

TEST REPORT

FCC Sub6 n77 Test for SM-F761B
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2505-FC043

DATE OF ISSUE
May 8, 2025

Tested by
Jung Ki Lim



Technical Manager
Jong Seok Lee



HCT CO., LTD.
Bongjai Huh
BongJai Huh / CEO

**HCT CO.,LTD.**

2-6, 73, 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea
Tel. +82 31 645 6300 Fax. +82 31 645 6401

TEST REPORT

REPORT NO.

HCT-RF-2505-FC043

DATE OF ISSUE

May 8, 2025

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-F761B

Date of Test

February 26, 2025 ~ April 28, 2025

FCC ID

A3LSMF761B

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	May 8, 2025	Initial Release

Notice

Content

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

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

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

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

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

Information provided by the applicant is marked **.

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

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

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

CONTENTS

1. GENERAL INFORMATION	5
1.1. MAXIMUM OUTPUT POWER.....	6
2. INTRODUCTION	8
2.1. DESCRIPTION OF EUT	8
2.2. MEASURING INSTRUMENT CALIBRATION	8
2.3. TEST FACILITY	8
3. DESCRIPTION OF TESTS	9
3.1 TEST PROCEDURE.....	9
3.2 RADIATED POWER	10
3.3 RADIATED SPURIOUS EMISSIONS	11
3.4 PEAK- TO- AVERAGE RATIO.....	12
3.5 OCCUPIED BANDWIDTH.	14
3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL.....	15
3.7 BAND EDGE.....	16
3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE	18
3.9 WORST CASE(RADIATED TEST).....	19
3.10 WORST CASE(CONDUCTED TEST)	21
4. LIST OF TEST EQUIPMENT	23
5. MEASUREMENT UNCERTAINTY	24
6. SUMMARY OF TEST RESULTS	25
7. SAMPLE CALCULATION	26
8. TEST DATA(3450 MHz - 3550 MHz).....	28
8.1 EQUIVALENT ISOTROPIC RADIATED POWER	28
8.2 RADIATED SPURIOUS EMISSIONS	40
8.3 PEAK-TO-AVERAGE RATIO	41
8.4 OCCUPIED BANDWIDTH	43
8.5 CONDUCTED SPURIOUS EMISSIONS	45
8.6 BAND EDGE.....	46
8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE	47
9. TEST DATA (3700 MHz - 3980 MHz).....	59
9.1 EQUIVALENT ISOTROPIC RADIATED POWER	59
9.2 RADIATED SPURIOUS EMISSIONS	71
9.3 PEAK-TO-AVERAGE RATIO	72
9.4 OCCUPIED BANDWIDTH	74
9.5 CONDUCTED SPURIOUS EMISSIONS	76
9.6 BAND EDGE.....	77
9.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE	78
10. TEST PLOTS(3450 MHz - 3550 MHz).....	90
11. TEST PLOTS(3700 MHz - 3980 MHz).....	423
12. ANNEX A_ TEST SETUP PHOTO	760

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:	A3LSMF761B
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§ 27
EUT Type:	Mobile Phone
Model(s):	SM-F761B
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(10 MHz)) 3457.50 MHz – 3542.50 MHz (Sub6 n77(15 MHz)) 3460.02 MHz – 3540.00 MHz (Sub6 n77(20 MHz)) 3462.50 MHz – 3537.50 MHz (Sub6 n77(25 MHz)) 3465.00 MHz – 3534.99 MHz (Sub6 n77(30 MHz)) 3470.01 MHz – 3529.98 MHz (Sub6 n77(40 MHz)) 3475.02 MHz – 3525.00 MHz (Sub6 n77(50 MHz)) 3480.00 MHz – 3519.99 MHz (Sub6 n77(60 MHz)) 3485.01 MHz – 3514.98 MHz (Sub6 n77(70 MHz)) 3490.02 MHz – 3510.00 MHz (Sub6 n77(80 MHz)) 3495.00 MHz – 3504.99 MHz (Sub6 n77(90 MHz)) 3500.01 MHz (Sub6 n77(100 MHz))
Tx Frequency: (3700 MHz - 3980 MHz)	3705.00 MHz – 3975.00 MHz (Sub6 n77(10 MHz)) 3707.51 MHz – 3972.48 MHz (Sub6 n77(15 MHz)) 3710.01 MHz – 3969.99 MHz (Sub6 n77(20 MHz)) 3712.50 MHz – 3967.50 MHz (Sub6 n77(25 MHz)) 3715.02 MHz – 3964.98 MHz (Sub6 n77(30 MHz)) 3720.00 MHz – 3960.00 MHz (Sub6 n77(40 MHz)) 3725.10 MHz – 3954.99 MHz (Sub6 n77(50 MHz)) 3730.02 MHz – 3949.98 MHz (Sub6 n77(60 MHz)) 3735.00 MHz – 3945.00 MHz (Sub6 n77(70 MHz)) 3740.01 MHz – 3939.99 MHz (Sub6 n77(80 MHz)) 3745.02 MHz – 3934.98 MHz (Sub6 n77(90 MHz)) 3745.02 MHz – 3934.98 MHz (Sub6 n77(90 MHz)) 3750.00 MHz – 3930.00 MHz (Sub6 n77(100 MHz))
Date(s) of Tests:	February 26, 2025 ~ April 28, 2025
Serial number:	Radiated : - 3450 MHz - 3550 MHz (R3CY20BS0BY) - 3700 MHz - 3980 MHz (EIRP : 8caddb945b3a7ece, RSE : R3CY20BS0BY) Conducted : R3CY20BQFGJ
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 (10)	3455.01 – 3544.99	8M68G7D	PI/2 BPSK	0.258	24.11
		8M68G7D	QPSK	0.252	24.02
		8M75W7D	16QAM	0.200	23.02
		8M68W7D	64QAM	0.137	21.38
		8M71W7D	256QAM	0.086	19.34
Sub6 n77 (15)	3457.50 – 3542.50	13M0G7D	PI/2 BPSK	0.257	24.10
		13M0G7D	QPSK	0.247	23.93
		13M0W7D	16QAM	0.201	23.04
		13M0W7D	64QAM	0.142	21.52
		13M0W7D	256QAM	0.087	19.39
Sub6 n77 (20)	3460.02 – 3540.00	18M0G7D	PI/2 BPSK	0.258	24.11
		18M0G7D	QPSK	0.244	23.88
		18M0W7D	16QAM	0.195	22.91
		18M0W7D	64QAM	0.139	21.43
		18M0W7D	256QAM	0.088	19.44
Sub6 n77 (25)	3462.50 – 3537.50	23M0G7D	PI/2 BPSK	0.252	24.01
		23M1G7D	QPSK	0.248	23.95
		23M0W7D	16QAM	0.204	23.09
		23M0W7D	64QAM	0.141	21.50
		23M0W7D	256QAM	0.088	19.46
Sub6 n77 (30)	3465.00 – 3534.99	27M0G7D	PI/2 BPSK	0.247	23.93
		27M0G7D	QPSK	0.246	23.91
		27M1W7D	16QAM	0.196	22.92
		26M9W7D	64QAM	0.141	21.50
		27M0W7D	256QAM	0.084	19.22
Sub6 n77 (40)	3470.01 – 3529.98	35M9G7D	PI/2 BPSK	0.251	23.99
		35M9G7D	QPSK	0.245	23.90
		35M9W7D	16QAM	0.203	23.08
		35M8W7D	64QAM	0.138	21.39
		36M0W7D	256QAM	0.087	19.39
Sub6 n77 (50)	3475.02 – 3525.00	46M0G7D	PI/2 BPSK	0.256	24.09
		45M9G7D	QPSK	0.255	24.06
		46M0W7D	16QAM	0.203	23.07
		46M1W7D	64QAM	0.142	21.53
		46M0W7D	256QAM	0.091	19.59
Sub6 n77 (60)	3480.00 – 3519.99	58M2G7D	PI/2 BPSK	0.271	24.33
		58M2G7D	QPSK	0.261	24.16
		58M2W7D	16QAM	0.202	23.06
		58M2W7D	64QAM	0.143	21.56
		58M2W7D	256QAM	0.092	19.63
Sub6 n77 (70)	3485.01 – 3514.98	64M9G7D	PI/2 BPSK	0.274	24.38
		64M8G7D	QPSK	0.274	24.37
		64M5W7D	16QAM	0.207	23.15
		64M7W7D	64QAM	0.150	21.76
		64M9W7D	256QAM	0.091	19.61
Sub6 n77 (80)	3490.02 – 3510.00	77M7G7D	PI/2 BPSK	0.274	24.37
		77M7G7D	QPSK	0.267	24.27
		77M5W7D	16QAM	0.209	23.20
		77M5W7D	64QAM	0.141	21.49
		77M5W7D	256QAM	0.091	19.58
Sub6 n77 (90)	3495.00 – 3504.99	87M3G7D	PI/2 BPSK	0.273	24.36
		87M2G7D	QPSK	0.270	24.32
		87M4W7D	16QAM	0.220	23.42
		87M2W7D	64QAM	0.151	21.78
		87M4W7D	256QAM	0.094	19.72
Sub6 n77 (100)	3500.01	96M9G7D	PI/2 BPSK	0.260	24.15
		96M9G7D	QPSK	0.255	24.07
		96M7W7D	16QAM	0.217	23.37
		96M7W7D	64QAM	0.150	21.76
		96M8W7D	256QAM	0.089	19.47

2. 3700 MHz - 3980 MHz

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n77 (10)	3705.00 – 3975.00	8M65G7D	PI/2 BPSK	0.326	25.13
		8M65G7D	QPSK	0.317	25.01
		8M71W7D	16QAM	0.259	24.14
		8M65W7D	64QAM	0.178	22.50
		8M63W7D	256QAM	0.114	20.56
Sub6 n77 (15)	3707.51 – 3972.48	12M9G7D	PI/2 BPSK	0.325	25.12
		13M0G7D	QPSK	0.324	25.10
		12M9W7D	16QAM	0.253	24.03
		13M0W7D	64QAM	0.182	22.61
		12M9W7D	256QAM	0.111	20.47
Sub6 n77 (20)	3710.01 – 3969.99	18M0G7D	PI/2 BPSK	0.322	25.08
		18M0G7D	QPSK	0.321	25.07
		18M0W7D	16QAM	0.261	24.17
		17M9W7D	64QAM	0.180	22.56
		17M9W7D	256QAM	0.117	20.70
Sub6 n77 (25)	3712.50 – 3967.50	23M0G7D	PI/2 BPSK	0.326	25.13
		23M0G7D	QPSK	0.324	25.10
		23M0W7D	16QAM	0.259	24.14
		23M0W7D	64QAM	0.182	22.61
		22M9W7D	256QAM	0.113	20.52
Sub6 n77 (30)	3715.02 – 3964.98	27M0G7D	PI/2 BPSK	0.318	25.02
		27M0G7D	QPSK	0.312	24.94
		27M0W7D	16QAM	0.246	23.91
		27M0W7D	64QAM	0.171	22.33
		26M9W7D	256QAM	0.109	20.38
Sub6 n77 (40)	3720.00 – 3960.00	35M9G7D	PI/2 BPSK	0.318	25.02
		35M9G7D	QPSK	0.311	24.93
		35M9W7D	16QAM	0.249	23.97
		35M9W7D	64QAM	0.174	22.41
		35M8W7D	256QAM	0.109	20.38
Sub6 n77 (50)	3725.10 – 3954.99	46M0G7D	PI/2 BPSK	0.322	25.08
		46M0G7D	QPSK	0.316	25.00
		46M0W7D	16QAM	0.259	24.14
		46M0W7D	64QAM	0.178	22.51
		45M9W7D	256QAM	0.114	20.55
Sub6 n77 (60)	3730.02 – 3949.98	58M2G7D	PI/2 BPSK	0.324	25.11
		58M1G7D	QPSK	0.321	25.06
		58M1W7D	16QAM	0.248	23.95
		58M1W7D	64QAM	0.177	22.49
		58M1W7D	256QAM	0.110	20.40
Sub6 n77 (70)	3735.00 – 3945.00	64M7G7D	PI/2 BPSK	0.330	25.18
		64M7G7D	QPSK	0.329	25.17
		64M6W7D	16QAM	0.258	24.12
		64M8W7D	64QAM	0.189	22.77
		64M7W7D	256QAM	0.114	20.56
Sub6 n77 (80)	3740.01 – 3939.99	77M5G7D	PI/2 BPSK	0.333	25.23
		77M5G7D	QPSK	0.329	25.17
		77M4W7D	16QAM	0.265	24.23
		77M5W7D	64QAM	0.179	22.54
		77M5W7D	256QAM	0.116	20.63
Sub6 n77 (90)	3745.02 – 3934.98	87M3G7D	PI/2 BPSK	0.330	25.18
		87M3G7D	QPSK	0.327	25.15
		87M1W7D	16QAM	0.264	24.22
		87M3W7D	64QAM	0.179	22.52
		87M3W7D	256QAM	0.115	20.62
Sub6 n77 (100)	3750.00 – 3930.00	97M0G7D	PI/2 BPSK	0.333	25.22
		96M8G7D	QPSK	0.327	25.15
		96M5W7D	16QAM	0.267	24.26
		96M8W7D	64QAM	0.184	22.64
		96M9W7D	256QAM	0.114	20.58

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

Please refer to the [2G3G] Test Report.

2.2. MEASURING INSTRUMENT CALIBRATION

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

2.3. TEST FACILITY

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

3. DESCRIPTION OF TESTS

3.1 TEST PROCEDURE

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

3.2 RADIATED POWER

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

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

Test Settings

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

Test Note

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

The power is calculated by the following formula;

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

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

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

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

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

3.3 RADIATED SPURIOUS EMISSIONS

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method.

Test Settings

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

Test Note

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

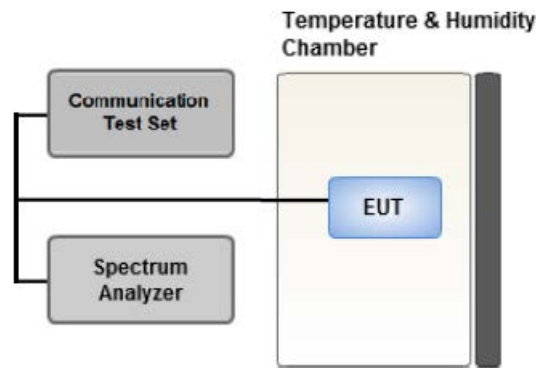
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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

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

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

3.4 PEAK- TO- AVERAGE RATIO



Test setup

① CCDF Procedure for PAPR

Test Settings

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

② Alternate Procedure for PAPR

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

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

Test Settings(Peak Power)

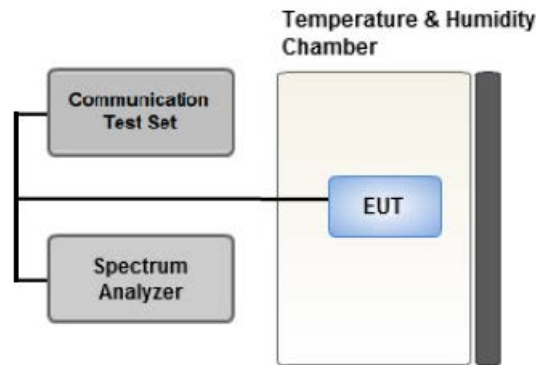
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

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

Test Settings(Average Power)

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

3.5 OCCUPIED BANDWIDTH.



Test setup

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

The EUT makes a call to the communication simulator.

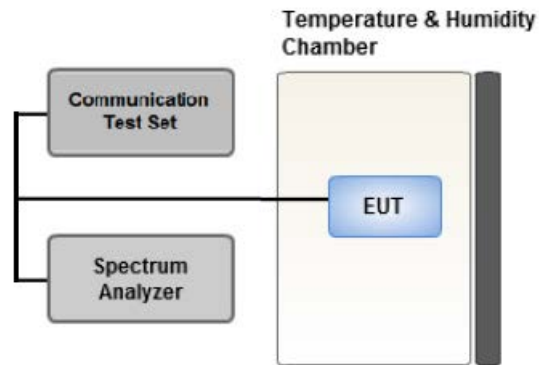
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

Test Settings

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

3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

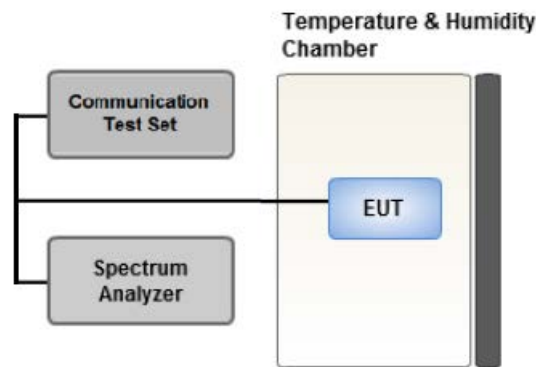
Test Overview

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

Test Settings

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

3.7 BAND EDGE



Test setup

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Settings

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

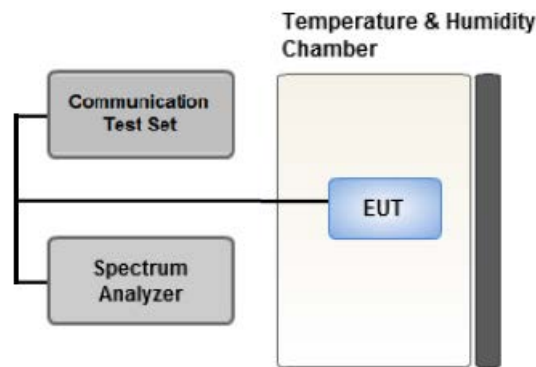
However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz.

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

3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



Test setup

Test Overview

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

The frequency stability of the transmitter is measured by:

1. Temperature:

The temperature is varied from -30 °C to +50 °C in 10 °C increments using an environmental chamber.

2. Primary Supply Voltage:

- .- Unless otherwise specified, vary primary supply voltage from 85 % to 115 % of the nominal value for other than hand carried battery equipment.
- .- For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.

Test Settings

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

3.9 WORST CASE(RADIATED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
(Worst case: DFT-S-OFDM)
- The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
- 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
- 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 (Closed), 3700 ~ 3980 MHz (Open)
- 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 : 70 MHz(3450 MHz – 3550 MHz), 80 MHz (3700 MHz – 3980 MHz))

[3450 MHz - 3550 MHz Worst case]

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

[3700 MHz - 3980 MHz Worst case]

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

3.10 WORST CASE(CONDUCTED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
(Worst case: DFT-S-OFDM)
- Modulation : All Modulation of operation were investigated and the worst case configuration results are reported.
(Worst case: PI/2 BPSK)
- 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.

[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	See Note1
Peak- to- Average Ratio	§ 27.50(k)(4), § 27.50(j)(4)	< 13 dB	PASS
Frequency stability / variation of ambient temperature	§ 2.1055, § 27.54	Emission must remain in band	PASS

Note:

1. 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.

6.3 Data Referencing

Rule Part	Test item	Data Referencing	Comments
§ 2.1049	Occupied Bandwidth	Y	Spot-check
§ 2.1051, § 27.53(n)(2), § 27.53(l)(2)	Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	Y	Spot-check
§ 27.50(k)(4), § 27.50(j)(4)	Peak- to- Average Ratio	Y	Spot-check
§ 2.1055, § 27.54	Frequency stability / variation of ambient temperature	Y	Spot-check
§ 27.50(k)(3), § 27.50(j)(3)	Equivalent Isotropic Radiated Power	Y	Spot-check
§ 2.1051, § 27.53(n)(2), § 27.53(l)(2)	Radiated Spurious and Harmonic Emissions	Y	Spot-check
§ 2.1046	Conducted Output Power	Y	-

Spot-Check Result

1. Data was leveraged from model SM-F761U for the certification of SM-F761B.
2. Please refer to the [FCC Evaluation] Report.

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		PI/2 BPSK	-23.06	14.92	11.96	3.04	H	< 1.00	0.242	23.84	1	1
		QPSK	-23.09	14.89	11.96	3.04	H		0.240	23.81		
		16-QAM	-23.90	14.08	11.96	3.04	H		0.200	23.00		
		64-QAM	-25.57	12.41	11.96	3.04	H		0.136	21.33		
		256-QAM	-27.56	10.42	11.96	3.04	H		0.086	19.34		
3500.01	Sub6 n77/ 10 MHz [30 kHz]	PI/2 BPSK	-23.21	15.11	12.04	3.04	H	< 1.00	0.258	24.11	1	12
		QPSK	-23.30	15.02	12.04	3.04	H		0.252	24.02		
		16-QAM	-24.30	14.02	12.04	3.04	H		0.200	23.02		
		64-QAM	-25.94	12.38	12.04	3.04	H		0.137	21.38		
		256-QAM	-28.07	10.25	12.04	3.04	H		0.084	19.25		
3544.99		PI/2 BPSK	-23.68	14.67	12.04	3.07	H	< 1.00	0.231	23.64	1	12
		QPSK	-23.82	14.53	12.04	3.07	H		0.224	23.50		
		16-QAM	-24.85	13.50	12.04	3.07	H		0.177	22.47		
		64-QAM	-26.69	11.66	12.04	3.07	H		0.116	20.63		
		256-QAM	-28.42	9.93	12.04	3.07	H		0.078	18.90		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3457.50	Sub6 n77/ 15 MHz [30 kHz]	PI/2 BPSK	-22.92	15.09	12.00	3.04	H	< 1.00	0.254	24.05	1	36
		QPSK	-23.18	14.83	12.00	3.04	H		0.239	23.79		
		16-QAM	-24.15	13.86	12.00	3.04	H		0.191	22.82		
		64-QAM	-25.45	12.56	12.00	3.04	H		0.142	21.52		
		256-QAM	-27.63	10.38	12.00	3.04	H		0.086	19.34		
3500.01		PI/2 BPSK	-23.22	15.10	12.04	3.04	H		0.257	24.10	1	1
		QPSK	-23.39	14.93	12.04	3.04	H		0.247	23.93		
		16-QAM	-24.28	14.04	12.04	3.04	H		0.201	23.04		
		64-QAM	-25.80	12.52	12.04	3.04	H		0.142	21.52		
		256-QAM	-27.93	10.39	12.04	3.04	H		0.087	19.39		
3542.50		PI/2 BPSK	-23.76	14.59	12.04	3.07	H		0.227	23.56	1	19
		QPSK	-24.01	14.34	12.04	3.07	H		0.214	23.31		
		16-QAM	-24.94	13.41	12.04	3.07	H		0.173	22.38		
		64-QAM	-26.63	11.72	12.04	3.07	H		0.117	20.69		
		256-QAM	-28.72	9.63	12.04	3.07	H		0.072	18.60		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3460.02	Sub6 n77/ 20 MHz [30 kHz]	PI/2 BPSK	-22.86	15.15	12.00	3.04	H	< 1.00	0.258	24.11	1	25
		QPSK	-23.12	14.89	12.00	3.04	H		0.243	23.85		
		16-QAM	-24.06	13.95	12.00	3.04	H		0.195	22.91		
		64-QAM	-25.54	12.47	12.00	3.04	H		0.139	21.43		
		256-QAM	-27.68	10.33	12.00	3.04	H		0.085	19.29		
3500.01		PI/2 BPSK	-23.36	14.96	12.04	3.04	H		0.249	23.96	1	25
		QPSK	-23.44	14.88	12.04	3.04	H		0.244	23.88		
		16-QAM	-24.41	13.91	12.04	3.04	H		0.195	22.91		
		64-QAM	-25.94	12.38	12.04	3.04	H		0.137	21.38		
		256-QAM	-27.88	10.44	12.04	3.04	H		0.088	19.44		
3540.00		PI/2 BPSK	-23.75	14.53	12.04	3.06	H		0.224	23.51	1	1
		QPSK	-23.80	14.48	12.04	3.06	H		0.222	23.46		
		16-QAM	-24.86	13.42	12.04	3.06	H		0.174	22.40		
		64-QAM	-26.39	11.89	12.04	3.06	H		0.122	20.87		
		256-QAM	-28.37	9.91	12.04	3.06	H		0.077	18.89		

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/ 25 MHz [30 kHz]	PI/2 BPSK	-22.99	15.01	12.02	3.02	H	< 1.00	0.252	24.01	1	32
		QPSK	-23.11	14.89	12.02	3.02	H		0.245	23.89		
		16-QAM	-23.91	14.09	12.02	3.02	H		0.204	23.09		
		64-QAM	-25.50	12.50	12.02	3.02	H		0.141	21.50		
		256-QAM	-27.65	10.35	12.02	3.02	H		0.086	19.35		
3500.01		PI/2 BPSK	-23.32	15.00	12.04	3.04	H		0.251	24.00	1	32
		QPSK	-23.37	14.95	12.04	3.04	H		0.248	23.95		
		16-QAM	-24.39	13.93	12.04	3.04	H		0.196	22.93		
		64-QAM	-25.95	12.37	12.04	3.04	H		0.137	21.37		
		256-QAM	-27.86	10.46	12.04	3.04	H		0.088	19.46		
3537.50		PI/2 BPSK	-23.66	14.62	12.04	3.06	H		0.229	23.60	1	1
		QPSK	-23.76	14.52	12.04	3.06	H		0.224	23.50		
		16-QAM	-24.82	13.46	12.04	3.06	H		0.175	22.44		
		64-QAM	-26.51	11.77	12.04	3.06	H		0.119	20.75		
		256-QAM	-28.52	9.76	12.04	3.06	H		0.075	18.74		

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	Sub6 n77/ 30 MHz [30 kHz]	PI/2 BPSK	-23.10	14.90	12.02	3.02	H	< 1.00	0.246	23.90	1	39
		QPSK	-23.15	14.85	12.02	3.02	H		0.243	23.85		
		16-QAM	-24.08	13.92	12.02	3.02	H		0.196	22.92		
		64-QAM	-25.78	12.22	12.02	3.02	H		0.132	21.22		
		256-QAM	-27.78	10.22	12.02	3.02	H		0.084	19.22		
3500.01		PI/2 BPSK	-23.39	14.93	12.04	3.04	H		0.247	23.93	1	1
		QPSK	-23.41	14.91	12.04	3.04	H		0.246	23.91		
		16-QAM	-24.56	13.76	12.04	3.04	H		0.189	22.76		
		64-QAM	-25.82	12.50	12.04	3.04	H		0.141	21.50		
		256-QAM	-28.22	10.10	12.04	3.04	H		0.081	19.10		
3534.99	PI/2 BPSK	-23.65	14.65	12.04	3.05	H	0.231	23.64	1	1		
	QPSK	-23.67	14.63	12.04	3.05	H	0.230	23.62				
	16-QAM	-24.71	13.59	12.04	3.05	H	0.181	22.58				
	64-QAM	-26.28	12.02	12.04	3.05	H	0.126	21.01				
	256-QAM	-28.28	10.02	12.04	3.05	H	0.080	19.01				

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3470.01	Sub6 n77/ 40 MHz [30 kHz]	PI/2 BPSK	-23.08	14.92	12.04	3.01	H	< 1.00	0.248	23.95	1	1
		QPSK	-23.13	14.87	12.04	3.01	H		0.246	23.90		
		16-QAM	-24.24	13.76	12.04	3.01	H		0.190	22.79		
		64-QAM	-25.64	12.36	12.04	3.01	H		0.138	21.39		
		256-QAM	-27.64	10.36	12.04	3.01	H		0.087	19.39		
3500.01		PI/2 BPSK	-23.33	14.99	12.04	3.04	H		0.251	23.99	1	1
		QPSK	-23.42	14.90	12.04	3.04	H		0.246	23.90		
		16-QAM	-24.24	14.08	12.04	3.04	H		0.203	23.08		
		64-QAM	-26.02	12.30	12.04	3.04	H		0.135	21.30		
		256-QAM	-28.04	10.28	12.04	3.04	H		0.085	19.28		
3529.98		PI/2 BPSK	-23.65	14.67	12.04	3.05	H		0.232	23.66	1	1
		QPSK	-23.70	14.62	12.04	3.05	H		0.230	23.61		
		16-QAM	-24.56	13.76	12.04	3.05	H		0.188	22.75		
		64-QAM	-26.25	12.07	12.04	3.05	H		0.128	21.06		
		256-QAM	-28.07	10.25	12.04	3.05	H		0.084	19.24		

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/ 50 MHz [30 kHz]	PI/2 BPSK	-22.97	15.05	12.04	3.02	H	< 1.00	0.255	24.07	1	1
		QPSK	-23.06	14.96	12.04	3.02	H		0.250	23.98		
		16-QAM	-24.07	13.95	12.04	3.02	H		0.198	22.97		
		64-QAM	-25.62	12.40	12.04	3.02	H		0.139	21.42		
		256-QAM	-27.66	10.36	12.04	3.02	H		0.087	19.38		
3500.01		PI/2 BPSK	-23.25	15.07	12.04	3.04	H		0.255	24.07	1	1
		QPSK	-23.26	15.06	12.04	3.04	H		0.255	24.06		
		16-QAM	-24.25	14.07	12.04	3.04	H		0.203	23.07		
		64-QAM	-25.79	12.53	12.04	3.04	H		0.142	21.53		
		256-QAM	-27.73	10.59	12.04	3.04	H		0.091	19.59		
3525.00		PI/2 BPSK	-23.31	15.09	12.04	3.04	H		0.256	24.09	1	1
		QPSK	-23.40	15.00	12.04	3.04	H		0.251	24.00		
		16-QAM	-24.50	13.90	12.04	3.04	H		0.195	22.90		
		64-QAM	-26.02	12.38	12.04	3.04	H		0.137	21.38		
		256-QAM	-27.98	10.42	12.04	3.04	H		0.088	19.42		

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	Sub6 n77/ 60 MHz [30 kHz]	PI/2 BPSK	-23.04	14.99	12.04	3.02	H	< 1.00	0.252	24.01	1	1
		QPSK	-23.16	14.87	12.04	3.02	H		0.245	23.89		
		16-QAM	-23.99	14.04	12.04	3.02	H		0.202	23.06		
		64-QAM	-25.55	12.48	12.04	3.02	H		0.141	21.50		
		256-QAM	-27.51	10.52	12.04	3.02	H		0.090	19.54		
3500.01		PI/2 BPSK	-23.11	15.21	12.04	3.04	H		0.264	24.21	1	1
		QPSK	-23.37	14.95	12.04	3.04	H		0.248	23.95		
		16-QAM	-24.36	13.96	12.04	3.04	H		0.198	22.96		
		64-QAM	-25.80	12.52	12.04	3.04	H		0.142	21.52		
		256-QAM	-27.69	10.63	12.04	3.04	H		0.092	19.63		
3519.99		PI/2 BPSK	-23.16	15.33	12.04	3.04	H		0.271	24.33	1	1
		QPSK	-23.33	15.16	12.04	3.04	H		0.261	24.16		
		16-QAM	-24.43	14.06	12.04	3.04	H		0.202	23.06		
		64-QAM	-25.93	12.56	12.04	3.04	H		0.143	21.56		
		256-QAM	-28.17	10.32	12.04	3.04	H		0.086	19.32		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3485.01		PI/2 BPSK	-23.09	15.01	12.04	3.03	H	< 1.00	0.252	24.02	1	1
		QPSK	-23.10	15.00	12.04	3.03	H		0.252	24.01		
		16-QAM	-24.16	13.94	12.04	3.03	H		0.197	22.95		
		64-QAM	-25.37	12.73	12.04	3.03	H		0.149	21.74		
		256-QAM	-27.50	10.60	12.04	3.03	H		0.091	19.61		
3500.01	Sub6 n77/ 70 MHz [30 kHz]	PI/2 BPSK	-22.95	15.37	12.04	3.04	H	< 1.00	0.274	24.37	1	1
		QPSK	-23.07	15.25	12.04	3.04	H		0.266	24.25		
		16-QAM	-24.17	14.15	12.04	3.04	H		0.207	23.15		
		64-QAM	-25.56	12.76	12.04	3.04	H		0.150	21.76		
		256-QAM	-27.71	10.61	12.04	3.04	H		0.091	19.61		
3514.98		PI/2 BPSK	-23.14	15.38	12.04	3.04	H	< 1.00	0.274	24.38	1	1
		QPSK	-23.15	15.37	12.04	3.04	H		0.274	24.37		
		16-QAM	-24.45	14.07	12.04	3.04	H		0.203	23.07		
		64-QAM	-25.86	12.66	12.04	3.04	H		0.147	21.66		
		256-QAM	-27.92	10.60	12.04	3.04	H		0.091	19.60		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3490.02	Sub6 n77/ 80 MHz [30 kHz]	PI/2 BPSK	-23.18	14.99	12.04	3.04	H	< 1.00	0.251	23.99	1	108
		QPSK	-23.33	14.84	12.04	3.04	H		0.242	23.84		
		16-QAM	-24.37	13.80	12.04	3.04	H		0.191	22.80		
		64-QAM	-25.70	12.47	12.04	3.04	H		0.140	21.47		
		256-QAM	-27.68	10.49	12.04	3.04	H		0.089	19.49		
3500.01		PI/2 BPSK	-22.95	15.37	12.04	3.04	H		0.274	24.37	1	1
		QPSK	-23.09	15.23	12.04	3.04	H		0.265	24.23		
		16-QAM	-24.12	14.20	12.04	3.04	H		0.209	23.20		
		64-QAM	-25.83	12.49	12.04	3.04	H		0.141	21.49		
		256-QAM	-27.78	10.54	12.04	3.04	H		0.090	19.54		
3510.00		PI/2 BPSK	-23.23	15.34	12.04	3.05	H	0.271	24.33	1	108	
		QPSK	-23.29	15.28	12.04	3.05	H	0.267	24.27			
		16-QAM	-24.66	13.91	12.04	3.05	H	0.195	22.90			
		64-QAM	-26.26	12.31	12.04	3.05	H	0.135	21.30			
		256-QAM	-27.98	10.59	12.04	3.05	H	0.091	19.58			

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3495.00	Sub6 n77/ 90 MHz [30 kHz]	PI/2 BPSK	-23.23	15.02	12.04	3.04	H	< 1.00	0.252	24.02	1	1
		QPSK	-23.26	14.99	12.04	3.04	H		0.251	23.99		
		16-QAM	-24.45	13.80	12.04	3.04	H		0.191	22.80		
		64-QAM	-25.85	12.40	12.04	3.04	H		0.138	21.40		
		256-QAM	-27.80	10.45	12.04	3.04	H		0.088	19.45		
3500.01		PI/2 BPSK	-23.23	15.09	12.04	3.04	H		0.256	24.09	1	1
		QPSK	-23.40	14.92	12.04	3.04	H		0.247	23.92		
		16-QAM	-24.15	14.17	12.04	3.04	H		0.208	23.17		
		64-QAM	-25.88	12.44	12.04	3.04	H		0.139	21.44		
		256-QAM	-27.88	10.44	12.04	3.04	H		0.088	19.44		
3504.99		PI/2 BPSK	-23.08	15.37	12.04	3.05	H		0.273	24.36	1	1
		QPSK	-23.12	15.33	12.04	3.05	H		0.270	24.32		
		16-QAM	-24.02	14.43	12.04	3.05	H		0.220	23.42		
		64-QAM	-25.66	12.79	12.04	3.05	H		0.151	21.78		
		256-QAM	-27.72	10.73	12.04	3.05	H		0.094	19.72		

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/ 100 MHz [30 kHz]	PI/2 BPSK	-23.17	15.15	12.04	3.04	H	< 1.00	0.260	24.15	1	1
		QPSK	-23.25	15.07	12.04	3.04	H		0.255	24.07		
		16-QAM	-23.95	14.37	12.04	3.04	H		0.217	23.37		
		64-QAM	-25.56	12.76	12.04	3.04	H		0.150	21.76		
		256-QAM	-27.85	10.47	12.04	3.04	H		0.089	19.47		

8.2 RADIATED SPURIOUS EMISSIONS

NR Band:	<u>N77</u>
Bandwidth:	<u>70 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
632334 (3485.01)	6 970.02	-45.63	11.16	-40.03	4.46	H	-33.33	-13.00	1	1
	10 455.03	-54.44	11.73	-44.11	5.57	H	-37.95	-13.00		
	13 940.04	-61.81	12.84	-51.37	6.51	V	-45.04	-13.00		
633334 (3500.01)	7 000.02	-45.80	11.13	-39.15	4.45	H	-32.47	-13.00	1	1
	10 500.03	-55.11	11.71	-43.86	5.64	H	-37.79	-13.00		
	14 000.04	-59.74	12.76	-50.16	6.55	H	-43.95	-13.00		
634332 (3515.00)	7 029.96	-45.17	11.04	-38.52	4.42	H	-31.90	-13.00	1	1
	10 544.94	-52.52	11.67	-41.57	5.63	H	-35.53	-13.00		
	14 059.92	-59.29	12.73	-50.12	6.48	H	-43.87	-13.00		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n77	10 MHz	3500.01	BPSK	Full RB	0	4.63
			QPSK			5.86
			16-QAM			6.69
			64-QAM			6.75
			256-QAM			6.58
	15 MHz		BPSK			4.55
			QPSK			5.85
			16-QAM			6.59
			64-QAM			6.74
			256-QAM			6.44
	20 MHz		BPSK			5.71
			QPSK			5.87
			16-QAM			6.64
			64-QAM			6.73
			256-QAM			6.42
	25 MHz		BPSK			4.52
			QPSK			5.69
			16-QAM			6.42
			64-QAM			6.62
			256-QAM			6.52
	30 MHz		BPSK			4.57
			QPSK			5.68
			16-QAM			6.40
			64-QAM			6.56
			256-QAM			6.44
	40 MHz		BPSK			5.89
			QPSK			6.05
			16-QAM			6.55
			64-QAM			6.60
			256-QAM			6.60
	50 MHz		BPSK			4.54
			QPSK			5.77
			16-QAM			6.56
			64-QAM			6.66
			256-QAM			6.58
	60 MHz		BPSK			4.52
			QPSK			5.76
			16-QAM			6.46
			64-QAM			6.60
			256-QAM			6.55
	70 MHz		BPSK			4.74
			QPSK			5.75
			16-QAM			6.45
			64-QAM			6.60
			256-QAM			6.49

	80 MHz		BPSK			5.11
			QPSK			5.75
			16-QAM			6.50
			64-QAM			6.55
			256-QAM			6.49
	90 MHz		BPSK			4.84
			QPSK			5.74
			16-QAM			6.50
			64-QAM			6.56
			256-QAM			6.55
	100 MHz		BPSK			4.48
			QPSK			5.75
			16-QAM			6.45
			64-QAM			6.57
			256-QAM			6.45

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	10 MHz	3500.01	BPSK	Full RB	0	8.6784
			QPSK			8.6786
			16-QAM			8.7492
			64-QAM			8.6774
			256-QAM			8.7097
	15 MHz		BPSK			13.032
			QPSK			13.017
			16-QAM			13.012
			64-QAM			12.989
			256-QAM			12.950
	20 MHz		BPSK			17.994
			QPSK			18.010
			16-QAM			17.986
			64-QAM			17.970
			256-QAM			17.999
	25 MHz		BPSK			23.023
			QPSK			23.054
			16-QAM			23.004
			64-QAM			23.005
			256-QAM			23.008
	30 MHz		BPSK			27.014
			QPSK			27.001
			16-QAM			27.063
			64-QAM			26.938
			256-QAM			27.012
	40 MHz		BPSK			35.943
			QPSK			35.889
			16-QAM			35.876
			64-QAM			35.832
			256-QAM			35.990
	50 MHz		BPSK			45.954
			QPSK			45.932
			16-QAM			45.973
			64-QAM			46.098
			256-QAM			46.028
	60 MHz		BPSK			58.219
			QPSK			58.230
			16-QAM			58.230
			64-QAM			58.162
			256-QAM			58.228
	70 MHz		BPSK			64.904
			QPSK			64.783
			16-QAM			64.508
			64-QAM			64.711
			256-QAM			64.912

	80 MHz		BPSK			77.679
			QPSK			77.656
			16-QAM			77.453
			64-QAM			77.471
			256-QAM			77.471
	90 MHz		BPSK			87.273
			QPSK			87.175
			16-QAM			87.437
			64-QAM			87.199
			256-QAM			87.395
	100 MHz		BPSK			96.886
			QPSK			96.879
			16-QAM			96.674
			64-QAM			96.721
			256-QAM			96.833

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	10	3455.010	4.9751	29.722	-63.604	-33.882	-13.00
		3500.010	4.7957	29.722	-63.521	-33.799	
		3544.980	4.9951	29.722	-63.684	-33.962	
	15	3457.500	4.9951	29.722	-62.404	-32.682	
		3500.010	4.8555	29.722	-63.834	-34.112	
		3542.490	9.2722	30.315	-64.225	-33.910	
	20	3460.020	4.7957	29.722	-64.429	-34.707	
		3500.010	8.8734	30.315	-63.373	-33.058	
		3540.000	6.1516	30.315	-63.578	-33.263	
	25	3462.510	9.9202	30.315	-63.811	-33.496	
		3500.010	6.1516	30.315	-62.904	-32.589	
		3537.480	4.7957	29.722	-63.360	-33.638	
	30	3465.000	9.0628	30.315	-61.825	-31.510	
		3500.010	7.4178	30.315	-63.298	-32.983	
		3534.990	4.7957	29.722	-62.851	-33.129	
	40	3470.010	4.5763	29.722	-63.680	-33.958	
		3500.010	5.0150	30.315	-63.454	-33.139	
		3529.980	5.2343	30.315	-63.473	-33.158	
	50	3475.020	4.7757	29.722	-63.840	-34.118	
		3500.010	9.6810	30.315	-63.385	-33.070	
		3525.000	6.1416	30.315	-63.195	-32.880	
	60	3480.000	7.2383	30.315	-63.690	-33.375	
		3500.010	4.7658	29.722	-63.317	-33.595	
		3519.990	7.2483	30.315	-64.022	-33.707	
	70	3485.010	3.1207	29.722	-63.398	-33.676	
		3500.010	4.9851	29.722	-63.090	-33.368	
		3514.980	8.1855	30.315	-63.831	-33.516	
	80	3490.020	4.8056	29.722	-64.087	-34.365	
		3500.010	4.7957	29.722	-63.273	-33.551	
		3510.000	5.4238	30.315	-63.879	-33.564	
	90	3495.000	4.7558	29.722	-63.413	-33.691	
		3500.010	9.5813	30.315	-63.340	-33.025	
		3504.990	9.2423	30.315	-63.115	-32.800	
	100	3500.010	7.0788	30.315	-63.931	-33.616	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 211 ~ 278.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
3. Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter

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

8.6 BAND EDGE

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 %): 3.880 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 010 000	0.0	0.000 000	0.000
	100 %	-30	3455 010 000	-0.5	0.000 000	0.000
	100 %	-20	3455 009 999	-1.3	0.000 000	0.000
	100 %	-10	3455 010 000	-0.6	0.000 000	0.000
	100 %	0	3455 009 999	-1.2	0.000 000	0.000
	100 %	+10	3455 010 002	1.5	0.000 000	0.000
	100 %	+30	3455 010 000	-0.6	0.000 000	0.000
	100 %	+40	3455 010 001	0.7	0.000 000	0.000
	100 %	+50	3455 010 000	0.1	0.000 000	0.000
	Batt. Endpoint	+20	3455 009 998	-1.9	0.000 000	-0.001
3544.980	100 %	+20(Ref)	3544 979 998	0.0	0.000 000	0.000
	100 %	-30	3544 979 996	-1.3	0.000 000	0.000
	100 %	-20	3544 979 997	-0.3	0.000 000	0.000
	100 %	-10	3544 979 996	-2.1	0.000 000	-0.001
	100 %	0	3544 979 997	-0.8	0.000 000	0.000
	100 %	+10	3544 979 995	-2.7	0.000 000	-0.001
	100 %	+30	3544 979 996	-1.8	0.000 000	-0.001
	100 %	+40	3544 979 997	-1.0	0.000 000	0.000
	100 %	+50	3544 979 996	-2.1	0.000 000	-0.001
	Batt. Endpoint	+20	3544 980 000	2.6	0.000 000	0.001

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.880 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 499 999	0.0	0.000 000	0.000
	100 %	-30	3457 499 999	-0.3	0.000 000	0.000
	100 %	-20	3457 499 996	-3.0	0.000 000	-0.001
	100 %	-10	3457 499 996	-2.7	0.000 000	-0.001
	100 %	0	3457 499 999	0.2	0.000 000	0.000
	100 %	+10	3457 499 997	-2.1	0.000 000	-0.001
	100 %	+30	3457 499 999	-0.1	0.000 000	0.000
	100 %	+40	3457 499 999	-0.3	0.000 000	0.000
	100 %	+50	3457 499 998	-1.3	0.000 000	0.000
	Batt. Endpoint	+20	3457 499 999	-0.2	0.000 000	0.000
3542.490	100 %	+20(Ref)	3542 489 997	0.0	0.000 000	0.000
	100 %	-30	3542 489 994	-2.4	0.000 000	-0.001
	100 %	-20	3542 489 995	-1.7	0.000 000	0.000
	100 %	-10	3542 489 994	-3.2	0.000 000	-0.001
	100 %	0	3542 489 994	-2.9	0.000 000	-0.001
	100 %	+10	3542 489 994	-2.8	0.000 000	-0.001
	100 %	+30	3542 489 995	-1.8	0.000 000	-0.001
	100 %	+40	3542 489 994	-2.9	0.000 000	-0.001
	100 %	+50	3542 489 994	-2.4	0.000 000	-0.001
	Batt. Endpoint	+20	3542 489 995	-2.1	0.000 000	-0.001

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.880 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 020 001	0.0	0.000 000	0.000
	100 %	-30	3460 020 002	0.2	0.000 000	0.000
	100 %	-20	3460 020 000	-1.6	0.000 000	0.000
	100 %	-10	3460 020 000	-1.2	0.000 000	0.000
	100 %	0	3460 020 000	-1.7	0.000 000	0.000
	100 %	+10	3460 020 002	0.2	0.000 000	0.000
	100 %	+30	3460 020 001	-0.2	0.000 000	0.000
	100 %	+40	3460 020 003	1.2	0.000 000	0.000
	100 %	+50	3460 020 000	-1.1	0.000 000	0.000
	Batt. Endpoint	+20	3460 020 001	0.0	0.000 000	0.000
3540.000	100 %	+20(Ref)	3539 999 998	0.0	0.000 000	0.000
	100 %	-30	3539 999 997	-1.0	0.000 000	0.000
	100 %	-20	3539 999 998	0.0	0.000 000	0.000
	100 %	-10	3539 999 997	-1.4	0.000 000	0.000
	100 %	0	3539 999 997	-1.4	0.000 000	0.000
	100 %	+10	3539 999 996	-1.8	0.000 000	0.000
	100 %	+30	3539 999 998	-0.3	0.000 000	0.000
	100 %	+40	3539 999 993	-4.8	0.000 000	-0.001
	100 %	+50	3539 999 996	-2.0	0.000 000	-0.001
	Batt. Endpoint	+20	3539 999 997	-0.9	0.000 000	0.000

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.880 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 509 999	0.0	0.000 000	0.000
	100 %	-30	3462 509 995	-3.8	0.000 000	-0.001
	100 %	-20	3462 509 997	-1.9	0.000 000	-0.001
	100 %	-10	3462 509 997	-2.4	0.000 000	-0.001
	100 %	0	3462 509 997	-2.0	0.000 000	-0.001
	100 %	+10	3462 509 999	-0.3	0.000 000	0.000
	100 %	+30	3462 509 997	-1.7	0.000 000	0.000
	100 %	+40	3462 510 000	1.0	0.000 000	0.000
	100 %	+50	3462 509 999	-0.3	0.000 000	0.000
	Batt. Endpoint	+20	3462 509 998	-0.8	0.000 000	0.000
3537.480	100 %	+20(Ref)	3537 479 998	0.0	0.000 000	0.000
	100 %	-30	3537 480 000	1.3	0.000 000	0.000
	100 %	-20	3537 479 997	-1.8	0.000 000	-0.001
	100 %	-10	3537 479 998	-0.5	0.000 000	0.000
	100 %	0	3537 479 997	-1.6	0.000 000	0.000
	100 %	+10	3537 479 999	0.2	0.000 000	0.000
	100 %	+30	3537 480 000	1.5	0.000 000	0.000
	100 %	+40	3537 479 998	-0.4	0.000 000	0.000
	100 %	+50	3537 480 000	1.8	0.000 000	0.001
	Batt. Endpoint	+20	3537 479 998	-0.7	0.000 000	0.000

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.880 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 999 999	0.0	0.000 000	0.000
	100 %	-30	3464 999 998	-1.0	0.000 000	0.000
	100 %	-20	3464 999 997	-1.9	0.000 000	-0.001
	100 %	-10	3464 999 996	-2.6	0.000 000	-0.001
	100 %	0	3464 999 995	-3.4	0.000 000	-0.001
	100 %	+10	3464 999 998	-0.5	0.000 000	0.000
	100 %	+30	3464 999 998	-0.6	0.000 000	0.000
	100 %	+40	3464 999 997	-1.7	0.000 000	0.000
	100 %	+50	3464 999 996	-2.3	0.000 000	-0.001
	Batt. Endpoint	+20	3464 999 997	-1.9	0.000 000	-0.001
3534.990	100 %	+20(Ref)	3534 989 998	0.0	0.000 000	0.000
	100 %	-30	3534 989 998	-0.1	0.000 000	0.000
	100 %	-20	3534 989 997	-1.0	0.000 000	0.000
	100 %	-10	3534 990 000	1.8	0.000 000	0.001
	100 %	0	3534 989 997	-0.8	0.000 000	0.000
	100 %	+10	3534 989 996	-1.3	0.000 000	0.000
	100 %	+30	3534 989 997	-1.2	0.000 000	0.000
	100 %	+40	3534 989 996	-2.0	0.000 000	-0.001
	100 %	+50	3534 989 996	-1.3	0.000 000	0.000
	Batt. Endpoint	+20	3534 989 997	-0.6	0.000 000	0.000

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.880 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 009 996	0.0	0.000 000	0.000
	100 %	-30	3470 009 996	-0.1	0.000 000	0.000
	100 %	-20	3470 009 992	-4.2	0.000 000	-0.001
	100 %	-10	3470 009 993	-3.0	0.000 000	-0.001
	100 %	0	3470 009 997	0.1	0.000 000	0.000
	100 %	+10	3470 009 996	0.0	0.000 000	0.000
	100 %	+30	3470 009 995	-2.0	0.000 000	-0.001
	100 %	+40	3470 009 996	-0.6	0.000 000	0.000
	100 %	+50	3470 009 995	-1.5	0.000 000	0.000
	Batt. Endpoint	+20	3470 009 996	-0.6	0.000 000	0.000
3529.980	100 %	+20(Ref)	3529 979 997	0.0	0.000 000	0.000
	100 %	-30	3529 979 995	-2.4	0.000 000	-0.001
	100 %	-20	3529 979 993	-4.0	0.000 000	-0.001
	100 %	-10	3529 979 996	-1.1	0.000 000	0.000
	100 %	0	3529 979 993	-3.9	0.000 000	-0.001
	100 %	+10	3529 979 993	-3.7	0.000 000	-0.001
	100 %	+30	3529 979 996	-1.4	0.000 000	0.000
	100 %	+40	3529 979 994	-3.4	0.000 000	-0.001
	100 %	+50	3529 979 993	-3.7	0.000 000	-0.001
	Batt. Endpoint	+20	3529 979 996	-0.6	0.000 000	0.000

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 3.880 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 019 998	0.0	0.000 000	0.000
	100 %	-30	3475 019 995	-3.7	0.000 000	-0.001
	100 %	-20	3475 019 997	-1.7	0.000 000	0.000
	100 %	-10	3475 019 993	-5.0	0.000 000	-0.001
	100 %	0	3475 019 997	-1.4	0.000 000	0.000
	100 %	+10	3475 019 997	-1.0	0.000 000	0.000
	100 %	+30	3475 019 998	-0.6	0.000 000	0.000
	100 %	+40	3475 019 997	-1.9	0.000 000	-0.001
	100 %	+50	3475 019 995	-3.1	0.000 000	-0.001
	Batt. Endpoint	+20	3475 019 997	-1.0	0.000 000	0.000
3525.000	100 %	+20(Ref)	3524 999 999	0.0	0.000 000	0.000
	100 %	-30	3524 999 998	-1.3	0.000 000	0.000
	100 %	-20	3524 999 996	-2.4	0.000 000	-0.001
	100 %	-10	3524 999 997	-1.4	0.000 000	0.000
	100 %	0	3524 999 998	-1.0	0.000 000	0.000
	100 %	+10	3524 999 999	0.4	0.000 000	0.000
	100 %	+30	3524 999 997	-1.6	0.000 000	0.000
	100 %	+40	3524 999 999	-0.1	0.000 000	0.000
	100 %	+50	3524 999 999	0.4	0.000 000	0.000
	Batt. Endpoint	+20	3524 999 999	-0.3	0.000 000	0.000

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 3.880 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 999 998	0.0	0.000 000	0.000
	100 %	-30	3479 999 995	-3.1	0.000 000	-0.001
	100 %	-20	3479 999 995	-3.2	0.000 000	-0.001
	100 %	-10	3479 999 996	-1.8	0.000 000	-0.001
	100 %	0	3479 999 997	-1.2	0.000 000	0.000
	100 %	+10	3479 999 996	-2.0	0.000 000	-0.001
	100 %	+30	3479 999 997	-1.1	0.000 000	0.000
	100 %	+40	3479 999 996	-2.6	0.000 000	-0.001
	100 %	+50	3479 999 996	-2.6	0.000 000	-0.001
	Batt. Endpoint	+20	3479 999 997	-1.1	0.000 000	0.000
3519.990	100 %	+20(Ref)	3519 989 999	0.0	0.000 000	0.000
	100 %	-30	3519 989 998	-1.7	0.000 000	0.000
	100 %	-20	3519 989 998	-1.7	0.000 000	0.000
	100 %	-10	3519 989 996	-3.9	0.000 000	-0.001
	100 %	0	3519 989 998	-1.3	0.000 000	0.000
	100 %	+10	3519 989 999	-0.1	0.000 000	0.000
	100 %	+30	3519 989 996	-3.8	0.000 000	-0.001
	100 %	+40	3519 989 998	-1.1	0.000 000	0.000
	100 %	+50	3519 989 995	-4.4	0.000 000	-0.001
	Batt. Endpoint	+20	3519 989 996	-3.4	0.000 000	-0.001

- ▣ BandWidth: 70 MHz
- ▣ Voltage(100 %): 3.880 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 009 999	0.0	0.000 000	0.000
	100 %	-30	3485 009 997	-1.2	0.000 000	0.000
	100 %	-20	3485 009 996	-2.9	0.000 000	-0.001
	100 %	-10	3485 010 000	1.0	0.000 000	0.000
	100 %	0	3485 009 998	-0.9	0.000 000	0.000
	100 %	+10	3485 009 998	-0.4	0.000 000	0.000
	100 %	+30	3485 009 997	-1.8	0.000 000	-0.001
	100 %	+40	3485 009 999	0.4	0.000 000	0.000
	100 %	+50	3485 009 997	-1.3	0.000 000	0.000
	Batt. Endpoint	+20	3485 009 996	-2.8	0.000 000	-0.001
3514.980	100 %	+20(Ref)	3514 979 998	0.0	0.000 000	0.000
	100 %	-30	3514 979 995	-3.1	0.000 000	-0.001
	100 %	-20	3514 979 999	0.5	0.000 000	0.000
	100 %	-10	3514 979 998	0.0	0.000 000	0.000
	100 %	0	3514 979 998	-0.6	0.000 000	0.000
	100 %	+10	3514 979 998	-0.7	0.000 000	0.000
	100 %	+30	3514 979 997	-1.6	0.000 000	0.000
	100 %	+40	3514 979 996	-2.0	0.000 000	-0.001
	100 %	+50	3514 979 996	-1.7	0.000 000	0.000
	Batt. Endpoint	+20	3514 979 995	-2.8	0.000 000	-0.001

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 3.880 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	-0.8	0.000 000	0.000
	100 %	-20	3490 019 994	-3.6	0.000 000	-0.001
	100 %	-10	3490 019 996	-1.7	0.000 000	0.000
	100 %	0	3490 019 999	0.9	0.000 000	0.000
	100 %	+10	3490 019 996	-1.6	0.000 000	0.000
	100 %	+30	3490 019 996	-1.8	0.000 000	-0.001
	100 %	+40	3490 019 995	-2.5	0.000 000	-0.001
	100 %	+50	3490 019 996	-1.3	0.000 000	0.000
	Batt. Endpoint	+20	3490 019 998	0.4	0.000 000	0.000
3510.000	100 %	+20(Ref)	3509 999 995	0.0	0.000 000	0.000
	100 %	-30	3509 999 994	-1.4	0.000 000	0.000
	100 %	-20	3509 999 993	-2.0	0.000 000	-0.001
	100 %	-10	3509 999 992	-2.9	0.000 000	-0.001
	100 %	0	3509 999 995	0.0	0.000 000	0.000
	100 %	+10	3509 999 991	-3.8	0.000 000	-0.001
	100 %	+30	3509 999 992	-3.4	0.000 000	-0.001
	100 %	+40	3509 999 991	-4.0	0.000 000	-0.001
	100 %	+50	3509 999 991	-4.0	0.000 000	-0.001
	Batt. Endpoint	+20	3509 999 994	-1.5	0.000 000	0.000

- ▣ BandWidth: 90 MHz
- ▣ Voltage(100 %): 3.880 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)	3494 999 998	0.0	0.000 000	0.000
	100 %	-30	3494 999 997	-0.5	0.000 000	0.000
	100 %	-20	3494 999 997	-1.0	0.000 000	0.000
	100 %	-10	3494 999 995	-2.3	0.000 000	-0.001
	100 %	0	3494 999 996	-1.8	0.000 000	-0.001
	100 %	+10	3494 999 996	-1.6	0.000 000	0.000
	100 %	+30	3494 999 997	-0.9	0.000 000	0.000
	100 %	+40	3494 999 997	-0.4	0.000 000	0.000
	100 %	+50	3494 999 996	-1.6	0.000 000	0.000
	Batt. Endpoint	+20	3494 999 994	-3.8	0.000 000	-0.001
3504.990	100 %	+20(Ref)	3504 989 999	0.0	0.000 000	0.000
	100 %	-30	3504 989 998	-1.4	0.000 000	0.000
	100 %	-20	3504 989 995	-3.8	0.000 000	-0.001
	100 %	-10	3504 989 998	-1.4	0.000 000	0.000
	100 %	0	3504 989 994	-4.4	0.000 000	-0.001
	100 %	+10	3504 989 997	-1.7	0.000 000	0.000
	100 %	+30	3504 989 997	-1.5	0.000 000	0.000
	100 %	+40	3504 989 999	0.0	0.000 000	0.000
	100 %	+50	3504 989 997	-1.6	0.000 000	0.000
	Batt. Endpoint	+20	3504 989 997	-1.6	0.000 000	0.000

- ▣ BandWidth: 100 MHz
- ▣ Voltage(100 %): 3.880 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 010 001	0.0	0.000 000	0.000
	100 %	-30	3500 010 000	-0.2	0.000 000	0.000
	100 %	-20	3500 009 998	-2.5	0.000 000	-0.001
	100 %	-10	3500 009 999	-1.3	0.000 000	0.000
	100 %	0	3500 009 997	-3.8	0.000 000	-0.001
	100 %	+10	3500 009 997	-3.4	0.000 000	-0.001
	100 %	+30	3500 009 999	-2.0	0.000 000	-0.001
	100 %	+40	3500 009 999	-1.8	0.000 000	-0.001
	100 %	+50	3500 009 997	-3.9	0.000 000	-0.001
	Batt. Endpoint	+20	3500 010 000	-0.2	0.000 000	0.000

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/ 10 MHz [30 kHz]	PI/2 BPSK	-23.51	15.08	12.08	3.08	H	< 1.00	0.256	24.08	1	22
		QPSK	-23.53	15.06	12.08	3.08	H		0.255	24.06		
		16-QAM	-24.40	14.19	12.08	3.08			0.208	23.19		
		64-QAM	-25.97	12.62	12.08	3.08	H		0.145	21.62		
		256-QAM	-28.06	10.53	12.08	3.08	H		0.090	19.53		
3840.00		PI/2 BPSK	-23.20	16.75	11.58	3.20	H		0.326	25.13	1	12
		QPSK	-23.32	16.63	11.58	3.20	H		0.317	25.01		
		16-QAM	-24.19	15.76	11.58	3.20	H		0.259	24.14		
		64-QAM	-25.83	14.12	11.58	3.20	H		0.178	22.50		
		256-QAM	-27.77	12.18	11.58	3.20	H		0.114	20.56		
3975.00		PI/2 BPSK	-24.82	15.09	11.70	3.25	H		0.226	23.54	1	22
		QPSK	-24.83	15.08	11.70	3.25	H		0.225	23.53		
		16-QAM	-25.79	14.12	11.70	3.25	H		0.181	22.57		
		64-QAM	-27.23	12.68	11.70	3.25	H		0.130	21.13		
		256-QAM	-29.32	10.59	11.70	3.25	H		0.080	19.04		

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/ 15 MHz [30 kHz]	PI/2 BPSK	-23.40	15.10	12.08	3.08	H	< 1.00	0.257	24.10	1	36
		QPSK	-23.46	15.04	12.08	3.08	H		0.254	24.04		
		16-QAM	-24.47	14.03	12.08	3.08	H		0.201	23.03		
		64-QAM	-25.80	12.70	12.08	3.08	H		0.148	21.70		
		256-QAM	-27.94	10.56	12.08	3.08	H		0.090	19.56		
3840.00		PI/2 BPSK	-23.21	16.74	11.58	3.20	H		0.325	25.12	1	36
		QPSK	-23.23	16.72	11.58	3.20	H		0.324	25.10		
		16-QAM	-24.30	15.65	11.58	3.20	H		0.253	24.03		
		64-QAM	-25.72	14.23	11.58	3.20	H		0.182	22.61		
		256-QAM	-27.86	12.09	11.58	3.20	H		0.111	20.47		
3972.48		PI/2 BPSK	-24.77	15.09	11.69	3.25	H		0.225	23.53	1	36
		QPSK	-24.81	15.05	11.69	3.25	H		0.223	23.49		
		16-QAM	-25.87	13.99	11.69	3.25	H		0.175	22.43		
		64-QAM	-27.25	12.61	11.69	3.25	H		0.127	21.05		
		256-QAM	-29.28	10.58	11.69	3.25	H		0.080	19.02		

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	Sub6 n77/ 20 MHz [30 kHz]	PI/2 BPSK	-23.16	15.34	12.08	3.08	H	< 1.00	0.272	24.34	1	49
		QPSK	-23.17	15.33	12.08	3.08	H		0.271	24.33		
		16-QAM	-24.22	14.28	12.08	3.08	H		0.213	23.28		
		64-QAM	-25.74	12.76	12.08	3.08	H		0.150	21.76		
		256-QAM	-27.75	10.75	12.08	3.08	H		0.094	19.75		
3840.00		PI/2 BPSK	-23.25	16.70	11.58	3.20	H		0.322	25.08	1	49
		QPSK	-23.26	16.69	11.58	3.20	H		0.321	25.07		
		16-QAM	-24.16	15.79	11.58	3.20	H		0.261	24.17		
		64-QAM	-25.77	14.18	11.58	3.20	H		0.180	22.56		
		256-QAM	-27.63	12.32	11.58	3.20	H		0.118	20.70		
3969.99		PI/2 BPSK	-24.66	15.20	11.69	3.25	H		0.231	23.64	1	49
		QPSK	-24.70	15.16	11.69	3.25	H		0.229	23.60		
		16-QAM	-25.79	14.07	11.69	3.25	H		0.178	22.51		
		64-QAM	-27.33	12.53	11.69	3.25	H		0.125	20.97		
		256-QAM	-29.26	10.60	11.69	3.25	H		0.080	19.04		

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/ 25 MHz [30 kHz]	PI/2 BPSK	-23.17	15.40	12.08	3.11	H	< 1.00	0.274	24.37	1	63
		QPSK	-23.19	15.38	12.08	3.11	H		0.272	24.35		
		16-QAM	-24.20	14.37	12.08	3.11	H		0.216	23.34		
		64-QAM	-25.74	12.83	12.08	3.11	H		0.151	21.80		
		256-QAM	-27.61	10.96	12.08	3.11	H		0.098	19.93		
3840.00		PI/2 BPSK	-23.20	16.75	11.58	3.20	H		0.326	25.13	1	63
		QPSK	-23.23	16.72	11.58	3.20	H		0.324	25.10		
		16-QAM	-24.19	15.76	11.58	3.20	H		0.259	24.14		
		64-QAM	-25.72	14.23	11.58	3.20	H		0.182	22.61		
		256-QAM	-27.81	12.14	11.58	3.20	H		0.113	20.52		
3967.50		PI/2 BPSK	-24.66	15.20	11.69	3.25	H		0.231	23.64	1	63
		QPSK	-24.71	15.15	11.69	3.25	H		0.229	23.59		
		16-QAM	-25.78	14.08	11.69	3.25	H		0.179	22.52		
		64-QAM	-27.16	12.70	11.69	3.25	H		0.130	21.14		
		256-QAM	-29.30	10.56	11.69	3.25	H		0.079	19.00		

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	Sub6 n77/ 30 MHz [30 kHz]	PI/2 BPSK	-23.26	15.31	12.08	3.11	H	< 1.00	0.268	24.28	1	76
		QPSK	-23.27	15.30	12.08	3.11	H		0.267	24.27		
		16-QAM	-24.39	14.18	12.08	3.11	H		0.207	23.15		
		64-QAM	-25.91	12.66	12.08	3.11	H		0.146	21.63		
		256-QAM	-27.90	10.67	12.08	3.11	H		0.092	19.64		
3840.00		PI/2 BPSK	-23.31	16.64	11.58	3.20	H		0.318	25.02	1	39
		QPSK	-23.39	16.56	11.58	3.20	H		0.312	24.94		
		16-QAM	-24.42	15.53	11.58	3.20	H		0.246	23.91		
		64-QAM	-26.00	13.95	11.58	3.20	H		0.171	22.33		
		256-QAM	-27.95	12.00	11.58	3.20	H		0.109	20.38		
3964.98		PI/2 BPSK	-24.73	15.20	11.67	3.24	H		0.231	23.63	1	76
		QPSK	-24.77	15.16	11.67	3.24	H		0.229	23.59		
		16-QAM	-25.77	14.16	11.67	3.24	H		0.182	22.59		
		64-QAM	-27.32	12.61	11.67	3.24	H		0.127	21.04		
		256-QAM	-29.29	10.64	11.67	3.24	H		0.081	19.07		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3720.00	Sub6 n77/ 40 MHz [30 kHz]	PI/2 BPSK	-23.17	15.46	12.07	3.13	H	< 1.00	0.275	24.40	1	53
		QPSK	-23.18	15.45	12.07	3.13	H		0.275	24.39		
		16-QAM	-24.17	14.46	12.07	3.13	H		0.219	23.40		
		64-QAM	-25.58	13.05	12.07	3.13	H		0.158	21.99		
		256-QAM	-27.66	10.97	12.07	3.13	H		0.098	19.91		
3840.00		PI/2 BPSK	-23.31	16.64	11.58	3.20	H		0.318	25.02	1	53
		QPSK	-23.40	16.55	11.58	3.20	H		0.311	24.93		
		16-QAM	-24.36	15.59	11.58	3.20	H		0.250	23.97		
		64-QAM	-25.92	14.03	11.58	3.20	H		0.174	22.41		
		256-QAM	-27.95	12.00	11.58	3.20	H		0.109	20.38		
3960.00		PI/2 BPSK	-24.74	15.26	11.65	3.24	H		0.233	23.67	1	104
		QPSK	-24.75	15.25	11.65	3.24	H		0.232	23.66		
		16-QAM	-25.76	14.24	11.65	3.24	H		0.184	22.65		
		64-QAM	-27.35	12.65	11.65	3.24	H		0.128	21.06		
		256-QAM	-29.20	10.80	11.65	3.24	H		0.083	19.21		

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	Sub6 n77/ 50 MHz [30 kHz]	PI/2 BPSK	-23.10	15.66	12.06	3.15	H	< 1.00	0.286	24.57	1	66
		QPSK	-23.23	15.53	12.06	3.15	H		0.278	24.44		
		16-QAM	-24.32	14.44	12.06	3.15	H		0.216	23.35		
		64-QAM	-25.74	13.02	12.06	3.15	H		0.156	21.93		
		256-QAM	-27.67	11.09	12.06	3.15	H		0.100	20.00		
3840.00		PI/2 BPSK	-23.25	16.70	11.58	3.20	H		0.322	25.08	1	66
		QPSK	-23.33	16.62	11.58	3.20	H		0.316	25.00		
		16-QAM	-24.19	15.76	11.58	3.20	H		0.259	24.14		
		64-QAM	-25.82	14.13	11.58	3.20	H		0.178	22.51		
		256-QAM	-27.78	12.17	11.58	3.20	H		0.114	20.55		
3954.99		PI/2 BPSK	-24.70	15.33	11.63	3.23	H		0.236	23.73	1	131
		QPSK	-24.69	15.34	11.63	3.23	H		0.237	23.74		
		16-QAM	-25.62	14.41	11.63	3.23	H		0.191	22.81		
		64-QAM	-27.31	12.72	11.63	3.23	H		0.129	21.12		
		256-QAM	-29.22	10.81	11.63	3.23	H		0.083	19.21		

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	Sub6 n77/ 60 MHz [30 kHz]	PI/2 BPSK	-23.22	15.68	12.04	3.17	H	< 1.00	0.285	24.55	1	82
		QPSK	-23.23	15.67	12.04	3.17	H		0.284	24.54		
		16-QAM	-24.37	14.53	12.04	3.17	H		0.219	23.40		
		64-QAM	-25.80	13.10	12.04	3.17	H		0.157	21.97		
		256-QAM	-27.84	11.06	12.04	3.17	H		0.098	19.93		
3840.00		PI/2 BPSK	-23.22	16.73	11.58	3.20	H		0.324	25.11	1	1
		QPSK	-23.27	16.68	11.58	3.20	H		0.321	25.06		
		16-QAM	-24.38	15.57	11.58	3.20	H		0.248	23.95		
		64-QAM	-25.84	14.11	11.58	3.20	H		0.177	22.49		
		256-QAM	-27.93	12.02	11.58	3.20	H		0.110	20.40		
3949.98		PI/2 BPSK	-24.59	15.46	11.61	3.22	H		0.243	23.85	1	160
		QPSK	-24.63	15.42	11.61	3.22	H		0.240	23.81		
		16-QAM	-25.52	14.53	11.61	3.22	H		0.196	22.92		
		64-QAM	-27.21	12.84	11.61	3.22	H		0.133	21.23		
		256-QAM	-29.22	10.83	11.61	3.22	H		0.084	19.22		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3735.00		PI/2 BPSK	-23.28	15.74	12.02	3.18	H	< 1.00	0.287	24.58	1	94
		QPSK	-23.34	15.68	12.02	3.18	H		0.283	24.52		
		16-QAM	-24.30	14.72	12.02	3.18	H		0.227	23.56		
		64-QAM	-25.78	13.24	12.02	3.18	H		0.161	22.08		
		256-QAM	-27.85	11.17	12.02	3.18	H		0.100	20.01		
3840.00	Sub6 n77/ 70 MHz [30 kHz]	PI/2 BPSK	-23.15	16.80	11.58	3.20	H	< 1.00	0.330	25.18	1	1
		QPSK	-23.16	16.79	11.58	3.20	H		0.329	25.17		
		16-QAM	-24.21	15.74	11.58	3.20	H		0.258	24.12		
		64-QAM	-25.56	14.39	11.58	3.20	H		0.189	22.77		
		256-QAM	-27.77	12.18	11.58	3.20	H		0.114	20.56		
3945.00		PI/2 BPSK	-24.58	15.45	11.60	3.23	H	< 1.00	0.241	23.82	1	187
		QPSK	-24.59	15.44	11.60	3.23	H		0.240	23.81		
		16-QAM	-25.77	14.26	11.60	3.23	H		0.183	22.63		
		64-QAM	-27.25	12.78	11.60	3.23	H		0.130	21.15		
		256-QAM	-29.13	10.90	11.60	3.23	H		0.085	19.27		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3740.01	Sub6 n77/ 80 MHz [30 kHz]	PI/2 BPSK	-23.32	15.83	12.00	3.19	H	< 1.00	0.291	24.64	1	108
		QPSK	-23.35	15.80	12.00	3.19	H		0.289	24.61		
		16-QAM	-24.30	14.85	12.00	3.19	H		0.232	23.66		
		64-QAM	-25.96	13.19	12.00	3.19	H		0.159	22.00		
		256-QAM	-28.01	11.14	12.00	3.19	H		0.099	19.95		
3840.00		PI/2 BPSK	-23.10	16.85	11.58	3.20	H		0.333	25.23	1	108
		QPSK	-23.16	16.79	11.58	3.20	H		0.329	25.17		
		16-QAM	-24.10	15.85	11.58	3.20	H		0.265	24.23		
		64-QAM	-25.79	14.16	11.58	3.20	H		0.180	22.54		
		256-QAM	-27.70	12.25	11.58	3.20	H		0.116	20.63		
3939.99		PI/2 BPSK	-24.50	15.50	11.58	3.23	H		0.243	23.85	1	215
		QPSK	-24.52	15.48	11.58	3.23	H		0.242	23.83		
		16-QAM	-25.53	14.47	11.58	3.23	H		0.191	22.82		
		64-QAM	-26.97	13.03	11.58	3.23	H		0.137	21.38		
		256-QAM	-29.08	10.92	11.58	3.23	H		0.085	19.27		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3745.02	Sub6 n77/ 90 MHz [30 kHz]	PI/2 BPSK	-23.32	15.85	11.97	3.18	H	< 1.00	0.291	24.64	1	243
		QPSK	-23.33	15.84	11.97	3.18	H		0.290	24.63		
		16-QAM	-24.37	14.80	11.97	3.18	H		0.229	23.59		
		64-QAM	-25.80	13.37	11.97	3.18	H		0.164	22.16		
		256-QAM	-27.89	11.28	11.97	3.18	H		0.102	20.07		
3840.00		PI/2 BPSK	-23.15	16.80	11.58	3.20	H		0.330	25.18	1	122
		QPSK	-23.18	16.77	11.58	3.20	H		0.327	25.15		
		16-QAM	-24.11	15.84	11.58	3.20	H		0.264	24.22		
		64-QAM	-25.81	14.14	11.58	3.20	H		0.179	22.52		
		256-QAM	-27.71	12.24	11.58	3.20	H		0.115	20.62		
3934.98		PI/2 BPSK	-24.46	15.49	11.56	3.24	H		0.240	23.81	1	243
		QPSK	-24.49	15.46	11.56	3.24	H		0.239	23.78		
		16-QAM	-25.53	14.42	11.56	3.24	H		0.188	22.74		
		64-QAM	-26.90	13.05	11.56	3.24	H		0.137	21.37		
		256-QAM	-29.13	10.82	11.56	3.24	H		0.082	19.14		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3750.00	Sub6 n77/ 100 MHz [30 kHz]	PI/2 BPSK	-23.49	15.70	11.95	3.17	H	< 1.00	0.281	24.48	1	271
		QPSK	-23.50	15.69	11.95	3.17	H		0.280	24.47		
		16-QAM	-24.48	14.71	11.95	3.17	H		0.223	23.49		
		64-QAM	-26.05	13.14	11.95	3.17	H		0.156	21.92		
		256-QAM	-27.95	11.24	11.95	3.17	H		0.101	20.02		
3840.00		PI/2 BPSK	-23.11	16.84	11.58	3.20	H		0.333	25.22	1	136
		QPSK	-23.18	16.77	11.58	3.20	H		0.327	25.15		
		16-QAM	-24.07	15.88	11.58	3.20	H		0.267	24.26		
		64-QAM	-25.69	14.26	11.58	3.20	H		0.184	22.64		
		256-QAM	-27.75	12.20	11.58	3.20	H		0.114	20.58		
3930.00		PI/2 BPSK	-24.40	15.50	11.54	3.26	H		0.239	23.78	1	271
		QPSK	-24.44	15.46	11.54	3.26	H		0.237	23.74		
		16-QAM	-25.38	14.52	11.54	3.26	H		0.191	22.80		
		64-QAM	-26.92	12.98	11.54	3.26	H		0.134	21.26		
		256-QAM	-29.08	10.82	11.54	3.26	H		0.081	19.10		

9.2 RADIATED SPURIOUS EMISSIONS

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

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
649334 (3740.01)	7 480.02	-59.59	11.45	-52.05	4.62	H	-45.22	-13.00	1	108
	11 220.03	-55.70	12.08	-45.29	5.80	H	-39.01	-13.00		
	14 960.04	-57.32	14.17	-50.49	6.77	H	-43.09	-13.00		
656000 (3840.00)	7 680.00	-59.39	11.47	-52.08	4.70	H	-45.31	-13.00	1	108
	11 520.00	-60.06	12.34	-48.75	5.87	H	-42.28	-13.00		
	15 360.00	-60.77	15.37	-54.19	6.88	V	-45.70	-13.00		
662666 (3940.00)	7 879.98	-58.55	11.05	-50.89	4.74	H	-44.58	-13.00	1	215
	11 819.97	-63.48	12.64	-52.77	5.92	H	-46.05	-13.00		
	15 759.96	-62.48	16.08	-55.26	6.93	H	-46.11	-13.00		

9.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n77	10 MHz	3840.00	BPSK	Full RB	0	5.53
			QPSK			5.83
			16-QAM			6.50
			64-QAM			6.61
			256-QAM			6.25
	15 MHz		BPSK			4.59
			QPSK			5.65
			16-QAM			6.43
			64-QAM			6.63
			256-QAM			6.48
	20 MHz		BPSK			5.24
			QPSK			5.64
			16-QAM			6.38
			64-QAM			6.62
			256-QAM			6.46
	25 MHz		BPSK			5.25
			QPSK			5.55
			16-QAM			6.33
			64-QAM			6.55
			256-QAM			6.48
	30 MHz		BPSK			5.01
			QPSK			5.51
			16-QAM			6.33
			64-QAM			6.59
			256-QAM			6.40
	40 MHz		BPSK			4.58
			QPSK			5.49
			16-QAM			6.32
			64-QAM			6.49
			256-QAM			6.46
	50 MHz		BPSK			4.54
			QPSK			5.47
			16-QAM			6.23
			64-QAM			6.44
			256-QAM			6.45
	60 MHz		BPSK			5.46
			QPSK			5.64
			16-QAM			6.27
			64-QAM			6.48
			256-QAM			6.52
	70 MHz		BPSK			4.55
			QPSK			5.45
			16-QAM			6.30
			64-QAM			6.43
			256-QAM			6.58

	80 MHz		BPSK			5.04
			QPSK			5.45
			16-QAM			6.22
			64-QAM			6.37
			256-QAM			6.48
	90 MHz		BPSK			5.44
			QPSK			5.61
			16-QAM			6.21
			64-QAM			6.42
			256-QAM			6.52
	100 MHz		BPSK			4.53
			QPSK			5.44
			16-QAM			6.23
			64-QAM			6.40
			256-QAM			6.58

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	10 MHz	3840.00	BPSK	Full RB	0	8.6502
			QPSK			8.6536
			16-QAM			8.7109
			64-QAM			8.6468
			256-QAM			8.6342
	15 MHz		BPSK			12.927
			QPSK			12.947
			16-QAM			12.933
			64-QAM			12.963
			256-QAM			12.921
	20 MHz		BPSK			17.974
			QPSK			17.981
			16-QAM			17.973
			64-QAM			17.932
			256-QAM			17.943
	25 MHz		BPSK			22.950
			QPSK			22.959
			16-QAM			23.012
			64-QAM			23.019
			256-QAM			22.928
	30 MHz		BPSK			26.962
			QPSK			26.963
			16-QAM			26.952
			64-QAM			26.968
			256-QAM			26.909
	40 MHz		BPSK			35.925
			QPSK			35.922
			16-QAM			35.881
			64-QAM			35.881
			256-QAM			35.780
	50 MHz		BPSK			45.984
			QPSK			45.974
			16-QAM			45.966
			64-QAM			45.973
			256-QAM			45.897
	60 MHz		BPSK			58.241
			QPSK			58.055
			16-QAM			58.138
			64-QAM			58.142
			256-QAM			58.136
	70 MHz		BPSK			64.678
			QPSK			64.690
			16-QAM			64.558
			64-QAM			64.838
			256-QAM			64.708

	80 MHz		BPSK			77.527
			QPSK			77.507
			16-QAM			77.410
			64-QAM			77.501
			256-QAM			77.465
	90 MHz		BPSK			87.257
			QPSK			87.302
			16-QAM			87.084
			64-QAM			87.249
			256-QAM			87.283
	100 MHz		BPSK			96.984
			QPSK			96.830
			16-QAM			96.497
			64-QAM			96.829
			256-QAM			96.936

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	10	3705.000	7.0389	30.315	-63.657	-33.342	-13.00
		3840.000	4.8954	29.722	-64.590	-34.868	
		3975.000	6.8694	30.315	-63.272	-32.957	
	15	3707.520	7.9562	30.315	-63.086	-32.771	
		3840.000	4.5464	29.722	-63.569	-33.847	
		3972.480	9.0728	30.315	-62.616	-32.301	
	20	3710.010	4.8056	29.722	-62.547	-32.825	
		3840.000	5.0050	30.315	-63.681	-33.366	
		3969.990	3.1107	29.722	-63.026	-33.304	
	25	3712.500	8.8335	30.315	-63.304	-32.989	
		3840.000	4.7957	29.722	-62.550	-32.828	
		3967.500	4.7957	29.722	-63.944	-34.222	
	30	3715.020	8.1755	30.315	-62.829	-32.514	
		3840.000	4.9851	29.722	-63.581	-33.859	
		3964.980	9.0429	30.315	-63.882	-33.567	
	40	3720.000	7.2383	30.315	-64.329	-34.014	
		3840.000	8.8036	30.315	-62.380	-32.065	
		3960.000	7.0190	30.315	-62.888	-32.573	
	50	3725.010	5.2443	30.315	-63.703	-33.388	
		3840.000	5.0349	30.315	-63.206	-32.891	
		3954.990	7.9362	30.315	-63.158	-32.843	
	60	3730.020	6.1516	30.315	-62.931	-32.616	
		3840.000	4.9951	29.722	-62.578	-32.856	
		3949.980	4.7957	29.722	-62.946	-33.224	
	70	3735.000	4.8854	29.722	-63.183	-33.461	
		3840.000	5.9322	30.315	-62.620	-32.305	
		3945.000	6.1316	30.315	-63.518	-33.203	
	80	3740.010	4.8056	29.722	-61.878	-32.156	
		3840.000	5.0250	30.315	-63.623	-33.308	
		3939.990	4.7757	29.722	-62.525	-32.803	
	90	3745.020	4.8056	29.722	-63.521	-33.799	
		3840.000	5.0150	30.315	-63.180	-32.865	
		3934.980	9.2223	30.315	-63.969	-33.654	
	100	3750.000	8.1755	30.315	-63.911	-33.596	
		3840.000	4.8056	29.722	-63.826	-34.104	
		3930.000	4.7658	29.722	-62.532	-32.810	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 544 ~ 615.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
3. Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter

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

9.6 BAND EDGE

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 %): 3.880 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)	3705 000 001	0.0	0.000 000	0.000
	100 %	-30	3704 999 998	-3.1	0.000 000	-0.001
	100 %	-20	3704 999 997	-4.1	0.000 000	-0.001
	100 %	-10	3704 999 998	-3.0	0.000 000	-0.001
	100 %	0	3704 999 999	-2.2	0.000 000	-0.001
	100 %	+10	3704 999 999	-1.8	0.000 000	0.000
	100 %	+30	3704 999 999	-2.5	0.000 000	-0.001
	100 %	+40	3705 000 000	-1.1	0.000 000	0.000
	100 %	+50	3705 000 000	-1.0	0.000 000	0.000
	Batt. Endpoint	+20	3705 000 000	-1.2	0.000 000	0.000
3975.000	100 %	+20(Ref)	3974 999 996	0.0	0.000 000	0.000
	100 %	-30	3974 999 994	-2.2	0.000 000	-0.001
	100 %	-20	3974 999 994	-2.2	0.000 000	-0.001
	100 %	-10	3974 999 993	-2.9	0.000 000	-0.001
	100 %	0	3974 999 995	-1.2	0.000 000	0.000
	100 %	+10	3974 999 994	-2.5	0.000 000	-0.001
	100 %	+30	3974 999 994	-1.8	0.000 000	0.000
	100 %	+40	3974 999 995	-1.1	0.000 000	0.000
	100 %	+50	3974 999 992	-4.3	0.000 000	-0.001
	Batt. Endpoint	+20	3974 999 992	-4.0	0.000 000	-0.001

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.880 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 519 999	0.0	0.000 000	0.000
	100 %	-30	3707 519 995	-3.7	0.000 000	-0.001
	100 %	-20	3707 519 996	-2.9	0.000 000	-0.001
	100 %	-10	3707 519 999	0.4	0.000 000	0.000
	100 %	0	3707 519 998	-0.9	0.000 000	0.000
	100 %	+10	3707 520 000	1.6	0.000 000	0.000
	100 %	+30	3707 519 996	-2.3	0.000 000	-0.001
	100 %	+40	3707 519 996	-2.6	0.000 000	-0.001
	100 %	+50	3707 519 999	0.0	0.000 000	0.000
	Batt. Endpoint	+20	3707 519 994	-4.8	0.000 000	-0.001
3972.480	100 %	+20(Ref)	3972 479 998	0.0	0.000 000	0.000
	100 %	-30	3972 479 994	-3.9	0.000 000	-0.001
	100 %	-20	3972 479 995	-2.3	0.000 000	-0.001
	100 %	-10	3972 479 994	-3.1	0.000 000	-0.001
	100 %	0	3972 479 997	-0.7	0.000 000	0.000
	100 %	+10	3972 479 995	-2.4	0.000 000	-0.001
	100 %	+30	3972 479 995	-2.7	0.000 000	-0.001
	100 %	+40	3972 479 996	-2.0	0.000 000	-0.001
	100 %	+50	3972 479 994	-3.3	0.000 000	-0.001
	Batt. Endpoint	+20	3972 479 995	-2.5	0.000 000	-0.001

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.880 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 010 001	0.0	0.000 000	0.000
	100 %	-30	3710 009 997	-4.2	0.000 000	-0.001
	100 %	-20	3710 009 998	-2.9	0.000 000	-0.001
	100 %	-10	3710 010 000	-1.0	0.000 000	0.000
	100 %	0	3710 009 997	-3.4	0.000 000	-0.001
	100 %	+10	3710 009 998	-3.0	0.000 000	-0.001
	100 %	+30	3710 009 997	-3.7	0.000 000	-0.001
	100 %	+40	3710 009 996	-4.8	0.000 000	-0.001
	100 %	+50	3710 009 997	-4.1	0.000 000	-0.001
	Batt. Endpoint	+20	3710 010 000	-1.0	0.000 000	0.000
3969.990	100 %	+20(Ref)	3969 990 000	0.0	0.000 000	0.000
	100 %	-30	3969 989 999	-0.3	0.000 000	0.000
	100 %	-20	3969 989 996	-3.5	0.000 000	-0.001
	100 %	-10	3969 989 998	-1.9	0.000 000	0.000
	100 %	0	3969 989 997	-2.4	0.000 000	-0.001
	100 %	+10	3969 989 996	-3.4	0.000 000	-0.001
	100 %	+30	3969 989 999	-1.2	0.000 000	0.000
	100 %	+40	3969 989 998	-1.3	0.000 000	0.000
	100 %	+50	3969 990 000	-0.1	0.000 000	0.000
	Batt. Endpoint	+20	3969 989 996	-3.9	0.000 000	-0.001

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.880 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 499 995	0.0	0.000 000	0.000
	100 %	-30	3712 499 990	-5.2	0.000 000	-0.001
	100 %	-20	3712 499 993	-1.7	0.000 000	0.000
	100 %	-10	3712 499 992	-2.6	0.000 000	-0.001
	100 %	0	3712 499 993	-2.0	0.000 000	-0.001
	100 %	+10	3712 499 992	-3.2	0.000 000	-0.001
	100 %	+30	3712 499 991	-3.9	0.000 000	-0.001
	100 %	+40	3712 499 991	-4.5	0.000 000	-0.001
	100 %	+50	3712 499 990	-4.7	0.000 000	-0.001
	Batt. Endpoint	+20	3712 499 990	-5.4	0.000 000	-0.001
3967.500	100 %	+20(Ref)	3967 499 999	0.0	0.000 000	0.000
	100 %	-30	3967 499 991	-7.9	0.000 000	-0.002
	100 %	-20	3967 499 995	-3.9	0.000 000	-0.001
	100 %	-10	3967 499 995	-4.0	0.000 000	-0.001
	100 %	0	3967 499 993	-5.3	0.000 000	-0.001
	100 %	+10	3967 499 992	-6.4	0.000 000	-0.002
	100 %	+30	3967 499 991	-7.9	0.000 000	-0.002
	100 %	+40	3967 499 993	-5.8	0.000 000	-0.001
	100 %	+50	3967 499 990	-8.3	0.000 000	-0.002
	Batt. Endpoint	+20	3967 499 998	-1.1	0.000 000	0.000

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.880 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 019 996	0.0	0.000 000	0.000
	100 %	-30	3715 019 991	-4.5	0.000 000	-0.001
	100 %	-20	3715 019 992	-3.9	0.000 000	-0.001
	100 %	-10	3715 019 992	-3.9	0.000 000	-0.001
	100 %	0	3715 019 990	-5.3	0.000 000	-0.001
	100 %	+10	3715 019 995	-0.6	0.000 000	0.000
	100 %	+30	3715 019 989	-6.5	0.000 000	-0.002
	100 %	+40	3715 019 991	-4.1	0.000 000	-0.001
	100 %	+50	3715 019 993	-2.6	0.000 000	-0.001
	Batt. Endpoint	+20	3715 019 994	-1.6	0.000 000	0.000
3964.980	100 %	+20(Ref)	3964 979 996	0.0	0.000 000	0.000
	100 %	-30	3964 979 993	-3.3	0.000 000	-0.001
	100 %	-20	3964 979 994	-2.3	0.000 000	-0.001
	100 %	-10	3964 979 994	-2.2	0.000 000	-0.001
	100 %	0	3964 979 993	-3.7	0.000 000	-0.001
	100 %	+10	3964 979 992	-4.4	0.000 000	-0.001
	100 %	+30	3964 979 994	-2.5	0.000 000	-0.001
	100 %	+40	3964 979 992	-4.7	0.000 000	-0.001
	100 %	+50	3964 979 993	-3.5	0.000 000	-0.001
	Batt. Endpoint	+20	3964 979 995	-1.3	0.000 000	0.000

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.880 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 999 995	0.0	0.000 000	0.000
	100 %	-30	3719 999 995	-0.4	0.000 000	0.000
	100 %	-20	3719 999 992	-2.9	0.000 000	-0.001
	100 %	-10	3719 999 993	-2.4	0.000 000	-0.001
	100 %	0	3719 999 994	-1.5	0.000 000	0.000
	100 %	+10	3719 999 991	-4.4	0.000 000	-0.001
	100 %	+30	3719 999 990	-4.5	0.000 000	-0.001
	100 %	+40	3719 999 992	-3.0	0.000 000	-0.001
	100 %	+50	3719 999 993	-1.6	0.000 000	0.000
	Batt. Endpoint	+20	3719 999 991	-3.5	0.000 000	-0.001
3960.000	100 %	+20(Ref)	3959 999 994	0.0	0.000 000	0.000
	100 %	-30	3959 999 986	-8.2	0.000 000	-0.002
	100 %	-20	3959 999 985	-9.4	0.000 000	-0.002
	100 %	-10	3959 999 990	-3.7	0.000 000	-0.001
	100 %	0	3959 999 988	-6.4	0.000 000	-0.002
	100 %	+10	3959 999 985	-8.6	0.000 000	-0.002
	100 %	+30	3959 999 990	-4.2	0.000 000	-0.001
	100 %	+40	3959 999 993	-0.4	0.000 000	0.000
	100 %	+50	3959 999 987	-6.5	0.000 000	-0.002
	Batt. Endpoint	+20	3959 999 990	-3.6	0.000 000	-0.001

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 3.880 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 009 997	0.0	0.000 000	0.000
	100 %	-30	3725 009 993	-4.2	0.000 000	-0.001
	100 %	-20	3725 009 994	-3.3	0.000 000	-0.001
	100 %	-10	3725 009 998	0.8	0.000 000	0.000
	100 %	0	3725 009 996	-0.8	0.000 000	0.000
	100 %	+10	3725 009 995	-2.0	0.000 000	-0.001
	100 %	+30	3725 009 993	-4.1	0.000 000	-0.001
	100 %	+40	3725 009 993	-4.1	0.000 000	-0.001
	100 %	+50	3725 009 995	-2.5	0.000 000	-0.001
	Batt. Endpoint	+20	3725 009 994	-2.9	0.000 000	-0.001
3954.990	100 %	+20(Ref)	3954 989 995	0.0	0.000 000	0.000
	100 %	-30	3954 989 988	-6.9	0.000 000	-0.002
	100 %	-20	3954 989 985	-10.1	0.000 000	-0.003
	100 %	-10	3954 989 999	3.5	0.000 000	0.001
	100 %	0	3954 989 988	-7.4	0.000 000	-0.002
	100 %	+10	3954 989 990	-5.3	0.000 000	-0.001
	100 %	+30	3954 989 988	-7.3	0.000 000	-0.002
	100 %	+40	3954 989 985	-9.9	0.000 000	-0.003
	100 %	+50	3954 989 990	-5.0	0.000 000	-0.001
	Batt. Endpoint	+20	3954 989 991	-4.0	0.000 000	-0.001

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 3.880 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 019 997	0.0	0.000 000	0.000
	100 %	-30	3730 019 993	-4.5	0.000 000	-0.001
	100 %	-20	3730 019 997	0.2	0.000 000	0.000
	100 %	-10	3730 019 996	-1.3	0.000 000	0.000
	100 %	0	3730 019 994	-2.9	0.000 000	-0.001
	100 %	+10	3730 019 996	-0.7	0.000 000	0.000
	100 %	+30	3730 019 996	-1.2	0.000 000	0.000
	100 %	+40	3730 019 997	-0.2	0.000 000	0.000
	100 %	+50	3730 019 995	-1.7	0.000 000	0.000
	Batt. Endpoint	+20	3730 019 994	-3.1	0.000 000	-0.001
3949.980	100 %	+20(Ref)	3949 979 990	0.0	0.000 000	0.000
	100 %	-30	3949 979 981	-8.8	0.000 000	-0.002
	100 %	-20	3949 979 986	-3.7	0.000 000	-0.001
	100 %	-10	3949 979 982	-8.5	0.000 000	-0.002
	100 %	0	3949 979 976	-13.7	0.000 000	-0.003
	100 %	+10	3949 979 979	-11.3	0.000 000	-0.003
	100 %	+30	3949 979 979	-10.7	0.000 000	-0.003
	100 %	+40	3949 979 983	-6.9	0.000 000	-0.002
	100 %	+50	3949 979 983	-7.0	0.000 000	-0.002
	Batt. Endpoint	+20	3949 979 981	-9.3	0.000 000	-0.002

- ▣ BandWidth: 70 MHz
- ▣ Voltage(100 %): 3.880 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 999 992	0.0	0.000 000	0.000
	100 %	-30	3734 999 983	-9.1	0.000 000	-0.002
	100 %	-20	3734 999 984	-8.0	0.000 000	-0.002
	100 %	-10	3734 999 982	-9.9	0.000 000	-0.003
	100 %	0	3734 999 987	-4.7	0.000 000	-0.001
	100 %	+10	3734 999 986	-5.5	0.000 000	-0.001
	100 %	+30	3734 999 983	-9.3	0.000 000	-0.002
	100 %	+40	3734 999 988	-4.5	0.000 000	-0.001
	100 %	+50	3734 999 987	-4.7	0.000 000	-0.001
	Batt. Endpoint	+20	3734 999 984	-8.0	0.000 000	-0.002
3945.000	100 %	+20(Ref)	3944 999 992	0.0	0.000 000	0.000
	100 %	-30	3944 999 985	-7.4	0.000 000	-0.002
	100 %	-20	3944 999 984	-8.4	0.000 000	-0.002
	100 %	-10	3944 999 984	-7.9	0.000 000	-0.002
	100 %	0	3944 999 984	-8.5	0.000 000	-0.002
	100 %	+10	3944 999 984	-7.8	0.000 000	-0.002
	100 %	+30	3944 999 985	-6.7	0.000 000	-0.002
	100 %	+40	3944 999 989	-3.5	0.000 000	-0.001
	100 %	+50	3944 999 992	-0.4	0.000 000	0.000
	Batt. Endpoint	+20	3944 999 983	-9.5	0.000 000	-0.002

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 3.880 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 009 986	0.0	0.000 000	0.000
	100 %	-30	3740 009 984	-2.2	0.000 000	-0.001
	100 %	-20	3740 009 973	-13.5	0.000 000	-0.004
	100 %	-10	3740 009 973	-13.5	0.000 000	-0.004
	100 %	0	3740 009 976	-10.5	0.000 000	-0.003
	100 %	+10	3740 009 976	-10.3	0.000 000	-0.003
	100 %	+30	3740 009 972	-13.8	0.000 000	-0.004
	100 %	+40	3740 009 975	-11.2	0.000 000	-0.003
	100 %	+50	3740 009 976	-10.3	0.000 000	-0.003
	Batt. Endpoint	+20	3740 009 979	-7.7	0.000 000	-0.002
3939.990	100 %	+20(Ref)	3939 989 993	0.0	0.000 000	0.000
	100 %	-30	3939 989 988	-4.7	0.000 000	-0.001
	100 %	-20	3939 989 989	-4.3	0.000 000	-0.001
	100 %	-10	3939 989 990	-3.2	0.000 000	-0.001
	100 %	0	3939 989 994	0.8	0.000 000	0.000
	100 %	+10	3939 989 994	0.6	0.000 000	0.000
	100 %	+30	3939 989 984	-8.7	0.000 000	-0.002
	100 %	+40	3939 989 991	-2.3	0.000 000	-0.001
	100 %	+50	3939 989 975	-18.2	0.000 000	-0.005
	Batt. Endpoint	+20	3939 989 989	-4.1	0.000 000	-0.001

- ▣ BandWidth: 90 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

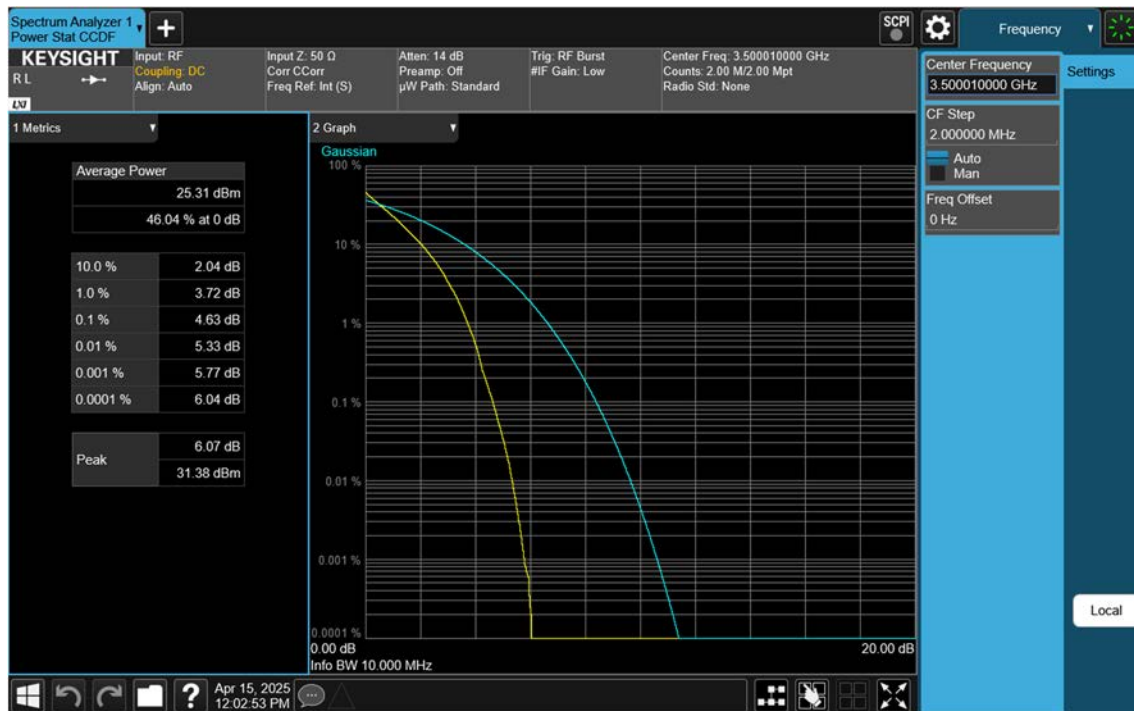
Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3745.020	100 %	+20(Ref)	3745 020 002	0.0	0.000 000	0.000
	100 %	-30	3745 019 999	-3.1	0.000 000	-0.001
	100 %	-20	3745 019 998	-3.8	0.000 000	-0.001
	100 %	-10	3745 020 000	-1.6	0.000 000	0.000
	100 %	0	3745 019 997	-4.5	0.000 000	-0.001
	100 %	+10	3745 019 999	-2.7	0.000 000	-0.001
	100 %	+30	3745 020 003	1.4	0.000 000	0.000
	100 %	+40	3745 019 999	-3.3	0.000 000	-0.001
	100 %	+50	3745 019 998	-4.2	0.000 000	-0.001
	Batt. Endpoint	+20	3745 019 999	-2.5	0.000 000	-0.001
3934.980	100 %	+20(Ref)	3934 980 007	0.0	0.000 000	0.000
	100 %	-30	3934 980 007	0.5	0.000 000	0.000
	100 %	-20	3934 980 008	1.4	0.000 000	0.000
	100 %	-10	3934 980 004	-2.3	0.000 000	-0.001
	100 %	0	3934 980 010	3.6	0.000 000	0.001
	100 %	+10	3934 980 009	2.3	0.000 000	0.001
	100 %	+30	3934 980 009	2.3	0.000 000	0.001
	100 %	+40	3934 979 999	-7.5	0.000 000	-0.002
	100 %	+50	3934 980 015	8.5	0.000 000	0.002
	Batt. Endpoint	+20	3934 980 008	1.2	0.000 000	0.000

- ▣ BandWidth: 100 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

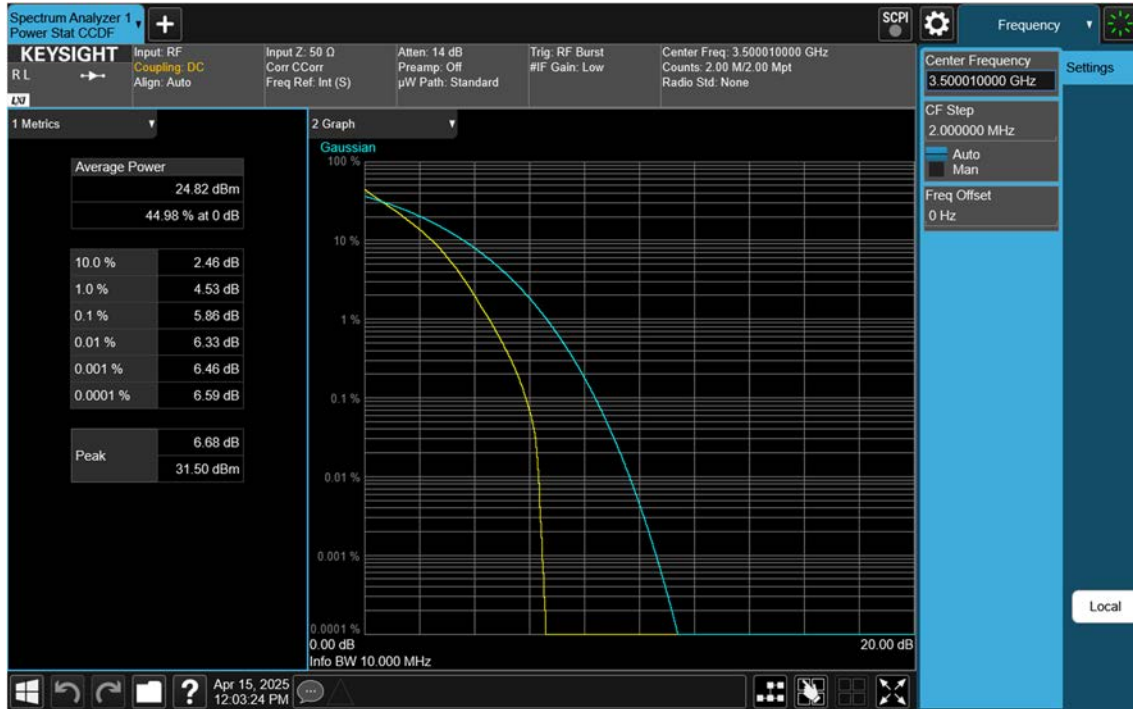
Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3750.000	100 %	+20(Ref)	3749 999 995	0.0	0.000 000	0.000
	100 %	-30	3749 999 990	-5.0	0.000 000	-0.001
	100 %	-20	3749 999 992	-3.0	0.000 000	-0.001
	100 %	-10	3749 999 990	-5.7	0.000 000	-0.002
	100 %	0	3749 999 994	-1.7	0.000 000	0.000
	100 %	+10	3749 999 991	-4.4	0.000 000	-0.001
	100 %	+30	3749 999 993	-2.3	0.000 000	-0.001
	100 %	+40	3749 999 992	-3.3	0.000 000	-0.001
	100 %	+50	3749 999 991	-4.3	0.000 000	-0.001
	Batt. Endpoint	+20	3749 999 991	-4.3	0.000 000	-0.001
3930.000	100 %	+20(Ref)	3929 999 996	0.0	0.000 000	0.000
	100 %	-30	3929 999 993	-3.3	0.000 000	-0.001
	100 %	-20	3929 999 995	-1.5	0.000 000	0.000
	100 %	-10	3929 999 992	-4.4	0.000 000	-0.001
	100 %	0	3929 999 992	-4.4	0.000 000	-0.001
	100 %	+10	3929 999 993	-3.4	0.000 000	-0.001
	100 %	+30	3929 999 992	-4.0	0.000 000	-0.001
	100 %	+40	3929 999 990	-6.6	0.000 000	-0.002
	100 %	+50	3929 999 994	-1.8	0.000 000	0.000
	Batt. Endpoint	+20	3929 999 992	-4.6	0.000 000	-0.001

10. TEST PLOTS(3450 MHz - 3550 MHz)

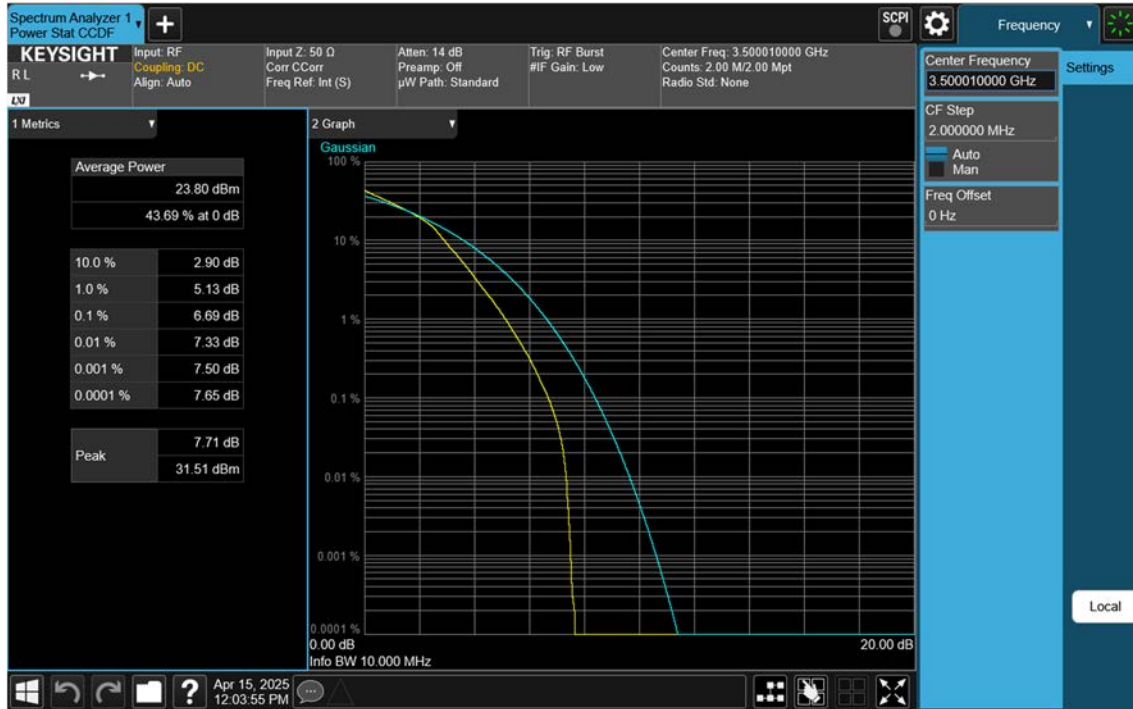
n77(3450~3550 MHz)_10 M_PAR_Mid_BPSK_FullRB



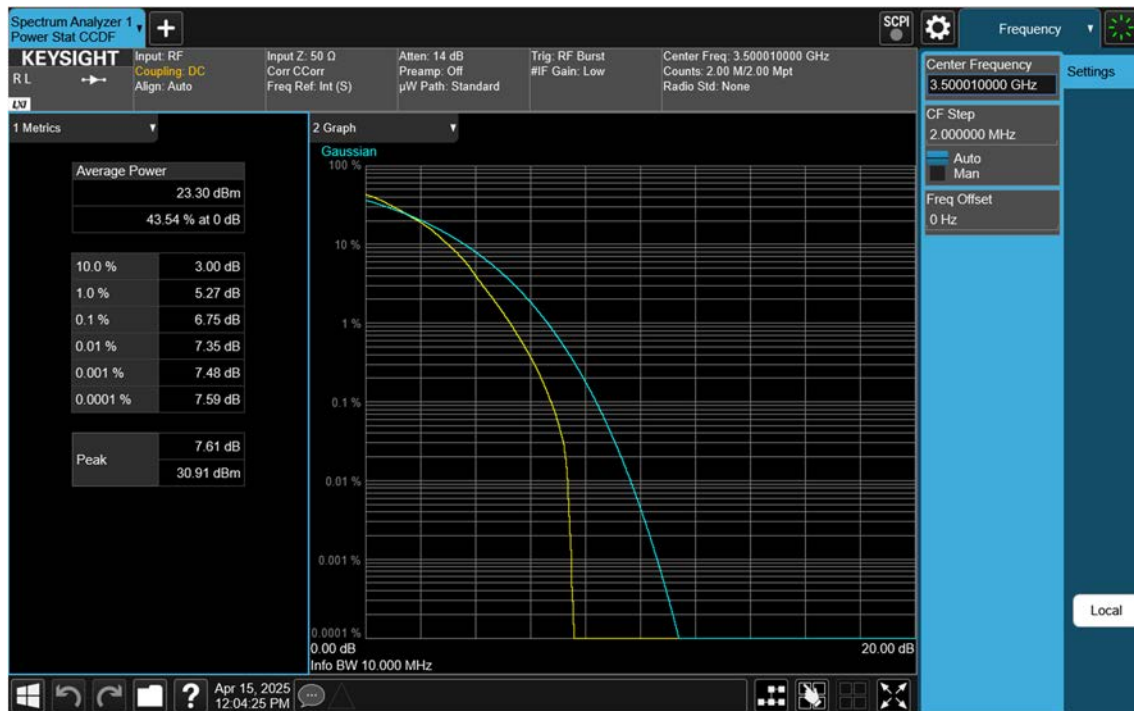
n77(3450~3550 MHz)_10 M_PAR_Mid_QPSK_FullRB



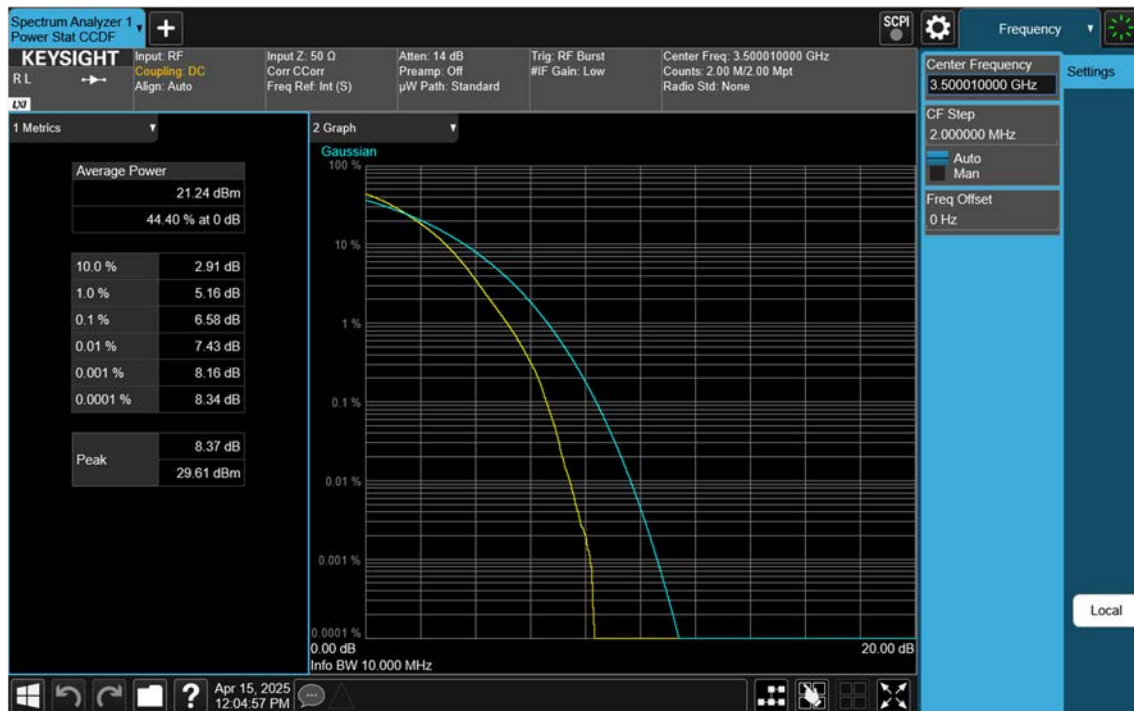
n77(3450~3550 MHz)_10 M_PAR_Mid_16QAM_FullRB



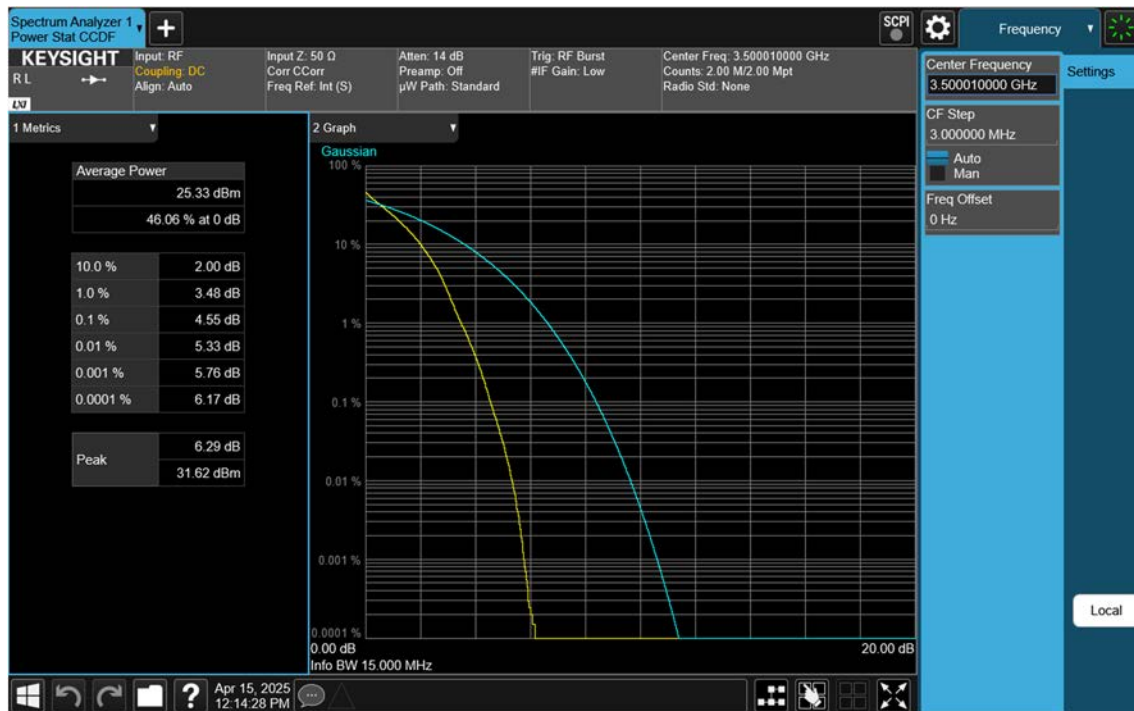
n77(3450~3550 MHz)_10 M_PAR_Mid_64QAM_FullRB



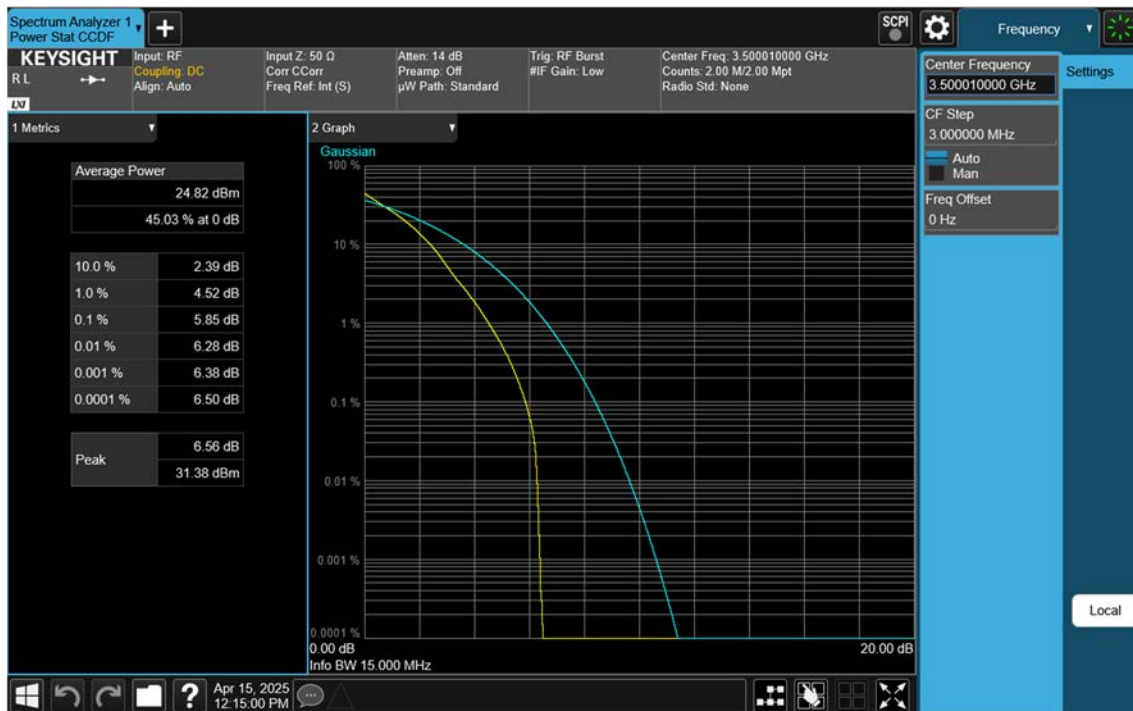
n77(3450~3550 MHz)_10 M_PAR_Mid_256QAM_FullRB



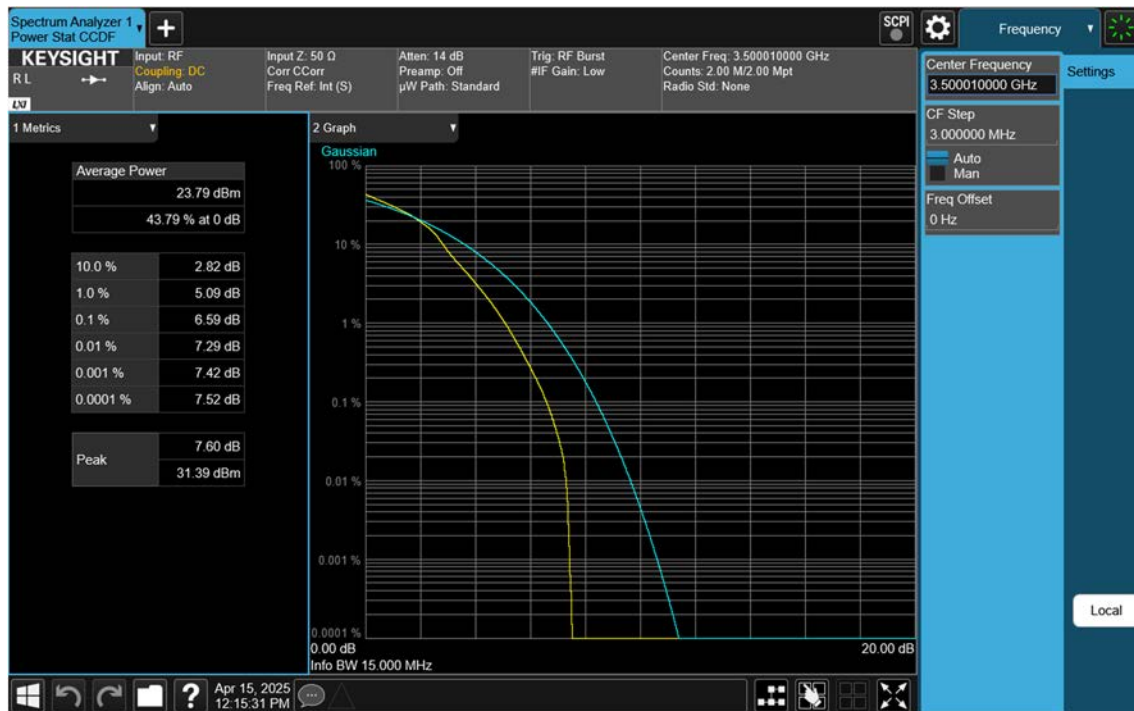
n77(3450~3550 MHz)_15 M_PAR_Mid_BPSK_FullRB



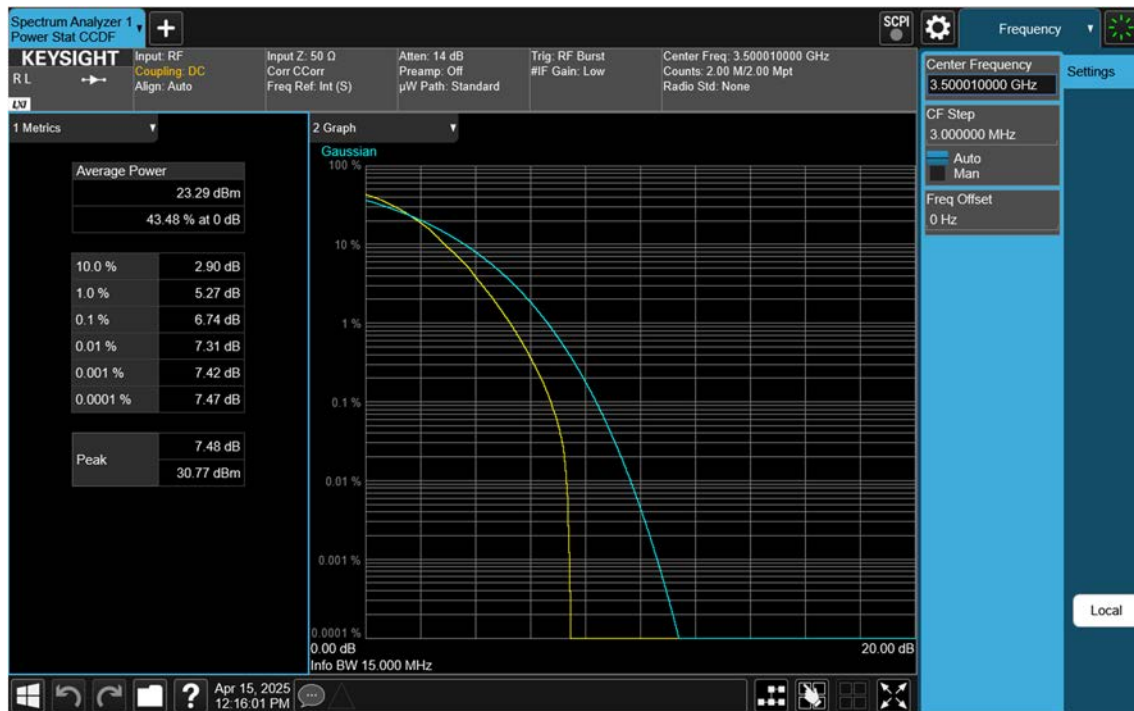
n77(3450~3550 MHz)_15 M_PAR_Mid_QPSK_FullRB



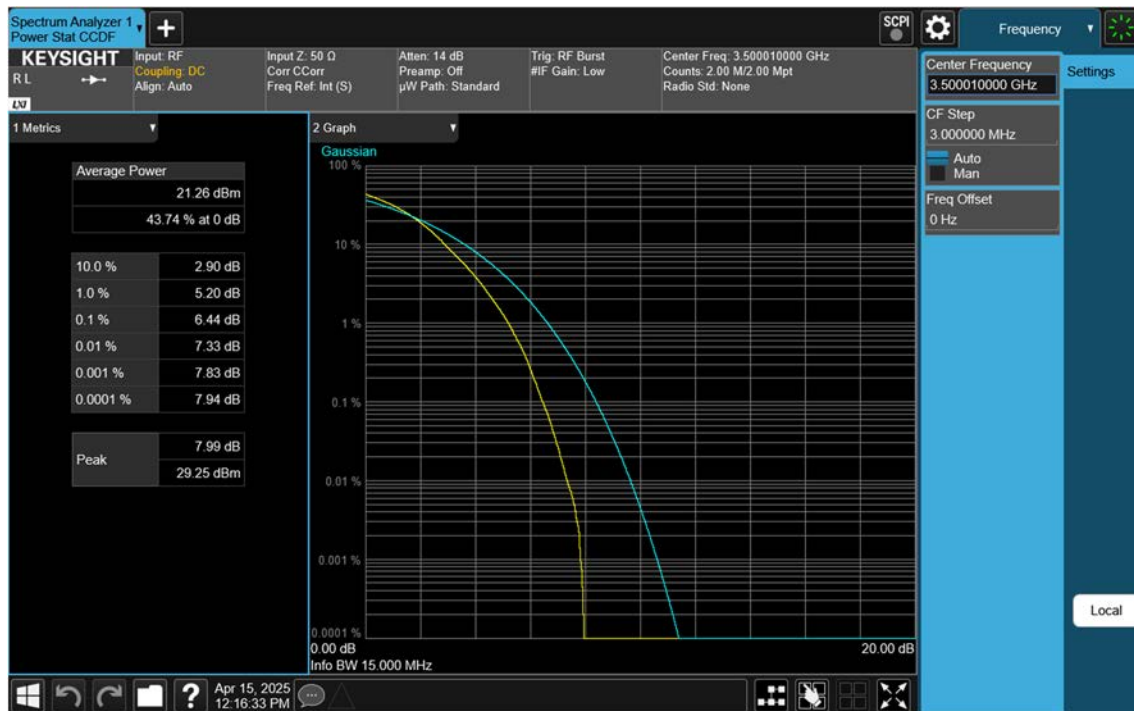
n77(3450~3550 MHz)_15 M_PAR_Mid_16QAM_FullRB



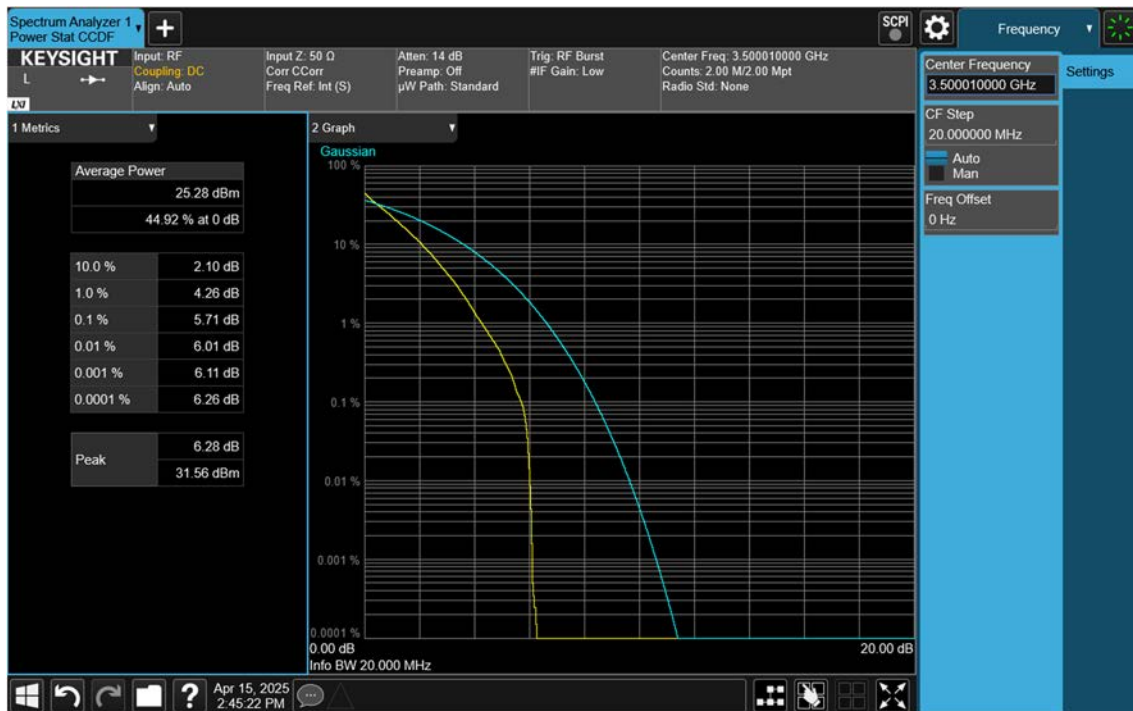
n77(3450~3550 MHz)_15 M_PAR_Mid_64QAM_FullRB



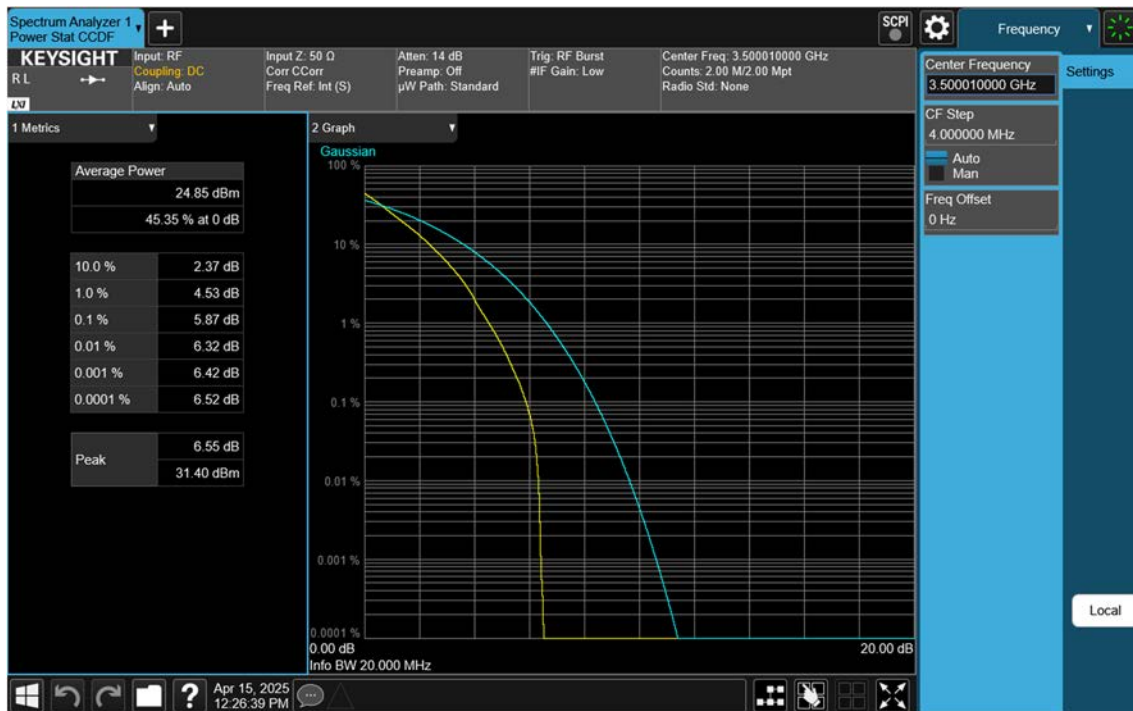
n77(3450~3550 MHz)_15 M_PAR_Mid_256QAM_FullRB



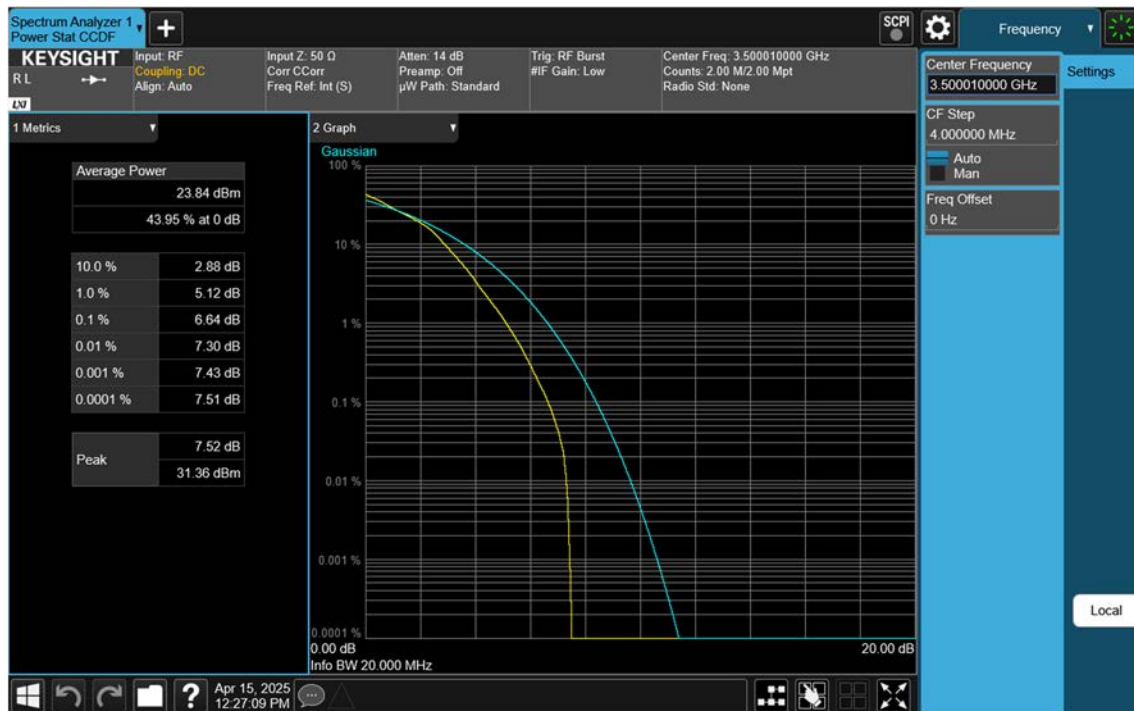
n77(3450~3550 MHz)_20 M_PAR_Mid_BPSK_FullRB



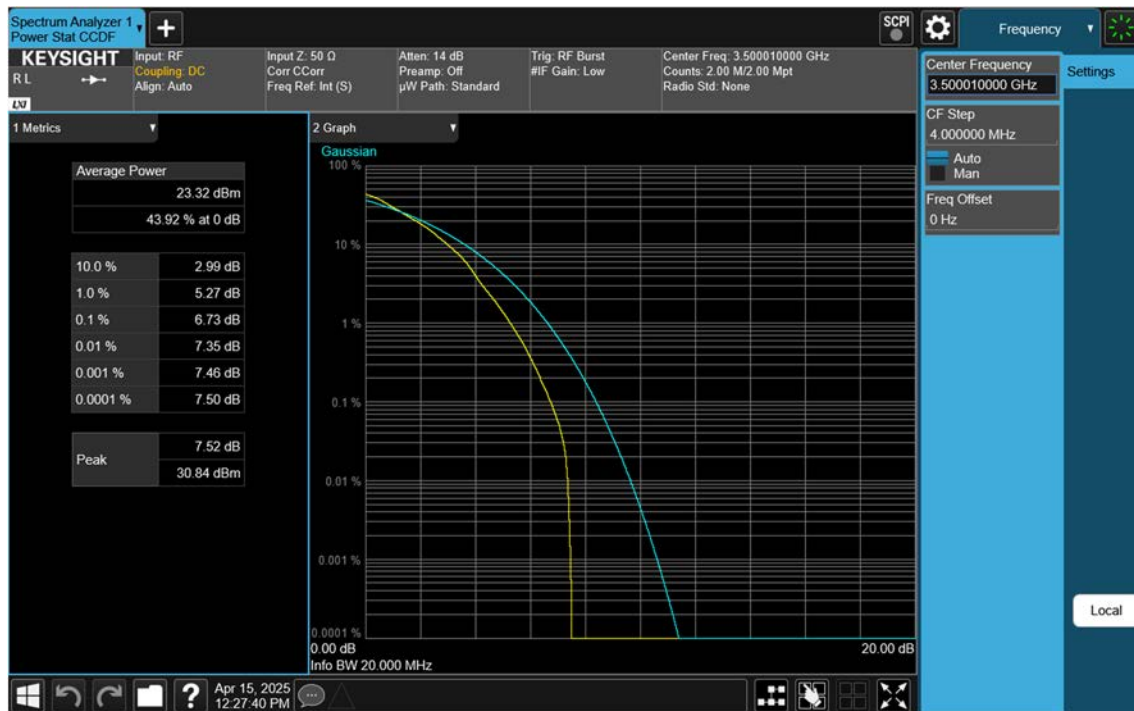
n77(3450~3550 MHz)_20 M_PAR_Mid_QPSK_FullRB



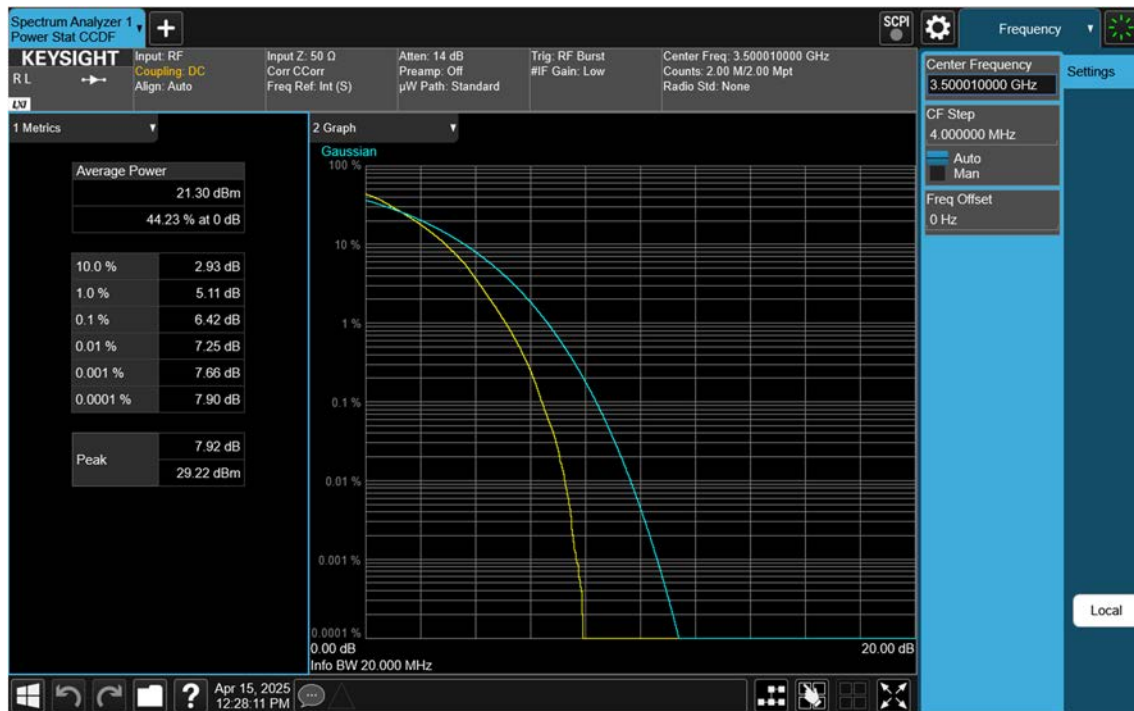
n77(3450~3550 MHz)_20 M_PAR_Mid_16QAM_FullRB



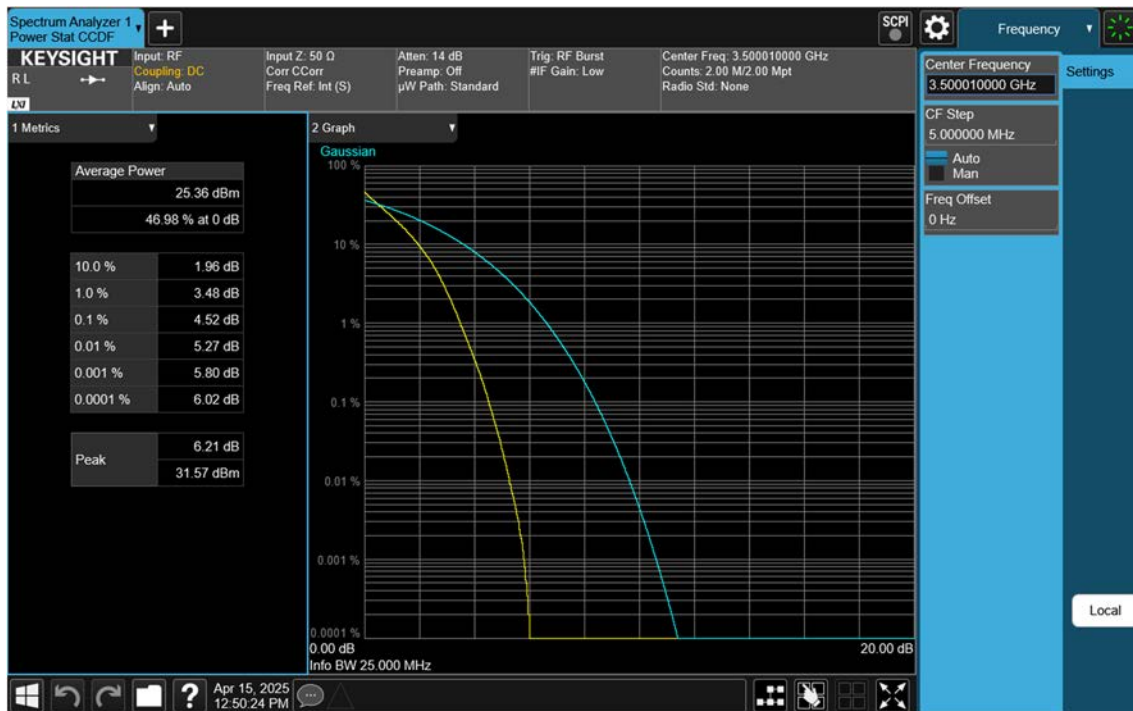
n77(3450~3550 MHz)_20 M_PAR_Mid_64QAM_FullRB



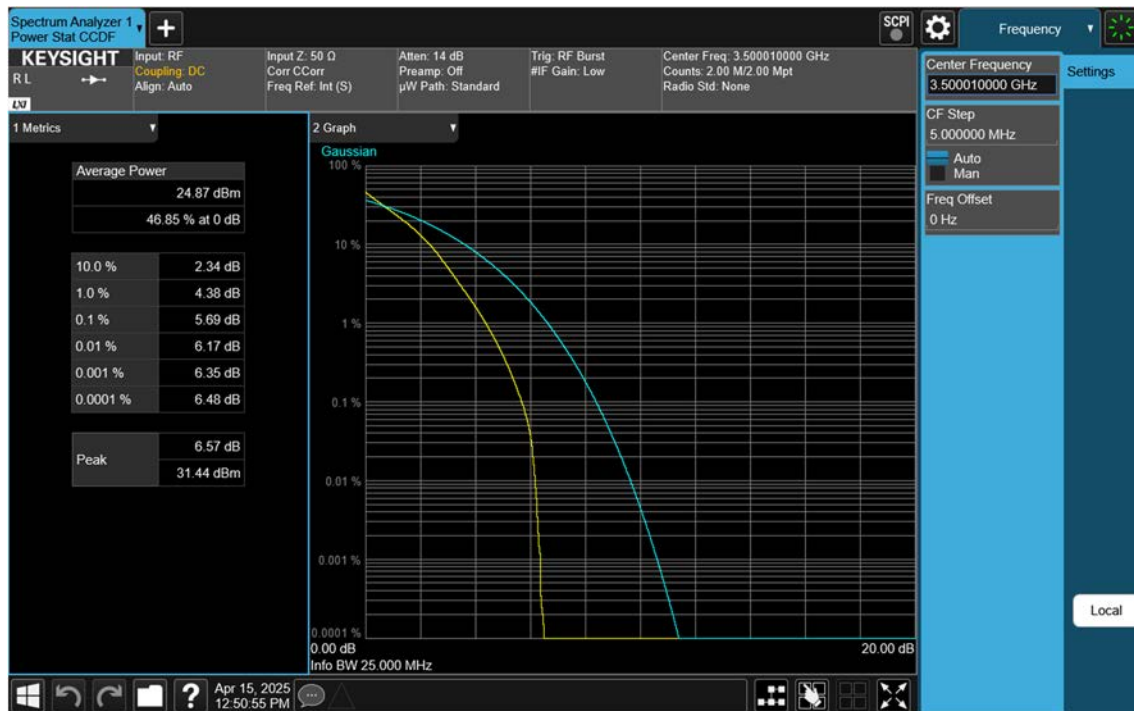
n77(3450~3550 MHz)_20 M_PAR_Mid_256QAM_FullRB



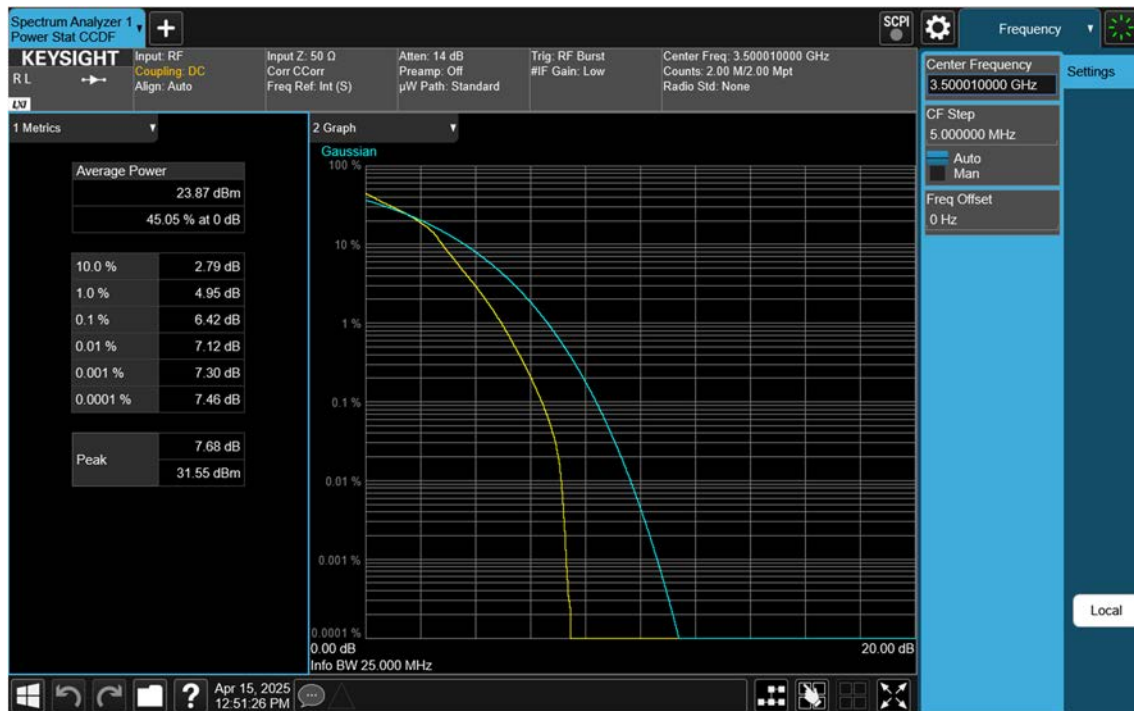
n77(3450~3550 MHz)_25 M_PAR_Mid_BPSK_FullRB



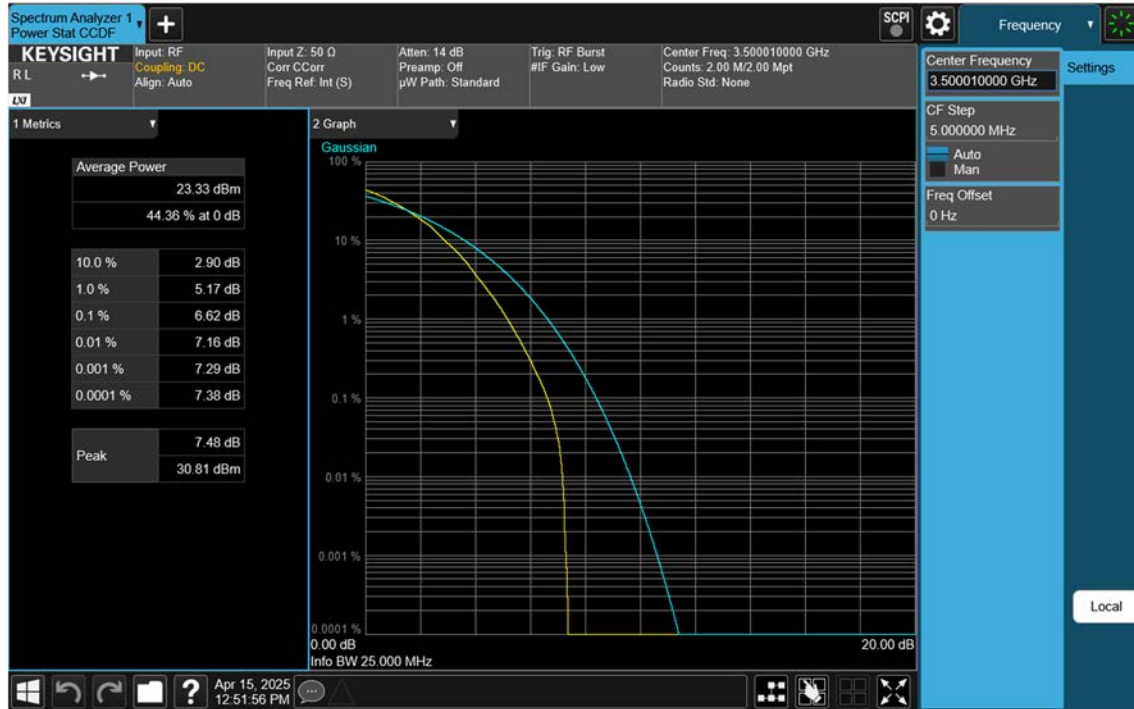
n77(3450~3550 MHz)_25 M_PAR_Mid_QPSK_FullRB



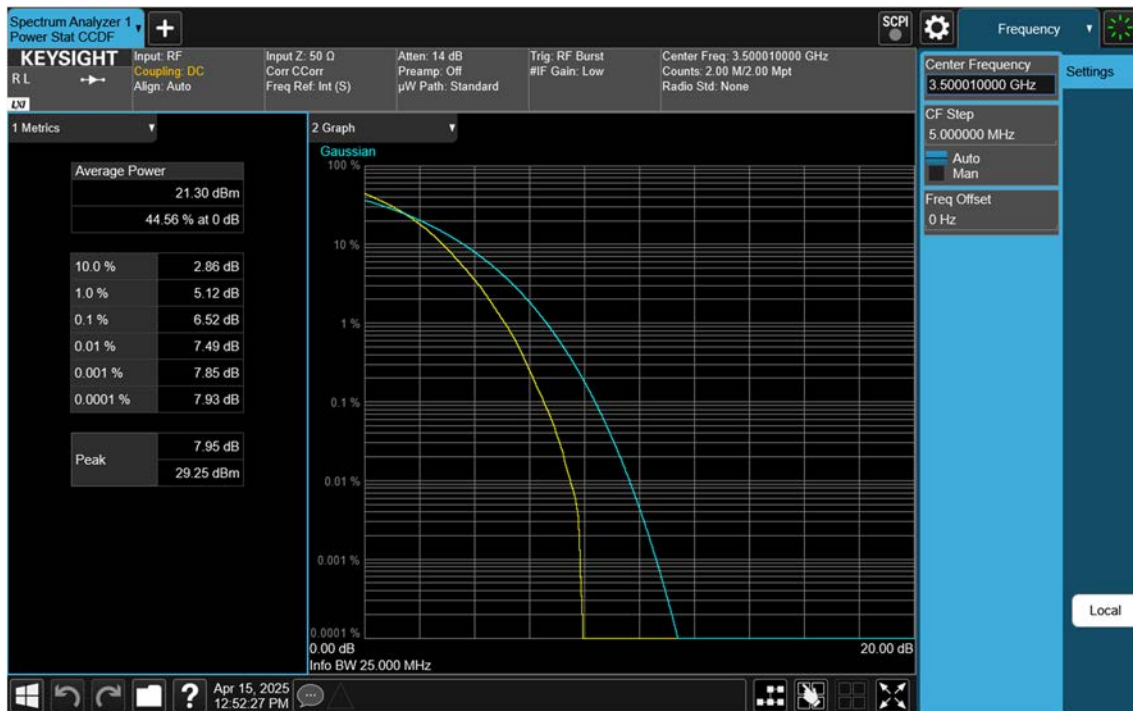
n77(3450~3550 MHz)_25 M_PAR_Mid_16QAM_FullRB



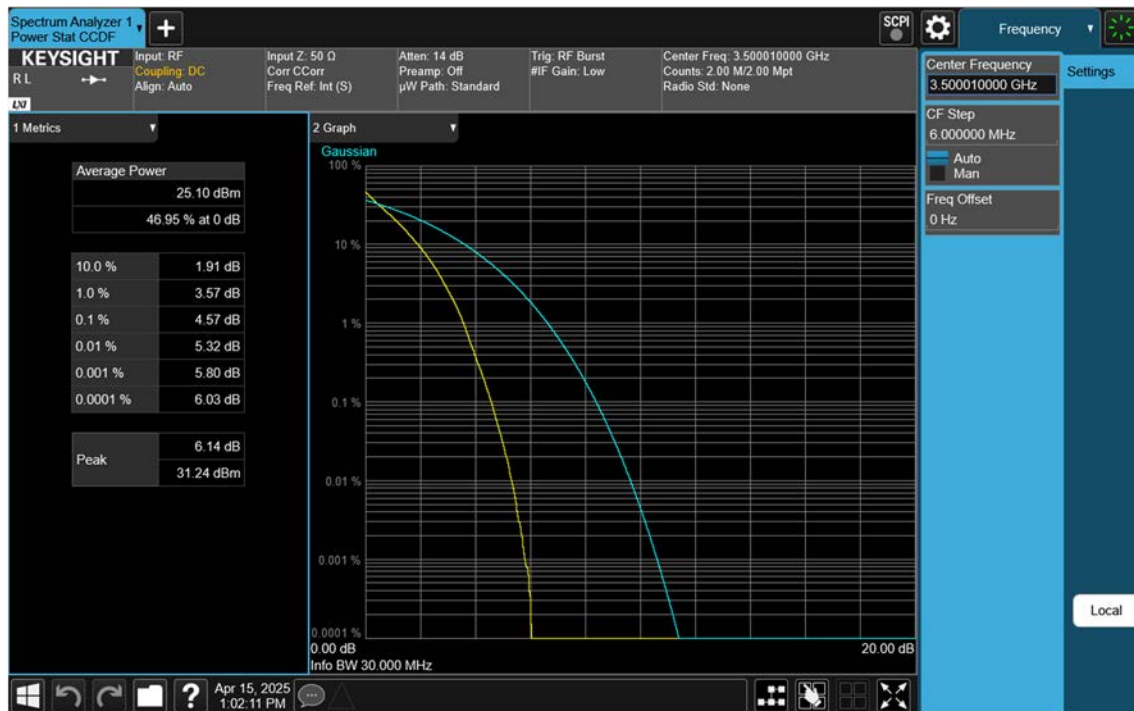
n77(3450~3550 MHz)_25 M_PAR_Mid_64QAM_FullRB



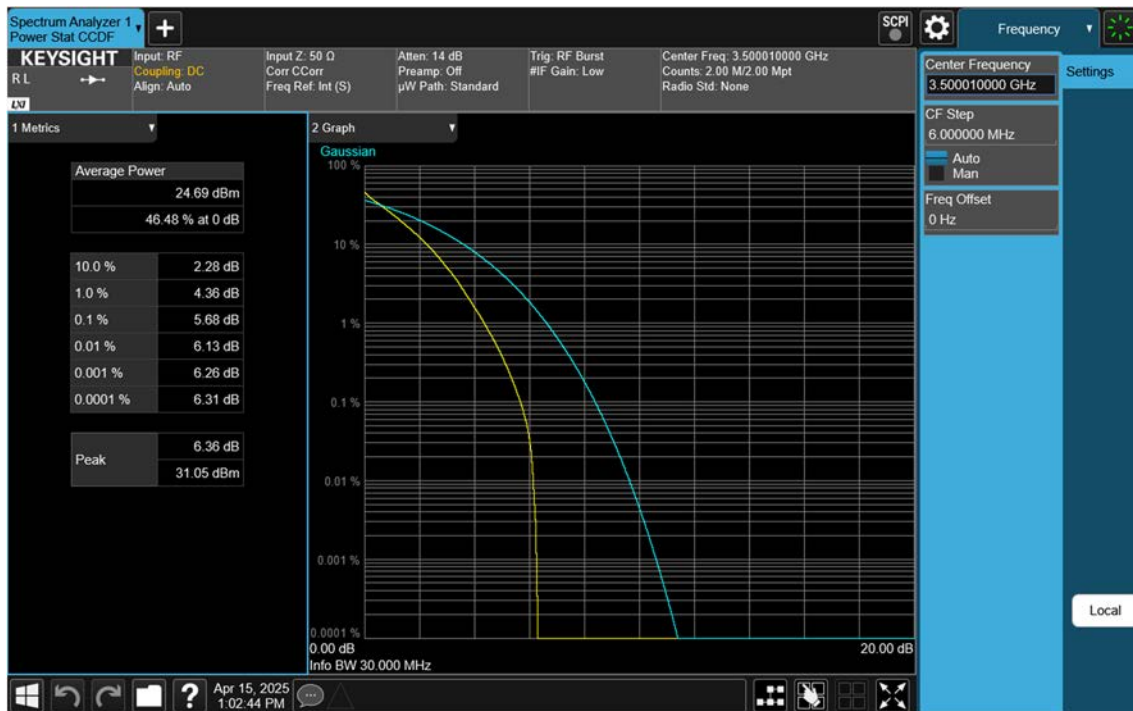
n77(3450~3550 MHz)_25 M_PAR_Mid_256QAM_FullRB



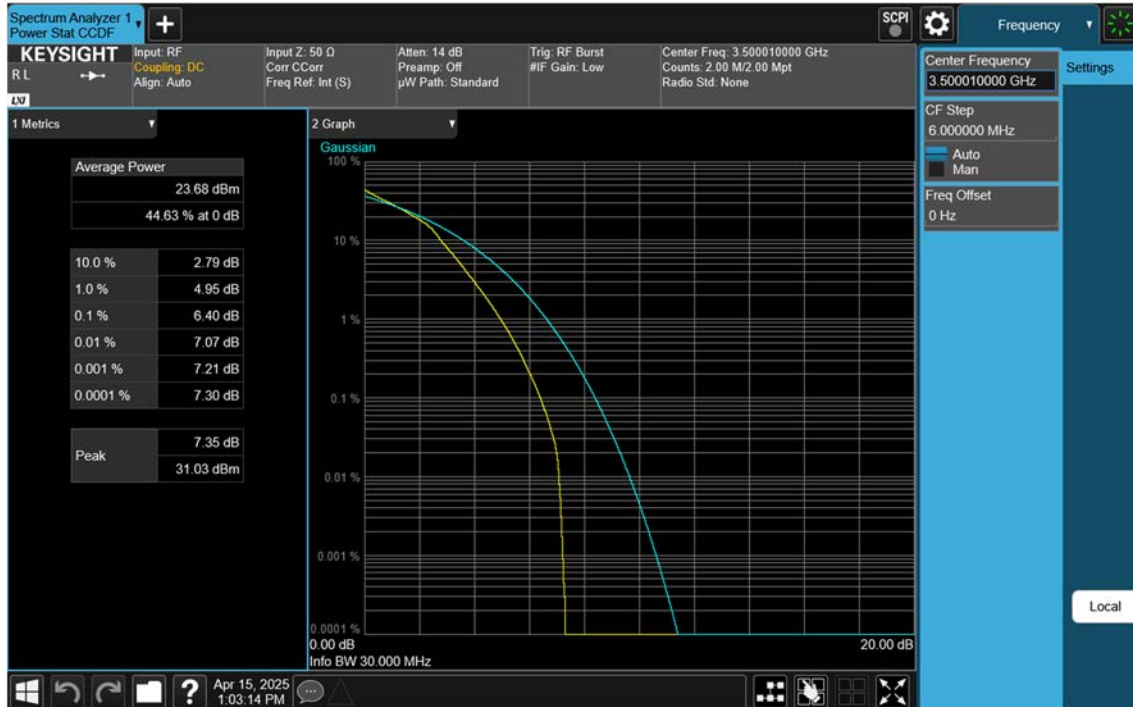
n77(3450~3550 MHz)_30 M_PAR_Mid_BPSK_FullRB



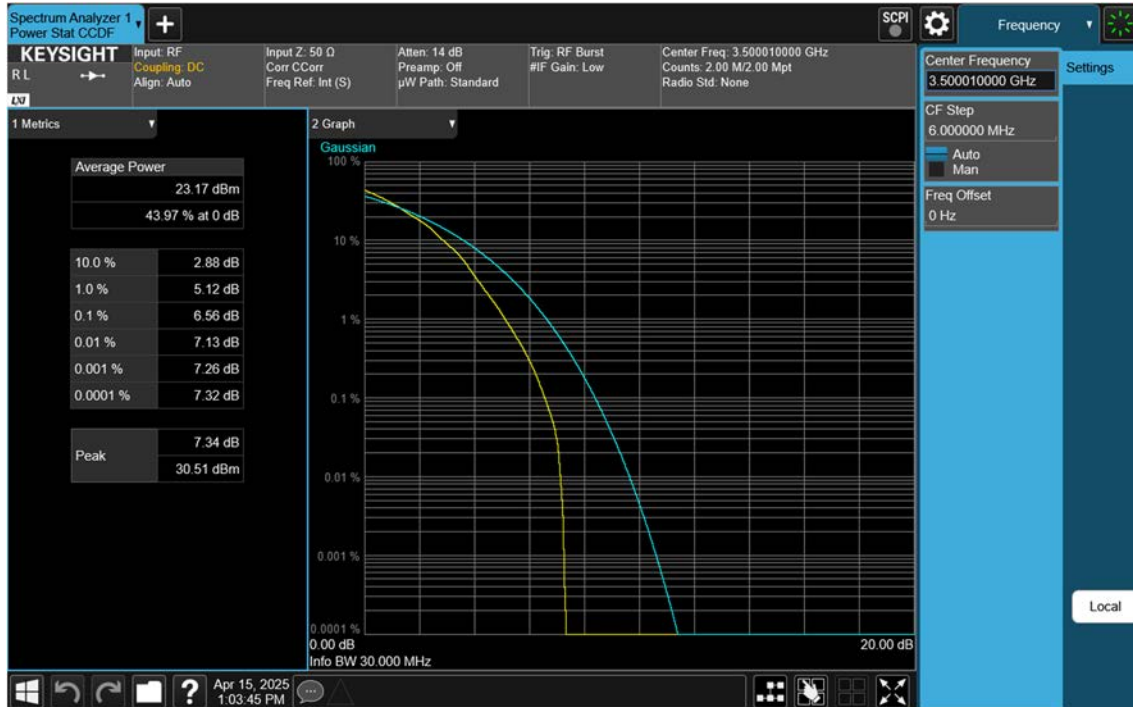
n77(3450~3550 MHz)_30 M_PAR_Mid_QPSK_FullRB



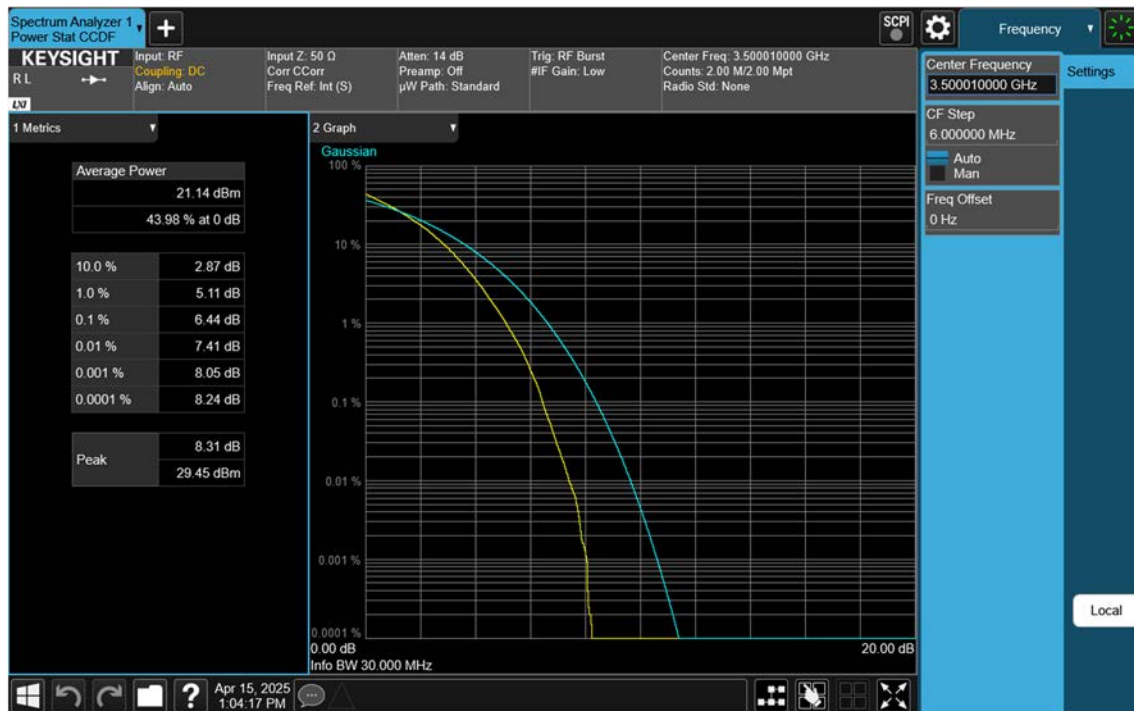
n77(3450~3550 MHz)_30 M_PAR_Mid_16QAM_FullRB



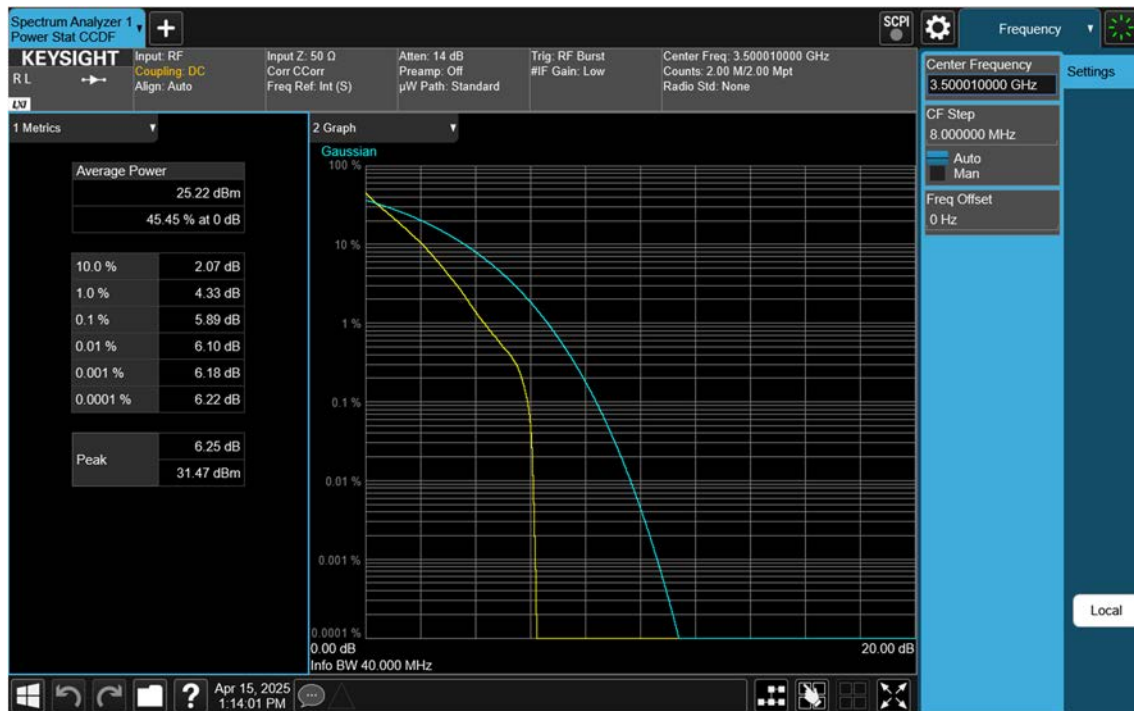
n77(3450~3550 MHz)_30 M_PAR_Mid_64QAM_FullRB



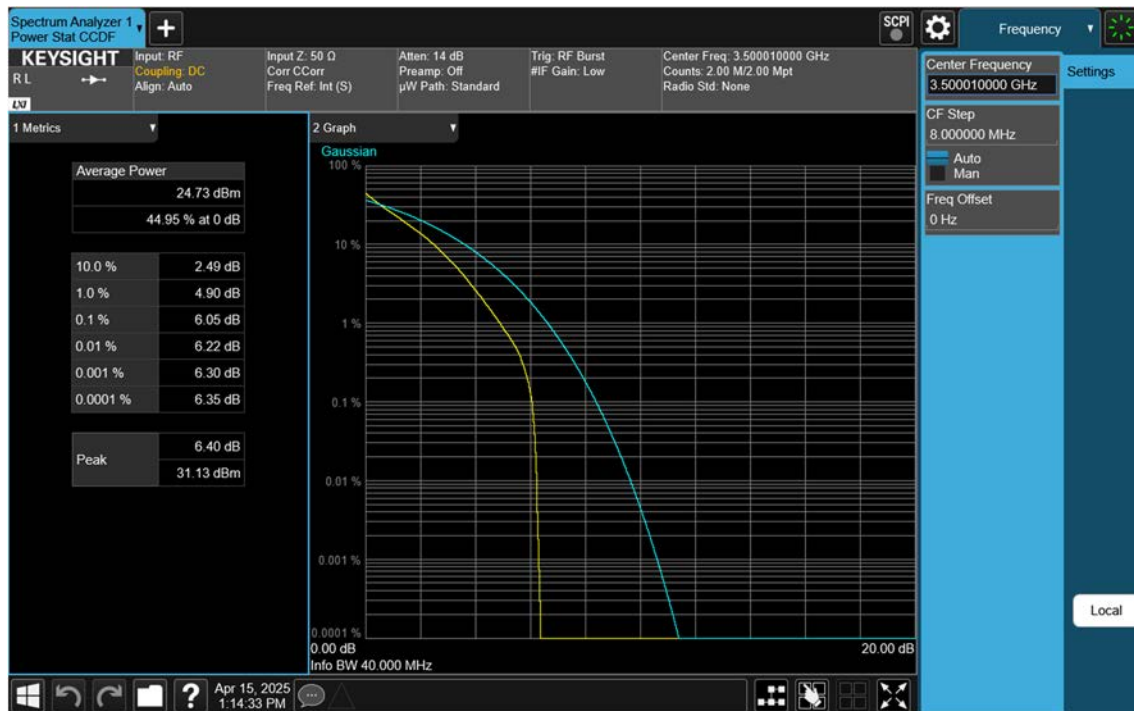
n77(3450~3550 MHz)_30 M_PAR_Mid_256QAM_FullRB



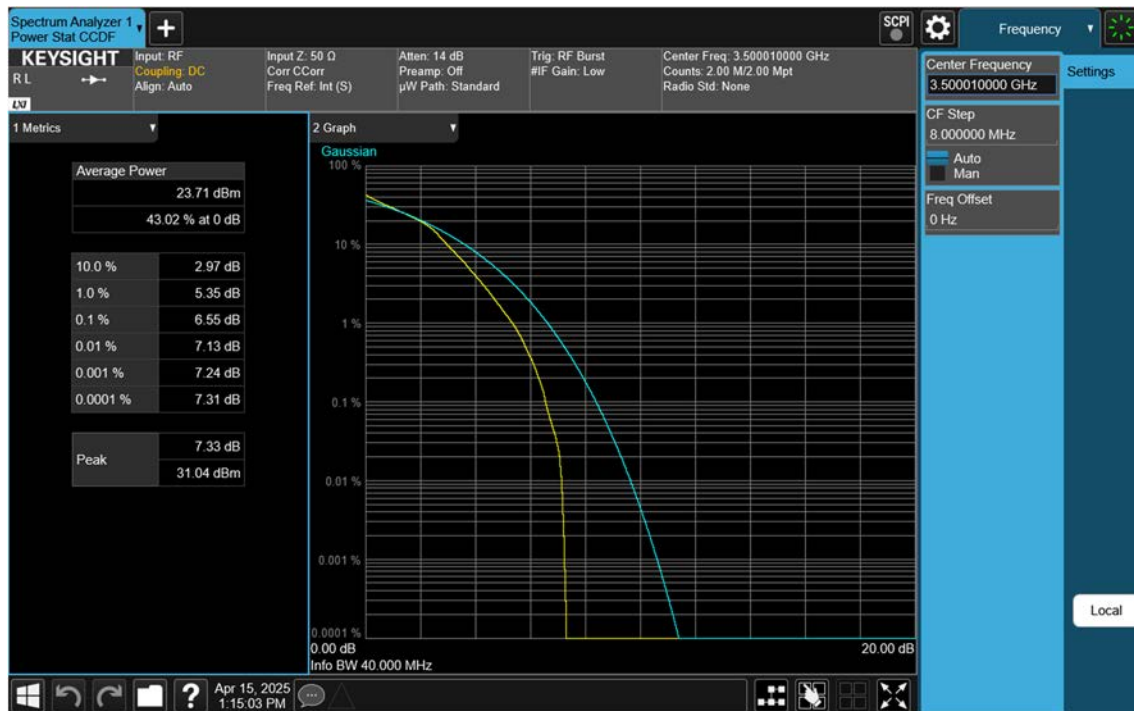
n77(3450~3550 MHz)_40 M_PAR_Mid_BPSK_FullRB



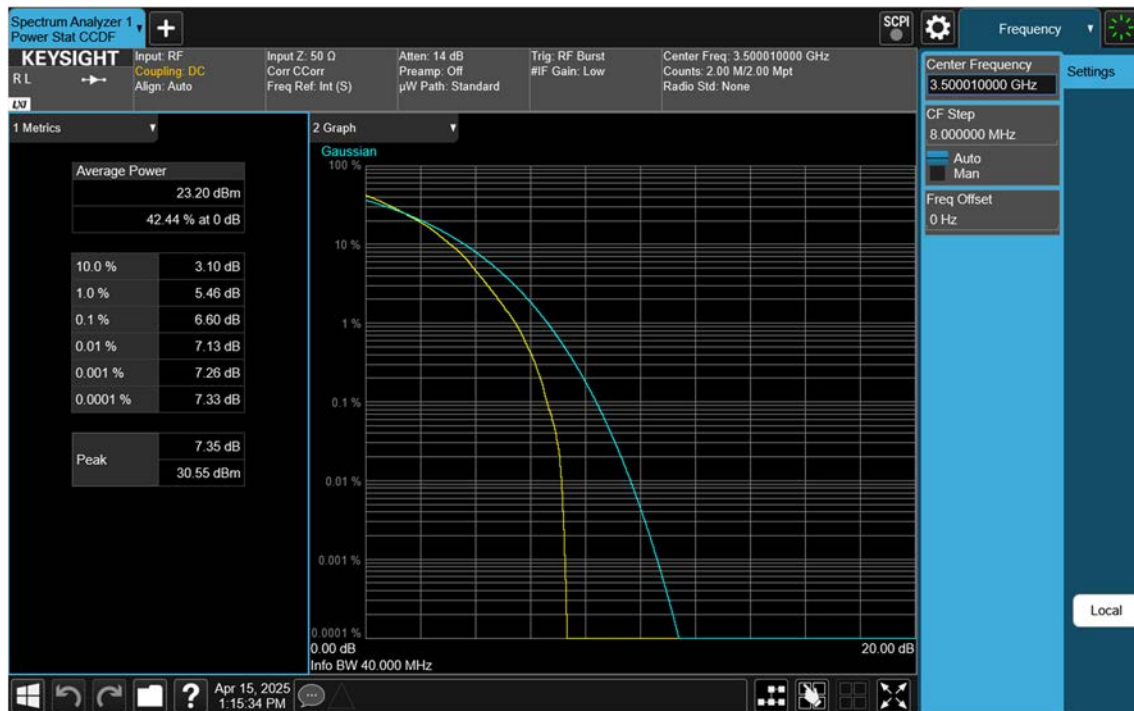
n77(3450~3550 MHz)_40 M_PAR_Mid_QPSK_FullRB



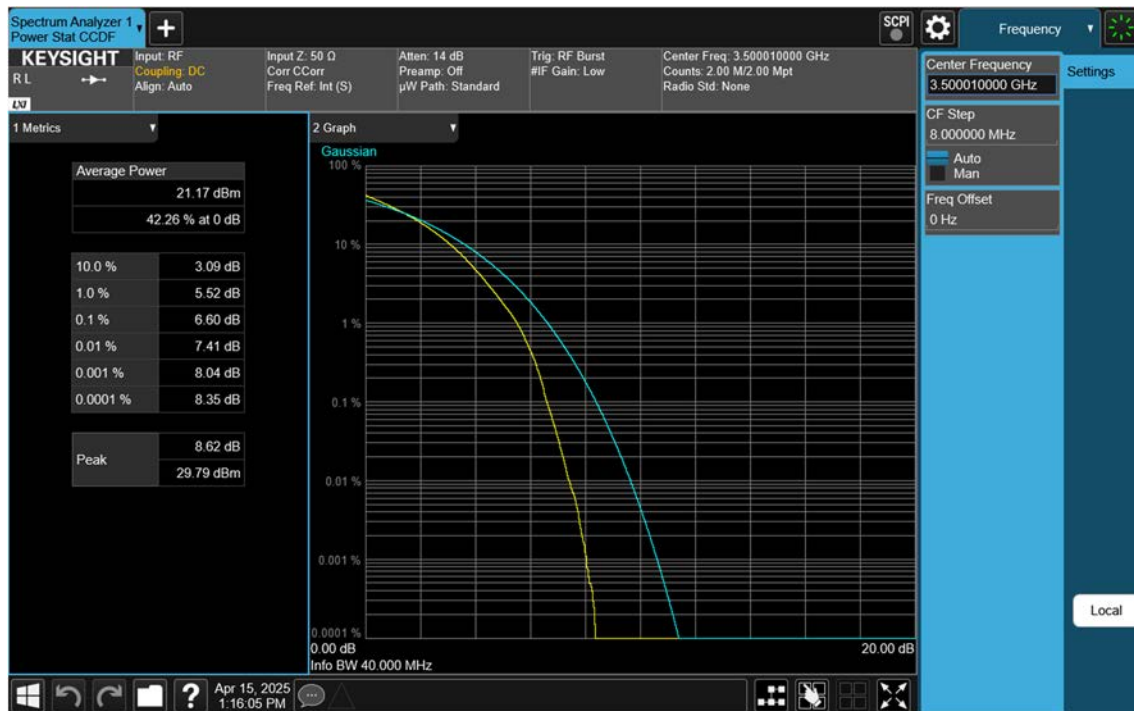
n77(3450~3550 MHz)_40 M_PAR_Mid_16QAM_FullRB



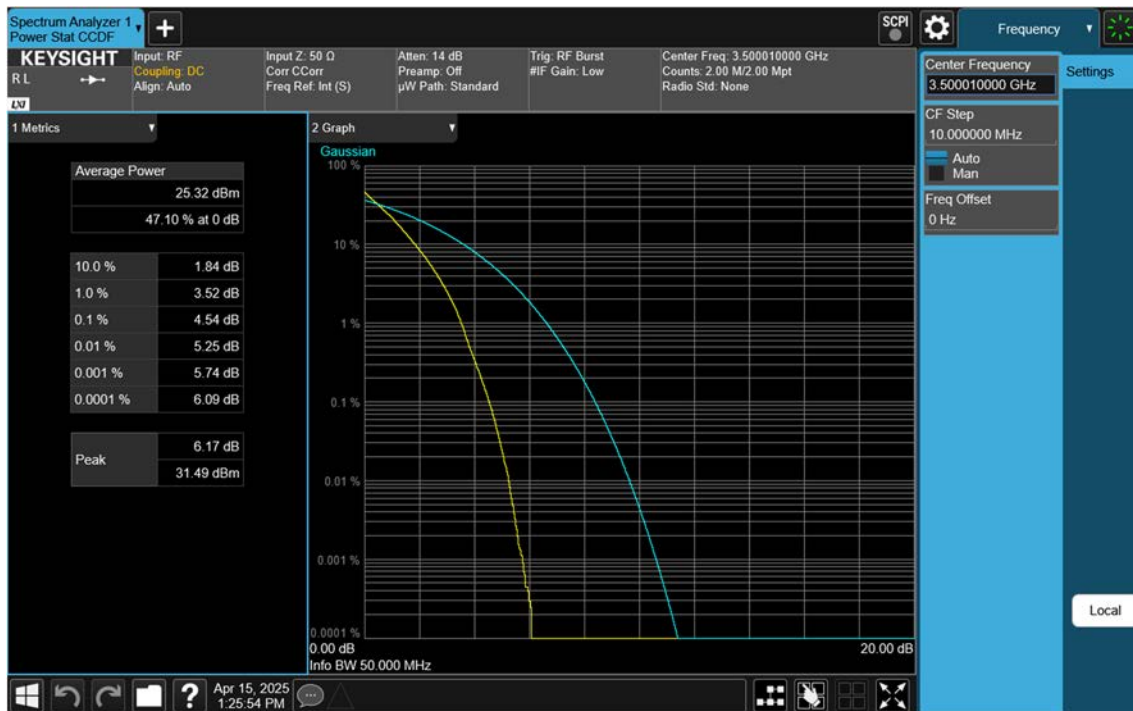
n77(3450~3550 MHz)_40 M_PAR_Mid_64QAM_FullRB



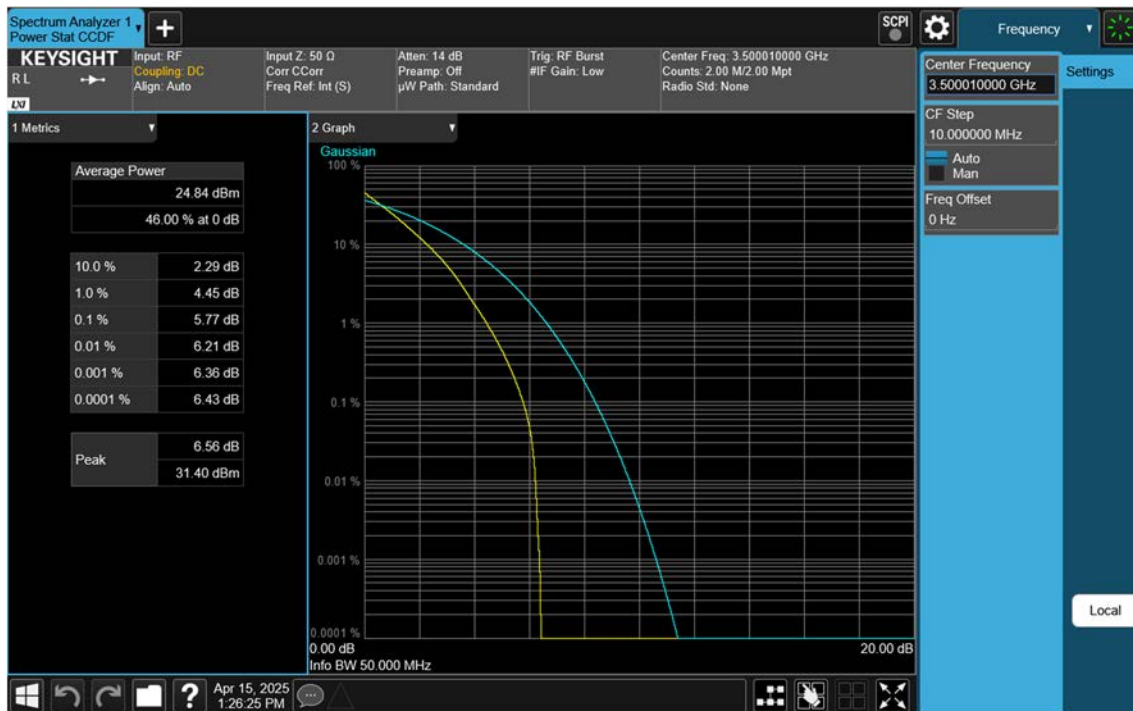
n77(3450~3550 MHz)_40 M_PAR_Mid_256QAM_FullRB



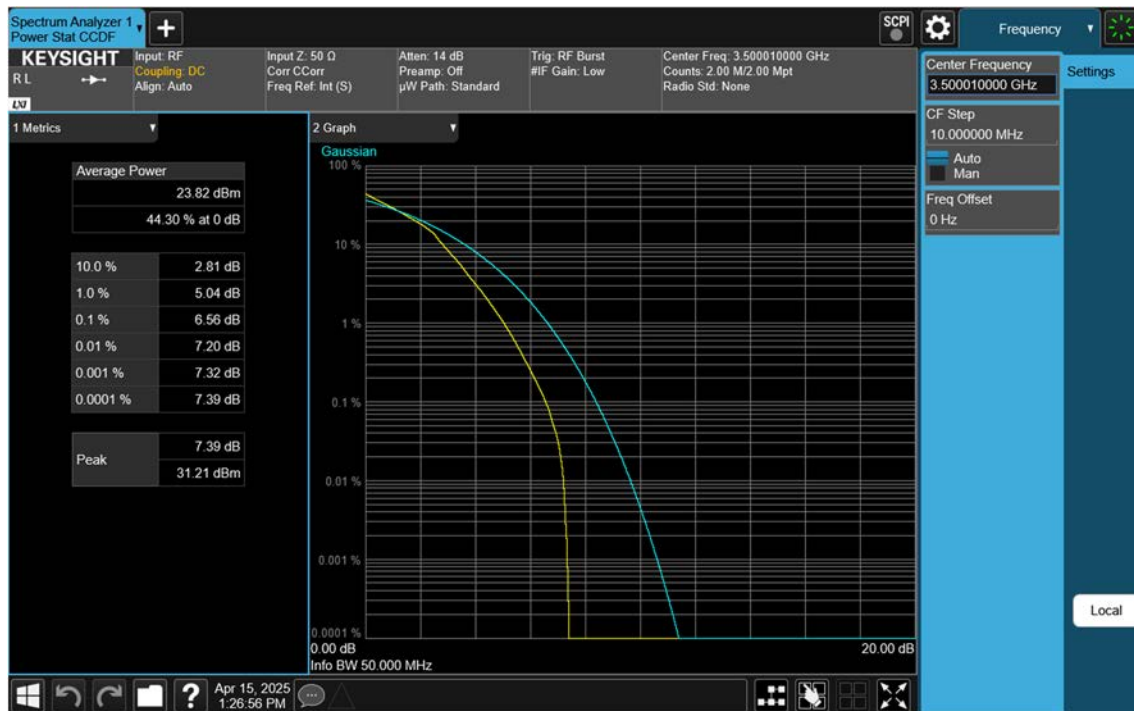
n77(3450~3550 MHz)_50 M_PAR_Mid_BPSK_FullRB



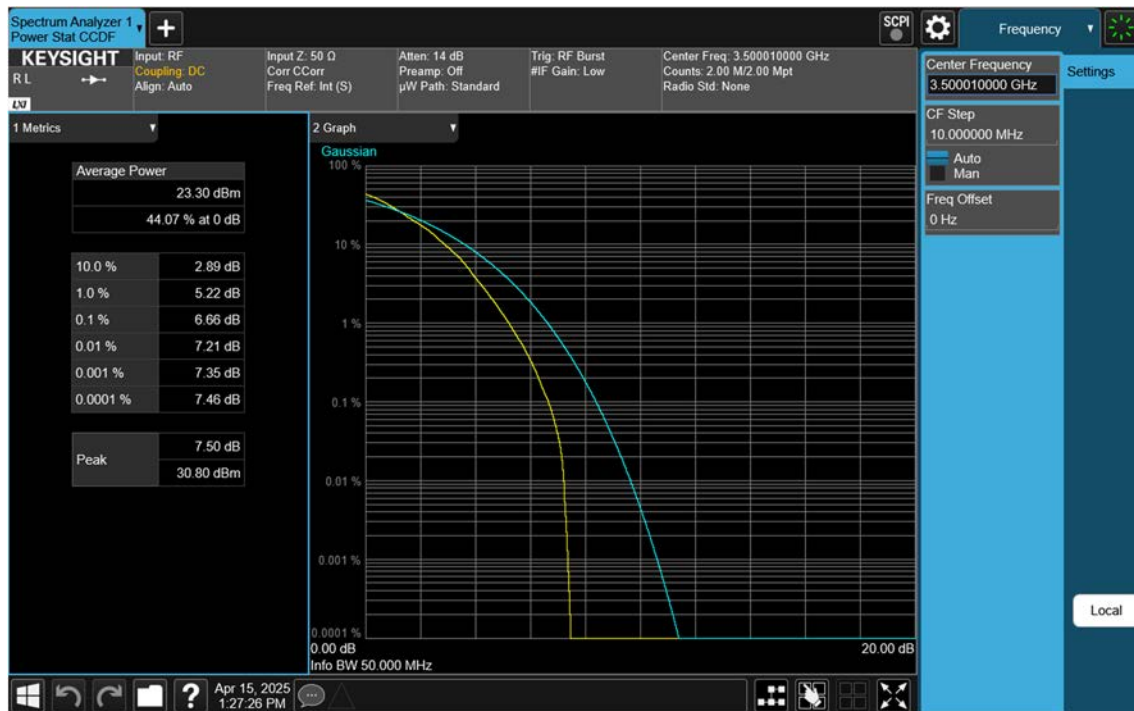
n77(3450~3550 MHz)_50 M_PAR_Mid_QPSK_FullRB



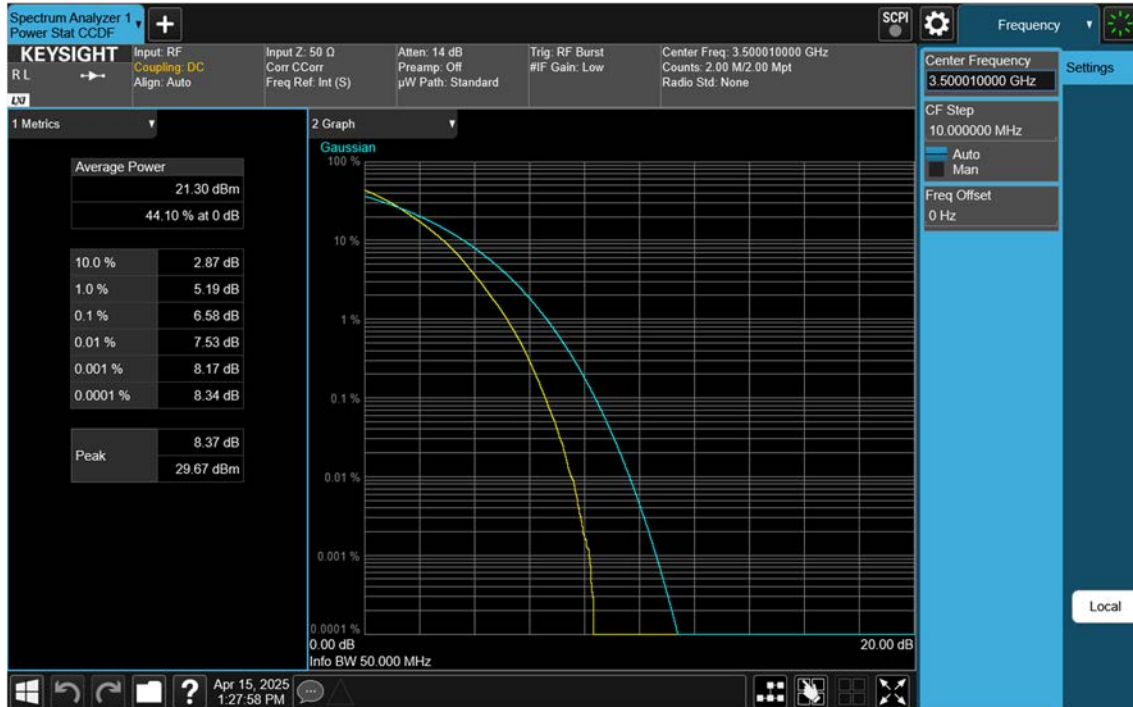
n77(3450~3550 MHz)_50 M_PAR_Mid_16QAM_FullRB



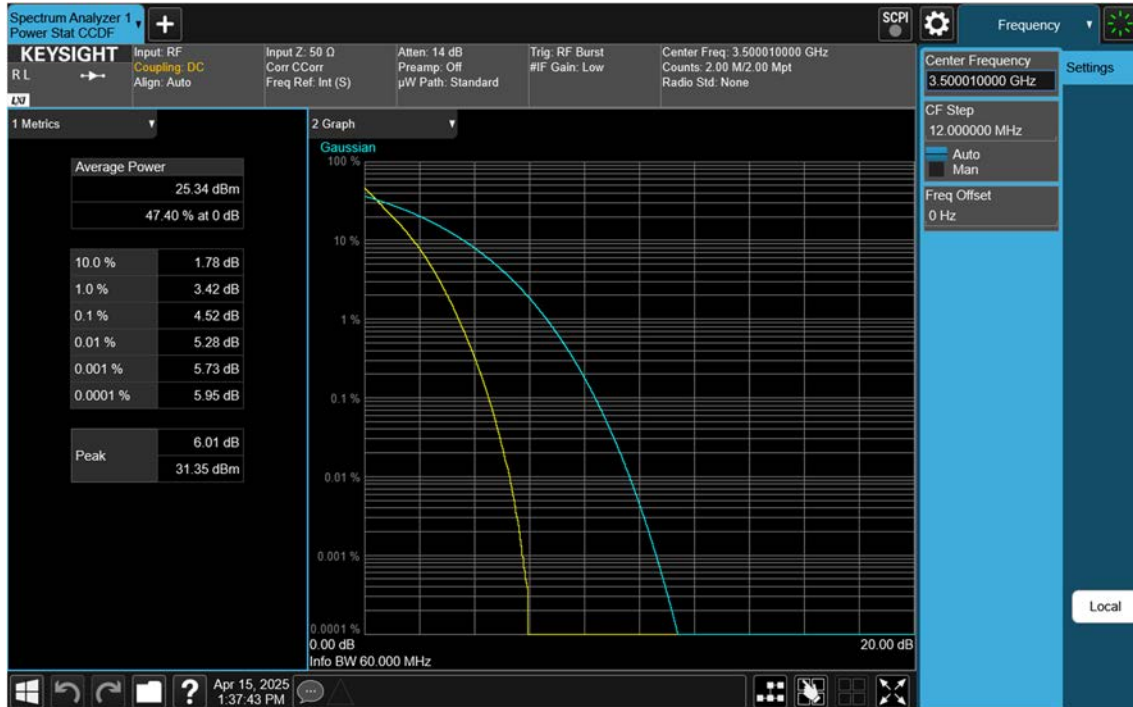
n77(3450~3550 MHz)_50 M_PAR_Mid_64QAM_FullRB



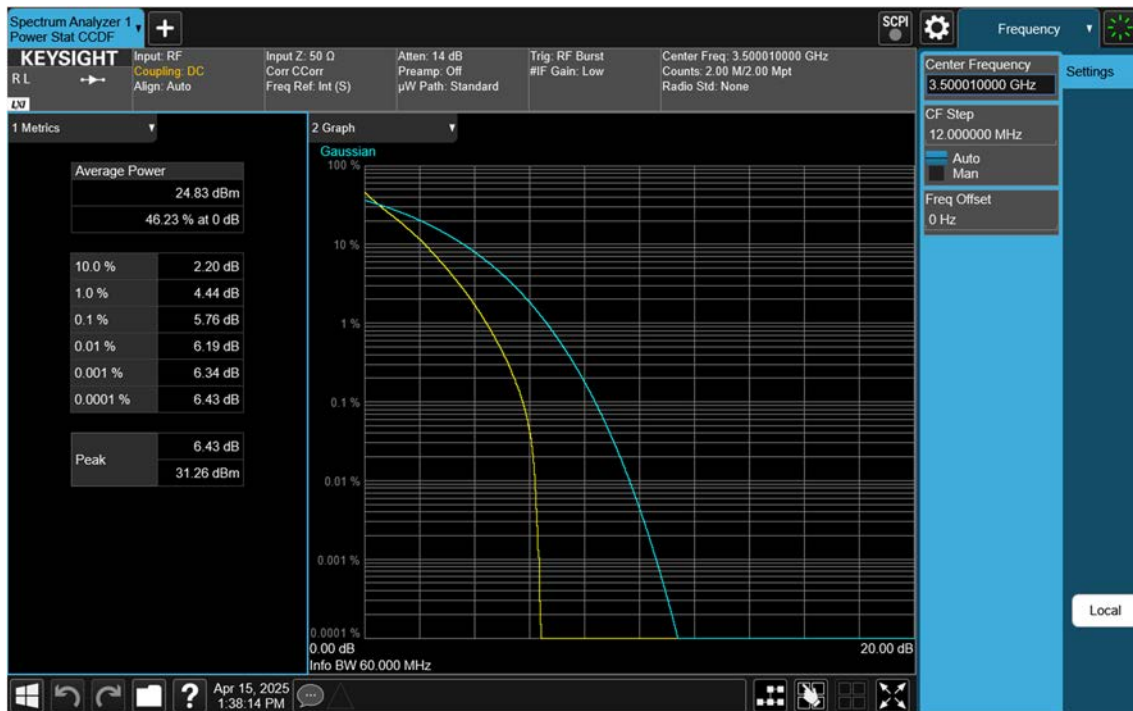
n77(3450~3550 MHz)_50 M_PAR_Mid_256QAM_FullRB



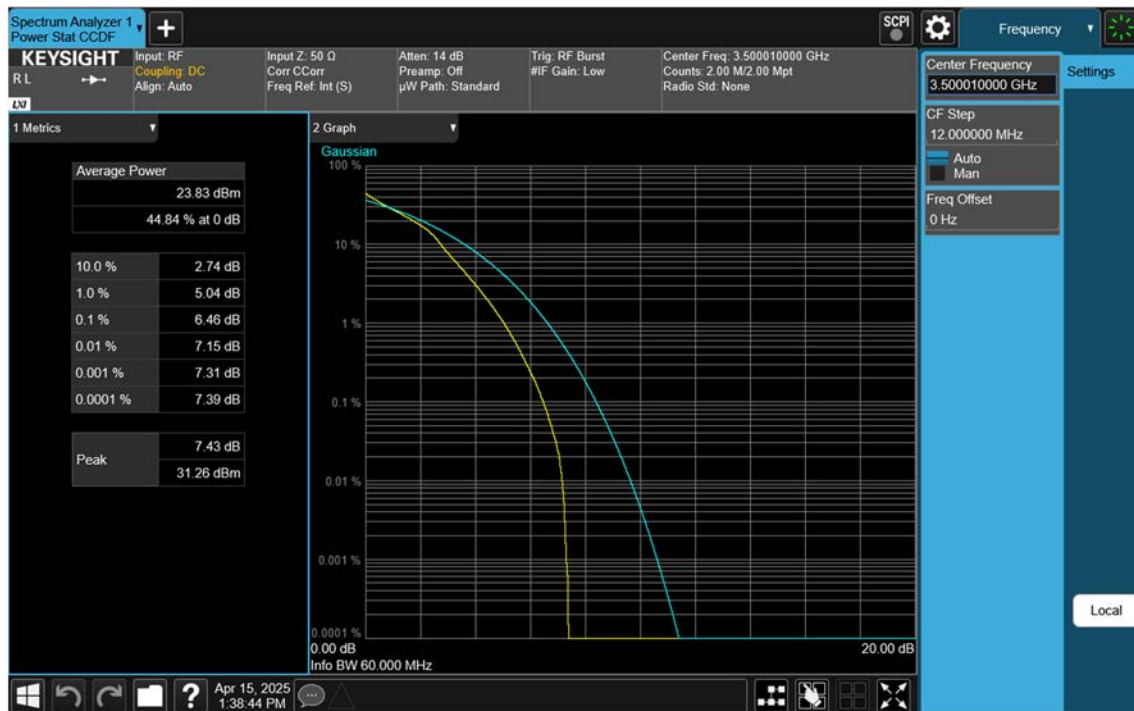
n77(3450~3550 MHz)_60 M_PAR_Mid_BPSK_FullRB



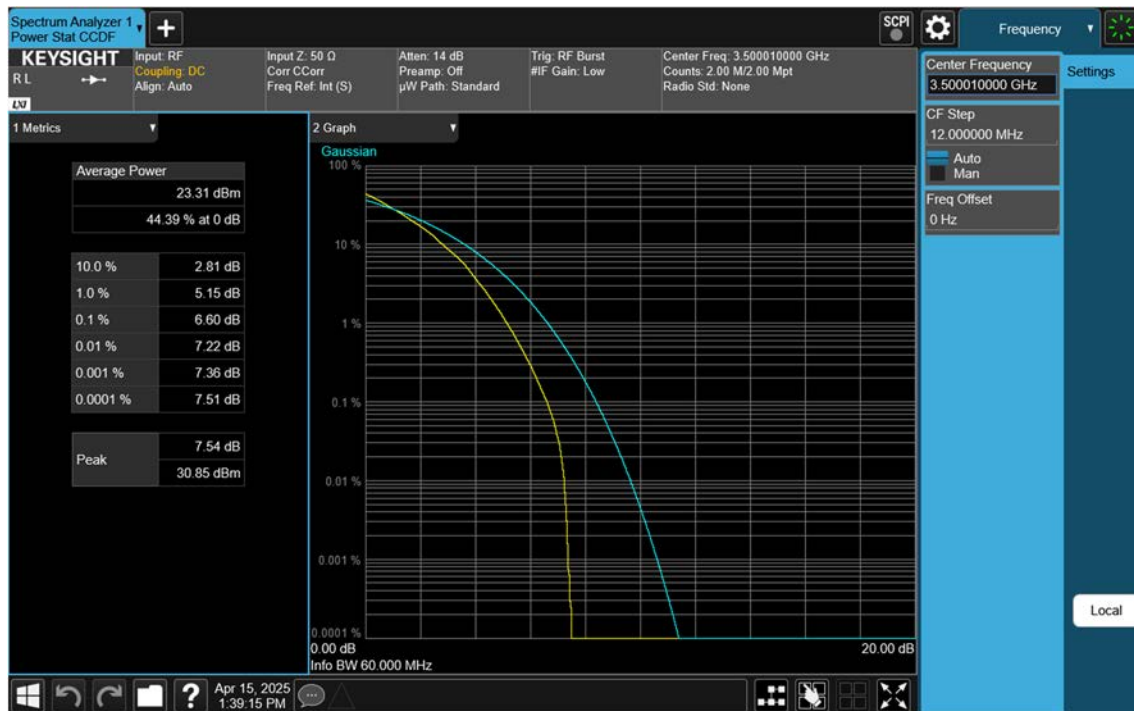
n77(3450~3550 MHz)_60 M_PAR_Mid_QPSK_FullRB



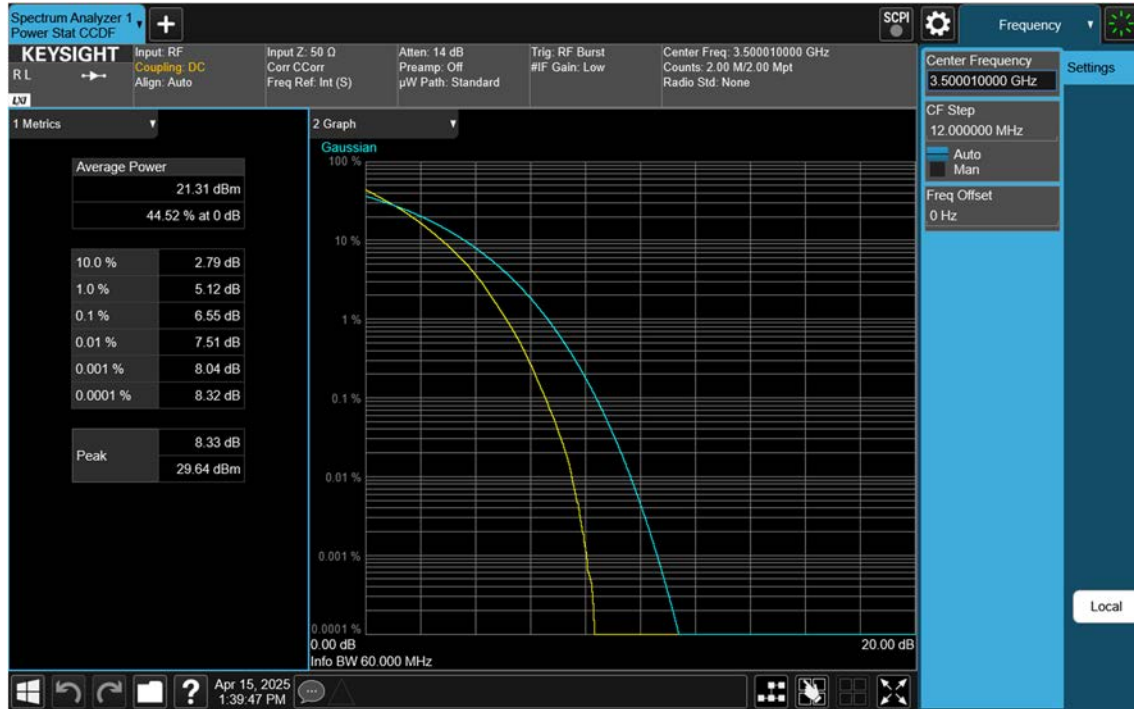
n77(3450~3550 MHz)_60 M_PAR_Mid_16QAM_FullRB



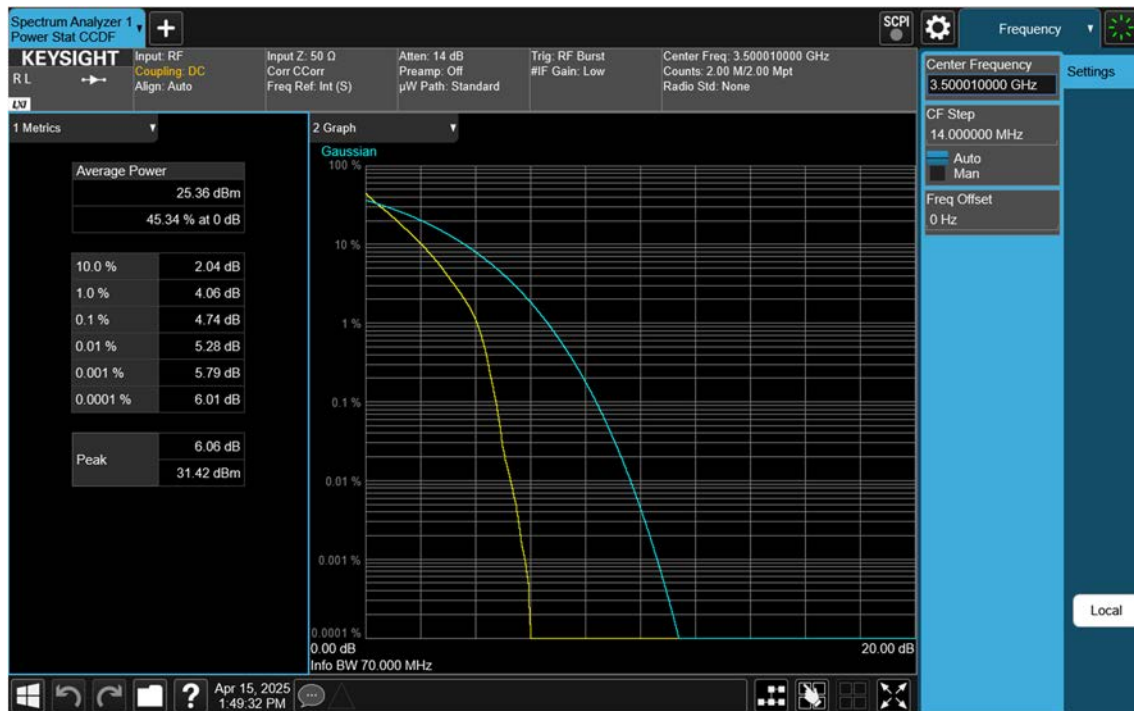
n77(3450~3550 MHz)_60 M_PAR_Mid_64QAM_FullRB



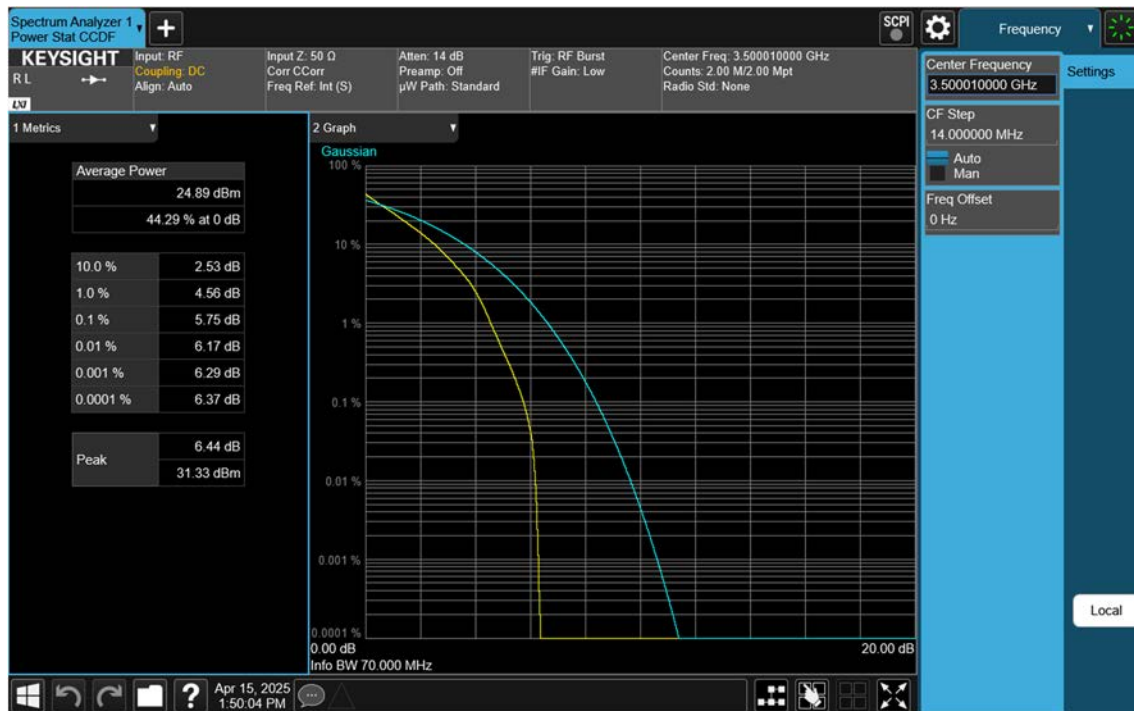
n77(3450~3550 MHz)_60 M_PAR_Mid_256QAM_FullRB



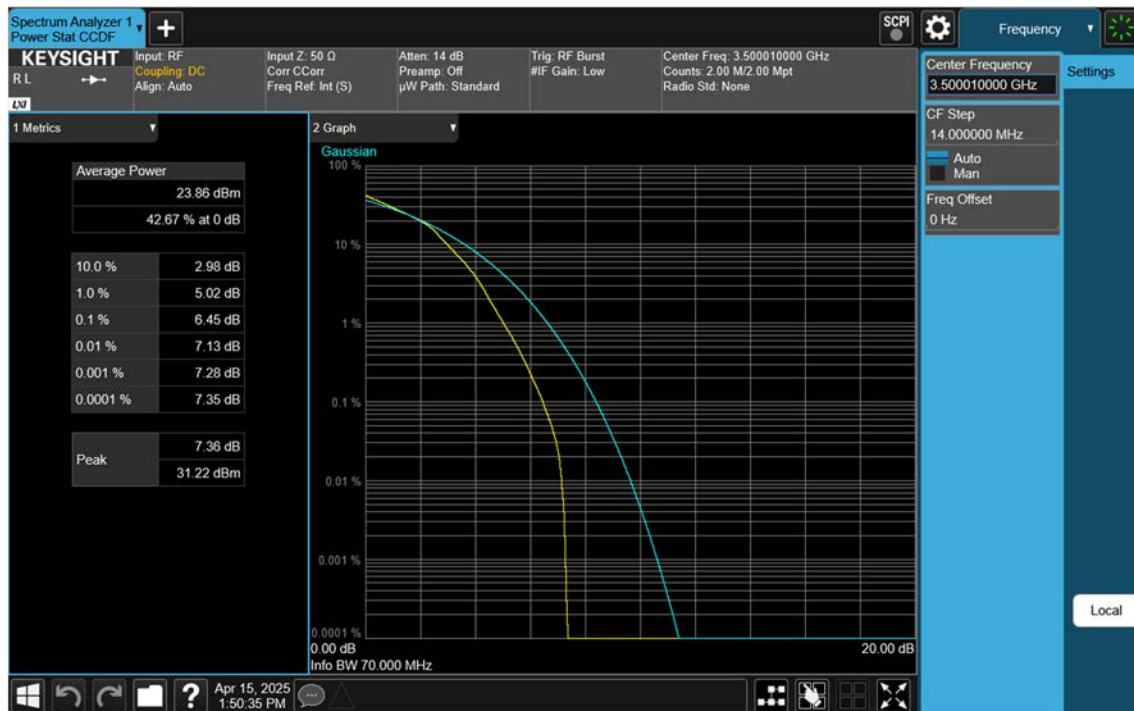
n77(3450~3550 MHz)_70 M_PAR_Mid_BPSK_FullRB



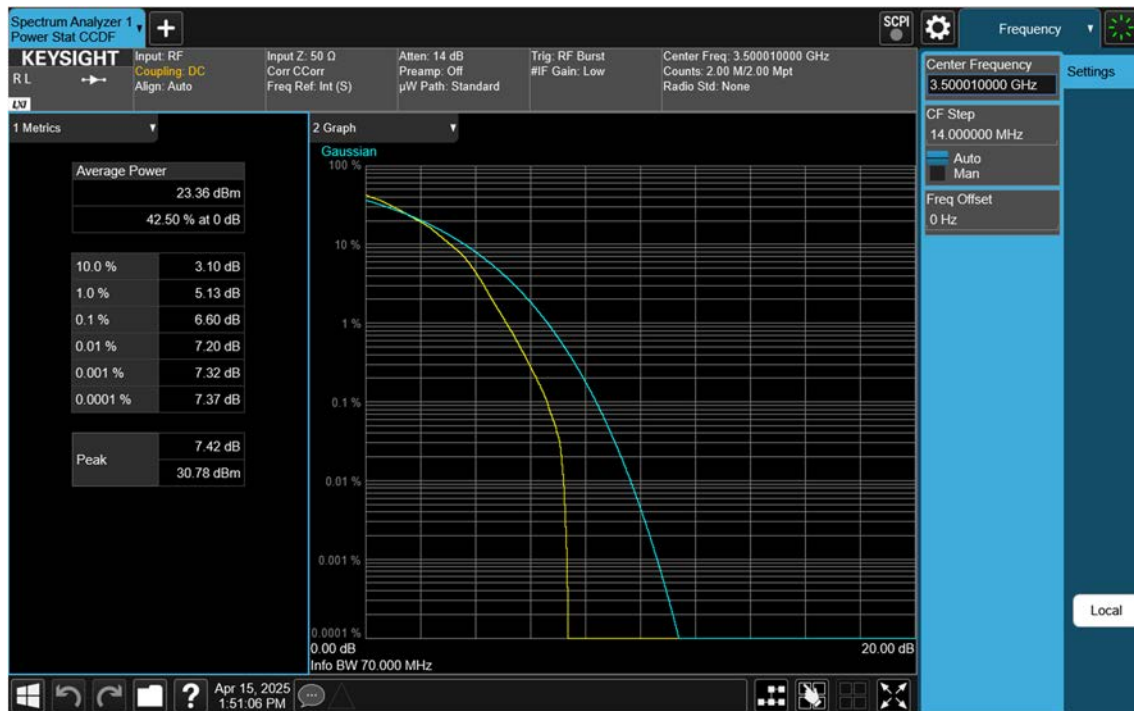
n77(3450~3550 MHz)_70 M_PAR_Mid_QPSK_FullRB



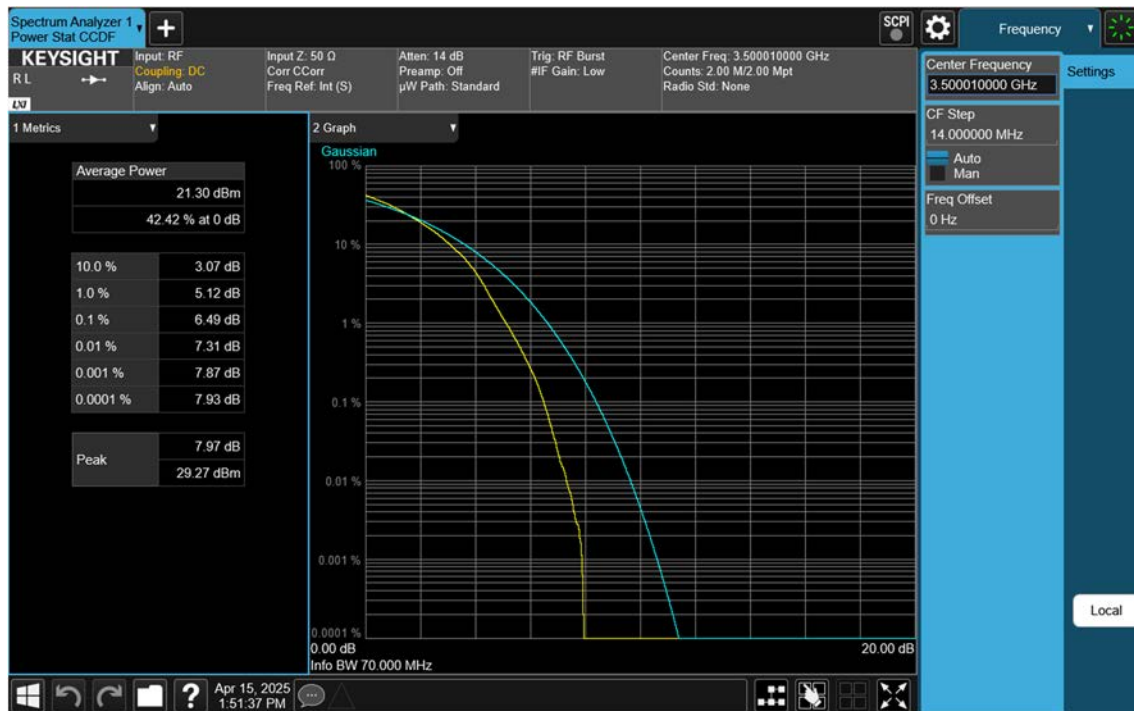
n77(3450~3550 MHz)_70 M_PAR_Mid_16QAM_FullRB



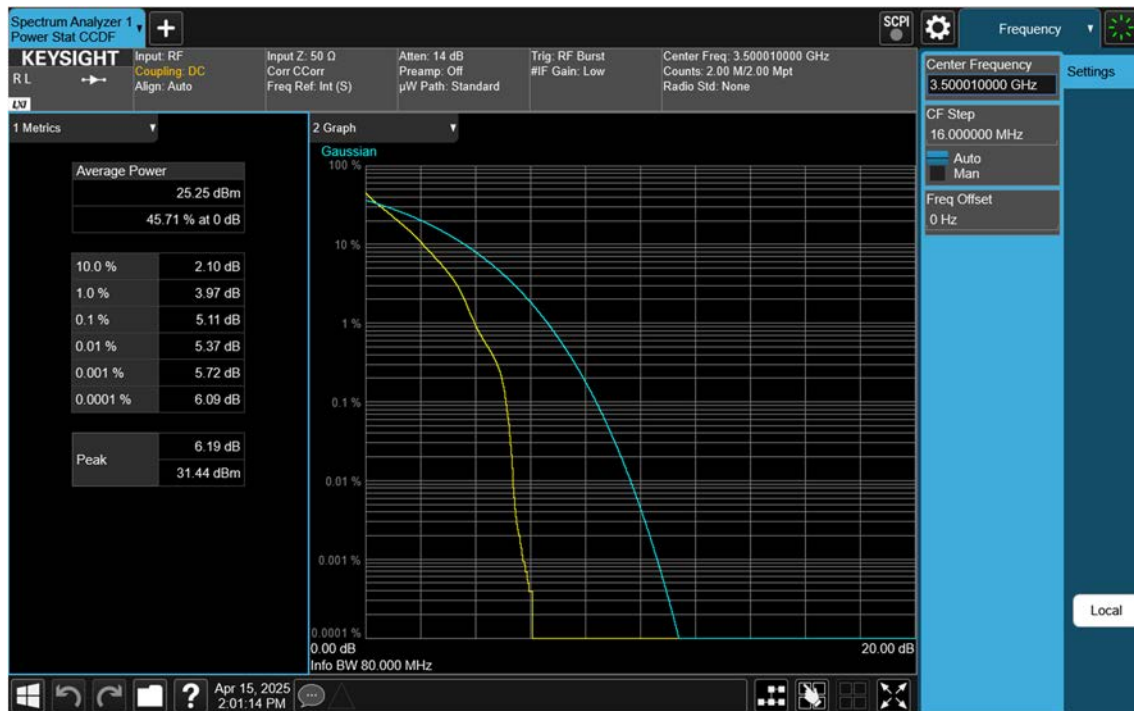
n77(3450~3550 MHz)_70 M_PAR_Mid_64QAM_FullRB



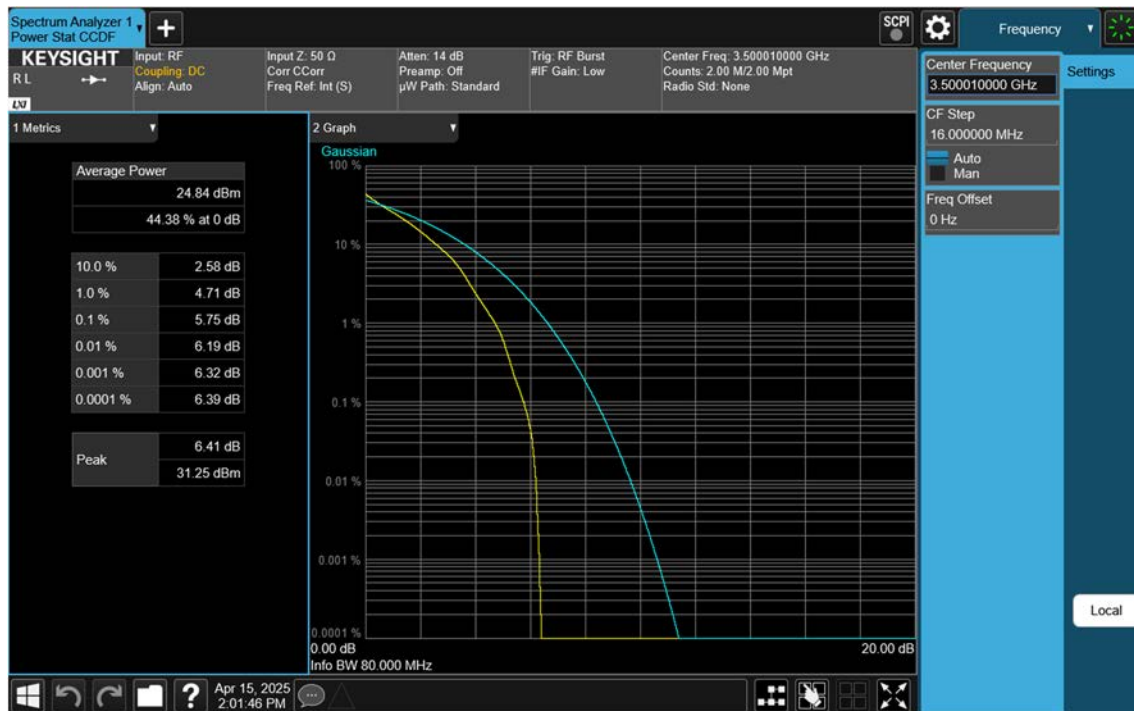
n77(3450~3550 MHz)_70 M_PAR_Mid_256QAM_FullRB



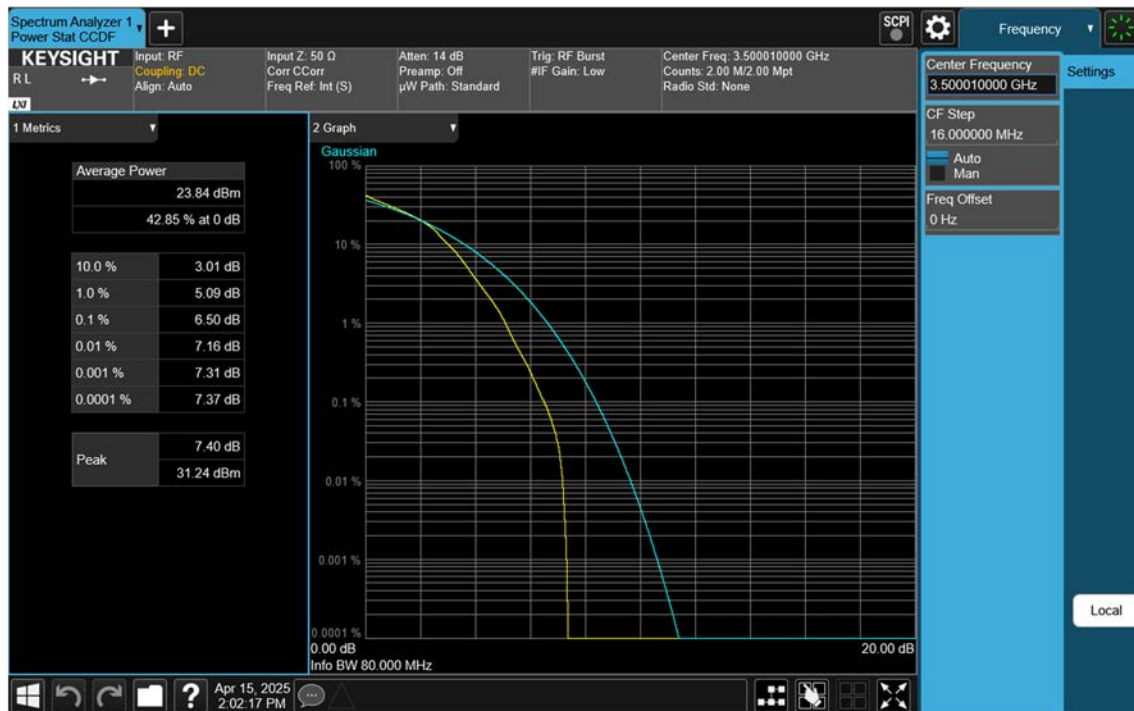
n77(3450~3550 MHz)_80 M_PAR_Mid_BPSK_FullRB



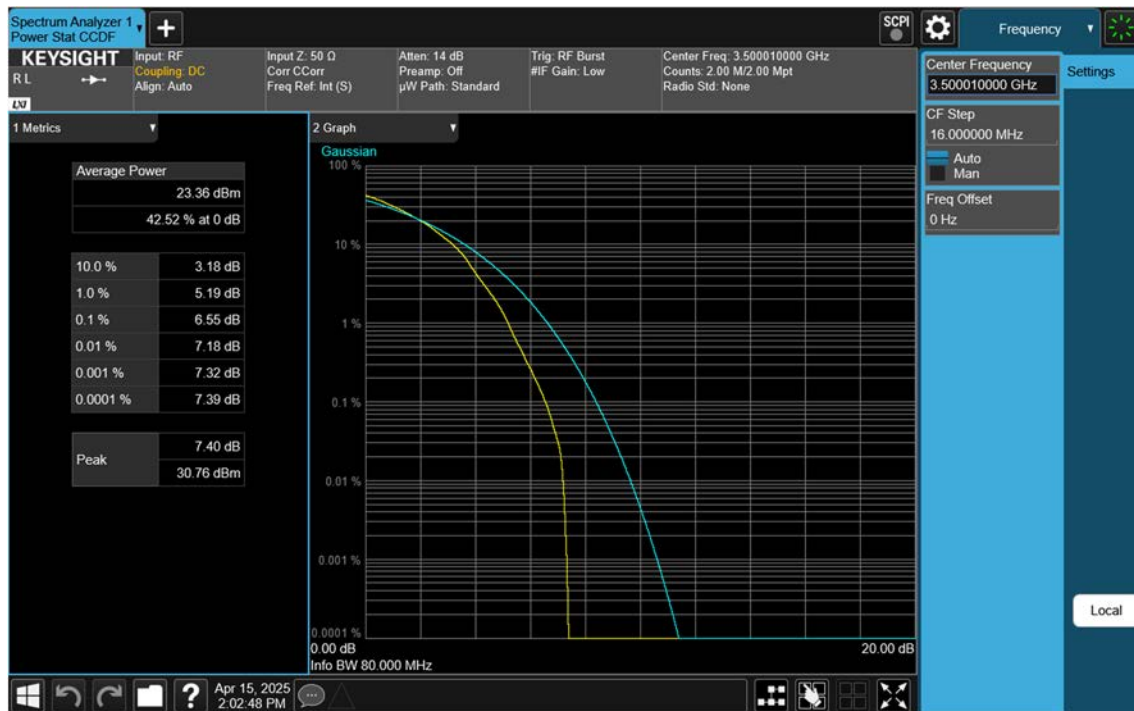
n77(3450~3550 MHz)_80 M_PAR_Mid_QPSK_FullRB



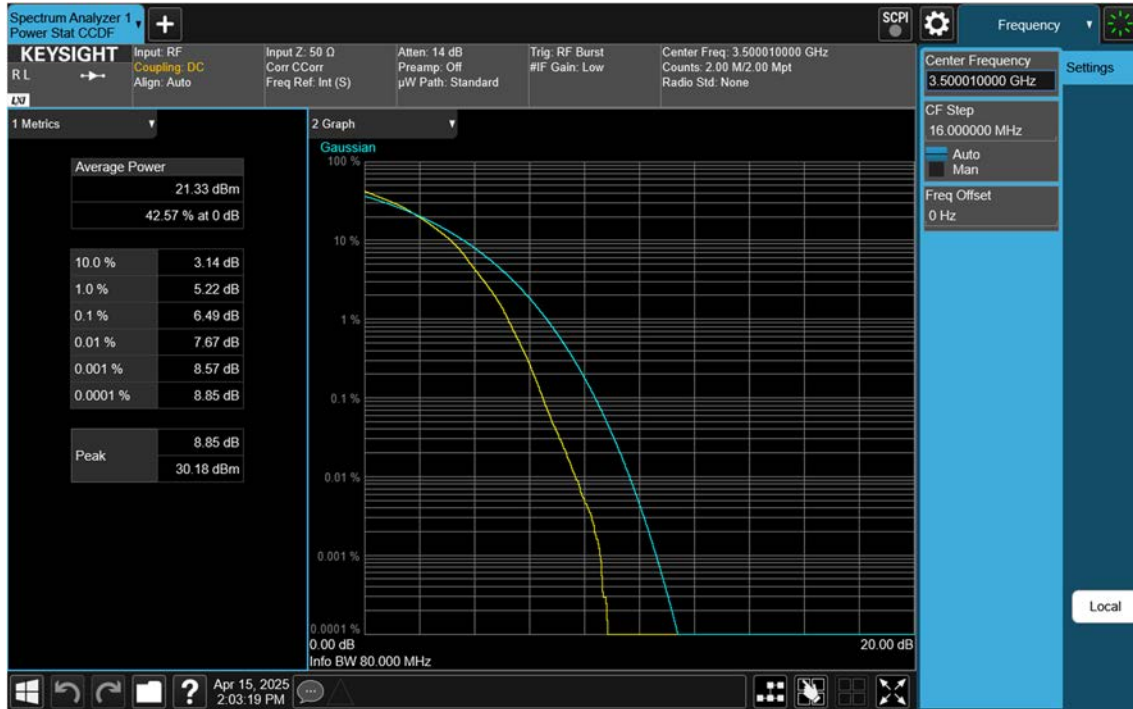
n77(3450~3550 MHz)_80 M_PAR_Mid_16QAM_FullRB



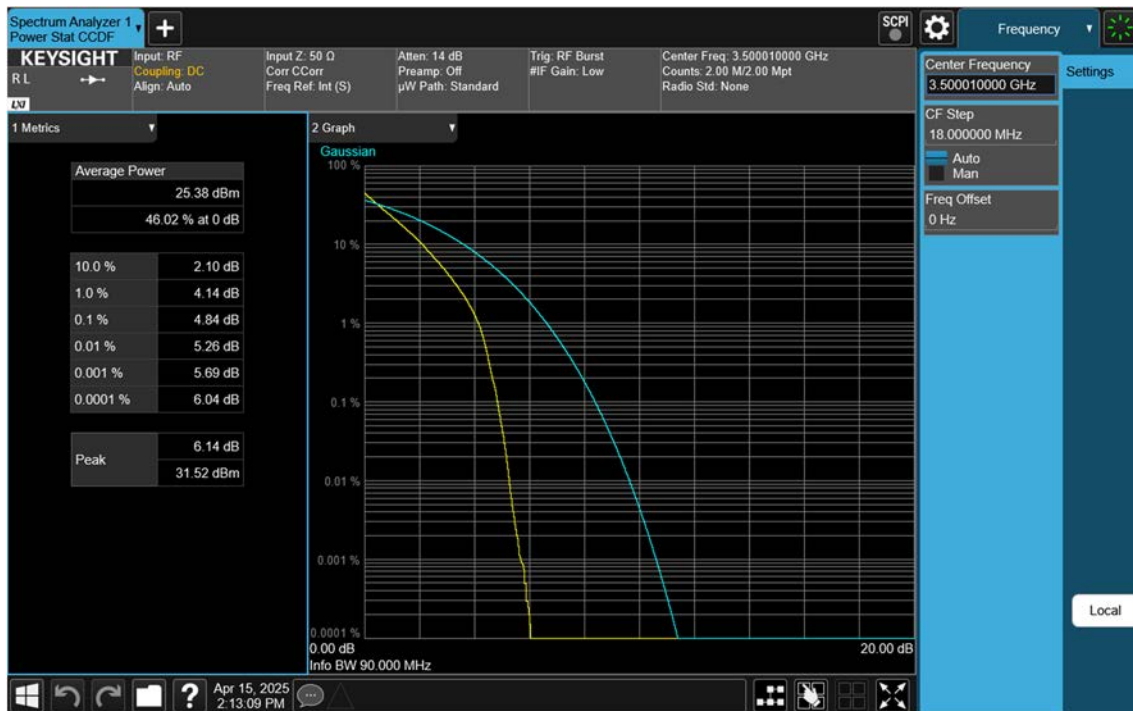
n77(3450~3550 MHz)_80 M_PAR_Mid_64QAM_FullRB



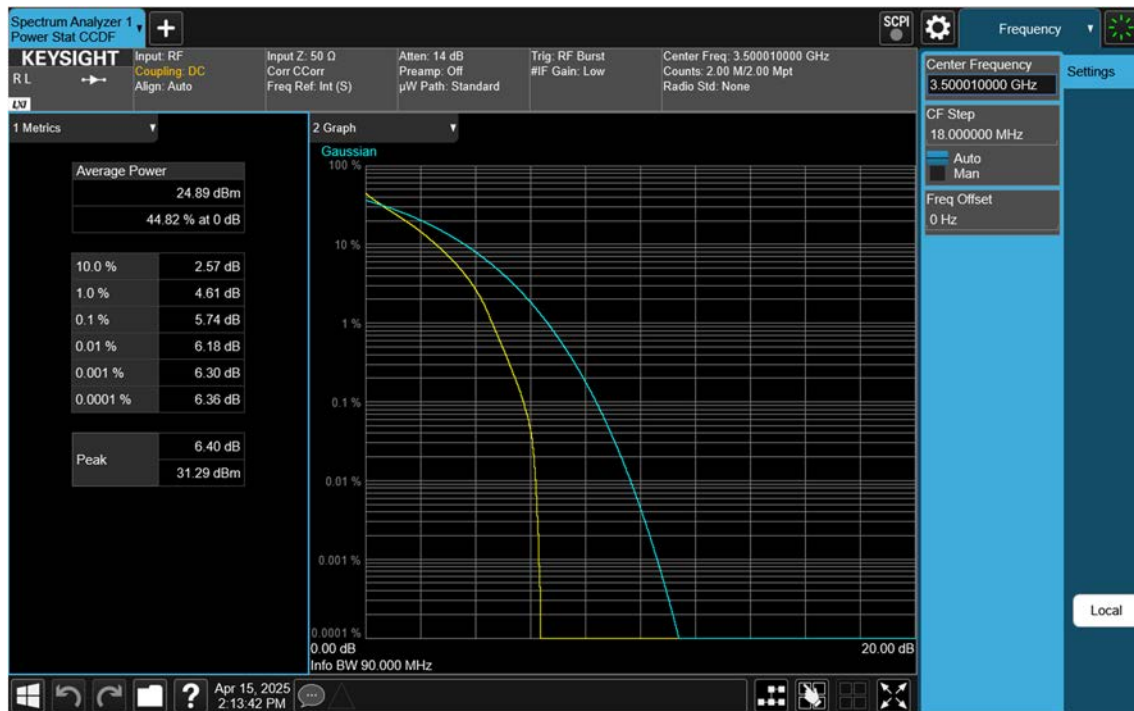
n77(3450~3550 MHz)_80 M_PAR_Mid_256QAM_FullRB



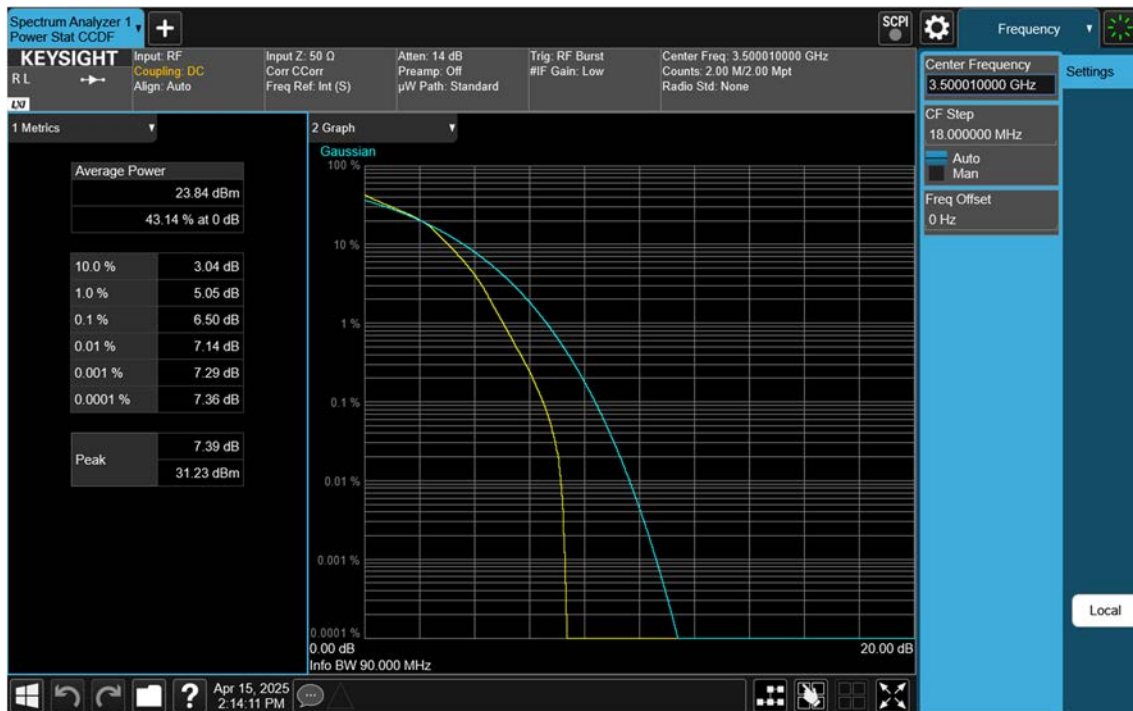
n77(3450~3550 MHz)_90 M_PAR_Mid_BPSK_FullRB



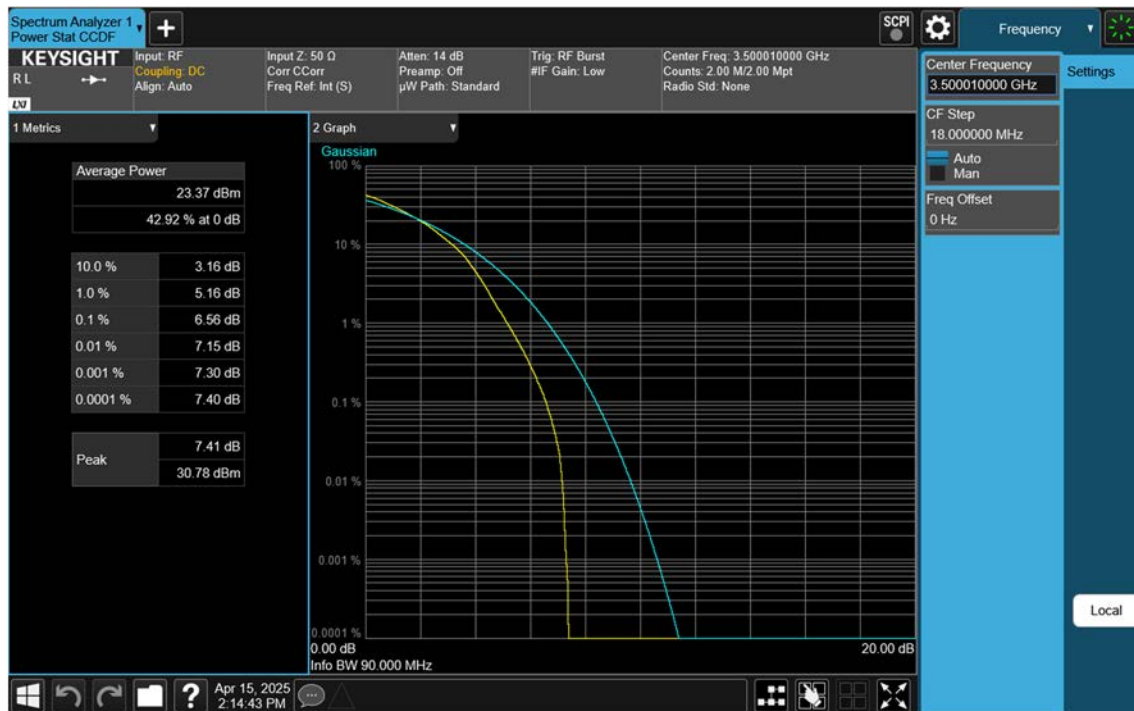
n77(3450~3550 MHz)_90 M_PAR_Mid_QPSK_FullRB



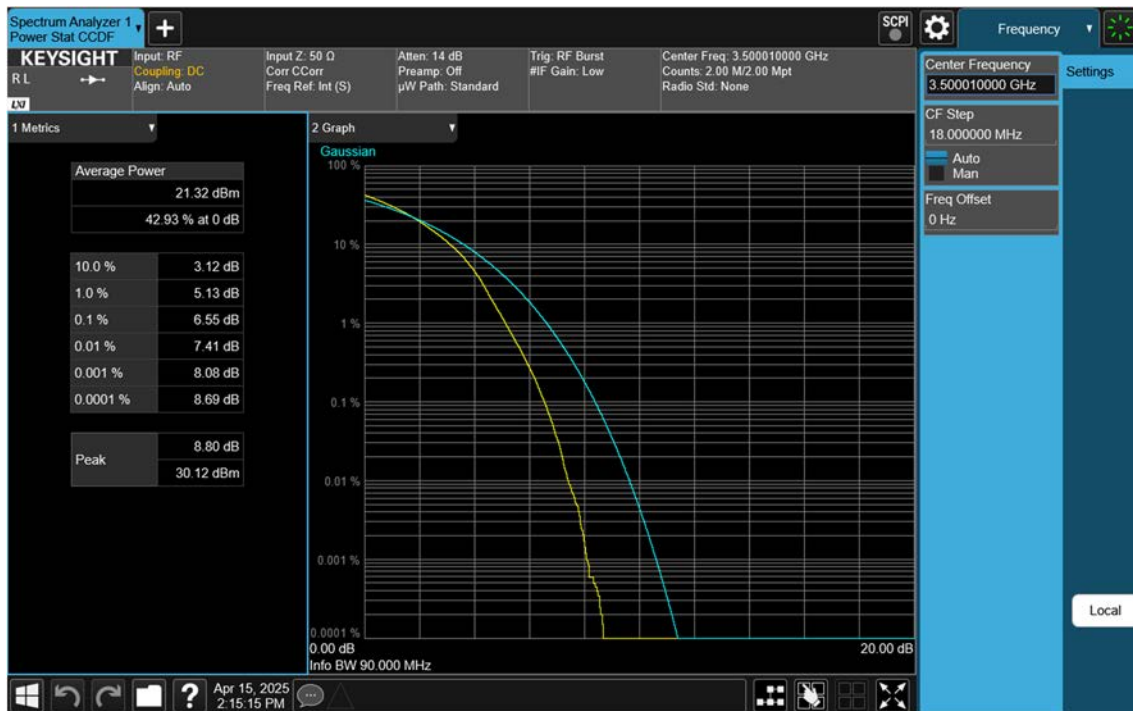
n77(3450~3550 MHz)_90 M_PAR_Mid_16QAM_FullRB



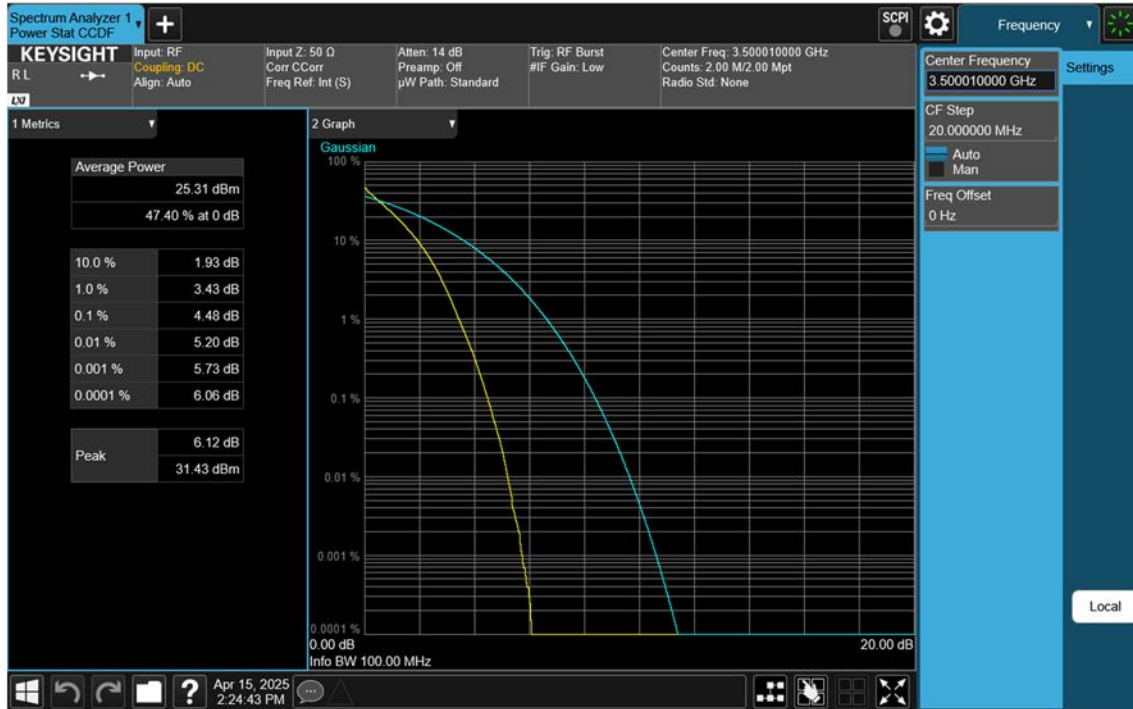
n77(3450~3550 MHz)_90 M_PAR_Mid_64QAM_FullRB



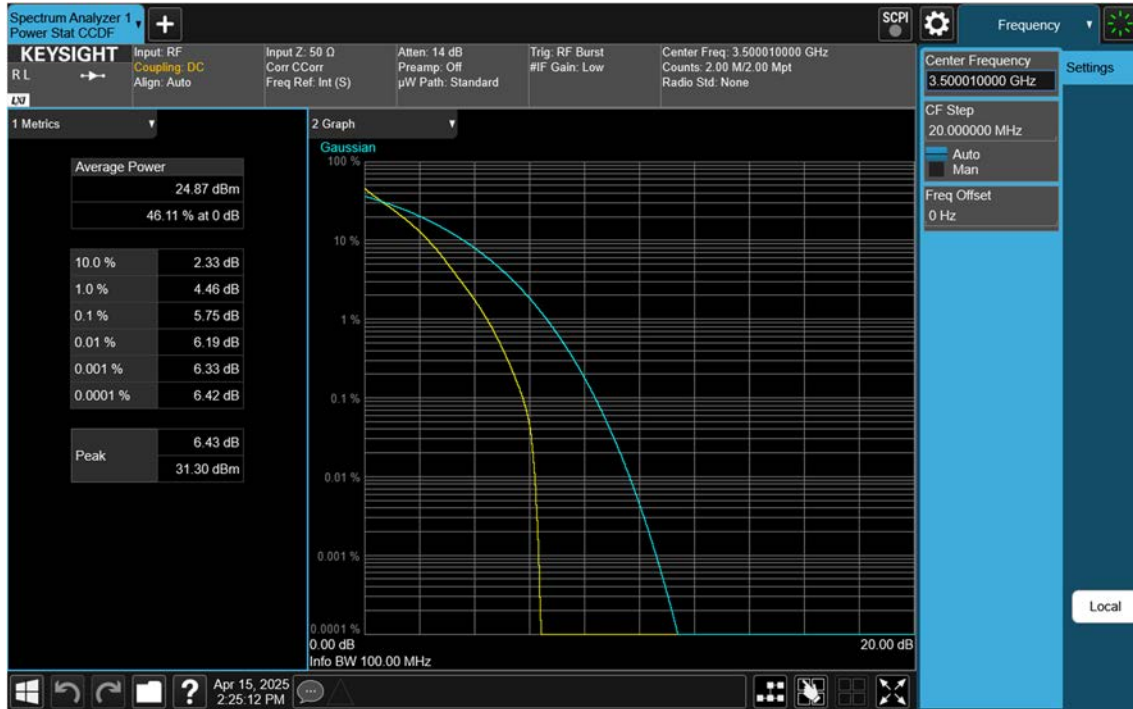
n77(3450~3550 MHz)_90 M_PAR_Mid_256QAM_FullRB



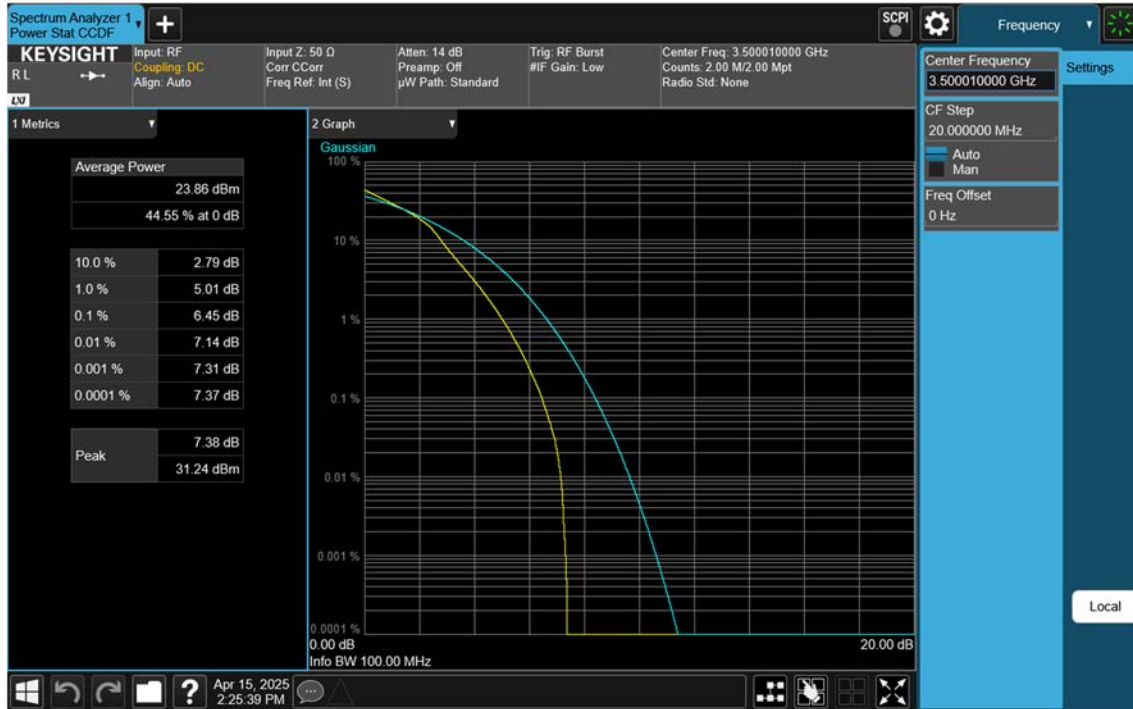
n77(3450~3550 MHz)_100 M_PAR_Mid_BPSK_FullRB



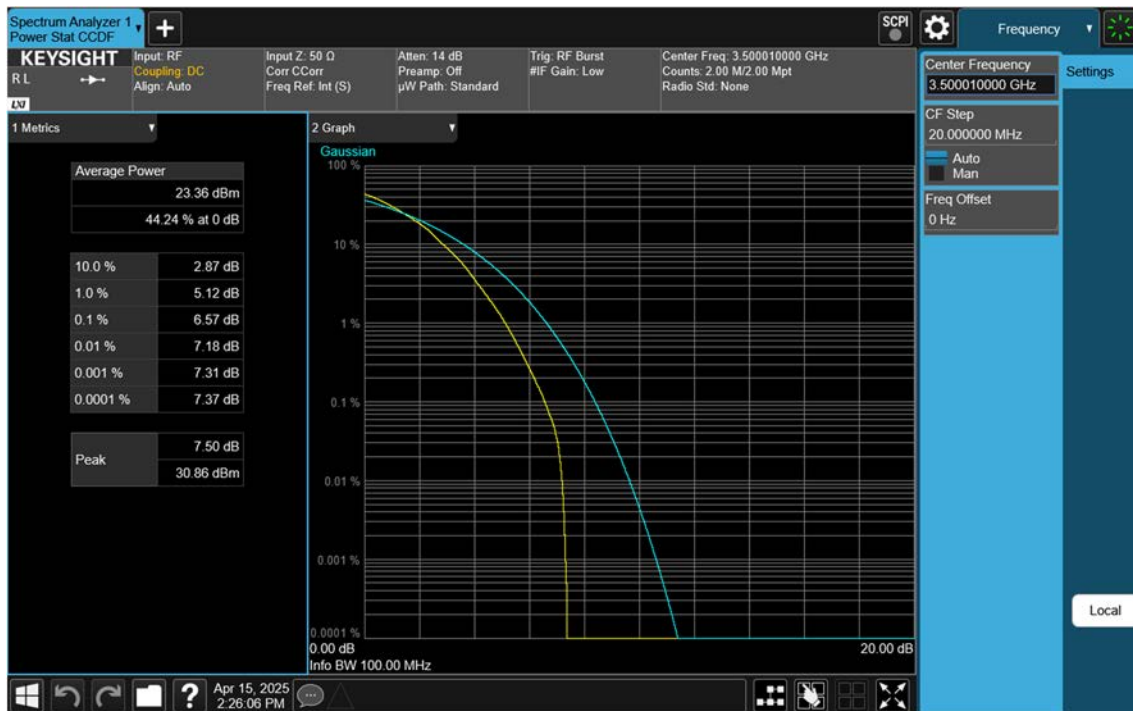
n77(3450~3550 MHz)_100 M_PAR_Mid_QPSK_FullRB



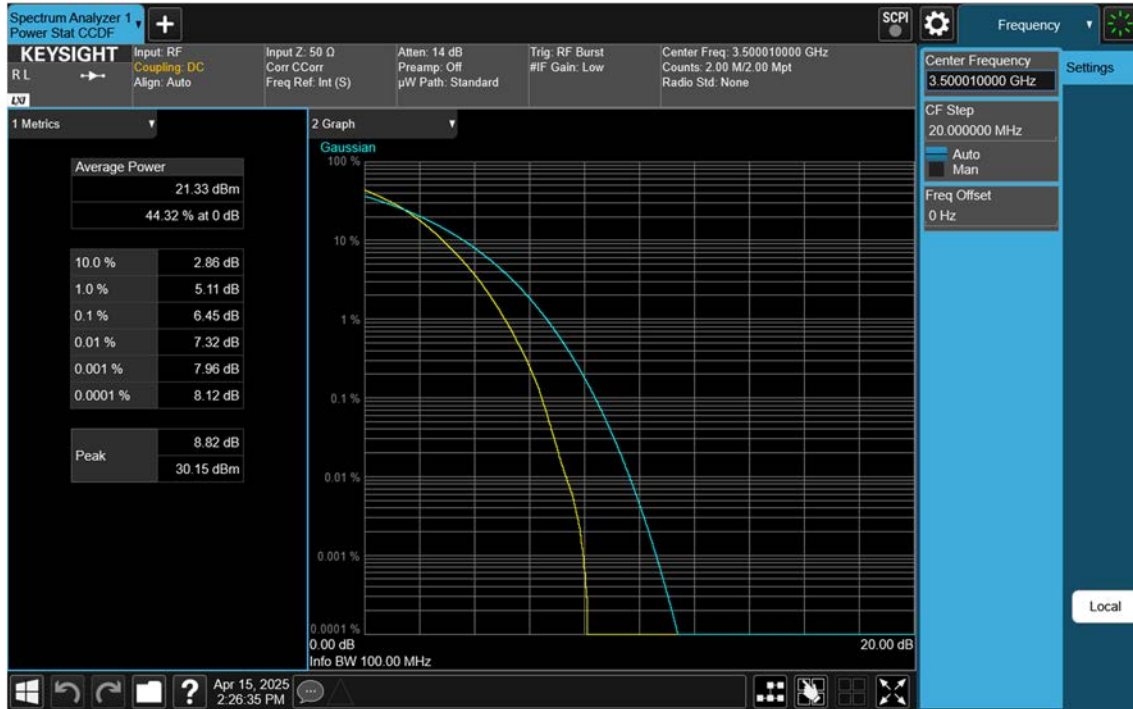
n77(3450~3550 MHz)_100 M_PAR_Mid_16QAM_FullRB



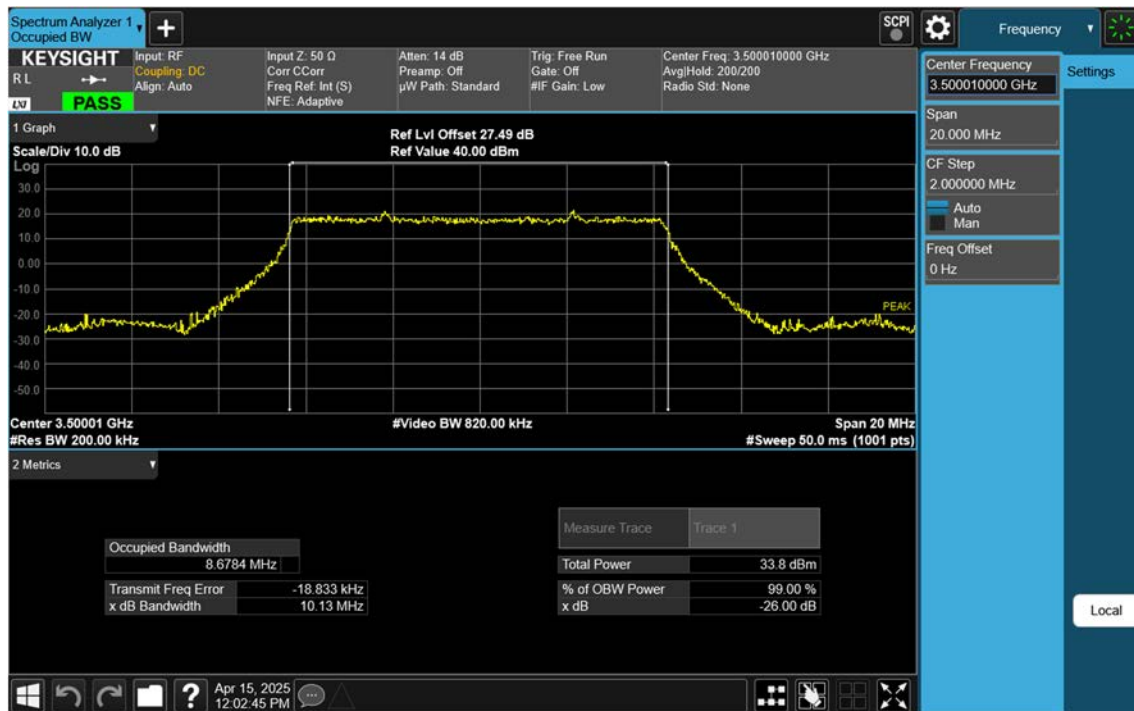
n77(3450~3550 MHz)_100 M_PAR_Mid_64QAM_FullRB



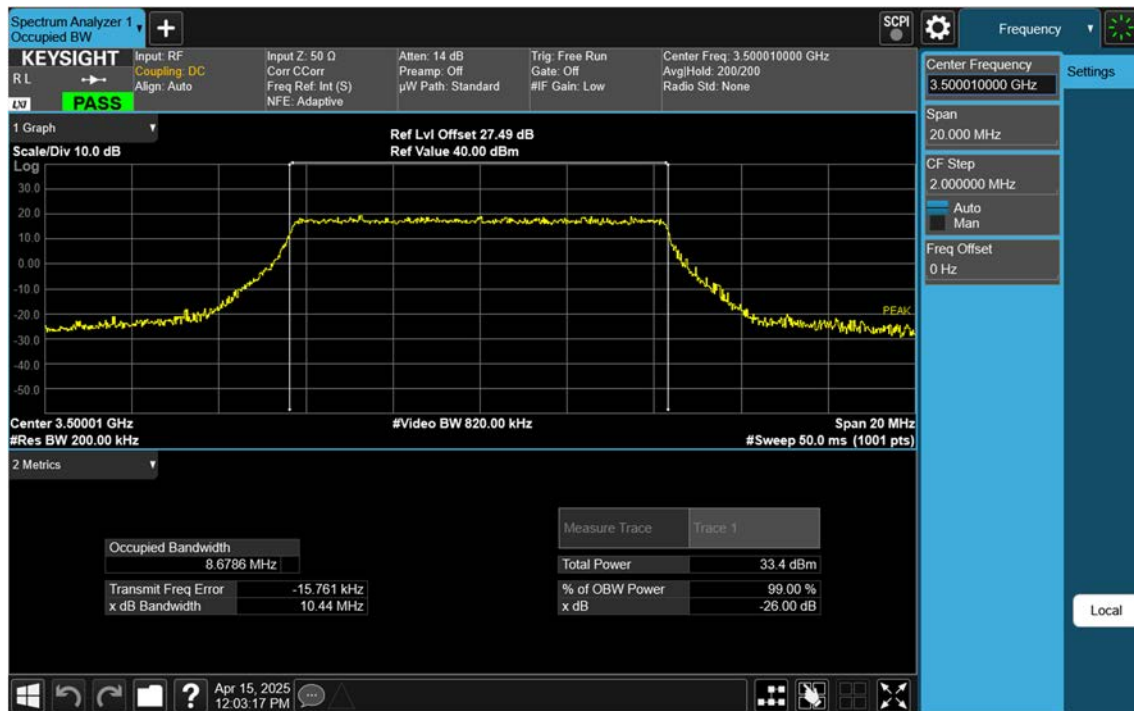
n77(3450~3550 MHz)_100 M_PAR_Mid_256QAM_FullRB



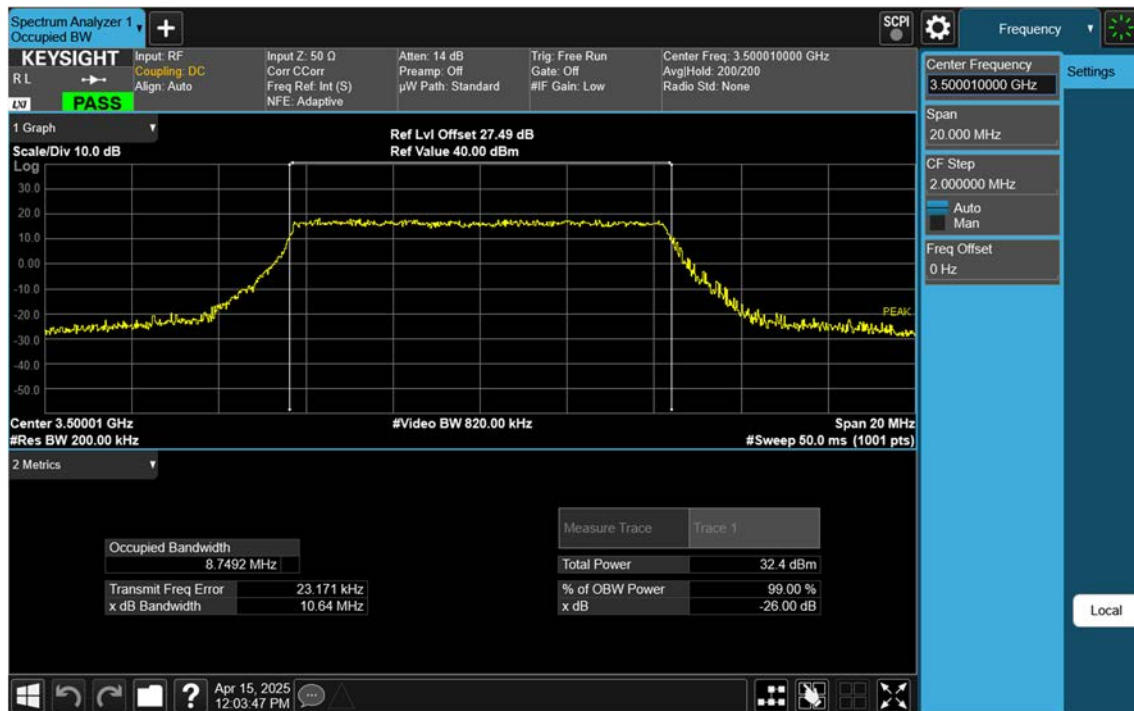
n77(3450~3550 MHz)_10 M_OBW_Mid_BPSK_FullRB



n77(3450~3550 MHz)_10 M_OBW_Mid_QPSK_FullRB



n77(3450~3550 MHz)_10 M_OBW_Mid_16QAM_FullRB



n77(3450~3550 MHz)_10 M_OBW_Mid_64QAM_FullRB

