

TEST REPORT

FCC Sub6 Test for SM-S731U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2507-FC041

DATE OF ISSUE
July 14, 2025

Tested by
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TEST REPORT

REPORT NO.

HCT-RF-2507-FC041

DATE OF ISSUE

July 14, 2025

Additional Model

SM-S731U1

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-S731U

Date of Test

May 13, 2025 ~ July 10, 2025

FCC ID

A3LSMS731U

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	July 14, 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

Model(s):	SM-S731U
Additional Model(s)	SM-S731U1
SCS(kHz):	30
Bandwidth(MHz):	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
Waveform:	CP-OFDM, DFT-S-OFDM
Modulation:	DFT-S-OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM
Tx Frequency: (3450 MHz - 3550 MHz)	3455.01 MHz – 3544.99 MHz (Sub6 n77(78)(10 MHz)) 3457.50 MHz – 3542.50 MHz (Sub6 n77(78)(15 MHz)) 3460.02 MHz – 3540.00 MHz (Sub6 n77(78)(20 MHz)) 3462.50 MHz – 3537.50 MHz (Sub6 n77(78)(25 MHz)) 3465.00 MHz – 3534.99 MHz (Sub6 n77(78)(30 MHz)) 3470.01 MHz – 3529.98 MHz (Sub6 n77(78)(40 MHz)) 3475.02 MHz – 3525.00 MHz (Sub6 n77(78)(50 MHz)) 3480.00 MHz – 3519.99 MHz (Sub6 n77(78)(60 MHz)) 3485.01 MHz – 3514.98 MHz (Sub6 n77(78)(70 MHz)) 3490.02 MHz – 3510.00 MHz (Sub6 n77(78)(80 MHz)) 3495.00 MHz – 3504.99 MHz (Sub6 n77(78)(90 MHz)) 3500.01 MHz (Sub6 n77(78)(100 MHz))
Tx Frequency: (3700 MHz - 3980 MHz)	3705.00 MHz – 3975.00 MHz (Sub6 n77(78)(10 MHz)) 3707.51 MHz – 3972.48 MHz (Sub6 n77(78)(15 MHz)) 3710.01 MHz – 3969.99 MHz (Sub6 n77(78)(20 MHz)) 3712.50 MHz – 3967.50 MHz (Sub6 n77(78)(25 MHz)) 3715.02 MHz – 3964.98 MHz (Sub6 n77(78)(30 MHz)) 3720.00 MHz – 3960.00 MHz (Sub6 n77(78)(40 MHz)) 3725.10 MHz – 3954.99 MHz (Sub6 n77(78)(50 MHz)) 3730.02 MHz – 3949.98 MHz (Sub6 n77(78)(60 MHz)) 3735.00 MHz – 3945.00 MHz (Sub6 n77(78)(70 MHz)) 3740.01 MHz – 3939.99 MHz (Sub6 n77(78)(80 MHz)) 3745.02 MHz – 3934.98 MHz (Sub6 n77(78)(90 MHz)) 3745.02 MHz – 3934.98 MHz (Sub6 n77(78)(90 MHz)) 3750.00 MHz – 3930.00 MHz (Sub6 n77(78)(100 MHz))
Serial number:	Radiated : R3CY40DEG0B Conducted : R3CY40XC6MR
Antenna Information	Please refer to the Antenna Specification document.

1.1. MAXIMUM OUTPUT POWER

1. 3450 MHz - 3550 MHz

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n77(78) (10)	3455.01 – 3544.99	8M69G7D	PI/2 BPSK	0.366	25.64
		8M72G7D	QPSK	0.365	25.62
		8M72W7D	16QAM	0.292	24.66
		8M70W7D	64QAM	0.195	22.91
		8M70W7D	256QAM	0.134	21.28
Sub6 n77(78) (15)	3457.50 – 3542.50	13M0G7D	PI/2 BPSK	0.362	25.59
		13M0G7D	QPSK	0.361	25.57
		13M0W7D	16QAM	0.284	24.54
		13M0W7D	64QAM	0.205	23.12
		13M1W7D	256QAM	0.131	21.16
Sub6 n77(78) (20)	3460.02 – 3540.00	18M0G7D	PI/2 BPSK	0.367	25.65
		18M0G7D	QPSK	0.361	25.58
		18M0W7D	16QAM	0.296	24.71
		18M0W7D	64QAM	0.201	23.04
		18M0W7D	256QAM	0.131	21.18
Sub6 n77(78) (25)	3462.50 – 3537.50	23M0G7D	PI/2 BPSK	0.356	25.51
		23M0G7D	QPSK	0.352	25.47
		23M0W7D	16QAM	0.291	24.64
		23M0W7D	64QAM	0.201	23.04
		23M0W7D	256QAM	0.126	20.99
Sub6 n77(78) (30)	3465.00 – 3534.99	27M0G7D	PI/2 BPSK	0.356	25.51
		27M0G7D	QPSK	0.355	25.50
		26M9W7D	16QAM	0.277	24.42
		27M0W7D	64QAM	0.199	22.99
		27M0W7D	256QAM	0.126	21.02
Sub6 n77(78) (40)	3470.01 – 3529.98	35M9G7D	PI/2 BPSK	0.357	25.53
		36M0G7D	QPSK	0.356	25.52
		35M9W7D	16QAM	0.275	24.40
		36M0W7D	64QAM	0.199	22.99
		35M9W7D	256QAM	0.128	21.06
Sub6 n77(78) (50)	3475.02 – 3525.00	46M0G7D	PI/2 BPSK	0.372	25.70
		46M0G7D	QPSK	0.370	25.68
		46M0W7D	16QAM	0.288	24.59
		46M0W7D	64QAM	0.208	23.18
		45M8W7D	256QAM	0.133	21.24
Sub6 n77(78) (60)	3480.00 – 3519.99	58M2G7D	PI/2 BPSK	0.386	25.87
		58M1G7D	QPSK	0.384	25.84
		58M5W7D	16QAM	0.305	24.85
		58M2W7D	64QAM	0.215	23.32
		58M3W7D	256QAM	0.139	21.42
Sub6 n77(78) (70)	3485.01 – 3514.98	64M9G7D	PI/2 BPSK	0.394	25.95
		64M8G7D	QPSK	0.393	25.94
		64M8W7D	16QAM	0.303	24.81
		64M8W7D	64QAM	0.219	23.41
		65M0W7D	256QAM	0.138	21.39
Sub6 n77(78) (80)	3490.02 – 3510.00	77M6G7D	PI/2 BPSK	0.391	25.92
		77M6G7D	QPSK	0.389	25.90
		77M6W7D	16QAM	0.303	24.81
		77M8W7D	64QAM	0.220	23.43
		77M8W7D	256QAM	0.142	21.51
Sub6 n77(78) (90)	3495.00 – 3504.99	87M4G7D	PI/2 BPSK	0.387	25.88
		87M2G7D	QPSK	0.385	25.85
		87M5W7D	16QAM	0.308	24.89
		87M5W7D	64QAM	0.214	23.31
		87M4W7D	256QAM	0.140	21.45
Sub6 n77(78) (100)	3500.01	96M9G7D	PI/2 BPSK	0.380	25.80
		96M9G7D	QPSK	0.378	25.78
		97M0W7D	16QAM	0.296	24.72
		96M8W7D	64QAM	0.219	23.40
		97M0W7D	256QAM	0.138	21.39

2. 3700 MHz - 3980 MHz

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n77(78) (10)	3705.00 – 3975.00	8M70G7D	PI/2 BPSK	0.463	26.66
		8M69G7D	QPSK	0.458	26.61
		8M75W7D	16QAM	0.365	25.62
		8M70W7D	64QAM	0.265	24.24
		8M66W7D	256QAM	0.166	22.19
Sub6 n77(78) (15)	3707.51 – 3972.48	13M0G7D	PI/2 BPSK	0.450	26.53
		13M0G7D	QPSK	0.446	26.49
		13M0W7D	16QAM	0.355	25.50
		13M0W7D	64QAM	0.241	23.82
		12M9W7D	256QAM	0.162	22.10
Sub6 n77(78) (20)	3710.01 – 3969.99	18M0G7D	PI/2 BPSK	0.466	26.68
		18M0G7D	QPSK	0.465	26.67
		18M0W7D	16QAM	0.363	25.60
		18M0W7D	64QAM	0.255	24.06
		17M9W7D	256QAM	0.163	22.13
Sub6 n77(78) (25)	3712.50 – 3967.50	23M0G7D	PI/2 BPSK	0.466	26.68
		23M1G7D	QPSK	0.462	26.65
		23M0W7D	16QAM	0.372	25.70
		23M0W7D	64QAM	0.262	24.18
		23M0W7D	256QAM	0.167	22.22
Sub6 n77(78) (30)	3715.02 – 3964.98	27M0G7D	PI/2 BPSK	0.462	26.65
		27M0G7D	QPSK	0.458	26.61
		27M0W7D	16QAM	0.361	25.58
		27M0W7D	64QAM	0.255	24.07
		27M0W7D	256QAM	0.163	22.13
Sub6 n77(78) (40)	3720.00 – 3960.00	35M9G7D	PI/2 BPSK	0.471	26.73
		36M0G7D	QPSK	0.467	26.69
		36M0W7D	16QAM	0.368	25.66
		36M1W7D	64QAM	0.262	24.19
		35M9W7D	256QAM	0.171	22.32
Sub6 n77(78) (50)	3725.10 – 3954.99	45M9G7D	PI/2 BPSK	0.469	26.71
		46M1G7D	QPSK	0.463	26.66
		46M1W7D	16QAM	0.373	25.72
		46M3W7D	64QAM	0.262	24.18
		45M9W7D	256QAM	0.169	22.29
Sub6 n77(78) (60)	3730.02 – 3949.98	58M2G7D	PI/2 BPSK	0.486	26.87
		58M3G7D	QPSK	0.482	26.83
		58M5W7D	16QAM	0.381	25.81
		58M3W7D	64QAM	0.277	24.42
		58M1W7D	256QAM	0.176	22.45
Sub6 n77(78) (70)	3735.00 – 3945.00	64M8G7D	PI/2 BPSK	0.499	26.98
		65M0G7D	QPSK	0.498	26.97
		64M7W7D	16QAM	0.388	25.89
		64M9W7D	64QAM	0.281	24.49
		64M5W7D	256QAM	0.178	22.51
Sub6 n77(78) (80)	3740.01 – 3939.99	77M6G7D	PI/2 BPSK	0.471	26.73
		77M8G7D	QPSK	0.470	26.72
		78M0W7D	16QAM	0.368	25.66
		77M7W7D	64QAM	0.259	24.14
		77M7W7D	256QAM	0.167	22.23
Sub6 n77(78) (90)	3745.02 – 3934.98	87M1G7D	PI/2 BPSK	0.465	26.67
		87M4G7D	QPSK	0.453	26.56
		87M5W7D	16QAM	0.352	25.46
		87M3W7D	64QAM	0.257	24.10
		87M2W7D	256QAM	0.164	22.14
Sub6 n77(78) (100)	3750.00 – 3930.00	96M7G7D	PI/2 BPSK	0.466	26.68
		96M9G7D	QPSK	0.460	26.63
		96M9W7D	16QAM	0.369	25.67
		97M1W7D	64QAM	0.261	24.17
		97M0W7D	256QAM	0.166	22.21

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

Please refer to the [2G3G] Test Report.

2.2. MEASURING INSTRUMENT CALIBRATION

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

2.3. TEST FACILITY

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

3. DESCRIPTION OF TESTS

3.1 TEST PROCEDURE

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

3.2 RADIATED POWER

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

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

Test Settings

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

Test Note

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

The power is calculated by the following formula;

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

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

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

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

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

3.3 RADIATED SPURIOUS EMISSIONS

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method.

Test Settings

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

Test Note

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

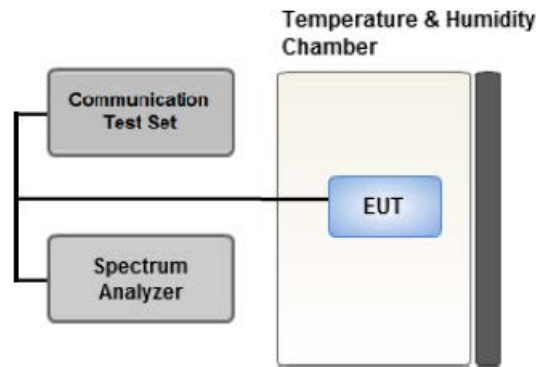
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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

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

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

3.4 PEAK- TO- AVERAGE RATIO



Test setup

① CCDF Procedure for PAPR

Test Settings

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

② Alternate Procedure for PAPR

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

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

Test Settings(Peak Power)

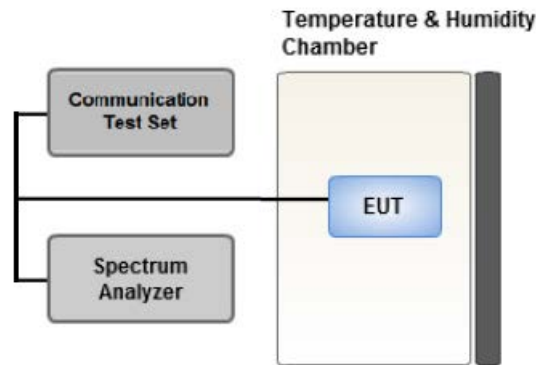
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

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

Test Settings(Average Power)

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

3.5 OCCUPIED BANDWIDTH.



Test setup

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

The EUT makes a call to the communication simulator.

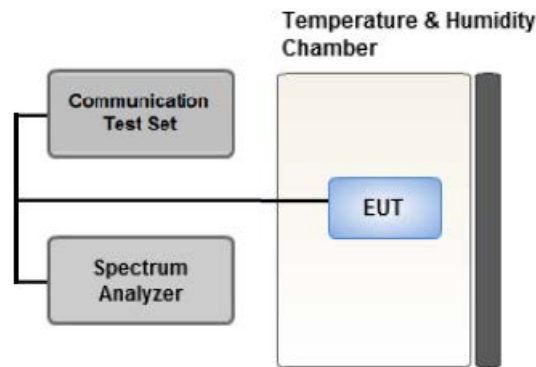
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

Test Settings

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

3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

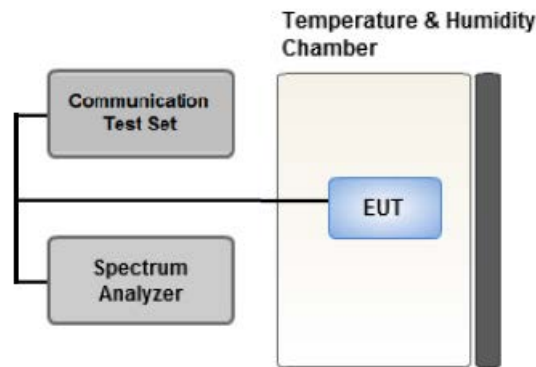
Test Overview

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

Test Settings

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

3.7 BAND EDGE



Test setup

Test Overview

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

Test Settings

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

Test Notes

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

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

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

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

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

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

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

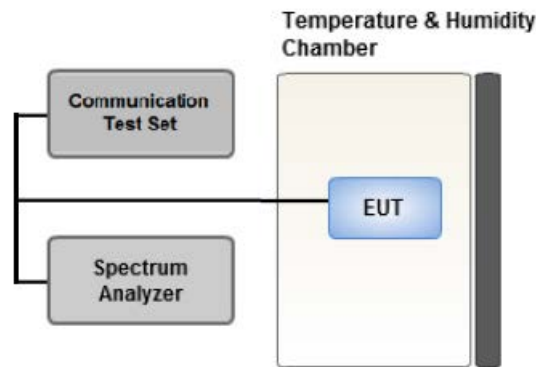
However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz.

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

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

Where $\text{Margin} < 1$ 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
- All simultaneous transmission scenarios of operation were investigated, and the test results showed no additional significant emissions relative to the least restrictive limit were observed.
Therefore, only the worst case(stand-alone) results were reported.
- All power classes were tested, and the results were reported for the worst case PC2.
- Radiated Spurious emissions are measured while operating in EN-DC mode with Sub 6 NR carrier as well as an LTE carrier (anchor).
All EN-DC mode of operation (=anchor) were investigated and the test results were measured No Peak Found.
The test results which are attenuated more than 20 dB below the permissible value, so it was not reported.
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.
- In the case of radiated spurious emissions, all bandwidth of operation were investigated and the worst case bandwidth results are reported.(Worst case : 70 MHz)
- SM-S731U & additional models were tested and the worst case results are reported.
(Worst case : SM-S731U)

[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		Y
Radiated Spurious and Harmonic Emissions	PI/2 BPSK	See Section 8.2		X

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

3.10 WORST CASE(CONDUCTED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
(Worst case: DFT-S-OFDM)
- Modulation : All Modulation of operation were investigated and the worst case configuration results are reported.
(Worst case: PI/2 BPSK)
- NR n77 (3450 – 3550 MHz / 3700 – 3980 MHz) overlaps the entire frequency range of NR n78 (3450 -3550 MHz / 3700 – 3800 MHz) and they have the same Tune-up power.
- All modes of operation were investigated and the worst case configuration results are reported.
Mode: NSA, SA, SRS
Worst case: SA
- All power classes were tested, and the results were reported for the worst case PC2.
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.
- SM-S731U & additional models were tested and the worst case results are reported.
(Worst case : SM-S731U)

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth,	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100	Mid	Full RB	0
Peak-To-Average Ratio	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100	Mid	Full RB	0
Band Edge	PI/2 BPSK	10	Low	1	0
			High	1	23
		15	Low	1	0
			High	1	37
		20	Low	1	0
			High	1	50
		25	Low	1	0
			High	1	64
		30	Low	1	0
			High	1	77
		40	Low	1	0
			High	1	105
		50	Low	1	0
			High	1	132
		60	Low	1	0
			High	1	161
		70	Low	1	0
			High	1	188
		80	Low	1	0
			High	1	216
		90	Low	1	0
			High	1	244
		100	Low	1	0
			High	1	272
		10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100	Low, High	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	PI/2 BPSK	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100	Low, Mid, High	1	1

4. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacture	Serial No.	Due to Calibration	Calibration Interval
Precision Dipole Antenna	UHAP	Schwarzbeck	01273	03/10/2026	Biennial
Precision Dipole Antenna	UHAP	Schwarzbeck	01274	03/10/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	02289	02/14/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	9120D-1299	04/17/2026	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/23/2027	Biennial
Loop Antenna(9 kHz~30 MHz)	FMZB1513	Rohde & Schwarz	1513-175	01/06/2027	Biennial
Bilog Antenna	VULB9160	Schwarzbeck	3150	03/05/2027	Biennial
Hybrid Antenna	VULB9160	Schwarzbeck	760	02/17/2027	Biennial
RF Switching System	FBSR-06B (1G HPF + LNA)	T&M SYSTEM	F3L1	05/08/2026	Annual
RF Switching System	FBSR-06B (3G HPF + LNA)	T&M SYSTEM	F3L2	05/08/2026	Annual
RF Switching System	FBSR-06B (6G HPF + LNA)	T&M SYSTEM	F3L3	05/08/2026	Annual
RF Switching System	FBSR-06B (LNA)	T&M SYSTEM	F3L4	05/08/2026	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/07/2025	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/19/2026	Annual
DC Power Supply	E3632A	Hewlett Packard	MY40004427	08/22/2025	Annual
Power Splitter(DC~26.5 GHz)	11667B	Hewlett Packard	11275	02/04/2026	Annual
Chamber	SU-642	ESPEC	93008124	02/11/2026	Annual
Signal Analyzer(10 Hz~26.5 GHz)	N9020A	Agilent	MY51110063	03/21/2026	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/10/2026	Annual
Spectrum Analyzer (10 Hz~40 GHz)	FSV40	REOHDE & SCHWARZ	101436	02/04/2026	Annual
Signal & Spectrum Analyzer (2 Hz~67 GHz)	FSW67	REOHDE & SCHWARZ	101736	05/27/2026	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/05/2025	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/14/2026	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6262302511	05/08/2026	Annual
Signal Analyzer(5 Hz~40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/14/2026	Annual
4-Way Divider	ZC4PD-K1844+	Mini-Circuits	942907	09/10/2025	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/26/2025	Annual
Automation Software	FCC 2G/3G/4G Conducted	HCT CO., LTD	-	-	-
Automation Software	FCC NR Conducted	HCT CO., LTD	-	-	-
Automation Software	FCC LTE Radiated	HCT CO., LTD	-	-	-
Automation Software	FCC NR Radiated	HCT CO., LTD	-	-	-

Note:

- Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
- Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5 (Version : 2017).

5. MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4:2014.

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

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

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

6. SUMMARY OF TEST RESULTS

-. The decision rule applies 'simple acceptance'

6.1 Test Condition : Conducted Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Occupied Bandwidth	§ 2.1049	N/A	PASS
Band Edge / Spurious and Harmonic Emissions at Antenna Terminal.	§ 2.1051, § 27.53(n)(2), § 27.53(l)(2)	< -13 dBm	PASS
Conducted Output Power	§ 2.1046	N/A	Note1
Peak- to- Average Ratio	§ 27.50(k)(4), § 27.50(j)(4)	< 13 dB	PASS
Frequency stability / variation of ambient temperature	§ 2.1055, § 27.54	Emission must remain in band	PASS

Note:

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

6.2 Test Condition : Radiated Test

Test Description	FCC Part Section(s)	Test Limit	Test Result
Equivalent Isotropic Radiated Power	§ 27.50(k)(3), § 27.50(j)(3)	< 1 Watts max. EIRP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1051, § 27.53(n)(2), § 27.53(l)(2)	< -13 dBm	PASS

Note:

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

7. SAMPLE CALCULATION

7.1 ERP Sample Calculation

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

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

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

7.2 EIRP Sample Calculation

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

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

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

7.3. Emission Designator

GSM Emission Designator

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

EDGE Emission Designator

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

WCDMA Emission Designator

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

QPSK Modulation

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

QAM Modulation

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

8. TEST DATA(3450 MHz - 3550 MHz)

8.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3455.01	Sub6 n77(78)/ 10 MHz [30 kHz]	PI/2 BPSK	-22.56	15.42	11.96	3.04	H	< 1.00	0.272	24.34	1	12
		QPSK	-22.61	15.37	11.96	3.04	H		0.269	24.29		
		16-QAM	-23.68	14.30	11.96	3.04	H		0.210	23.22		
		64-QAM	-25.04	12.94	11.96	3.04	H		0.153	21.86		
		256-QAM	-27.14	10.84	11.96	3.04	H		0.095	19.76		
3500.01		PI/2 BPSK	-22.16	16.16	12.04	3.04	H		0.328	25.16	1	12
		QPSK	-22.20	16.12	12.04	3.04	H		0.325	25.12		
		16-QAM	-23.21	15.11	12.04	3.04	H		0.258	24.11		
		64-QAM	-24.85	13.47	12.04	3.04	H		0.177	22.47		
		256-QAM	-26.75	11.57	12.04	3.04	H		0.114	20.57		
3544.99		PI/2 BPSK	-21.68	16.67	12.04	3.07	H		0.366	25.64	1	12
		QPSK	-21.70	16.65	12.04	3.07	H		0.365	25.62		
		16-QAM	-22.66	15.69	12.04	3.07	H		0.292	24.66		
		64-QAM	-24.41	13.94	12.04	3.07	H		0.195	22.91		
		256-QAM	-26.04	12.31	12.04	3.07	H		0.134	21.28		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3457.50	Sub6 n77(78)/ 15 MHz [30 kHz]	PI/2 BPSK	-22.53	15.48	12.00	3.04	H	< 1.00	0.278	24.44	1	19
		QPSK	-22.56	15.45	12.00	3.04	H		0.276	24.41		
		16-QAM	-23.47	14.54	12.00	3.04	H		0.224	23.50		
		64-QAM	-25.08	12.93	12.00	3.04	H		0.155	21.89		
		256-QAM	-27.14	10.87	12.00	3.04	H		0.096	19.83		
3500.01		PI/2 BPSK	-22.17	16.15	12.04	3.04	H		0.327	25.15	1	19
		QPSK	-22.22	16.10	12.04	3.04	H		0.324	25.10		
		16-QAM	-23.23	15.09	12.04	3.04	H		0.256	24.09		
		64-QAM	-24.84	13.48	12.04	3.04	H		0.177	22.48		
		256-QAM	-26.58	11.74	12.04	3.04	H		0.119	20.74		
3542.50		PI/2 BPSK	-21.73	16.62	12.04	3.07	H		0.362	25.59	1	19
		QPSK	-21.75	16.60	12.04	3.07	H		0.361	25.57		
		16-QAM	-22.78	15.57	12.04	3.07	H		0.284	24.54		
		64-QAM	-24.20	14.15	12.04	3.07	H		0.205	23.12		
		256-QAM	-26.16	12.19	12.04	3.07	H		0.131	21.16		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3460.02	Sub6 n77(78)/ 20 MHz [30 kHz]	PI/2 BPSK	-22.43	15.58	12.00	3.04	H	< 1.00	0.284	24.54	1	25
		QPSK	-22.58	15.43	12.00	3.04	H		0.275	24.39		
		16-QAM	-23.47	14.54	12.00	3.04	H		0.224	23.50		
		64-QAM	-25.07	12.94	12.00	3.04	H		0.155	21.90		
		256-QAM	-26.79	11.22	12.00	3.04	H		0.104	20.18		
3500.01		PI/2 BPSK	-22.23	16.09	12.04	3.04	H		0.323	25.09	1	1
		QPSK	-22.26	16.06	12.04	3.04	H		0.321	25.06		
		16-QAM	-23.28	15.04	12.04	3.04	H		0.254	24.04		
		64-QAM	-24.71	13.61	12.04	3.04	H		0.182	22.61		
		256-QAM	-26.71	11.61	12.04	3.04	H		0.115	20.61		
3540.00		PI/2 BPSK	-21.61	16.67	12.04	3.06	H		0.367	25.65	1	25
		QPSK	-21.68	16.60	12.04	3.06	H		0.361	25.58		
		16-QAM	-22.55	15.73	12.04	3.06	H		0.296	24.71		
		64-QAM	-24.22	14.06	12.04	3.06	H		0.201	23.04		
		256-QAM	-26.08	12.20	12.04	3.06	H		0.131	21.18		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3462.50	Sub6 n77(78)/ 25 MHz [30 kHz]	PI/2 BPSK	-22.47	15.53	12.02	3.02	H	< 1.00	0.284	24.53	1	32
		QPSK	-22.48	15.52	12.02	3.02	H		0.283	24.52		
		16-QAM	-23.28	14.72	12.02	3.02	H		0.236	23.72		
		64-QAM	-25.00	13.00	12.02	3.02	H		0.158	22.00		
		256-QAM	-27.10	10.90	12.02	3.02	H		0.098	19.90		
3500.01		PI/2 BPSK	-22.16	16.16	12.04	3.04	H		0.328	25.16	1	32
		QPSK	-22.21	16.11	12.04	3.04	H		0.324	25.11		
		16-QAM	-23.25	15.07	12.04	3.04	H		0.255	24.07		
		64-QAM	-24.64	13.68	12.04	3.04	H		0.185	22.68		
		256-QAM	-26.82	11.50	12.04	3.04	H		0.112	20.50		
3537.50		PI/2 BPSK	-21.75	16.53	12.04	3.06	H		0.356	25.51	1	32
		QPSK	-21.79	16.49	12.04	3.06	H		0.352	25.47		
		16-QAM	-22.62	15.66	12.04	3.06	H		0.291	24.64		
		64-QAM	-24.22	14.06	12.04	3.06	H		0.201	23.04		
		256-QAM	-26.27	12.01	12.04	3.06	H		0.126	20.99		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3465.00		PI/2 BPSK	-22.63	15.37	12.02	3.02	H	< 1.00	0.274	24.37	1	1
		QPSK	-22.68	15.32	12.02	3.02	H		0.270	24.32		
		16-QAM	-23.71	14.29	12.02	3.02	H		0.213	23.29		
		64-QAM	-25.06	12.94	12.02	3.02	H		0.156	21.94		
		256-QAM	-26.98	11.02	12.02	3.02	H		0.100	20.02		
3500.01	Sub6 n77(78)/ 30 MHz [30 kHz]	PI/2 BPSK	-22.26	16.06	12.04	3.04	H	< 1.00	0.321	25.06	1	39
		QPSK	-22.29	16.03	12.04	3.04	H		0.318	25.03		
		16-QAM	-23.37	14.95	12.04	3.04	H		0.248	23.95		
		64-QAM	-24.67	13.65	12.04	3.04	H		0.184	22.65		
		256-QAM	-26.67	11.65	12.04	3.04	H		0.116	20.65		
3534.99		PI/2 BPSK	-21.78	16.52	12.04	3.05	H	< 1.00	0.356	25.51	1	76
		QPSK	-21.79	16.51	12.04	3.05	H		0.355	25.50		
		16-QAM	-22.87	15.43	12.04	3.05	H		0.277	24.42		
		64-QAM	-24.30	14.00	12.04	3.05	H		0.199	22.99		
		256-QAM	-26.27	12.03	12.04	3.05	H		0.126	21.02		

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
3470.01		PI/2 BPSK	-22.43	15.57	12.04	3.01	H	< 1.00	0.288	24.60	1	104
		QPSK	-22.45	15.55	12.04	3.01	H		0.287	24.58		
		16-QAM	-23.54	14.46	12.04	3.01	H		0.223	23.49		
		64-QAM	-24.84	13.16	12.04	3.01	H		0.166	22.19		
		256-QAM	-26.89	11.11	12.04	3.01	H		0.103	20.14		
3500.01	Sub6 n77(78)/ 40 MHz [30 kHz]	PI/2 BPSK	-22.25	16.07	12.04	3.04	H	< 1.00	0.321	25.07	1	53
		QPSK	-22.26	16.06	12.04	3.04	H		0.321	25.06		
		16-QAM	-23.23	15.09	12.04	3.04	H		0.256	24.09		
		64-QAM	-24.72	13.60	12.04	3.04	H		0.182	22.60		
		256-QAM	-26.69	11.63	12.04	3.04	H		0.116	20.63		
3529.98		PI/2 BPSK	-21.78	16.54	12.04	3.05	H	< 1.00	0.357	25.53	1	104
		QPSK	-21.79	16.53	12.04	3.05	H		0.356	25.52		
		16-QAM	-22.91	15.41	12.04	3.05	H		0.275	24.40		
		64-QAM	-24.32	14.00	12.04	3.05	H		0.199	22.99		
		256-QAM	-26.25	12.07	12.04	3.05	H		0.128	21.06		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3475.02	Sub6 n77(78)/ 50 MHz [30 kHz]	PI/2 BPSK	-22.14	15.88	12.04	3.02	H	< 1.00	0.309	24.90	1	131
		QPSK	-22.17	15.85	12.04	3.02	H		0.307	24.87		
		16-QAM	-23.16	14.86	12.04	3.02	H		0.244	23.88		
		64-QAM	-24.65	13.37	12.04	3.02	H		0.173	22.39		
		256-QAM	-26.57	11.45	12.04	3.02	H		0.111	20.47		
3500.01		PI/2 BPSK	-22.22	16.10	12.04	3.04	H		0.324	25.10	1	66
		QPSK	-22.26	16.06	12.04	3.04	H		0.321	25.06		
		16-QAM	-23.20	15.12	12.04	3.04	H		0.258	24.12		
		64-QAM	-24.75	13.57	12.04	3.04	H		0.181	22.57		
		256-QAM	-26.65	11.67	12.04	3.04	H		0.117	20.67		
3525.00		PI/2 BPSK	-21.70	16.70	12.04	3.04	H		0.372	25.70	1	131
		QPSK	-21.72	16.68	12.04	3.04	H		0.370	25.68		
		16-QAM	-22.81	15.59	12.04	3.04	H		0.288	24.59		
		64-QAM	-24.22	14.18	12.04	3.04	H		0.208	23.18		
		256-QAM	-26.16	12.24	12.04	3.04	H		0.133	21.24		

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
3480.00	Sub6 n77(78)/ 60 MHz [30 kHz]	PI/2 BPSK	-22.31	15.72	12.04	3.02	H	< 1.00	0.298	24.74	1	160
		QPSK	-22.32	15.71	12.04	3.02	H		0.297	24.73		
		16-QAM	-23.32	14.71	12.04	3.02	H		0.236	23.73		
		64-QAM	-24.78	13.25	12.04	3.02	H		0.169	22.27		
		256-QAM	-26.65	11.38	12.04	3.02	H		0.110	20.40		
3500.01		PI/2 BPSK	-22.03	16.29	12.04	3.04	H		0.338	25.29	1	160
		QPSK	-22.06	16.26	12.04	3.04	H		0.336	25.26		
		16-QAM	-23.11	15.21	12.04	3.04	H		0.264	24.21		
		64-QAM	-24.57	13.75	12.04	3.04	H		0.188	22.75		
		256-QAM	-26.43	11.89	12.04	3.04	H		0.123	20.89		
3519.99		PI/2 BPSK	-21.62	16.87	12.04	3.04	H		0.386	25.87	1	160
		QPSK	-21.65	16.84	12.04	3.04	H		0.384	25.84		
		16-QAM	-22.64	15.85	12.04	3.04	H		0.305	24.85		
		64-QAM	-24.17	14.32	12.04	3.04	H		0.215	23.32		
		256-QAM	-26.07	12.42	12.04	3.04	H		0.139	21.42		

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
3485.01	Sub6 n77(78)/ 70 MHz [30 kHz]	PI/2 BPSK	-22.27	15.83	12.04	3.03	H	< 1.00	0.305	24.84	1	187
		QPSK	-22.28	15.82	12.04	3.03	H		0.304	24.83		
		16-QAM	-23.25	14.85	12.04	3.03	H		0.243	23.86		
		64-QAM	-24.80	13.30	12.04	3.03	H		0.170	22.31		
		256-QAM	-26.78	11.32	12.04	3.03	H		0.108	20.33		
3500.01		PI/2 BPSK	-21.82	16.50	12.04	3.04	H		0.355	25.50	1	187
		QPSK	-21.83	16.49	12.04	3.04	H		0.354	25.49		
		16-QAM	-22.80	15.52	12.04	3.04	H		0.283	24.52		
		64-QAM	-24.38	13.94	12.04	3.04	H		0.197	22.94		
		256-QAM	-26.29	12.03	12.04	3.04	H		0.127	21.03		
3514.98		PI/2 BPSK	-21.57	16.95	12.04	3.04	H		0.394	25.95	1	187
		QPSK	-21.58	16.94	12.04	3.04	H		0.393	25.94		
		16-QAM	-22.71	15.81	12.04	3.04	H		0.303	24.81		
		64-QAM	-24.11	14.41	12.04	3.04	H		0.219	23.41		
		256-QAM	-26.13	12.39	12.04	3.04	H		0.138	21.39		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3490.02	Sub6 n77(78)/ 80 MHz [30 kHz]	PI/2 BPSK	-22.06	16.11	12.04	3.04	H	< 1.00	0.324	25.11	1	215
		QPSK	-22.07	16.10	12.04	3.04	H		0.324	25.10		
		16-QAM	-23.08	15.09	12.04	3.04	H		0.256	24.09		
		64-QAM	-24.57	13.60	12.04	3.04	H		0.182	22.60		
		256-QAM	-26.46	11.71	12.04	3.04	H		0.118	20.71		
3500.01		PI/2 BPSK	-21.56	16.76	12.04	3.04	H		0.377	25.76	1	215
		QPSK	-21.59	16.73	12.04	3.04	H		0.374	25.73		
		16-QAM	-22.57	15.75	12.04	3.04	H		0.299	24.75		
		64-QAM	-24.15	14.17	12.04	3.04	H		0.207	23.17		
		256-QAM	-26.10	12.22	12.04	3.04	H		0.132	21.22		
3510.00		PI/2 BPSK	-21.64	16.93	12.04	3.05	H		0.391	25.92	1	215
		QPSK	-21.66	16.91	12.04	3.05	H		0.389	25.90		
		16-QAM	-22.75	15.82	12.04	3.05	H		0.303	24.81		
		64-QAM	-24.13	14.44	12.04	3.05	H		0.220	23.43		
		256-QAM	-26.05	12.52	12.04	3.05	H		0.142	21.51		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3495.00	Sub6 n77(78)/ 90 MHz [30 kHz]	PI/2 BPSK	-21.67	16.58	12.04	3.04	H	< 1.00	0.361	25.58	1	243
		QPSK	-21.68	16.57	12.04	3.04	H		0.361	25.57		
		16-QAM	-22.66	15.59	12.04	3.04	H		0.288	24.59		
		64-QAM	-24.03	14.22	12.04	3.04	H		0.210	23.22		
		256-QAM	-25.90	12.35	12.04	3.04	H		0.136	21.35		
3500.01		PI/2 BPSK	-21.55	16.77	12.04	3.04	H		0.378	25.77	1	243
		QPSK	-21.56	16.76	12.04	3.04	H		0.377	25.76		
		16-QAM	-22.57	15.75	12.04	3.04	H		0.299	24.75		
		64-QAM	-24.15	14.17	12.04	3.04	H		0.207	23.17		
		256-QAM	-25.88	12.44	12.04	3.04	H		0.139	21.44		
3504.99		PI/2 BPSK	-21.56	16.89	12.04	3.05	H		0.387	25.88	1	243
		QPSK	-21.59	16.86	12.04	3.05	H		0.385	25.85		
		16-QAM	-22.55	15.90	12.04	3.05	H		0.308	24.89		
		64-QAM	-24.13	14.32	12.04	3.05	H		0.214	23.31		
		256-QAM	-25.99	12.46	12.04	3.05	H		0.140	21.45		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3500.01	Sub6 n77(78)/ 100 MHz [30 kHz]	PI/2 BPSK	-21.52	16.80	12.04	3.04	H	< 1.00	0.380	25.80	1	271
		QPSK	-21.54	16.78	12.04	3.04	H		0.378	25.78		
		16-QAM	-22.60	15.72	12.04	3.04	H		0.296	24.72		
		64-QAM	-23.92	14.40	12.04	3.04	H		0.219	23.40		
		256-QAM	-25.93	12.39	12.04	3.04	H		0.138	21.39		

8.2 RADIATED SPURIOUS EMISSIONS

NR Band:	<u>N77(78)</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	-63.18	11.16	-57.58	4.46	H	-50.88	-13.00	1	187
	10 455.03	-62.97	11.73	-52.64	5.57	H	-46.48	-13.00		
	13 940.04	-59.68	12.84	-49.24	6.51	H	-42.91	-13.00		
633334 (3500.01)	7 000.02	-63.01	11.13	-56.36	4.45	H	-49.68	-13.00	1	187
	10 500.03	-59.01	11.71	-47.76	5.64	H	-41.69	-13.00		
	14 000.04	-59.65	12.76	-50.07	6.55	H	-43.86	-13.00		
634332 (3514.98)	7 029.96	-63.24	11.04	-56.59	4.42	H	-49.97	-13.00	1	187
	10 544.94	-64.43	11.67	-53.48	5.63	H	-47.44	-13.00		
	14 059.92	-60.10	12.73	-50.93	6.48	H	-44.68	-13.00		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)	Limit (dB)
Sub6 n77(78)	10 MHz	3500.01	BPSK	Full RB	0	4.48	13.00
			QPSK			5.31	
			16-QAM			6.05	
			64-QAM			6.31	
			256-QAM			6.43	
	15 MHz		BPSK			4.43	
			QPSK			5.29	
			16-QAM			6.02	
			64-QAM			6.29	
			256-QAM			6.58	
	20 MHz		BPSK			4.80	
			QPSK			5.34	
			16-QAM			6.07	
			64-QAM			6.28	
			256-QAM			6.55	
	25 MHz		BPSK			4.66	
			QPSK			5.38	
			16-QAM			6.10	
			64-QAM			6.34	
			256-QAM			6.55	
	30 MHz		BPSK			4.56	
			QPSK			5.35	
			16-QAM			6.08	
			64-QAM			6.28	
			256-QAM			6.56	
	40 MHz		BPSK			4.97	
			QPSK			5.40	
			16-QAM			6.09	
			64-QAM			6.33	
			256-QAM			6.52	

	50 MHz		BPSK			4.80	
			QPSK			5.35	
			16-QAM			6.06	
			64-QAM			6.24	
			256-QAM			6.54	
	60 MHz		BPSK			4.72	
			QPSK			5.40	
			16-QAM			6.11	
			64-QAM			6.32	
			256-QAM			6.58	
	70 MHz		BPSK			4.66	
			QPSK			5.38	
			16-QAM			6.10	
			64-QAM			6.32	
			256-QAM			6.53	
	80 MHz		BPSK			4.59	
			QPSK			5.40	
			16-QAM			6.11	
			64-QAM			6.31	
			256-QAM			6.60	
	90 MHz		BPSK			4.67	
			QPSK			5.39	
			16-QAM			6.15	
			64-QAM			6.33	
			256-QAM			6.62	
100 MHz	BPSK	4.71					
	QPSK	5.40					
	16-QAM	6.14					
	64-QAM	6.36					
	256-QAM	6.55					

Note:

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

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n77(78)	10 MHz	3500.01	BPSK	Full RB	0	8.6893
			QPSK			8.7208
			16-QAM			8.7210
			64-QAM			8.6985
			256-QAM			8.6991
	15 MHz		BPSK			12.972
			QPSK			12.993
			16-QAM			13.008
			64-QAM			12.953
			256-QAM			13.068
	20 MHz		BPSK			17.952
			QPSK			17.995
			16-QAM			18.020
			64-QAM			17.951
			256-QAM			17.961
	25 MHz		BPSK			23.009
			QPSK			23.002
			16-QAM			23.017
			64-QAM			23.042
			256-QAM			22.962
	30 MHz		BPSK			27.009
			QPSK			27.015
			16-QAM			26.900
			64-QAM			27.011
			256-QAM			26.981
	40 MHz		BPSK			35.928
			QPSK			36.012
			16-QAM			35.898
			64-QAM			36.002
			256-QAM			35.902

	50 MHz		BPSK			45.997
			QPSK			45.964
			16-QAM			45.984
			64-QAM			45.970
			256-QAM			45.834
	60 MHz		BPSK			58.244
			QPSK			58.105
			16-QAM			58.541
			64-QAM			58.222
			256-QAM			58.340
	70 MHz		BPSK			64.935
			QPSK			64.816
			16-QAM			64.759
			64-QAM			64.772
			256-QAM			64.976
	80 MHz		BPSK			77.611
			QPSK			77.621
			16-QAM			77.614
			64-QAM			77.756
			256-QAM			77.752
	90 MHz		BPSK			87.347
			QPSK			87.240
			16-QAM			87.447
			64-QAM			87.480
			256-QAM			87.393
	100 MHz		BPSK			96.931
			QPSK			96.909
			16-QAM			97.018
			64-QAM			96.746
			256-QAM			96.992

Note:

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

8.5 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
Sub6 n77(78)	10	3455.010	6.2613	30.315	-63.568	-33.253	-13.00
		3500.010	4.2972	29.722	-63.369	-33.647	
		3544.980	7.4178	30.315	-62.440	-32.125	
	15	3457.500	7.4776	30.315	-63.150	-32.835	
		3500.010	9.1526	30.315	-62.143	-31.828	
		3542.490	4.9153	29.722	-61.711	-31.989	
	20	3460.020	8.5344	30.315	-63.289	-32.974	
		3500.010	6.0220	30.315	-63.402	-33.087	
		3540.000	5.2244	30.315	-63.177	-32.862	
	25	3462.510	7.4577	30.315	-63.145	-32.830	
		3500.010	8.2054	30.315	-63.157	-32.842	
		3537.480	9.9601	30.315	-61.603	-31.288	
	30	3465.000	5.1646	30.315	-62.853	-32.538	
		3500.010	5.9921	30.315	-63.283	-32.968	
		3534.990	9.1426	30.315	-63.229	-32.914	
	40	3470.010	5.9821	30.315	-63.068	-32.753	
		3500.010	9.4816	30.315	-63.157	-32.842	
		3529.980	8.9033	30.315	-63.639	-33.324	
	50	3475.020	9.7109	30.315	-63.219	-32.904	
		3500.010	9.4018	30.315	-63.442	-33.127	
		3525.000	6.0120	30.315	-62.868	-32.553	
	60	3480.000	9.7308	30.315	-63.897	-33.582	
		3500.010	9.6810	30.315	-63.541	-33.226	
		3519.990	4.8555	29.722	-63.002	-33.280	
	70	3485.010	8.2752	30.315	-63.697	-33.382	
		3500.010	7.4676	30.315	-63.468	-33.153	
		3514.980	6.0120	30.315	-62.917	-32.602	
	80	3490.020	4.5664	29.722	-63.708	-33.986	
		3500.010	8.8634	30.315	-63.271	-32.956	
		3510.000	4.9851	29.722	-62.882	-33.160	
	90	3495.000	9.3819	30.315	-63.712	-33.397	
		3500.010	9.1326	30.315	-63.670	-33.355	
		3504.990	8.6441	30.315	-62.943	-32.628	
	100	3500.010	9.4118	30.315	-62.777	-32.462	

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 010 002	0.0	0.000 000	0.000
	100 %	-30	3455 010 001	-0.5	0.000 000	0.000
	100 %	-20	3455 010 006	4.5	0.000 000	0.001
	100 %	-10	3455 010 006	4.7	0.000 000	0.001
	100 %	0	3455 010 004	2.3	0.000 000	0.001
	100 %	+10	3455 010 005	2.9	0.000 000	0.001
	100 %	+30	3455 010 003	1.8	0.000 000	0.001
	100 %	+40	3455 010 006	4.3	0.000 000	0.001
	100 %	+50	3455 010 007	4.9	0.000 000	0.001
	Batt. Endpoint	+20	3455 010 002	0.2	0.000 000	0.000
3544.980	100 %	+20(Ref)	3544 980 008	0.0	0.000 000	0.000
	100 %	-30	3544 980 008	0.0	0.000 000	0.000
	100 %	-20	3544 980 015	7.0	0.000 000	0.002
	100 %	-10	3544 980 011	3.3	0.000 000	0.001
	100 %	0	3544 980 016	7.8	0.000 000	0.002
	100 %	+10	3544 980 010	1.8	0.000 000	0.001
	100 %	+30	3544 980 013	4.9	0.000 000	0.001
	100 %	+40	3544 980 012	4.1	0.000 000	0.001
	100 %	+50	3544 980 012	3.6	0.000 000	0.001
	Batt. Endpoint	+20	3544 980 003	-4.8	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 499 998	0.0	0.000 000	0.000
	100 %	-30	3457 500 001	3.3	0.000 000	0.001
	100 %	-20	3457 499 999	1.1	0.000 000	0.000
	100 %	-10	3457 500 001	3.8	0.000 000	0.001
	100 %	0	3457 500 001	3.1	0.000 000	0.001
	100 %	+10	3457 500 000	2.1	0.000 000	0.001
	100 %	+30	3457 499 997	-0.8	0.000 000	0.000
	100 %	+40	3457 500 000	2.4	0.000 000	0.001
	100 %	+50	3457 499 998	0.1	0.000 000	0.000
	Batt. Endpoint	+20	3457 499 999	1.7	0.000 000	0.000
3542.490	100 %	+20(Ref)	3542 490 000	0.0	0.000 000	0.000
	100 %	-30	3542 490 001	0.8	0.000 000	0.000
	100 %	-20	3542 490 002	2.1	0.000 000	0.001
	100 %	-10	3542 490 001	1.5	0.000 000	0.000
	100 %	0	3542 489 998	-1.7	0.000 000	0.000
	100 %	+10	3542 490 004	3.7	0.000 000	0.001
	100 %	+30	3542 490 002	2.1	0.000 000	0.001
	100 %	+40	3542 490 003	2.6	0.000 000	0.001
	100 %	+50	3542 489 997	-2.8	0.000 000	-0.001
	Batt. Endpoint	+20	3542 490 005	4.9	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 020 002	0.0	0.000 000	0.000
	100 %	-30	3460 020 003	0.9	0.000 000	0.000
	100 %	-20	3460 020 002	-0.1	0.000 000	0.000
	100 %	-10	3460 020 006	3.6	0.000 000	0.001
	100 %	0	3460 019 999	-3.3	0.000 000	-0.001
	100 %	+10	3460 020 004	1.8	0.000 000	0.001
	100 %	+30	3460 020 004	1.5	0.000 000	0.000
	100 %	+40	3460 020 006	3.5	0.000 000	0.001
	100 %	+50	3460 020 001	-1.9	0.000 000	-0.001
	Batt. Endpoint	+20	3460 020 001	-1.4	0.000 000	0.000
3540.000	100 %	+20(Ref)	3540 000 004	0.0	0.000 000	0.000
	100 %	-30	3540 000 000	-3.9	0.000 000	-0.001
	100 %	-20	3540 000 005	0.4	0.000 000	0.000
	100 %	-10	3540 000 001	-3.0	0.000 000	-0.001
	100 %	0	3540 000 006	1.8	0.000 000	0.001
	100 %	+10	3540 000 004	0.1	0.000 000	0.000
	100 %	+30	3540 000 015	10.5	0.000 000	0.003
	100 %	+40	3540 000 006	1.7	0.000 000	0.000
	100 %	+50	3540 000 001	-3.1	0.000 000	-0.001
	Batt. Endpoint	+20	3540 000 005	0.8	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 510 004	0.0	0.000 000	0.000
	100 %	-30	3462 510 002	-2.0	0.000 000	-0.001
	100 %	-20	3462 510 006	2.7	0.000 000	0.001
	100 %	-10	3462 510 004	0.2	0.000 000	0.000
	100 %	0	3462 510 004	0.7	0.000 000	0.000
	100 %	+10	3462 510 004	0.5	0.000 000	0.000
	100 %	+30	3462 510 005	1.3	0.000 000	0.000
	100 %	+40	3462 510 008	3.9	0.000 000	0.001
	100 %	+50	3462 510 007	2.9	0.000 000	0.001
	Batt. Endpoint	+20	3462 510 006	2.7	0.000 000	0.001
3537.480	100 %	+20(Ref)	3537 480 000	0.0	0.000 000	0.000
	100 %	-30	3537 479 995	-5.1	0.000 000	-0.001
	100 %	-20	3537 480 004	3.6	0.000 000	0.001
	100 %	-10	3537 480 003	3.0	0.000 000	0.001
	100 %	0	3537 479 999	-1.1	0.000 000	0.000
	100 %	+10	3537 479 992	-8.0	0.000 000	-0.002
	100 %	+30	3537 479 999	-1.2	0.000 000	0.000
	100 %	+40	3537 479 997	-3.4	0.000 000	-0.001
	100 %	+50	3537 480 002	1.4	0.000 000	0.000
	Batt. Endpoint	+20	3537 479 995	-4.8	0.000 000	-0.001

- ▣ 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)	3465 000 000	0.0	0.000 000	0.000
	100 %	-30	3464 999 997	-2.1	0.000 000	-0.001
	100 %	-20	3464 999 994	-5.1	0.000 000	-0.001
	100 %	-10	3465 000 000	0.1	0.000 000	0.000
	100 %	0	3464 999 998	-1.8	0.000 000	-0.001
	100 %	+10	3465 000 002	2.4	0.000 000	0.001
	100 %	+30	3465 000 000	0.1	0.000 000	0.000
	100 %	+40	3464 999 998	-1.5	0.000 000	0.000
	100 %	+50	3465 000 003	3.3	0.000 000	0.001
	Batt. Endpoint	+20	3465 000 000	0.1	0.000 000	0.000
3534.990	100 %	+20(Ref)	3534 990 002	0.0	0.000 000	0.000
	100 %	-30	3534 990 005	3.0	0.000 000	0.001
	100 %	-20	3534 990 005	3.2	0.000 000	0.001
	100 %	-10	3534 990 010	7.9	0.000 000	0.002
	100 %	0	3534 990 009	7.5	0.000 000	0.002
	100 %	+10	3534 990 010	8.3	0.000 000	0.002
	100 %	+30	3534 990 009	7.7	0.000 000	0.002
	100 %	+40	3534 990 006	4.1	0.000 000	0.001
	100 %	+50	3534 990 006	4.6	0.000 000	0.001
	Batt. Endpoint	+20	3534 990 014	12.1	0.000 000	0.003

- ▣ 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 009 995	0.0	0.000 000	0.000
	100 %	-30	3470 009 995	-0.1	0.000 000	0.000
	100 %	-20	3470 009 998	3.4	0.000 000	0.001
	100 %	-10	3470 010 000	5.0	0.000 000	0.001
	100 %	0	3470 009 992	-2.6	0.000 000	-0.001
	100 %	+10	3470 009 993	-2.2	0.000 000	-0.001
	100 %	+30	3470 009 997	2.1	0.000 000	0.001
	100 %	+40	3470 009 991	-4.3	0.000 000	-0.001
	100 %	+50	3470 009 995	0.6	0.000 000	0.000
	Batt. Endpoint	+20	3470 009 992	-2.9	0.000 000	-0.001
3529.980	100 %	+20(Ref)	3529 980 001	0.0	0.000 000	0.000
	100 %	-30	3529 980 006	4.9	0.000 000	0.001
	100 %	-20	3529 980 006	4.8	0.000 000	0.001
	100 %	-10	3529 980 009	7.4	0.000 000	0.002
	100 %	0	3529 980 000	-1.6	0.000 000	0.000
	100 %	+10	3529 980 008	6.9	0.000 000	0.002
	100 %	+30	3529 980 006	4.5	0.000 000	0.001
	100 %	+40	3529 979 998	-3.8	0.000 000	-0.001
	100 %	+50	3529 980 003	1.4	0.000 000	0.000
	Batt. Endpoint	+20	3529 980 003	1.5	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 020 004	0.0	0.000 000	0.000
	100 %	-30	3475 020 008	3.8	0.000 000	0.001
	100 %	-20	3475 020 009	4.3	0.000 000	0.001
	100 %	-10	3475 020 009	5.0	0.000 000	0.001
	100 %	0	3475 020 012	7.5	0.000 000	0.002
	100 %	+10	3475 020 009	5.0	0.000 000	0.001
	100 %	+30	3475 020 005	0.2	0.000 000	0.000
	100 %	+40	3475 020 008	3.9	0.000 000	0.001
	100 %	+50	3475 020 004	-0.7	0.000 000	0.000
	Batt. Endpoint	+20	3475 020 008	3.4	0.000 000	0.001
3525.000	100 %	+20(Ref)	3525 000 002	0.0	0.000 000	0.000
	100 %	-30	3525 000 004	1.4	0.000 000	0.000
	100 %	-20	3525 000 008	5.4	0.000 000	0.002
	100 %	-10	3525 000 000	-1.8	0.000 000	-0.001
	100 %	0	3525 000 006	3.4	0.000 000	0.001
	100 %	+10	3525 000 003	1.1	0.000 000	0.000
	100 %	+30	3525 000 001	-0.8	0.000 000	0.000
	100 %	+40	3525 000 005	2.4	0.000 000	0.001
	100 %	+50	3525 000 002	0.1	0.000 000	0.000
	Batt. Endpoint	+20	3525 000 005	3.0	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)	(%)	
3480.000	100 %	+20(Ref)	3480 000 001	0.0	0.000 000	0.000
	100 %	-30	3479 999 998	-3.3	0.000 000	-0.001
	100 %	-20	3480 000 003	1.1	0.000 000	0.000
	100 %	-10	3480 000 001	-0.3	0.000 000	0.000
	100 %	0	3480 000 007	5.9	0.000 000	0.002
	100 %	+10	3480 000 002	0.6	0.000 000	0.000
	100 %	+30	3480 000 004	2.3	0.000 000	0.001
	100 %	+40	3480 000 004	2.3	0.000 000	0.001
	100 %	+50	3479 999 999	-2.8	0.000 000	-0.001
	Batt. Endpoint	+20	3480 000 002	0.6	0.000 000	0.000
3519.990	100 %	+20(Ref)	3519 990 002	0.0	0.000 000	0.000
	100 %	-30	3519 990 003	0.7	0.000 000	0.000
	100 %	-20	3519 990 004	2.3	0.000 000	0.001
	100 %	-10	3519 989 998	-3.6	0.000 000	-0.001
	100 %	0	3519 990 007	4.8	0.000 000	0.001
	100 %	+10	3519 990 002	-0.3	0.000 000	0.000
	100 %	+30	3519 990 003	0.5	0.000 000	0.000
	100 %	+40	3519 990 006	4.5	0.000 000	0.001
	100 %	+50	3519 990 005	3.2	0.000 000	0.001
	Batt. Endpoint	+20	3519 990 002	-0.5	0.000 000	0.000

- ▣ 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 010 001	0.0	0.000 000	0.000
	100 %	-30	3485 010 004	3.3	0.000 000	0.001
	100 %	-20	3485 010 000	-0.5	0.000 000	0.000
	100 %	-10	3485 010 009	7.7	0.000 000	0.002
	100 %	0	3485 010 000	-1.2	0.000 000	0.000
	100 %	+10	3485 010 002	1.6	0.000 000	0.000
	100 %	+30	3485 010 005	4.7	0.000 000	0.001
	100 %	+40	3485 010 003	2.6	0.000 000	0.001
	100 %	+50	3485 010 011	10.2	0.000 000	0.003
	Batt. Endpoint	+20	3485 010 003	2.2	0.000 000	0.001
3514.980	100 %	+20(Ref)	3514 980 008	0.0	0.000 000	0.000
	100 %	-30	3514 980 018	10.7	0.000 000	0.003
	100 %	-20	3514 980 026	18.2	0.000 001	0.005
	100 %	-10	3514 980 024	16.3	0.000 000	0.005
	100 %	0	3514 980 025	17.3	0.000 000	0.005
	100 %	+10	3514 980 018	10.6	0.000 000	0.003
	100 %	+30	3514 980 009	1.4	0.000 000	0.000
	100 %	+40	3514 980 016	8.4	0.000 000	0.002
	100 %	+50	3514 980 023	15.3	0.000 000	0.004
	Batt. Endpoint	+20	3514 980 027	19.6	0.000 001	0.006

- ▣ 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 020 003	0.0	0.000 000	0.000
	100 %	-30	3490 020 006	2.5	0.000 000	0.001
	100 %	-20	3490 020 006	2.5	0.000 000	0.001
	100 %	-10	3490 020 010	6.3	0.000 000	0.002
	100 %	0	3490 020 008	4.5	0.000 000	0.001
	100 %	+10	3490 020 007	3.6	0.000 000	0.001
	100 %	+30	3490 020 009	5.7	0.000 000	0.002
	100 %	+40	3490 020 007	3.4	0.000 000	0.001
	100 %	+50	3490 020 007	4.2	0.000 000	0.001
	Batt. Endpoint	+20	3490 020 005	1.6	0.000 000	0.000
3510.000	100 %	+20(Ref)	3510 000 004	0.0	0.000 000	0.000
	100 %	-30	3510 000 011	7.1	0.000 000	0.002
	100 %	-20	3510 000 007	3.2	0.000 000	0.001
	100 %	-10	3510 000 006	2.4	0.000 000	0.001
	100 %	0	3510 000 007	3.7	0.000 000	0.001
	100 %	+10	3510 000 015	11.6	0.000 000	0.003
	100 %	+30	3510 000 008	4.6	0.000 000	0.001
	100 %	+40	3510 000 012	8.4	0.000 000	0.002
	100 %	+50	3510 000 011	7.2	0.000 000	0.002
	Batt. Endpoint	+20	3510 000 009	5.6	0.000 000	0.002

- ▣ 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)	3495 000 002	0.0	0.000 000	0.000
	100 %	-30	3495 000 007	5.5	0.000 000	0.002
	100 %	-20	3495 000 002	-0.4	0.000 000	0.000
	100 %	-10	3495 000 009	7.1	0.000 000	0.002
	100 %	0	3495 000 010	8.1	0.000 000	0.002
	100 %	+10	3495 000 010	7.9	0.000 000	0.002
	100 %	+30	3495 000 004	2.6	0.000 000	0.001
	100 %	+40	3495 000 007	5.3	0.000 000	0.002
	100 %	+50	3495 000 005	3.2	0.000 000	0.001
	Batt. Endpoint	+20	3495 000 012	10.2	0.000 000	0.003
3504.990	100 %	+20(Ref)	3504 990 006	0.0	0.000 000	0.000
	100 %	-30	3504 990 011	5.6	0.000 000	0.002
	100 %	-20	3504 990 011	5.1	0.000 000	0.001
	100 %	-10	3504 990 010	4.1	0.000 000	0.001
	100 %	0	3504 990 013	6.9	0.000 000	0.002
	100 %	+10	3504 990 007	1.3	0.000 000	0.000
	100 %	+30	3504 990 010	4.7	0.000 000	0.001
	100 %	+40	3504 990 013	7.2	0.000 000	0.002
	100 %	+50	3504 990 008	2.0	0.000 000	0.001
	Batt. Endpoint	+20	3504 990 004	-1.3	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 010 005	0.0	0.000 000	0.000
	100 %	-30	3500 010 008	2.9	0.000 000	0.001
	100 %	-20	3500 010 008	2.9	0.000 000	0.001
	100 %	-10	3500 010 008	2.7	0.000 000	0.001
	100 %	0	3500 010 005	-0.5	0.000 000	0.000
	100 %	+10	3500 010 012	6.6	0.000 000	0.002
	100 %	+30	3500 010 012	6.9	0.000 000	0.002
	100 %	+40	3500 010 010	4.9	0.000 000	0.001
	100 %	+50	3500 010 009	4.3	0.000 000	0.001
	Batt. Endpoint	+20	3500 010 008	2.6	0.000 000	0.001

9. TEST DATA (3700 MHz - 3980 MHz)

9.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3705.00	Sub6 n77(78)/ 10 MHz [30 kHz]	PI/2 BPSK	-20.93	17.66	12.08	3.08	H	< 1.00	0.463	26.66	1	22
		QPSK	-20.98	17.61	12.08	3.08	H		0.458	26.61		
		16-QAM	-21.97	16.62	12.08	3.08	H		0.365	25.62		
		64-QAM	-23.35	15.24	12.08	3.08	H		0.265	24.24		
		256-QAM	-25.40	13.19	12.08	3.08	H		0.166	22.19		
3840.00		PI/2 BPSK	-22.64	17.31	11.58	3.20	H		0.371	25.69	1	22
		QPSK	-22.65	17.30	11.58	3.20	H		0.370	25.68		
		16-QAM	-23.84	16.11	11.58	3.20	H		0.281	24.49		
		64-QAM	-25.25	14.70	11.58	3.20	H		0.203	23.08		
		256-QAM	-27.09	12.86	11.58	3.20	H		0.133	21.24		
3975.00		PI/2 BPSK	-23.78	16.13	11.70	3.25	H		0.287	24.58	1	1
		QPSK	-23.79	16.12	11.70	3.25	H		0.286	24.57		
		16-QAM	-24.77	15.14	11.70	3.25	H		0.229	23.59		
		64-QAM	-26.32	13.59	11.70	3.25	H		0.160	22.04		
		256-QAM	-28.18	11.73	11.70	3.25	H		0.104	20.18		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3707.51	Sub6 n77(78)/ 15 MHz [30 kHz]	PI/2 BPSK	-20.97	17.53	12.08	3.08	H	< 1.00	0.450	26.53	1	36
		QPSK	-21.01	17.49	12.08	3.08	H		0.446	26.49		
		16-QAM	-22.00	16.50	12.08	3.08	H		0.355	25.50		
		64-QAM	-23.68	14.82	12.08	3.08	H		0.241	23.82		
		256-QAM	-25.40	13.10	12.08	3.08	H		0.162	22.10		
3840.00		PI/2 BPSK	-22.52	17.43	11.58	3.20	H		0.381	25.81	1	36
		QPSK	-22.55	17.40	11.58	3.20	H		0.378	25.78		
		16-QAM	-23.60	16.35	11.58	3.20	H		0.297	24.73		
		64-QAM	-25.32	14.63	11.58	3.20	H		0.200	23.01		
		256-QAM	-26.95	13.00	11.58	3.20	H		0.137	21.38		
3972.48		PI/2 BPSK	-23.59	16.27	11.69	3.25	H	0.296	24.71	1	1	
		QPSK	-23.60	16.26	11.69	3.25	H	0.295	24.70			
		16-QAM	-24.71	15.15	11.69	3.25	H	0.229	23.59			
		64-QAM	-26.14	13.72	11.69	3.25	H	0.164	22.16			
		256-QAM	-28.08	11.78	11.69	3.25	H	0.105	20.22			

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
3710.01	Sub6 n77(78)/ 20 MHz [30 kHz]	PI/2 BPSK	-20.82	17.68	12.08	3.08	H	< 1.00	0.466	26.68	1	49
		QPSK	-20.83	17.67	12.08	3.08	H		0.465	26.67		
		16-QAM	-21.90	16.60	12.08	3.08	H		0.363	25.60		
		64-QAM	-23.44	15.06	12.08	3.08	H		0.255	24.06		
		256-QAM	-25.37	13.13	12.08	3.08	H		0.163	22.13		
3840.00		PI/2 BPSK	-22.52	17.43	11.58	3.20	H		0.381	25.81	1	49
		QPSK	-22.53	17.42	11.58	3.20	H		0.380	25.80		
		16-QAM	-23.60	16.35	11.58	3.20	H		0.297	24.73		
		64-QAM	-25.05	14.90	11.58	3.20	H		0.213	23.28		
		256-QAM	-26.88	13.07	11.58	3.20	H		0.140	21.45		
3969.99		PI/2 BPSK	-23.50	16.36	11.69	3.25	H	0.302	24.80	1	1	
		QPSK	-23.53	16.33	11.69	3.25	H	0.300	24.77			
		16-QAM	-24.60	15.26	11.69	3.25	H	0.234	23.70			
		64-QAM	-26.11	13.75	11.69	3.25	H	0.166	22.19			
		256-QAM	-27.91	11.95	11.69	3.25	H	0.109	20.39			

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3712.50	Sub6 n77(78)/ 25 MHz [30 kHz]	PI/2 BPSK	-20.86	17.71	12.08	3.11	H	< 1.00	0.466	26.68	1	32
		QPSK	-20.89	17.68	12.08	3.11	H		0.462	26.65		
		16-QAM	-21.84	16.73	12.08	3.11	H		0.372	25.70		
		64-QAM	-23.36	15.21	12.08	3.11	H		0.262	24.18		
		256-QAM	-25.32	13.25	12.08	3.11	H		0.167	22.22		
3840.00		PI/2 BPSK	-22.54	17.41	11.58	3.20	H		0.379	25.79	1	1
		QPSK	-22.58	17.37	11.58	3.20	H		0.376	25.75		
		16-QAM	-23.59	16.36	11.58	3.20	H		0.298	24.74		
		64-QAM	-25.02	14.93	11.58	3.20	H		0.214	23.31		
		256-QAM	-26.95	13.00	11.58	3.20	H		0.137	21.38		
3967.50		PI/2 BPSK	-23.35	16.51	11.69	3.25	H		0.313	24.95	1	1
		QPSK	-23.37	16.49	11.69	3.25	H		0.311	24.93		
		16-QAM	-24.50	15.36	11.69	3.25	H		0.240	23.80		
		64-QAM	-25.85	14.01	11.69	3.25	H		0.176	22.45		
		256-QAM	-27.87	11.99	11.69	3.25	H		0.110	20.43		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3715.02	Sub6 n77(78)/ 30 MHz [30 kHz]	PI/2 BPSK	-20.89	17.68	12.08	3.11	H	< 1.00	0.462	26.65	1	39
		QPSK	-20.93	17.64	12.08	3.11	H		0.458	26.61		
		16-QAM	-21.96	16.61	12.08	3.11	H		0.361	25.58		
		64-QAM	-23.47	15.10	12.08	3.11	H		0.255	24.07		
		256-QAM	-25.41	13.16	12.08	3.11	H		0.163	22.13		
3840.00		PI/2 BPSK	-22.55	17.40	11.58	3.20	H		0.378	25.78	1	76
		QPSK	-22.56	17.39	11.58	3.20	H		0.378	25.77		
		16-QAM	-23.68	16.27	11.58	3.20	H		0.292	24.65		
		64-QAM	-25.06	14.89	11.58	3.20	H		0.212	23.27		
		256-QAM	-27.07	12.88	11.58	3.20	H		0.134	21.26		
3964.98		PI/2 BPSK	-23.38	16.55	11.67	3.24	H		0.315	24.98	1	1
		QPSK	-23.39	16.54	11.67	3.24	H		0.314	24.97		
		16-QAM	-24.42	15.51	11.67	3.24	H		0.248	23.94		
		64-QAM	-25.85	14.08	11.67	3.24	H		0.178	22.51		
		256-QAM	-27.72	12.21	11.67	3.24	H		0.116	20.64		

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(78)/ 40 MHz [30 kHz]	PI/2 BPSK	-20.84	17.79	12.07	3.13	H	< 1.00	0.471	26.73	1	53
		QPSK	-20.88	17.75	12.07	3.13	H		0.467	26.69		
		16-QAM	-21.91	16.72	12.07	3.13	H		0.368	25.66		
		64-QAM	-23.38	15.25	12.07	3.13	H		0.262	24.19		
		256-QAM	-25.25	13.38	12.07	3.13	H		0.171	22.32		
3840.00		PI/2 BPSK	-22.39	17.56	11.58	3.20	H		0.393	25.94	1	1
		QPSK	-22.42	17.53	11.58	3.20	H		0.390	25.91		
		16-QAM	-23.48	16.47	11.58	3.20	H		0.305	24.85		
		64-QAM	-24.91	15.04	11.58	3.20	H		0.220	23.42		
		256-QAM	-26.86	13.09	11.58	3.20	H		0.140	21.47		
3960.00		PI/2 BPSK	-23.07	16.93	11.65	3.24	H		0.342	25.34	1	1
		QPSK	-23.09	16.91	11.65	3.24	H		0.340	25.32		
		16-QAM	-24.14	15.86	11.65	3.24	H		0.267	24.27		
		64-QAM	-25.61	14.39	11.65	3.24	H		0.191	22.80		
		256-QAM	-27.53	12.47	11.65	3.24	H		0.122	20.88		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3725.10	Sub6 n77(78)/ 50 MHz [30 kHz]	PI/2 BPSK	-20.96	17.80	12.06	3.15	H	< 1.00	0.469	26.71	1	66
		QPSK	-21.01	17.75	12.06	3.15	H		0.463	26.66		
		16-QAM	-21.95	16.81	12.06	3.15	H		0.373	25.72		
		64-QAM	-23.49	15.27	12.06	3.15	H		0.262	24.18		
		256-QAM	-25.38	13.38	12.06	3.15	H		0.169	22.29		
3840.00		PI/2 BPSK	-22.43	17.52	11.58	3.20	H		0.389	25.90	1	1
		QPSK	-22.44	17.51	11.58	3.20	H		0.388	25.89		
		16-QAM	-23.49	16.46	11.58	3.20	H		0.305	24.84		
		64-QAM	-24.92	15.03	11.58	3.20	H		0.219	23.41		
		256-QAM	-26.81	13.14	11.58	3.20	H		0.142	21.52		
3954.99		PI/2 BPSK	-22.87	17.16	11.63	3.23	H		0.360	25.56	1	1
		QPSK	-22.88	17.15	11.63	3.23	H		0.359	25.55		
		16-QAM	-23.94	16.09	11.63	3.23	H		0.281	24.49		
		64-QAM	-25.40	14.63	11.63	3.23	H		0.201	23.03		
		256-QAM	-27.30	12.73	11.63	3.23	H		0.130	21.13		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3730.02	Sub6 n77(78)/ 60 MHz [30 kHz]	PI/2 BPSK	-20.90	18.00	12.04	3.17	H	< 1.00	0.486	26.87	1	1
		QPSK	-20.94	17.96	12.04	3.17	H		0.482	26.83		
		16-QAM	-21.96	16.94	12.04	3.17	H		0.381	25.81		
		64-QAM	-23.35	15.55	12.04	3.17	H		0.277	24.42		
		256-QAM	-25.32	13.58	12.04	3.17	H		0.176	22.45		
3840.00		PI/2 BPSK	-22.32	17.63	11.58	3.20	H		0.399	26.01	1	1
		QPSK	-22.33	17.62	11.58	3.20	H		0.398	26.00		
		16-QAM	-23.52	16.43	11.58	3.20	H		0.303	24.81		
		64-QAM	-24.97	14.98	11.58	3.20	H		0.217	23.36		
		256-QAM	-26.77	13.18	11.58	3.20	H		0.143	21.56		
3949.98		PI/2 BPSK	-22.87	17.18	11.61	3.22	H		0.361	25.57	1	1
		QPSK	-22.88	17.17	11.61	3.22	H		0.360	25.56		
		16-QAM	-23.87	16.18	11.61	3.22	H		0.286	24.57		
		64-QAM	-25.39	14.66	11.61	3.22	H		0.202	23.05		
		256-QAM	-27.43	12.62	11.61	3.22	H		0.126	21.01		

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
3735.00	Sub6 n77(78)/ 70 MHz [30 kHz]	PI/2 BPSK	-20.88	18.14	12.02	3.18	H	< 1.00	0.499	26.98	1	1
		QPSK	-20.89	18.13	12.02	3.18	H		0.498	26.97		
		16-QAM	-21.97	17.05	12.02	3.18	H		0.388	25.89		
		64-QAM	-23.37	15.65	12.02	3.18	H		0.281	24.49		
		256-QAM	-25.35	13.67	12.02	3.18	H		0.178	22.51		
3840.00		PI/2 BPSK	-22.34	17.61	11.58	3.20	H		0.397	25.99	1	1
		QPSK	-22.35	17.60	11.58	3.20	H		0.396	25.98		
		16-QAM	-23.42	16.53	11.58	3.20	H		0.310	24.91		
		64-QAM	-24.93	15.02	11.58	3.20	H		0.219	23.40		
		256-QAM	-26.96	12.99	11.58	3.20	H		0.137	21.37		
3945.00		PI/2 BPSK	-22.82	17.21	11.60	3.23	H		0.361	25.58	1	1
		QPSK	-22.83	17.20	11.60	3.23	H		0.361	25.57		
		16-QAM	-23.86	16.17	11.60	3.23	H		0.284	24.54		
		64-QAM	-25.38	14.65	11.60	3.23	H		0.200	23.02		
		256-QAM	-27.47	12.56	11.60	3.23	H		0.124	20.93		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3740.01		PI/2 BPSK	-21.23	17.92	12.00	3.19	H	< 1.00	0.471	26.73	1	108
		QPSK	-21.24	17.91	12.00	3.19	H		0.470	26.72		
		16-QAM	-22.30	16.85	12.00	3.19	H		0.368	25.66		
		64-QAM	-23.82	15.33	12.00	3.19	H		0.259	24.14		
		256-QAM	-25.73	13.42	12.00	3.19	H		0.167	22.23		
3840.00	Sub6 n77(78)/ 80 MHz [30 kHz]	PI/2 BPSK	-22.74	17.21	11.58	3.20	H	< 1.00	0.362	25.59	1	108
		QPSK	-22.79	17.16	11.58	3.20	H		0.358	25.54		
		16-QAM	-23.70	16.25	11.58	3.20	H		0.290	24.63		
		64-QAM	-25.22	14.73	11.58	3.20	H		0.205	23.11		
		256-QAM	-27.23	12.72	11.58	3.20	H		0.129	21.10		
3939.99		PI/2 BPSK	-22.90	17.10	11.58	3.23	H	< 1.00	0.351	25.45	1	108
		QPSK	-23.01	16.99	11.58	3.23	H		0.342	25.34		
		16-QAM	-24.03	15.97	11.58	3.23	H		0.270	24.32		
		64-QAM	-25.39	14.61	11.58	3.23	H		0.198	22.96		
		256-QAM	-27.48	12.52	11.58	3.23	H		0.122	20.87		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3745.02		PI/2 BPSK	-21.29	17.88	11.97	3.18	H	< 1.00	0.465	26.67	1	122
		QPSK	-21.40	17.77	11.97	3.18	H		0.453	26.56		
		16-QAM	-22.50	16.67	11.97	3.18	H		0.352	25.46		
		64-QAM	-23.86	15.31	11.97	3.18	H		0.257	24.10		
		256-QAM	-25.82	13.35	11.97	3.18	H		0.164	22.14		
3840.00	Sub6 n77(78)/ 90 MHz [30 kHz]	PI/2 BPSK	-22.71	17.24	11.58	3.20	H	< 1.00	0.365	25.62	1	122
		QPSK	-22.79	17.16	11.58	3.20	H		0.358	25.54		
		16-QAM	-23.81	16.14	11.58	3.20	H		0.283	24.52		
		64-QAM	-25.23	14.72	11.58	3.20	H		0.204	23.10		
		256-QAM	-27.33	12.62	11.58	3.20	H		0.126	21.00		
3934.98		PI/2 BPSK	-22.87	17.08	11.56	3.24	H	< 1.00	0.347	25.40	1	122
		QPSK	-22.89	17.06	11.56	3.24	H		0.345	25.38		
		16-QAM	-24.01	15.94	11.56	3.24	H		0.267	24.26		
		64-QAM	-25.42	14.53	11.56	3.24	H		0.193	22.85		
		256-QAM	-27.40	12.55	11.56	3.24	H		0.122	20.87		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3750.00	Sub6 n77(78)/ 100 MHz [30 kHz]	PI/2 BPSK	-21.29	17.90	11.95	3.17	H	< 1.00	0.466	26.68	1	136
		QPSK	-21.34	17.85	11.95	3.17	H		0.460	26.63		
		16-QAM	-22.30	16.89	11.95	3.17	H		0.369	25.67		
		64-QAM	-23.80	15.39	11.95	3.17	H		0.261	24.17		
		256-QAM	-25.76	13.43	11.95	3.17	H		0.166	22.21		
3840.00		PI/2 BPSK	-22.71	17.24	11.58	3.20	H		0.365	25.62	1	136
		QPSK	-22.79	17.16	11.58	3.20	H		0.358	25.54		
		16-QAM	-23.85	16.10	11.58	3.20	H		0.281	24.48		
		64-QAM	-25.27	14.68	11.58	3.20	H		0.202	23.06		
		256-QAM	-27.22	12.73	11.58	3.20	H		0.129	21.11		
3930.00		PI/2 BPSK	-22.80	17.10	11.54	3.26	H		0.345	25.38	1	136
		QPSK	-22.86	17.04	11.54	3.26	H		0.340	25.32		
		16-QAM	-23.98	15.92	11.54	3.26	H		0.263	24.20		
		64-QAM	-25.27	14.63	11.54	3.26	H		0.195	22.91		
		256-QAM	-27.27	12.63	11.54	3.26	H		0.123	20.91		

9.2 RADIATED SPURIOUS EMISSIONS

■ NR Band:	<u>N77(78)</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
649000 (3735.00)	7 470.00	-62.16	11.41	-54.33	4.61	V	-47.53	-13.00	1	1
	11 205.00	-55.15	12.09	-44.31	5.84	V	-38.06	-13.00		
	14 940.00	-56.56	14.11	-50.21	6.73	V	-42.83	-13.00		
656000 (3840.00)	7 680.00	-62.69	11.47	-55.38	4.70	H	-48.61	-13.00	1	1
	11 520.00	-55.34	12.34	-44.03	5.87	V	-37.56	-13.00		
	15 360.00	-56.98	15.37	-50.40	6.88	H	-41.91	-13.00		
663000 (3945.00)	7 890.00	-62.05	11.05	-54.64	4.74	V	-48.33	-13.00	1	1
	11 835.00	-51.43	12.61	-41.10	5.95	V	-34.44	-13.00		
	15 780.00	-61.37	16.08	-54.20	6.92	V	-45.04	-13.00		

9.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)	Limit (dB)
Sub6 n77(78)	10 MHz	3840.00	BPSK	Full RB	0	3.84	13.00
			QPSK			4.09	
			16-QAM			4.80	
			64-QAM			5.11	
			256-QAM			6.01	
	15 MHz		BPSK			3.73	
			QPSK			3.99	
			16-QAM			4.74	
			64-QAM			5.07	
			256-QAM			5.89	
	20 MHz		BPSK			4.47	
			QPSK			4.16	
			16-QAM			4.83	
			64-QAM			5.19	
			256-QAM			5.96	
	25 MHz		BPSK			3.88	
			QPSK			4.27	
			16-QAM			4.96	
			64-QAM			5.25	
			256-QAM			5.98	
	30 MHz		BPSK			4.09	
			QPSK			4.15	
			16-QAM			4.93	
			64-QAM			5.15	
			256-QAM			6.05	
	40 MHz		BPSK			4.80	
			QPSK			4.40	
			16-QAM			5.02	
			64-QAM			5.30	
			256-QAM			6.08	

	50 MHz		BPSK			3.88	
			QPSK			4.16	
			16-QAM			4.88	
			64-QAM			5.13	
			256-QAM			5.96	
	60 MHz		BPSK			4.04	
			QPSK			4.26	
			16-QAM			4.96	
			64-QAM			5.20	
			256-QAM			5.99	
	70 MHz		BPSK			3.99	
			QPSK			4.18	
			16-QAM			4.88	
			64-QAM			5.15	
			256-QAM			5.96	
	80 MHz		BPSK			4.09	
			QPSK			4.27	
			16-QAM			4.95	
			64-QAM			5.19	
			256-QAM			6.03	
	90 MHz		BPSK			4.15	
			QPSK			4.29	
			16-QAM			4.94	
			64-QAM			5.23	
			256-QAM			5.95	
100 MHz	BPSK	4.37					
	QPSK	4.29					
	16-QAM	4.94					
	64-QAM	5.23					
	256-QAM	6.02					

Note:

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

9.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n77(78)	10 MHz	3840.00	BPSK	Full RB	0	8.7038
			QPSK			8.6929
			16-QAM			8.7511
			64-QAM			8.6962
			256-QAM			8.6566
	15 MHz		BPSK			12.949
			QPSK			13.034
			16-QAM			13.030
			64-QAM			13.023
			256-QAM			12.913
	20 MHz		BPSK			17.964
			QPSK			18.032
			16-QAM			18.010
			64-QAM			18.011
			256-QAM			17.913
	25 MHz		BPSK			23.015
			QPSK			23.075
			16-QAM			23.006
			64-QAM			23.029
			256-QAM			22.961
	30 MHz		BPSK			26.974
			QPSK			27.010
			16-QAM			27.018
			64-QAM			26.950
			256-QAM			26.949
	40 MHz		BPSK			35.903
			QPSK			36.038
			16-QAM			36.001
			64-QAM			36.078
			256-QAM			35.845

	50 MHz		BPSK			45.905
			QPSK			46.122
			16-QAM			46.121
			64-QAM			46.278
			256-QAM			45.918
	60 MHz		BPSK			58.169
			QPSK			58.338
			16-QAM			58.455
			64-QAM			58.318
			256-QAM			58.091
	70 MHz		BPSK			64.784
			QPSK			64.994
			16-QAM			64.728
			64-QAM			64.847
			256-QAM			64.480
	80 MHz		BPSK			77.623
			QPSK			77.794
			16-QAM			78.012
			64-QAM			77.709
			256-QAM			77.733
	90 MHz		BPSK			87.072
			QPSK			87.390
			16-QAM			87.460
			64-QAM			87.305
			256-QAM			87.148
100 MHz	BPSK	96.737				
	QPSK	96.939				
	16-QAM	96.919				
	64-QAM	97.136				
	256-QAM	96.986				

Note:

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

9.5 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
Sub6 n77(78)	10	3705.000	8.0259	30.315	-62.615	-32.300	-13.00
		3840.000	7.9861	30.315	-63.101	-32.786	
		3975.000	4.9053	29.722	-63.956	-34.234	
	15	3707.520	8.2652	30.315	-63.200	-32.885	
		3840.000	9.4616	30.315	-63.205	-32.890	
		3972.480	8.2353	30.315	-62.862	-32.547	
	20	3710.010	8.9532	30.315	-62.330	-32.015	
		3840.000	4.9552	29.722	-61.711	-31.989	
		3969.990	5.2144	30.315	-62.096	-31.781	
	25	3712.500	7.4377	30.315	-62.971	-32.656	
		3840.000	8.9133	30.315	-63.609	-33.294	
		3967.500	5.2144	30.315	-63.570	-33.255	
	30	3715.020	9.3420	30.315	-64.117	-33.802	
		3840.000	8.7936	30.315	-63.200	-32.885	
		3964.980	8.9133	30.315	-63.440	-33.125	
	40	3720.000	4.9352	29.722	-62.880	-33.158	
		3840.000	8.6640	30.315	-62.891	-32.576	
		3960.000	8.2652	30.315	-63.372	-33.057	
	50	3725.010	8.2752	30.315	-63.898	-33.583	
		3840.000	4.9951	29.722	-63.880	-34.158	
		3954.990	9.9202	30.315	-63.085	-32.770	
	60	3730.020	6.0120	30.315	-63.103	-32.788	
		3840.000	8.8036	30.315	-63.922	-33.607	
		3949.980	6.0020	30.315	-62.575	-32.260	
	70	3735.000	5.4038	30.315	-63.613	-33.298	
		3840.000	4.2972	29.722	-62.610	-32.888	
		3945.000	5.4437	30.315	-63.425	-33.110	
	80	3740.010	9.9900	30.315	-63.120	-32.805	
		3840.000	4.2972	29.722	-61.929	-32.207	
		3939.990	4.3969	29.722	-62.926	-33.204	
	90	3745.020	8.2752	30.315	-63.043	-32.728	
		3840.000	4.2872	29.722	-61.992	-32.270	
		3934.980	4.3869	29.722	-62.647	-32.925	
	100	3750.000	9.9801	30.315	-63.479	-33.164	
		3840.000	4.2872	29.722	-62.684	-32.962	
		3930.000	4.3769	29.722	-62.563	-32.841	

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)	3704 999 999	0.0	0.000 000	0.000
	100 %	-30	3704 999 997	-1.9	0.000 000	-0.001
	100 %	-20	3704 999 995	-4.0	0.000 000	-0.001
	100 %	-10	3705 000 000	0.9	0.000 000	0.000
	100 %	0	3705 000 001	2.0	0.000 000	0.001
	100 %	+10	3705 000 006	6.9	0.000 000	0.002
	100 %	+30	3704 999 998	-0.7	0.000 000	0.000
	100 %	+40	3704 999 999	0.3	0.000 000	0.000
	100 %	+50	3704 999 998	-1.2	0.000 000	0.000
	Batt. Endpoint	+20	3704 999 995	-3.7	0.000 000	-0.001
3975.000	100 %	+20(Ref)	3974 999 995	0.0	0.000 000	0.000
	100 %	-30	3974 999 989	-6.1	0.000 000	-0.002
	100 %	-20	3974 999 989	-6.3	0.000 000	-0.002
	100 %	-10	3974 999 988	-7.4	0.000 000	-0.002
	100 %	0	3974 999 988	-7.0	0.000 000	-0.002
	100 %	+10	3974 999 991	-4.4	0.000 000	-0.001
	100 %	+30	3974 999 994	-1.6	0.000 000	0.000
	100 %	+40	3974 999 992	-3.2	0.000 000	-0.001
	100 %	+50	3974 999 995	-0.1	0.000 000	0.000
	Batt. Endpoint	+20	3974 999 993	-2.0	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 520 001	0.0	0.000 000	0.000
	100 %	-30	3707 520 000	-1.0	0.000 000	0.000
	100 %	-20	3707 520 002	1.1	0.000 000	0.000
	100 %	-10	3707 520 003	2.1	0.000 000	0.001
	100 %	0	3707 520 002	1.4	0.000 000	0.000
	100 %	+10	3707 520 004	3.3	0.000 000	0.001
	100 %	+30	3707 519 999	-1.5	0.000 000	0.000
	100 %	+40	3707 520 001	0.4	0.000 000	0.000
	100 %	+50	3707 520 002	1.2	0.000 000	0.000
	Batt. Endpoint	+20	3707 520 003	2.1	0.000 000	0.001
3972.480	100 %	+20(Ref)	3972 479 998	0.0	0.000 000	0.000
	100 %	-30	3972 480 002	4.0	0.000 000	0.001
	100 %	-20	3972 479 996	-1.6	0.000 000	0.000
	100 %	-10	3972 479 997	-1.0	0.000 000	0.000
	100 %	0	3972 479 992	-5.2	0.000 000	-0.001
	100 %	+10	3972 479 994	-3.8	0.000 000	-0.001
	100 %	+30	3972 479 999	1.0	0.000 000	0.000
	100 %	+40	3972 479 997	-0.7	0.000 000	0.000
	100 %	+50	3972 479 996	-1.8	0.000 000	0.000
	Batt. Endpoint	+20	3972 480 002	4.8	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 010 002	0.0	0.000 000	0.000
	100 %	-30	3710 010 001	-1.7	0.000 000	0.000
	100 %	-20	3710 010 005	2.7	0.000 000	0.001
	100 %	-10	3710 010 005	2.4	0.000 000	0.001
	100 %	0	3710 010 001	-1.3	0.000 000	0.000
	100 %	+10	3710 010 002	-0.2	0.000 000	0.000
	100 %	+30	3710 010 001	-0.9	0.000 000	0.000
	100 %	+40	3710 010 005	3.0	0.000 000	0.001
	100 %	+50	3710 010 005	2.4	0.000 000	0.001
	Batt. Endpoint	+20	3710 010 003	1.1	0.000 000	0.000
3969.990	100 %	+20(Ref)	3969 989 998	0.0	0.000 000	0.000
	100 %	-30	3969 989 998	-0.1	0.000 000	0.000
	100 %	-20	3969 989 996	-2.0	0.000 000	-0.001
	100 %	-10	3969 989 997	-0.9	0.000 000	0.000
	100 %	0	3969 989 995	-2.7	0.000 000	-0.001
	100 %	+10	3969 989 996	-1.6	0.000 000	0.000
	100 %	+30	3969 990 003	5.4	0.000 000	0.001
	100 %	+40	3969 989 992	-5.5	0.000 000	-0.001
	100 %	+50	3969 989 997	-0.9	0.000 000	0.000
	Batt. Endpoint	+20	3969 989 994	-3.5	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 499 997	0.0	0.000 000	0.000
	100 %	-30	3712 499 995	-2.2	0.000 000	-0.001
	100 %	-20	3712 499 997	-0.3	0.000 000	0.000
	100 %	-10	3712 499 998	1.0	0.000 000	0.000
	100 %	0	3712 499 994	-3.1	0.000 000	-0.001
	100 %	+10	3712 499 997	-0.9	0.000 000	0.000
	100 %	+30	3712 499 999	1.5	0.000 000	0.000
	100 %	+40	3712 499 998	0.2	0.000 000	0.000
	100 %	+50	3712 499 997	0.1	0.000 000	0.000
	Batt. Endpoint	+20	3712 500 002	4.4	0.000 000	0.001
3967.500	100 %	+20(Ref)	3967 500 000	0.0	0.000 000	0.000
	100 %	-30	3967 499 998	-1.5	0.000 000	0.000
	100 %	-20	3967 500 000	0.2	0.000 000	0.000
	100 %	-10	3967 500 004	3.9	0.000 000	0.001
	100 %	0	3967 499 996	-3.3	0.000 000	-0.001
	100 %	+10	3967 499 996	-4.0	0.000 000	-0.001
	100 %	+30	3967 499 995	-5.1	0.000 000	-0.001
	100 %	+40	3967 499 992	-7.7	0.000 000	-0.002
	100 %	+50	3967 500 001	1.6	0.000 000	0.000
	Batt. Endpoint	+20	3967 499 994	-5.6	0.000 000	-0.001

- ▣ 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 020 001	0.0	0.000 000	0.000
	100 %	-30	3715 020 006	5.1	0.000 000	0.001
	100 %	-20	3715 020 002	1.5	0.000 000	0.000
	100 %	-10	3715 020 001	0.7	0.000 000	0.000
	100 %	0	3715 020 004	3.6	0.000 000	0.001
	100 %	+10	3715 020 000	-0.2	0.000 000	0.000
	100 %	+30	3715 020 003	2.4	0.000 000	0.001
	100 %	+40	3715 020 000	-0.6	0.000 000	0.000
	100 %	+50	3715 020 002	1.0	0.000 000	0.000
	Batt. Endpoint	+20	3715 020 004	3.6	0.000 000	0.001
3964.980	100 %	+20(Ref)	3964 980 000	0.0	0.000 000	0.000
	100 %	-30	3964 980 004	4.7	0.000 000	0.001
	100 %	-20	3964 980 000	-0.1	0.000 000	0.000
	100 %	-10	3964 979 999	-1.2	0.000 000	0.000
	100 %	0	3964 979 999	-1.0	0.000 000	0.000
	100 %	+10	3964 979 997	-2.8	0.000 000	-0.001
	100 %	+30	3964 979 999	-0.3	0.000 000	0.000
	100 %	+40	3964 979 999	-0.4	0.000 000	0.000
	100 %	+50	3964 979 997	-2.6	0.000 000	-0.001
	Batt. Endpoint	+20	3964 980 000	0.1	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 999 987	-7.8	0.000 000	-0.002
	100 %	-20	3719 999 992	-2.5	0.000 000	-0.001
	100 %	-10	3719 999 989	-5.9	0.000 000	-0.002
	100 %	0	3719 999 996	1.2	0.000 000	0.000
	100 %	+10	3719 999 998	2.8	0.000 000	0.001
	100 %	+30	3719 999 989	-5.8	0.000 000	-0.002
	100 %	+40	3719 999 993	-2.0	0.000 000	-0.001
	100 %	+50	3719 999 987	-7.5	0.000 000	-0.002
	Batt. Endpoint	+20	3719 999 996	0.8	0.000 000	0.000
3960.000	100 %	+20(Ref)	3960 000 004	0.0	0.000 000	0.000
	100 %	-30	3960 000 006	2.0	0.000 000	0.001
	100 %	-20	3960 000 004	-0.5	0.000 000	0.000
	100 %	-10	3959 999 999	-4.8	0.000 000	-0.001
	100 %	0	3960 000 008	3.8	0.000 000	0.001
	100 %	+10	3960 000 004	-0.3	0.000 000	0.000
	100 %	+30	3960 000 007	3.0	0.000 000	0.001
	100 %	+40	3960 000 002	-2.0	0.000 000	-0.001
	100 %	+50	3960 000 003	-1.5	0.000 000	0.000
	Batt. Endpoint	+20	3960 000 007	2.9	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 009 997	0.8	0.000 000	0.000
	100 %	-20	3725 009 996	-0.2	0.000 000	0.000
	100 %	-10	3725 009 999	2.2	0.000 000	0.001
	100 %	0	3725 009 999	2.6	0.000 000	0.001
	100 %	+10	3725 010 001	4.1	0.000 000	0.001
	100 %	+30	3725 009 997	0.0	0.000 000	0.000
	100 %	+40	3725 009 997	0.6	0.000 000	0.000
	100 %	+50	3725 009 997	0.6	0.000 000	0.000
	Batt. Endpoint	+20	3725 009 998	1.9	0.000 000	0.000
3954.990	100 %	+20(Ref)	3954 989 995	0.0	0.000 000	0.000
	100 %	-30	3954 989 990	-4.5	0.000 000	-0.001
	100 %	-20	3954 989 990	-5.1	0.000 000	-0.001
	100 %	-10	3954 989 992	-2.9	0.000 000	-0.001
	100 %	0	3954 989 994	-0.9	0.000 000	0.000
	100 %	+10	3954 989 990	-4.3	0.000 000	-0.001
	100 %	+30	3954 989 990	-4.9	0.000 000	-0.001
	100 %	+40	3954 989 993	-2.0	0.000 000	-0.001
	100 %	+50	3954 989 990	-4.5	0.000 000	-0.001
	Batt. Endpoint	+20	3954 989 986	-8.6	0.000 000	-0.002

- ▣ 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 020 000	0.0	0.000 000	0.000
	100 %	-30	3730 020 003	3.6	0.000 000	0.001
	100 %	-20	3730 019 995	-4.6	0.000 000	-0.001
	100 %	-10	3730 020 003	3.2	0.000 000	0.001
	100 %	0	3730 020 000	0.2	0.000 000	0.000
	100 %	+10	3730 019 999	-0.9	0.000 000	0.000
	100 %	+30	3730 020 001	0.9	0.000 000	0.000
	100 %	+40	3730 020 002	1.8	0.000 000	0.000
	100 %	+50	3730 020 000	-0.2	0.000 000	0.000
	Batt. Endpoint	+20	3730 020 003	3.0	0.000 000	0.001
3949.980	100 %	+20(Ref)	3949 979 997	0.0	0.000 000	0.000
	100 %	-30	3949 979 989	-8.2	0.000 000	-0.002
	100 %	-20	3949 979 999	2.0	0.000 000	0.001
	100 %	-10	3949 979 991	-6.0	0.000 000	-0.002
	100 %	0	3949 979 994	-3.3	0.000 000	-0.001
	100 %	+10	3949 979 995	-2.2	0.000 000	-0.001
	100 %	+30	3949 979 991	-6.5	0.000 000	-0.002
	100 %	+40	3949 979 989	-8.1	0.000 000	-0.002
	100 %	+50	3949 979 988	-9.0	0.000 000	-0.002
	Batt. Endpoint	+20	3949 979 989	-8.7	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)	3735 000 002	0.0	0.000 000	0.000
	100 %	-30	3735 000 001	-0.4	0.000 000	0.000
	100 %	-20	3735 000 001	-1.0	0.000 000	0.000
	100 %	-10	3735 000 003	1.0	0.000 000	0.000
	100 %	0	3735 000 003	1.1	0.000 000	0.000
	100 %	+10	3735 000 001	-0.6	0.000 000	0.000
	100 %	+30	3735 000 002	0.4	0.000 000	0.000
	100 %	+40	3735 000 002	0.3	0.000 000	0.000
	100 %	+50	3735 000 002	0.1	0.000 000	0.000
	Batt. Endpoint	+20	3735 000 002	0.2	0.000 000	0.000
3945.000	100 %	+20(Ref)	3944 999 992	0.0	0.000 000	0.000
	100 %	-30	3944 999 992	-0.7	0.000 000	0.000
	100 %	-20	3944 999 986	-5.9	0.000 000	-0.001
	100 %	-10	3944 999 987	-5.6	0.000 000	-0.001
	100 %	0	3944 999 990	-1.9	0.000 000	0.000
	100 %	+10	3944 999 989	-3.1	0.000 000	-0.001
	100 %	+30	3944 999 991	-0.8	0.000 000	0.000
	100 %	+40	3944 999 990	-2.4	0.000 000	-0.001
	100 %	+50	3944 999 990	-2.4	0.000 000	-0.001
	Batt. Endpoint	+20	3944 999 988	-4.2	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)	(%)	
3740.010	100 %	+20(Ref)	3740 009 999	0.0	0.000 000	0.000
	100 %	-30	3740 009 996	-2.3	0.000 000	-0.001
	100 %	-20	3740 009 999	0.3	0.000 000	0.000
	100 %	-10	3740 009 999	0.7	0.000 000	0.000
	100 %	0	3740 009 996	-2.1	0.000 000	-0.001
	100 %	+10	3740 010 000	1.4	0.000 000	0.000
	100 %	+30	3740 009 999	0.1	0.000 000	0.000
	100 %	+40	3740 010 000	1.6	0.000 000	0.000
	100 %	+50	3740 010 001	2.7	0.000 000	0.001
	Batt. Endpoint	+20	3740 010 000	1.2	0.000 000	0.000
3939.990	100 %	+20(Ref)	3939 989 995	0.0	0.000 000	0.000
	100 %	-30	3939 989 998	3.0	0.000 000	0.001
	100 %	-20	3939 989 996	0.2	0.000 000	0.000
	100 %	-10	3939 989 994	-1.3	0.000 000	0.000
	100 %	0	3939 989 997	2.1	0.000 000	0.001
	100 %	+10	3939 989 999	3.7	0.000 000	0.001
	100 %	+30	3939 989 996	0.7	0.000 000	0.000
	100 %	+40	3939 989 996	0.4	0.000 000	0.000
	100 %	+50	3939 989 999	3.8	0.000 000	0.001
	Batt. Endpoint	+20	3939 989 997	1.9	0.000 000	0.000

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

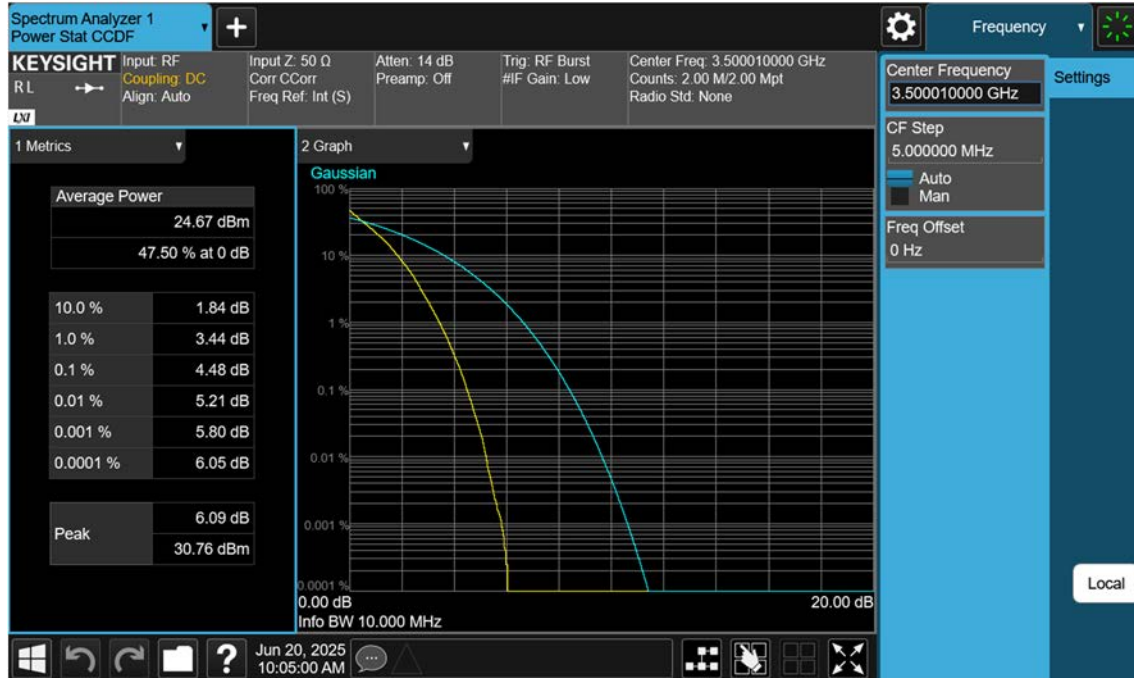
Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3745.020	100 %	+20(Ref)	3745 019 998	0.0	0.000 000	0.000
	100 %	-30	3745 020 001	3.1	0.000 000	0.001
	100 %	-20	3745 019 999	0.7	0.000 000	0.000
	100 %	-10	3745 019 999	0.5	0.000 000	0.000
	100 %	0	3745 020 002	3.7	0.000 000	0.001
	100 %	+10	3745 019 997	-0.9	0.000 000	0.000
	100 %	+30	3745 020 001	3.0	0.000 000	0.001
	100 %	+40	3745 019 998	0.3	0.000 000	0.000
	100 %	+50	3745 019 997	-1.1	0.000 000	0.000
	Batt. Endpoint	+20	3745 019 993	-5.2	0.000 000	-0.001
3934.980	100 %	+20(Ref)	3934 979 999	0.0	0.000 000	0.000
	100 %	-30	3934 980 005	5.7	0.000 000	0.001
	100 %	-20	3934 980 003	4.2	0.000 000	0.001
	100 %	-10	3934 980 001	1.4	0.000 000	0.000
	100 %	0	3934 980 008	8.5	0.000 000	0.002
	100 %	+10	3934 980 006	6.6	0.000 000	0.002
	100 %	+30	3934 980 007	7.8	0.000 000	0.002
	100 %	+40	3934 980 007	8.0	0.000 000	0.002
	100 %	+50	3934 980 006	6.3	0.000 000	0.002
	Batt. Endpoint	+20	3934 980 007	7.7	0.000 000	0.002

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

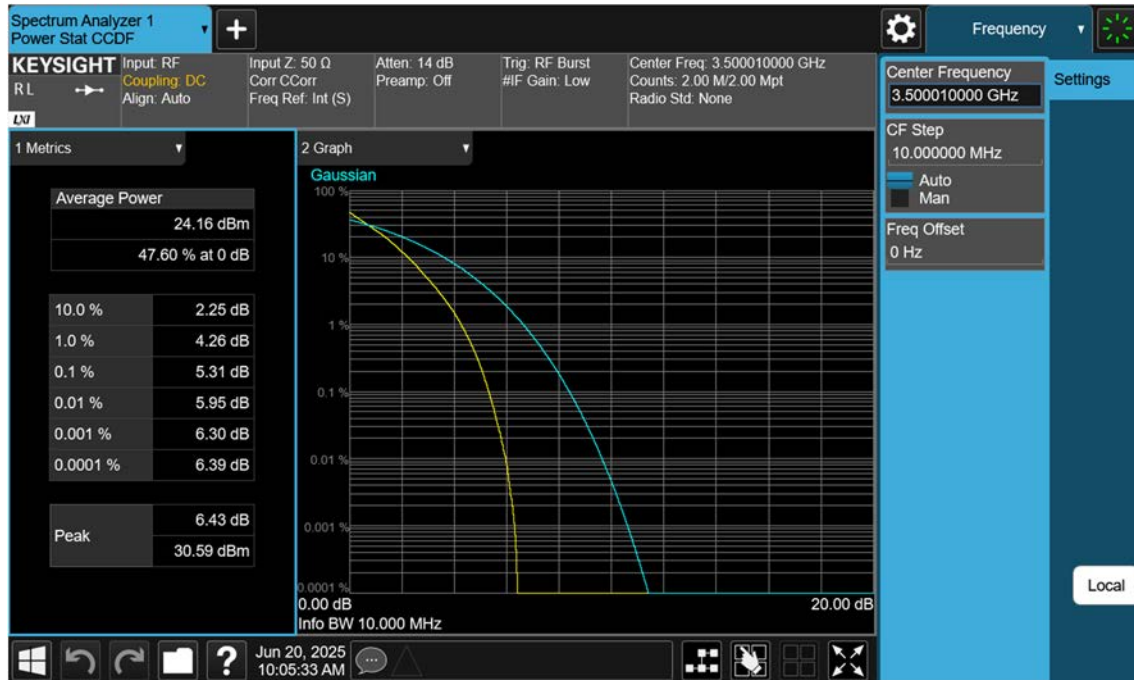
Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3750.000	100 %	+20(Ref)	3750 000 000	0.0	0.000 000	0.000
	100 %	-30	3750 000 002	2.2	0.000 000	0.001
	100 %	-20	3750 000 006	6.5	0.000 000	0.002
	100 %	-10	3750 000 000	0.7	0.000 000	0.000
	100 %	0	3750 000 002	2.1	0.000 000	0.001
	100 %	+10	3750 000 000	0.5	0.000 000	0.000
	100 %	+30	3750 000 000	-0.2	0.000 000	0.000
	100 %	+40	3750 000 000	0.0	0.000 000	0.000
	100 %	+50	3750 000 001	1.5	0.000 000	0.000
	Batt. Endpoint	+20	3750 000 001	1.6	0.000 000	0.000
3930.000	100 %	+20(Ref)	3930 000 001	0.0	0.000 000	0.000
	100 %	-30	3930 000 000	-0.8	0.000 000	0.000
	100 %	-20	3929 999 997	-3.9	0.000 000	-0.001
	100 %	-10	3930 000 004	2.8	0.000 000	0.001
	100 %	0	3930 000 004	2.8	0.000 000	0.001
	100 %	+10	3930 000 002	1.5	0.000 000	0.000
	100 %	+30	3929 999 999	-1.4	0.000 000	0.000
	100 %	+40	3930 000 008	7.5	0.000 000	0.002
	100 %	+50	3929 999 999	-2.2	0.000 000	-0.001
	Batt. Endpoint	+20	3930 000 005	4.3	0.000 000	0.001

10. TEST PLOTS(3450 MHz - 3550 MHz)

n77(3450~3550 MHz)_10 M_PAR_Mid_BPSK_FullRB



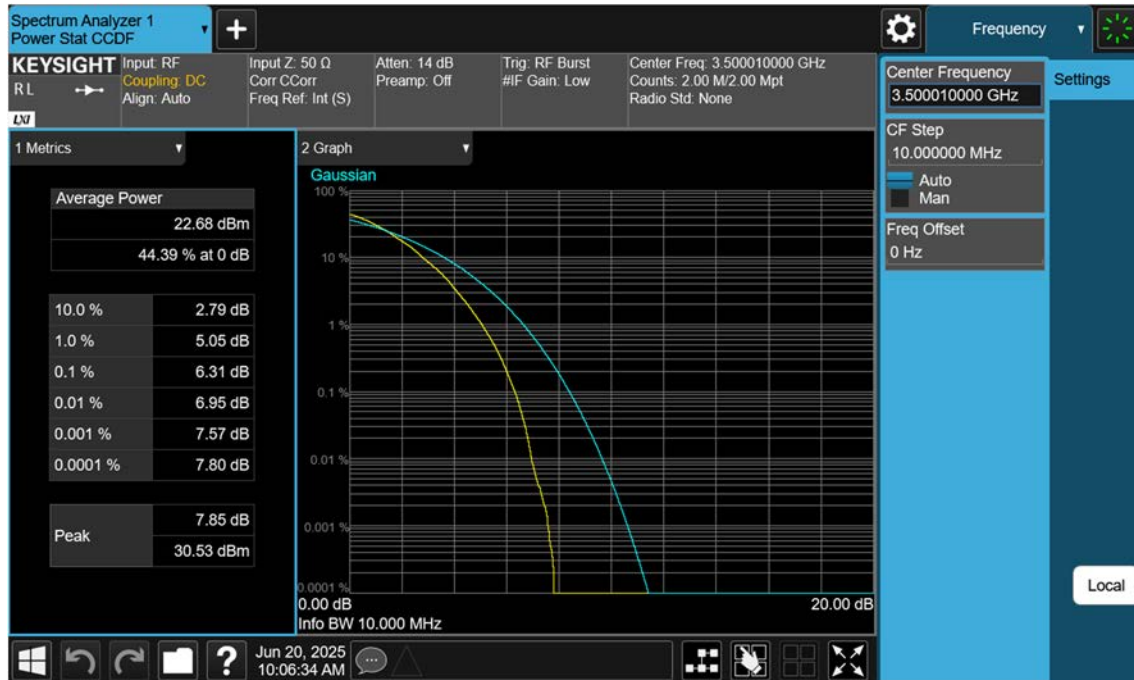
n77(3450~3550 MHz)_10 M_PAR_Mid_QPSK_FullRB



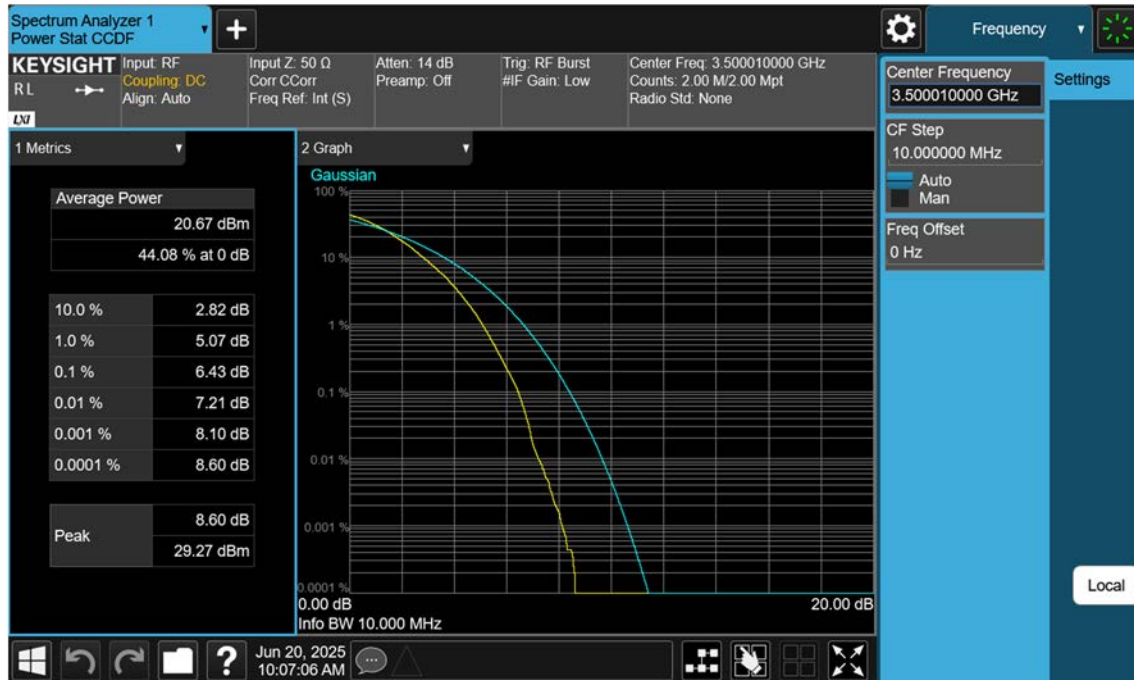
n77(3450~3550 MHz)_10 M_PAR_Mid_16QAM_FullRB



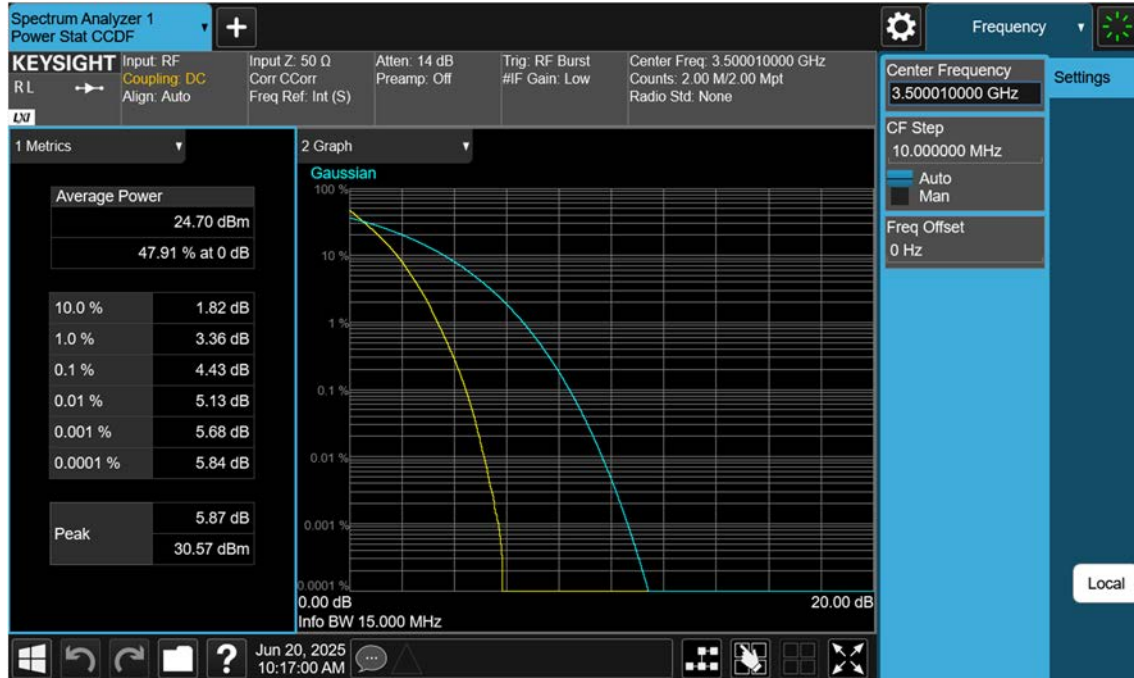
n77(3450~3550 MHz)_10 M_PAR_Mid_64QAM_FullRB



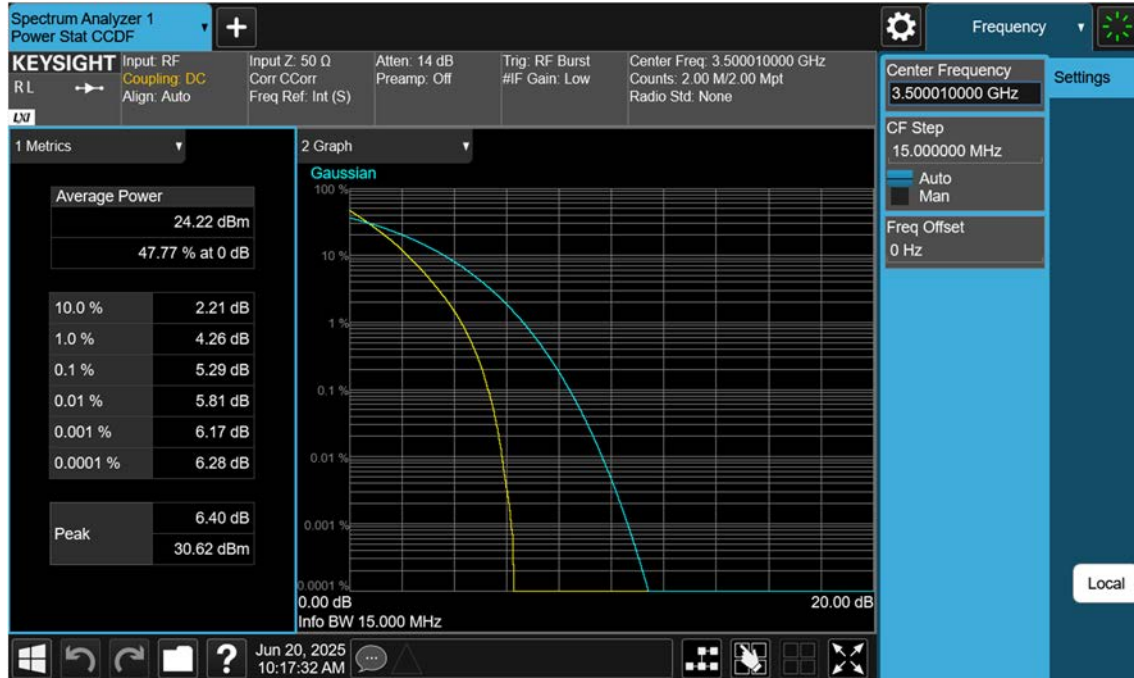
n77(3450~3550 MHz)_10 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_15 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_15 M_PAR_Mid_QPSK_FullRB



13

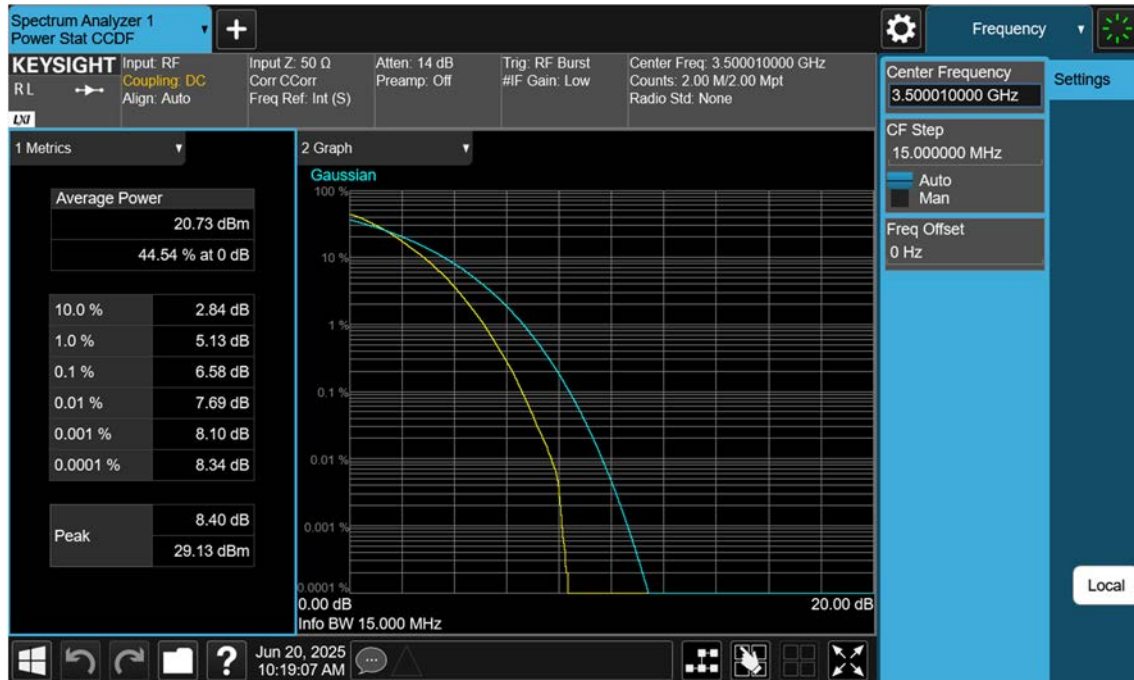
n77(3450~3550 MHz)_15 M_PAR_Mid_16QAM_FullRB



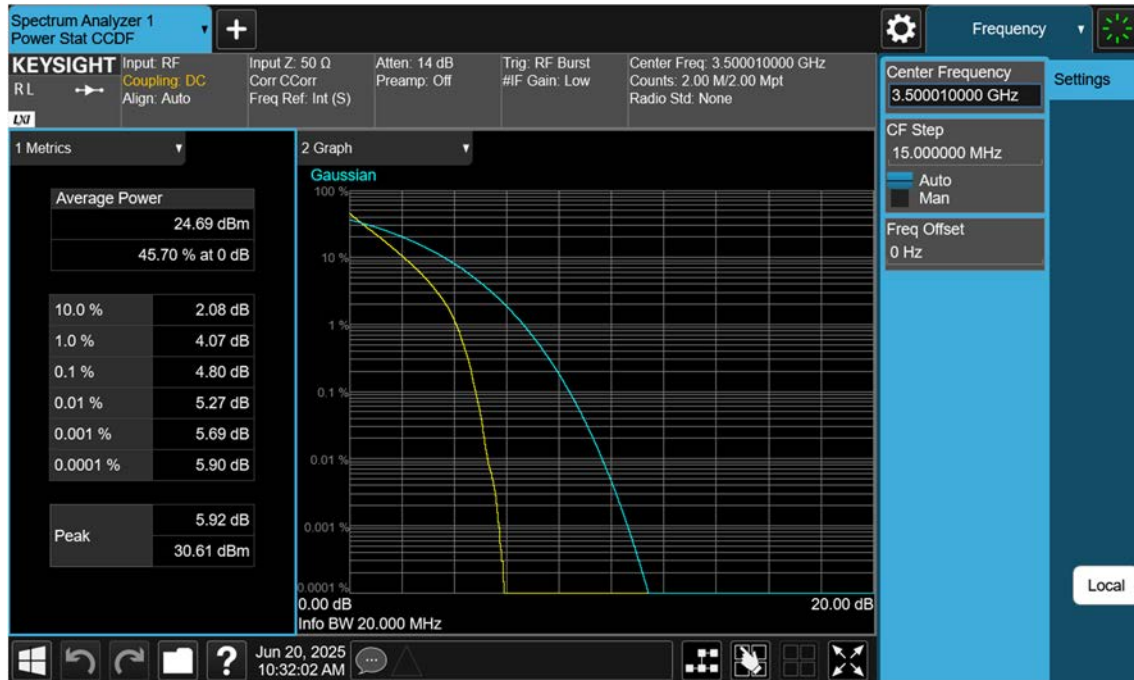
n77(3450~3550 MHz)_15 M_PAR_Mid_64QAM_FullRB



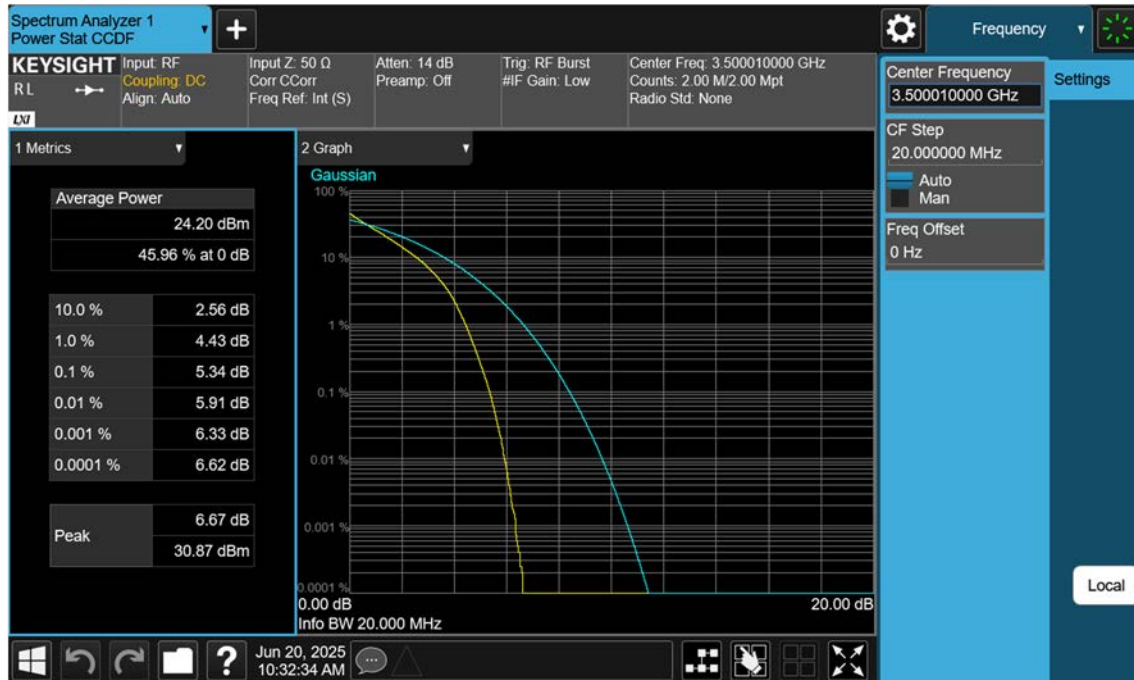
n77(3450~3550 MHz)_15 M_PAR_Mid_256QAM_FullRB



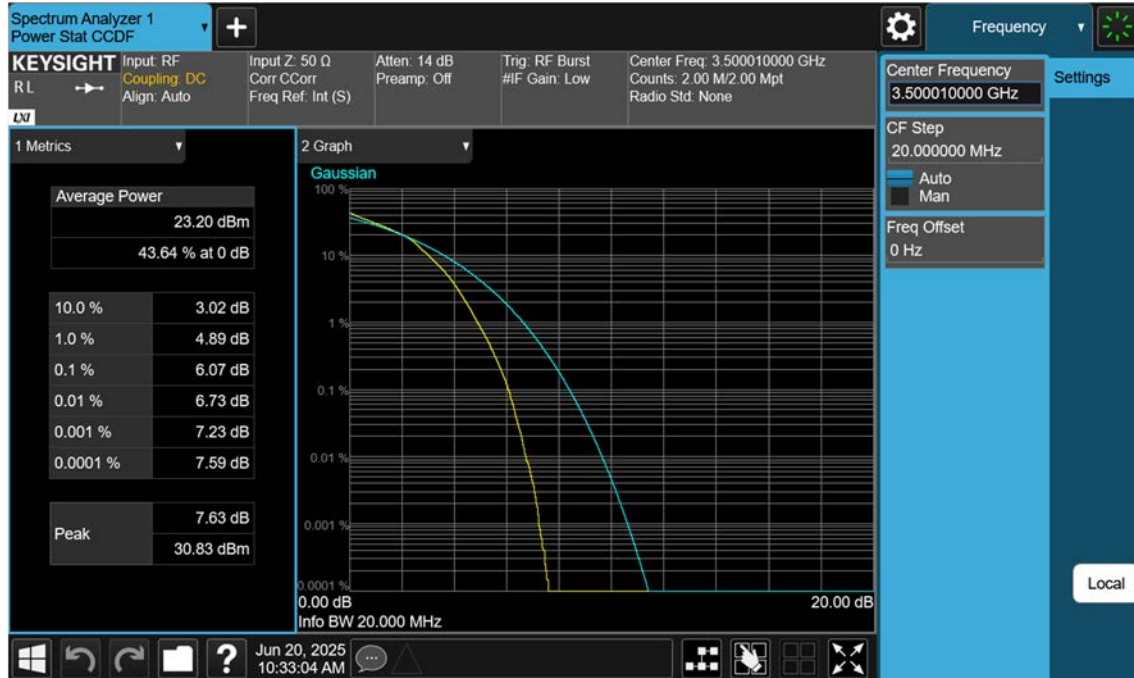
n77(3450~3550 MHz)_20 M_PAR_Mid_BPSK_FullRB



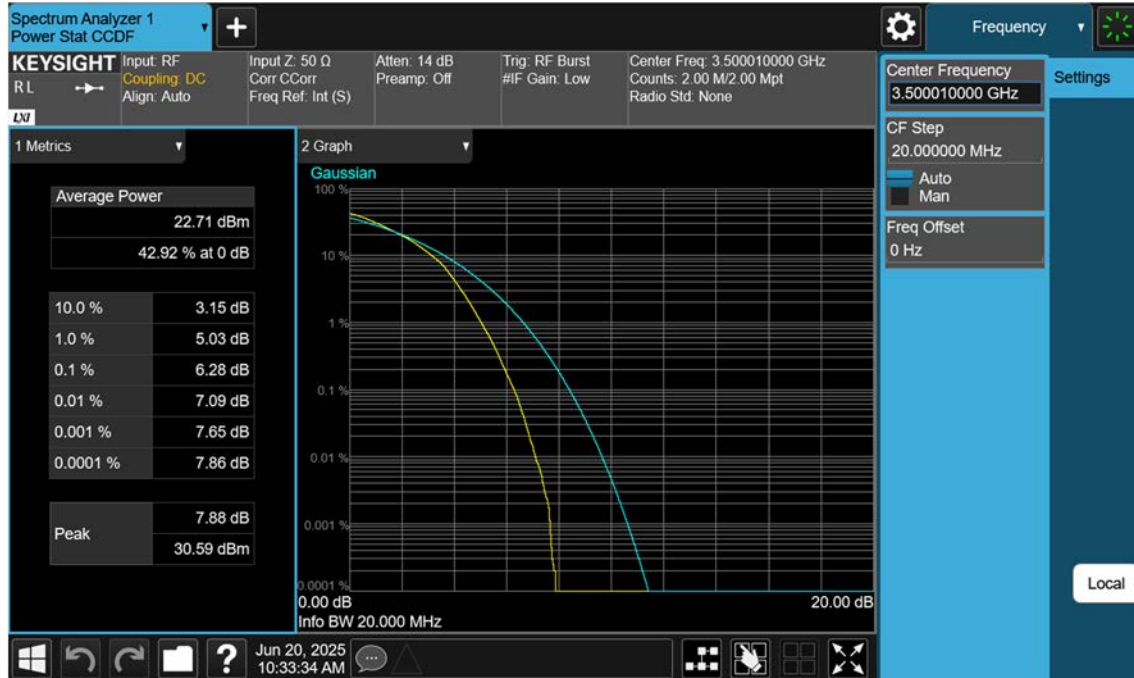
n77(3450~3550 MHz)_20 M_PAR_Mid_QPSK_FullRB



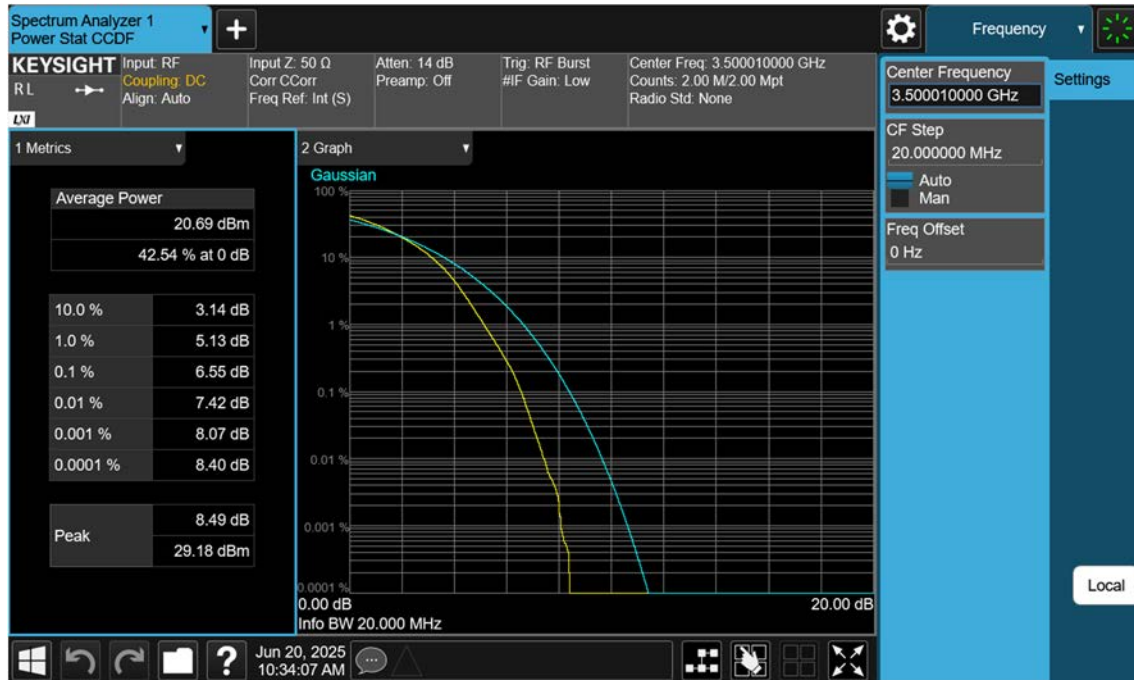
n77(3450~3550 MHz)_20 M_PAR_Mid_16QAM_FullRB



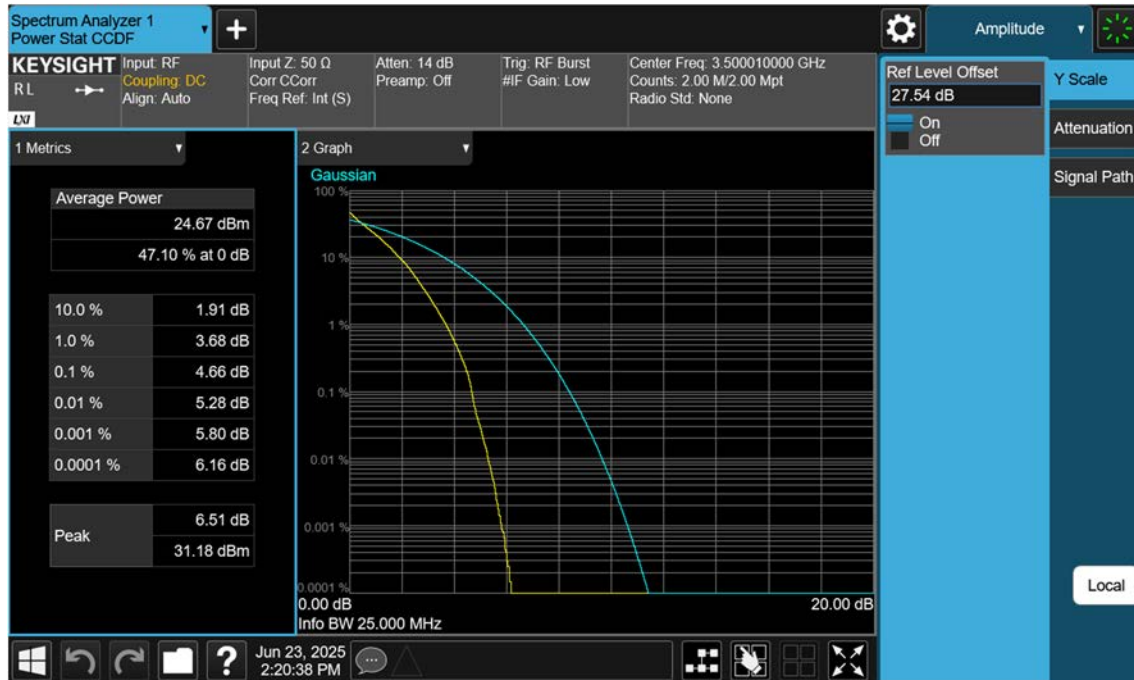
n77(3450~3550 MHz)_20 M_PAR_Mid_64QAM_FullRB



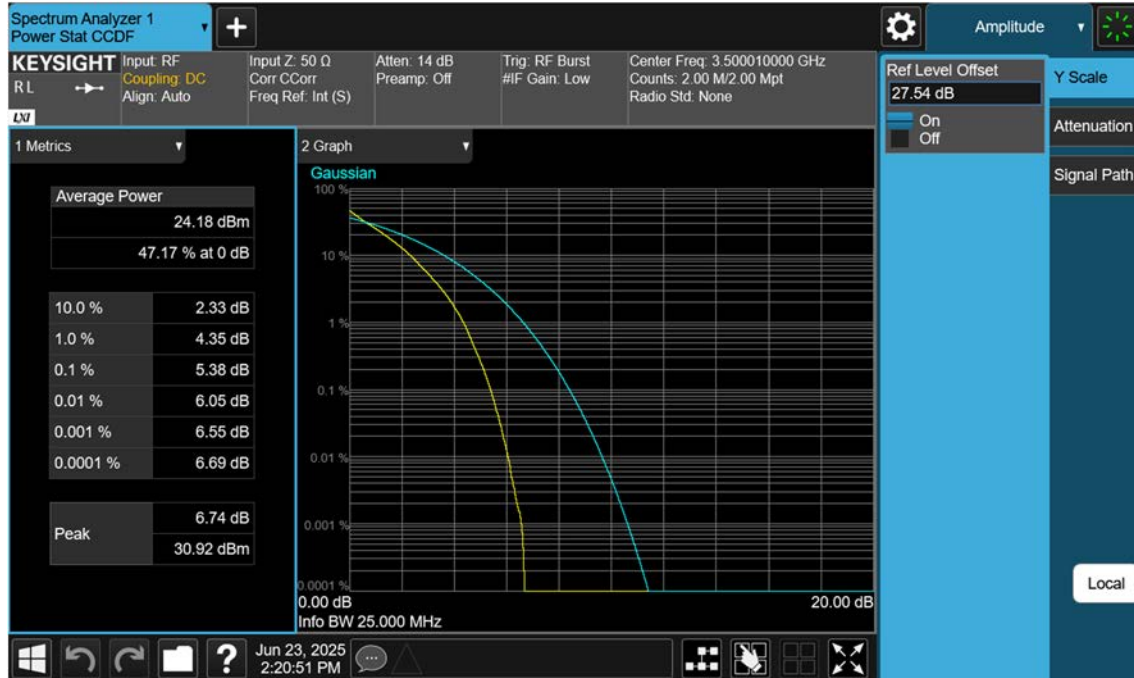
n77(3450~3550 MHz)_20 M_PAR_Mid_256QAM_FullRB



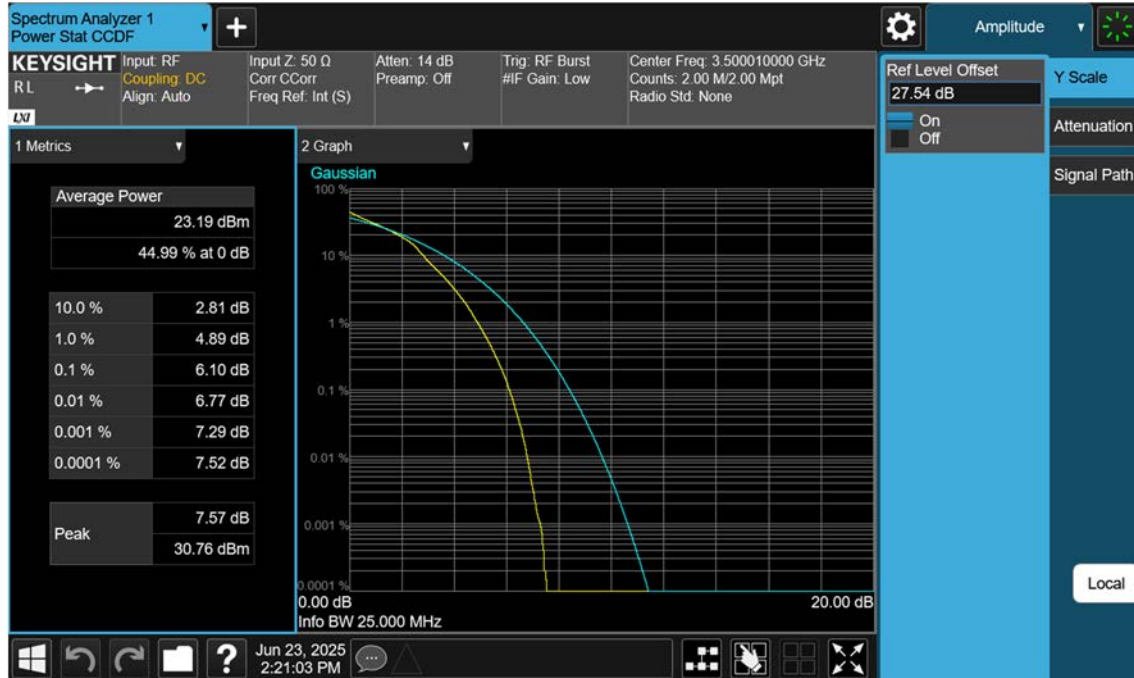
n77(3450~3550 MHz)_25 M_PAR_Mid_BPSK_FullRB



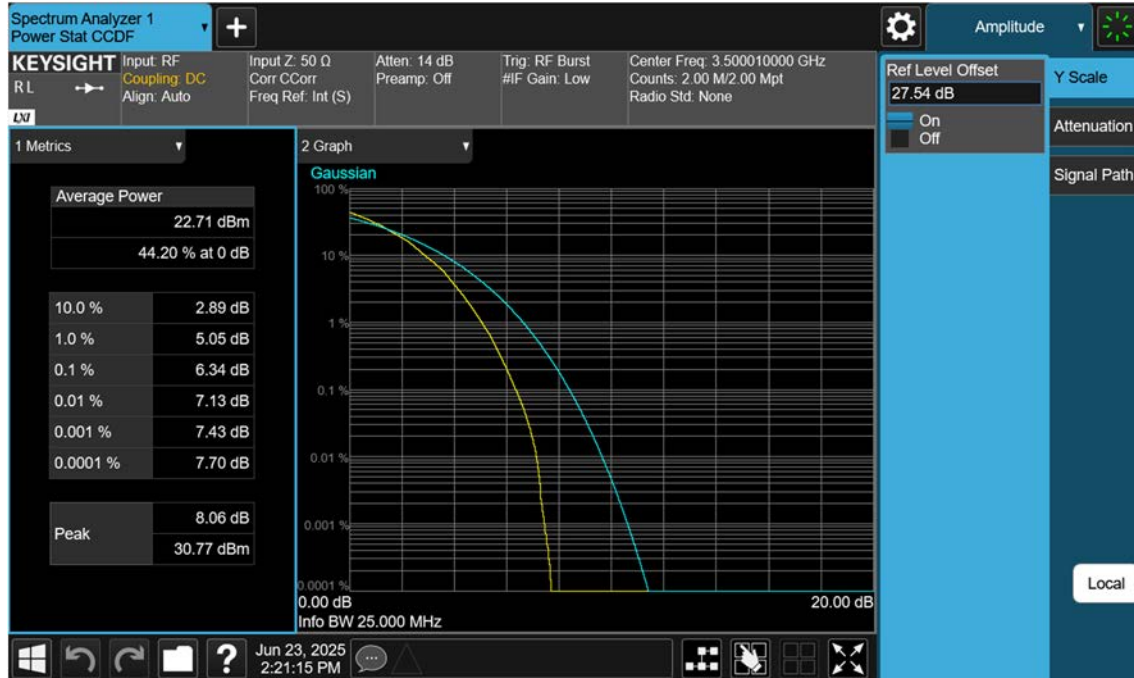
n77(3450~3550 MHz)_25 M_PAR_Mid_QPSK_FullRB



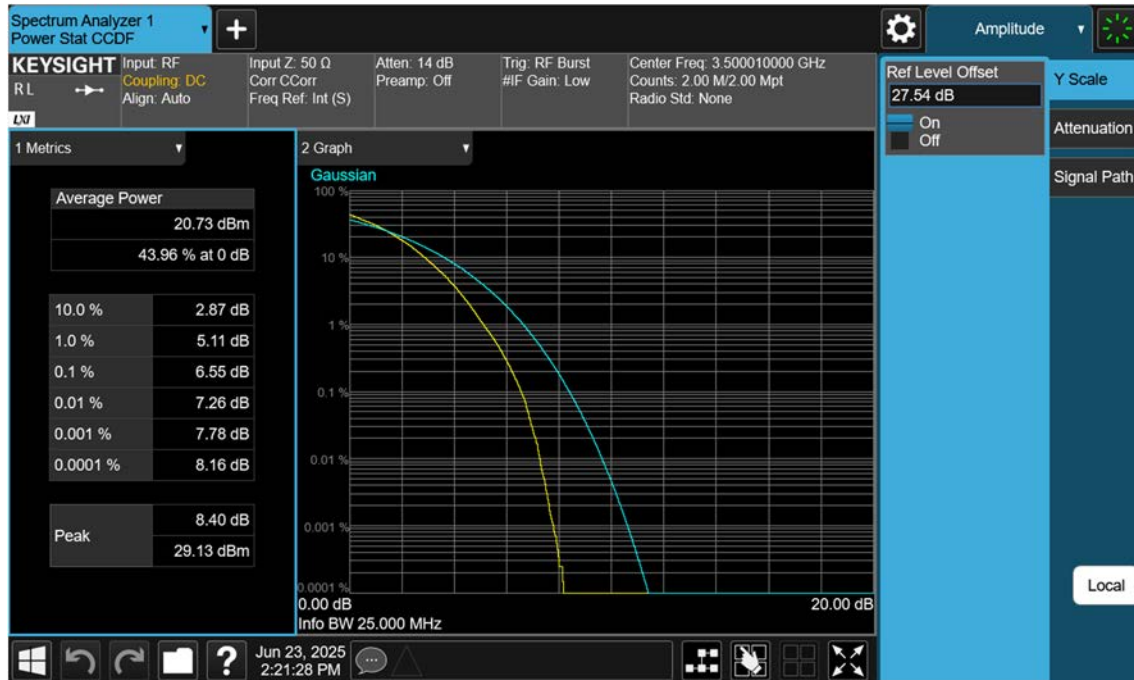
n77(3450~3550 MHz)_25 M_PAR_Mid_16QAM_FullRB



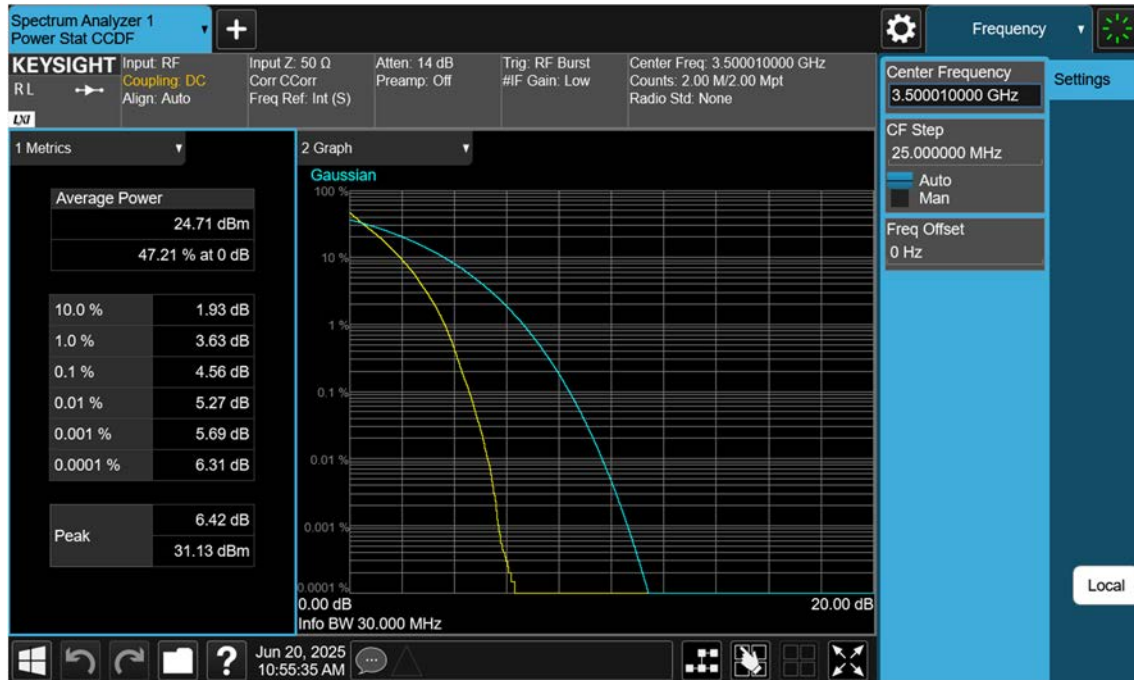
n77(3450~3550 MHz)_25 M_PAR_Mid_64QAM_FullRB



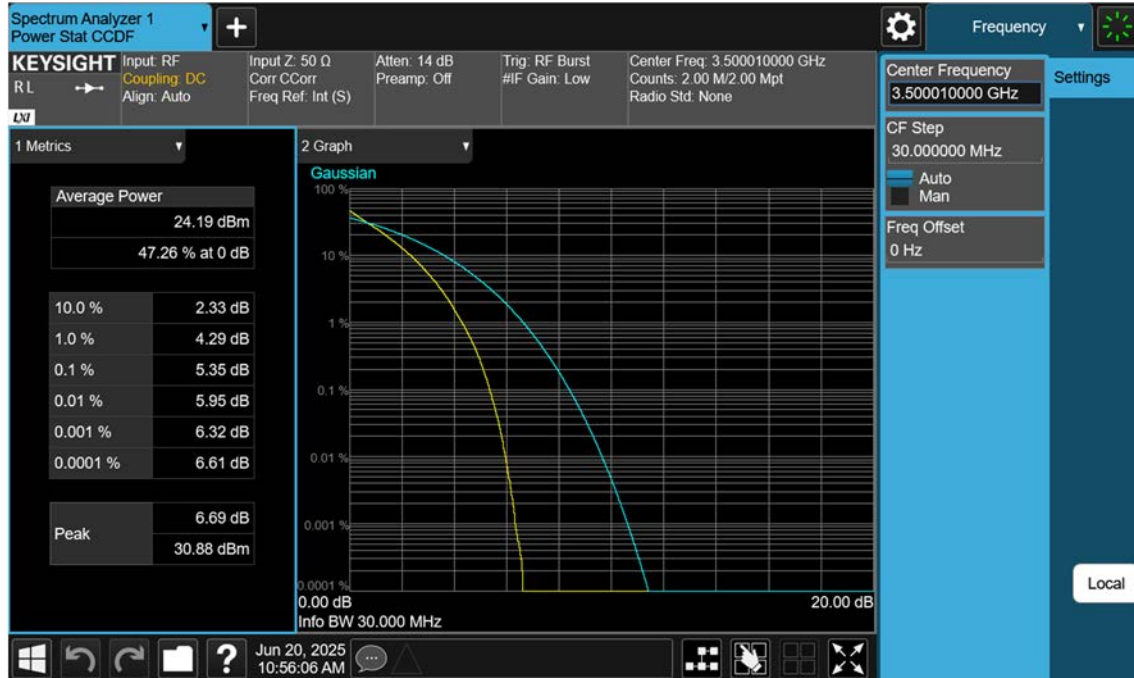
n77(3450~3550 MHz)_25 M_PAR_Mid_256QAM_FullRB



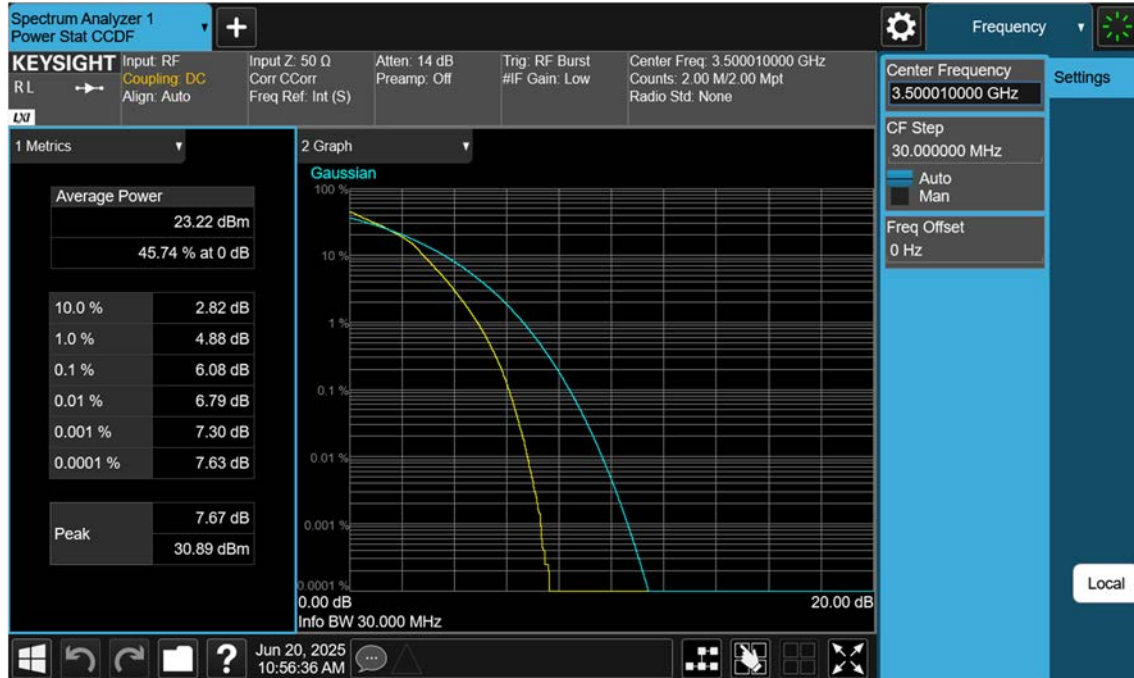
n77(3450~3550 MHz)_30 M_PAR_Mid_BPSK_FullRB



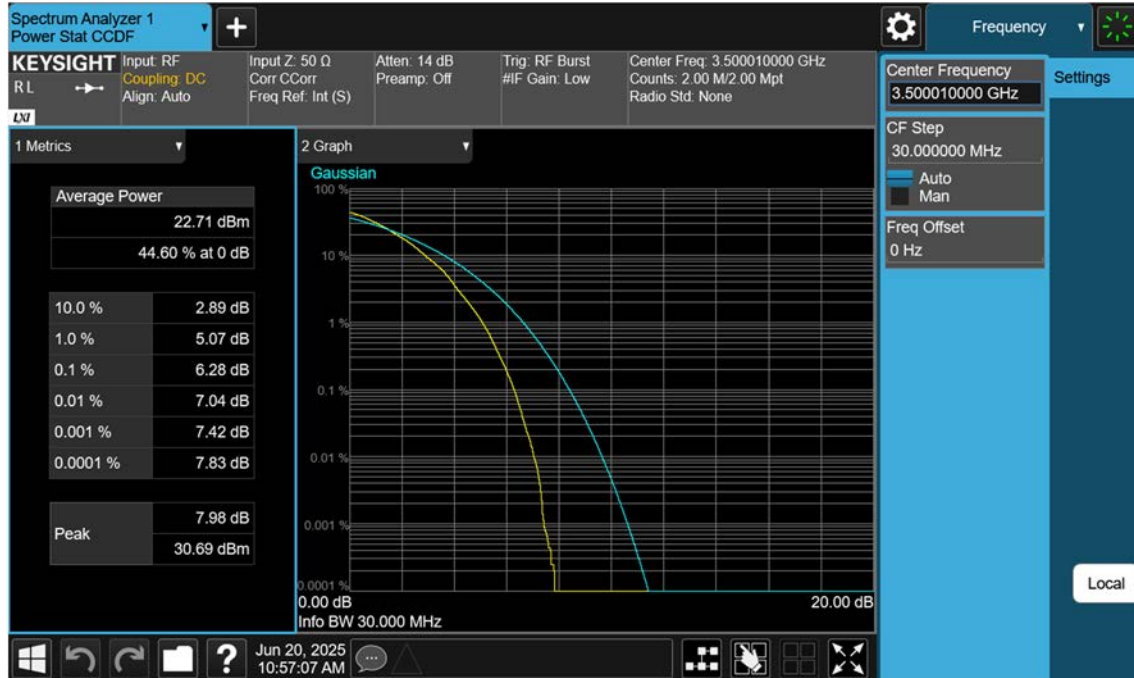
n77(3450~3550 MHz)_30 M_PAR_Mid_QPSK_FullRB



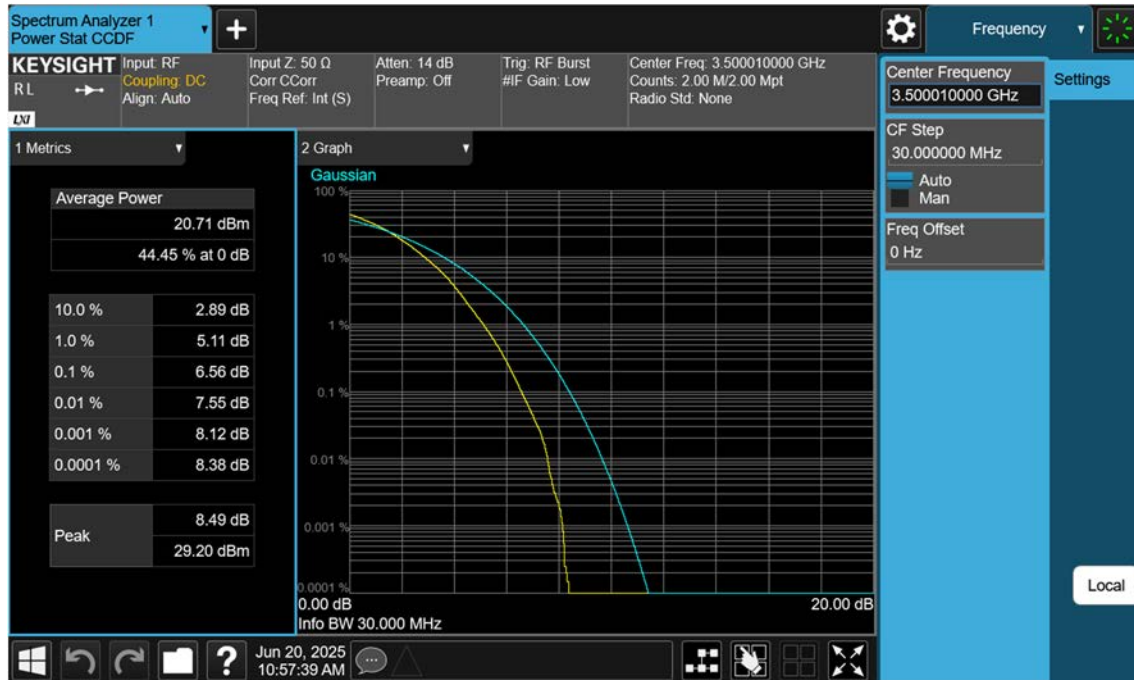
n77(3450~3550 MHz)_30 M_PAR_Mid_16QAM_FullRB



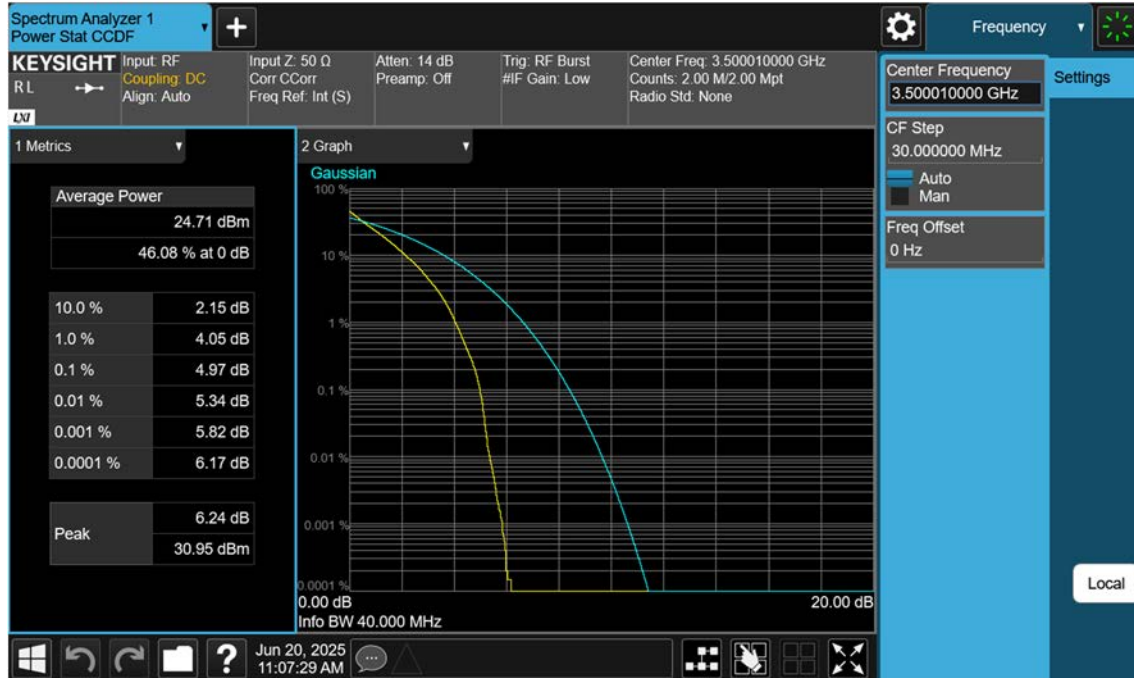
n77(3450~3550 MHz)_30 M_PAR_Mid_64QAM_FullRB



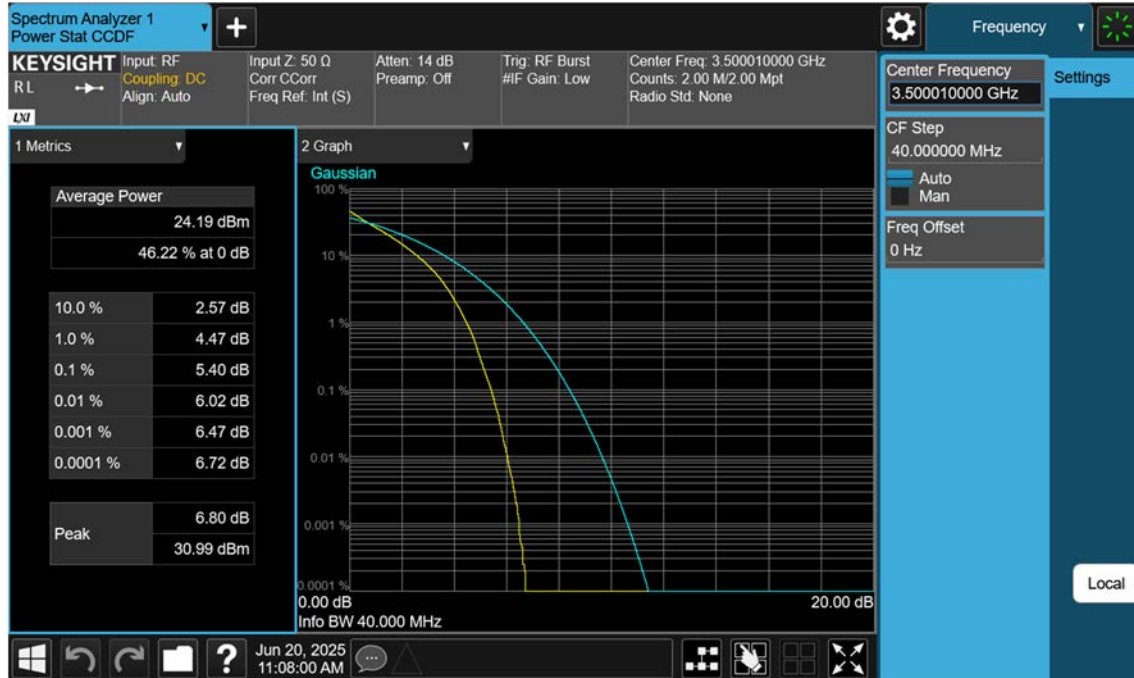
n77(3450~3550 MHz)_30 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_40 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_40 M_PAR_Mid_QPSK_FullRB



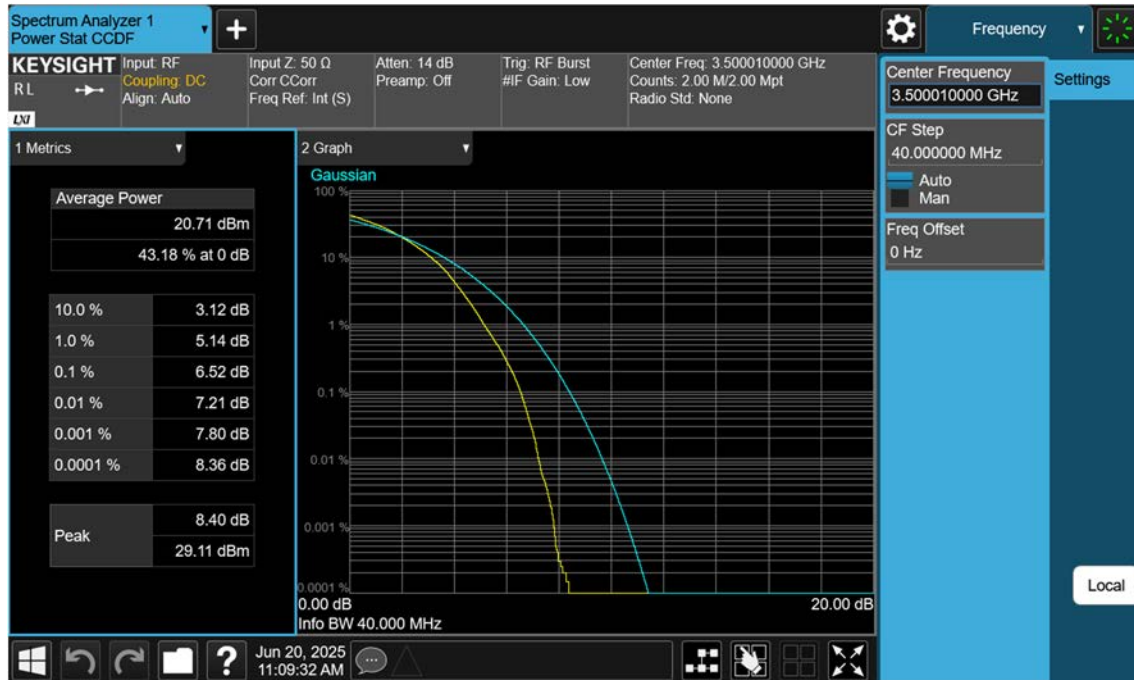
n77(3450~3550 MHz)_40 M_PAR_Mid_16QAM_FullRB



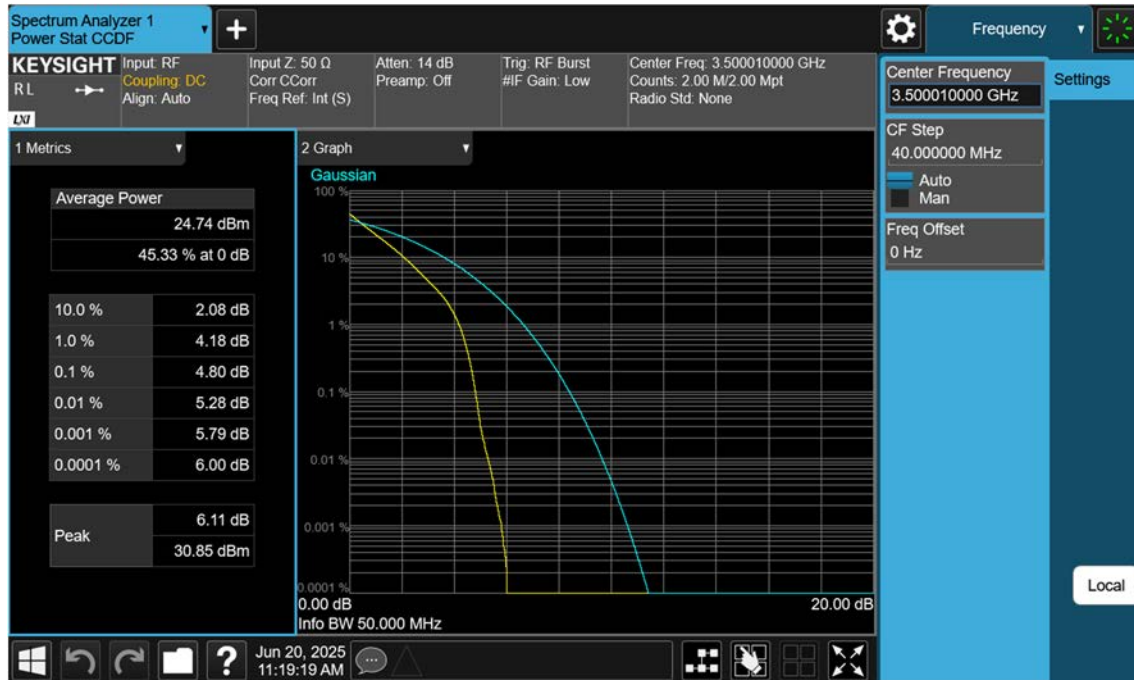
n77(3450~3550 MHz)_40 M_PAR_Mid_64QAM_FullRB



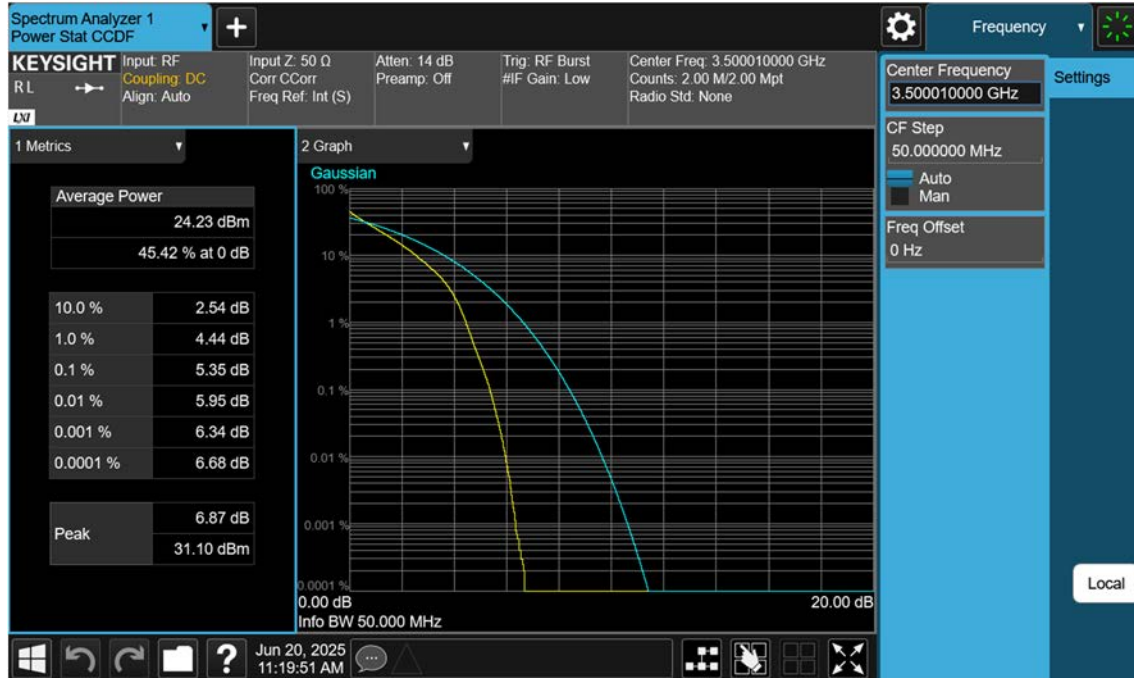
n77(3450~3550 MHz)_40 M_PAR_Mid_256QAM_FullRB



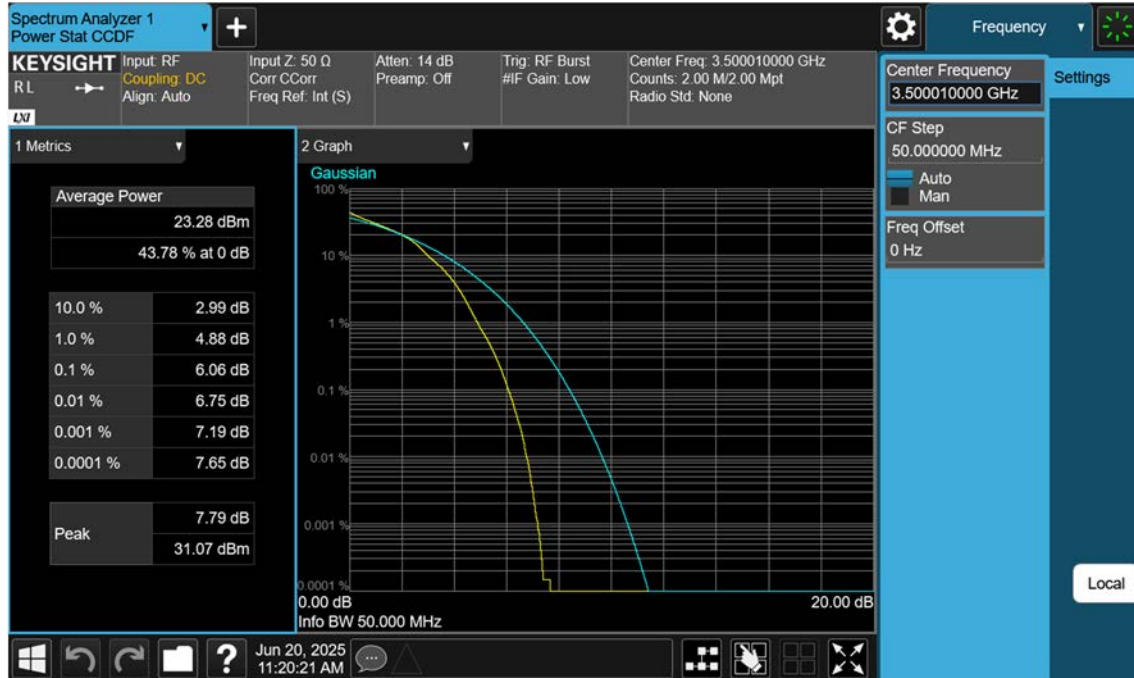
n77(3450~3550 MHz)_50 M_PAR_Mid_BPSK_FullRB



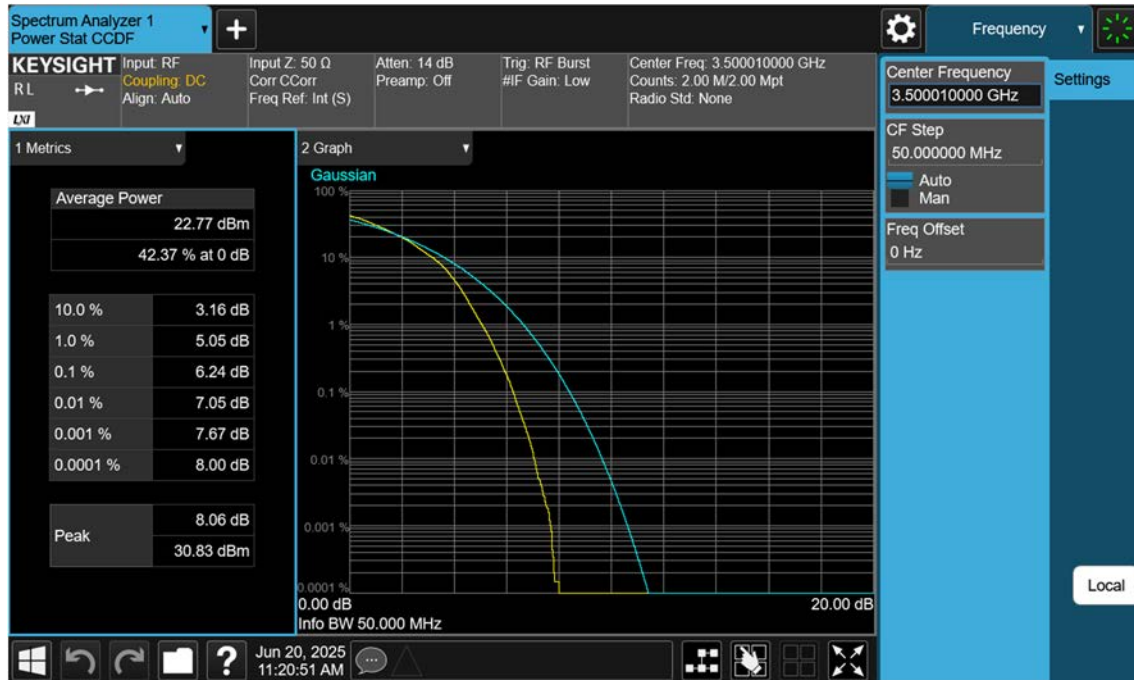
n77(3450~3550 MHz)_50 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_50 M_PAR_Mid_16QAM_FullRB



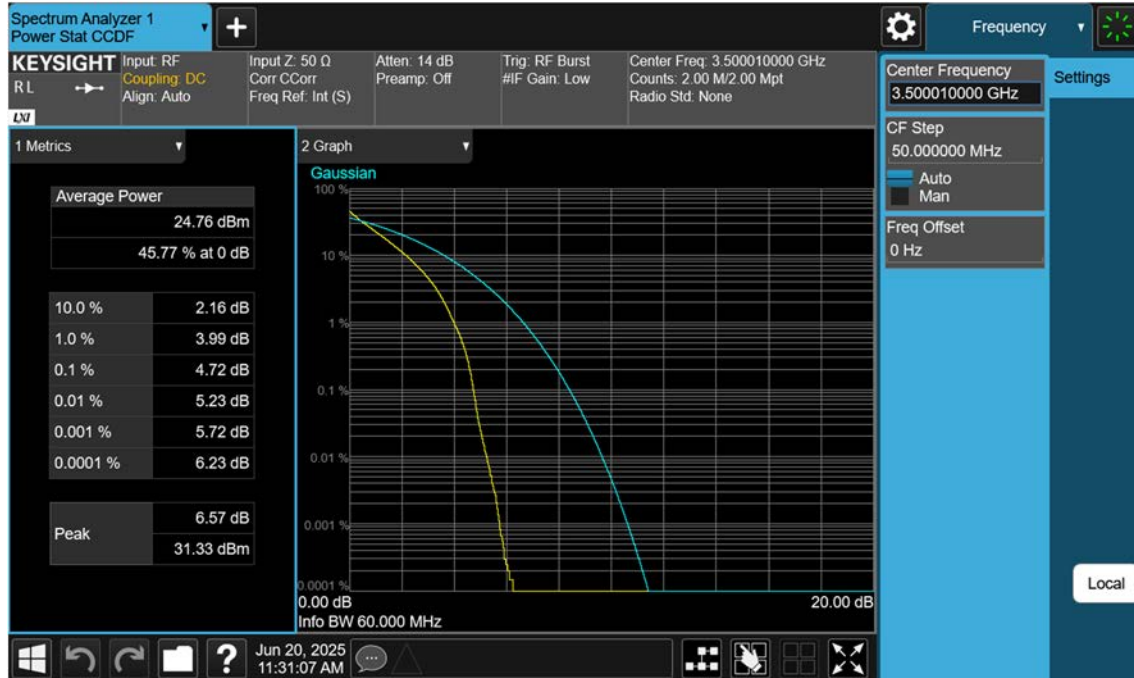
n77(3450~3550 MHz)_50 M_PAR_Mid_64QAM_FullRB



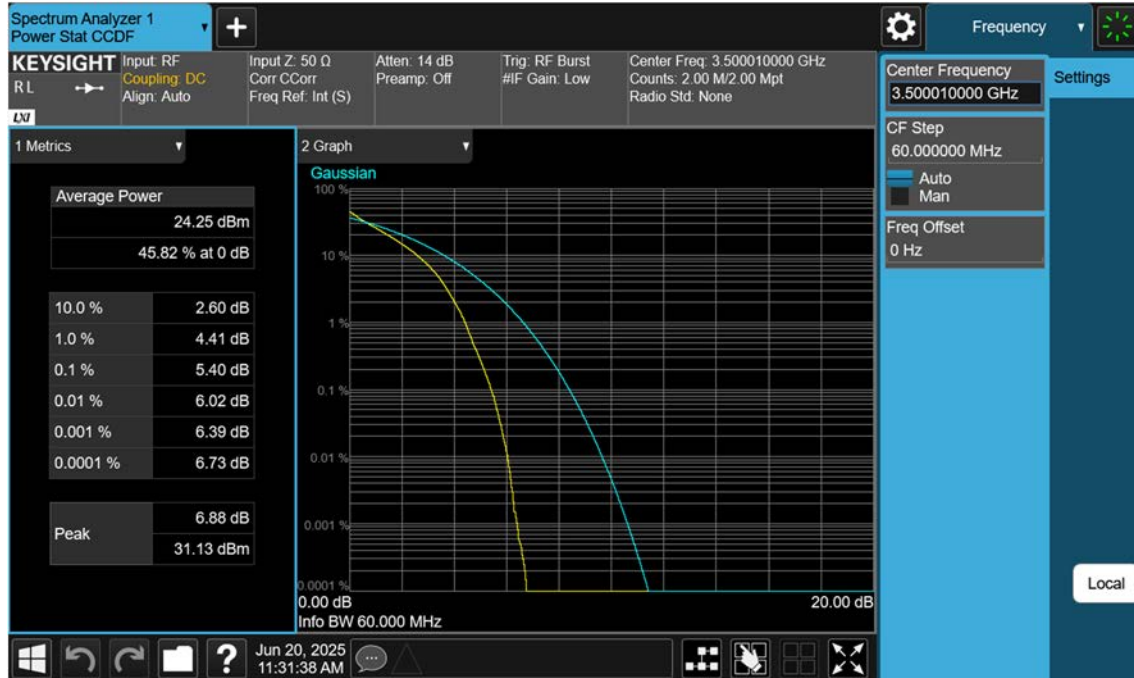
n77(3450~3550 MHz)_50 M_PAR_Mid_256QAM_FullRB



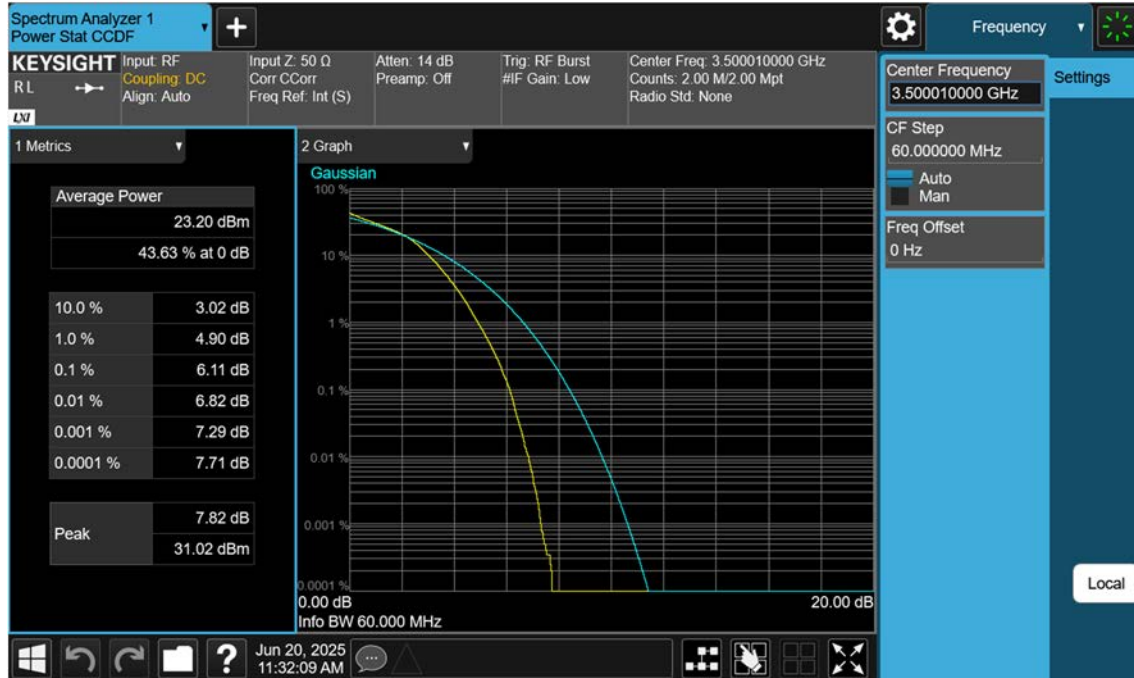
n77(3450~3550 MHz)_60 M_PAR_Mid_BPSK_FullRB



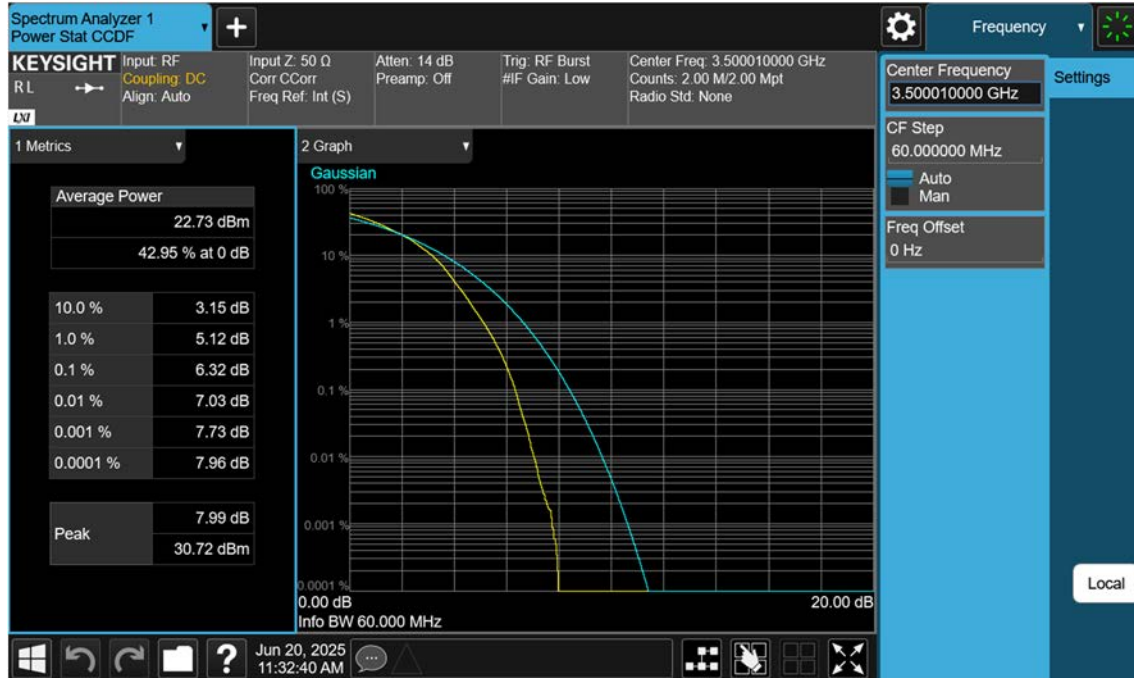
n77(3450~3550 MHz)_60 M_PAR_Mid_QPSK_FullRB



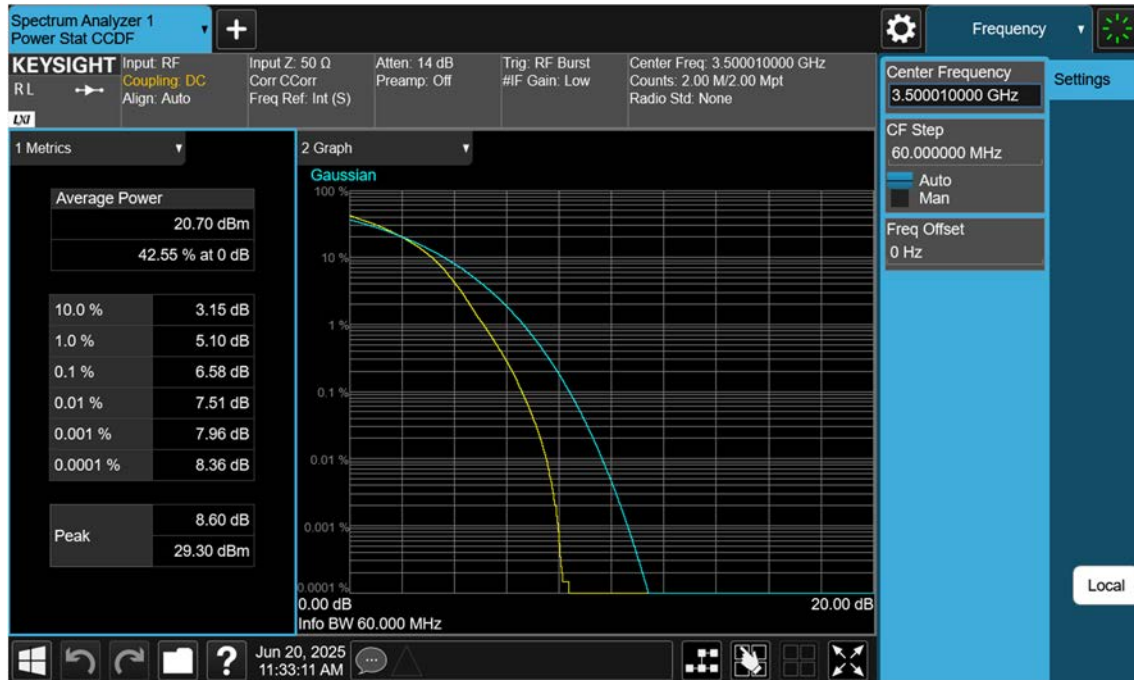
n77(3450~3550 MHz)_60 M_PAR_Mid_16QAM_FullRB



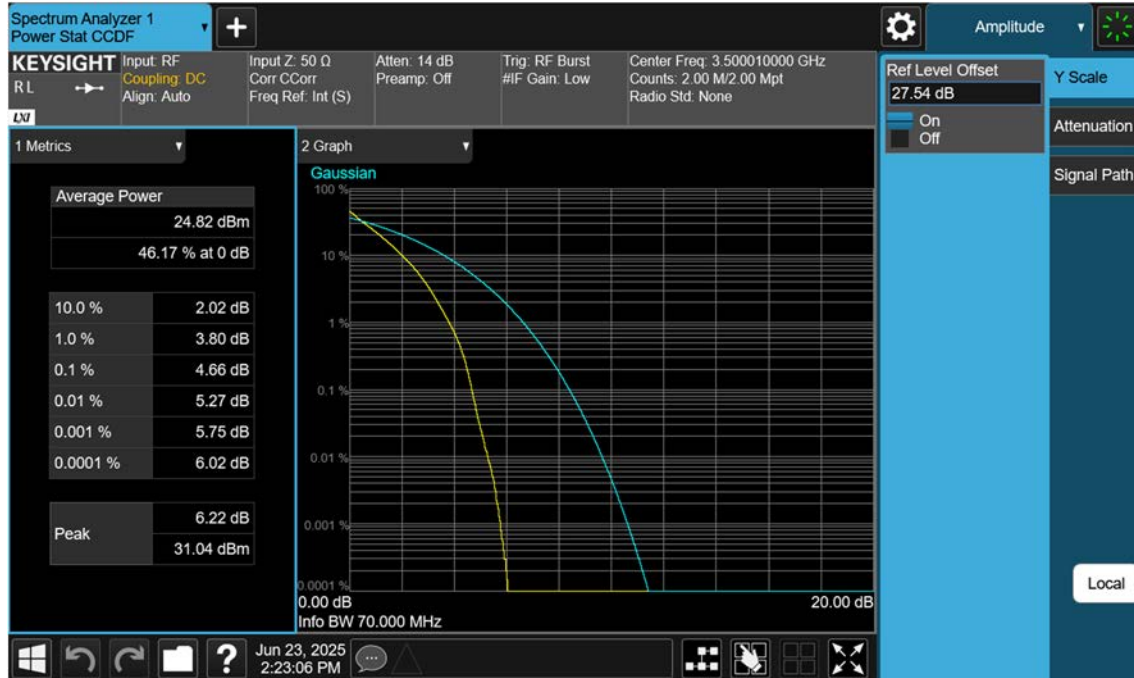
n77(3450~3550 MHz)_60 M_PAR_Mid_64QAM_FullRB



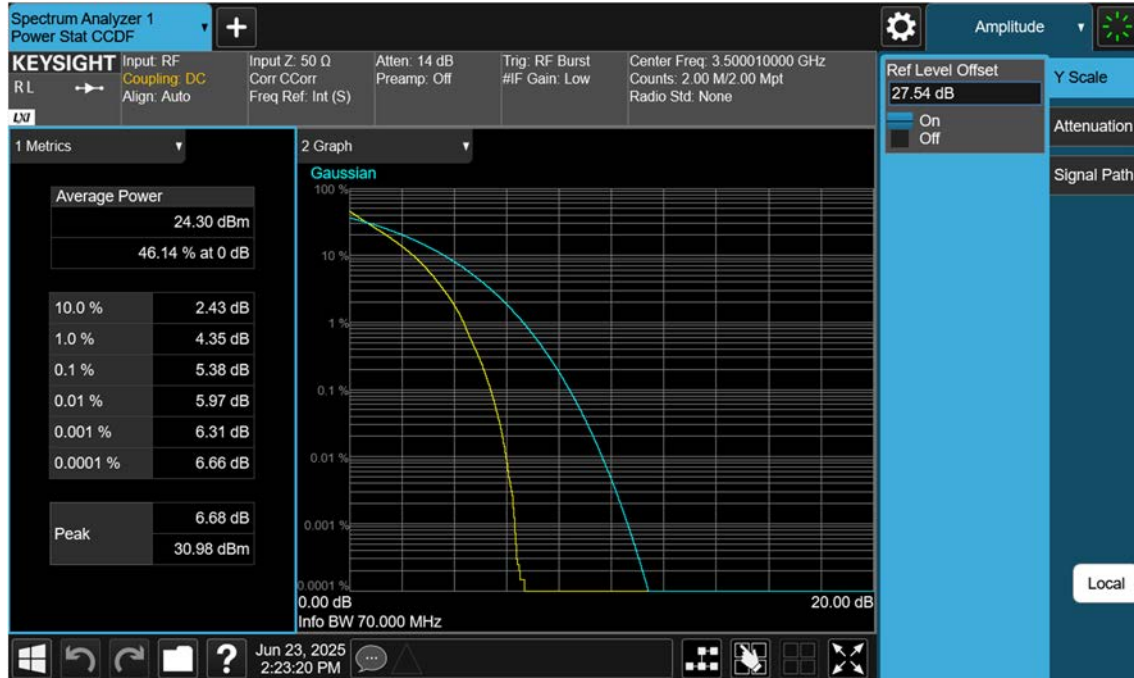
n77(3450~3550 MHz)_60 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_70 M_PAR_Mid_BPSK_FullRB



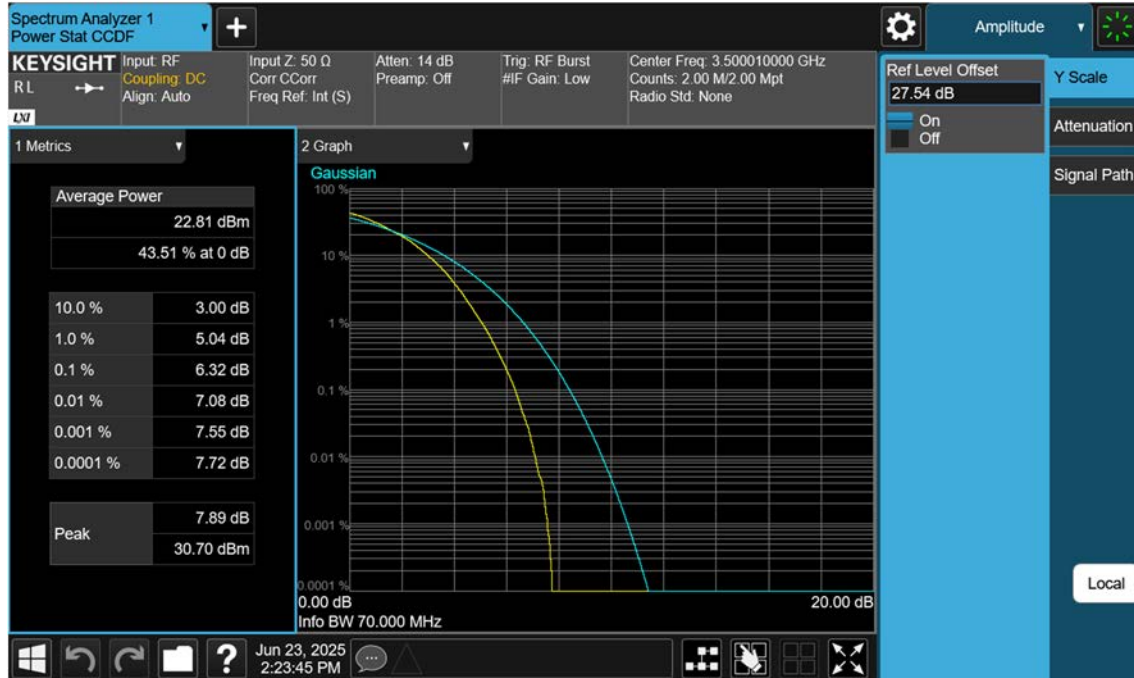
n77(3450~3550 MHz)_70 M_PAR_Mid_QPSK_FullRB



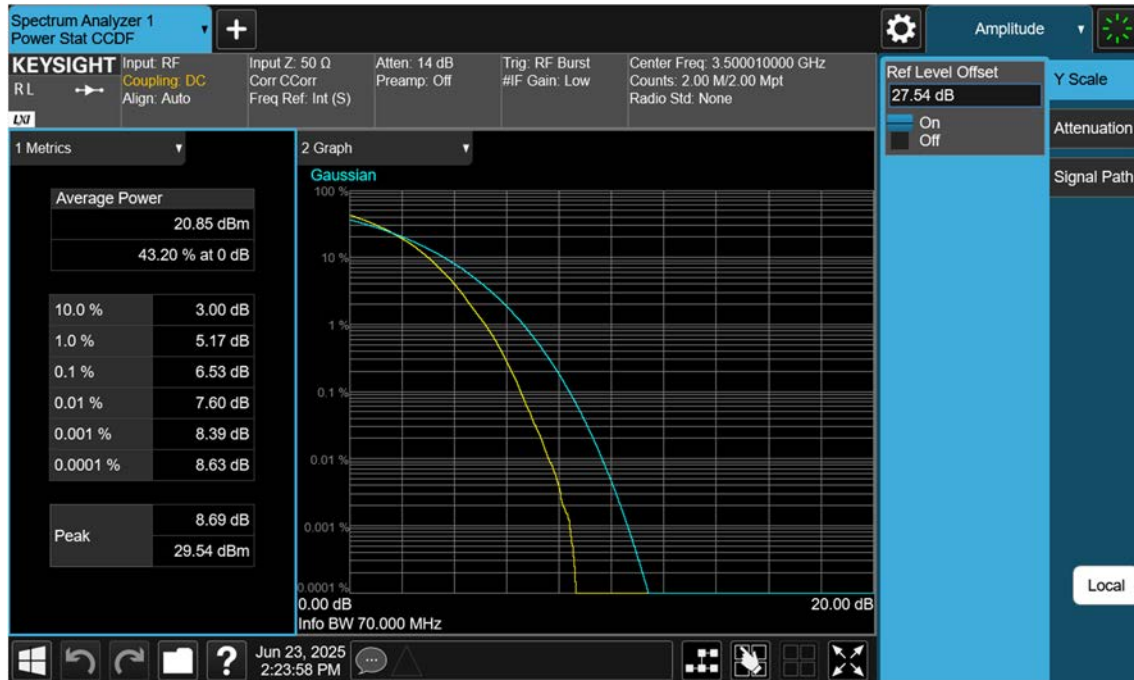
n77(3450~3550 MHz)_70 M_PAR_Mid_16QAM_FullRB



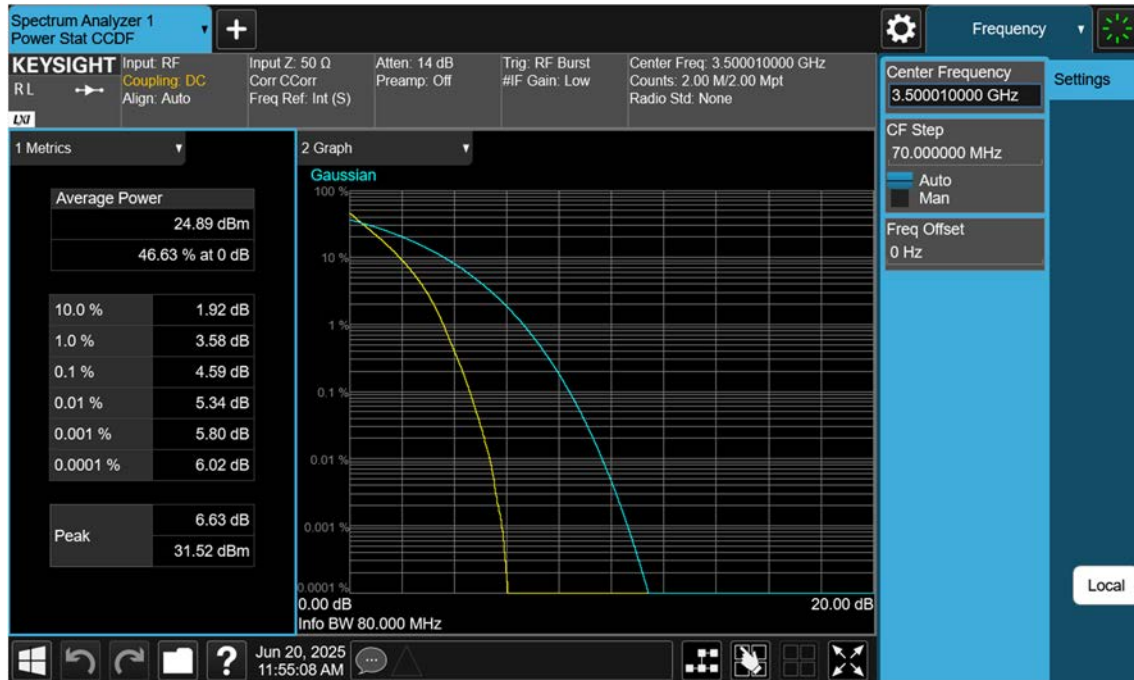
n77(3450~3550 MHz)_70 M_PAR_Mid_64QAM_FullRB



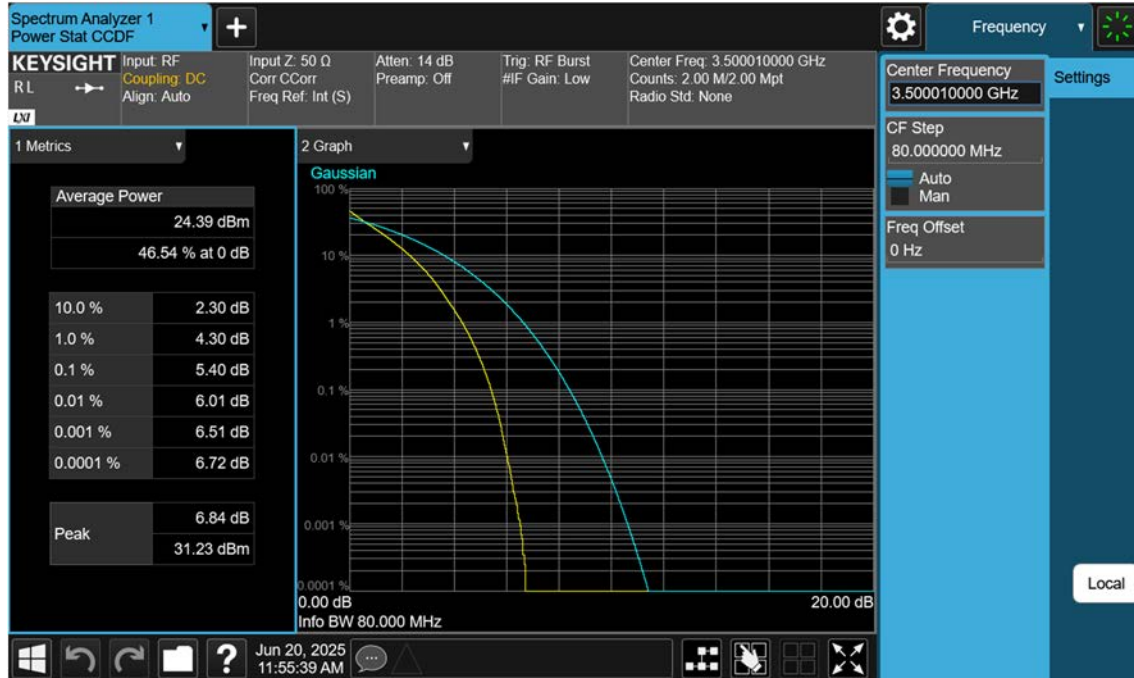
n77(3450~3550 MHz)_70 M_PAR_Mid_256QAM_FullRB



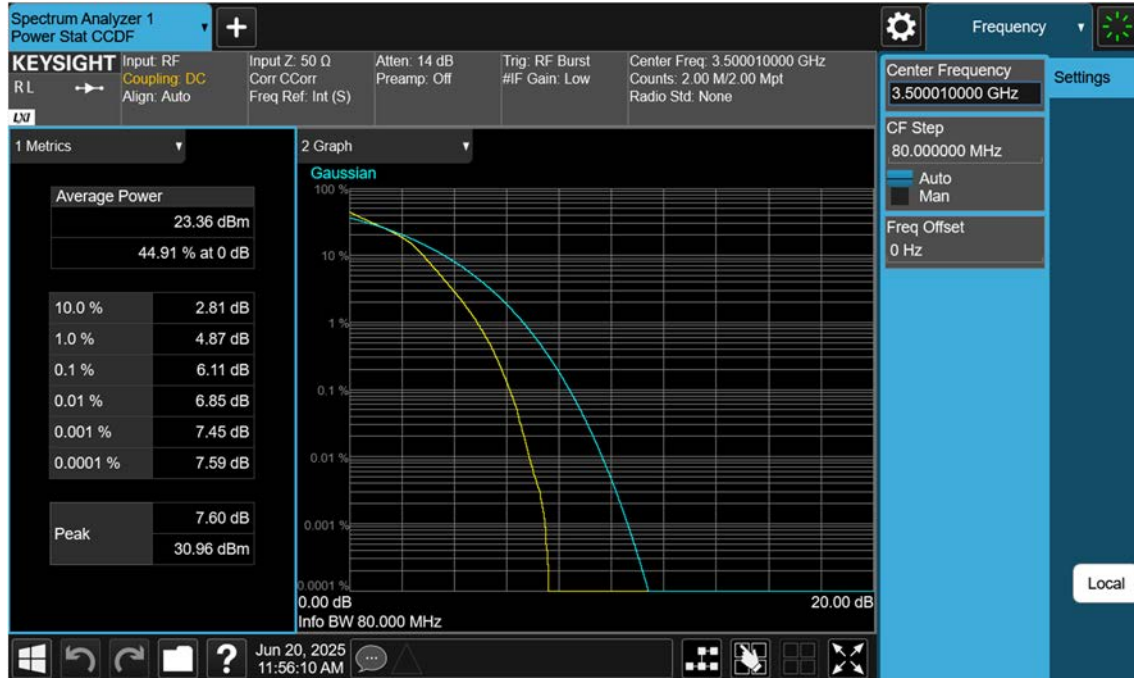
n77(3450~3550 MHz)_80 M_PAR_Mid_BPSK_FullRB



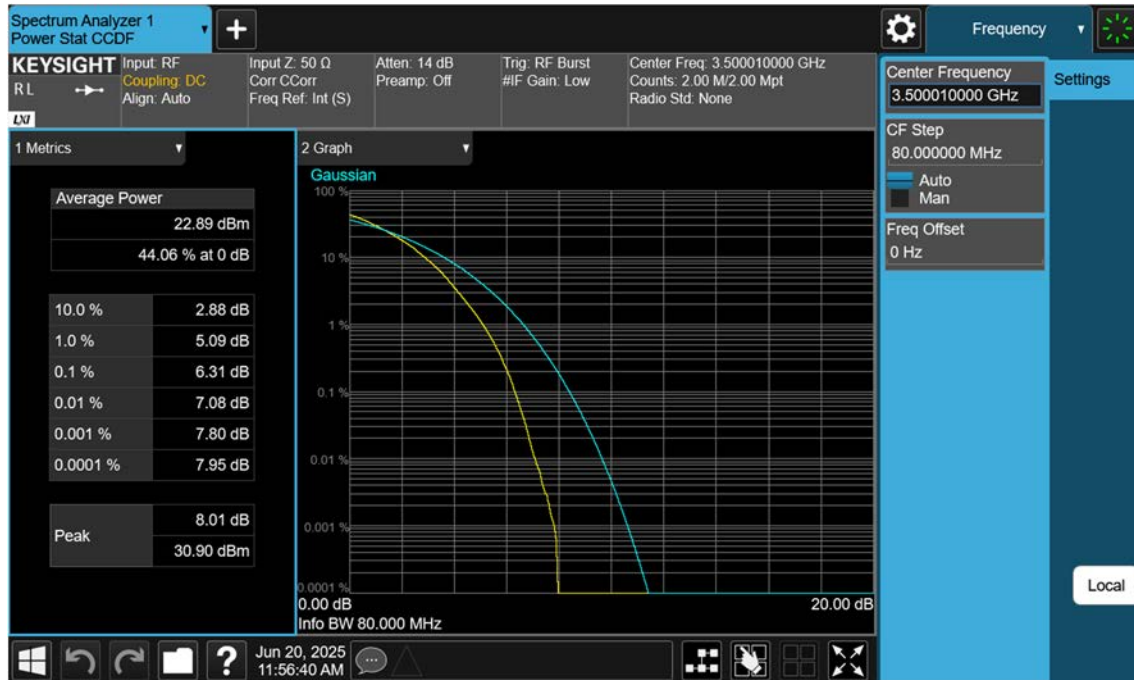
n77(3450~3550 MHz)_80 M_PAR_Mid_QPSK_FullRB



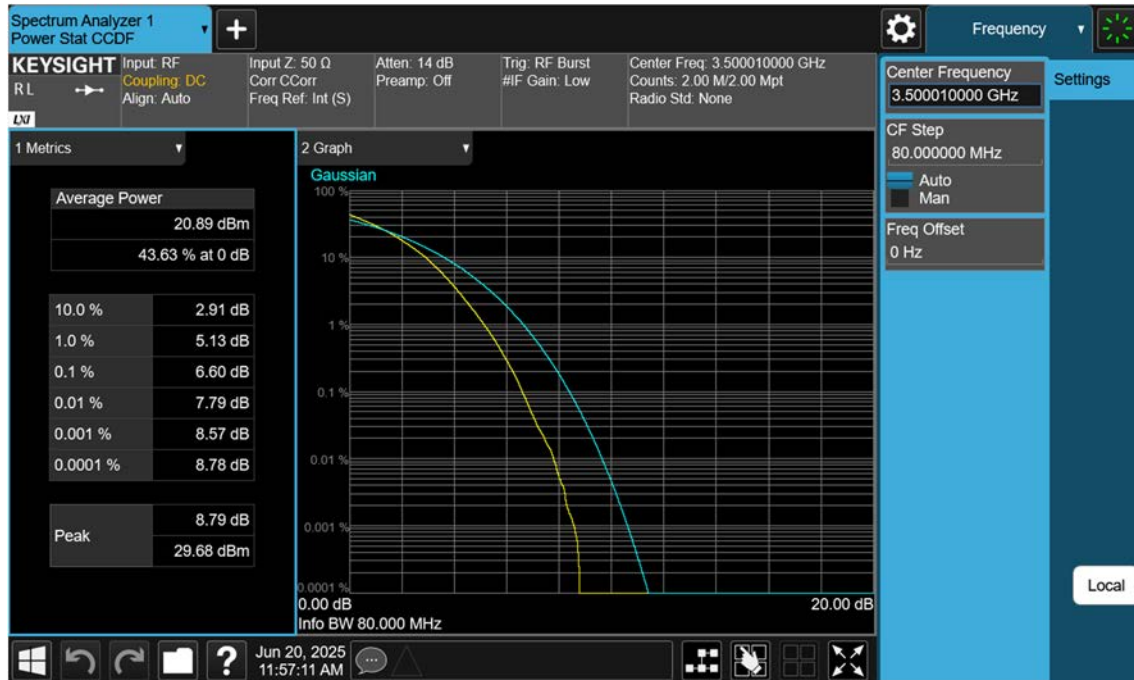
n77(3450~3550 MHz)_80 M_PAR_Mid_16QAM_FullRB



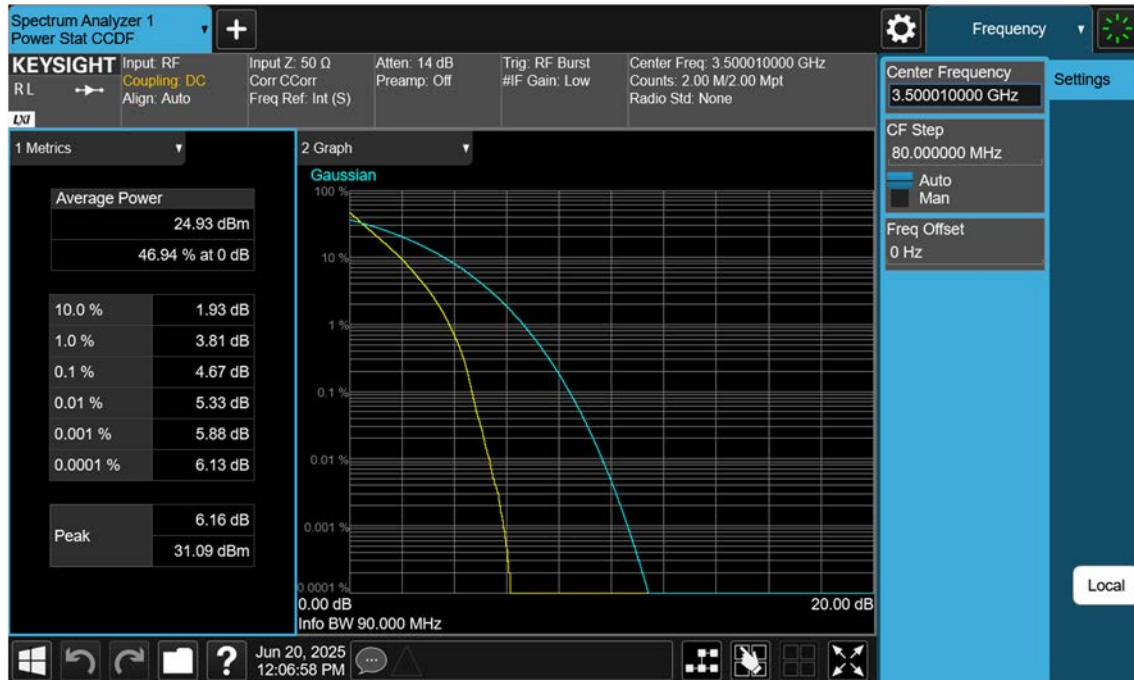
n77(3450~3550 MHz)_80 M_PAR_Mid_64QAM_FullRB



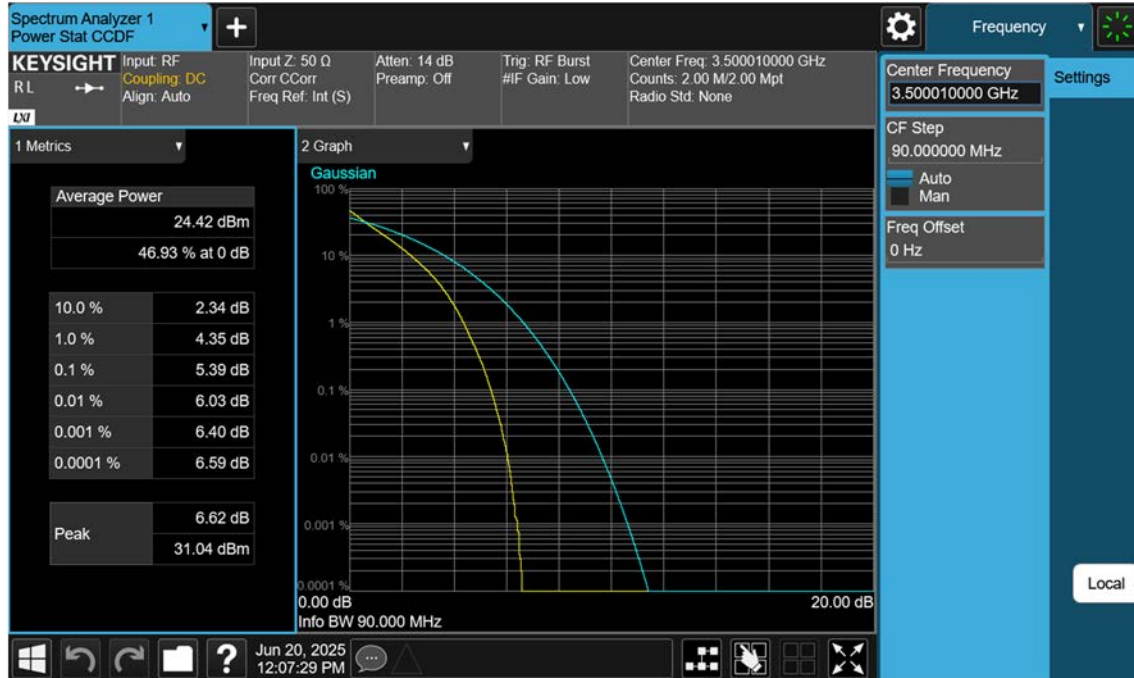
n77(3450~3550 MHz)_80 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_90 M_PAR_Mid_BPSK_FullRB



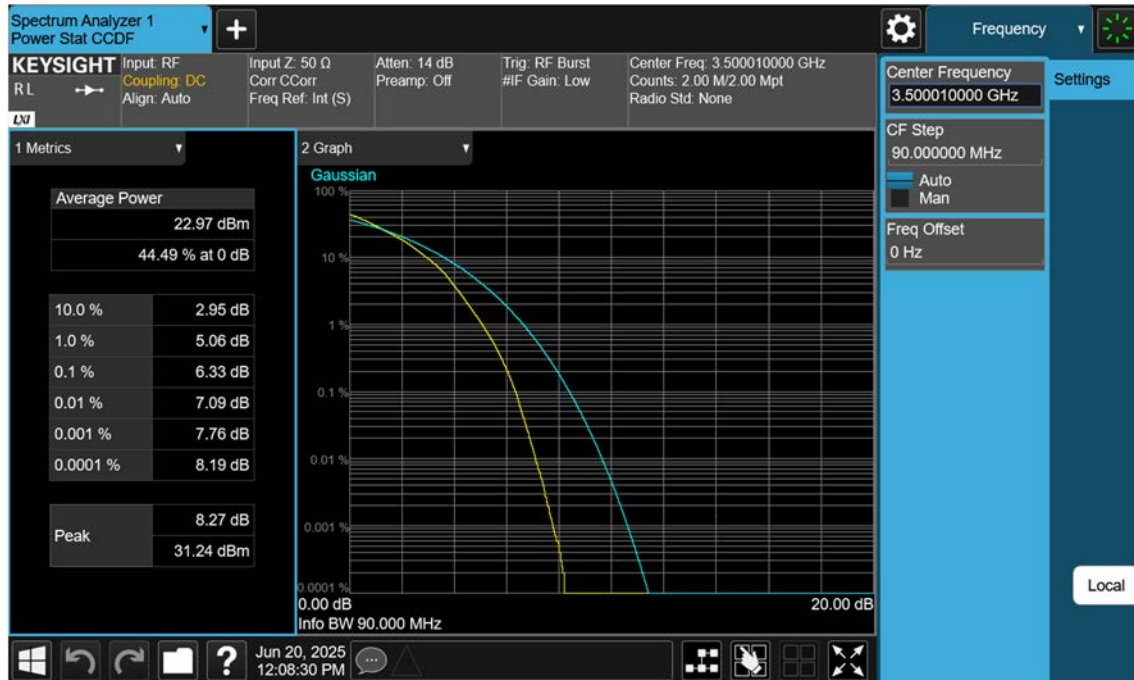
n77(3450~3550 MHz)_90 M_PAR_Mid_QPSK_FullRB



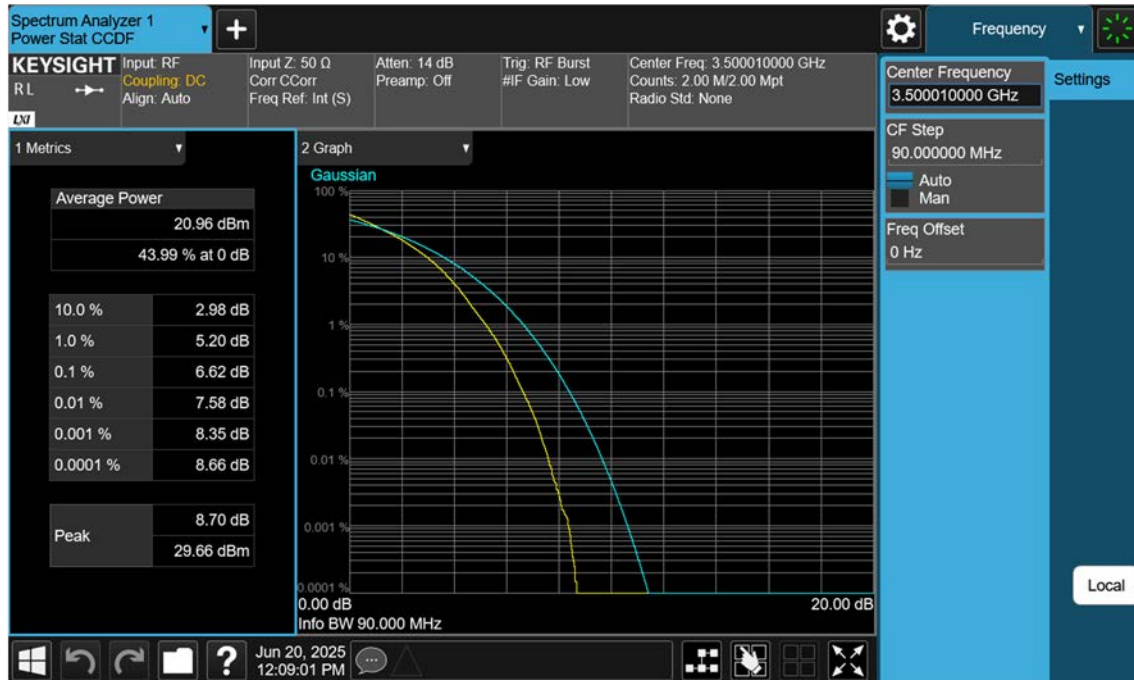
n77(3450~3550 MHz)_90 M_PAR_Mid_16QAM_FullRB



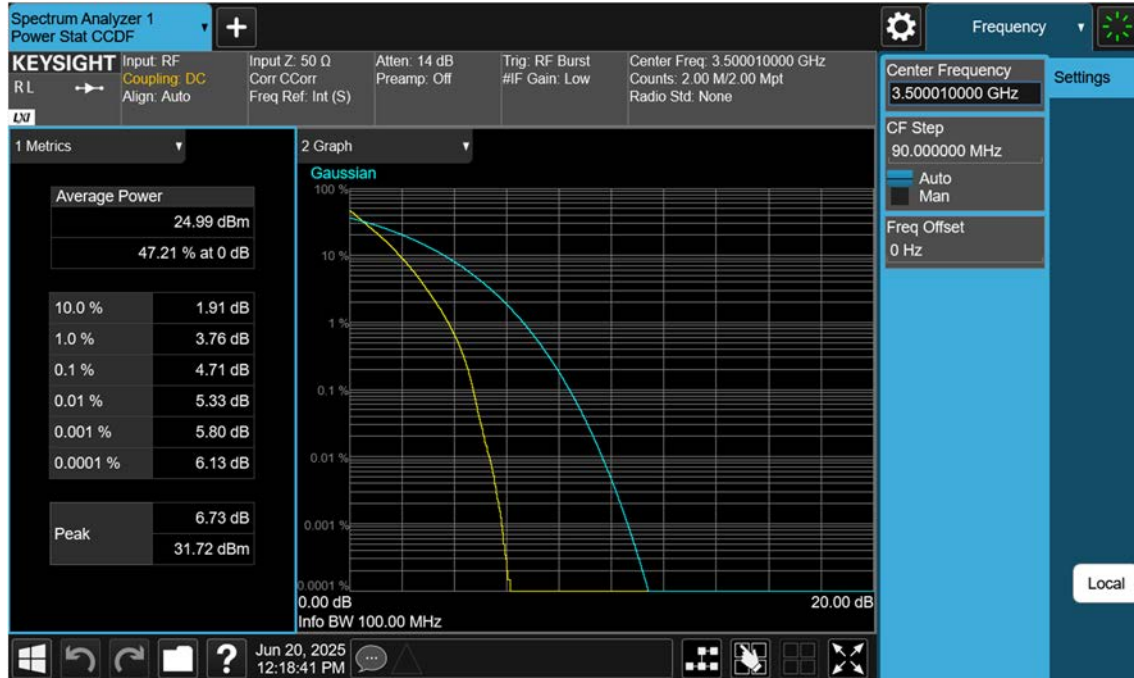
n77(3450~3550 MHz)_90 M_PAR_Mid_64QAM_FullRB



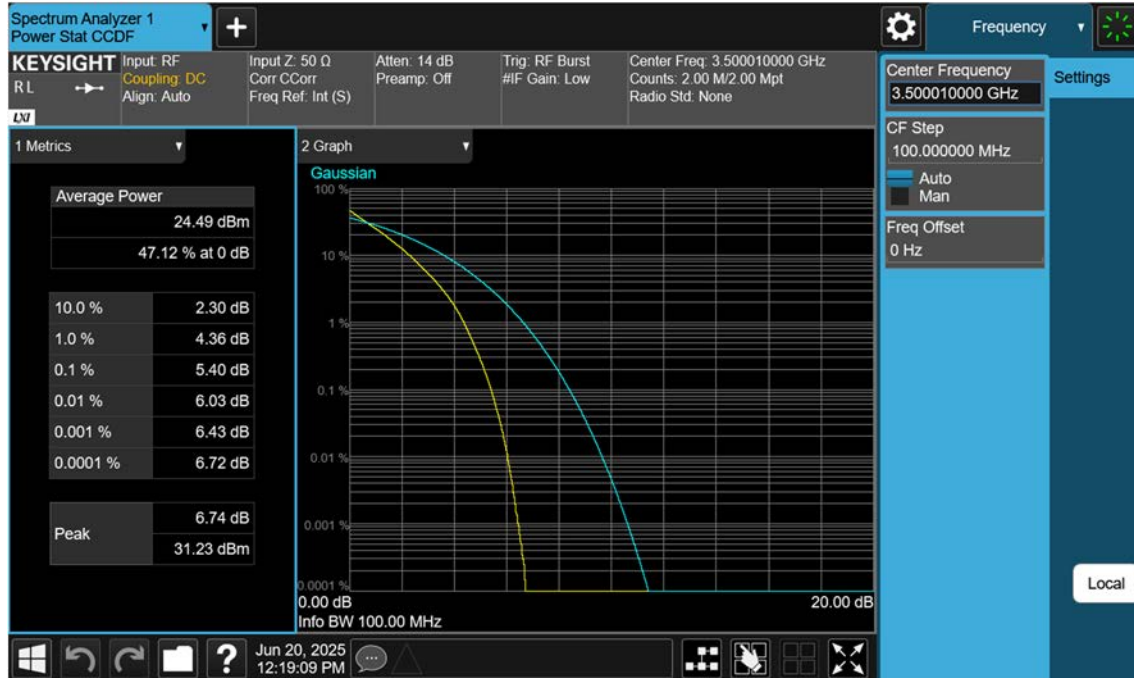
n77(3450~3550 MHz)_90 M_PAR_Mid_256QAM_FullRB



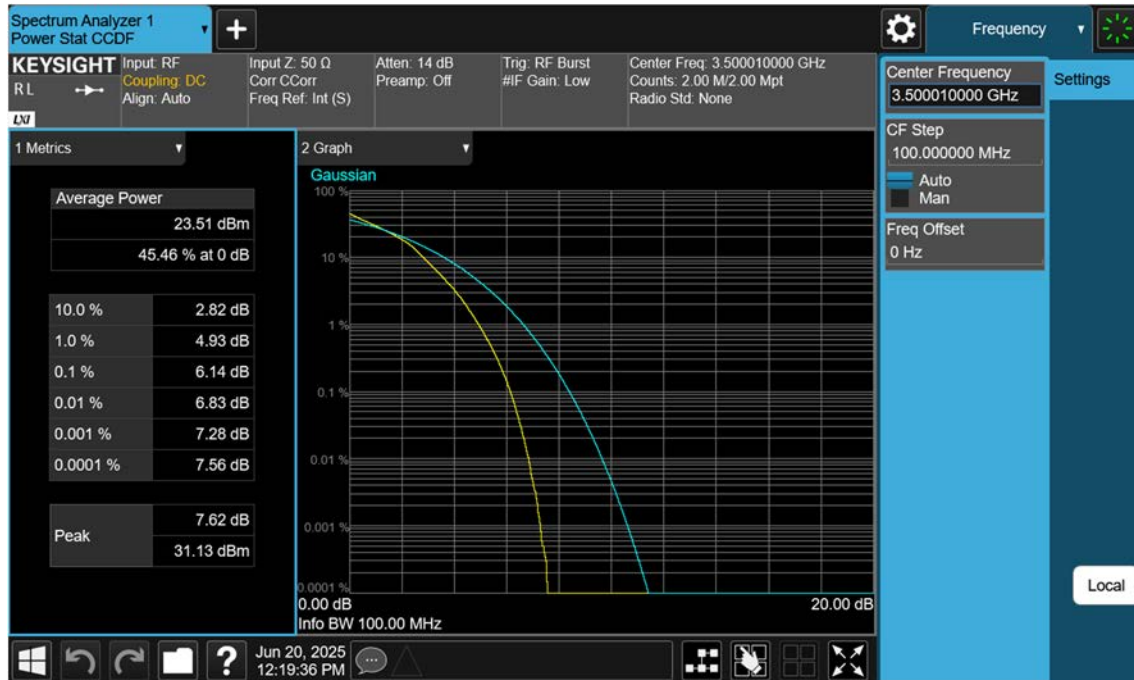
n77(3450~3550 MHz)_100 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_100 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_100 M_PAR_Mid_16QAM_FullRB



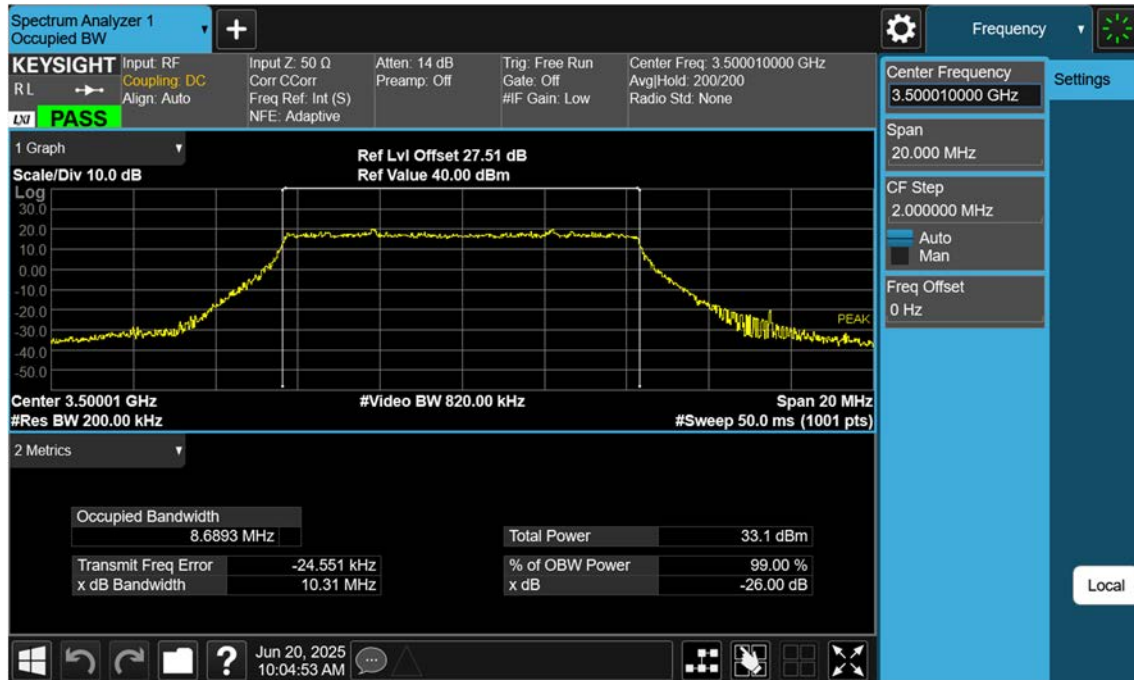
n77(3450~3550 MHz)_100 M_PAR_Mid_64QAM_FullRB



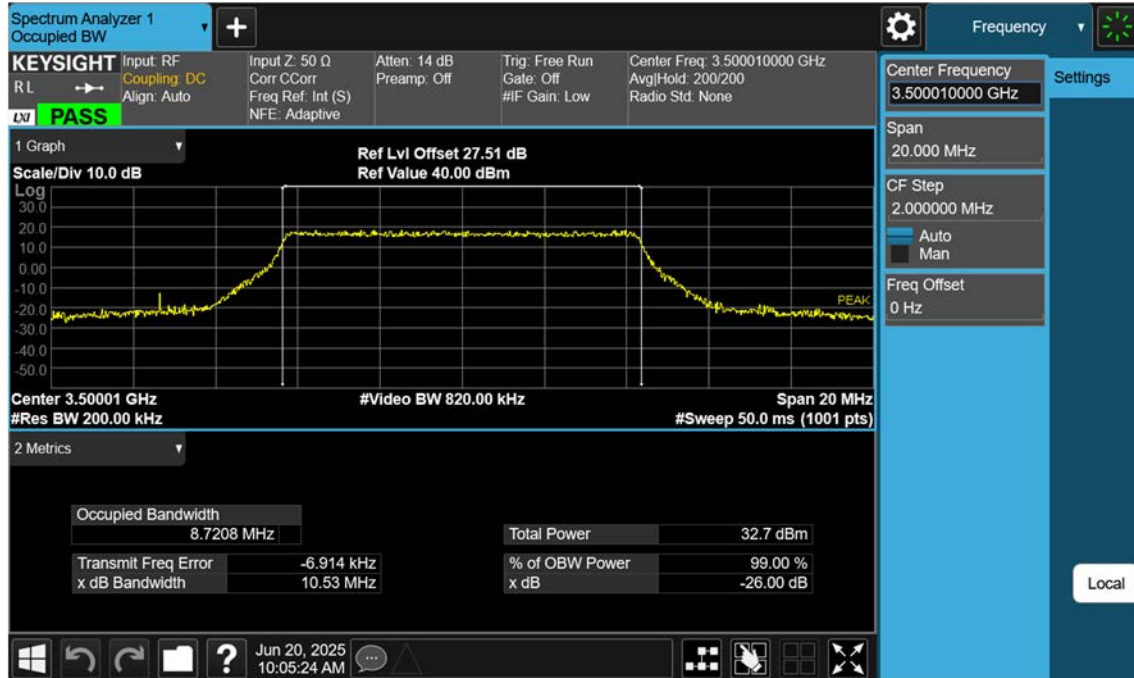
n77(3450~3550 MHz)_100 M_PAR_Mid_256QAM_FullRB



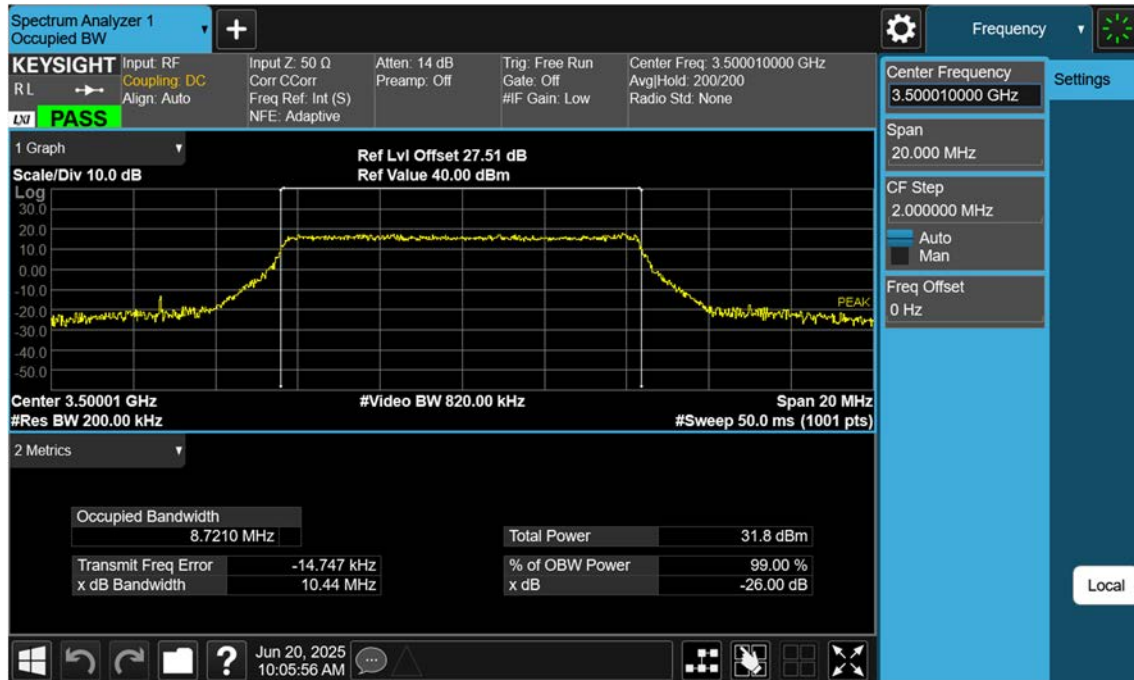
n77(3450~3550 MHz)_10 M_OBW_Mid_BPSK_FullRB



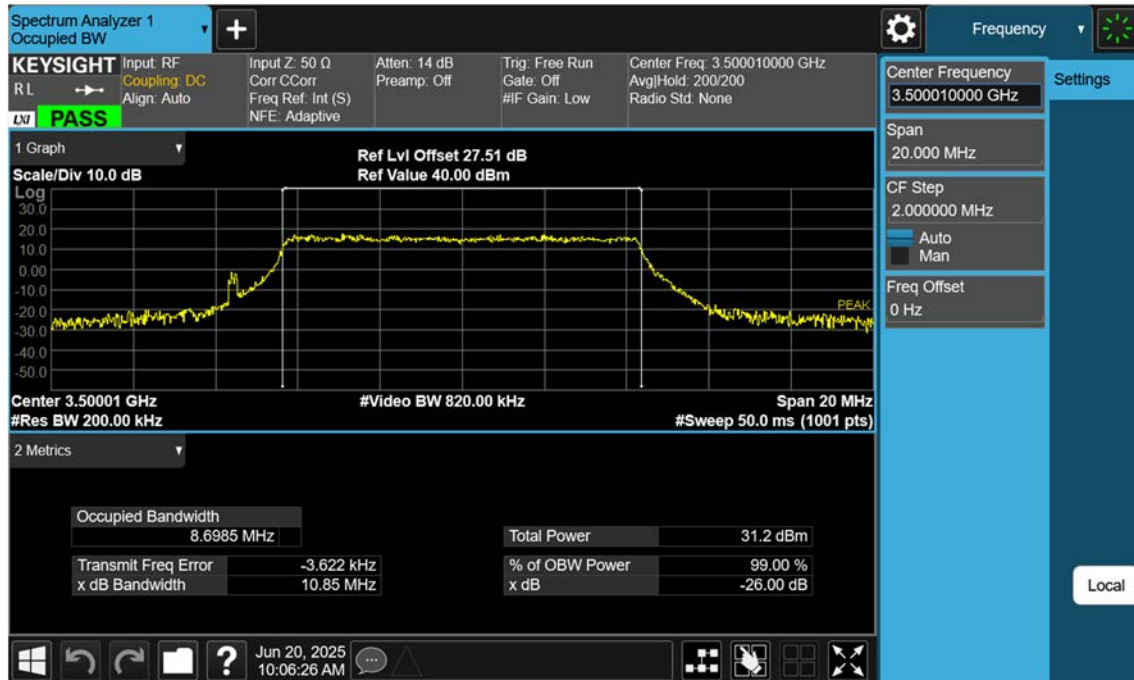
n77(3450~3550 MHz)_10 M_OBW_Mid_QPSK_FullRB



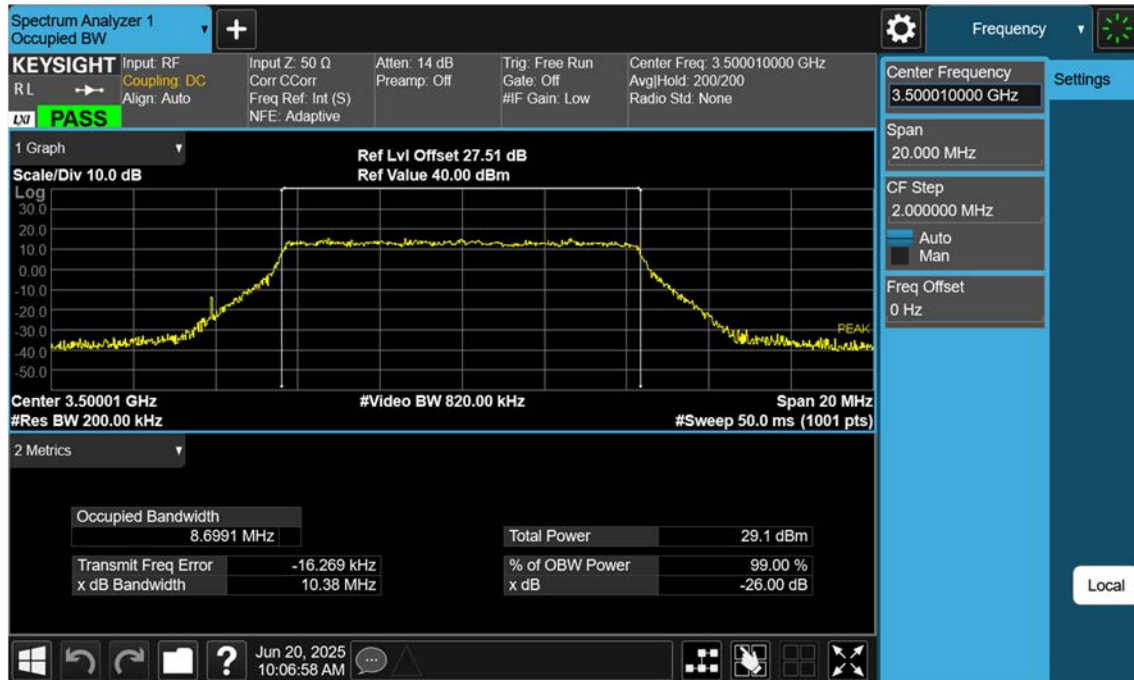
n77(3450~3550 MHz)_10 M_OBW_Mid_16QAM_FullRB



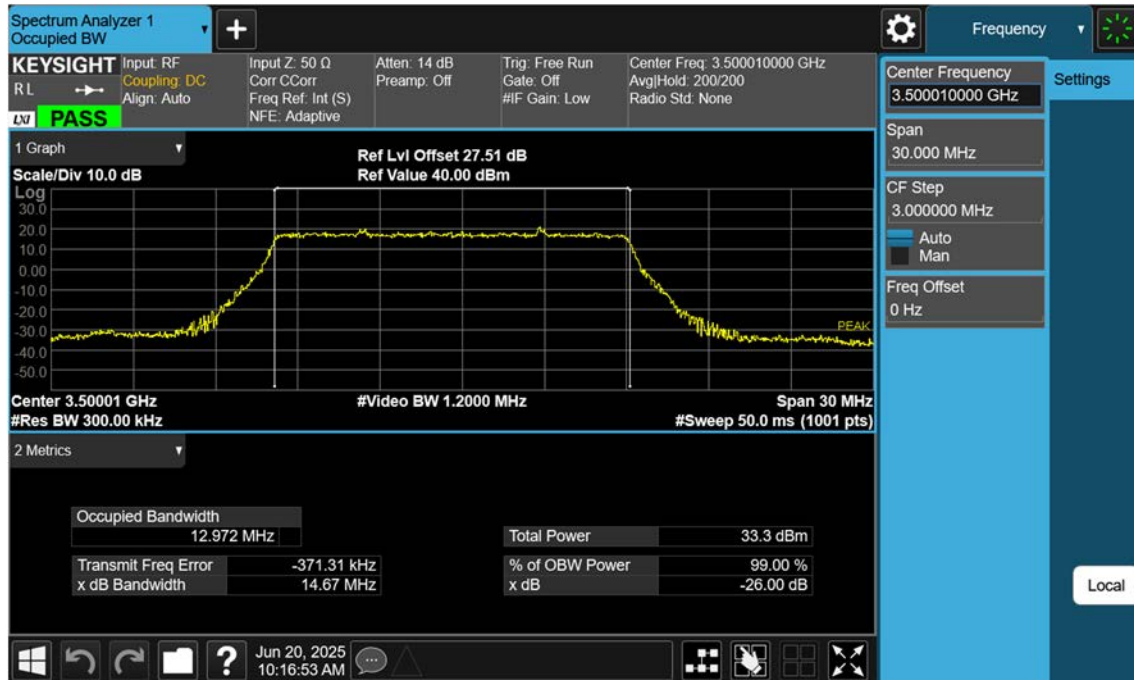
n77(3450~3550 MHz)_10 M_OBW_Mid_64QAM_FullRB



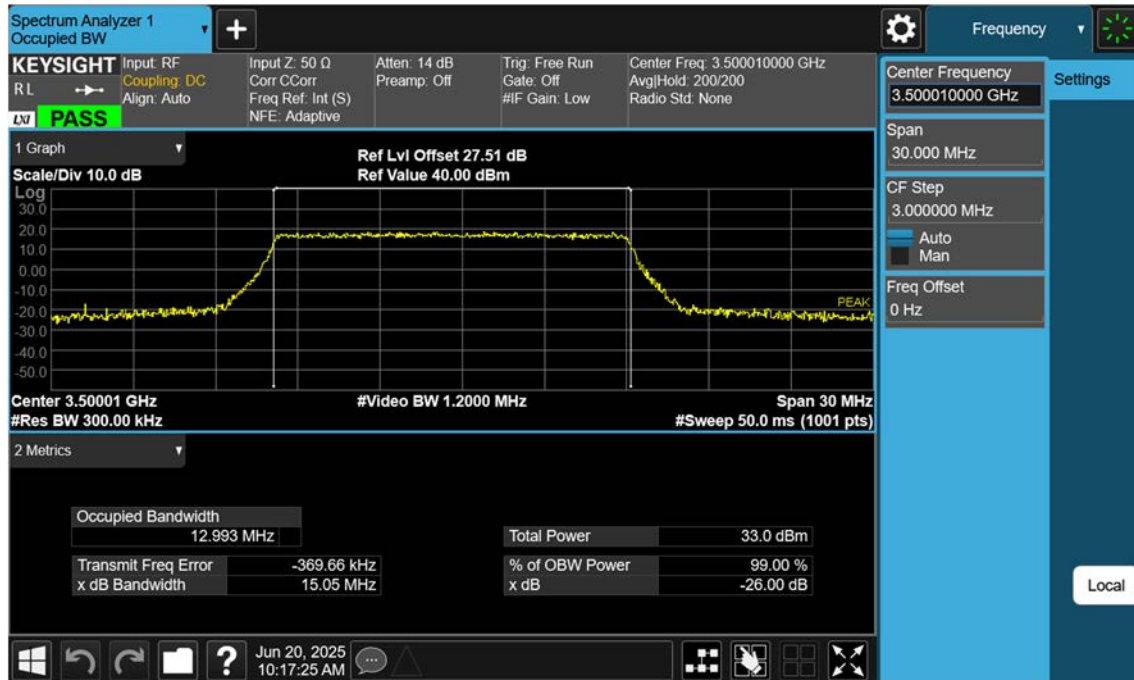
n77(3450~3550 MHz)_10 M_OBW_Mid_256QAM_FullRB



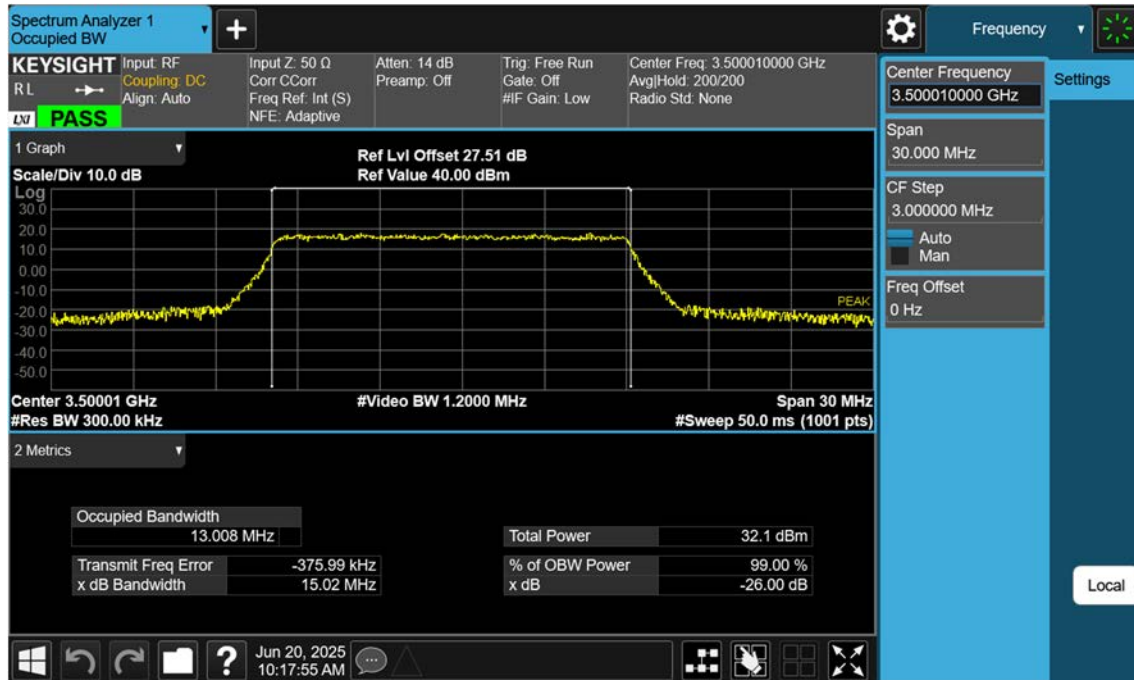
n77(3450~3550 MHz)_15 M_OBW_Mid_BPSK_FullRB



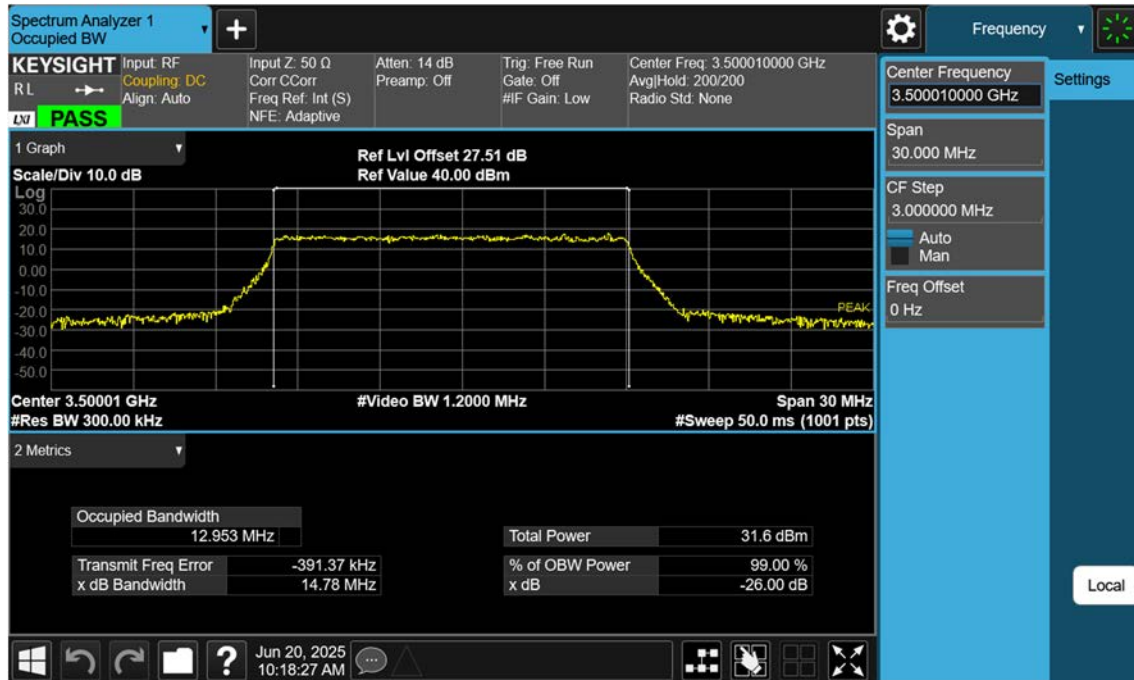
n77(3450~3550 MHz)_15 M_OBW_Mid_QPSK_FullRB



n77(3450~3550 MHz)_15 M_OBW_Mid_16QAM_FullRB



n77(3450~3550 MHz)_15 M_OBW_Mid_64QAM_FullRB



n77(3450~3550 MHz)_15 M_OBW_Mid_256QAM_FullRB

