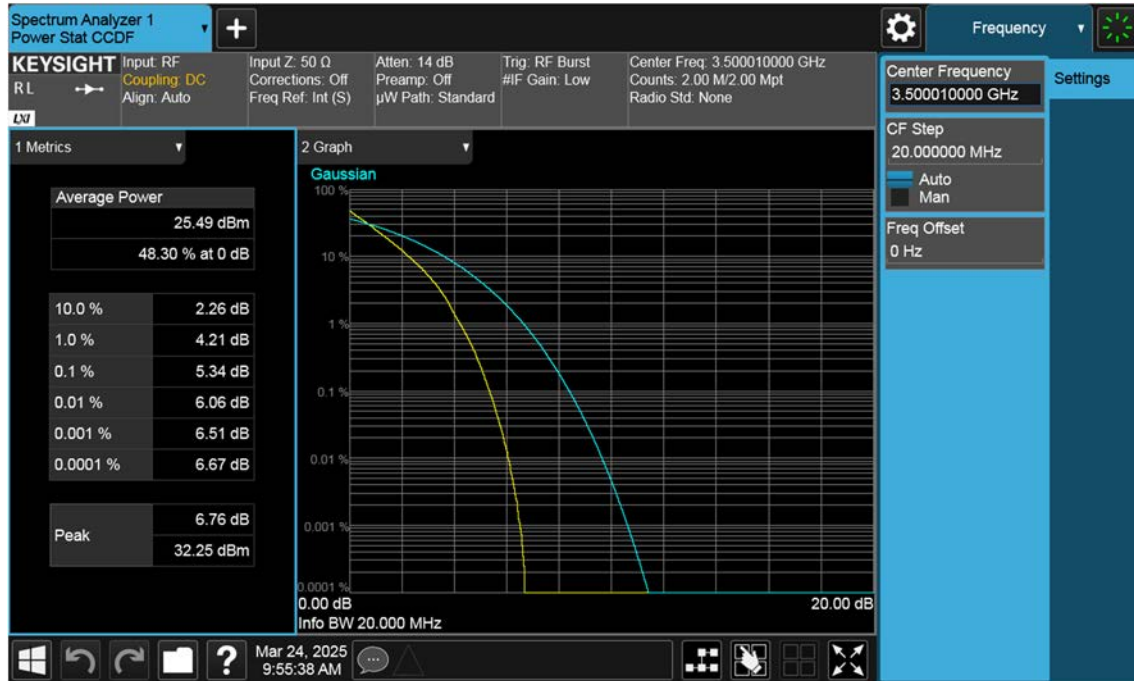
n77(3450~3550 MHz)_15 M_PAR_Mid_256QAM_FullRB



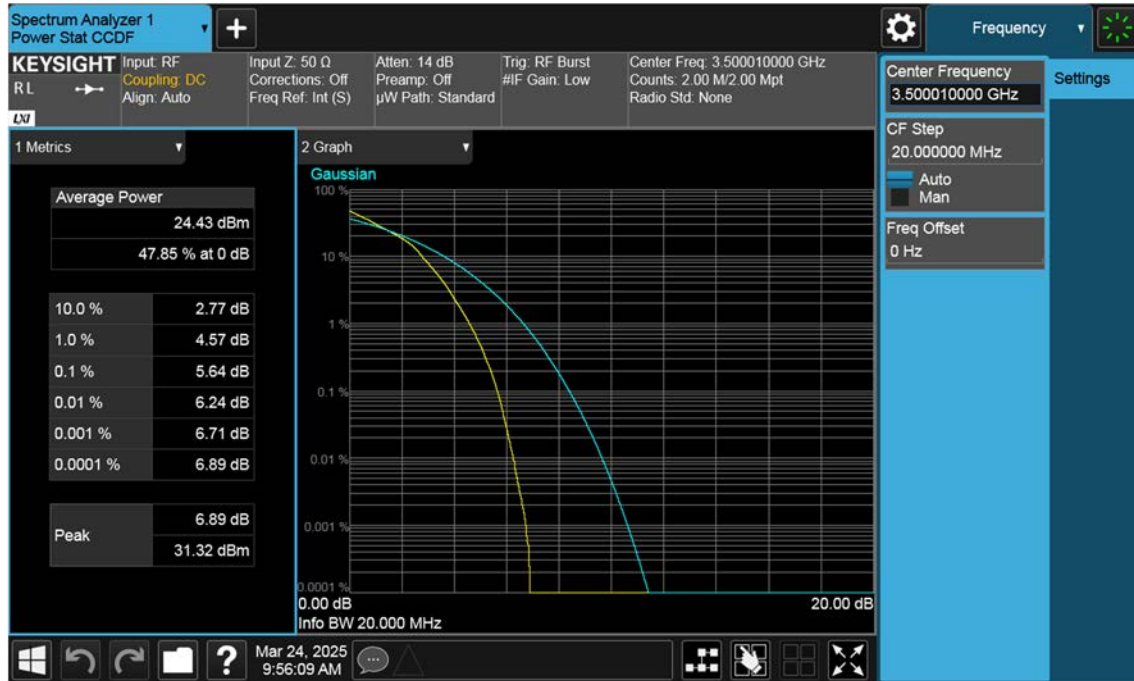
n77(3450~3550 MHz)_20 M_PAR_Mid_BPSK_FullRB



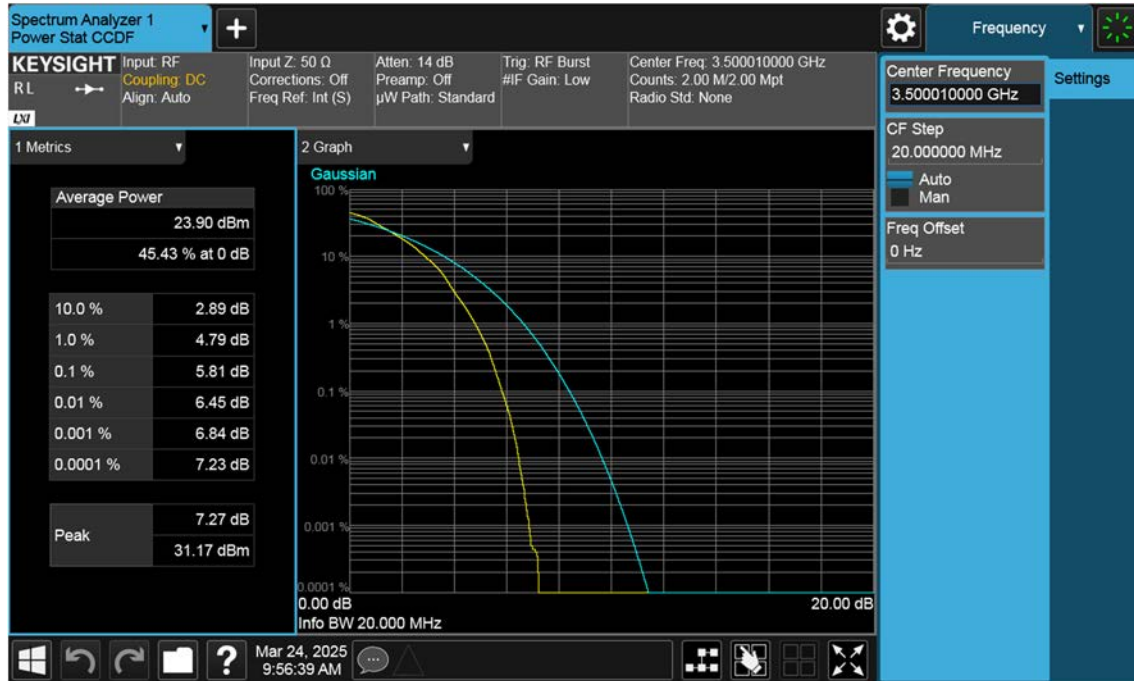
n77(3450~3550 MHz)_20 M_PAR_Mid_QPSK_FullRB



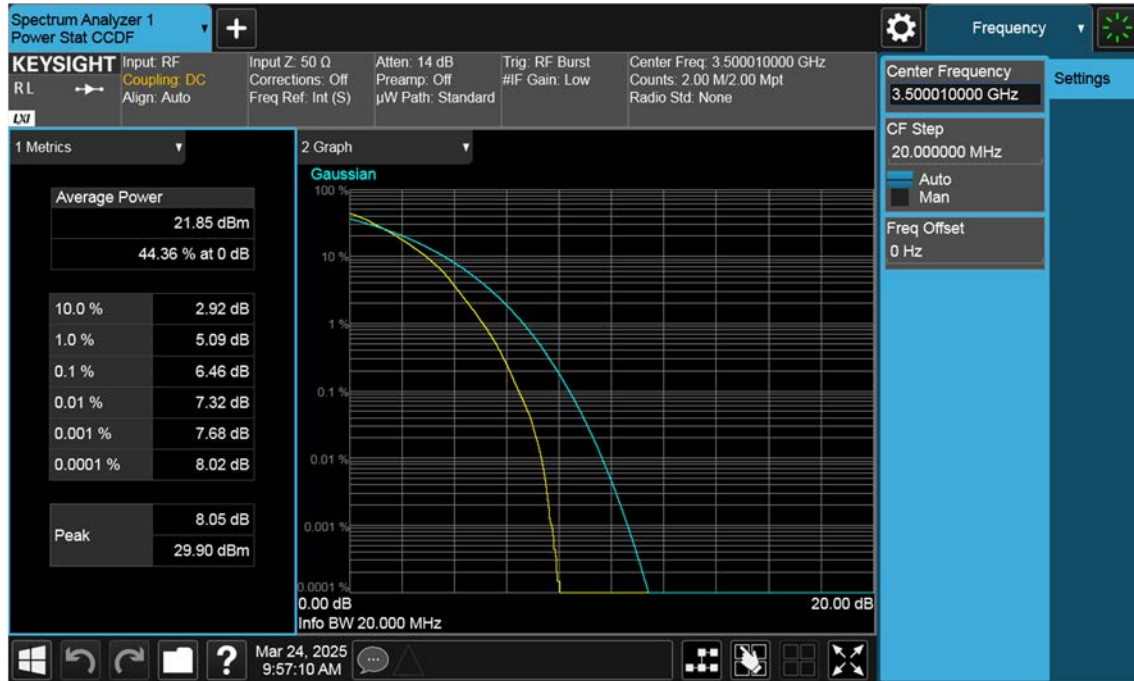
n77(3450~3550 MHz)_20 M_PAR_Mid_16QAM_FullRB



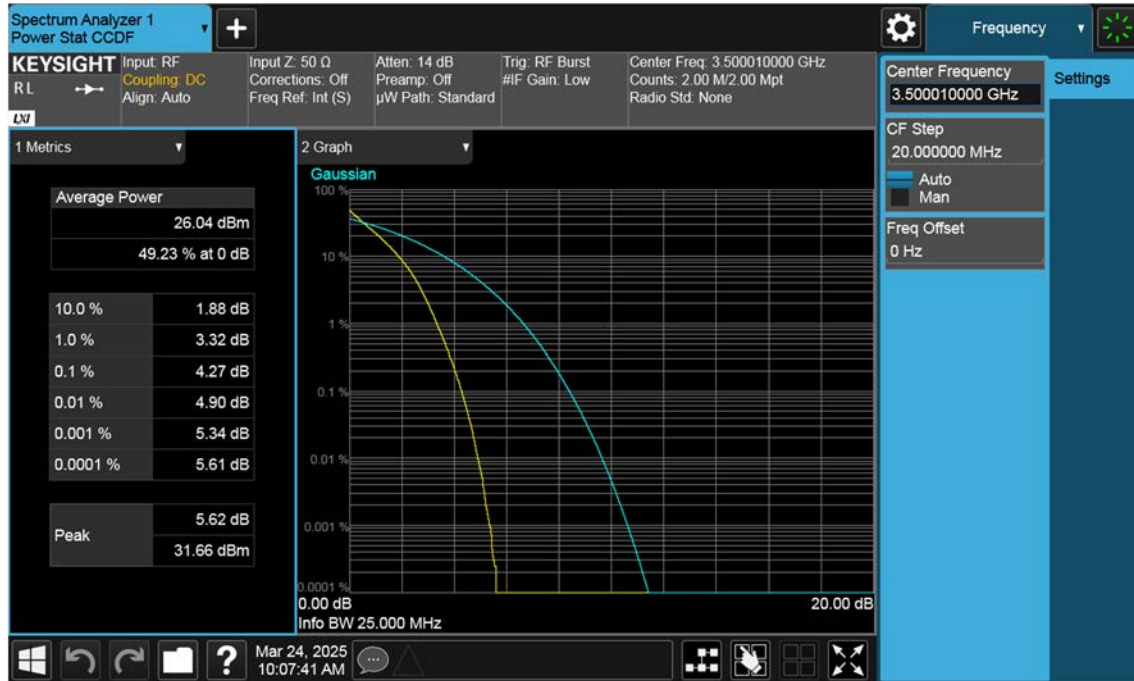
n77(3450~3550 MHz)_20 M_PAR_Mid_64QAM_FullRB



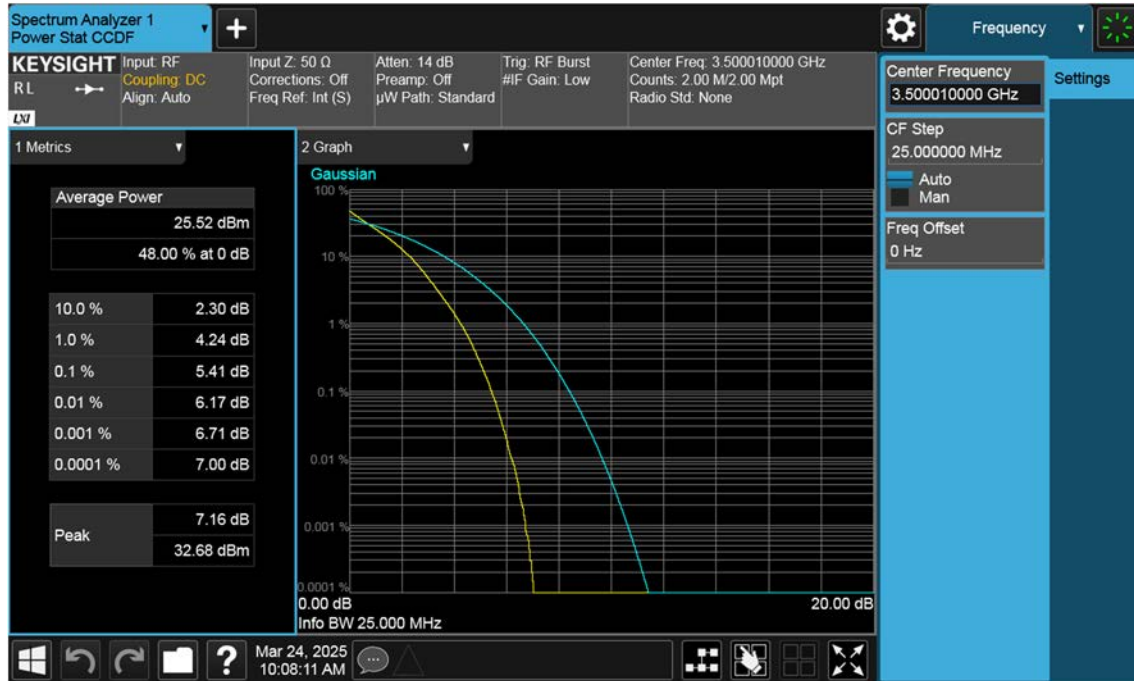
n77(3450~3550 MHz)_20 M_PAR_Mid_256QAM_FullRB



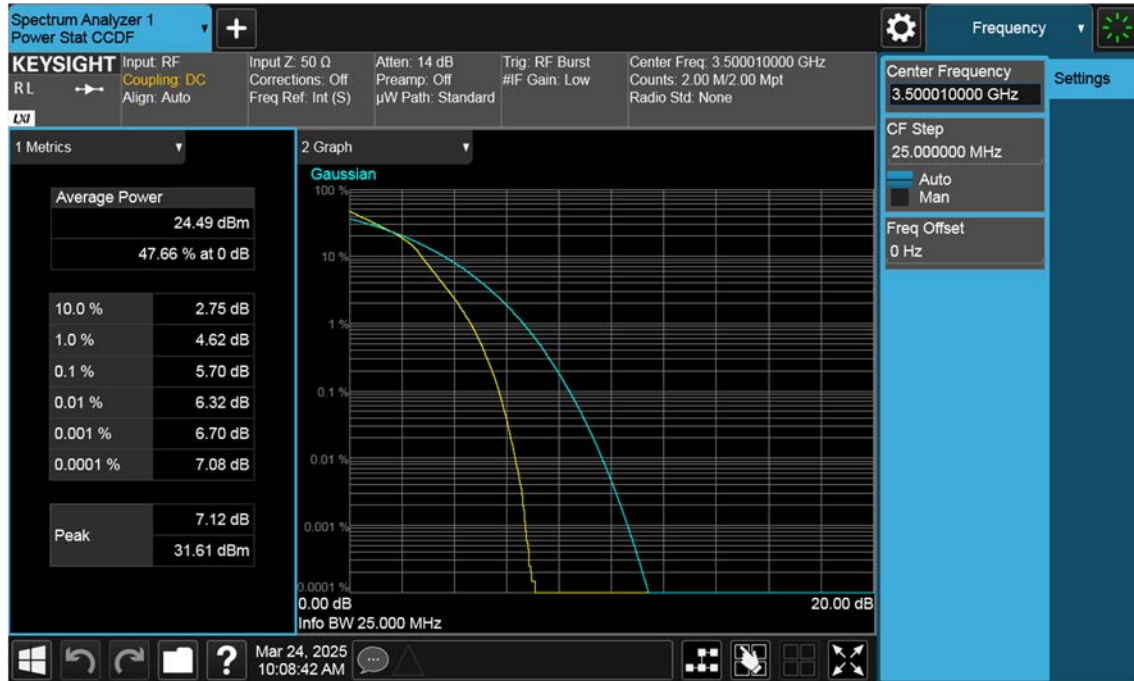
n77(3450~3550 MHz)_25 M_PAR_Mid_BPSK_FullRB



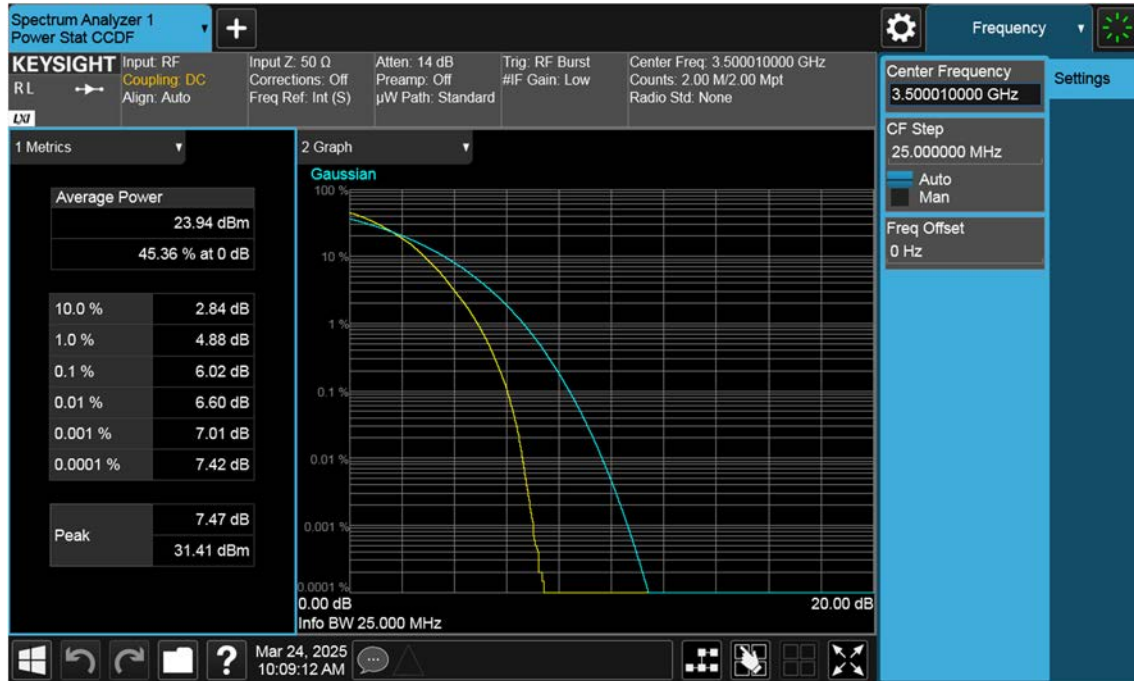
n77(3450~3550 MHz)_25 M_PAR_Mid_QPSK_FullRB



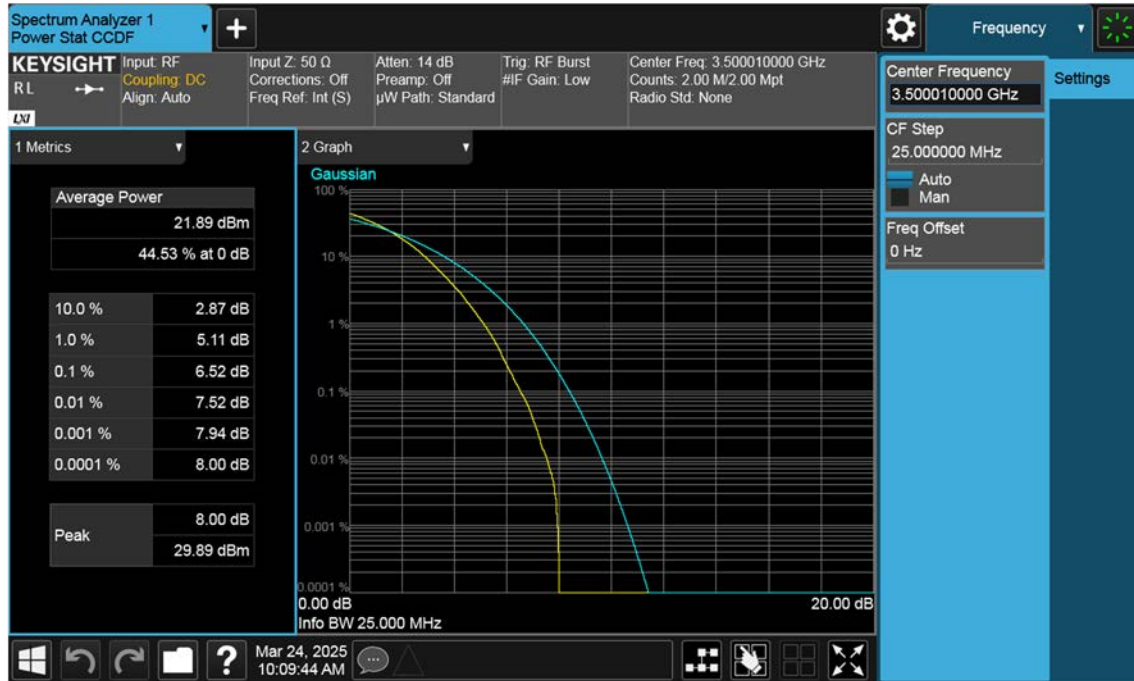
n77(3450~3550 MHz)_25 M_PAR_Mid_16QAM_FullRB



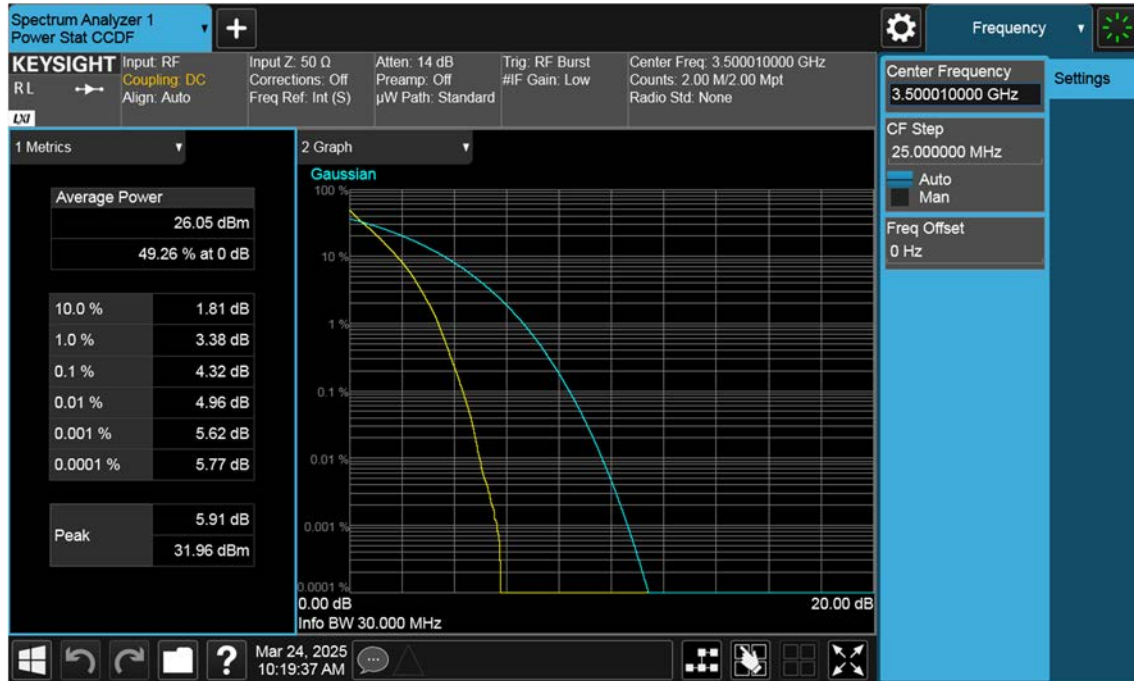
n77(3450~3550 MHz)_25 M_PAR_Mid_64QAM_FullRB



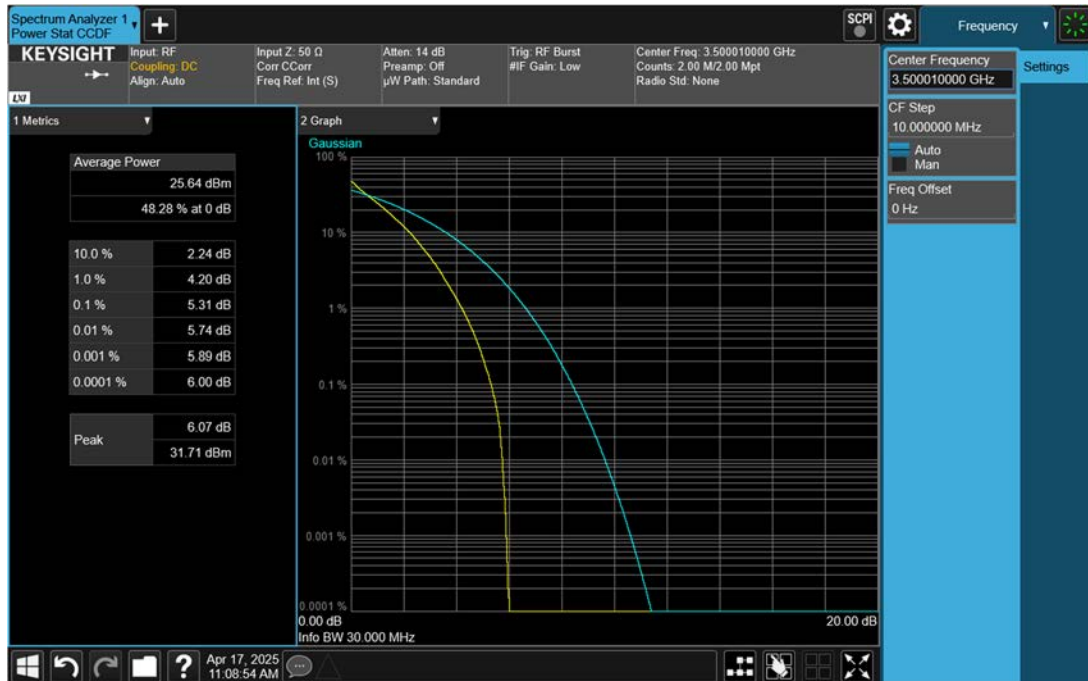
n77(3450~3550 MHz)_25 M_PAR_Mid_256QAM_FullRB



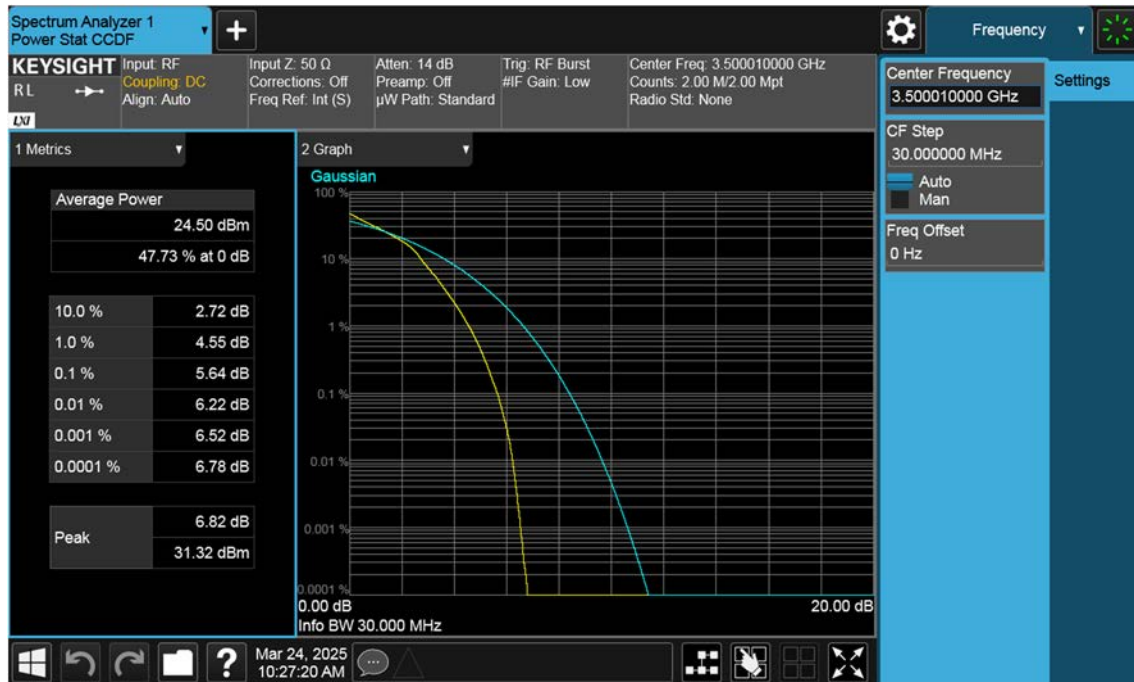
n77(3450~3550 MHz)_30 M_PAR_Mid_BPSK_FullRB



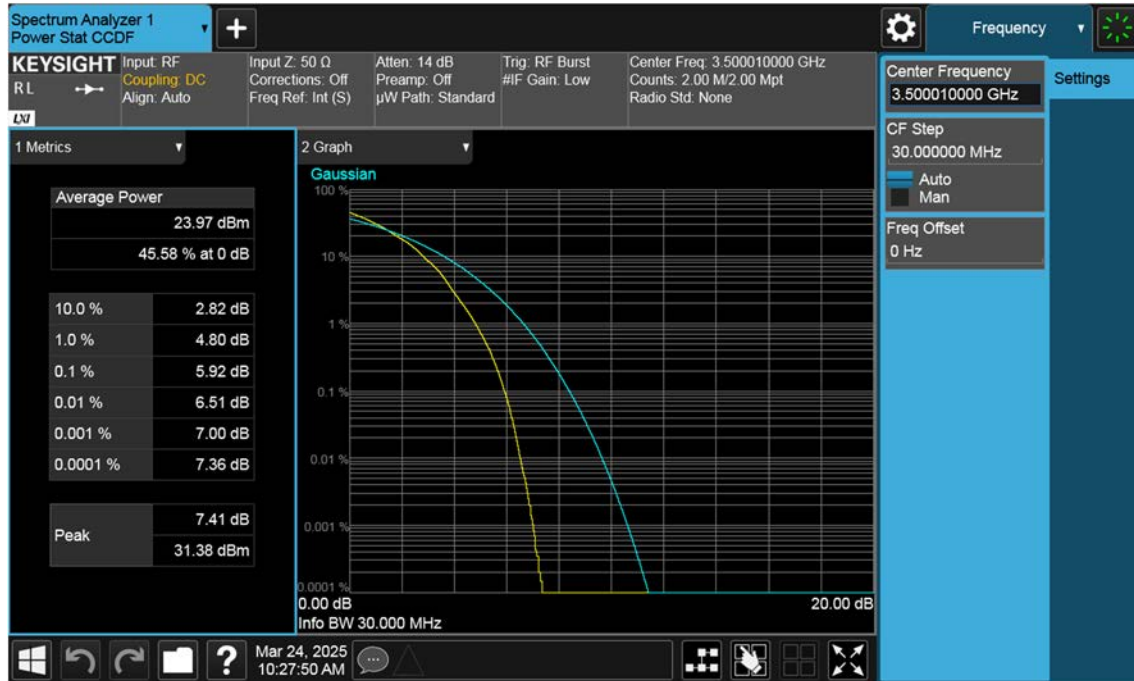
n77(3450~3550 MHz)_30 M_PAR_Mid_QPSK_FullRB



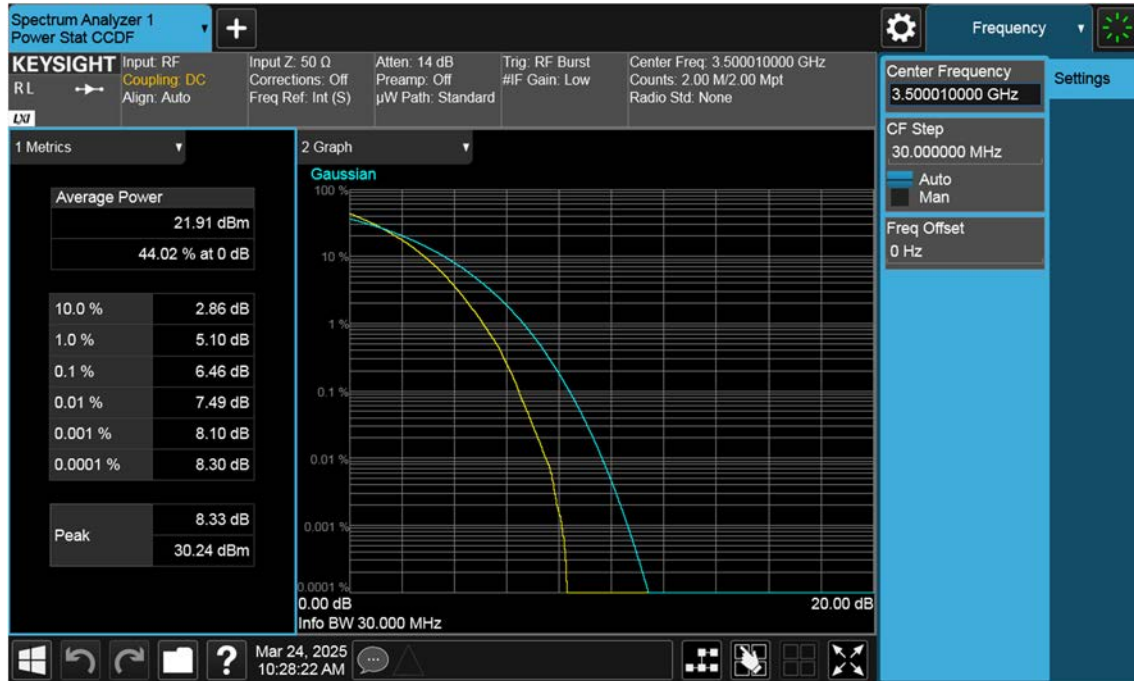
n77(3450~3550 MHz)_30 M_PAR_Mid_16QAM_FullRB



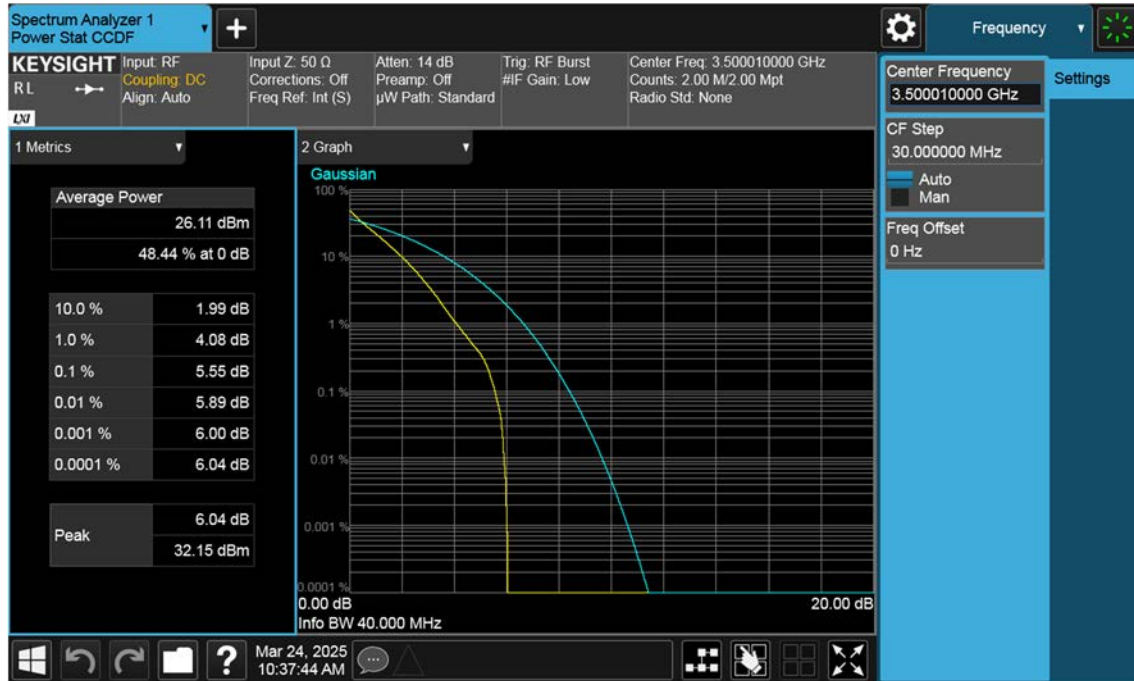
n77(3450~3550 MHz)_30 M_PAR_Mid_64QAM_FullRB



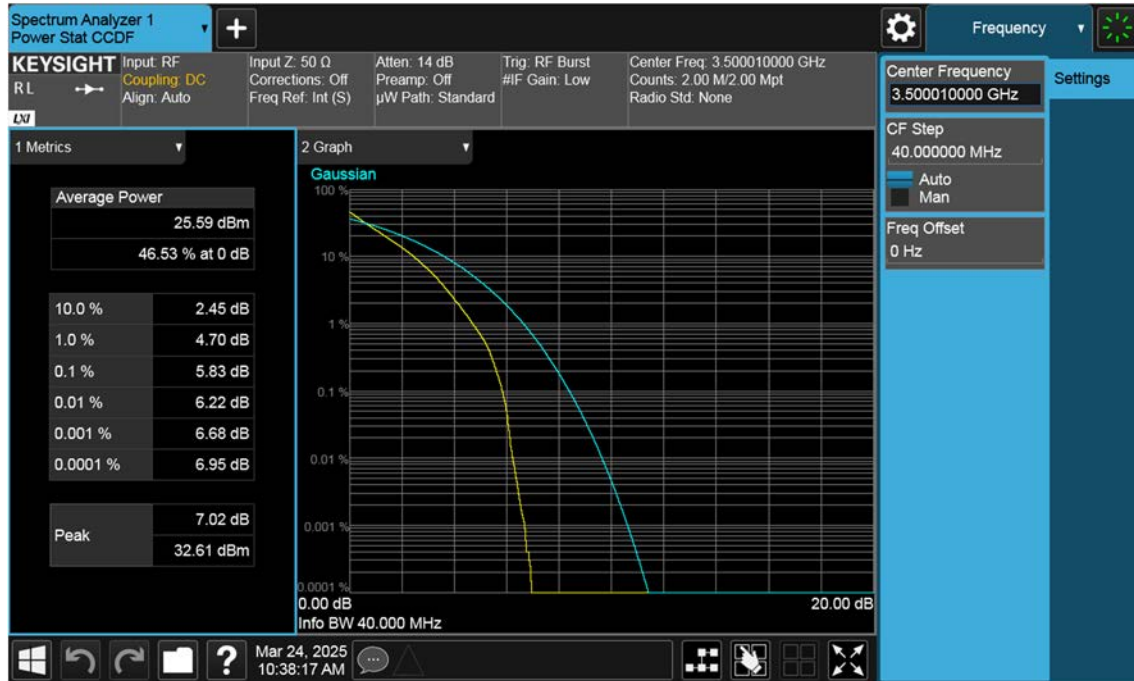
n77(3450~3550 MHz)_30 M_PAR_Mid_256QAM_FullRB



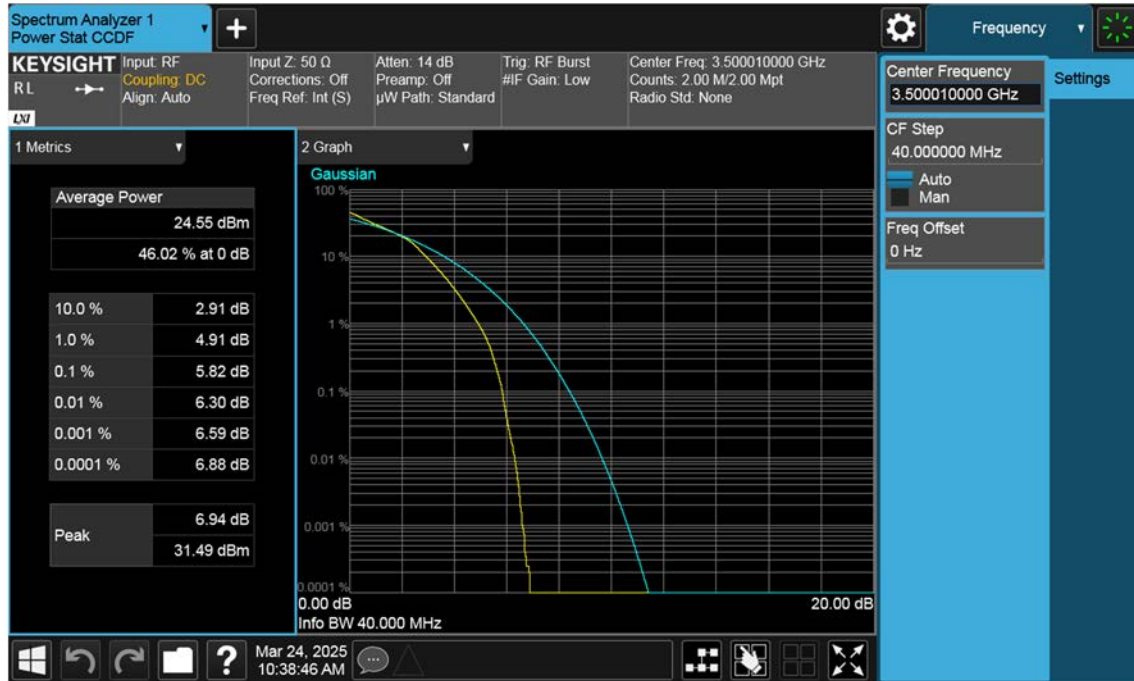
n77(3450~3550 MHz)_40 M_PAR_Mid_BPSK_FullRB



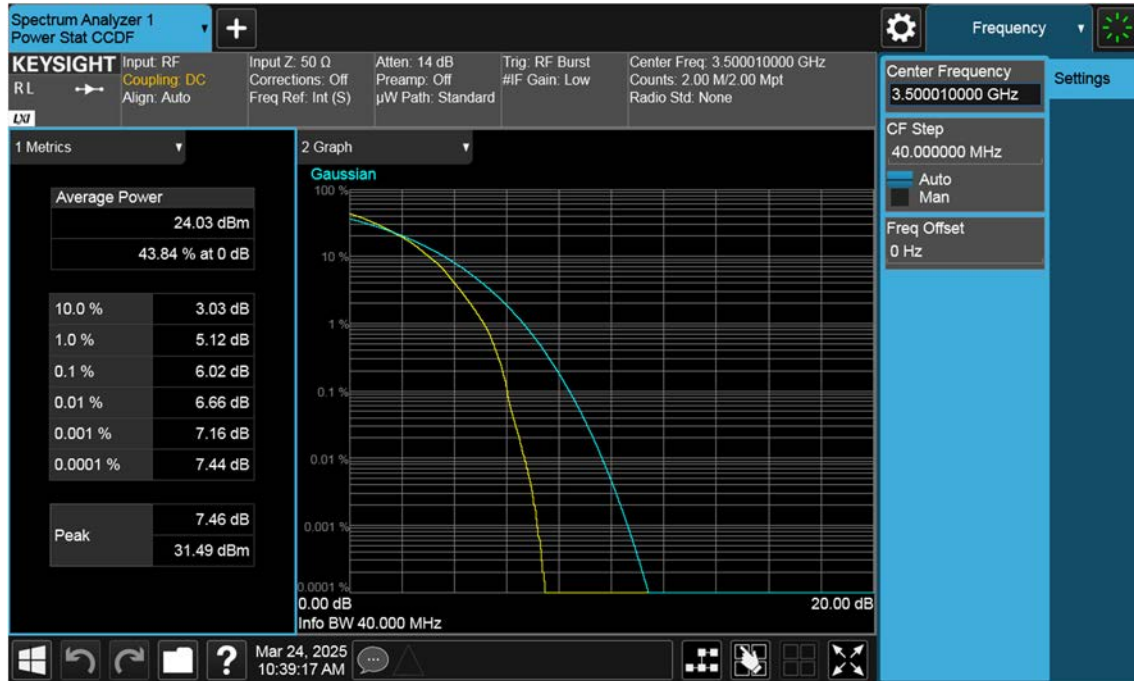
n77(3450~3550 MHz)_40 M_PAR_Mid_QPSK_FullRB



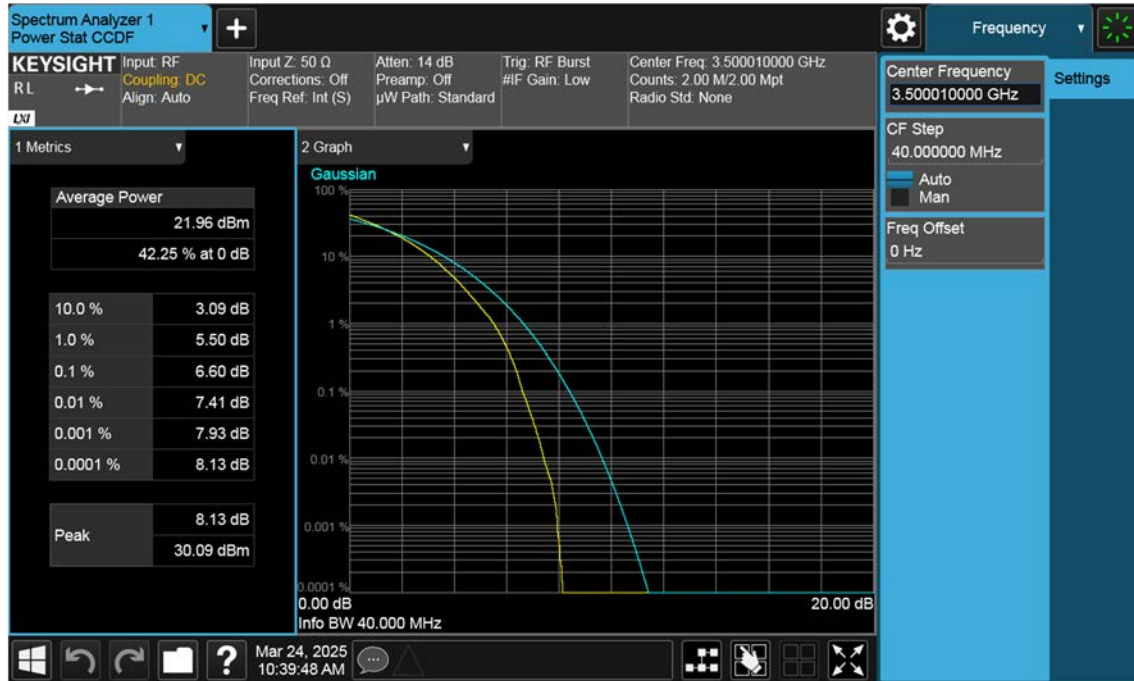
n77(3450~3550 MHz)_40 M_PAR_Mid_16QAM_FullRB



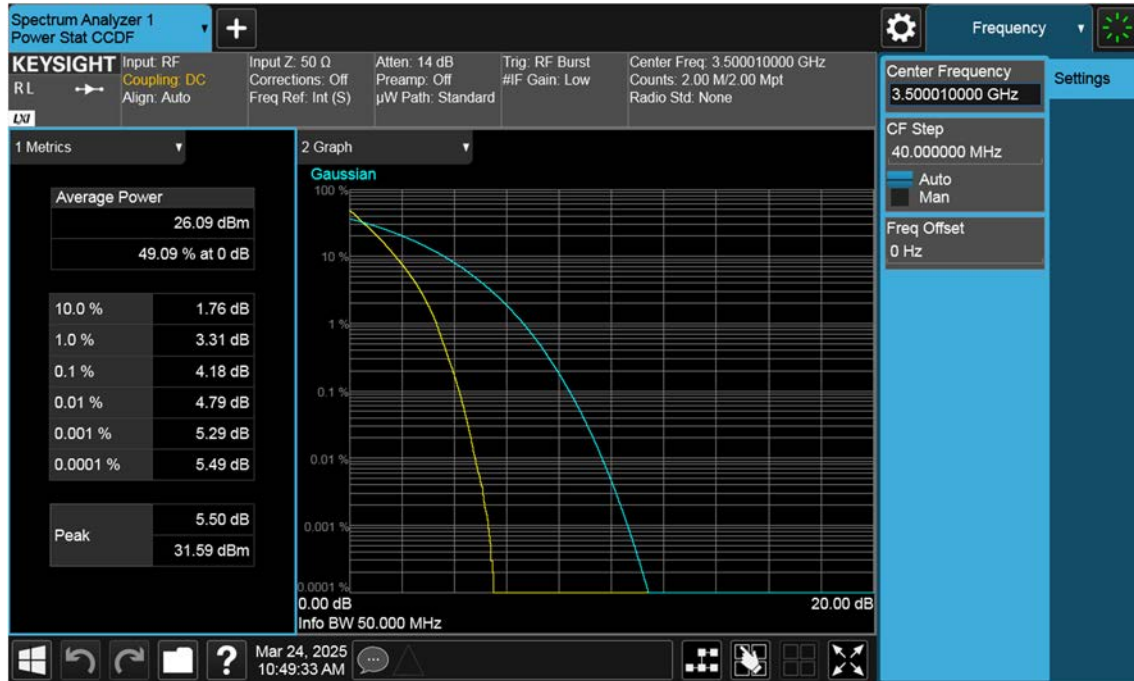
n77(3450~3550 MHz)_40 M_PAR_Mid_64QAM_FullRB



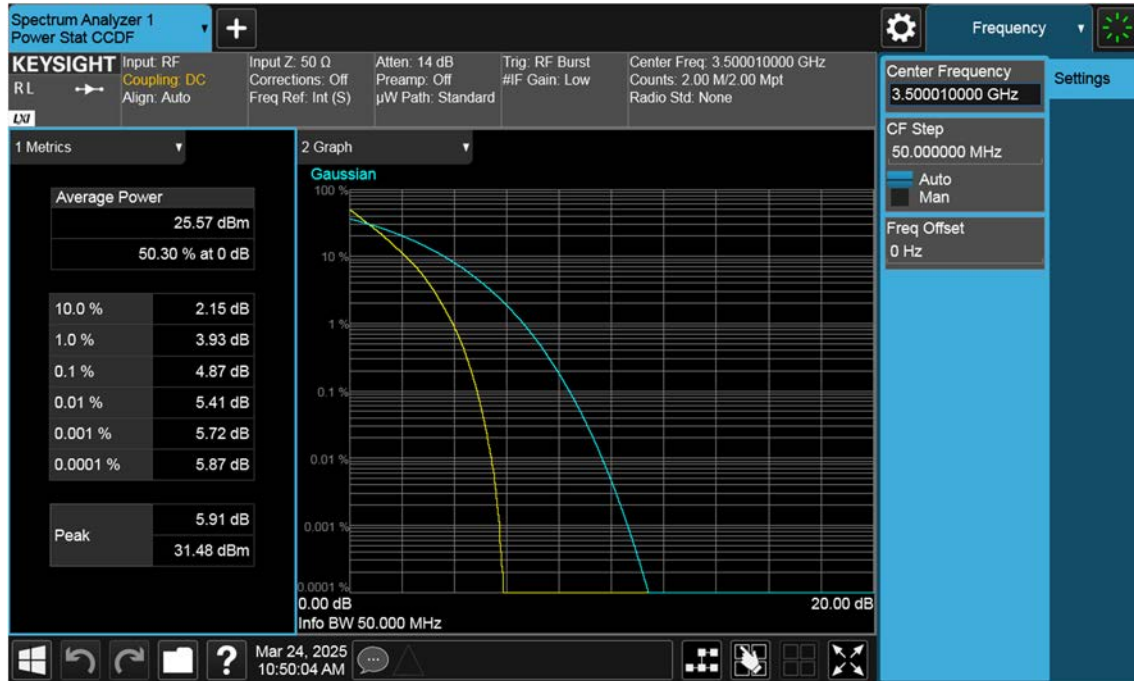
n77(3450~3550 MHz)_40 M_PAR_Mid_256QAM_FullRB



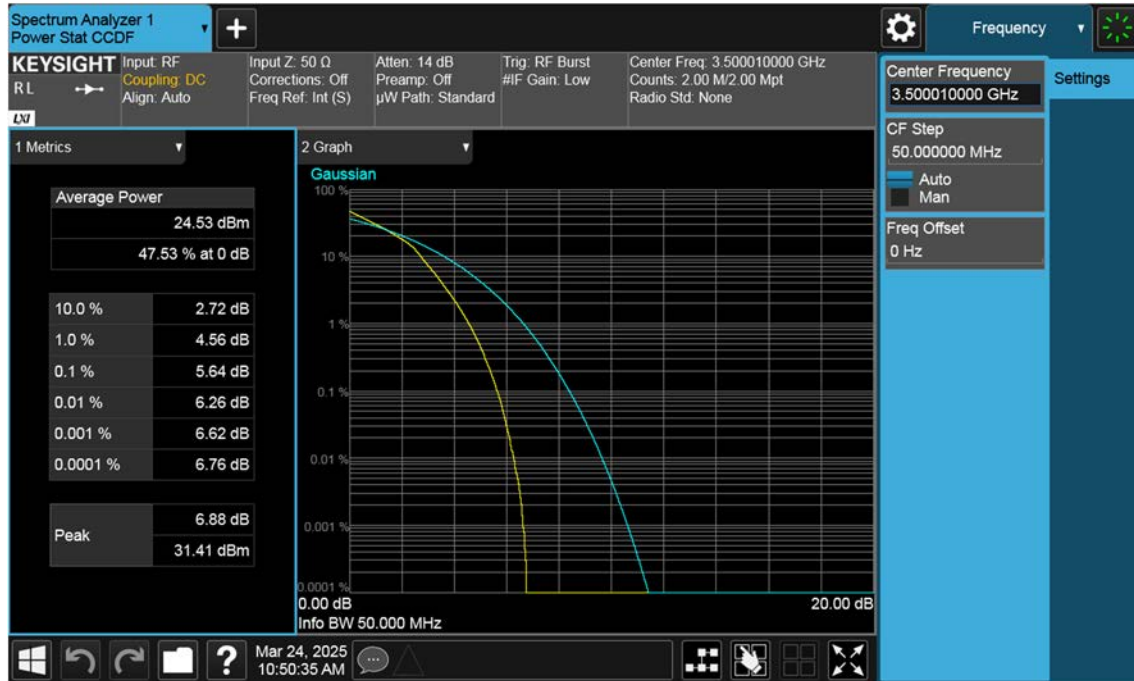
n77(3450~3550 MHz)_50 M_PAR_Mid_BPSK_FullRB



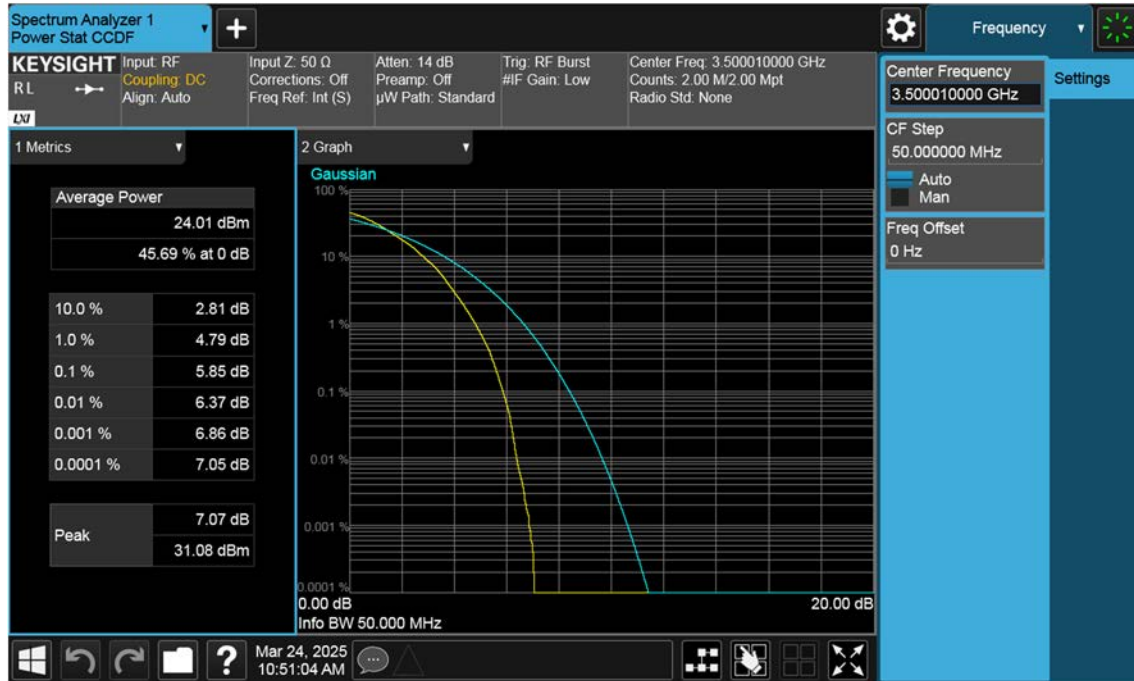
n77(3450~3550 MHz)_50 M_PAR_Mid_QPSK_FullRB



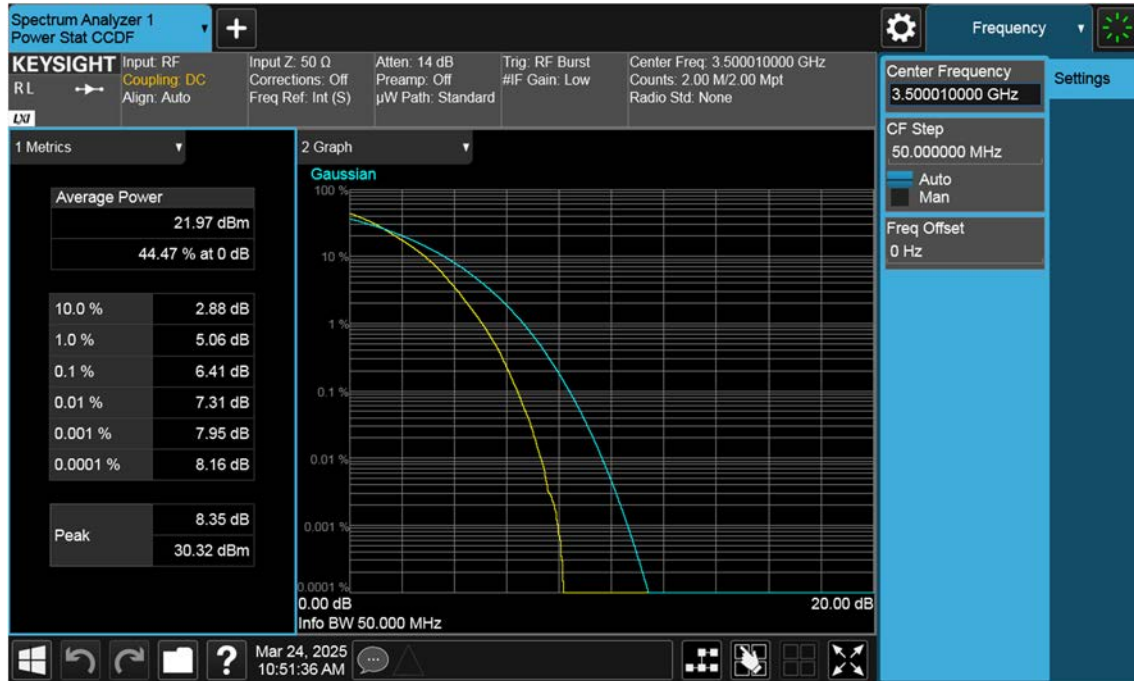
n77(3450~3550 MHz)_50 M_PAR_Mid_16QAM_FullRB



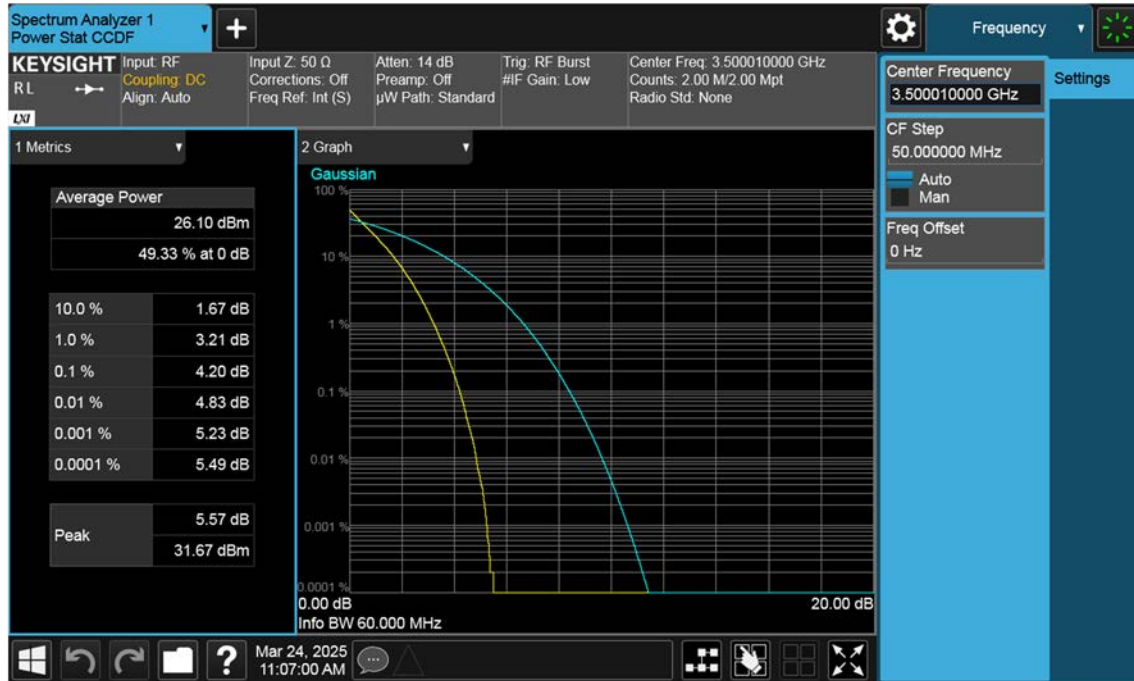
n77(3450~3550 MHz)_50 M_PAR_Mid_64QAM_FullRB



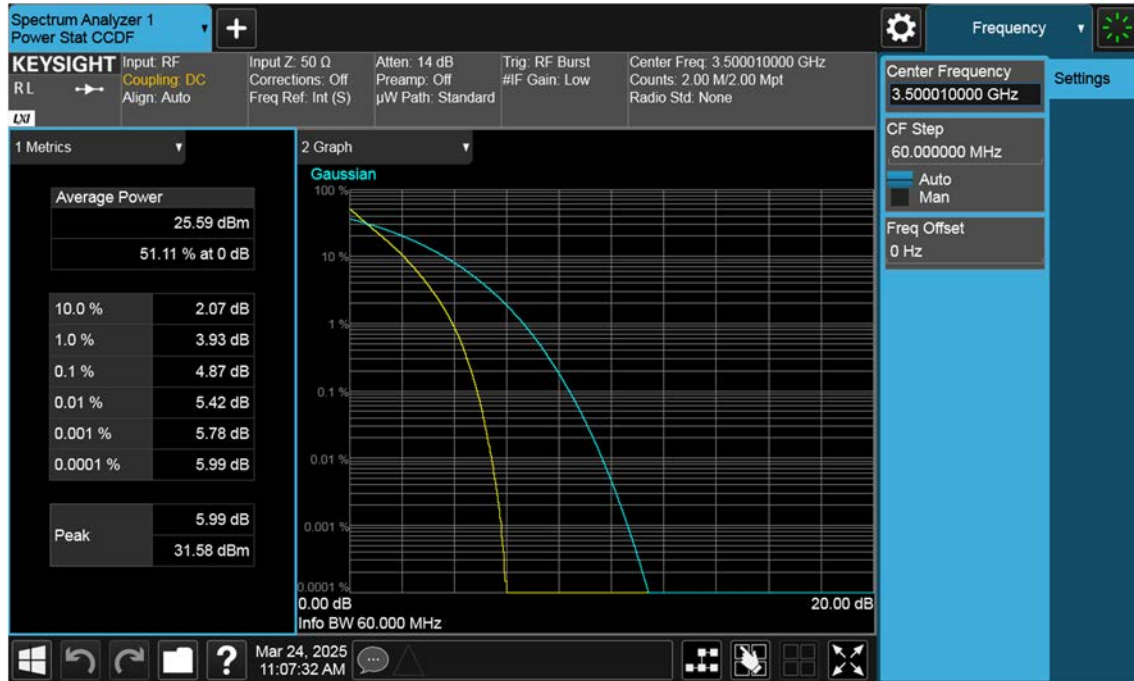
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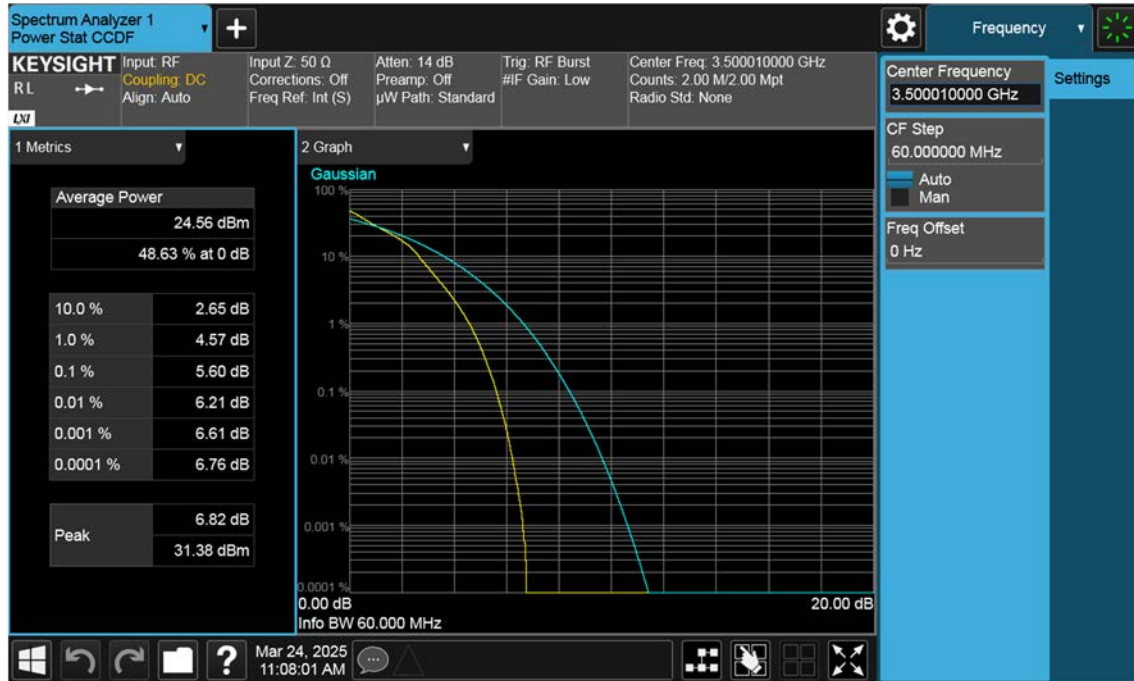
n77(3450~3550 MHz)_60 M_PAR_Mid_BPSK_FullRB



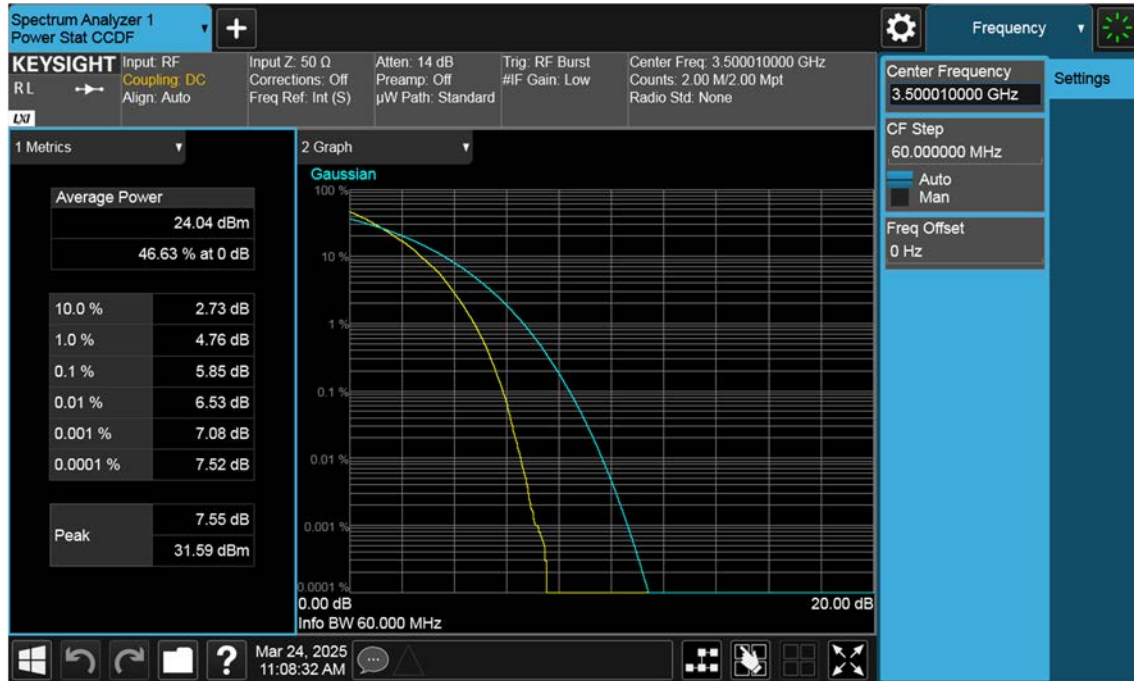
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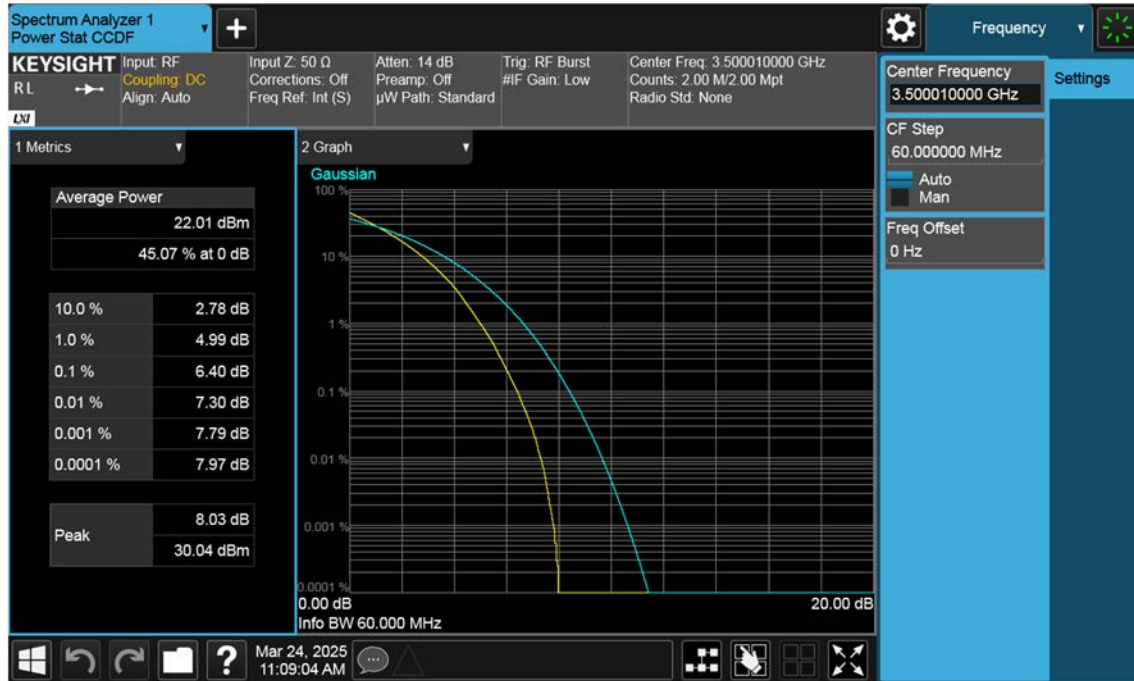
n77(3450~3550 MHz)_60 M_PAR_Mid_16QAM_FullRB



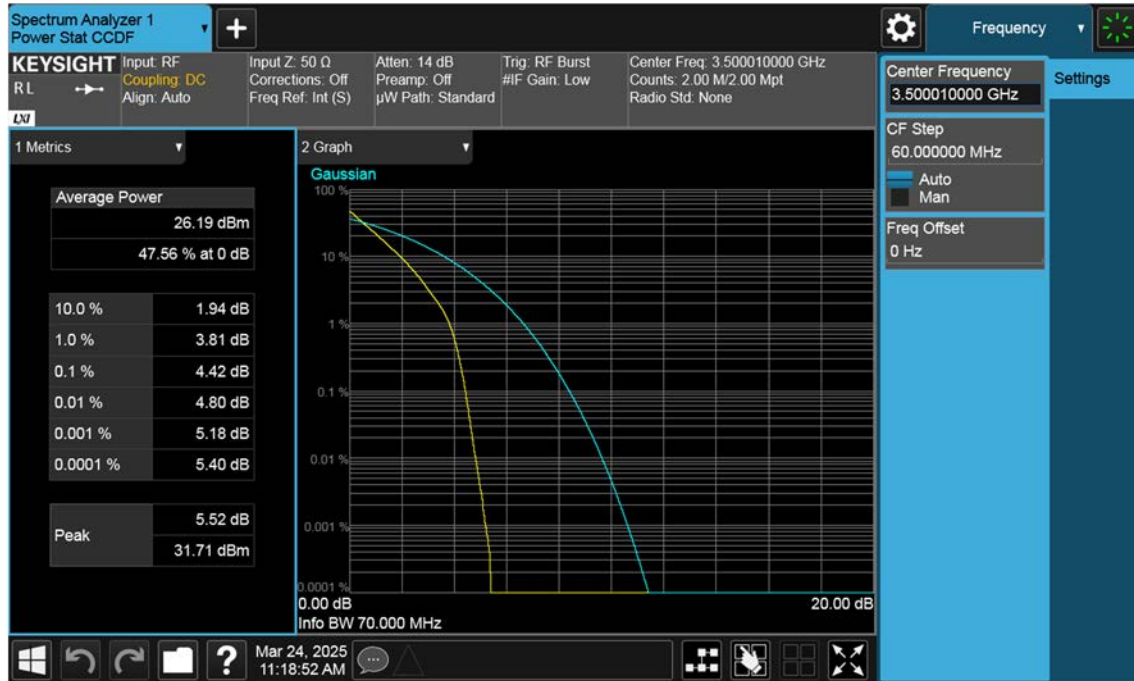
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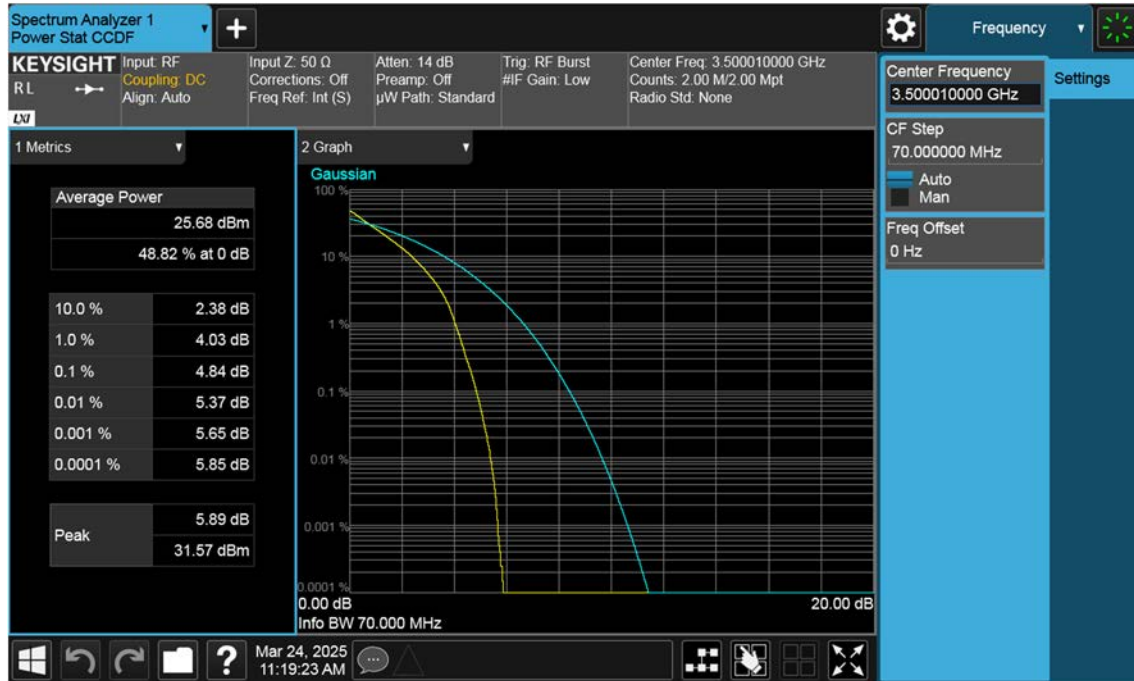
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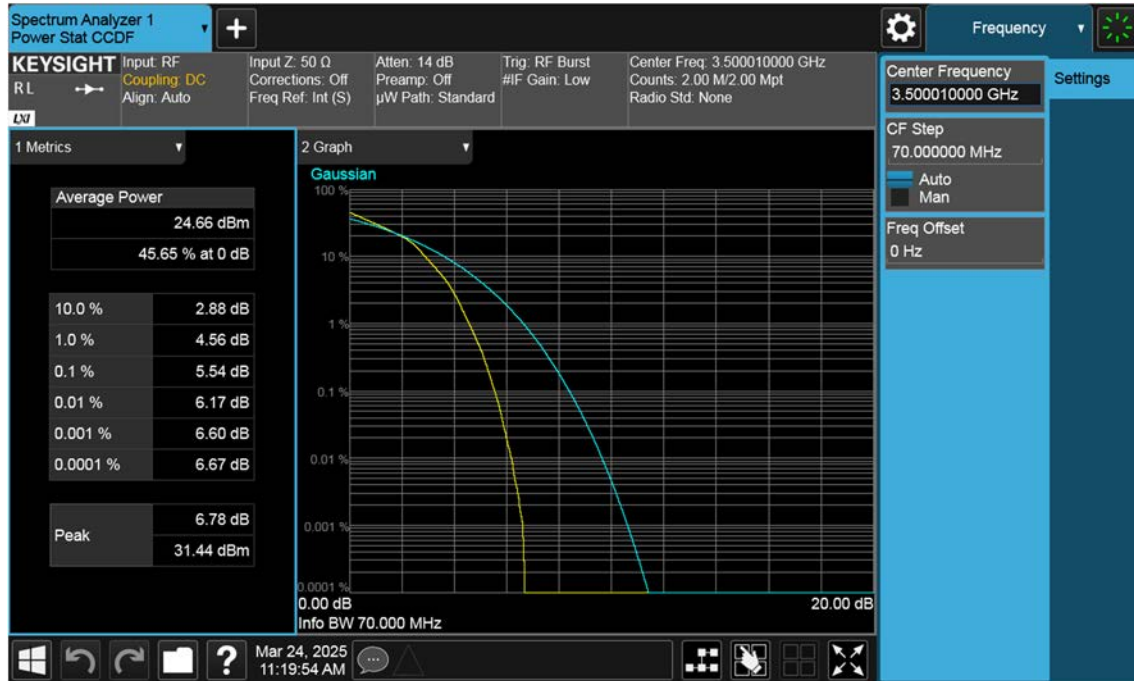
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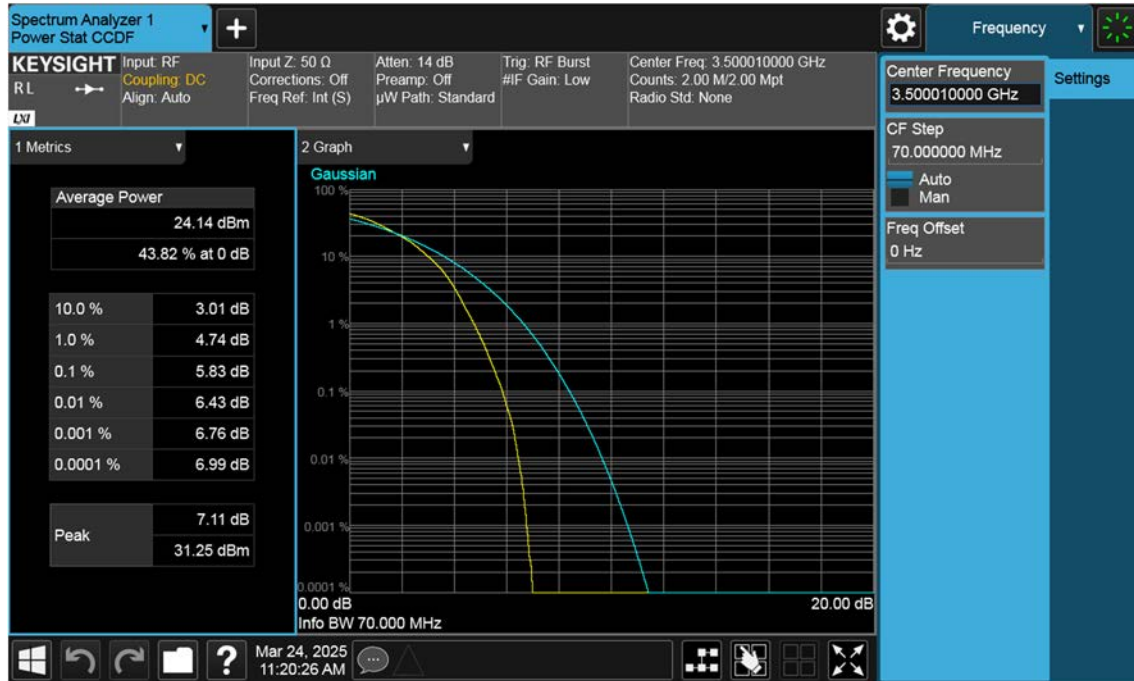
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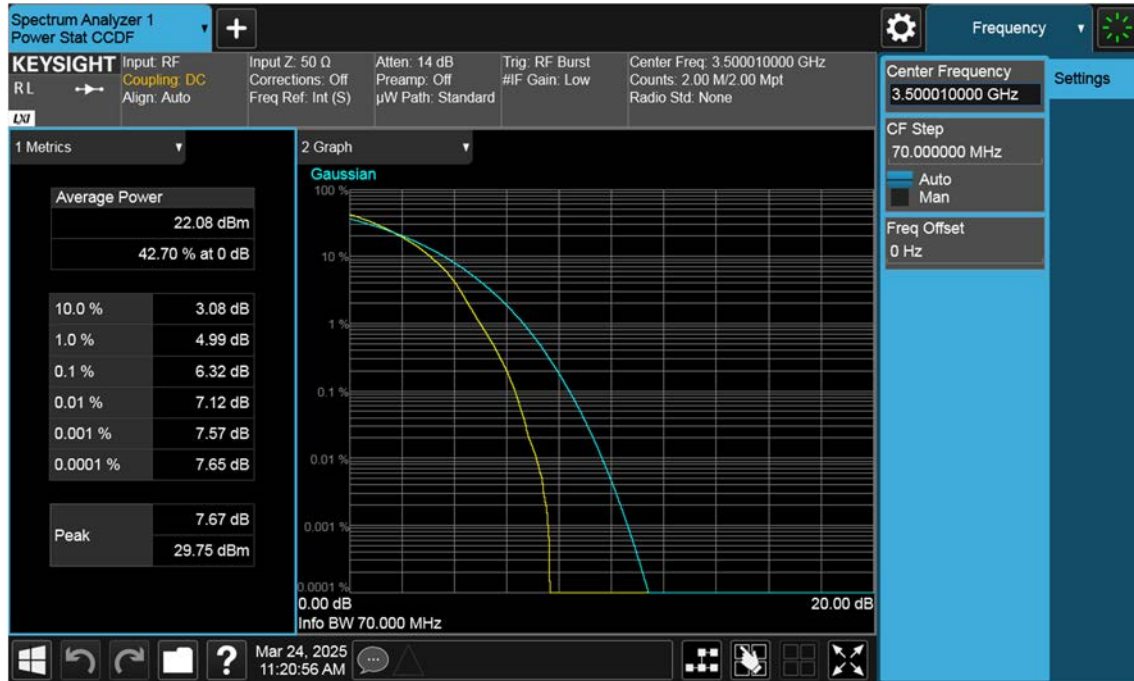
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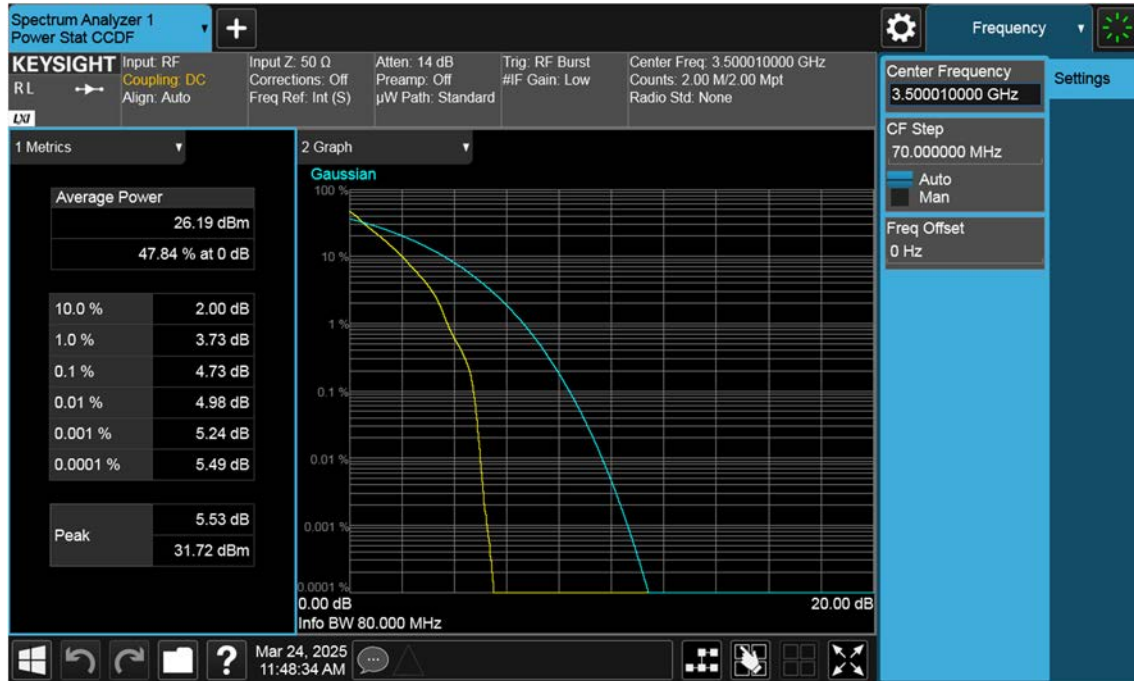
n77(3450~3550 MHz)_70 M_PAR_Mid_64QAM_FullRB



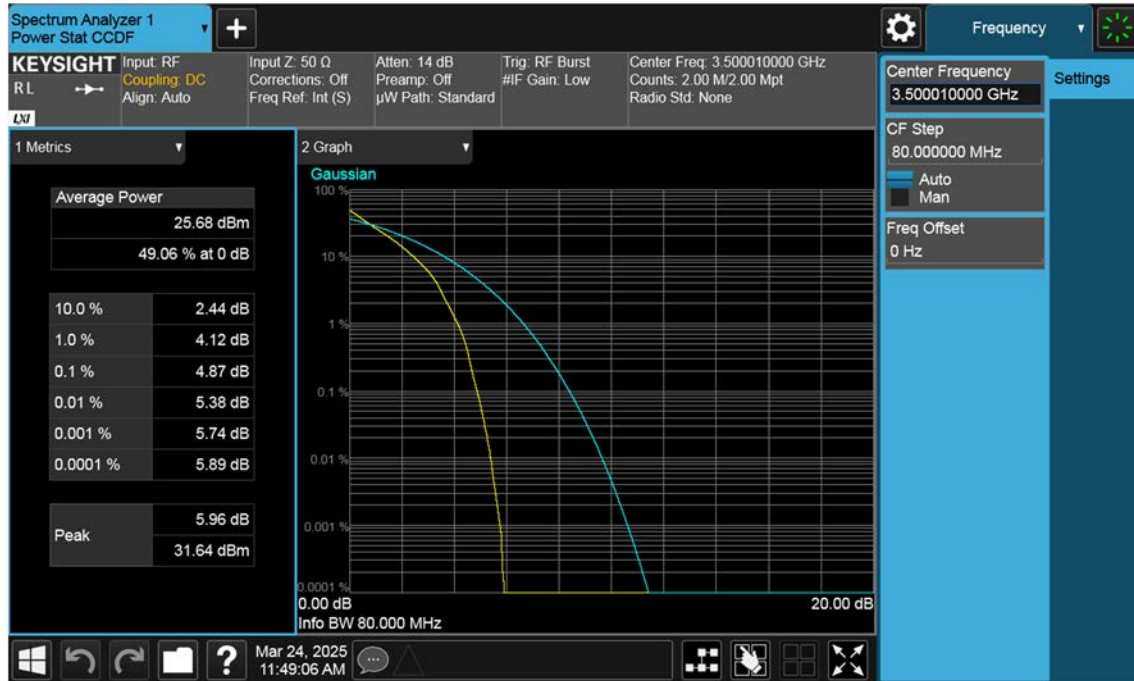
n77(3450~3550 MHz)_70 M_PAR_Mid_256QAM_FullRB



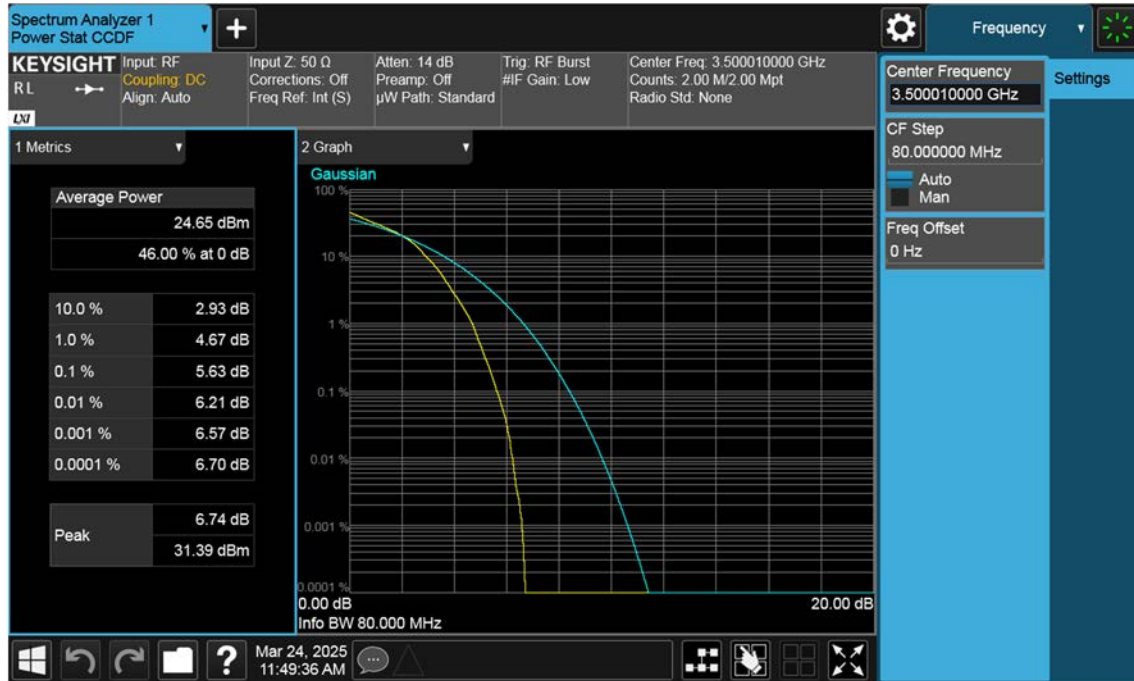
n77(3450~3550 MHz)_80 M_PAR_Mid_BPSK_FullRB



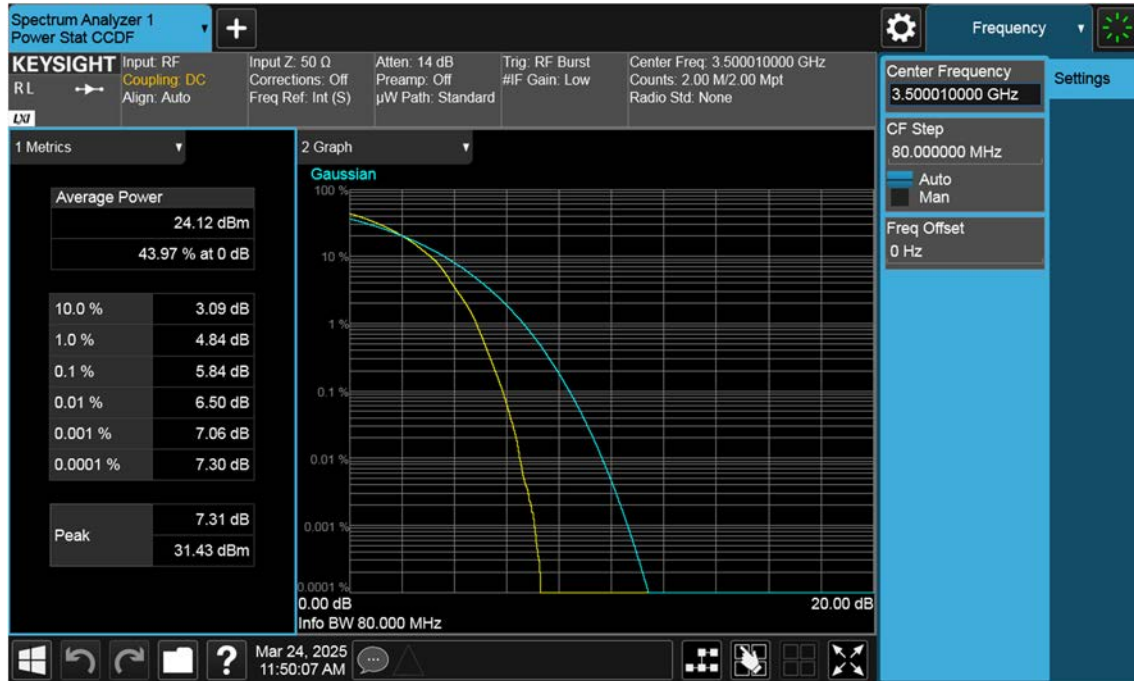
n77(3450~3550 MHz)_80 M_PAR_Mid_QPSK_FullRB



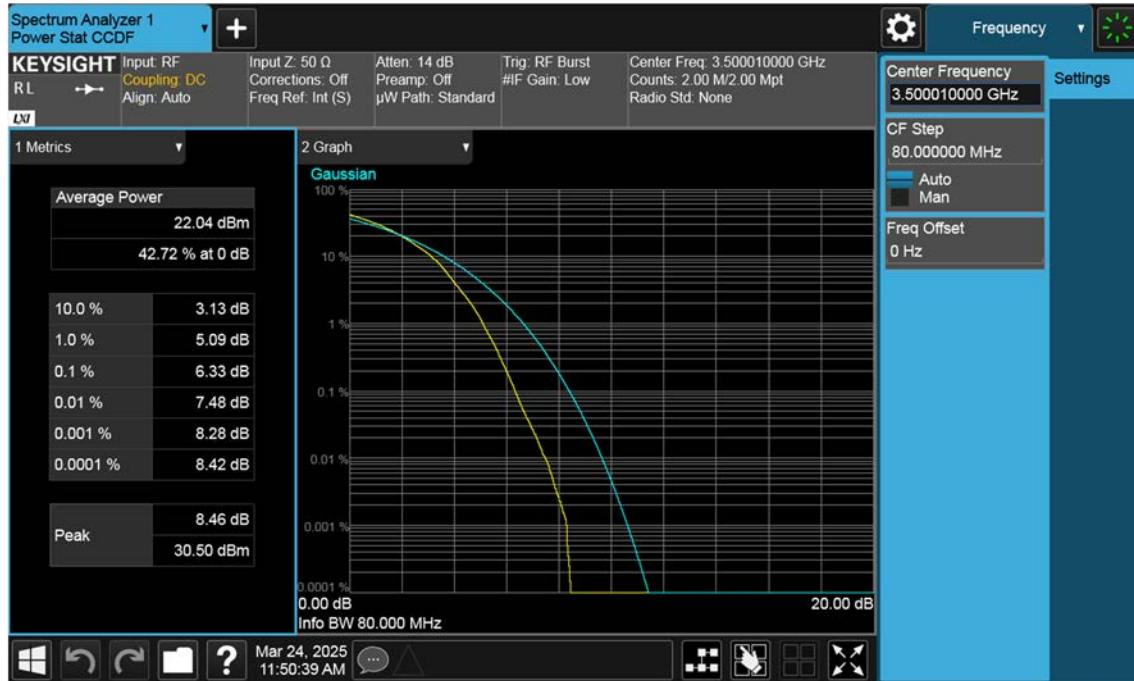
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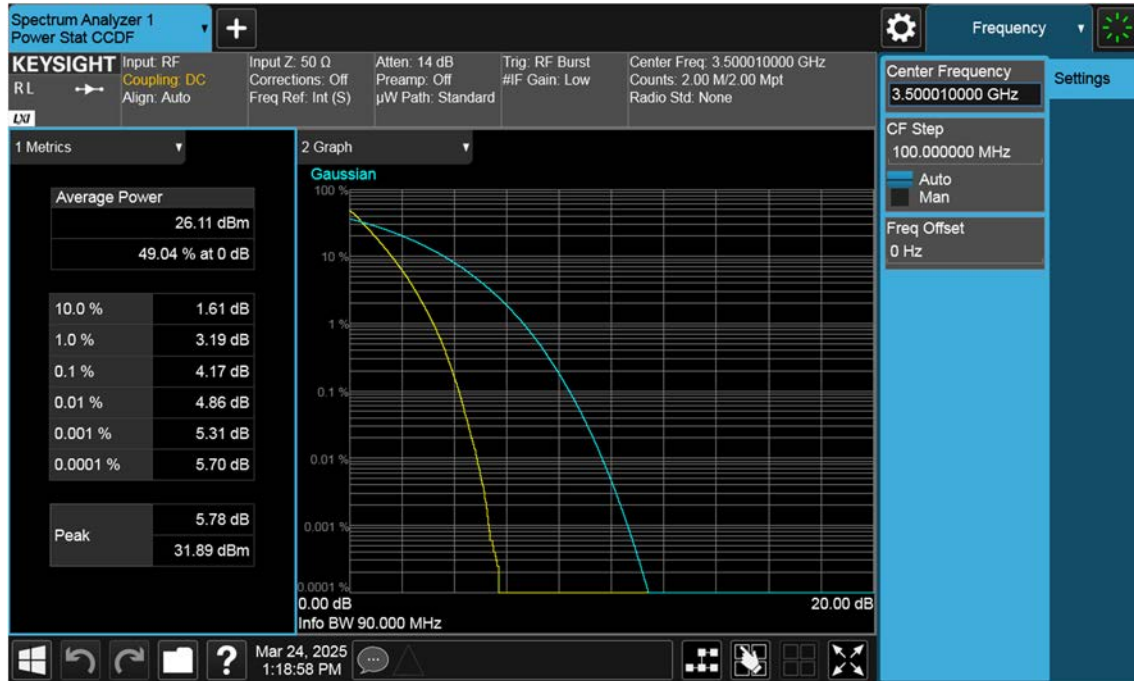
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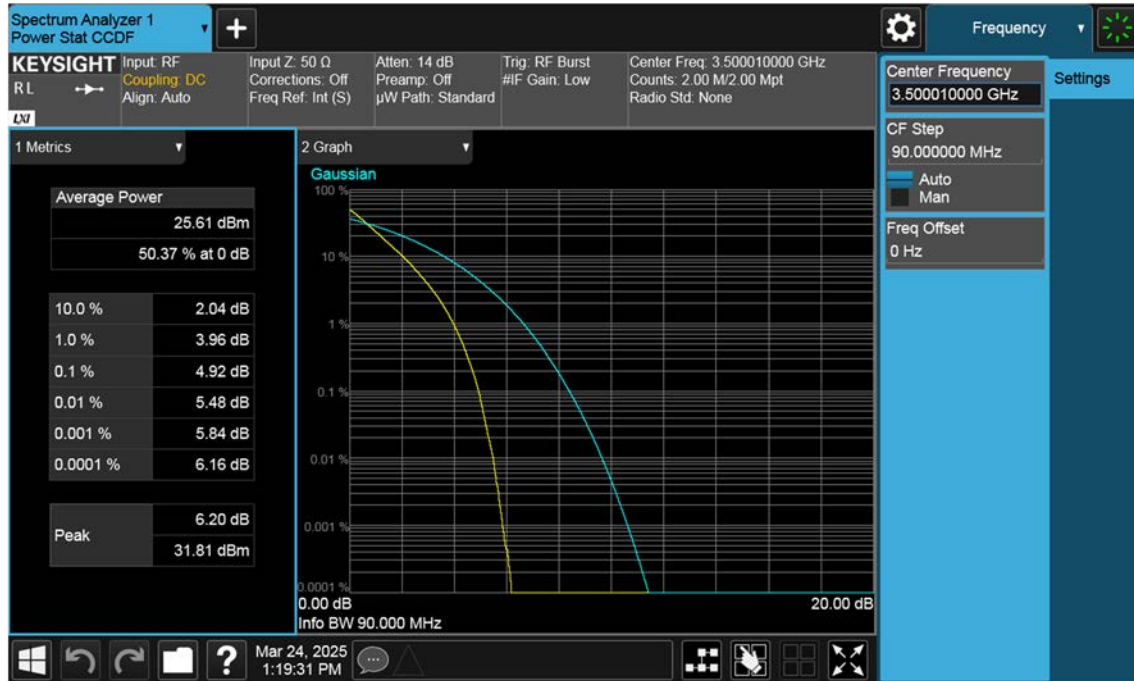
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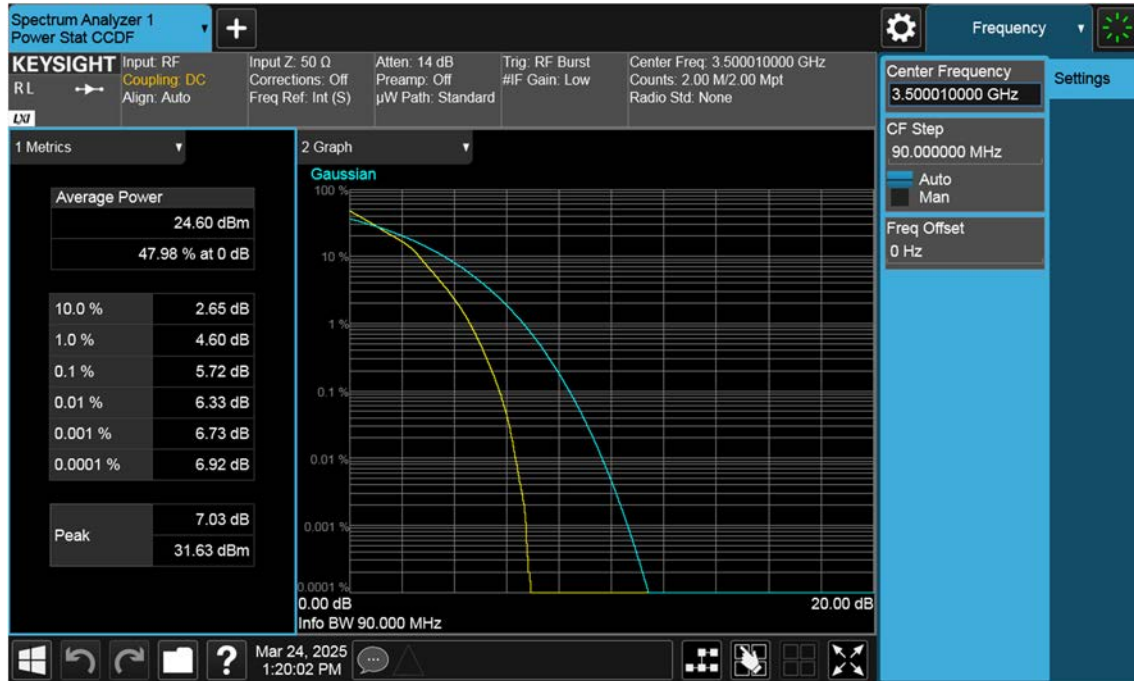
n77(3450~3550 MHz)_90 M_PAR_Mid_BPSK_FullRB



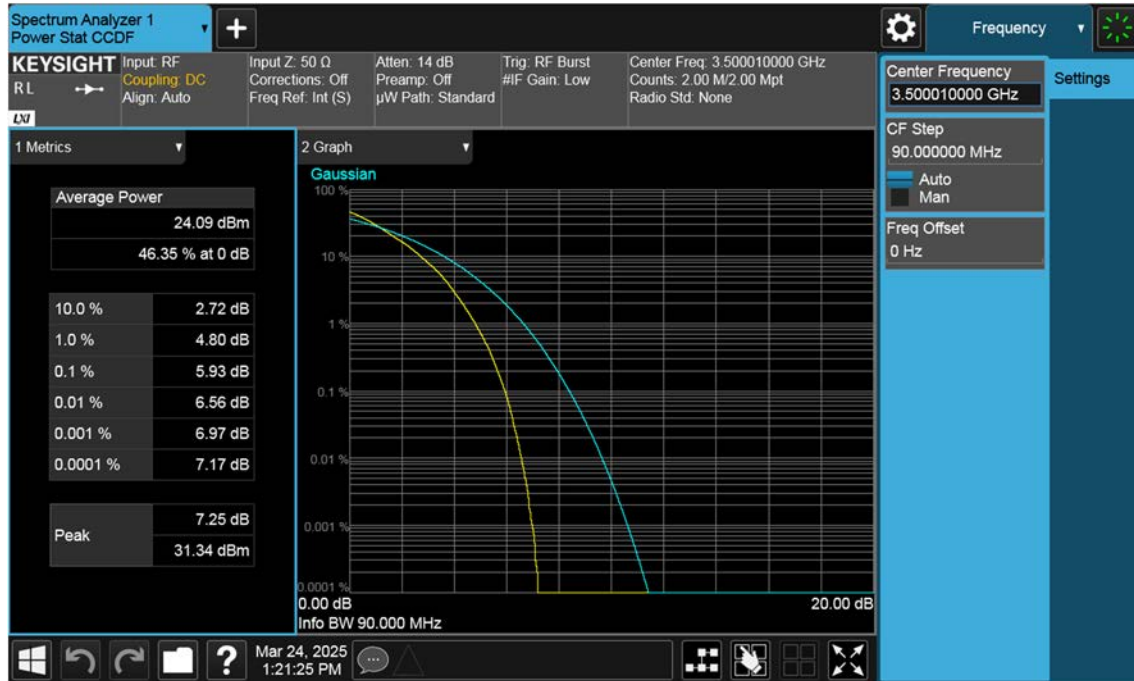
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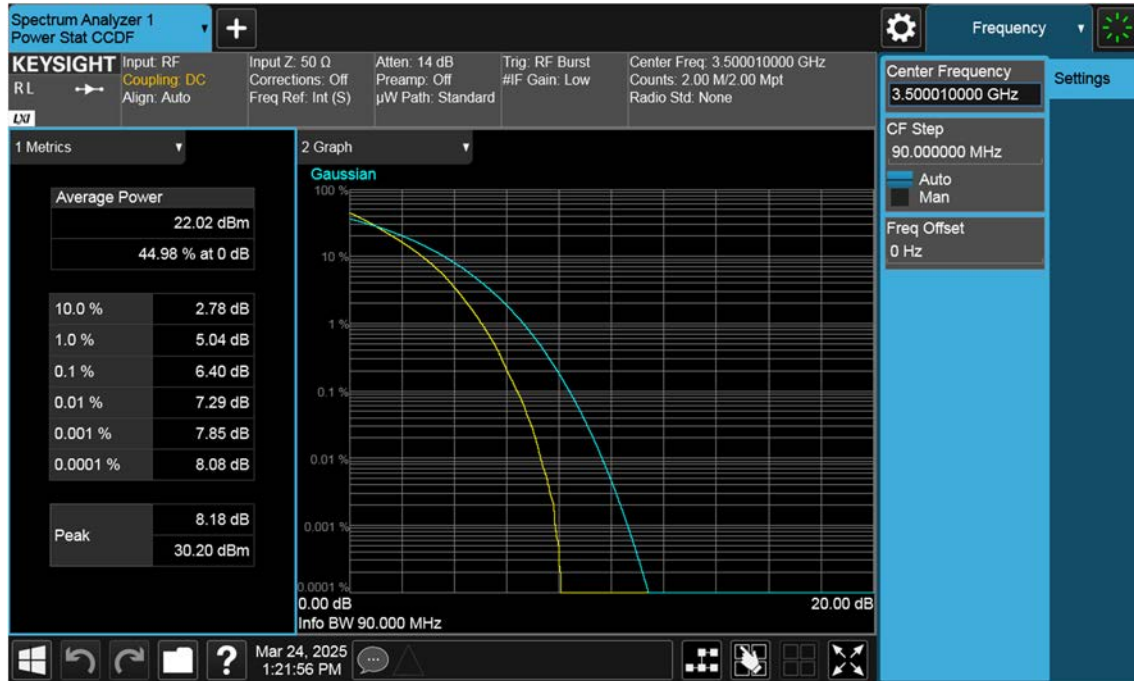
n77(3450~3550 MHz)_90 M_PAR_Mid_16QAM_FullRB



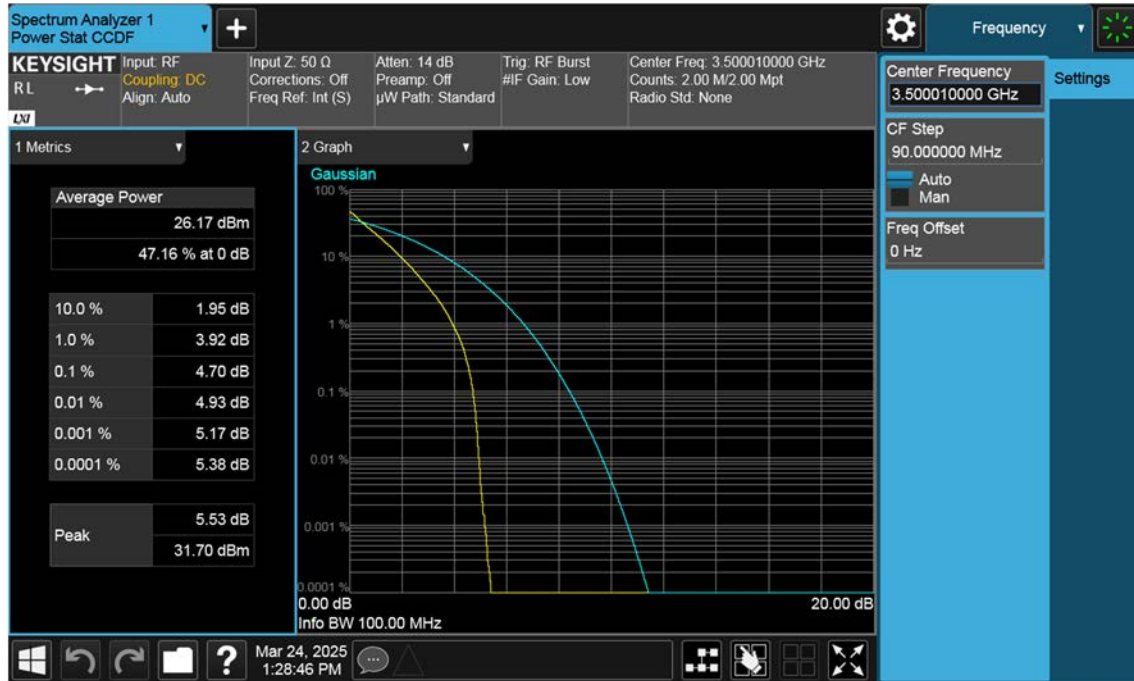
n77(3450~3550 MHz)_90 M_PAR_Mid_64QAM_FullRB



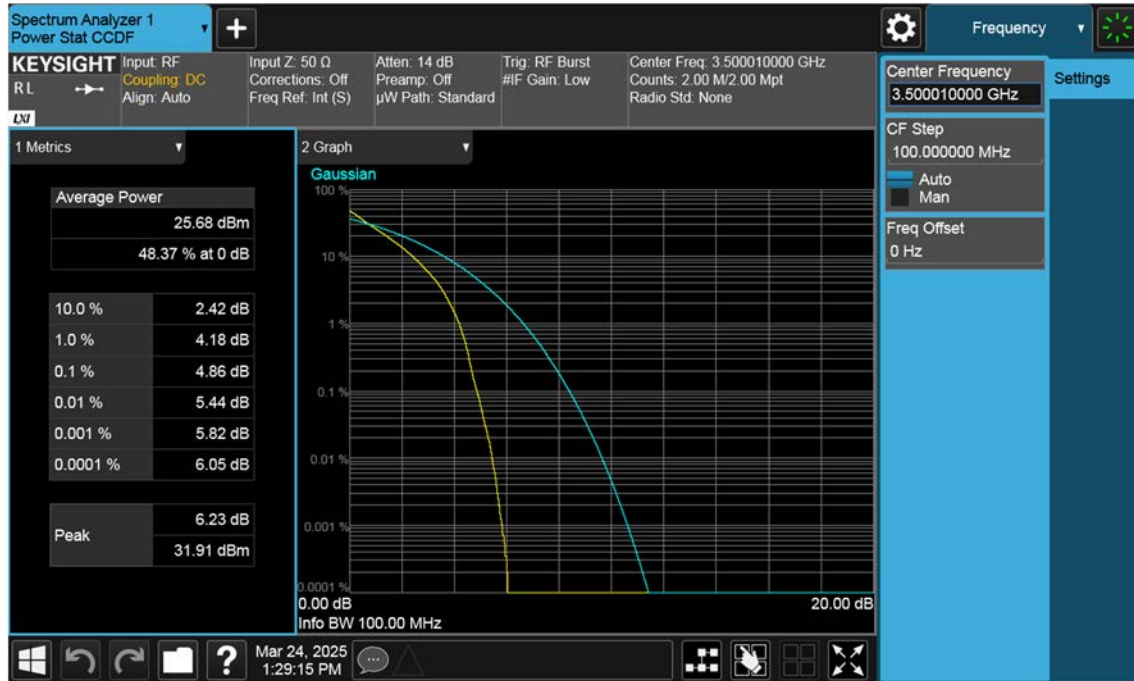
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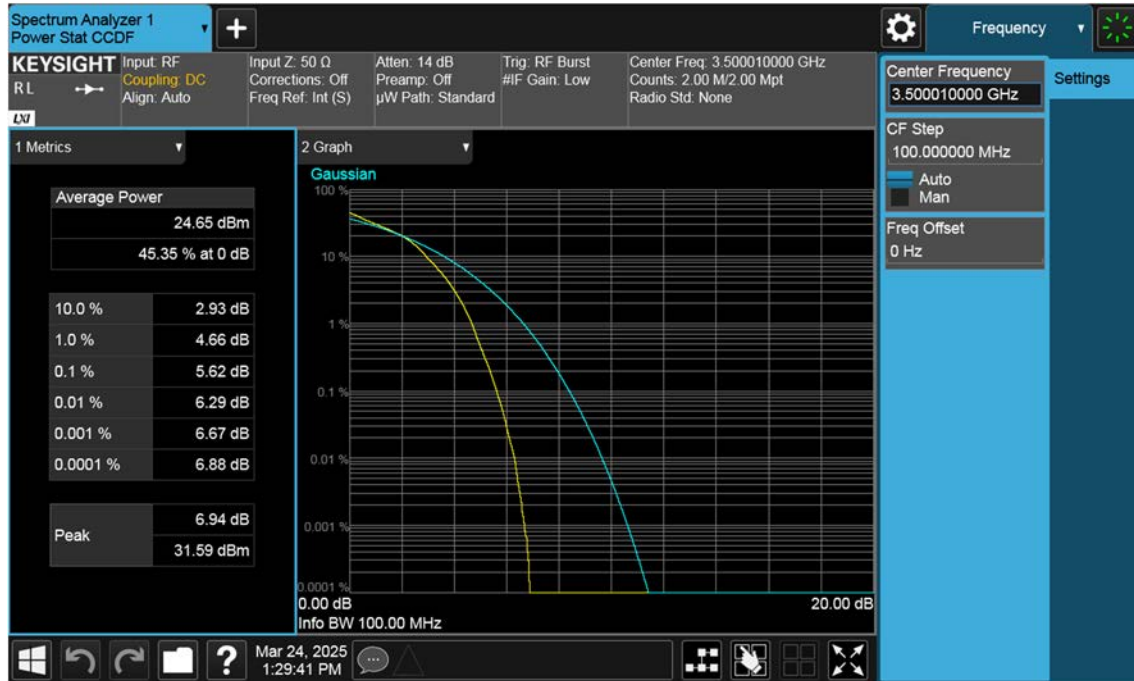
n77(3450~3550 MHz)_100 M_PAR_Mid_BPSK_FullRB



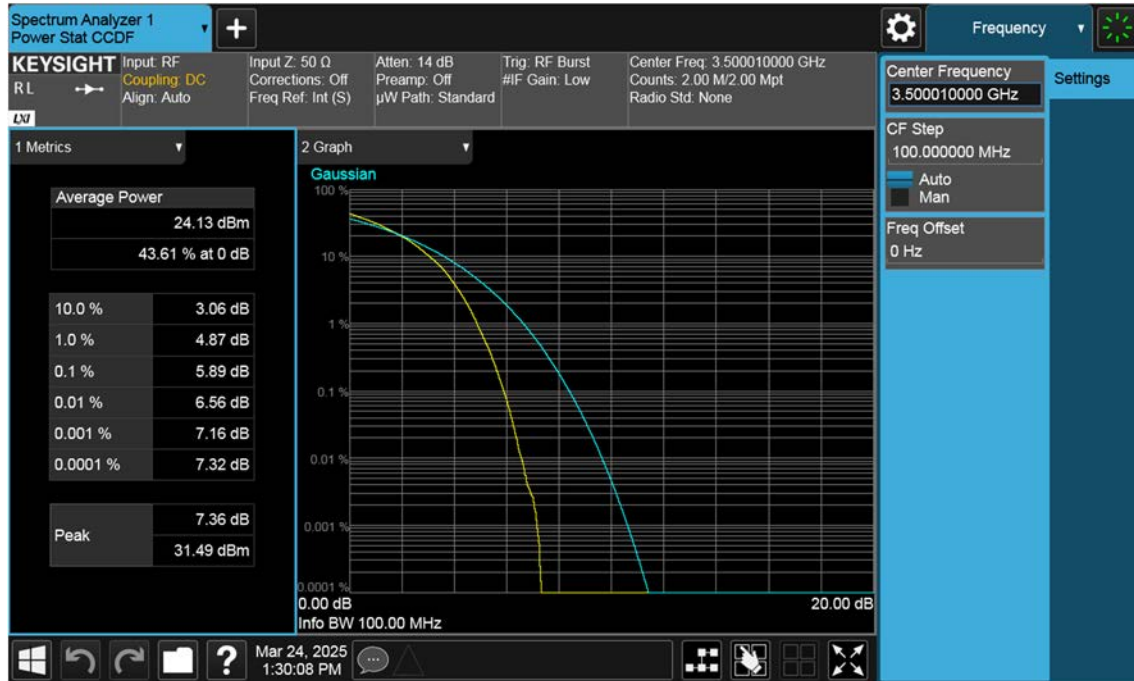
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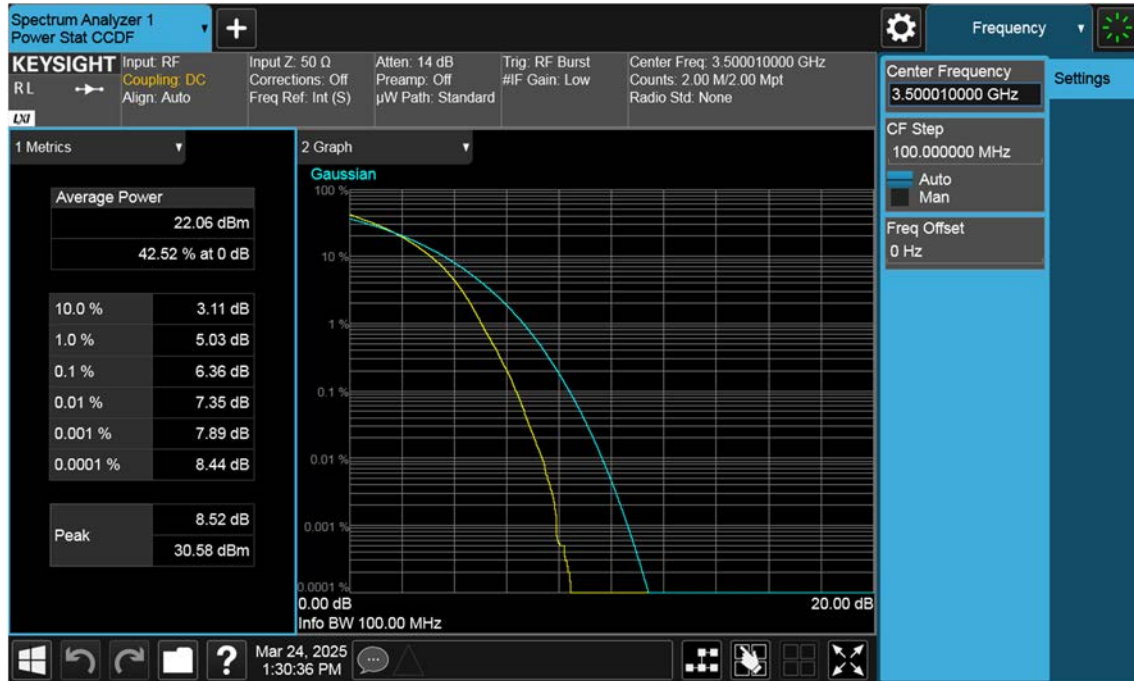
n77(3450~3550 MHz)_100 M_PAR_Mid_16QAM_FullRB



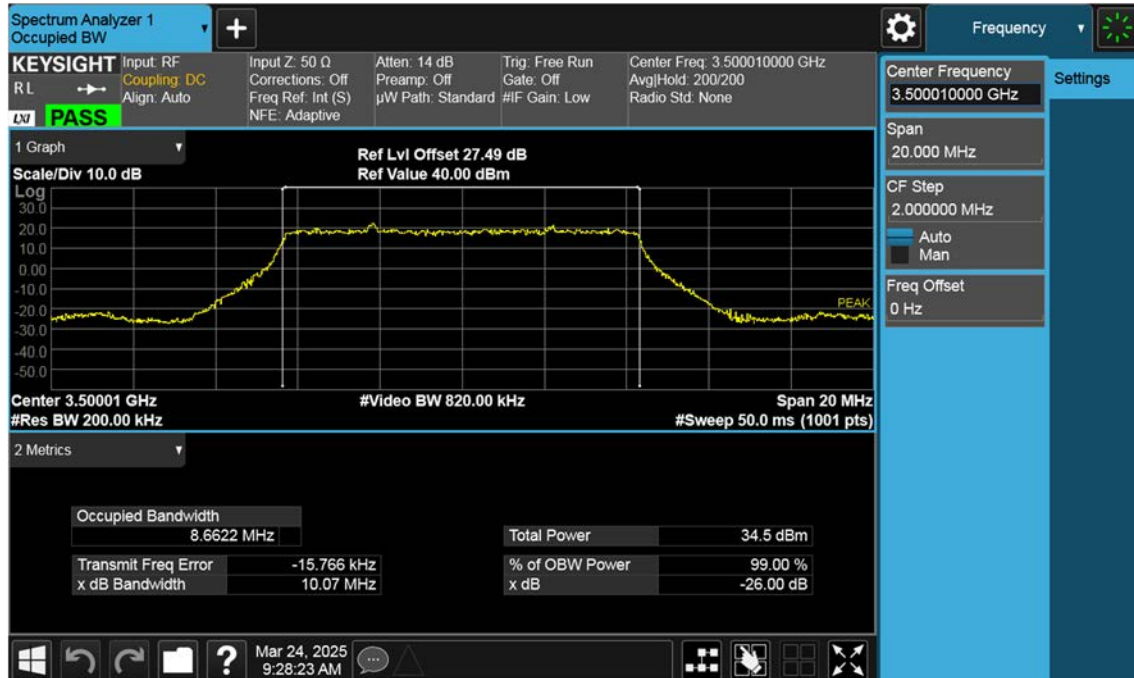
n77(3450~3550 MHz)_100 M_PAR_Mid_64QAM_FullRB



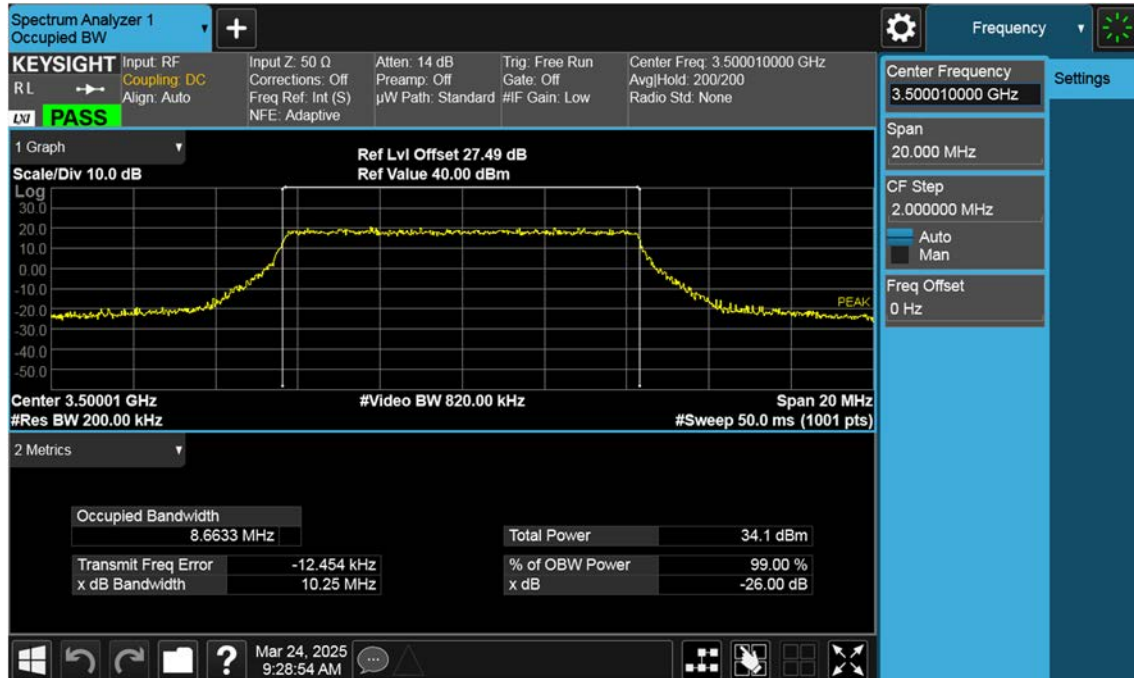
n77(3450~3550 MHz)_100 M_PAR_Mid_256QAM_FullRB



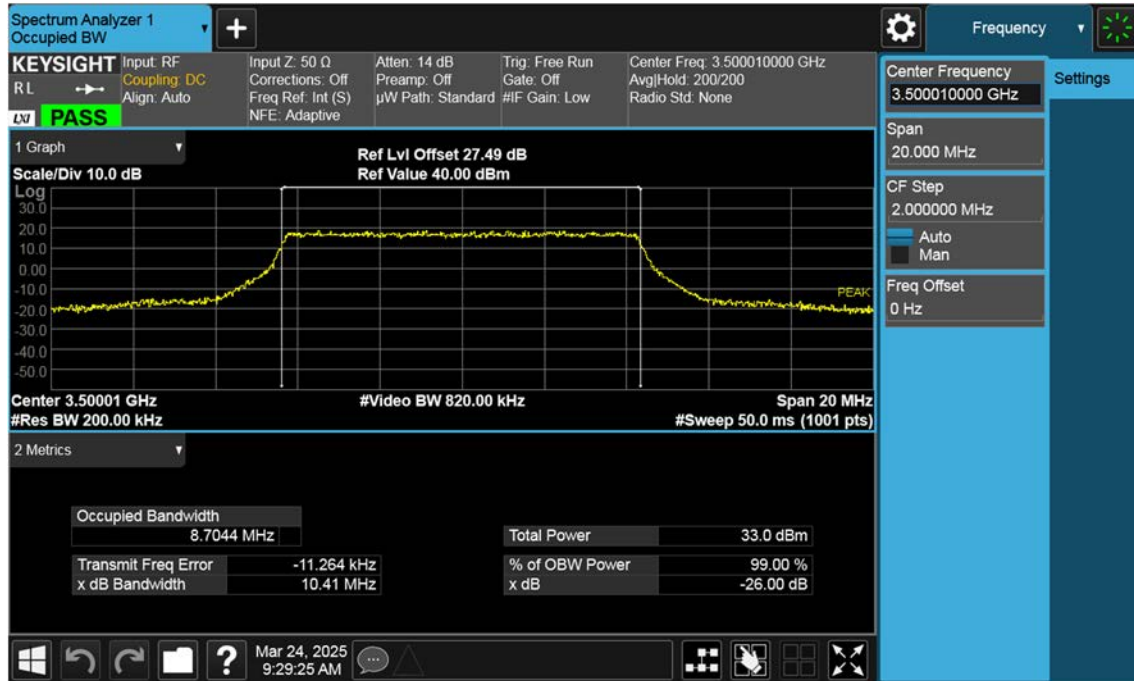
n77(3450~3550 MHz)_10 M_OBW_Mid_BPSK_FullRB



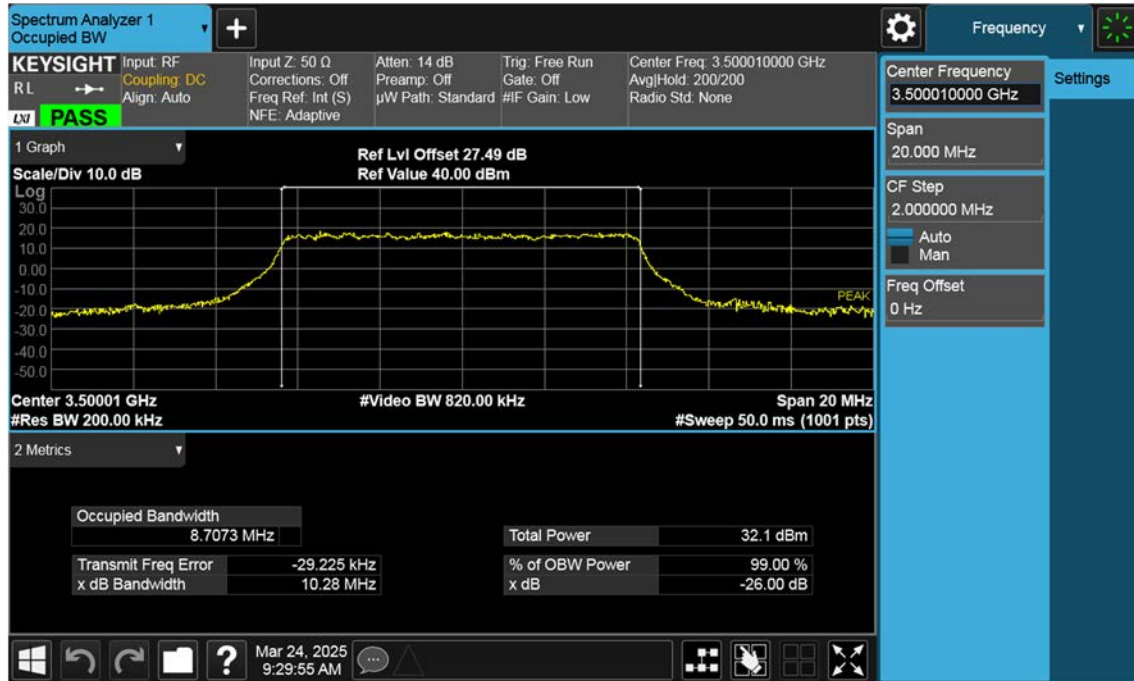
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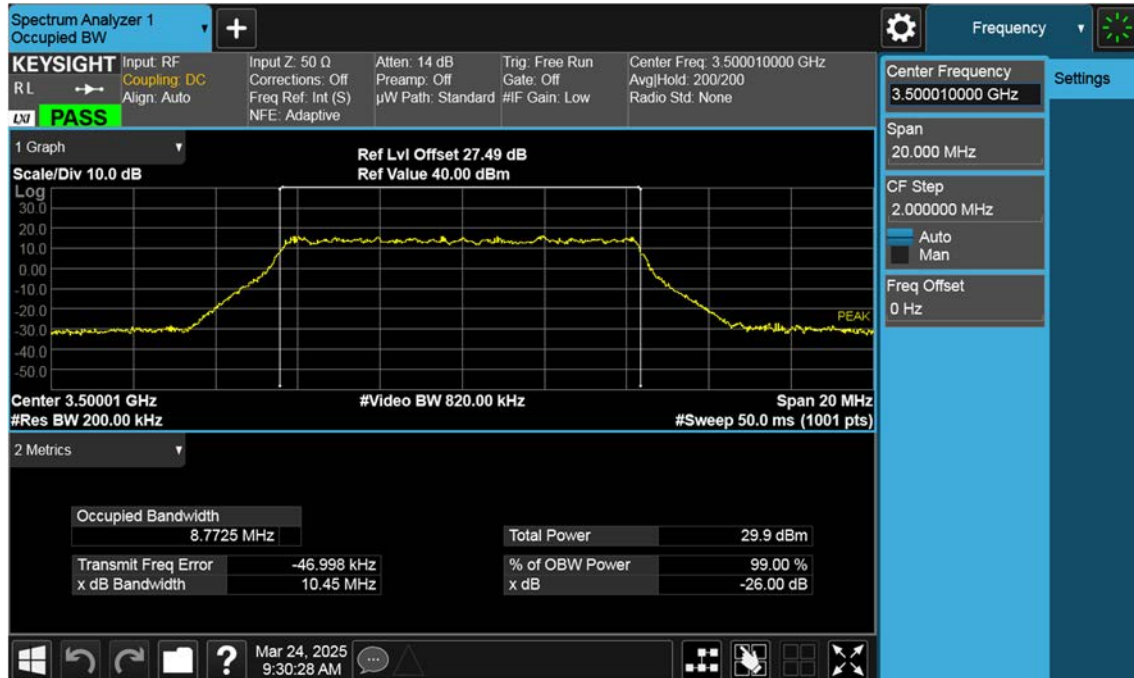
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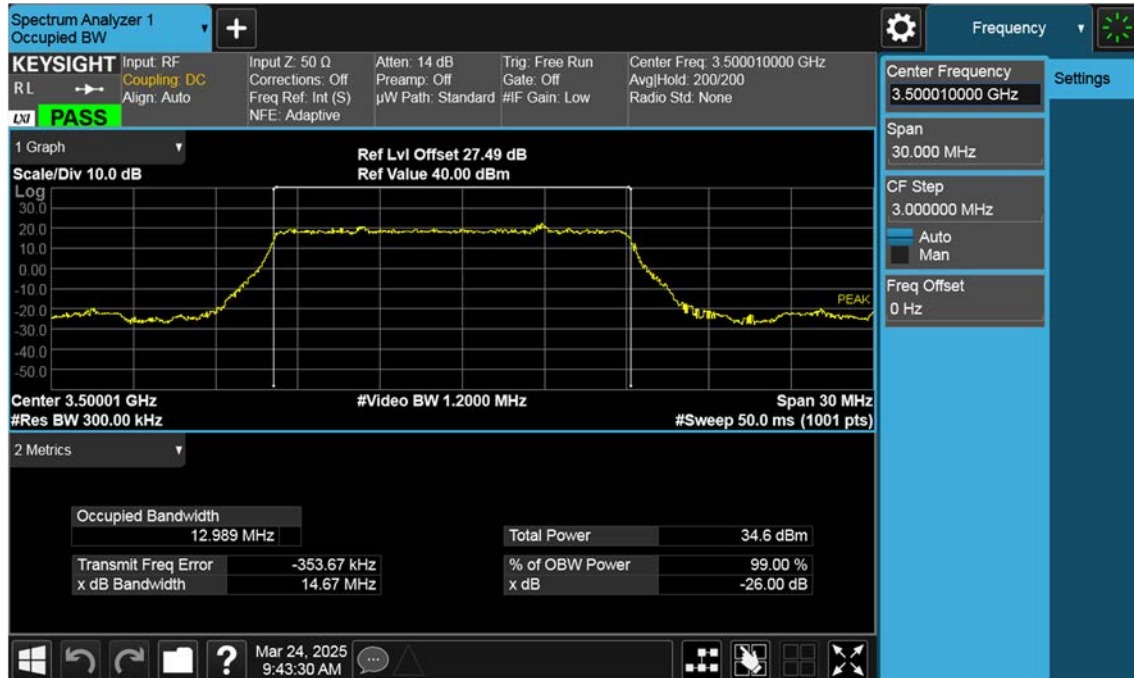
n77(3450~3550 MHz)_10 M_OBW_Mid_64QAM_FullRB



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

