

TEST REPORT

FCC Sub6 n77(78) Test for SM-A376U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2512-FC030

DATE OF ISSUE
December 15, 2025

Tested by
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TEST REPORT

REPORT NO.

HCT-RF-2512-FC030

DATE OF ISSUE

December 15, 2025

Additional Model

SM-A376U1, SM-S376V

Applicant**SAMSUNG Electronics Co., Ltd.**

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

Product Name

Mobile Phone

Model Name

SM-A376U

Date of Test

October 29, 2025 ~ December 15, 2025

FCC ID

A3LSMA376U

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	December 15, 2025	Initial Release

Notice

Content

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

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

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

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

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

Information provided by the applicant is marked **.

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

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

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

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Model(s):	SM-A376U
Additional Model(s)	SM-A376U1, SM-S376V
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)) 3750.00 MHz – 3930.00 MHz (Sub6 n77(78)(100 MHz))
Serial number:	Radiated : R3CY90Z80EZ Conducted : R3CY90Z80TK
Antenna Information	Please refer to the Antenna Specification document.

1.1. MAXIMUM OUTPUT POWER

1. 3450 MHz - 3550 MHz

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n77(78) (10)	3455.01 – 3544.99	8M66G7D	PI/2 BPSK	0.615	27.89
		8M65G7D	QPSK	0.612	27.87
		8M72W7D	16QAM	0.492	26.92
		8M65W7D	64QAM	0.340	25.32
		8M65W7D	256QAM	0.216	23.35
Sub6 n77(78) (15)	3457.50 – 3542.50	13M0G7D	PI/2 BPSK	0.624	27.95
		13M0G7D	QPSK	0.619	27.92
		13M0W7D	16QAM	0.498	26.97
		13M0W7D	64QAM	0.340	25.32
		12M9W7D	256QAM	0.218	23.38
Sub6 n77(78) (20)	3460.02 – 3540.00	18M0G7D	PI/2 BPSK	0.627	27.97
		18M0G7D	QPSK	0.622	27.94
		18M0W7D	16QAM	0.500	26.99
		17M9W7D	64QAM	0.348	25.42
		18M0W7D	256QAM	0.222	23.46
Sub6 n77(78) (25)	3462.50 – 3537.50	23M1G7D	PI/2 BPSK	0.628	27.98
		23M0G7D	QPSK	0.625	27.96
		23M0W7D	16QAM	0.499	26.98
		23M0W7D	64QAM	0.348	25.42
		22M9W7D	256QAM	0.222	23.47
Sub6 n77(78) (30)	3465.00 – 3534.99	27M0G7D	PI/2 BPSK	0.643	28.08
		27M0G7D	QPSK	0.637	28.04
		27M0W7D	16QAM	0.512	27.09
		26M9W7D	64QAM	0.351	25.45
		26M9W7D	256QAM	0.223	23.49
Sub6 n77(78) (40)	3470.01 – 3529.98	36M0G7D	PI/2 BPSK	0.638	28.05
		36M0G7D	QPSK	0.632	28.01
		36M0W7D	16QAM	0.507	27.05
		35M9W7D	64QAM	0.347	25.40
		35M9W7D	256QAM	0.222	23.46
Sub6 n77(78) (50)	3475.02 – 3525.00	46M0G7D	PI/2 BPSK	0.644	28.09
		45M9G7D	QPSK	0.634	28.02
		46M0W7D	16QAM	0.508	27.06
		46M2W7D	64QAM	0.354	25.49
		45M9W7D	256QAM	0.226	23.55

Sub6 n77(78) (60)	3480.00 – 3519.99	58M3G7D	PI/2 BPSK	0.650	28.13
		58M3G7D	QPSK	0.649	28.12
		58M2W7D	16QAM	0.519	27.15
		58M2W7D	64QAM	0.358	25.54
		58M1W7D	256QAM	0.229	23.59
Sub6 n77(78) (70)	3485.01 – 3514.98	64M7G7D	PI/2 BPSK	0.662	28.21
		64M8G7D	QPSK	0.650	28.13
		64M5W7D	16QAM	0.524	27.19
		64M8W7D	64QAM	0.361	25.58
		64M5W7D	256QAM	0.231	23.63
Sub6 n77(78) (80)	3490.02 – 3510.00	77M4G7D	PI/2 BPSK	0.670	28.26
		77M6G7D	QPSK	0.664	28.22
		77M8W7D	16QAM	0.537	27.30
		77M7W7D	64QAM	0.366	25.63
		77M8W7D	256QAM	0.234	23.69
Sub6 n77(78) (90)	3495.00 – 3504.99	87M2G7D	PI/2 BPSK	0.658	28.18
		87M3G7D	QPSK	0.653	28.15
		87M5W7D	16QAM	0.536	27.29
		87M0W7D	64QAM	0.357	25.53
		87M2W7D	256QAM	0.230	23.62
Sub6 n77(78) (100)	3500.01	96M7G7D	PI/2 BPSK	0.664	28.22
		96M9G7D	QPSK	0.658	28.18
		96M6W7D	16QAM	0.532	27.26
		96M7W7D	64QAM	0.367	25.65
		96M6W7D	256QAM	0.233	23.68

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	8M66G7D	PI/2 BPSK	0.641	28.07
		8M65G7D	QPSK	0.637	28.04
		8M60W7D	16QAM	0.512	27.09
		8M68W7D	64QAM	0.352	25.47
		8M68W7D	256QAM	0.223	23.49
Sub6 n77(78) (15)	3707.51 – 3972.48	13M0G7D	PI/2 BPSK	0.643	28.08
		13M0G7D	QPSK	0.621	27.93
		12M9W7D	16QAM	0.499	26.98
		13M0W7D	64QAM	0.352	25.46
		12M9W7D	256QAM	0.222	23.47
Sub6 n77(78) (20)	3710.01 – 3969.99	18M0G7D	PI/2 BPSK	0.655	28.16
		17M9G7D	QPSK	0.644	28.09
		18M0W7D	16QAM	0.518	27.14
		17M9W7D	64QAM	0.356	25.51
		18M0W7D	256QAM	0.226	23.54
Sub6 n77(78) (25)	3712.50 – 3967.50	22M9G7D	PI/2 BPSK	0.659	28.19
		23M1G7D	QPSK	0.652	28.14
		23M0W7D	16QAM	0.525	27.20
		23M0W7D	64QAM	0.358	25.54
		22M9W7D	256QAM	0.229	23.59
Sub6 n77(78) (30)	3715.02 – 3964.98	27M0G7D	PI/2 BPSK	0.659	28.19
		27M0G7D	QPSK	0.644	28.09
		27M1W7D	16QAM	0.514	27.11
		27M0W7D	64QAM	0.359	25.55
		26M9W7D	256QAM	0.230	23.62
Sub6 n77(78) (40)	3720.00 – 3960.00	36M0G7D	PI/2 BPSK	0.665	28.23
		36M0G7D	QPSK	0.653	28.15
		35M9W7D	16QAM	0.525	27.20
		36M0W7D	64QAM	0.366	25.63
		35M8W7D	256QAM	0.233	23.67
Sub6 n77(78) (50)	3725.10 – 3954.99	46M0G7D	PI/2 BPSK	0.664	28.22
		45M9G7D	QPSK	0.656	28.17
		46M1W7D	16QAM	0.526	27.21
		45M9W7D	64QAM	0.365	25.62
		46M1W7D	256QAM	0.232	23.66
Sub6 n77(78) (60)	3730.02 – 3949.98	58M2G7D	PI/2 BPSK	0.687	28.37
		58M1G7D	QPSK	0.681	28.33
		58M2W7D	16QAM	0.548	27.39
		58M0W7D	64QAM	0.374	25.73
		58M1W7D	256QAM	0.238	23.77

Sub6 n77(78) (70)	3735.00 – 3945.00	64M8G7D	PI/2 BPSK	0.697	28.43
		64M7G7D	QPSK	0.685	28.36
		64M7W7D	16QAM	0.550	27.40
		64M7W7D	64QAM	0.381	25.81
		64M7W7D	256QAM	0.244	23.88
Sub6 n77(78) (80)	3740.01 – 3939.99	77M6G7D	PI/2 BPSK	0.723	28.59
		77M4G7D	QPSK	0.711	28.52
		77M7W7D	16QAM	0.574	27.59
		77M8W7D	64QAM	0.394	25.96
		77M6W7D	256QAM	0.250	23.98
Sub6 n77(78) (90)	3745.02 – 3934.98	87M2G7D	PI/2 BPSK	0.719	28.57
		87M2G7D	QPSK	0.714	28.54
		87M1W7D	16QAM	0.561	27.49
		87M0W7D	64QAM	0.390	25.91
		87M3W7D	256QAM	0.249	23.96
Sub6 n77(78) (100)	3750.00 – 3930.00	96M9G7D	PI/2 BPSK	0.731	28.64
		96M7G7D	QPSK	0.728	28.62
		96M6W7D	16QAM	0.556	27.45
		96M9W7D	64QAM	0.400	26.02
		96M9W7D	256QAM	0.256	24.08

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

Please refer to the [2G3G] Test Report.

2.2. MEASURING INSTRUMENT CALIBRATION

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

2.3. TEST FACILITY

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

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

2.4. EQUIPMENT

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

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

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

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

3. DESCRIPTION OF TESTS

3.1 TEST PROCEDURE

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

3.2 RADIATED POWER

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

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

Test Settings

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

Test Note

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

The power is calculated by the following formula;

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

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

3. The maximum value is calculated by adding the forward power to the calibrated source plus its appropriate gain value.
These steps are repeated with the receiving antenna in both vertical and horizontal polarization. the difference between the gain of the horn and an isotropic antenna are taken into consideration
4. The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
5. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

3.3 RADIATED SPURIOUS EMISSIONS

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method.

Test Settings

1. RBW = 100 kHz for emissions below 1 GHz and 1 MHz for emissions above 1 GHz
2. VBW $\geq 3 \times$ RBW
3. No. of sweep points $> 2 \times$ span / RBW
4. Detector = Peak
5. Trace mode = Max Hold
6. The trace was allowed to stabilize
7. Test channel : Low/ Middle/ High
8. 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;

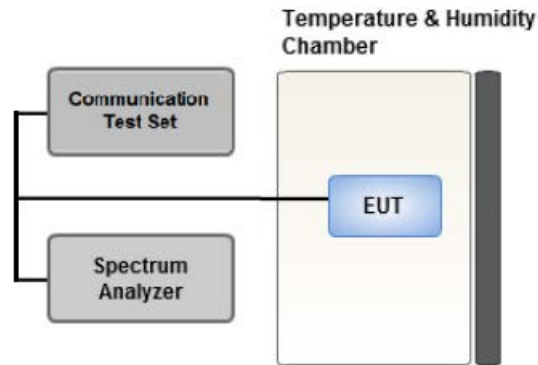
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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

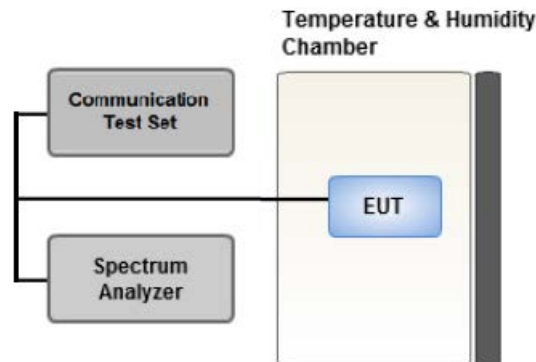


Test setup

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 %.

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.

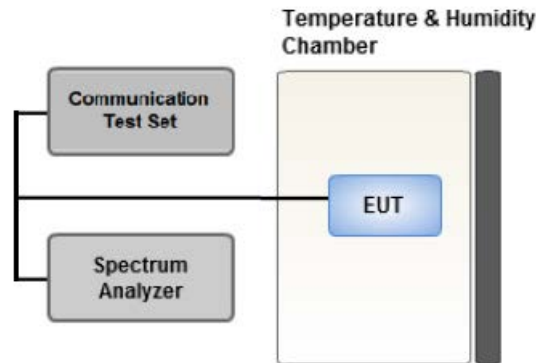
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

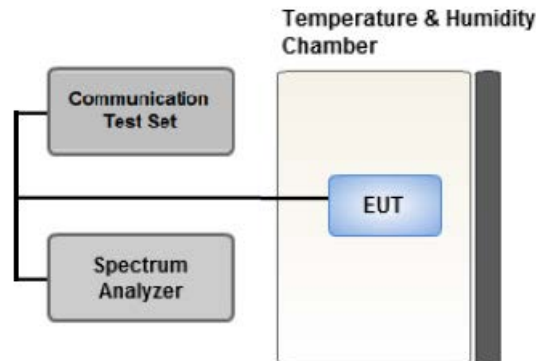
Test Overview

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 = 1001 pts

3.7 BAND EDGE



Test setup

Test Overview

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

Test Settings

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

Test Notes

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

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

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

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

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

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

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

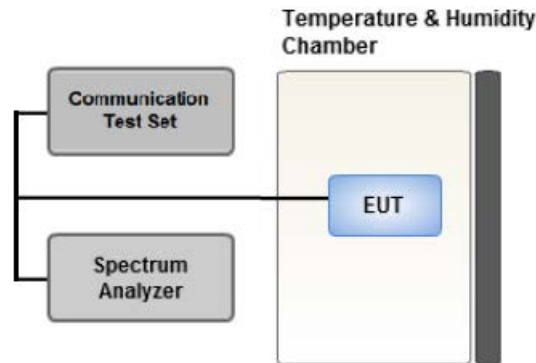
However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz.

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

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

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

3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



Test setup

Test Overview

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

The frequency stability of the transmitter is measured by:

1. Temperature:

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

2. Primary Supply Voltage:

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

Test Settings

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

3.9 WORST CASE(RADIATED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
(Worst case: DFT-S-OFDM)
- The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
- NR n77 (3450 – 3550 MHz / 3700 – 3980 MHz) overlaps the entire frequency range of NR n78 (3450 - 3550 MHz / 3700 – 3800 MHz) and they have the same Tune-up power.
- All modes of operation were investigated and the worst case configuration results are reported.
Mode: NSA, SA, SRS
Worst case: SA
Mode : Stand alone, Stand alone + External accessories (Earphone, AC adapter, etc)
Worst case : Stand alone
- All simultaneous transmission scenarios of operation were investigated, and the test results showed no additional significant emissions relative to the least restrictive limit were observed.
Therefore, only the worst case(stand-alone) results were reported.
- All power classes were tested, and the results were reported for the worst case PC2. (PC2 Only)
- Radiated Spurious emissions are measured while operating in EN-DC mode with Sub 6 NR carrier as well as an LTE carrier (anchor).
All EN-DC mode of operation (=anchor) were investigated and the test results were measured No Peak Found.
The test results which are attenuated more than 20 dB below the permissible value, so it was not reported.
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.
- In the case of radiated spurious emissions, all bandwidth of operation were investigated and the worst case bandwidth results are reported.
(Worst case : 80 MHz(3450 MHz – 3550 MHz), 100 MHz (3700 MHz – 3980 MHz))
- SM-A376U & additional models were tested and the worst case results are reported.
(Worst case : SM-A376U)

[3450 MHz - 3550 MHz Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Equivalent Isotropic Radiated Power	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	See Section 8.1		Z
Radiated Spurious and Harmonic Emissions	PI/2 BPSK	See Section 8.2		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		Z
Radiated Spurious and Harmonic Emissions	PI/2 BPSK	See Section 9.2		X

3.10 WORST CASE(CONDUCTED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
(Worst case: DFT-S-OFDM)
- Modulation : All Modulation of operation were investigated and the worst case configuration results are reported.
(Worst case: PI/2 BPSK)
- NR n77 (3450 – 3550 MHz / 3700 – 3980 MHz) overlaps the entire frequency range of NR n78 (3450 -3550 MHz / 3700 – 3800 MHz) and they have the same Tune-up power.
- All modes of operation were investigated and the worst case configuration results are reported.
Mode: NSA, SA, SRS
Worst case: SA
- All power classes were tested, and the results were reported for the worst case PC2. (PC2 Only)
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.
- SM-A376U & additional models were tested and the worst case results are reported.
(Worst case : SM-A376U)

[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	10/21/2026	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/19/2026	Annual
DC Power Supply	E3632A	Hewlett Packard	MY40004427	08/11/2026	Annual
Power Splitter(DC~26.5 GHz)	11667B	Hewlett Packard	11275	02/04/2026	Annual
Chamber	SU-642	ESPEC	93008124	02/11/2026	Annual
Signal Analyzer(10 Hz~26.5 GHz)	N9020A	Agilent	MY51110063	03/21/2026	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/10/2026	Annual
Spectrum Analyzer (10 Hz~40 GHz)	FSV40	REOHDE & SCHWARZ	101436	02/04/2026	Annual
Signal & Spectrum Analyzer (2 Hz~67 GHz)	FSW67	REOHDE & SCHWARZ	101736	05/27/2026	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	07/29/2026	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/14/2026	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6262302511	05/08/2026	Annual
Signal Analyzer(5 Hz~40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/14/2026	Annual
UXM 5G Wireless Test Platform	E7515B	KEYSIGHT	MY60101126	02/10/2026	Annual
4-Way Divider	ZC4PD-K1844+	Mini-Circuits	942907	09/05/2026	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/22/2026	Annual
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 C63.5-2017.

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	PASS_ 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		PI/2 BPSK	-20.79	17.86	11.96	3.02	H	< 1.00	0.479	26.80	1	22
		QPSK	-20.87	17.78	11.96	3.02	H		0.470	26.72		
		16-QAM	-21.83	16.82	11.96	3.02	H		0.377	25.76		
		64-QAM	-23.41	15.24	11.96	3.02	H		0.262	24.18		
		256-QAM	-25.35	13.30	11.96	3.02	H		0.167	22.24		
3500.01	Sub6 n77(78)/ 10 MHz [30 kHz]	PI/2 BPSK	-20.03	18.87	12.04	3.06	H	< 1.00	0.610	27.85	1	12
		QPSK	-20.14	18.76	12.04	3.06	H		0.594	27.74		
		16-QAM	-21.09	17.81	12.04	3.06	H		0.478	26.79		
		64-QAM	-22.66	16.24	12.04	3.06	H		0.333	25.22		
		256-QAM	-24.63	14.27	12.04	3.06	H		0.211	23.25		
3544.99		PI/2 BPSK	-19.75	18.94	12.04	3.09	H	< 1.00	0.615	27.89	1	22
		QPSK	-19.77	18.92	12.04	3.09	H		0.612	27.87		
		16-QAM	-20.72	17.97	12.04	3.09	H		0.492	26.92		
		64-QAM	-22.32	16.37	12.04	3.09	H		0.340	25.32		
		256-QAM	-24.29	14.40	12.04	3.09	H		0.216	23.35		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3457.50		PI/2 BPSK	-20.73	17.91	12.00	3.02	H		0.489	26.89	1	36
		QPSK	-20.75	17.89	12.00	3.02	H		0.486	26.87		
		16-QAM	-21.74	16.90	12.00	3.02	H		0.387	25.88		
		64-QAM	-23.29	15.35	12.00	3.02	H		0.271	24.33		
		256-QAM	-25.23	13.41	12.00	3.02	H		0.173	22.39		
3500.01	Sub6 n77(78)/ 15 MHz [30 kHz]	PI/2 BPSK	-19.93	18.97	12.04	3.06	H		0.624	27.95	1	36
		QPSK	-19.96	18.94	12.04	3.06	H		0.619	27.92		
		16-QAM	-20.91	17.99	12.04	3.06	H	< 1.00	0.498	26.97		
		64-QAM	-22.56	16.34	12.04	3.06	H		0.340	25.32		
		256-QAM	-24.50	14.40	12.04	3.06	H		0.218	23.38		
3542.50		PI/2 BPSK	-19.74	18.95	12.04	3.09	H		0.617	27.90	1	36
		QPSK	-19.78	18.91	12.04	3.09	H		0.611	27.86		
		16-QAM	-20.73	17.96	12.04	3.09	H		0.491	26.91		
		64-QAM	-22.39	16.30	12.04	3.09	H		0.335	25.25		
		256-QAM	-24.27	14.42	12.04	3.09	H		0.217	23.37		

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	-20.53	18.11	12.00	3.02	H	< 1.00	0.512	27.09	1	49
		QPSK	-20.61	18.03	12.00	3.02	H		0.502	27.01		
		16-QAM	-21.53	17.11	12.00	3.02	H		0.406	26.09		
		64-QAM	-23.18	15.46	12.00	3.02	H		0.278	24.44		
		256-QAM	-25.13	13.51	12.00	3.02	H		0.177	22.49		
3500.01		PI/2 BPSK	-19.94	18.96	12.04	3.06	H		0.622	27.94	1	49
		QPSK	-19.97	18.93	12.04	3.06	H		0.618	27.91		
		16-QAM	-20.94	17.96	12.04	3.06	H		0.494	26.94		
		64-QAM	-22.50	16.40	12.04	3.06	H		0.345	25.38		
		256-QAM	-24.43	14.47	12.04	3.06	H		0.221	23.45		
3540.00		PI/2 BPSK	-19.66	19.02	12.04	3.09	H		0.627	27.97	1	49
		QPSK	-19.69	18.99	12.04	3.09	H		0.622	27.94		
		16-QAM	-20.64	18.04	12.04	3.09	H		0.500	26.99		
		64-QAM	-22.21	16.47	12.04	3.09	H		0.348	25.42		
		256-QAM	-24.17	14.51	12.04	3.09	H		0.222	23.46		

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	-20.52	18.16	12.02	3.03	H	< 1.00	0.519	27.15	1	63
		QPSK	-20.58	18.10	12.02	3.03	H		0.512	27.09		
		16-QAM	-21.54	17.14	12.02	3.03	H		0.410	26.13		
		64-QAM	-23.11	15.57	12.02	3.03	H		0.286	24.56		
		256-QAM	-25.05	13.63	12.02	3.03	H		0.183	22.62		
3500.01		PI/2 BPSK	-19.90	19.00	12.04	3.06	H		0.628	27.98	1	63
		QPSK	-19.92	18.98	12.04	3.06	H		0.625	27.96		
		16-QAM	-20.90	18.00	12.04	3.06	H		0.499	26.98		
		64-QAM	-22.46	16.44	12.04	3.06	H		0.348	25.42		
		256-QAM	-24.41	14.49	12.04	3.06	H		0.222	23.47		
3537.50		PI/2 BPSK	-19.69	18.99	12.04	3.09	H	0.622	27.94	1	63	
		QPSK	-19.73	18.95	12.04	3.09	H	0.617	27.90			
		16-QAM	-20.69	17.99	12.04	3.09	H	0.494	26.94			
		64-QAM	-22.27	16.41	12.04	3.09	H	0.344	25.36			
		256-QAM	-24.23	14.45	12.04	3.09	H	0.219	23.40			

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3465.00	Sub6 n77(78)/ 30 MHz [30 kHz]	PI/2 BPSK	-20.42	18.26	12.02	3.03	H	< 1.00	0.531	27.25	1	76
		QPSK	-20.48	18.20	12.02	3.03	H		0.524	27.19		
		16-QAM	-21.44	17.24	12.02	3.03	H		0.420	26.23		
		64-QAM	-23.07	15.61	12.02	3.03	H		0.288	24.60		
		256-QAM	-25.03	13.65	12.02	3.03	H		0.184	22.64		
3500.01		PI/2 BPSK	-19.80	19.10	12.04	3.06	H		0.643	28.08	1	76
		QPSK	-19.84	19.06	12.04	3.06	H		0.637	28.04		
		16-QAM	-20.79	18.11	12.04	3.06	H		0.512	27.09		
		64-QAM	-22.43	16.47	12.04	3.06	H		0.351	25.45		
		256-QAM	-24.39	14.51	12.04	3.06	H		0.223	23.49		
3534.99		PI/2 BPSK	-19.59	19.11	12.04	3.09	H		0.640	28.06	1	76
		QPSK	-19.65	19.05	12.04	3.09	H		0.631	28.00		
		16-QAM	-20.59	18.11	12.04	3.09	H		0.508	27.06		
		64-QAM	-22.24	16.46	12.04	3.09	H		0.348	25.41		
		256-QAM	-24.19	14.51	12.04	3.09	H		0.222	23.46		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3470.01	Sub6 n77(78)/ 40 MHz [30 kHz]	PI/2 BPSK	-20.28	18.44	12.04	3.04	H	< 1.00	0.555	27.44	1	104
		QPSK	-20.31	18.41	12.04	3.04	H		0.551	27.41		
		16-QAM	-21.24	17.48	12.04	3.04	H		0.445	26.48		
		64-QAM	-22.88	15.84	12.04	3.04	H		0.305	24.84		
		256-QAM	-24.79	13.93	12.04	3.04	H		0.196	22.93		
3500.01		PI/2 BPSK	-19.85	19.05	12.04	3.06	H		0.635	28.03	1	53
		QPSK	-19.95	18.95	12.04	3.06	H		0.621	27.93		
		16-QAM	-20.91	17.99	12.04	3.06	H		0.498	26.97		
		64-QAM	-22.49	16.41	12.04	3.06	H		0.346	25.39		
		256-QAM	-24.46	14.44	12.04	3.06	H		0.220	23.42		
3529.98		PI/2 BPSK	-19.62	19.10	12.04	3.09	H		0.638	28.05	1	104
		QPSK	-19.66	19.06	12.04	3.09	H		0.632	28.01		
		16-QAM	-20.62	18.10	12.04	3.09	H		0.507	27.05		
		64-QAM	-22.27	16.45	12.04	3.09	H		0.347	25.40		
		256-QAM	-24.21	14.51	12.04	3.09	H		0.222	23.46		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3475.02	Sub6 n77(78)/ 50 MHz [30 kHz]	PI/2 BPSK	-19.99	18.83	12.04	3.05	H	< 1.00	0.605	27.82	1	131
		QPSK	-20.04	18.78	12.04	3.05	H		0.598	27.77		
		16-QAM	-20.98	17.84	12.04	3.05	H		0.482	26.83		
		64-QAM	-22.58	16.24	12.04	3.05	H		0.333	25.23		
		256-QAM	-24.51	14.31	12.04	3.05	H		0.214	23.30		
3500.01		PI/2 BPSK	-19.86	19.04	12.04	3.06	H		0.634	28.02	1	131
		QPSK	-19.88	19.02	12.04	3.06	H		0.631	28.00		
		16-QAM	-20.82	18.08	12.04	3.06	H		0.508	27.06		
		64-QAM	-22.48	16.42	12.04	3.06	H		0.347	25.40		
		256-QAM	-24.43	14.47	12.04	3.06	H		0.221	23.45		
3525.00		PI/2 BPSK	-19.64	19.13	12.04	3.08	H		0.644	28.09	1	131
		QPSK	-19.71	19.06	12.04	3.08	H		0.634	28.02		
		16-QAM	-20.67	18.10	12.04	3.08	H		0.508	27.06		
		64-QAM	-22.24	16.53	12.04	3.08	H		0.354	25.49		
		256-QAM	-24.18	14.59	12.04	3.08	H		0.226	23.55		

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	-19.94	18.97	12.04	3.05	H	< 1.00	0.625	27.96	1	160
		QPSK	-19.98	18.93	12.04	3.05	H		0.619	27.92		
		16-QAM	-20.95	17.96	12.04	3.05	H		0.495	26.95		
		64-QAM	-22.50	16.41	12.04	3.05	H		0.347	25.40		
		256-QAM	-24.45	14.46	12.04	3.05	H		0.221	23.45		
3500.01		PI/2 BPSK	-19.87	19.03	12.04	3.06	H		0.632	28.01	1	160
		QPSK	-19.89	19.01	12.04	3.06	H		0.630	27.99		
		16-QAM	-20.86	18.04	12.04	3.06	H		0.504	27.02		
		64-QAM	-22.43	16.47	12.04	3.06	H		0.351	25.45		
		256-QAM	-24.36	14.54	12.04	3.06	H		0.225	23.52		
3519.99		PI/2 BPSK	-19.65	19.17	12.04	3.08	H		0.650	28.13	1	160
		QPSK	-19.66	19.16	12.04	3.08	H		0.649	28.12		
		16-QAM	-20.63	18.19	12.04	3.08	H		0.519	27.15		
		64-QAM	-22.24	16.58	12.04	3.08	H		0.358	25.54		
		256-QAM	-24.19	14.63	12.04	3.08	H		0.229	23.59		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3485.01		PI/2 BPSK	-19.89	18.97	12.04	3.06	H	< 1.00	0.624	27.95	1	187
		QPSK	-19.95	18.91	12.04	3.06	H		0.615	27.89		
		16-QAM	-20.91	17.95	12.04	3.06	H		0.493	26.93		
		64-QAM	-22.48	16.38	12.04	3.06	H		0.344	25.36		
		256-QAM	-24.41	14.45	12.04	3.06	H		0.220	23.43		
3500.01	Sub6 n77(78)/ 70 MHz [30 kHz]	PI/2 BPSK	-19.90	19.00	12.04	3.06	H	< 1.00	0.628	27.98	1	187
		QPSK	-19.91	18.99	12.04	3.06	H		0.627	27.97		
		16-QAM	-20.88	18.02	12.04	3.06	H		0.501	27.00		
		64-QAM	-22.48	16.42	12.04	3.06	H		0.347	25.40		
		256-QAM	-24.42	14.48	12.04	3.06	H		0.222	23.46		
3514.98		PI/2 BPSK	-19.63	19.24	12.04	3.07	H	< 1.00	0.662	28.21	1	187
		QPSK	-19.71	19.16	12.04	3.07	H		0.650	28.13		
		16-QAM	-20.65	18.22	12.04	3.07	H		0.524	27.19		
		64-QAM	-22.26	16.61	12.04	3.07	H		0.361	25.58		
		256-QAM	-24.21	14.66	12.04	3.07	H		0.231	23.63		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3490.02	Sub6 n77(78)/ 80 MHz [30 kHz]	PI/2 BPSK	-19.87	18.93	12.04	3.06	H	< 1.00	0.618	27.91	1	215
		QPSK	-19.89	18.91	12.04	3.06	H		0.615	27.89		
		16-QAM	-20.83	17.97	12.04	3.06	H		0.495	26.95		
		64-QAM	-22.45	16.35	12.04	3.06	H		0.341	25.33		
		256-QAM	-24.41	14.39	12.04	3.06	H		0.217	23.37		
3500.01		PI/2 BPSK	-19.90	19.00	12.04	3.06	H		0.628	27.98	1	215
		QPSK	-19.92	18.98	12.04	3.06	H		0.625	27.96		
		16-QAM	-20.89	18.01	12.04	3.06	H		0.500	26.99		
		64-QAM	-22.49	16.41	12.04	3.06	H		0.346	25.39		
		256-QAM	-24.40	14.50	12.04	3.06	H		0.223	23.48		
3510.00		PI/2 BPSK	-19.64	19.29	12.04	3.07	H		0.670	28.26	1	215
		QPSK	-19.68	19.25	12.04	3.07	H		0.664	28.22		
		16-QAM	-20.60	18.33	12.04	3.07	H		0.537	27.30		
		64-QAM	-22.27	16.66	12.04	3.07	H		0.366	25.63		
		256-QAM	-24.21	14.72	12.04	3.07	H		0.234	23.69		

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	-19.86	18.99	12.04	3.06	H	< 1.00	0.627	27.97	1	243
		QPSK	-19.93	18.92	12.04	3.06	H		0.617	27.90		
		16-QAM	-20.89	17.96	12.04	3.06	H		0.494	26.94		
		64-QAM	-22.45	16.40	12.04	3.06	H		0.345	25.38		
		256-QAM	-24.39	14.46	12.04	3.06	H		0.221	23.44		
3500.01		PI/2 BPSK	-19.82	19.08	12.04	3.06	H		0.640	28.06	1	243
		QPSK	-19.84	19.06	12.04	3.06	H		0.637	28.04		
		16-QAM	-20.80	18.10	12.04	3.06	H		0.511	27.08		
		64-QAM	-22.48	16.42	12.04	3.06	H		0.347	25.40		
		256-QAM	-24.38	14.52	12.04	3.06	H		0.224	23.50		
3504.99		PI/2 BPSK	-19.71	19.21	12.04	3.07	H		0.658	28.18	1	243
		QPSK	-19.74	19.18	12.04	3.07	H		0.653	28.15		
		16-QAM	-20.60	18.32	12.04	3.07	H		0.536	27.29		
		64-QAM	-22.36	16.56	12.04	3.07	H		0.357	25.53		
		256-QAM	-24.27	14.65	12.04	3.07	H		0.230	23.62		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3500.01	Sub6 n77(78)/ 100 MHz [30 kHz]	PI/2 BPSK	-19.66	19.24	12.04	3.06	H	< 1.00	0.664	28.22	1	271
		QPSK	-19.70	19.20	12.04	3.06	H		0.658	28.18		
		16-QAM	-20.62	18.28	12.04	3.06	H		0.532	27.26		
		64-QAM	-22.23	16.67	12.04	3.06	H		0.367	25.65		
		256-QAM	-24.20	14.70	12.04	3.06	H		0.233	23.68		

8.2 RADIATED SPURIOUS EMISSIONS

NR Band:	<u>n77(78)</u>
Bandwidth:	<u>80 MHz</u>
Modulation:	<u>PI/2 BPSK</u>
Distance:	<u>1 meters</u>
SCS:	<u>30 kHz</u>

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
632668 (3490.02)	6 980.04	-63.10	12.02	-56.78	4.55	V	-49.31	-13.00	1	215
	10 470.06	-63.16	10.89	-52.88	5.64	V	-47.63	-13.00		
	13 960.08	-59.49	11.97	-48.83	6.62	V	-43.48	-13.00		
633334 (3500.01)	7 000.02	-63.59	11.92	-56.92	4.61	V	-49.61	-13.00	1	215
	10 500.03	-63.11	10.88	-51.88	5.65	V	-46.65	-13.00		
	14 000.04	-59.67	11.88	-50.07	6.63	V	-44.82	-13.00		
634000 (3510.00)	7 020.00	-63.10	11.82	-56.17	4.61	V	-48.96	-13.00	1	215
	10 530.00	-63.87	10.89	-53.19	5.61	V	-47.91	-13.00		
	14 040.00	-59.11	11.80	-49.29	6.64	V	-44.13	-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	PI/2 BPSK	Full RB	0	5.36	13.00
			QPSK			5.75	
			16-QAM			6.18	
			64-QAM			6.20	
			256-QAM			6.42	
	15 MHz		PI/2 BPSK			4.36	
			QPSK			5.60	
			16-QAM			6.14	
			64-QAM			6.41	
			256-QAM			6.59	
	20 MHz		PI/2 BPSK			5.38	
			QPSK			5.69	
			16-QAM			6.06	
			64-QAM			6.35	
			256-QAM			6.58	
	25 MHz		PI/2 BPSK			5.89	
			QPSK			5.81	
			16-QAM			6.05	
			64-QAM			6.26	
			256-QAM			6.53	
	30 MHz		PI/2 BPSK			4.64	
			QPSK			5.67	
			16-QAM			6.26	
			64-QAM			6.37	
			256-QAM			6.64	
	40 MHz		PI/2 BPSK			5.88	
			QPSK			6.10	
			16-QAM			6.28	
			64-QAM			6.48	
			256-QAM			6.72	

	50 MHz	PI/2 BPSK			4.42
		QPSK			5.58
		16-QAM			6.10
		64-QAM			6.34
		256-QAM			6.58
	60 MHz	PI/2 BPSK			4.57
		QPSK			5.63
		16-QAM			6.12
		64-QAM			6.35
		256-QAM			6.51
	70 MHz	PI/2 BPSK			4.58
		QPSK			5.64
		16-QAM			6.14
		64-QAM			6.35
		256-QAM			6.55
	80 MHz	PI/2 BPSK			4.73
		QPSK			5.60
		16-QAM			6.18
		64-QAM			6.34
		256-QAM			6.61
	90 MHz	PI/2 BPSK			4.74
		QPSK			5.62
		16-QAM			6.18
		64-QAM			6.43
		256-QAM			6.49
	100 MHz	PI/2 BPSK			5.13
		QPSK			5.63
		16-QAM			6.16
		64-QAM			6.36
		256-QAM			6.55

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 92 ~ 151.

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	PI/2 BPSK	Full RB	0	8.6635
			QPSK			8.6481
			16-QAM			8.7184
			64-QAM			8.6501
			256-QAM			8.6498
	15 MHz		PI/2 BPSK			13.005
			QPSK			12.983
			16-QAM			13.008
			64-QAM			13.010
			256-QAM			12.919
	20 MHz		PI/2 BPSK			17.981
			QPSK			18.015
			16-QAM			17.961
			64-QAM			17.898
			256-QAM			17.994
	25 MHz		PI/2 BPSK			23.097
			QPSK			22.998
			16-QAM			23.035
			64-QAM			23.008
			256-QAM			22.940
	30 MHz		PI/2 BPSK			27.009
			QPSK			27.000
			16-QAM			26.959
			64-QAM			26.935
			256-QAM			26.924
	40 MHz		PI/2 BPSK			36.029
			QPSK			35.988
			16-QAM			35.971
			64-QAM			35.938
			256-QAM			35.899

	50 MHz	PI/2 BPSK	46.023
		QPSK	45.894
		16-QAM	45.998
		64-QAM	46.155
		256-QAM	45.885
	60 MHz	PI/2 BPSK	58.311
		QPSK	58.314
		16-QAM	58.212
		64-QAM	58.236
		256-QAM	58.122
	70 MHz	PI/2 BPSK	64.708
		QPSK	64.754
		16-QAM	64.452
		64-QAM	64.774
		256-QAM	64.453
	80 MHz	PI/2 BPSK	77.401
		QPSK	77.545
		16-QAM	77.780
		64-QAM	77.723
		256-QAM	77.827
	90 MHz	PI/2 BPSK	87.236
		QPSK	87.291
		16-QAM	87.462
		64-QAM	87.016
		256-QAM	87.155
	100 MHz	PI/2 BPSK	96.738
		QPSK	96.888
		16-QAM	96.600
		64-QAM	96.657
		256-QAM	96.568

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 152 ~ 211.

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	7.7169	29.116	-63.802	-34.686	-13.00
		3500.010	9.1027	29.116	-63.703	-34.587	
		3544.980	9.9202	29.116	-61.462	-32.346	
	15	3457.500	4.8754	28.533	-63.556	-35.023	
		3500.010	9.7308	29.116	-63.095	-33.979	
		3542.490	9.1825	29.116	-63.390	-34.274	
	20	3460.020	9.1226	29.116	-63.198	-34.082	
		3500.010	8.0359	29.116	-63.759	-34.643	
		3540.000	9.2622	29.116	-63.527	-34.411	
	25	3462.510	6.0020	29.116	-63.807	-34.691	
		3500.010	8.0060	29.116	-62.384	-33.268	
		3537.480	5.2343	29.116	-62.762	-33.646	
	30	3465.000	9.9601	29.116	-63.033	-33.917	
		3500.010	5.1845	29.116	-63.506	-34.390	
		3534.990	4.8954	28.533	-63.671	-35.138	
	40	3470.010	5.5235	29.116	-64.155	-35.039	
		3500.010	5.7428	29.116	-63.479	-34.363	
		3529.980	4.9452	28.533	-63.381	-34.848	
	50	3475.020	4.9652	28.533	-63.433	-34.900	
		3500.010	7.1984	29.116	-63.510	-34.394	
		3525.000	8.8535	29.116	-62.782	-33.666	
	60	3480.000	8.8435	29.116	-63.447	-34.331	
		3500.010	9.6810	29.116	-63.899	-34.783	
		3519.990	9.1226	29.116	-63.923	-34.807	
	70	3485.010	5.9821	29.116	-62.171	-33.055	
		3500.010	9.7009	29.116	-63.388	-34.272	
		3514.980	9.6411	29.116	-63.555	-34.439	
	80	3490.020	9.6311	29.116	-62.537	-33.421	
		3500.010	4.9552	28.533	-62.971	-34.438	
		3510.000	5.1845	29.116	-61.949	-32.833	
	90	3495.000	7.7667	29.116	-63.346	-34.230	
		3500.010	4.9652	28.533	-63.880	-35.347	
		3504.990	9.6909	29.116	-63.103	-33.987	
	100	3500.010	9.7807	29.116	-64.077	-34.961	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 212 ~ 279.
2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)
 - Factor(dB) = Cable Loss + Ext. Attenuator + Power Splitter

3. Factor(dB)

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.012
1 – 5	28.533
5 – 10	29.116
10 – 15	30.025
15 – 20	31.052
Above 20	31.613

8.6 BAND EDGE

1. Plots of the EUT's Band Edge are shown Page 280 ~ 423.
2. Duty Cycle factor already applied on the factor.
 - Factor(dB) = Duty Cycle factor + Cable Loss + Ext. Attenuator + Power Splitter
 - Result(dBm) = Reading + Factor
 - Duty Cycle Factor(dB) = 6.990

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ▣ BandWidth: 10 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3455.010	100 %	+20(Ref)	3455 009 999	0.0	0.000 000	0.000
	100 %	-30	3455 009 997	-1.3	0.000 000	0.000
	100 %	-20	3455 010 000	0.9	0.000 000	0.000
	100 %	-10	3455 009 996	-3.1	0.000 000	-0.001
	100 %	0	3455 009 998	-0.6	0.000 000	0.000
	100 %	+10	3455 009 999	0.1	0.000 000	0.000
	100 %	+30	3455 010 000	1.2	0.000 000	0.000
	100 %	+40	3455 009 995	-3.3	0.000 000	-0.001
	100 %	+50	3455 009 994	-4.4	0.000 000	-0.001
	Batt. Endpoint	+20	3455 009 998	-0.2	0.000 000	0.000
3544.980	100 %	+20(Ref)	3544 979 998	0.0	0.000 000	0.000
	100 %	-30	3544 979 998	-0.3	0.000 000	0.000
	100 %	-20	3544 979 998	-0.2	0.000 000	0.000
	100 %	-10	3544 979 996	-1.6	0.000 000	0.000
	100 %	0	3544 979 997	-0.6	0.000 000	0.000
	100 %	+10	3544 979 992	-5.5	0.000 000	-0.002
	100 %	+30	3544 979 999	0.8	0.000 000	0.000
	100 %	+40	3544 979 995	-2.8	0.000 000	-0.001
	100 %	+50	3544 979 998	-0.3	0.000 000	0.000
	Batt. Endpoint	+20	3544 979 996	-2.4	0.000 000	-0.001

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3457.500	100 %	+20(Ref)	3457 499 998	0.0	0.000 000	0.000
	100 %	-30	3457 499 997	-0.6	0.000 000	0.000
	100 %	-20	3457 499 991	-6.9	0.000 000	-0.002
	100 %	-10	3457 499 994	-3.8	0.000 000	-0.001
	100 %	0	3457 500 000	1.7	0.000 000	0.001
	100 %	+10	3457 499 998	0.2	0.000 000	0.000
	100 %	+30	3457 499 995	-3.2	0.000 000	-0.001
	100 %	+40	3457 499 995	-2.6	0.000 000	-0.001
	100 %	+50	3457 499 996	-2.4	0.000 000	-0.001
	Batt. Endpoint	+20	3457 499 994	-3.9	0.000 000	-0.001
3542.490	100 %	+20(Ref)	3542 489 998	0.0	0.000 000	0.000
	100 %	-30	3542 489 995	-2.4	0.000 000	-0.001
	100 %	-20	3542 489 995	-2.7	0.000 000	-0.001
	100 %	-10	3542 489 993	-4.7	0.000 000	-0.001
	100 %	0	3542 489 996	-1.3	0.000 000	0.000
	100 %	+10	3542 489 998	0.5	0.000 000	0.000
	100 %	+30	3542 489 994	-4.0	0.000 000	-0.001
	100 %	+40	3542 489 993	-4.4	0.000 000	-0.001
	100 %	+50	3542 489 994	-3.2	0.000 000	-0.001
	Batt. Endpoint	+20	3542 489 996	-1.4	0.000 000	0.000

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3460.020	100 %	+20(Ref)	3460 019 997	0.0	0.000 000	0.000
	100 %	-30	3460 019 994	-2.8	0.000 000	-0.001
	100 %	-20	3460 019 995	-1.4	0.000 000	0.000
	100 %	-10	3460 019 995	-2.0	0.000 000	-0.001
	100 %	0	3460 019 993	-4.1	0.000 000	-0.001
	100 %	+10	3460 019 993	-3.8	0.000 000	-0.001
	100 %	+30	3460 019 993	-3.6	0.000 000	-0.001
	100 %	+40	3460 019 993	-4.3	0.000 000	-0.001
	100 %	+50	3460 019 993	-4.0	0.000 000	-0.001
	Batt. Endpoint	+20	3460 019 995	-1.5	0.000 000	0.000
3540.000	100 %	+20(Ref)	3539 999 999	0.0	0.000 000	0.000
	100 %	-30	3539 999 999	-0.6	0.000 000	0.000
	100 %	-20	3539 999 998	-1.6	0.000 000	0.000
	100 %	-10	3539 999 997	-2.8	0.000 000	-0.001
	100 %	0	3539 999 998	-1.5	0.000 000	0.000
	100 %	+10	3539 999 998	-1.7	0.000 000	0.000
	100 %	+30	3539 999 997	-2.3	0.000 000	-0.001
	100 %	+40	3539 999 994	-5.8	0.000 000	-0.002
	100 %	+50	3539 999 998	-1.1	0.000 000	0.000
	Batt. Endpoint	+20	3539 999 998	-1.4	0.000 000	0.000

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3462.510	100 %	+20(Ref)	3462 509 996	0.0	0.000 000	0.000
	100 %	-30	3462 509 993	-2.7	0.000 000	-0.001
	100 %	-20	3462 509 991	-5.1	0.000 000	-0.001
	100 %	-10	3462 509 991	-4.9	0.000 000	-0.001
	100 %	0	3462 509 994	-1.7	0.000 000	0.000
	100 %	+10	3462 509 992	-3.6	0.000 000	-0.001
	100 %	+30	3462 509 991	-5.0	0.000 000	-0.001
	100 %	+40	3462 509 989	-6.9	0.000 000	-0.002
	100 %	+50	3462 509 988	-7.6	0.000 000	-0.002
	Batt. Endpoint	+20	3462 509 987	-8.6	0.000 000	-0.002
3537.480	100 %	+20(Ref)	3537 479 986	0.0	0.000 000	0.000
	100 %	-30	3537 479 967	-18.2	-0.000 001	-0.005
	100 %	-20	3537 479 974	-11.8	0.000 000	-0.003
	100 %	-10	3537 479 971	-14.3	0.000 000	-0.004
	100 %	0	3537 479 980	-5.1	0.000 000	-0.001
	100 %	+10	3537 479 977	-8.2	0.000 000	-0.002
	100 %	+30	3537 479 980	-5.7	0.000 000	-0.002
	100 %	+40	3537 479 972	-13.2	0.000 000	-0.004
	100 %	+50	3537 479 979	-6.1	0.000 000	-0.002
	Batt. Endpoint	+20	3537 479 979	-6.7	0.000 000	-0.002

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3465.000	100 %	+20(Ref)	3465 000 001	0.0	0.000 000	0.000
	100 %	-30	3464 999 999	-2.2	0.000 000	-0.001
	100 %	-20	3465 000 000	-0.9	0.000 000	0.000
	100 %	-10	3464 999 998	-2.8	0.000 000	-0.001
	100 %	0	3464 999 996	-4.9	0.000 000	-0.001
	100 %	+10	3465 000 000	-1.0	0.000 000	0.000
	100 %	+30	3465 000 001	0.2	0.000 000	0.000
	100 %	+40	3465 000 002	0.5	0.000 000	0.000
	100 %	+50	3464 999 997	-4.0	0.000 000	-0.001
	Batt. Endpoint	+20	3464 999 999	-1.6	0.000 000	0.000
3534.990	100 %	+20(Ref)	3534 990 000	0.0	0.000 000	0.000
	100 %	-30	3534 990 001	0.4	0.000 000	0.000
	100 %	-20	3534 990 001	0.4	0.000 000	0.000
	100 %	-10	3534 990 001	0.8	0.000 000	0.000
	100 %	0	3534 990 002	1.3	0.000 000	0.000
	100 %	+10	3534 990 000	-0.7	0.000 000	0.000
	100 %	+30	3534 989 999	-1.4	0.000 000	0.000
	100 %	+40	3534 989 999	-0.9	0.000 000	0.000
	100 %	+50	3534 990 000	-0.4	0.000 000	0.000
	Batt. Endpoint	+20	3534 990 001	1.1	0.000 000	0.000

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 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 009 998	0.0	0.000 000	0.000
	100 %	-30	3470 009 995	-3.2	0.000 000	-0.001
	100 %	-20	3470 009 996	-1.6	0.000 000	0.000
	100 %	-10	3470 009 995	-3.1	0.000 000	-0.001
	100 %	0	3470 009 998	0.0	0.000 000	0.000
	100 %	+10	3470 009 994	-3.7	0.000 000	-0.001
	100 %	+30	3470 009 996	-2.2	0.000 000	-0.001
	100 %	+40	3470 009 995	-3.2	0.000 000	-0.001
	100 %	+50	3470 009 998	0.6	0.000 000	0.000
	Batt. Endpoint	+20	3470 009 993	-4.9	0.000 000	-0.001
3529.980	100 %	+20(Ref)	3529 979 999	0.0	0.000 000	0.000
	100 %	-30	3529 979 998	-1.5	0.000 000	0.000
	100 %	-20	3529 979 997	-2.1	0.000 000	-0.001
	100 %	-10	3529 979 998	-1.1	0.000 000	0.000
	100 %	0	3529 979 999	-0.2	0.000 000	0.000
	100 %	+10	3529 979 998	-1.8	0.000 000	0.000
	100 %	+30	3529 979 998	-1.1	0.000 000	0.000
	100 %	+40	3529 979 999	-0.3	0.000 000	0.000
	100 %	+50	3529 979 999	-0.3	0.000 000	0.000
	Batt. Endpoint	+20	3529 979 999	-0.7	0.000 000	0.000

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3475.020	100 %	+20(Ref)	3475 019 999	0.0	0.000 000	0.000
	100 %	-30	3475 019 996	-3.0	0.000 000	-0.001
	100 %	-20	3475 019 995	-4.2	0.000 000	-0.001
	100 %	-10	3475 019 996	-3.6	0.000 000	-0.001
	100 %	0	3475 019 996	-2.8	0.000 000	-0.001
	100 %	+10	3475 019 996	-3.1	0.000 000	-0.001
	100 %	+30	3475 019 998	-1.6	0.000 000	0.000
	100 %	+40	3475 019 994	-5.0	0.000 000	-0.001
	100 %	+50	3475 019 997	-2.0	0.000 000	-0.001
	Batt. Endpoint	+20	3475 019 997	-2.5	0.000 000	-0.001
3525.000	100 %	+20(Ref)	3524 999 997	0.0	0.000 000	0.000
	100 %	-30	3524 999 995	-2.0	0.000 000	-0.001
	100 %	-20	3524 999 999	2.1	0.000 000	0.001
	100 %	-10	3524 999 996	-1.0	0.000 000	0.000
	100 %	0	3524 999 997	-0.7	0.000 000	0.000
	100 %	+10	3524 999 999	1.3	0.000 000	0.000
	100 %	+30	3524 999 999	2.0	0.000 000	0.001
	100 %	+40	3524 999 995	-2.3	0.000 000	-0.001
	100 %	+50	3524 999 995	-2.5	0.000 000	-0.001
	Batt. Endpoint	+20	3524 999 998	0.3	0.000 000	0.000

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3480.000	100 %	+20(Ref)	3479 999 996	0.0	0.000 000	0.000
	100 %	-30	3479 999 995	-1.4	0.000 000	0.000
	100 %	-20	3479 999 993	-3.3	0.000 000	-0.001
	100 %	-10	3479 999 995	-1.5	0.000 000	0.000
	100 %	0	3479 999 992	-4.8	0.000 000	-0.001
	100 %	+10	3479 999 992	-4.1	0.000 000	-0.001
	100 %	+30	3479 999 996	-0.5	0.000 000	0.000
	100 %	+40	3479 999 995	-1.6	0.000 000	0.000
	100 %	+50	3479 999 994	-2.3	0.000 000	-0.001
	Batt. Endpoint	+20	3479 999 992	-3.9	0.000 000	-0.001
3519.990	100 %	+20(Ref)	3519 989 998	0.0	0.000 000	0.000
	100 %	-30	3519 989 995	-2.2	0.000 000	-0.001
	100 %	-20	3519 989 997	-1.0	0.000 000	0.000
	100 %	-10	3519 989 996	-1.9	0.000 000	-0.001
	100 %	0	3519 989 995	-2.4	0.000 000	-0.001
	100 %	+10	3519 989 995	-3.0	0.000 000	-0.001
	100 %	+30	3519 989 995	-2.6	0.000 000	-0.001
	100 %	+40	3519 989 997	-0.4	0.000 000	0.000
	100 %	+50	3519 989 996	-1.9	0.000 000	-0.001
	Batt. Endpoint	+20	3519 989 996	-2.0	0.000 000	-0.001

- ▣ BandWidth: 70 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3485.010	100 %	+20(Ref)	3485 009 998	0.0	0.000 000	0.000
	100 %	-30	3485 009 996	-2.6	0.000 000	-0.001
	100 %	-20	3485 009 995	-3.1	0.000 000	-0.001
	100 %	-10	3485 009 995	-3.6	0.000 000	-0.001
	100 %	0	3485 009 995	-3.8	0.000 000	-0.001
	100 %	+10	3485 009 996	-2.2	0.000 000	-0.001
	100 %	+30	3485 009 994	-4.1	0.000 000	-0.001
	100 %	+40	3485 009 995	-3.6	0.000 000	-0.001
	100 %	+50	3485 009 995	-3.6	0.000 000	-0.001
	Batt. Endpoint	+20	3485 009 995	-3.5	0.000 000	-0.001
3514.980	100 %	+20(Ref)	3514 979 997	0.0	0.000 000	0.000
	100 %	-30	3514 979 995	-2.5	0.000 000	-0.001
	100 %	-20	3514 979 994	-3.7	0.000 000	-0.001
	100 %	-10	3514 979 994	-3.0	0.000 000	-0.001
	100 %	0	3514 979 995	-2.0	0.000 000	-0.001
	100 %	+10	3514 979 995	-2.0	0.000 000	-0.001
	100 %	+30	3514 979 997	-0.6	0.000 000	0.000
	100 %	+40	3514 979 993	-4.0	0.000 000	-0.001
	100 %	+50	3514 979 995	-1.8	0.000 000	-0.001
	Batt. Endpoint	+20	3514 979 998	0.5	0.000 000	0.000

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3490.020	100 %	+20(Ref)	3490 019 998	0.0	0.000 000	0.000
	100 %	-30	3490 019 997	-1.7	0.000 000	0.000
	100 %	-20	3490 019 997	-1.7	0.000 000	0.000
	100 %	-10	3490 019 997	-1.7	0.000 000	0.000
	100 %	0	3490 019 998	0.0	0.000 000	0.000
	100 %	+10	3490 019 998	-0.7	0.000 000	0.000
	100 %	+30	3490 019 994	-4.0	0.000 000	-0.001
	100 %	+40	3490 019 998	-0.4	0.000 000	0.000
	100 %	+50	3490 019 995	-3.4	0.000 000	-0.001
	Batt. Endpoint	+20	3490 019 998	-1.0	0.000 000	0.000
3510.000	100 %	+20(Ref)	3509 999 999	0.0	0.000 000	0.000
	100 %	-30	3509 999 999	-0.6	0.000 000	0.000
	100 %	-20	3509 999 996	-2.7	0.000 000	-0.001
	100 %	-10	3509 999 998	-1.0	0.000 000	0.000
	100 %	0	3509 999 994	-5.0	0.000 000	-0.001
	100 %	+10	3509 999 994	-4.8	0.000 000	-0.001
	100 %	+30	3509 999 998	-1.4	0.000 000	0.000
	100 %	+40	3509 999 998	-1.0	0.000 000	0.000
	100 %	+50	3509 999 996	-3.1	0.000 000	-0.001
	Batt. Endpoint	+20	3509 999 996	-3.4	0.000 000	-0.001

- ▣ BandWidth: 90 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3495.000	100 %	+20(Ref)	3494 999 995	0.0	0.000 000	0.000
	100 %	-30	3494 999 990	-5.0	0.000 000	-0.001
	100 %	-20	3494 999 989	-6.1	0.000 000	-0.002
	100 %	-10	3494 999 993	-1.8	0.000 000	-0.001
	100 %	0	3494 999 993	-2.1	0.000 000	-0.001
	100 %	+10	3494 999 991	-4.0	0.000 000	-0.001
	100 %	+30	3494 999 991	-3.9	0.000 000	-0.001
	100 %	+40	3494 999 993	-1.4	0.000 000	0.000
	100 %	+50	3494 999 990	-4.8	0.000 000	-0.001
	Batt. Endpoint	+20	3494 999 995	-0.1	0.000 000	0.000
3504.990	100 %	+20(Ref)	3504 989 999	0.0	0.000 000	0.000
	100 %	-30	3504 989 996	-2.7	0.000 000	-0.001
	100 %	-20	3504 989 997	-2.1	0.000 000	-0.001
	100 %	-10	3504 989 998	-1.5	0.000 000	0.000
	100 %	0	3504 989 995	-3.7	0.000 000	-0.001
	100 %	+10	3504 989 999	-0.5	0.000 000	0.000
	100 %	+30	3504 989 995	-4.1	0.000 000	-0.001
	100 %	+40	3504 989 996	-2.7	0.000 000	-0.001
	100 %	+50	3504 989 996	-2.7	0.000 000	-0.001
	Batt. Endpoint	+20	3504 989 997	-2.6	0.000 000	-0.001

- ▣ BandWidth: 100 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3500.010	100 %	+20(Ref)	3500 009 998	0.0	0.000 000	0.000
	100 %	-30	3500 009 993	-4.7	0.000 000	-0.001
	100 %	-20	3500 009 994	-3.8	0.000 000	-0.001
	100 %	-10	3500 009 994	-3.8	0.000 000	-0.001
	100 %	0	3500 009 996	-2.6	0.000 000	-0.001
	100 %	+10	3500 009 995	-2.7	0.000 000	-0.001
	100 %	+30	3500 009 995	-2.7	0.000 000	-0.001
	100 %	+40	3500 009 993	-4.8	0.000 000	-0.001
	100 %	+50	3500 009 994	-4.6	0.000 000	-0.001
	Batt. Endpoint	+20	3500 009 993	-4.7	0.000 000	-0.001

9. TEST DATA (3700 MHz - 3980 MHz)

9.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3705.00		PI/2 BPSK	-19.89	19.15	12.08	3.16	H		0.641	28.07	1	12
		QPSK	-19.92	19.12	12.08	3.16	H		0.637	28.04		
		16-QAM	-20.87	18.17	12.08	3.16	H		0.512	27.09		
		64-QAM	-22.49	16.55	12.08	3.16	H		0.352	25.47		
		256-QAM	-24.47	14.57	12.08	3.16	H		0.223	23.49		
3840.00	Sub6 n77(78)/ 10 MHz [30 kHz]	PI/2 BPSK	-21.00	19.66	11.58	3.21	H	< 1.00	0.635	28.03	1	12
		QPSK	-21.03	19.63	11.58	3.21	H		0.631	28.00		
		16-QAM	-22.11	18.55	11.58	3.21	H		0.492	26.92		
		64-QAM	-23.62	17.04	11.58	3.21	H		0.348	25.41		
		256-QAM	-25.61	15.05	11.58	3.21	H		0.220	23.42		
3975.00		PI/2 BPSK	-22.14	19.00	11.70	3.28	H		0.552	27.42	1	1
		QPSK	-22.22	18.92	11.70	3.28	H		0.542	27.34		
		16-QAM	-23.15	17.99	11.70	3.28	H		0.438	26.41		
		64-QAM	-24.72	16.42	11.70	3.28	H		0.305	24.84		
		256-QAM	-26.66	14.48	11.70	3.28	H		0.195	22.90		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3707.51		PI/2 BPSK	-20.06	19.01	12.08	3.16	H	< 1.00	0.621	27.93	1	19
		QPSK	-20.13	18.94	12.08	3.16	H		0.611	27.86		
		16-QAM	-21.11	17.96	12.08	3.16	H		0.488	26.88		
		64-QAM	-22.64	16.43	12.08	3.16	H		0.343	25.35		
		256-QAM	-24.60	14.47	12.08	3.16	H		0.218	23.39		
3840.00	Sub6 n77(78)/ 15 MHz [30 kHz]	PI/2 BPSK	-20.95	19.71	11.58	3.21	H	< 1.00	0.643	28.08	1	19
		QPSK	-21.10	19.56	11.58	3.21	H		0.621	27.93		
		16-QAM	-22.05	18.61	11.58	3.21	H		0.499	26.98		
		64-QAM	-23.57	17.09	11.58	3.21	H		0.352	25.46		
		256-QAM	-25.56	15.10	11.58	3.21	H		0.222	23.47		
3972.48		PI/2 BPSK	-21.95	19.13	11.69	3.28	H	< 1.00	0.568	27.54	1	1
		QPSK	-22.02	19.06	11.69	3.28	H		0.558	27.47		
		16-QAM	-22.94	18.14	11.69	3.28	H		0.452	26.55		
		64-QAM	-24.56	16.52	11.69	3.28	H		0.311	24.93		
		256-QAM	-26.53	14.55	11.69	3.28	H		0.198	22.96		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3710.01	Sub6 n77(78)/ 20 MHz [30 kHz]	PI/2 BPSK	-19.92	19.15	12.08	3.16	H	< 1.00	0.641	28.07	1	25
		QPSK	-20.05	19.02	12.08	3.16	H		0.622	27.94		
		16-QAM	-21.04	18.03	12.08	3.16	H		0.495	26.95		
		64-QAM	-22.54	16.53	12.08	3.16	H		0.351	25.45		
		256-QAM	-24.51	14.56	12.08	3.16	H		0.223	23.48		
3840.00		PI/2 BPSK	-20.87	19.79	11.58	3.21	H		0.655	28.16	1	1
		QPSK	-20.94	19.72	11.58	3.21	H		0.644	28.09		
		16-QAM	-21.89	18.77	11.58	3.21	H		0.518	27.14		
		64-QAM	-23.52	17.14	11.58	3.21	H		0.356	25.51		
		256-QAM	-25.49	15.17	11.58	3.21	H		0.226	23.54		
3969.99		PI/2 BPSK	-21.87	19.21	11.69	3.28	H		0.578	27.62	1	1
		QPSK	-21.92	19.16	11.69	3.28	H		0.571	27.57		
		16-QAM	-22.87	18.21	11.69	3.28	H		0.459	26.62		
		64-QAM	-24.43	16.65	11.69	3.28	H		0.321	25.06		
		256-QAM	-26.35	14.73	11.69	3.28	H		0.206	23.14		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3712.50	Sub6 n77(78)/ 25 MHz [30 kHz]	PI/2 BPSK	-19.97	19.12	12.08	3.17	H	< 1.00	0.635	28.03	1	1
		QPSK	-19.98	19.11	12.08	3.17	H		0.634	28.02		
		16-QAM	-20.93	18.16	12.08	3.17	H		0.509	27.07		
		64-QAM	-22.56	16.53	12.08	3.17	H		0.350	25.44		
		256-QAM	-24.52	14.57	12.08	3.17	H		0.223	23.48		
3840.00		PI/2 BPSK	-20.84	19.82	11.58	3.21	H		0.659	28.19	1	1
		QPSK	-20.89	19.77	11.58	3.21	H		0.652	28.14		
		16-QAM	-21.83	18.83	11.58	3.21	H		0.525	27.20		
		64-QAM	-23.49	17.17	11.58	3.21	H		0.358	25.54		
		256-QAM	-25.44	15.22	11.58	3.21	H		0.229	23.59		
3967.50		PI/2 BPSK	-21.80	19.28	11.69	3.28	H		0.587	27.69	1	1
		QPSK	-21.89	19.19	11.69	3.28	H		0.575	27.60		
		16-QAM	-22.82	18.26	11.69	3.28	H		0.465	26.67		
		64-QAM	-24.43	16.65	11.69	3.28	H		0.321	25.06		
		256-QAM	-26.38	14.70	11.69	3.28	H		0.205	23.11		

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	-19.81	19.28	12.08	3.17	H	< 1.00	0.659	28.19	1	39
		QPSK	-19.98	19.11	12.08	3.17	H		0.634	28.02		
		16-QAM	-20.90	18.19	12.08	3.17	H		0.513	27.10		
		64-QAM	-22.48	16.61	12.08	3.17	H		0.356	25.52		
		256-QAM	-24.45	14.64	12.08	3.17	H		0.226	23.55		
3840.00		PI/2 BPSK	-20.90	19.76	11.58	3.21	H		0.650	28.13	1	1
		QPSK	-20.94	19.72	11.58	3.21	H		0.644	28.09		
		16-QAM	-21.92	18.74	11.58	3.21	H		0.514	27.11		
		64-QAM	-23.48	17.18	11.58	3.21	H		0.359	25.55		
		256-QAM	-25.41	15.25	11.58	3.21	H		0.230	23.62		
3964.98		PI/2 BPSK	-21.83	19.29	11.67	3.28	H		0.586	27.68	1	1
		QPSK	-21.87	19.25	11.67	3.28	H		0.581	27.64		
		16-QAM	-22.83	18.29	11.67	3.28	H		0.466	26.68		
		64-QAM	-24.38	16.74	11.67	3.28	H		0.326	25.13		
		256-QAM	-26.32	14.80	11.67	3.28	H		0.208	23.19		

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	-19.96	19.15	12.07	3.17	H	< 1.00	0.638	28.05	1	53
		QPSK	-19.99	19.12	12.07	3.17	H		0.634	28.02		
		16-QAM	-20.95	18.16	12.07	3.17	H		0.508	27.06		
		64-QAM	-22.38	16.73	12.07	3.17	H		0.366	25.63		
		256-QAM	-24.47	14.64	12.07	3.17	H		0.226	23.54		
3840.00		PI/2 BPSK	-20.80	19.86	11.58	3.21	H		0.665	28.23	1	1
		QPSK	-20.88	19.78	11.58	3.21	H		0.653	28.15		
		16-QAM	-21.83	18.83	11.58	3.21	H		0.525	27.20		
		64-QAM	-23.42	17.24	11.58	3.21	H		0.364	25.61		
		256-QAM	-25.36	15.30	11.58	3.21	H		0.233	23.67		
3960.00		PI/2 BPSK	-21.61	19.54	11.65	3.27	H		0.619	27.92	1	1
		QPSK	-21.67	19.48	11.65	3.27	H		0.611	27.86		
		16-QAM	-22.60	18.55	11.65	3.27	H		0.493	26.93		
		64-QAM	-24.22	16.93	11.65	3.27	H		0.340	25.31		
		256-QAM	-26.19	14.96	11.65	3.27	H		0.216	23.34		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3725.10	Sub6 n77(78)/ 50 MHz [30 kHz]	PI/2 BPSK	-19.83	19.28	12.06	3.17	H	< 1.00	0.656	28.17	1	66
		QPSK	-19.92	19.19	12.06	3.17	H		0.643	28.08		
		16-QAM	-20.95	18.16	12.06	3.17	H		0.507	27.05		
		64-QAM	-22.51	16.60	12.06	3.17	H		0.354	25.49		
		256-QAM	-24.48	14.63	12.06	3.17	H		0.225	23.52		
3840.00		PI/2 BPSK	-20.81	19.85	11.58	3.21	H		0.664	28.22	1	1
		QPSK	-20.86	19.80	11.58	3.21	H		0.656	28.17		
		16-QAM	-21.82	18.84	11.58	3.21	H		0.526	27.21		
		64-QAM	-23.41	17.25	11.58	3.21	H		0.365	25.62		
		256-QAM	-25.37	15.29	11.58	3.21	H		0.232	23.66		
3954.99		PI/2 BPSK	-21.48	19.62	11.63	3.27	H		0.628	27.98	1	1
		QPSK	-21.55	19.55	11.63	3.27	H		0.618	27.91		
		16-QAM	-22.48	18.62	11.63	3.27	H		0.499	26.98		
		64-QAM	-24.09	17.01	11.63	3.27	H		0.344	25.37		
		256-QAM	-26.04	15.06	11.63	3.27	H		0.220	23.42		

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
3730.02	Sub6 n77(78)/ 60 MHz [30 kHz]	PI/2 BPSK	-19.96	19.18	12.04	3.18	H	< 1.00	0.637	28.04	1	82
		QPSK	-20.03	19.11	12.04	3.18	H		0.627	27.97		
		16-QAM	-20.99	18.15	12.04	3.18	H		0.502	27.01		
		64-QAM	-22.57	16.57	12.04	3.18	H		0.349	25.43		
		256-QAM	-24.51	14.63	12.04	3.18	H		0.223	23.49		
3840.00		PI/2 BPSK	-20.66	20.00	11.58	3.21	H		0.687	28.37	1	1
		QPSK	-20.70	19.96	11.58	3.21	H		0.681	28.33		
		16-QAM	-21.64	19.02	11.58	3.21	H		0.548	27.39		
		64-QAM	-23.30	17.36	11.58	3.21	H		0.374	25.73		
		256-QAM	-25.26	15.40	11.58	3.21	H		0.238	23.77		
3949.98		PI/2 BPSK	-21.54	19.49	11.61	3.26	H		0.608	27.84	1	1
		QPSK	-21.62	19.41	11.61	3.26	H		0.597	27.76		
		16-QAM	-22.56	18.47	11.61	3.26	H		0.481	26.82		
		64-QAM	-24.18	16.85	11.61	3.26	H		0.331	25.20		
		256-QAM	-26.12	14.91	11.61	3.26	H		0.212	23.26		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3735.00	Sub6 n77(78)/ 70 MHz [30 kHz]	PI/2 BPSK	-20.00	19.26	12.02	3.18	H	< 1.00	0.646	28.10	1	1
		QPSK	-20.07	19.19	12.02	3.18	H		0.635	28.03		
		16-QAM	-21.04	18.22	12.02	3.18	H		0.508	27.06		
		64-QAM	-22.60	16.66	12.02	3.18	H		0.355	25.50		
		256-QAM	-24.52	14.74	12.02	3.18	H		0.228	23.58		
3840.00		PI/2 BPSK	-20.60	20.06	11.58	3.21	H		0.697	28.43	1	1
		QPSK	-20.67	19.99	11.58	3.21	H		0.685	28.36		
		16-QAM	-21.63	19.03	11.58	3.21	H		0.550	27.40		
		64-QAM	-23.22	17.44	11.58	3.21	H		0.381	25.81		
		256-QAM	-25.15	15.51	11.58	3.21	H		0.244	23.88		
3945.00		PI/2 BPSK	-21.55	19.46	11.60	3.26	H	0.603	27.80	1	1	
		QPSK	-21.63	19.38	11.60	3.26	H	0.592	27.72			
		16-QAM	-22.56	18.45	11.60	3.26	H	0.478	26.79			
		64-QAM	-24.15	16.86	11.60	3.26	H	0.331	25.20			
		256-QAM	-26.10	14.91	11.60	3.26	H	0.211	23.25			

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3740.01	Sub6 n77(78)/ 80 MHz [30 kHz]	PI/2 BPSK	-19.94	19.44	12.00	3.18	H	< 1.00	0.670	28.26	1	108
		QPSK	-20.07	19.31	12.00	3.18	H		0.650	28.13		
		16-QAM	-20.98	18.40	12.00	3.18	H		0.527	27.22		
		64-QAM	-22.65	16.73	12.00	3.18	H		0.359	25.55		
		256-QAM	-24.61	14.77	12.00	3.18	H		0.229	23.59		
3840.00		PI/2 BPSK	-20.44	20.22	11.58	3.21	H		0.723	28.59	1	1
		QPSK	-20.51	20.15	11.58	3.21	H		0.711	28.52		
		16-QAM	-21.44	19.22	11.58	3.21	H		0.574	27.59		
		64-QAM	-23.07	17.59	11.58	3.21	H		0.394	25.96		
		256-QAM	-25.05	15.61	11.58	3.21	H		0.250	23.98		
3939.99		PI/2 BPSK	-21.34	19.65	11.58	3.25	H		0.628	27.98	1	108
		QPSK	-21.50	19.49	11.58	3.25	H		0.605	27.82		
		16-QAM	-22.49	18.50	11.58	3.25	H		0.482	26.83		
		64-QAM	-24.16	16.83	11.58	3.25	H		0.328	25.16		
		256-QAM	-25.96	15.03	11.58	3.25	H		0.217	23.36		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3745.02	Sub6 n77(78)/ 90 MHz [30 kHz]	PI/2 BPSK	-19.94	19.55	11.97	3.19	H	< 1.00	0.681	28.33	1	1
		QPSK	-19.97	19.52	11.97	3.19	H		0.676	28.30		
		16-QAM	-20.88	18.61	11.97	3.19	H		0.548	27.39		
		64-QAM	-22.49	17.00	11.97	3.19	H		0.378	25.78		
		256-QAM	-24.41	15.08	11.97	3.19	H		0.243	23.86		
3840.00		PI/2 BPSK	-20.46	20.20	11.58	3.21	H		0.719	28.57	1	1
		QPSK	-20.49	20.17	11.58	3.21	H		0.714	28.54		
		16-QAM	-21.54	19.12	11.58	3.21	H		0.561	27.49		
		64-QAM	-23.12	17.54	11.58	3.21	H		0.390	25.91		
		256-QAM	-25.07	15.59	11.58	3.21	H		0.249	23.96		
3934.98		PI/2 BPSK	-21.37	19.68	11.56	3.25	H		0.630	27.99	1	1
		QPSK	-21.39	19.66	11.56	3.25	H		0.627	27.97		
		16-QAM	-22.36	18.69	11.56	3.25	H		0.501	27.00		
		64-QAM	-23.92	17.13	11.56	3.25	H		0.350	25.44		
		256-QAM	-25.85	15.20	11.56	3.25	H		0.224	23.51		

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
3750.00	Sub6 n77(78)/ 100 MHz [30 kHz]	PI/2 BPSK	-19.98	19.59	11.95	3.19	H	< 1.00	0.684	28.35	1	1
		QPSK	-20.00	19.57	11.95	3.19	H		0.681	28.33		
		16-QAM	-20.99	18.58	11.95	3.19	H		0.542	27.34		
		64-QAM	-22.57	17.00	11.95	3.19	H		0.377	25.76		
		256-QAM	-24.50	15.07	11.95	3.19	H		0.242	23.83		
3840.00		PI/2 BPSK	-20.39	20.27	11.58	3.21	H		0.731	28.64	1	1
		QPSK	-20.41	20.25	11.58	3.21	H		0.728	28.62		
		16-QAM	-21.58	19.08	11.58	3.21	H		0.556	27.45		
		64-QAM	-23.01	17.65	11.58	3.21	H		0.400	26.02		
		256-QAM	-24.95	15.71	11.58	3.21	H		0.256	24.08		
3930.00		PI/2 BPSK	-21.35	19.77	11.54	3.25	H		0.640	28.06	1	1
		QPSK	-21.39	19.73	11.54	3.25	H		0.634	28.02		
		16-QAM	-22.14	18.98	11.54	3.25	H		0.533	27.27		
		64-QAM	-23.93	17.19	11.54	3.25	H		0.353	25.48		
		256-QAM	-25.89	15.23	11.54	3.25	H		0.225	23.52		

9.2 RADIATED SPURIOUS EMISSIONS

NR Band:	<u>n77(78)</u>
Bandwidth:	<u>100 MHz</u>
Modulation:	<u>PI/2 BPSK</u>
Distance:	<u>1 meters</u>
SCS:	<u>30 kHz</u>

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
650000 (3750.00)	7 500.00	-63.54	11.56	-56.05	4.72	V	-49.21	-13.00	1	1
	11 250.00	-63.67	11.54	-52.82	5.86	V	-47.14	-13.00		
	15 000.00	-56.29	12.94	-49.58	6.88	V	-43.52	-13.00		
656000 (3840.00)	7 680.00	-63.26	11.94	-56.39	4.78	V	-49.23	-13.00	1	1
	11 520.00	-63.86	11.50	-52.76	5.93	V	-47.19	-13.00		
	15 360.00	-58.97	15.31	-51.51	6.97	V	-43.17	-13.00		
662000 (3930.00)	7 860.00	-62.75	11.79	-55.34	4.83	V	-48.38	-13.00	1	1
	11 790.00	-63.24	12.84	-53.61	6.03	V	-46.80	-13.00		
	15 720.00	-60.14	16.76	-53.02	7.05	V	-43.31	-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	PI/2 BPSK	Full RB	0	4.10	13.00
			QPSK			5.26	
			16-QAM			5.83	
			64-QAM			6.01	
			256-QAM			6.17	
	15 MHz		PI/2 BPSK			4.03	
			QPSK			5.14	
			16-QAM			5.62	
			64-QAM			5.99	
			256-QAM			6.15	
	20 MHz		PI/2 BPSK			4.45	
			QPSK			5.22	
			16-QAM			5.68	
			64-QAM			5.84	
			256-QAM			6.23	
	25 MHz		PI/2 BPSK			4.88	
			QPSK			5.28	
			16-QAM			5.70	
			64-QAM			6.05	
			256-QAM			6.29	
	30 MHz		PI/2 BPSK			4.57	
			QPSK			5.13	
			16-QAM			5.66	
			64-QAM			5.95	
			256-QAM			6.14	
	40 MHz		PI/2 BPSK			4.25	
			QPSK			5.18	
			16-QAM			5.66	
			64-QAM			5.95	
			256-QAM			6.19	

	50 MHz	PI/2 BPSK			4.15
		QPSK			5.24
		16-QAM			5.76
		64-QAM			5.93
		256-QAM			6.17
	60 MHz	PI/2 BPSK			5.21
		QPSK			5.50
		16-QAM			5.78
		64-QAM			6.08
		256-QAM			6.24
	70 MHz	PI/2 BPSK			4.18
		QPSK			5.24
		16-QAM			5.69
		64-QAM			5.93
		256-QAM			6.19
	80 MHz	PI/2 BPSK			4.21
		QPSK			5.26
		16-QAM			5.79
		64-QAM			6.00
		256-QAM			6.26
	90 MHz	PI/2 BPSK			4.18
		QPSK			5.30
		16-QAM			5.84
		64-QAM			6.01
		256-QAM			6.25
	100 MHz	PI/2 BPSK			4.17
		QPSK			5.29
		16-QAM			5.77
		64-QAM			5.99
		256-QAM			6.31

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 425 ~ 484.

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	PI/2 BPSK	Full RB	0	8.6598
			QPSK			8.6525
			16-QAM			8.5959
			64-QAM			8.6840
			256-QAM			8.6783
	15 MHz		PI/2 BPSK			12.972
			QPSK			12.994
			16-QAM			12.938
			64-QAM			12.957
			256-QAM			12.947
	20 MHz		PI/2 BPSK			17.967
			QPSK			17.920
			16-QAM			17.996
			64-QAM			17.940
			256-QAM			17.972
	25 MHz		PI/2 BPSK			22.936
			QPSK			23.053
			16-QAM			22.970
			64-QAM			23.036
			256-QAM			22.940
	30 MHz		PI/2 BPSK			26.950
			QPSK			26.964
			16-QAM			27.084
			64-QAM			27.043
			256-QAM			26.882
	40 MHz		PI/2 BPSK			35.959
			QPSK			35.994
			16-QAM			35.929
			64-QAM			35.958
			256-QAM			35.821

	50 MHz	PI/2 BPSK	45.970
		QPSK	45.885
		16-QAM	46.094
		64-QAM	45.931
		256-QAM	46.104
	60 MHz	PI/2 BPSK	58.208
		QPSK	58.062
		16-QAM	58.165
		64-QAM	58.039
		256-QAM	58.125
	70 MHz	PI/2 BPSK	64.783
		QPSK	64.687
		16-QAM	64.672
		64-QAM	64.742
		256-QAM	64.724
	80 MHz	PI/2 BPSK	77.559
		QPSK	77.415
		16-QAM	77.713
		64-QAM	77.747
		256-QAM	77.565
	90 MHz	PI/2 BPSK	87.169
		QPSK	87.205
		16-QAM	87.077
		64-QAM	86.973
		256-QAM	87.248
	100 MHz	PI/2 BPSK	96.845
		QPSK	96.653
		16-QAM	96.589
		64-QAM	96.869
		256-QAM	96.928

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 485 ~ 544.

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	8.9432	29.116	-63.926	-34.810	-13.00
		3840.000	9.4317	29.116	-63.482	-34.366	
		3975.000	10.0000	29.116	-63.853	-34.737	
	15	3707.520	8.8335	29.116	-63.361	-34.245	
		3840.000	9.9302	29.116	-63.423	-34.307	
		3972.480	9.9801	29.116	-62.815	-33.699	
	20	3710.010	4.9751	28.533	-62.044	-33.511	
		3840.000	9.4417	29.116	-63.127	-34.011	
		3969.990	9.1924	29.116	-63.375	-34.259	
	25	3712.500	8.8933	29.116	-62.792	-33.676	
		3840.000	4.9751	28.533	-63.344	-34.811	
		3967.500	6.0419	29.116	-63.761	-34.645	
	30	3715.020	4.9552	28.533	-62.327	-33.794	
		3840.000	8.2752	29.116	-63.356	-34.240	
		3964.980	8.0060	29.116	-62.877	-33.761	
	40	3720.000	4.9851	28.533	-63.516	-34.983	
		3840.000	9.0030	29.116	-63.108	-33.992	
		3960.000	9.8006	29.116	-62.676	-33.560	
	50	3725.010	8.2951	29.116	-63.805	-34.689	
		3840.000	7.9661	29.116	-63.045	-33.929	
		3954.990	5.9821	29.116	-62.291	-33.175	
	60	3730.020	5.5634	29.116	-64.451	-35.335	
		3840.000	8.2553	29.116	-62.257	-33.141	
		3949.980	8.3350	29.116	-63.736	-34.620	
	70	3735.000	9.4915	29.116	-63.443	-34.327	
		3840.000	8.2752	29.116	-63.384	-34.268	
		3945.000	9.7607	29.116	-63.162	-34.046	
	80	3740.010	9.9202	29.116	-63.076	-33.960	
		3840.000	9.5613	29.116	-62.989	-33.873	
		3939.990	5.2044	29.116	-63.808	-34.692	
	90	3745.020	8.2553	29.116	-63.264	-34.148	
		3840.000	7.9960	29.116	-63.922	-34.806	
		3934.980	8.2752	29.116	-63.603	-34.487	
	100	3750.000	9.7308	29.116	-63.739	-34.623	
		3840.000	6.0020	29.116	-62.740	-33.624	
		3930.000	9.6710	29.116	-63.399	-34.283	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 545 ~ 616.

2. Result (dBm) = Measurement Maximum Data (dBm) + Factor (dB)

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

3. Factor(dB)

Frequency Range (GHz)	Factor [dB]
0.03 – 1	27.012
1 – 5	28.533
5 – 10	29.116
10 – 15	30.025
15 – 20	31.052
Above 20	31.613

9.6 BAND EDGE

1. Plots of the EUT's Band Edge are shown Page 617 ~ 760.

2. Duty Cycle factor already applied on the factor.

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

- Result(dBm) = Reading + Factor

- Duty Cycle Factor(dB) = 6.990

9.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ▣ BandWidth: 10 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3705.000	100 %	+20(Ref)	3704 999 998	0.0	0.000 000	0.000
	100 %	-30	3704 999 996	-1.8	0.000 000	0.000
	100 %	-20	3704 999 996	-1.5	0.000 000	0.000
	100 %	-10	3704 999 994	-3.8	0.000 000	-0.001
	100 %	0	3704 999 995	-2.4	0.000 000	-0.001
	100 %	+10	3704 999 998	0.0	0.000 000	0.000
	100 %	+30	3704 999 994	-3.5	0.000 000	-0.001
	100 %	+40	3705 000 000	2.7	0.000 000	0.001
	100 %	+50	3704 999 997	-0.8	0.000 000	0.000
	Batt. Endpoint	+20	3704 999 997	-1.2	0.000 000	0.000
3975.000	100 %	+20(Ref)	3975 000 000	0.0	0.000 000	0.000
	100 %	-30	3974 999 996	-3.4	0.000 000	-0.001
	100 %	-20	3974 999 995	-4.5	0.000 000	-0.001
	100 %	-10	3974 999 997	-2.5	0.000 000	-0.001
	100 %	0	3974 999 999	-0.6	0.000 000	0.000
	100 %	+10	3974 999 998	-1.5	0.000 000	0.000
	100 %	+30	3974 999 997	-2.6	0.000 000	-0.001
	100 %	+40	3974 999 998	-1.9	0.000 000	0.000
	100 %	+50	3974 999 996	-4.1	0.000 000	-0.001
	Batt. Endpoint	+20	3974 999 997	-3.0	0.000 000	-0.001

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3707.520	100 %	+20(Ref)	3707 519 998	0.0	0.000 000	0.000
	100 %	-30	3707 519 995	-3.1	0.000 000	-0.001
	100 %	-20	3707 519 999	0.8	0.000 000	0.000
	100 %	-10	3707 519 997	-1.6	0.000 000	0.000
	100 %	0	3707 519 997	-1.5	0.000 000	0.000
	100 %	+10	3707 519 994	-3.7	0.000 000	-0.001
	100 %	+30	3707 519 997	-1.1	0.000 000	0.000
	100 %	+40	3707 519 998	0.1	0.000 000	0.000
	100 %	+50	3707 519 998	-0.6	0.000 000	0.000
	Batt. Endpoint	+20	3707 519 997	-1.6	0.000 000	0.000
3972.480	100 %	+20(Ref)	3972 479 999	0.0	0.000 000	0.000
	100 %	-30	3972 479 997	-2.6	0.000 000	-0.001
	100 %	-20	3972 479 999	0.2	0.000 000	0.000
	100 %	-10	3972 479 997	-2.7	0.000 000	-0.001
	100 %	0	3972 479 999	-0.6	0.000 000	0.000
	100 %	+10	3972 479 994	-4.8	0.000 000	-0.001
	100 %	+30	3972 479 998	-1.1	0.000 000	0.000
	100 %	+40	3972 479 996	-3.3	0.000 000	-0.001
	100 %	+50	3972 479 994	-5.4	0.000 000	-0.001
	Batt. Endpoint	+20	3972 479 993	-6.1	0.000 000	-0.002

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3710.010	100 %	+20(Ref)	3710 009 997	0.0	0.000 000	0.000
	100 %	-30	3710 009 994	-3.1	0.000 000	-0.001
	100 %	-20	3710 009 993	-3.4	0.000 000	-0.001
	100 %	-10	3710 009 995	-1.9	0.000 000	-0.001
	100 %	0	3710 009 991	-5.4	0.000 000	-0.001
	100 %	+10	3710 009 997	0.0	0.000 000	0.000
	100 %	+30	3710 009 997	0.5	0.000 000	0.000
	100 %	+40	3710 009 995	-1.5	0.000 000	0.000
	100 %	+50	3710 009 995	-1.2	0.000 000	0.000
	Batt. Endpoint	+20	3710 009 996	-0.3	0.000 000	0.000
3969.990	100 %	+20(Ref)	3969 989 993	0.0	0.000 000	0.000
	100 %	-30	3969 989 990	-2.7	0.000 000	-0.001
	100 %	-20	3969 989 989	-3.9	0.000 000	-0.001
	100 %	-10	3969 989 990	-3.3	0.000 000	-0.001
	100 %	0	3969 989 989	-4.1	0.000 000	-0.001
	100 %	+10	3969 989 990	-2.8	0.000 000	-0.001
	100 %	+30	3969 989 987	-5.8	0.000 000	-0.001
	100 %	+40	3969 989 990	-2.6	0.000 000	-0.001
	100 %	+50	3969 989 988	-4.7	0.000 000	-0.001
	Batt. Endpoint	+20	3969 989 989	-4.1	0.000 000	-0.001

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3712.500	100 %	+20(Ref)	3712 499 995	0.0	0.000 000	0.000
	100 %	-30	3712 499 986	-9.4	0.000 000	-0.003
	100 %	-20	3712 499 991	-4.3	0.000 000	-0.001
	100 %	-10	3712 499 988	-7.6	0.000 000	-0.002
	100 %	0	3712 499 987	-8.0	0.000 000	-0.002
	100 %	+10	3712 499 990	-5.5	0.000 000	-0.001
	100 %	+30	3712 499 993	-2.2	0.000 000	-0.001
	100 %	+40	3712 499 993	-2.2	0.000 000	-0.001
	100 %	+50	3712 499 989	-6.6	0.000 000	-0.002
	Batt. Endpoint	+20	3712 499 991	-4.0	0.000 000	-0.001
3967.500	100 %	+20(Ref)	3967 499 993	0.0	0.000 000	0.000
	100 %	-30	3967 499 983	-10.0	0.000 000	-0.003
	100 %	-20	3967 499 993	-0.3	0.000 000	0.000
	100 %	-10	3967 499 988	-5.0	0.000 000	-0.001
	100 %	0	3967 499 992	-1.2	0.000 000	0.000
	100 %	+10	3967 499 987	-6.5	0.000 000	-0.002
	100 %	+30	3967 499 990	-3.7	0.000 000	-0.001
	100 %	+40	3967 499 991	-2.2	0.000 000	-0.001
	100 %	+50	3967 499 989	-3.9	0.000 000	-0.001
	Batt. Endpoint	+20	3967 499 986	-7.5	0.000 000	-0.002

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3715.020	100 %	+20(Ref)	3715 019 999	0.0	0.000 000	0.000
	100 %	-30	3715 019 995	-3.6	0.000 000	-0.001
	100 %	-20	3715 019 996	-2.6	0.000 000	-0.001
	100 %	-10	3715 019 993	-5.6	0.000 000	-0.001
	100 %	0	3715 019 997	-2.1	0.000 000	-0.001
	100 %	+10	3715 019 999	0.5	0.000 000	0.000
	100 %	+30	3715 019 997	-1.7	0.000 000	0.000
	100 %	+40	3715 019 996	-2.8	0.000 000	-0.001
	100 %	+50	3715 019 996	-2.8	0.000 000	-0.001
	Batt. Endpoint	+20	3715 019 997	-1.8	0.000 000	0.000
3964.980	100 %	+20(Ref)	3964 979 998	0.0	0.000 000	0.000
	100 %	-30	3964 979 996	-1.8	0.000 000	0.000
	100 %	-20	3964 979 994	-4.5	0.000 000	-0.001
	100 %	-10	3964 979 994	-4.1	0.000 000	-0.001
	100 %	0	3964 979 995	-2.8	0.000 000	-0.001
	100 %	+10	3964 979 993	-5.1	0.000 000	-0.001
	100 %	+30	3964 979 994	-3.6	0.000 000	-0.001
	100 %	+40	3964 979 996	-1.6	0.000 000	0.000
	100 %	+50	3964 979 999	0.7	0.000 000	0.000
	Batt. Endpoint	+20	3964 979 999	0.9	0.000 000	0.000

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3720.000	100 %	+20(Ref)	3720 000 000	0.0	0.000 000	0.000
	100 %	-30	3719 999 998	-1.7	0.000 000	0.000
	100 %	-20	3719 999 997	-2.3	0.000 000	-0.001
	100 %	-10	3719 999 998	-1.9	0.000 000	-0.001
	100 %	0	3719 999 998	-1.9	0.000 000	-0.001
	100 %	+10	3720 000 001	1.1	0.000 000	0.000
	100 %	+30	3719 999 997	-2.2	0.000 000	-0.001
	100 %	+40	3719 999 999	-0.9	0.000 000	0.000
	100 %	+50	3719 999 996	-3.4	0.000 000	-0.001
	Batt. Endpoint	+20	3719 999 997	-2.5	0.000 000	-0.001
3960.000	100 %	+20(Ref)	3959 999 997	0.0	0.000 000	0.000
	100 %	-30	3959 999 996	-1.7	0.000 000	0.000
	100 %	-20	3959 999 993	-4.8	0.000 000	-0.001
	100 %	-10	3959 999 993	-4.1	0.000 000	-0.001
	100 %	0	3959 999 993	-4.8	0.000 000	-0.001
	100 %	+10	3959 999 992	-5.2	0.000 000	-0.001
	100 %	+30	3959 999 992	-5.3	0.000 000	-0.001
	100 %	+40	3959 999 993	-4.3	0.000 000	-0.001
	100 %	+50	3959 999 994	-3.2	0.000 000	-0.001
	Batt. Endpoint	+20	3959 999 996	-1.8	0.000 000	0.000

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3725.010	100 %	+20(Ref)	3725 009 999	0.0	0.000 000	0.000
	100 %	-30	3725 009 996	-2.7	0.000 000	-0.001
	100 %	-20	3725 009 996	-2.4	0.000 000	-0.001
	100 %	-10	3725 009 998	-0.8	0.000 000	0.000
	100 %	0	3725 009 996	-2.4	0.000 000	-0.001
	100 %	+10	3725 009 995	-4.0	0.000 000	-0.001
	100 %	+30	3725 009 996	-2.8	0.000 000	-0.001
	100 %	+40	3725 009 999	0.7	0.000 000	0.000
	100 %	+50	3725 009 997	-1.8	0.000 000	0.000
	Batt. Endpoint	+20	3725 009 998	-0.5	0.000 000	0.000
3954.990	100 %	+20(Ref)	3954 989 999	0.0	0.000 000	0.000
	100 %	-30	3954 989 999	-0.4	0.000 000	0.000
	100 %	-20	3954 989 997	-2.0	0.000 000	-0.001
	100 %	-10	3954 989 996	-3.3	0.000 000	-0.001
	100 %	0	3954 989 996	-3.6	0.000 000	-0.001
	100 %	+10	3954 989 997	-2.5	0.000 000	-0.001
	100 %	+30	3954 989 993	-6.3	0.000 000	-0.002
	100 %	+40	3954 989 998	-1.4	0.000 000	0.000
	100 %	+50	3954 989 996	-3.0	0.000 000	-0.001
	Batt. Endpoint	+20	3954 989 996	-3.1	0.000 000	-0.001

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3730.020	100 %	+20(Ref)	3730 019 998	0.0	0.000 000	0.000
	100 %	-30	3730 019 997	-0.4	0.000 000	0.000
	100 %	-20	3730 019 997	-0.8	0.000 000	0.000
	100 %	-10	3730 019 999	1.1	0.000 000	0.000
	100 %	0	3730 019 993	-4.6	0.000 000	-0.001
	100 %	+10	3730 019 997	-0.9	0.000 000	0.000
	100 %	+30	3730 019 995	-2.7	0.000 000	-0.001
	100 %	+40	3730 019 998	0.4	0.000 000	0.000
	100 %	+50	3730 019 991	-6.5	0.000 000	-0.002
	Batt. Endpoint	+20	3730 019 994	-3.7	0.000 000	-0.001
3949.980	100 %	+20(Ref)	3949 979 996	0.0	0.000 000	0.000
	100 %	-30	3949 979 996	-0.6	0.000 000	0.000
	100 %	-20	3949 979 998	1.4	0.000 000	0.000
	100 %	-10	3949 979 995	-1.4	0.000 000	0.000
	100 %	0	3949 979 994	-2.9	0.000 000	-0.001
	100 %	+10	3949 979 995	-1.8	0.000 000	0.000
	100 %	+30	3949 979 994	-2.2	0.000 000	-0.001
	100 %	+40	3949 979 995	-1.5	0.000 000	0.000
	100 %	+50	3949 979 996	-0.6	0.000 000	0.000
	Batt. Endpoint	+20	3949 979 994	-2.4	0.000 000	-0.001

- ▣ BandWidth: 70 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3735.000	100 %	+20(Ref)	3734 999 999	0.0	0.000 000	0.000
	100 %	-30	3734 999 996	-3.0	0.000 000	-0.001
	100 %	-20	3734 999 997	-1.7	0.000 000	0.000
	100 %	-10	3734 999 997	-2.0	0.000 000	-0.001
	100 %	0	3734 999 996	-2.9	0.000 000	-0.001
	100 %	+10	3734 999 994	-4.8	0.000 000	-0.001
	100 %	+30	3734 999 994	-4.2	0.000 000	-0.001
	100 %	+40	3734 999 996	-3.0	0.000 000	-0.001
	100 %	+50	3734 999 996	-2.8	0.000 000	-0.001
	Batt. Endpoint	+20	3734 999 994	-4.5	0.000 000	-0.001
3945.000	100 %	+20(Ref)	3945 000 000	0.0	0.000 000	0.000
	100 %	-30	3944 999 998	-2.6	0.000 000	-0.001
	100 %	-20	3944 999 997	-3.2	0.000 000	-0.001
	100 %	-10	3944 999 999	-1.6	0.000 000	0.000
	100 %	0	3944 999 997	-3.7	0.000 000	-0.001
	100 %	+10	3944 999 995	-5.2	0.000 000	-0.001
	100 %	+30	3944 999 996	-3.8	0.000 000	-0.001
	100 %	+40	3944 999 997	-3.4	0.000 000	-0.001
	100 %	+50	3944 999 997	-3.7	0.000 000	-0.001
	Batt. Endpoint	+20	3945 000 000	0.0	0.000 000	0.000

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3740.010	100 %	+20(Ref)	3740 009 994	0.0	0.000 000	0.000
	100 %	-30	3740 009 991	-3.2	0.000 000	-0.001
	100 %	-20	3740 009 986	-7.3	0.000 000	-0.002
	100 %	-10	3740 009 990	-3.9	0.000 000	-0.001
	100 %	0	3740 009 993	-1.0	0.000 000	0.000
	100 %	+10	3740 009 988	-5.4	0.000 000	-0.001
	100 %	+30	3740 009 992	-1.9	0.000 000	0.000
	100 %	+40	3740 009 989	-4.3	0.000 000	-0.001
	100 %	+50	3740 009 990	-4.2	0.000 000	-0.001
	Batt. Endpoint	+20	3740 009 992	-1.6	0.000 000	0.000
3939.990	100 %	+20(Ref)	3939 989 999	0.0	0.000 000	0.000
	100 %	-30	3939 989 997	-2.4	0.000 000	-0.001
	100 %	-20	3939 989 997	-2.3	0.000 000	-0.001
	100 %	-10	3939 989 996	-2.6	0.000 000	-0.001
	100 %	0	3939 989 998	-0.8	0.000 000	0.000
	100 %	+10	3939 989 997	-2.5	0.000 000	-0.001
	100 %	+30	3939 989 997	-1.9	0.000 000	0.000
	100 %	+40	3939 989 996	-2.6	0.000 000	-0.001
	100 %	+50	3939 989 998	-1.4	0.000 000	0.000
	Batt. Endpoint	+20	3939 989 997	-2.2	0.000 000	-0.001

- ▣ BandWidth: 90 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

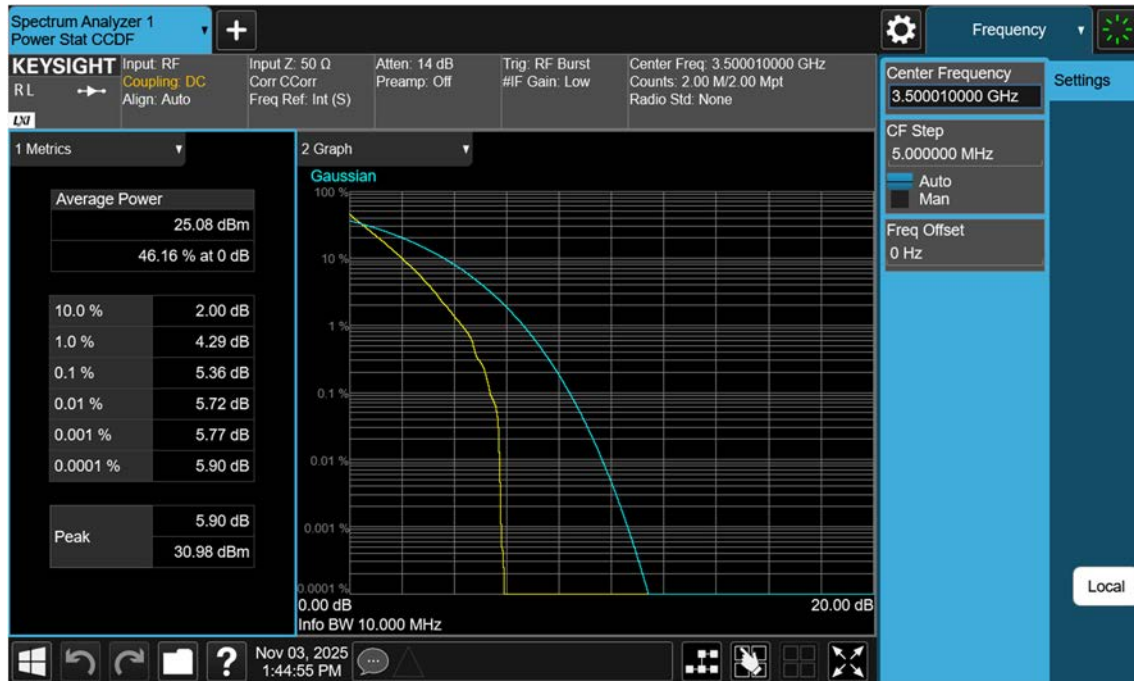
Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3745.020	100 %	+20(Ref)	3745 019 999	0.0	0.000 000	0.000
	100 %	-30	3745 019 999	-0.4	0.000 000	0.000
	100 %	-20	3745 019 997	-2.4	0.000 000	-0.001
	100 %	-10	3745 019 998	-0.7	0.000 000	0.000
	100 %	0	3745 019 999	-0.5	0.000 000	0.000
	100 %	+10	3745 019 995	-4.2	0.000 000	-0.001
	100 %	+30	3745 019 995	-4.4	0.000 000	-0.001
	100 %	+40	3745 019 998	-0.7	0.000 000	0.000
	100 %	+50	3745 019 995	-3.9	0.000 000	-0.001
	Batt. Endpoint	+20	3745 019 994	-5.1	0.000 000	-0.001
3934.980	100 %	+20(Ref)	3934 979 998	0.0	0.000 000	0.000
	100 %	-30	3934 979 993	-4.7	0.000 000	-0.001
	100 %	-20	3934 979 995	-3.1	0.000 000	-0.001
	100 %	-10	3934 979 993	-4.8	0.000 000	-0.001
	100 %	0	3934 979 996	-2.1	0.000 000	-0.001
	100 %	+10	3934 979 996	-1.7	0.000 000	0.000
	100 %	+30	3934 979 994	-4.3	0.000 000	-0.001
	100 %	+40	3934 979 993	-5.2	0.000 000	-0.001
	100 %	+50	3934 979 993	-5.2	0.000 000	-0.001
	Batt. Endpoint	+20	3934 979 996	-1.3	0.000 000	0.000

- ▣ BandWidth: 100 MHz
- ▣ Voltage(100 %): 3.900 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3750.000	100 %	+20(Ref)	3749 999 996	0.0	0.000 000	0.000
	100 %	-30	3749 999 994	-1.4	0.000 000	0.000
	100 %	-20	3749 999 997	1.0	0.000 000	0.000
	100 %	-10	3749 999 992	-4.1	0.000 000	-0.001
	100 %	0	3749 999 994	-1.6	0.000 000	0.000
	100 %	+10	3749 999 991	-5.0	0.000 000	-0.001
	100 %	+30	3749 999 992	-3.4	0.000 000	-0.001
	100 %	+40	3749 999 992	-4.1	0.000 000	-0.001
	100 %	+50	3749 999 998	2.4	0.000 000	0.001
	Batt. Endpoint	+20	3749 999 996	-0.3	0.000 000	0.000
3930.000	100 %	+20(Ref)	3929 999 999	0.0	0.000 000	0.000
	100 %	-30	3929 999 996	-3.3	0.000 000	-0.001
	100 %	-20	3929 999 997	-1.9	0.000 000	0.000
	100 %	-10	3929 999 994	-4.8	0.000 000	-0.001
	100 %	0	3929 999 996	-2.5	0.000 000	-0.001
	100 %	+10	3929 999 996	-2.9	0.000 000	-0.001
	100 %	+30	3929 999 993	-5.6	0.000 000	-0.001
	100 %	+40	3929 999 996	-3.3	0.000 000	-0.001
	100 %	+50	3929 999 994	-5.1	0.000 000	-0.001
	Batt. Endpoint	+20	3929 999 996	-2.8	0.000 000	-0.001

10. TEST PLOTS(3450 MHz - 3550 MHz)

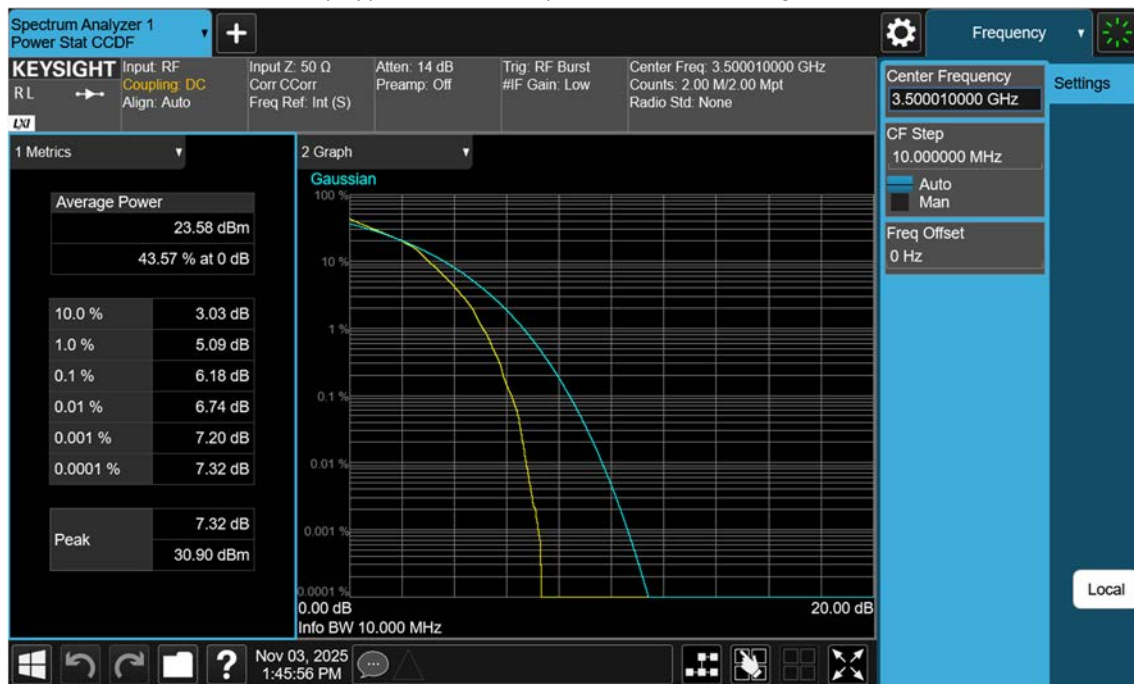
NR n77(78)(3450~3550 MHz)_10 M_PAR_Mid_PI/2 BPSK_FullIRB



NR n77(78)(3450~3550 MHz)_10 M_PAR_Mid_QPSK_FullRB



NR n77(78)(3450~3550 MHz)_10 M_PAR_Mid_16QAM_FullRB



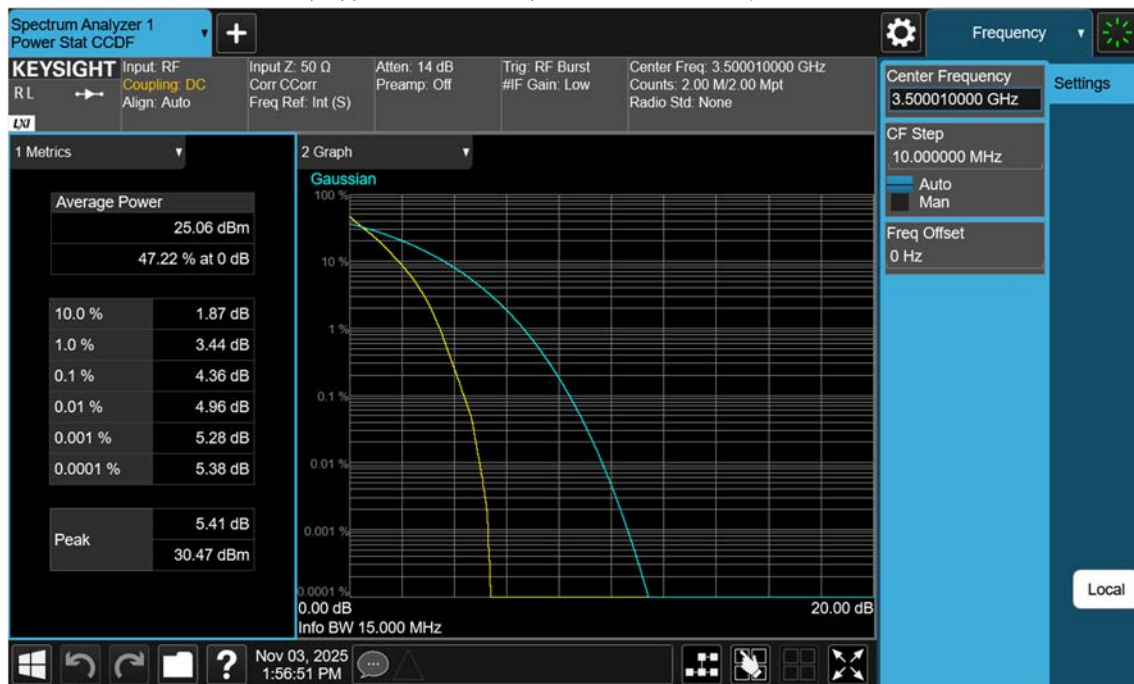
NR n77(78)(3450~3550 MHz)_10 M_PAR_Mid_64QAM_FullRB



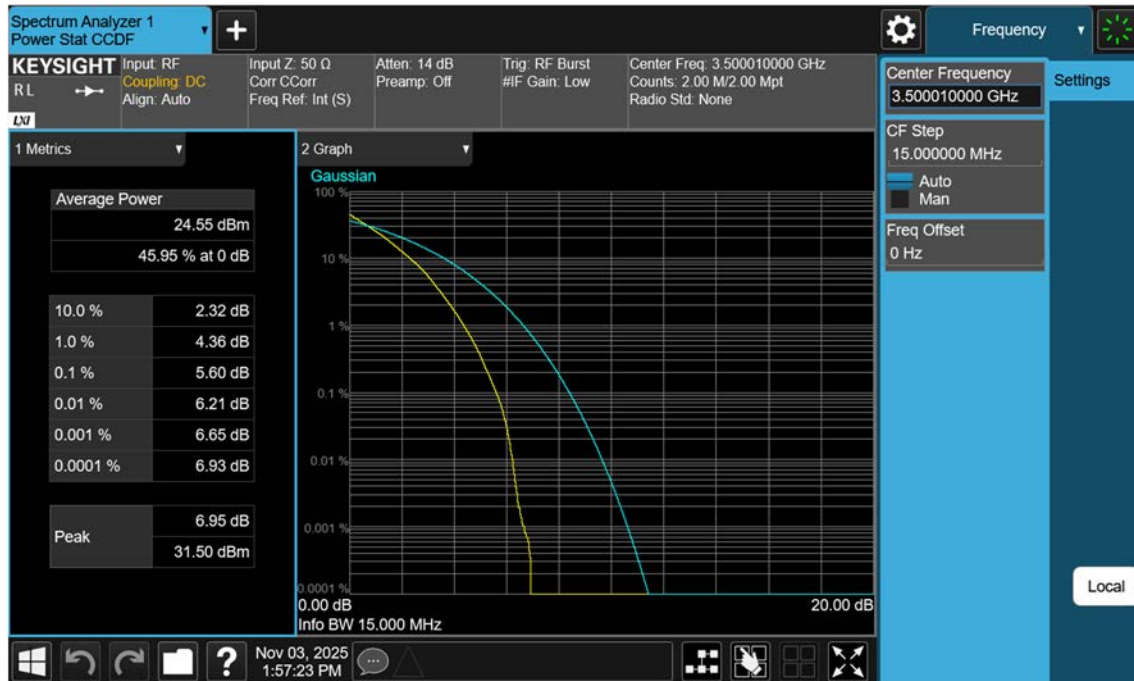
NR n77(78)(3450~3550 MHz)_10 M_PAR_Mid_256QAM_FullRB



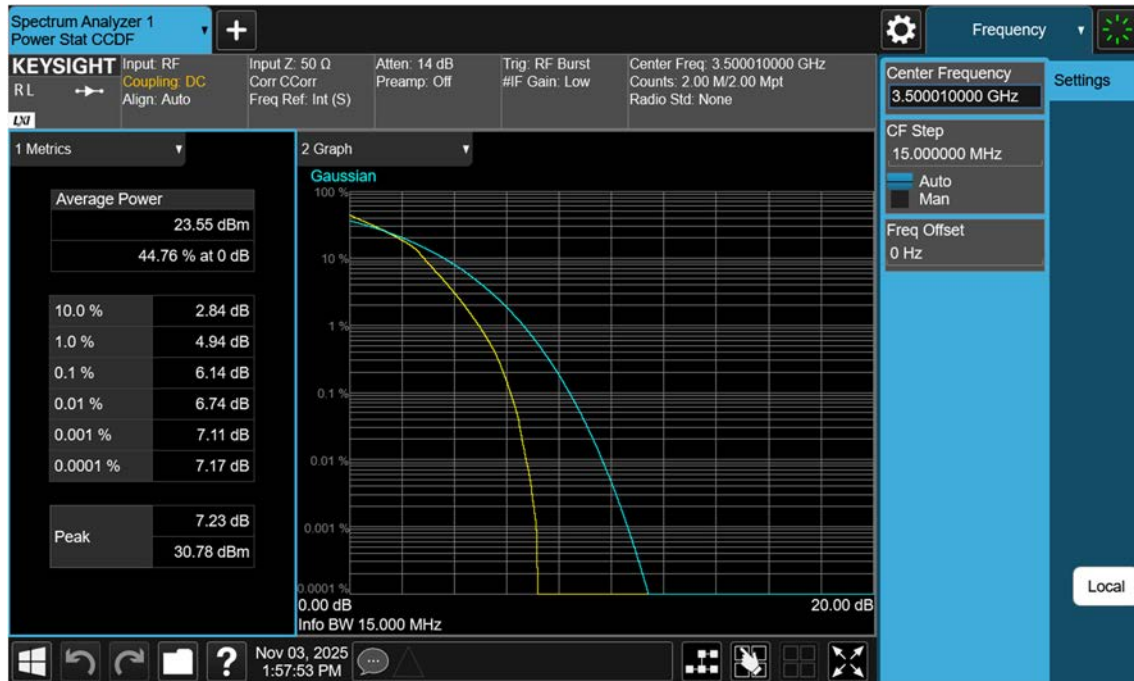
NR n77(78)(3450~3550 MHz)_15 M_PAR_Mid_PI/2 BPSK_FullIRB



NR n77(78)(3450~3550 MHz)_15 M_PAR_Mid_QPSK_FullRB



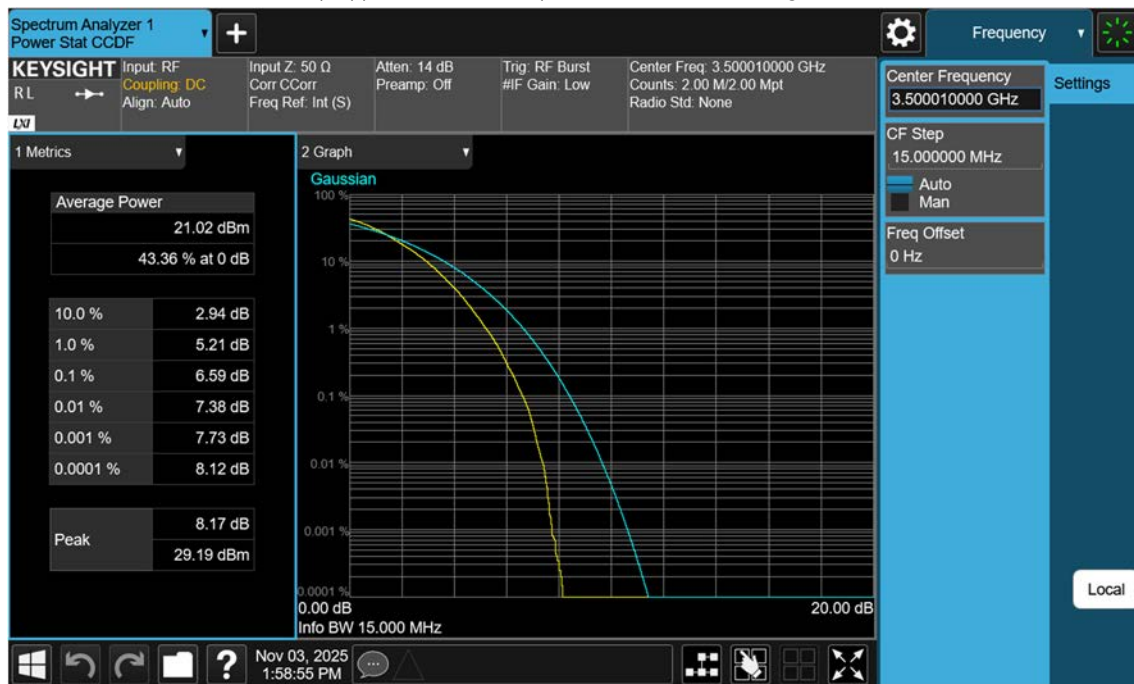
NR n77(78)(3450~3550 MHz)_15 M_PAR_Mid_16QAM_FullRB



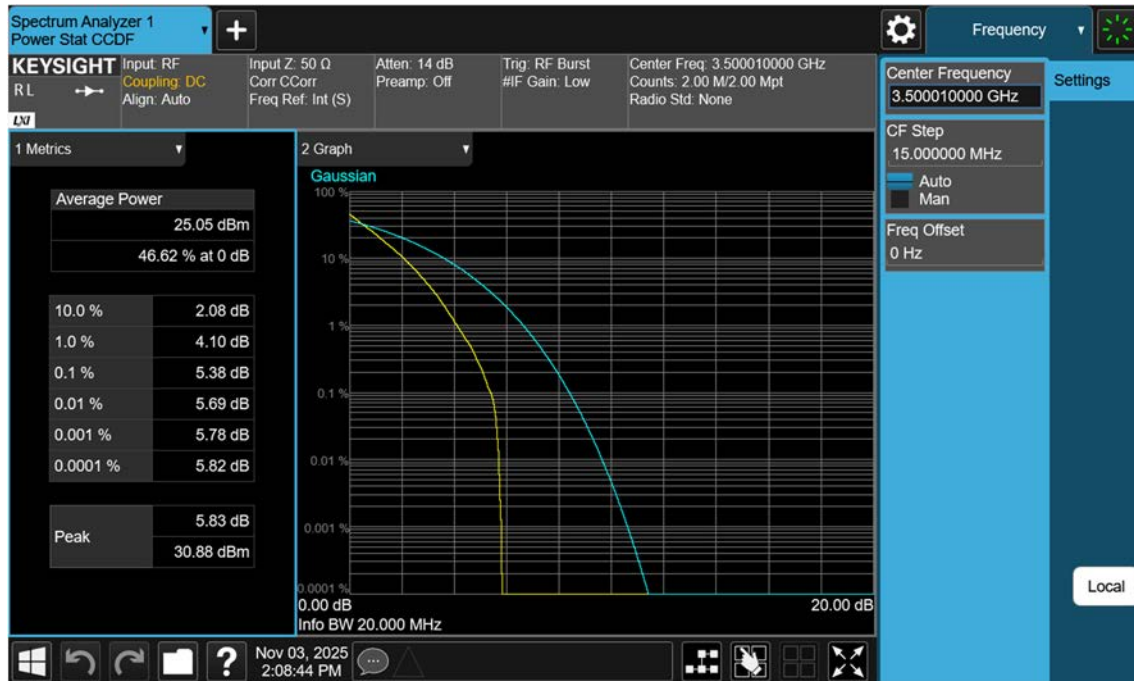
NR n77(78)(3450~3550 MHz)_15 M_PAR_Mid_64QAM_FullRB



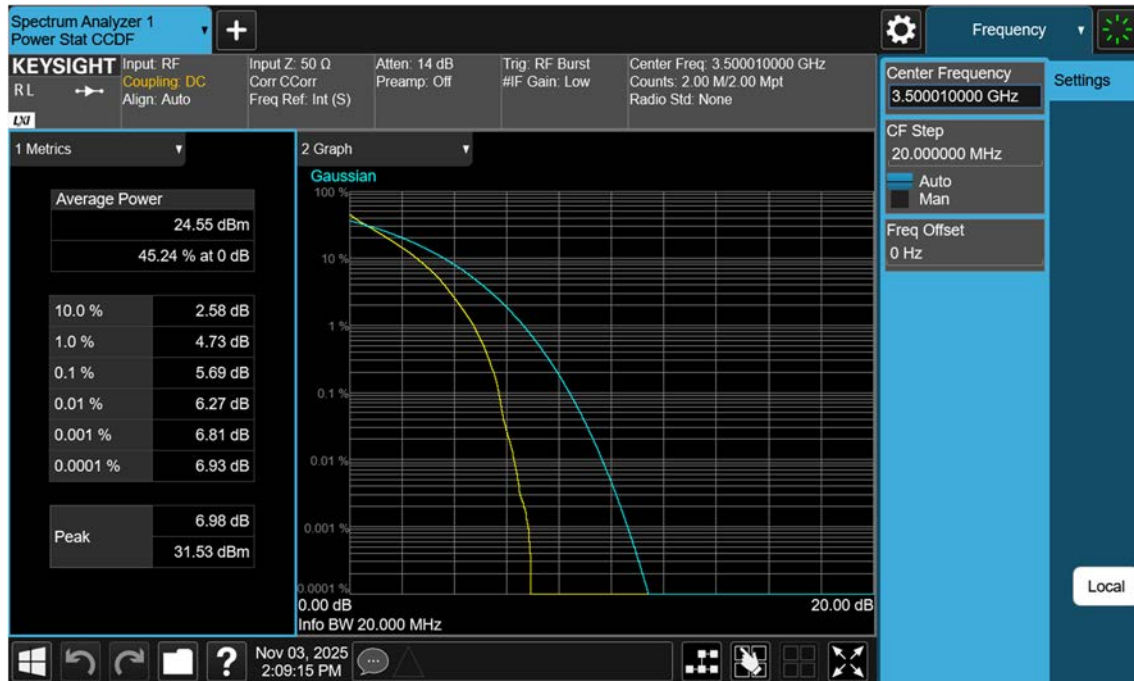
NR n77(78)(3450~3550 MHz)_15 M_PAR_Mid_256QAM_FullRB



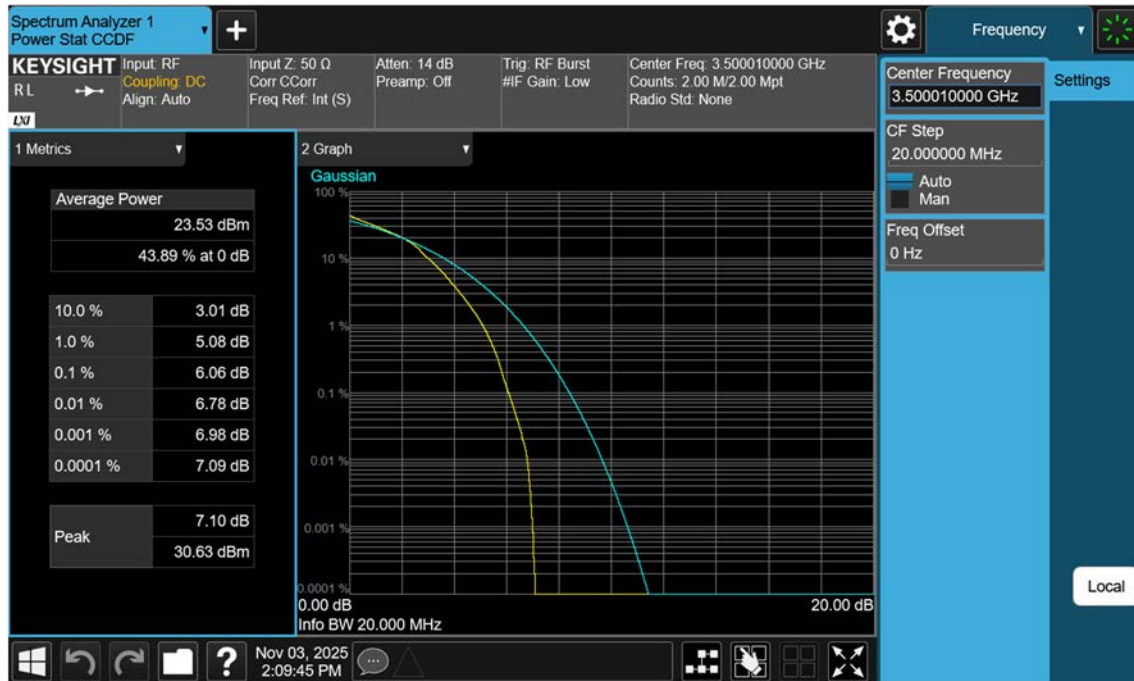
NR n77(78)(3450~3550 MHz)_20 M_PAR_Mid_PI/2 BPSK_FullIRB



NR n77(78)(3450~3550 MHz)_20 M_PAR_Mid_QPSK_FullRB



NR n77(78)(3450~3550 MHz)_20 M_PAR_Mid_16QAM_FullRB



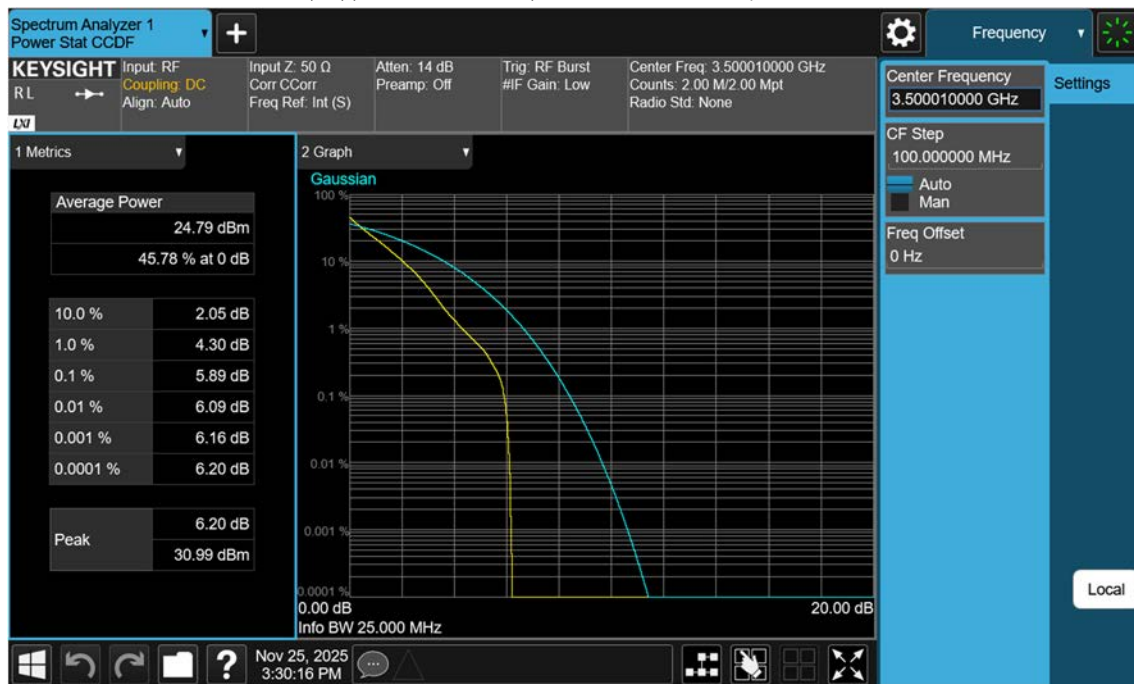
NR n77(78)(3450~3550 MHz)_20 M_PAR_Mid_64QAM_FullRB



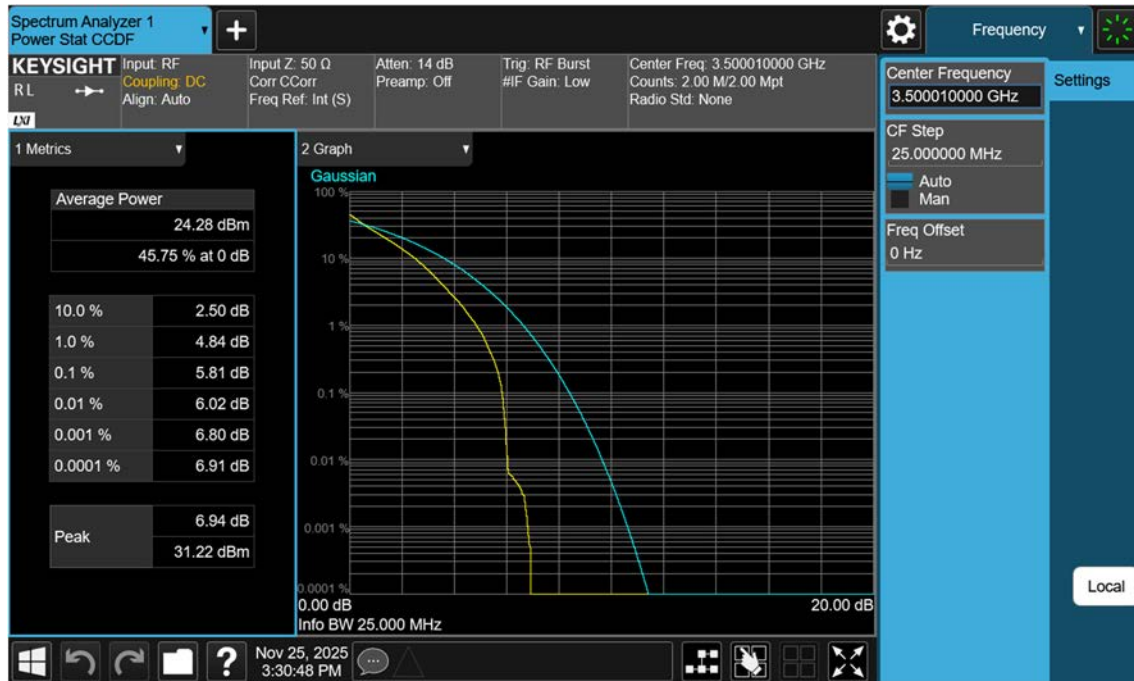
NR n77(78)(3450~3550 MHz)_20 M_PAR_Mid_256QAM_FullRB



NR n77(78)(3450~3550 MHz)_25 M_PAR_Mid_PI/2 BPSK_FullIRB



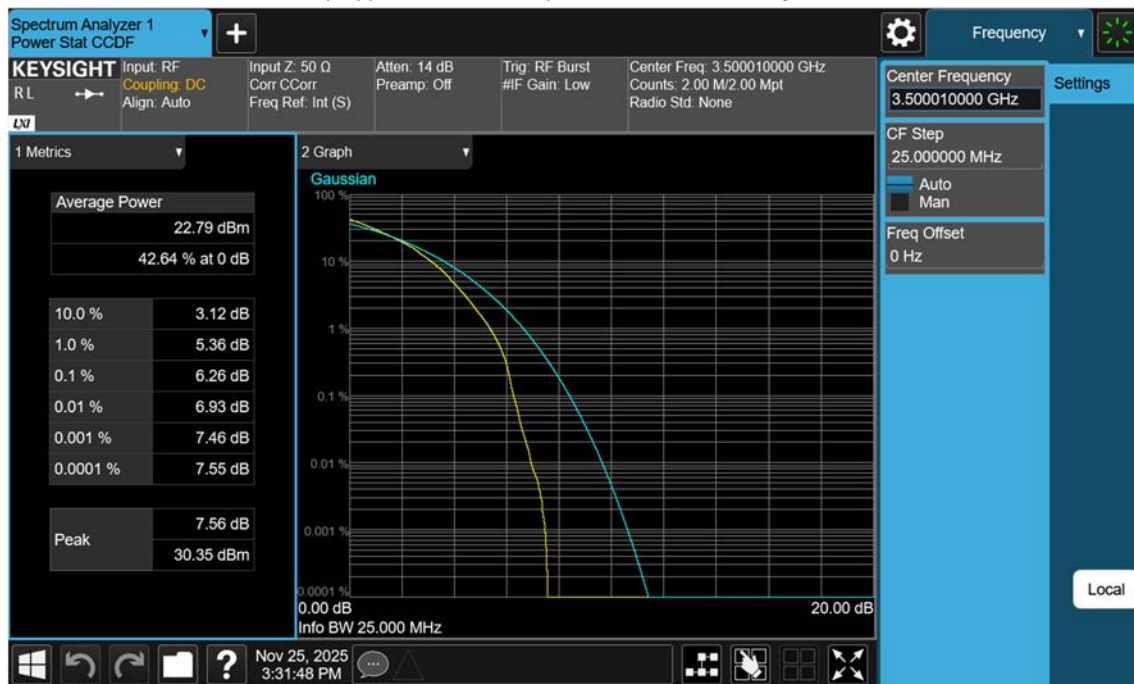
NR n77(78)(3450~3550 MHz)_25 M_PAR_Mid_QPSK_FullRB



NR n77(78)(3450~3550 MHz)_25 M_PAR_Mid_16QAM_FullRB



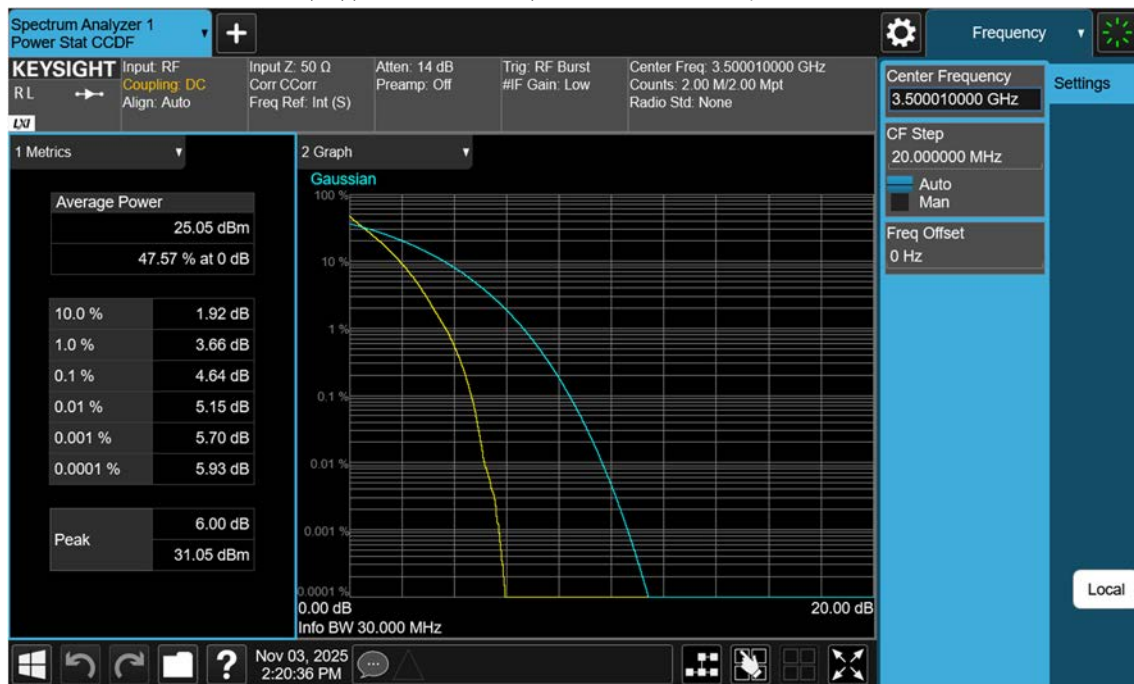
NR n77(78)(3450~3550 MHz)_25 M_PAR_Mid_64QAM_FullRB



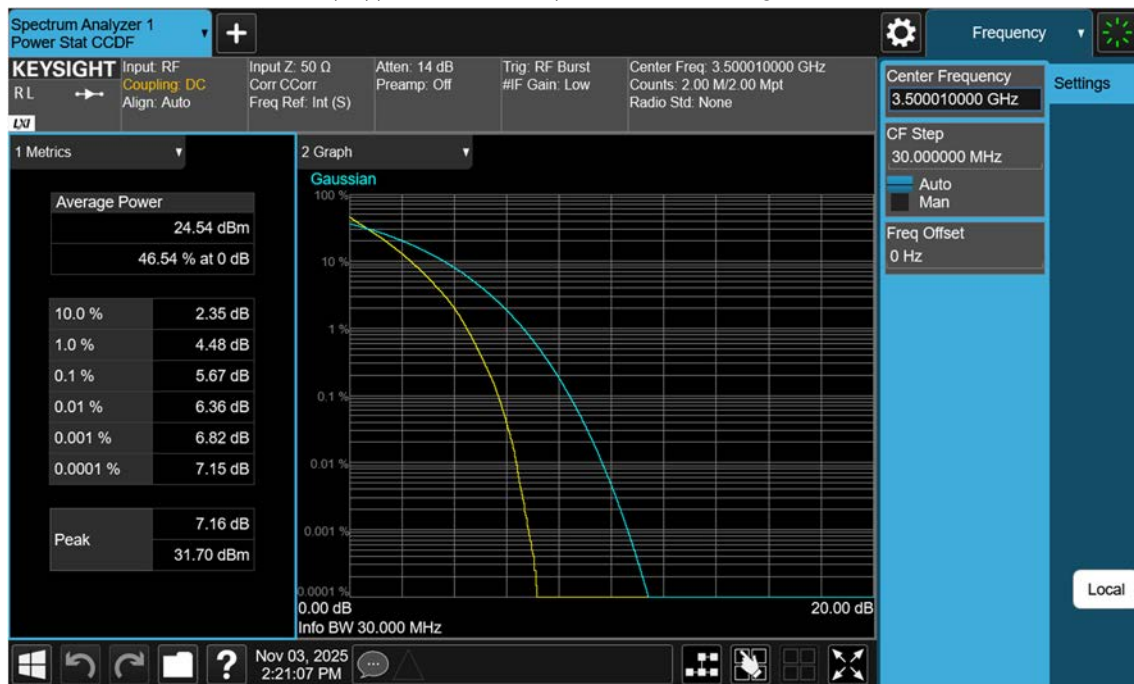
NR n77(78)(3450~3550 MHz)_25 M_PAR_Mid_256QAM_FullRB



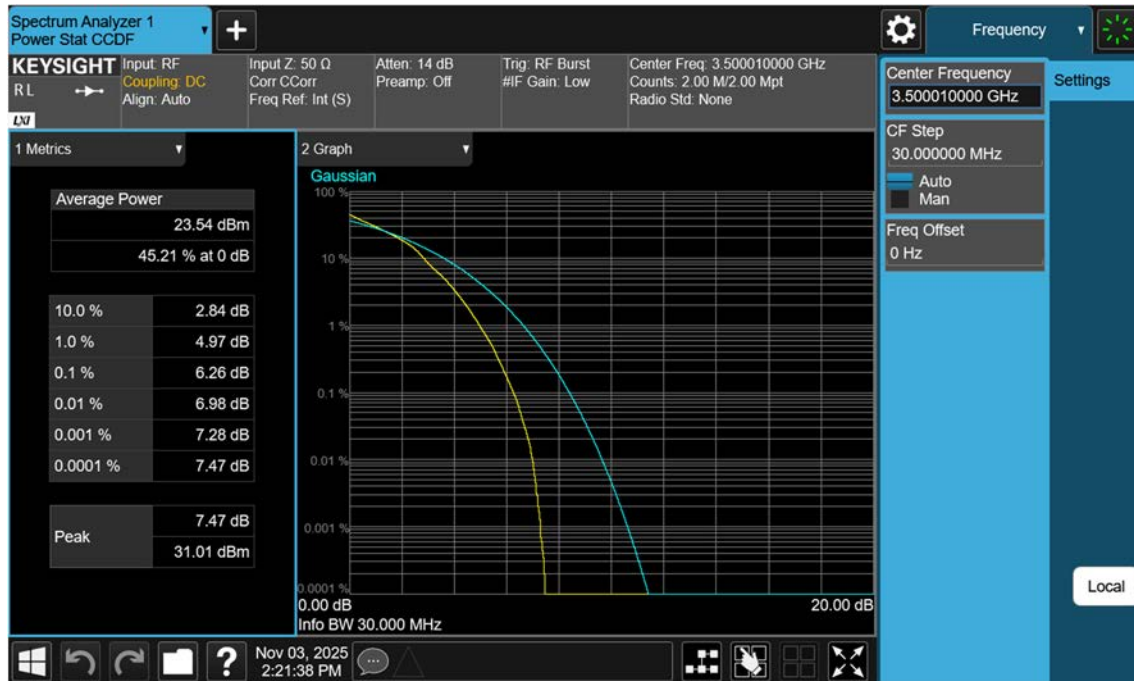
NR n77(78)(3450~3550 MHz)_30 M_PAR_Mid_PI/2 BPSK_FullIRB



NR n77(78)(3450~3550 MHz)_30 M_PAR_Mid_QPSK_FullRB



NR n77(78)(3450~3550 MHz)_30 M_PAR_Mid_16QAM_FullRB



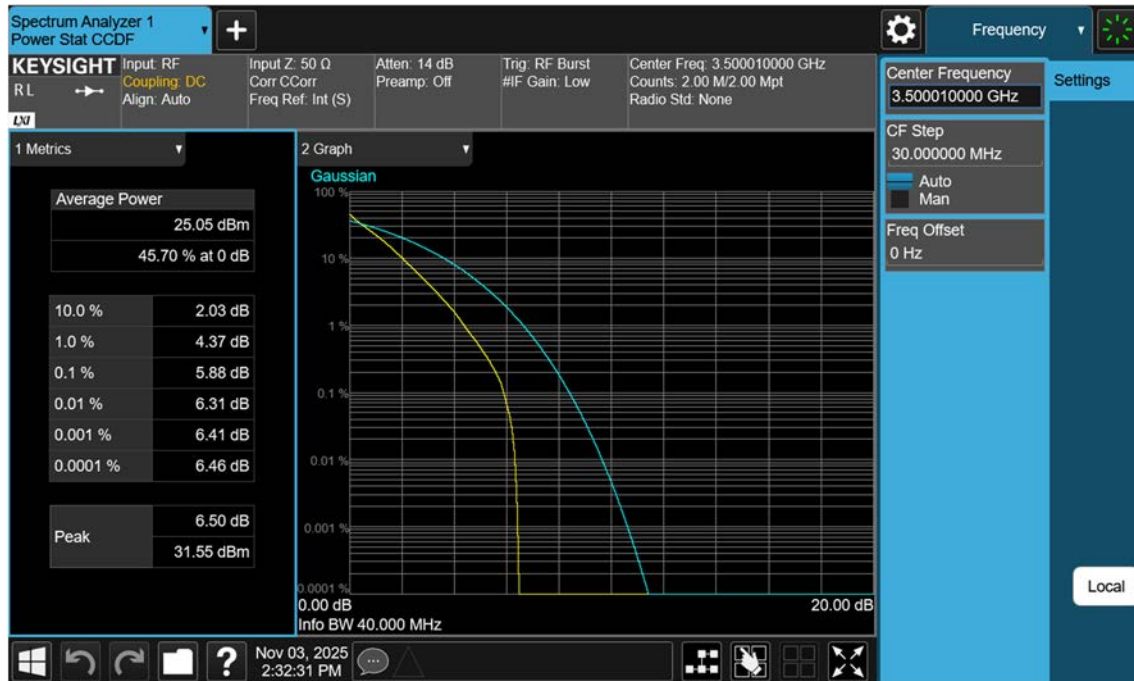
NR n77(78)(3450~3550 MHz)_30 M_PAR_Mid_64QAM_FullRB



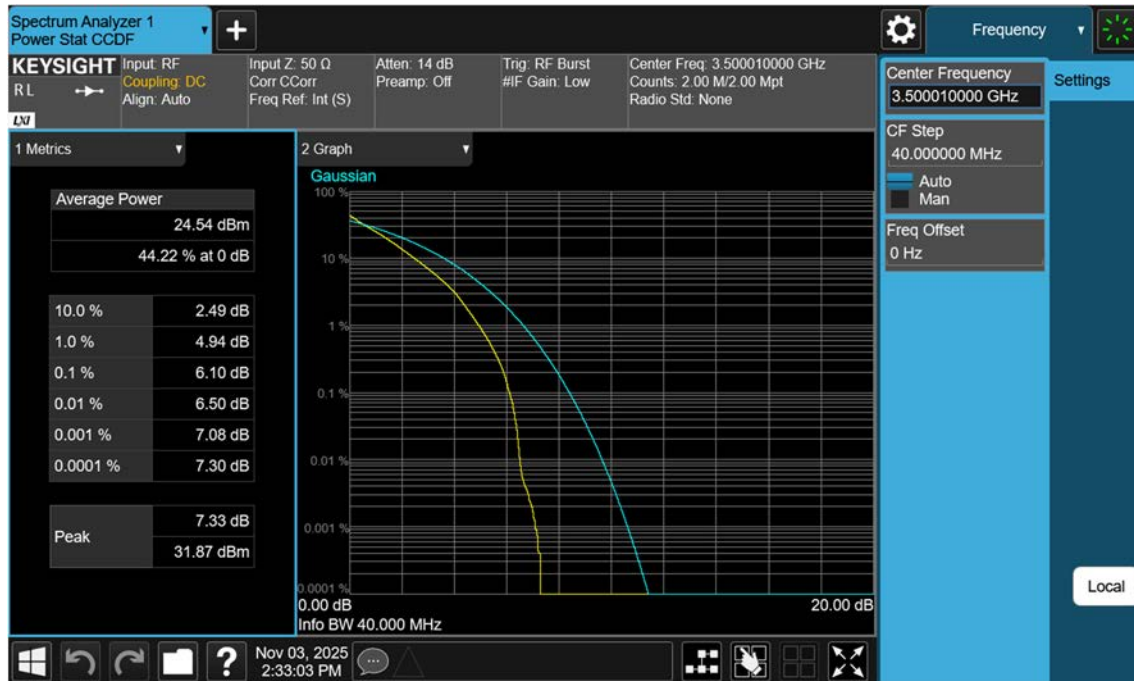
NR n77(78)(3450~3550 MHz)_30 M_PAR_Mid_256QAM_FullRB



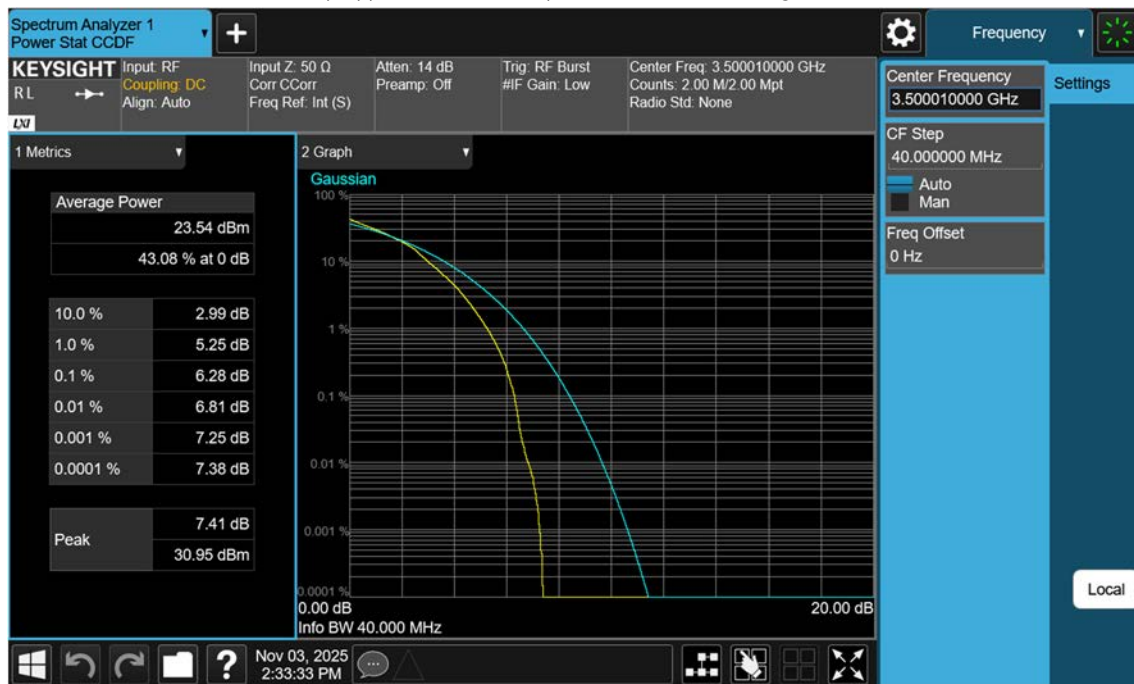
NR n77(78)(3450~3550 MHz)_40 M_PAR_Mid_PI/2 BPSK_FullIRB



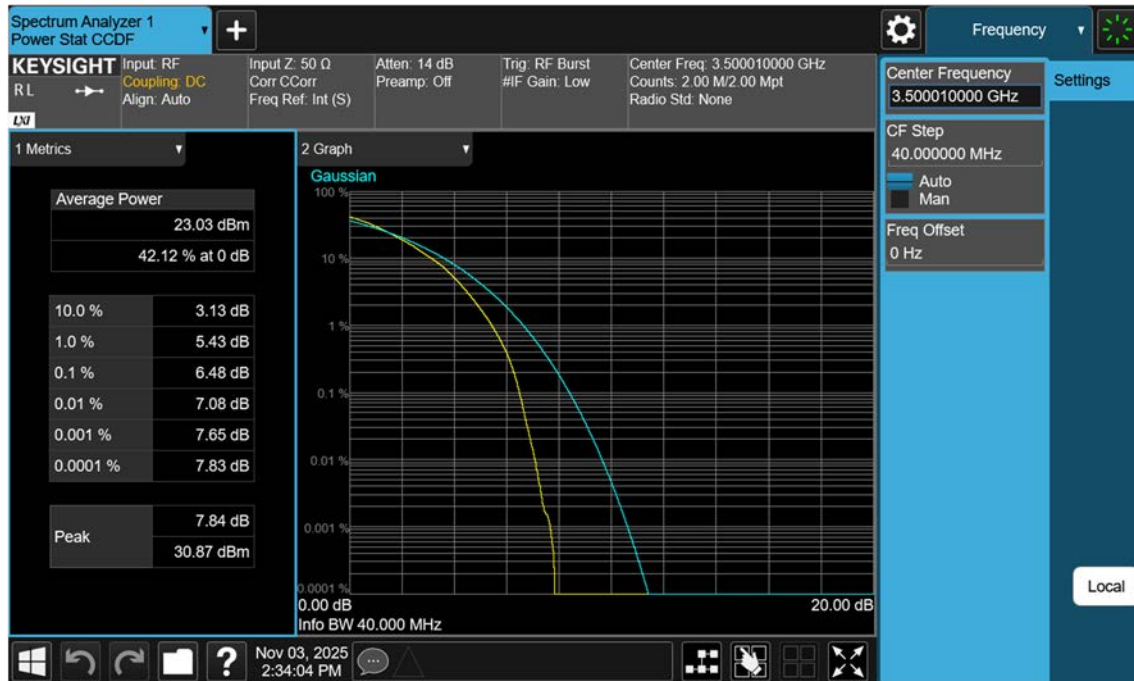
NR n77(78)(3450~3550 MHz)_40 M_PAR_Mid_QPSK_FullRB



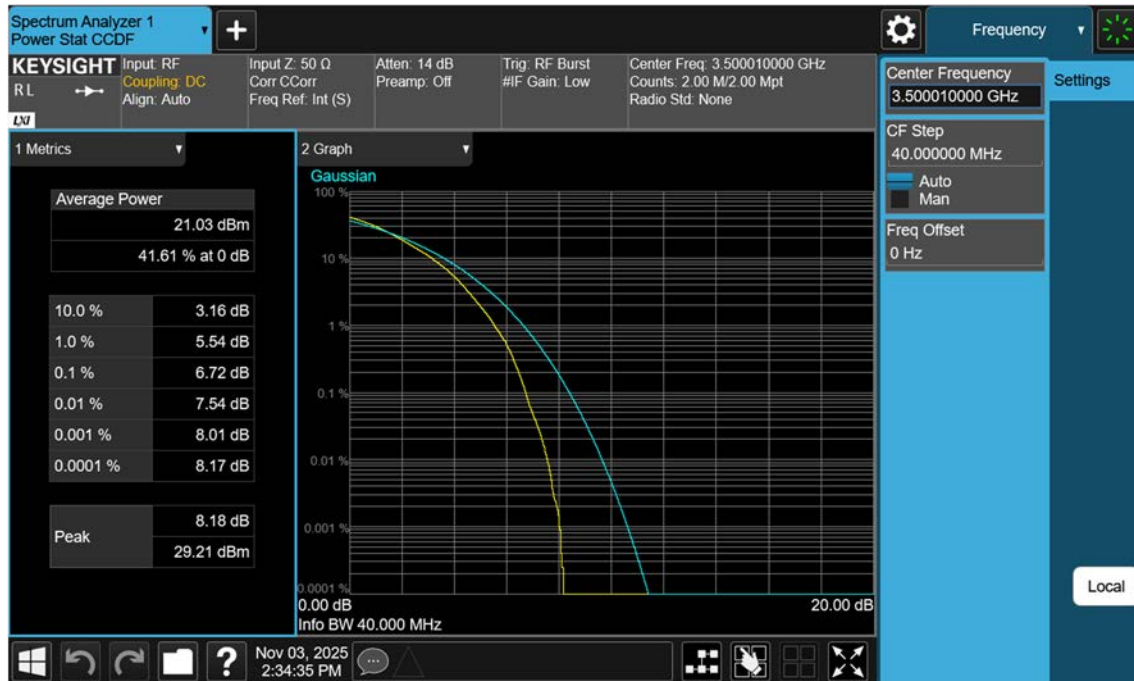
NR n77(78)(3450~3550 MHz)_40 M_PAR_Mid_16QAM_FullRB



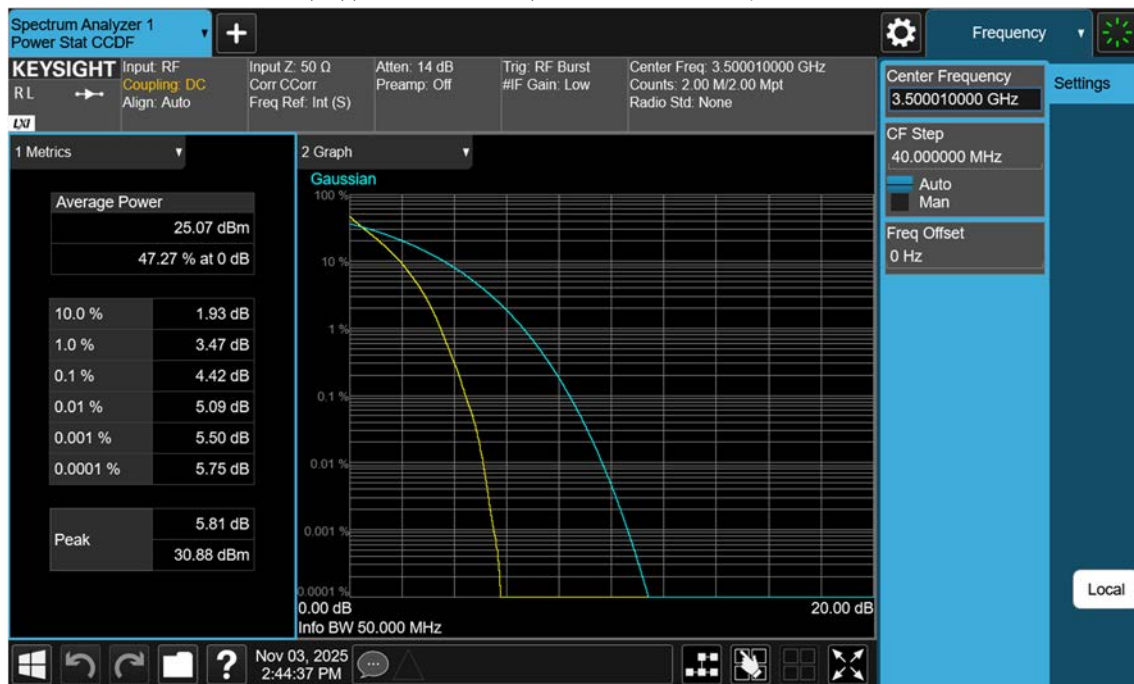
NR n77(78)(3450~3550 MHz)_40 M_PAR_Mid_64QAM_FullRB



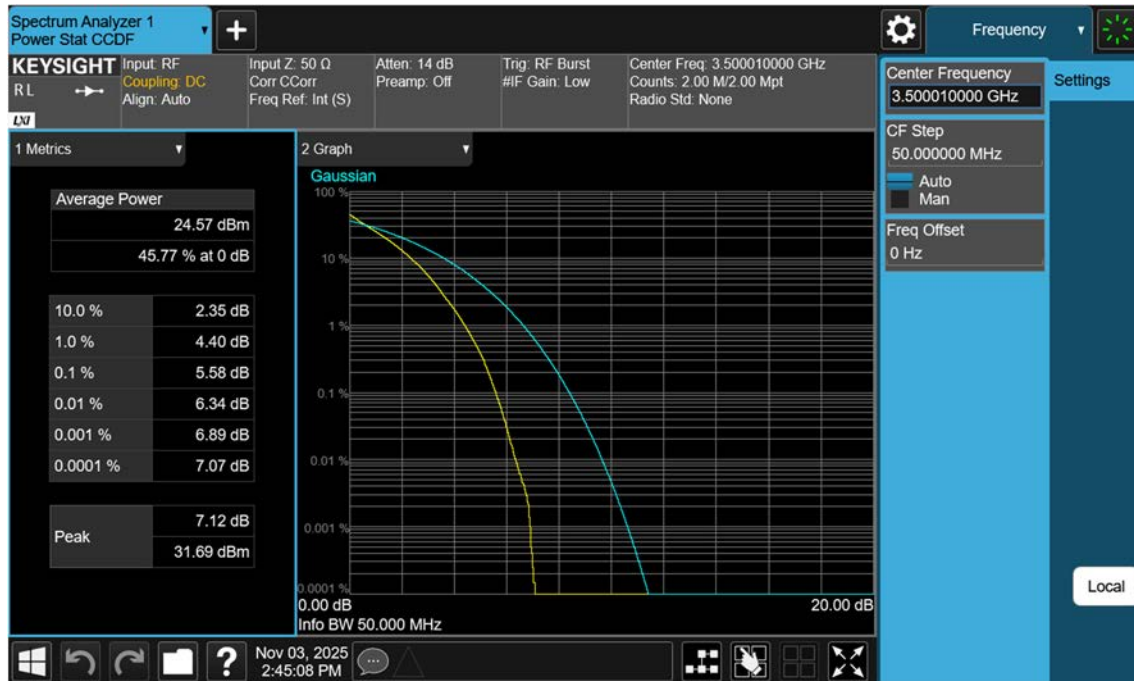
NR n77(78)(3450~3550 MHz)_40 M_PAR_Mid_256QAM_FullRB



NR n77(78)(3450~3550 MHz)_50 M_PAR_Mid_PI/2 BPSK_FullIRB



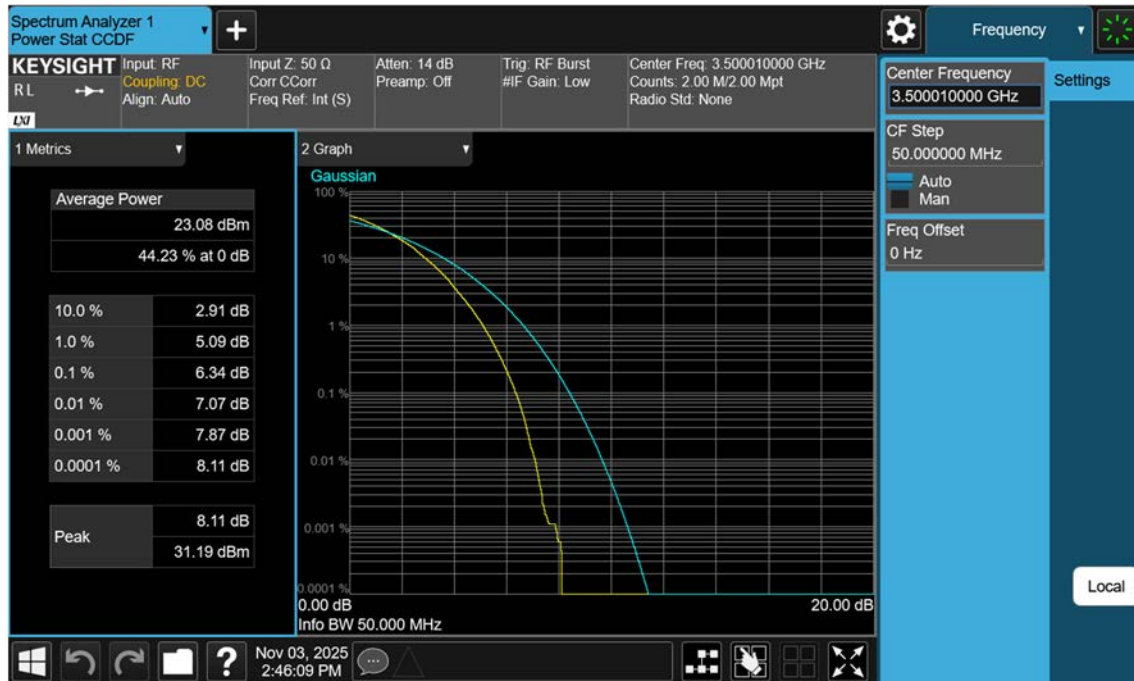
NR n77(78)(3450~3550 MHz)_50 M_PAR_Mid_QPSK_FullRB



NR n77(78)(3450~3550 MHz)_50 M_PAR_Mid_16QAM_FullRB



NR n77(78)(3450~3550 MHz)_50 M_PAR_Mid_64QAM_FullRB



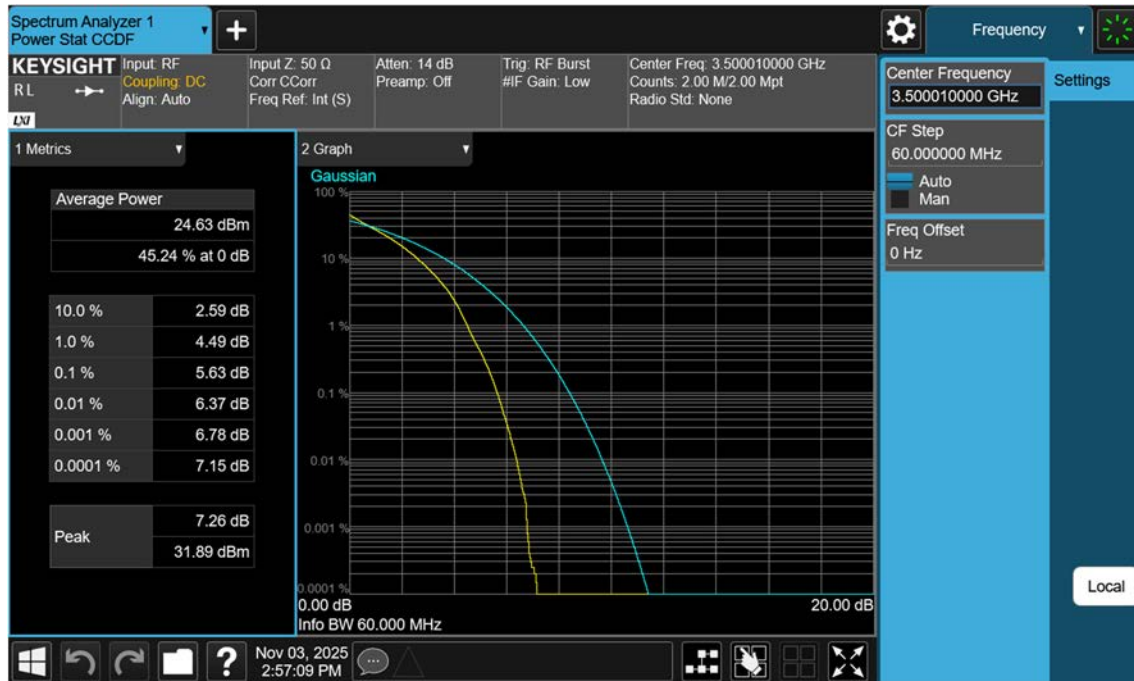
NR n77(78)(3450~3550 MHz)_50 M_PAR_Mid_256QAM_FullRB



NR n77(78)(3450~3550 MHz)_60 M_PAR_Mid_PI/2 BPSK_FullIRB



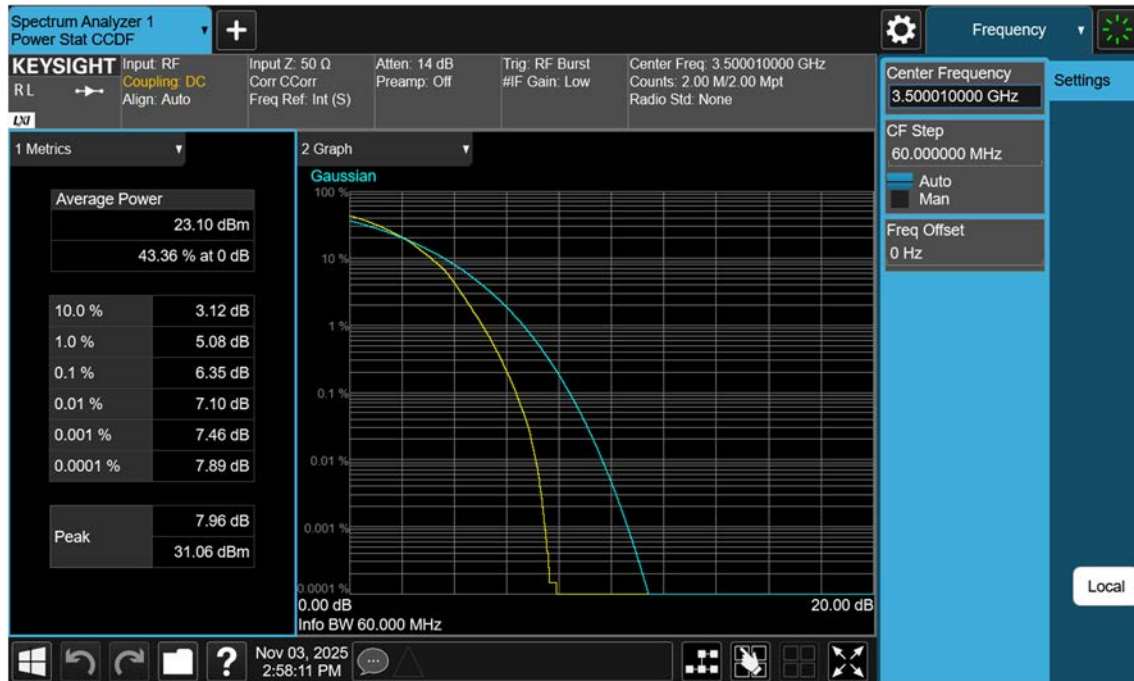
NR n77(78)(3450~3550 MHz)_60 M_PAR_Mid_QPSK_FullRB



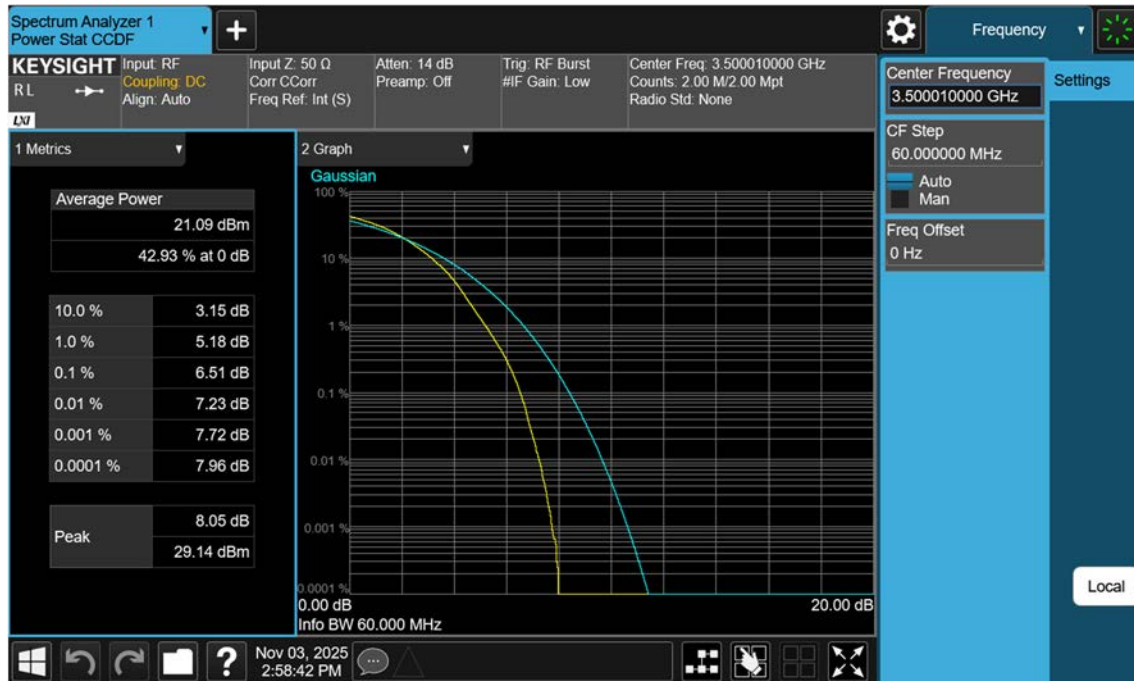
NR n77(78)(3450~3550 MHz)_60 M_PAR_Mid_16QAM_FullRB



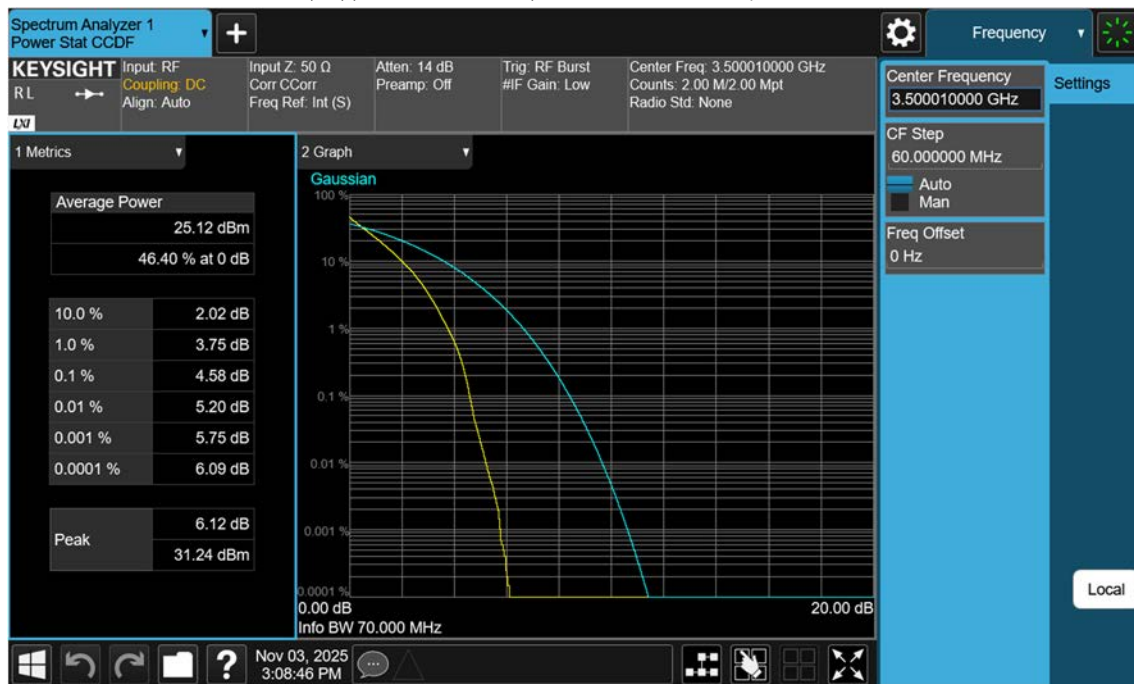
NR n77(78)(3450~3550 MHz)_60 M_PAR_Mid_64QAM_FullRB



NR n77(78)(3450~3550 MHz)_60 M_PAR_Mid_256QAM_FullRB



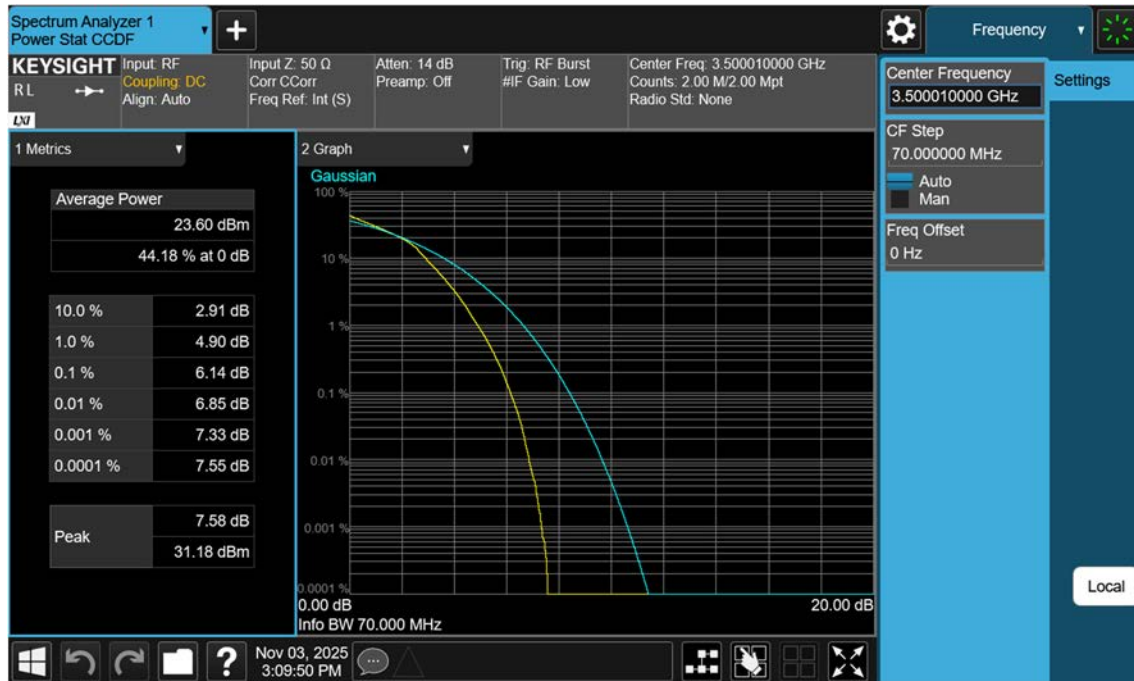
NR n77(78)(3450~3550 MHz)_70 M_PAR_Mid_PI/2 BPSK_FullIRB



NR n77(78)(3450~3550 MHz)_70 M_PAR_Mid_QPSK_FullRB



NR n77(78)(3450~3550 MHz)_70 M_PAR_Mid_16QAM_FullRB



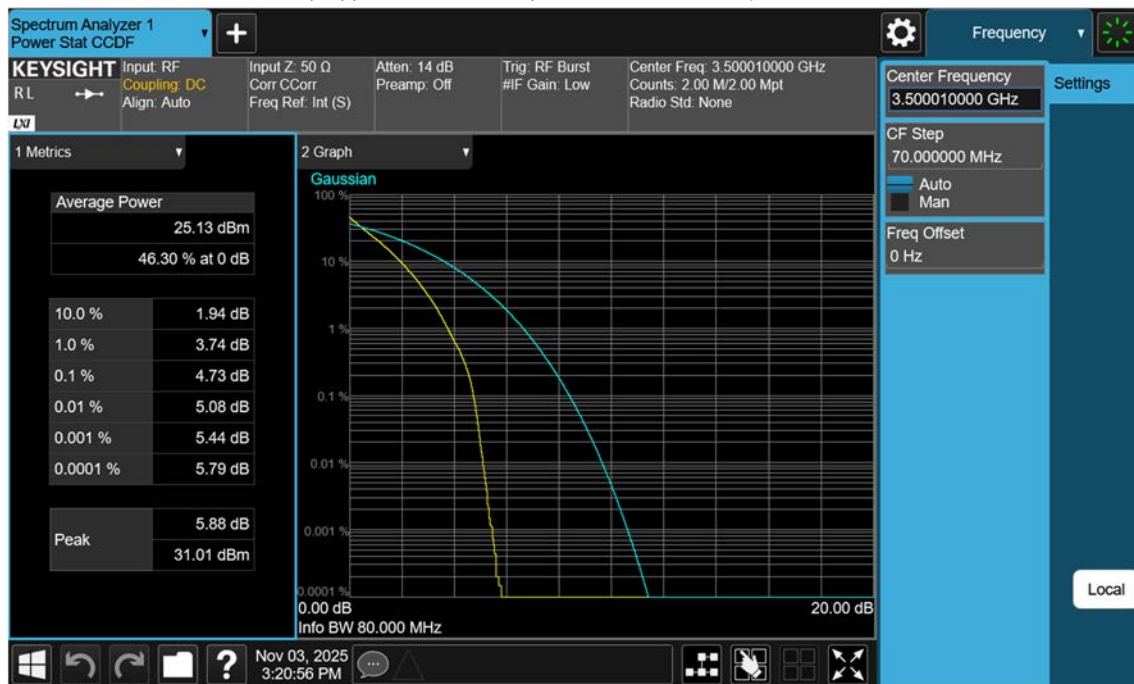
NR n77(78)(3450~3550 MHz)_70 M_PAR_Mid_64QAM_FullRB



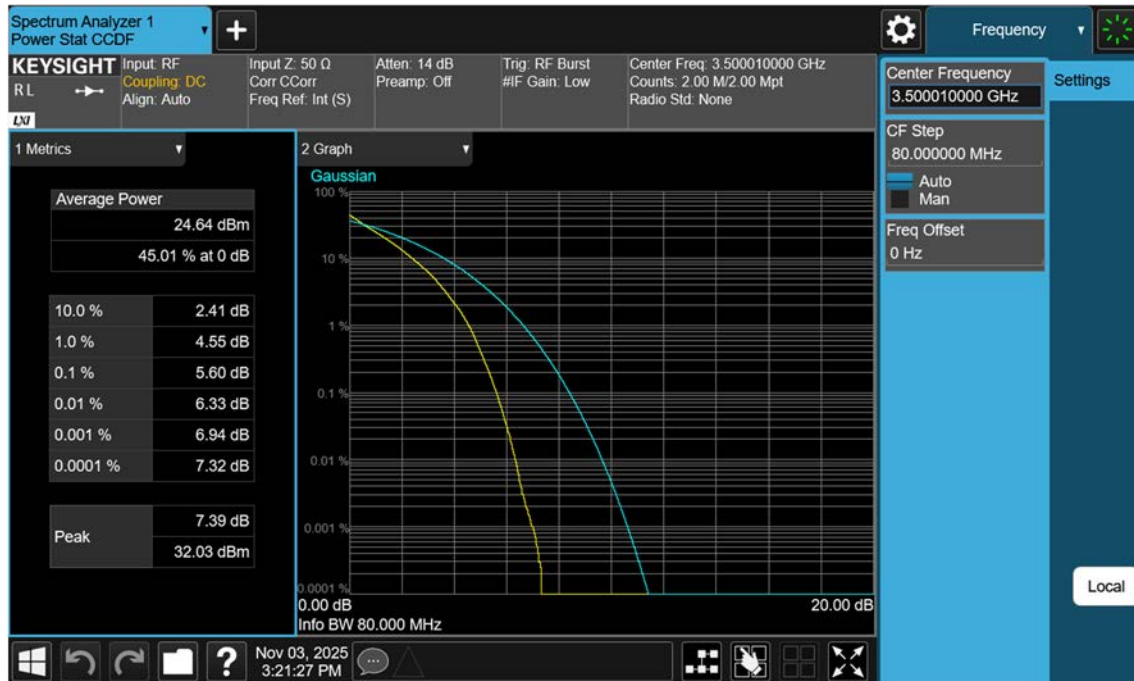
NR n77(78)(3450~3550 MHz)_70 M_PAR_Mid_256QAM_FullRB



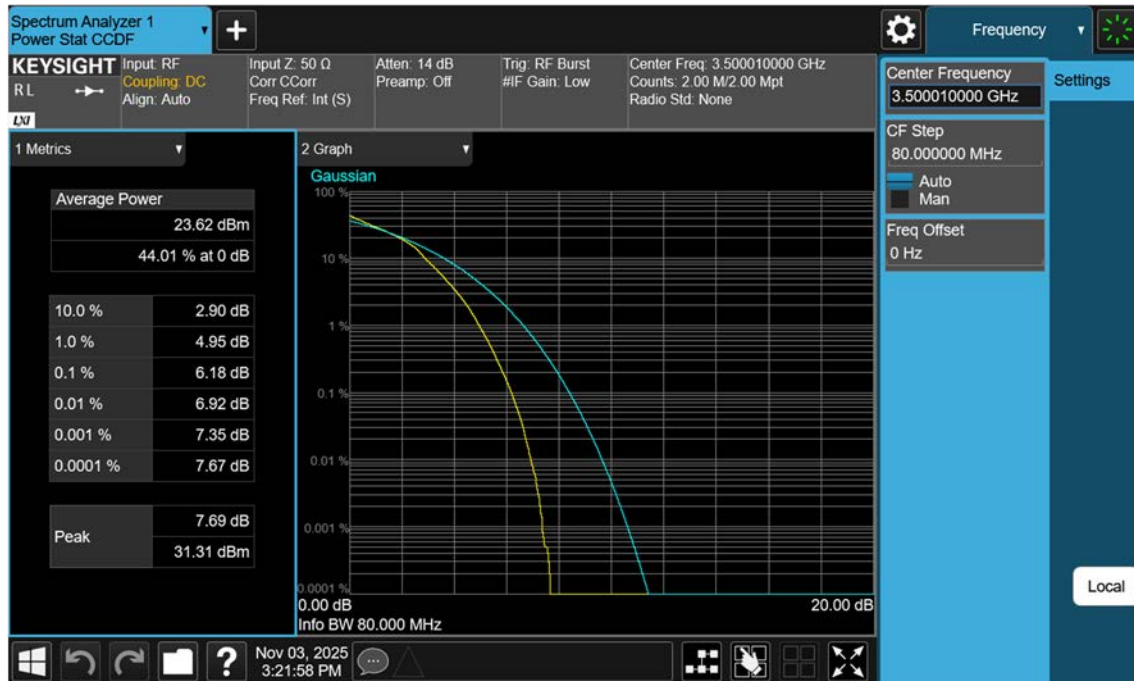
NR n77(78)(3450~3550 MHz)_80 M_PAR_Mid_PI/2 BPSK_FullIRB



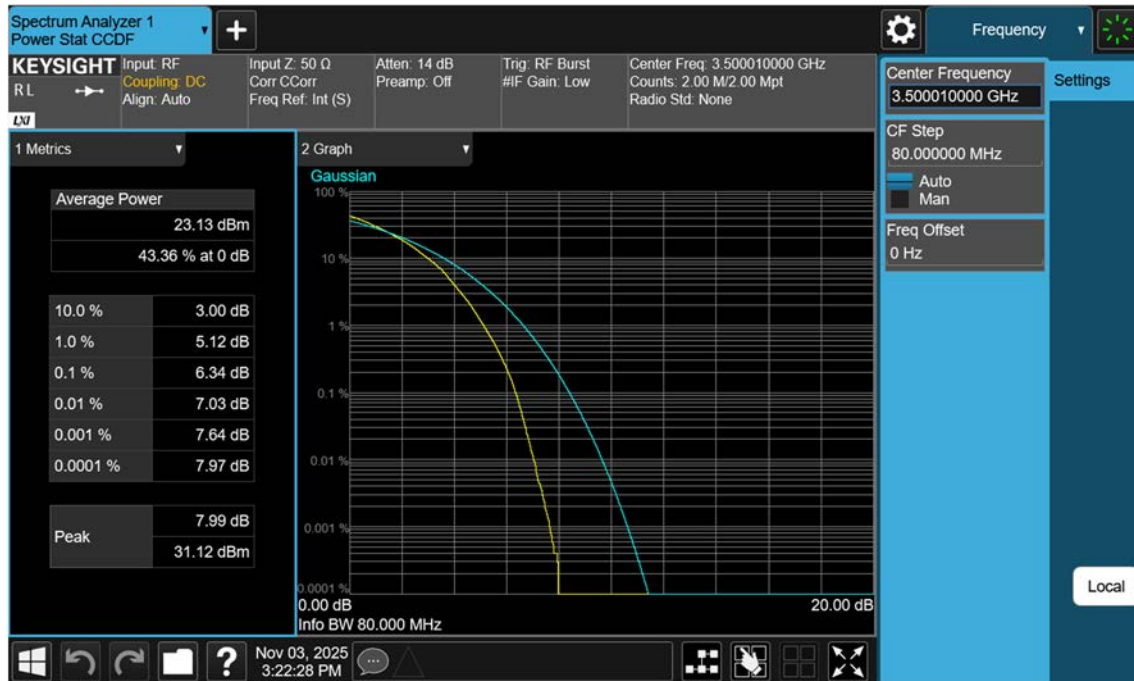
NR n77(78)(3450~3550 MHz)_80 M_PAR_Mid_QPSK_FullRB



NR n77(78)(3450~3550 MHz)_80 M_PAR_Mid_16QAM_FullRB



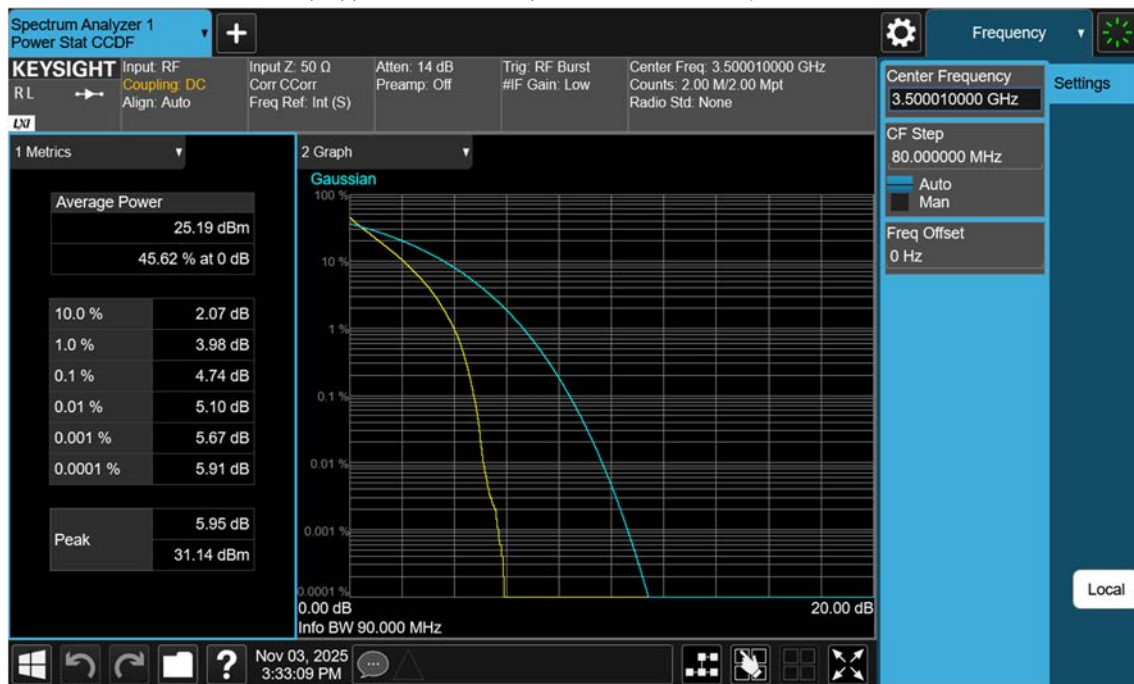
NR n77(78)(3450~3550 MHz)_80 M_PAR_Mid_64QAM_FullRB



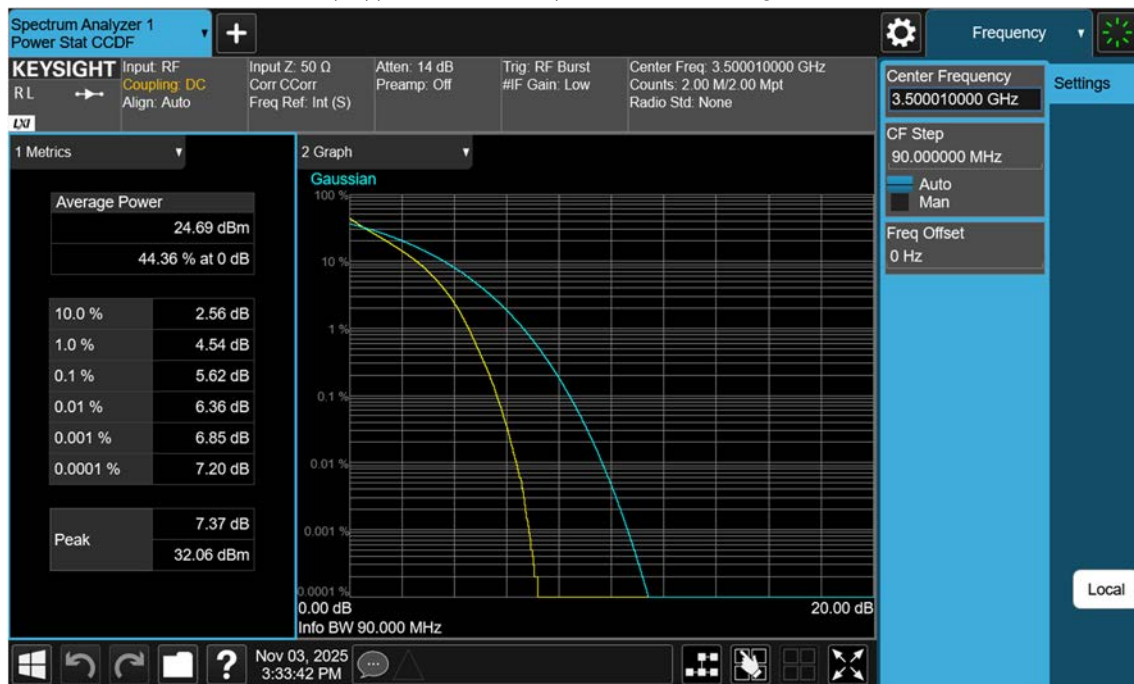
NR n77(78)(3450~3550 MHz)_80 M_PAR_Mid_256QAM_FullRB



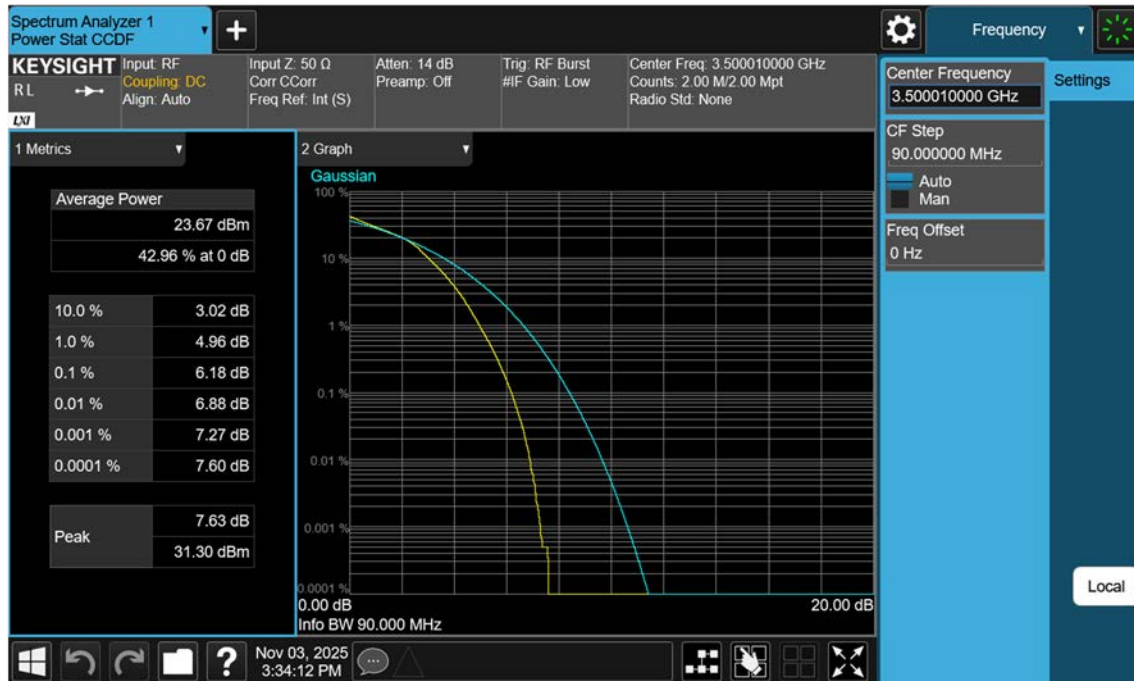
NR n77(78)(3450~3550 MHz)_90 M_PAR_Mid_PI/2 BPSK_FullIRB



NR n77(78)(3450~3550 MHz)_90 M_PAR_Mid_QPSK_FullRB



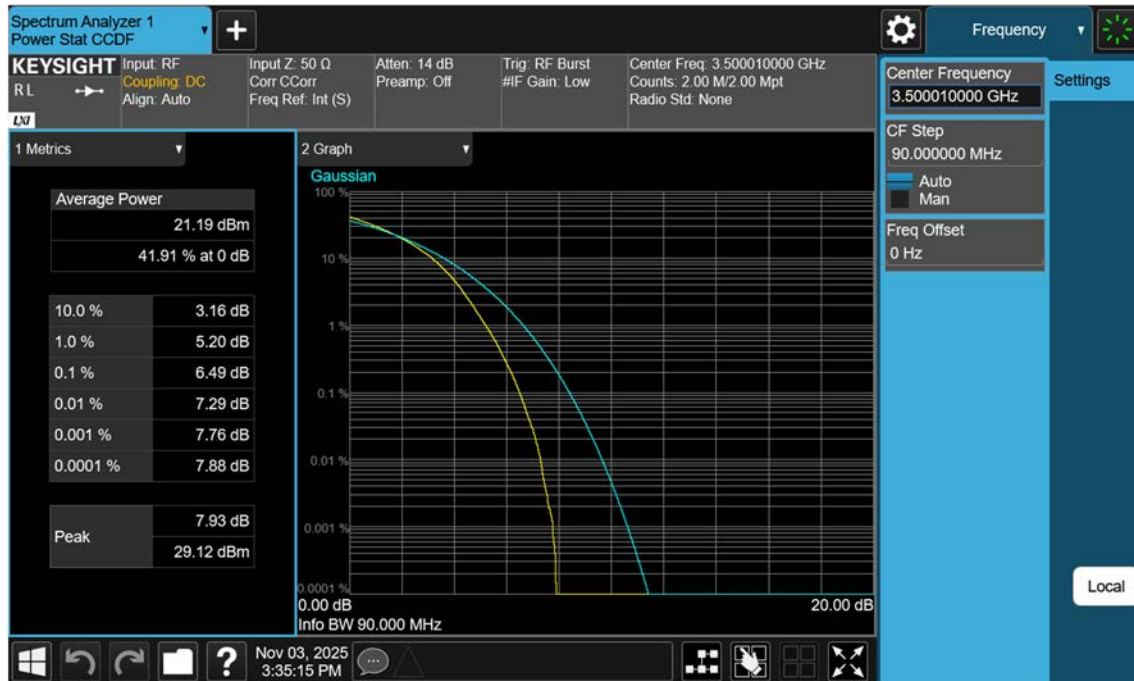
NR n77(78)(3450~3550 MHz)_90 M_PAR_Mid_16QAM_FullRB



NR n77(78)(3450~3550 MHz)_90 M_PAR_Mid_64QAM_FullRB



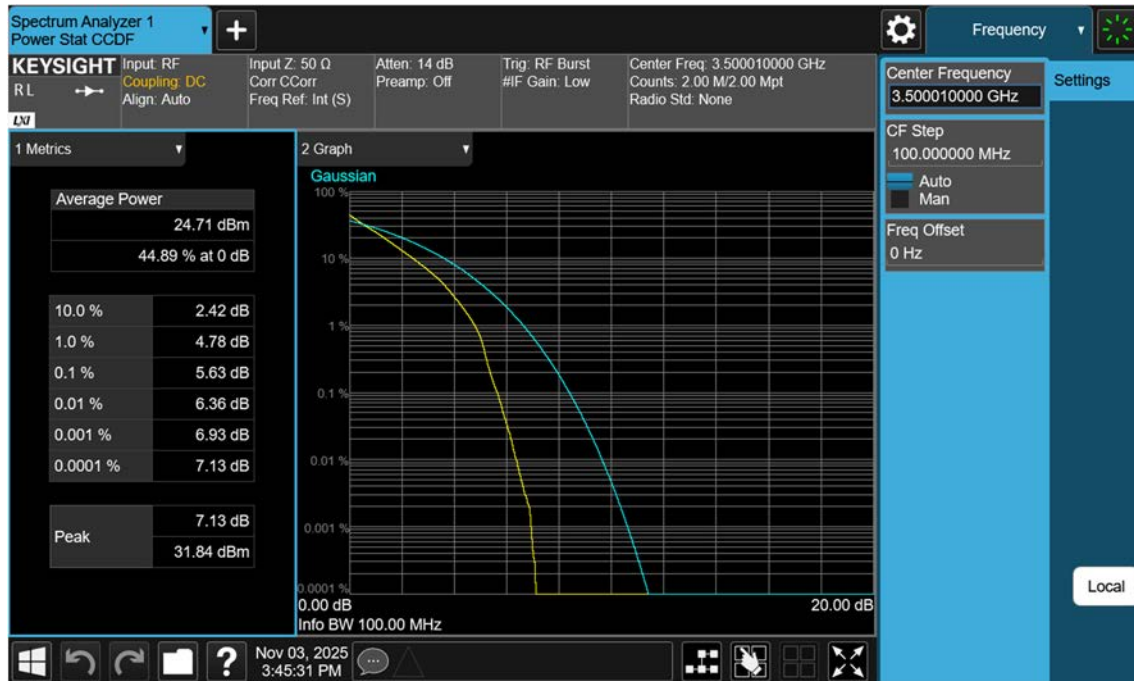
NR n77(78)(3450~3550 MHz)_90 M_PAR_Mid_256QAM_FullRB



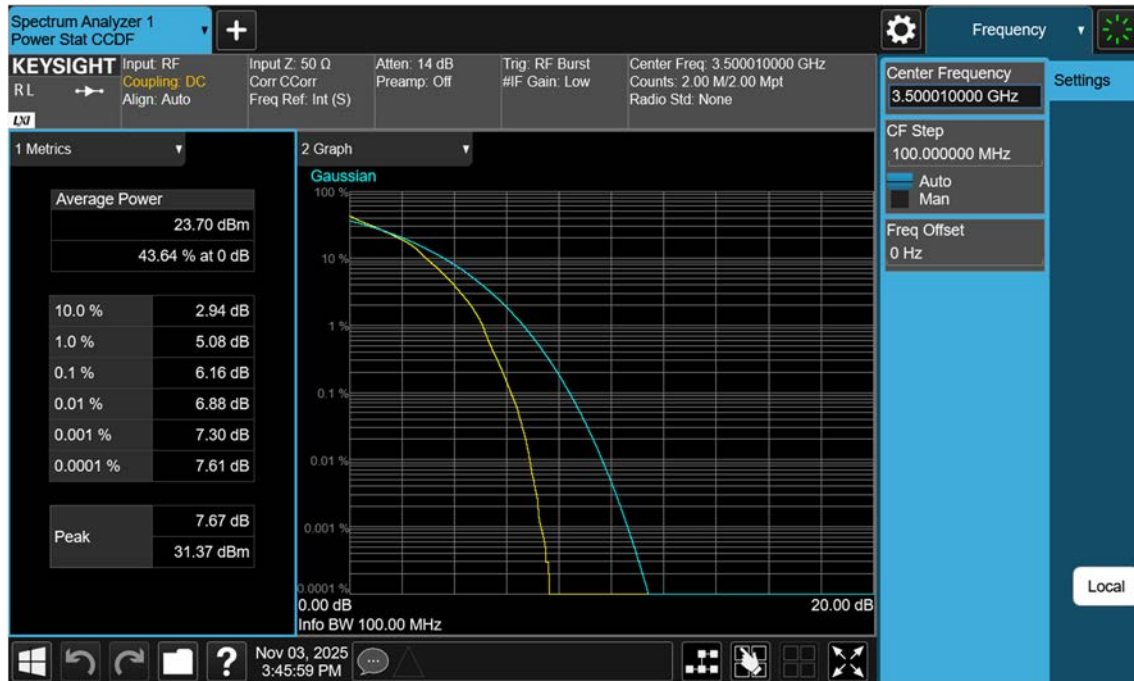
NR n77(78)(3450~3550 MHz)_100 M_PAR_Mid_PI/2 BPSK_FullRB



NR n77(78)(3450~3550 MHz)_100 M_PAR_Mid_QPSK_FullRB



NR n77(78)(3450~3550 MHz)_100 M_PAR_Mid_16QAM_FullRB



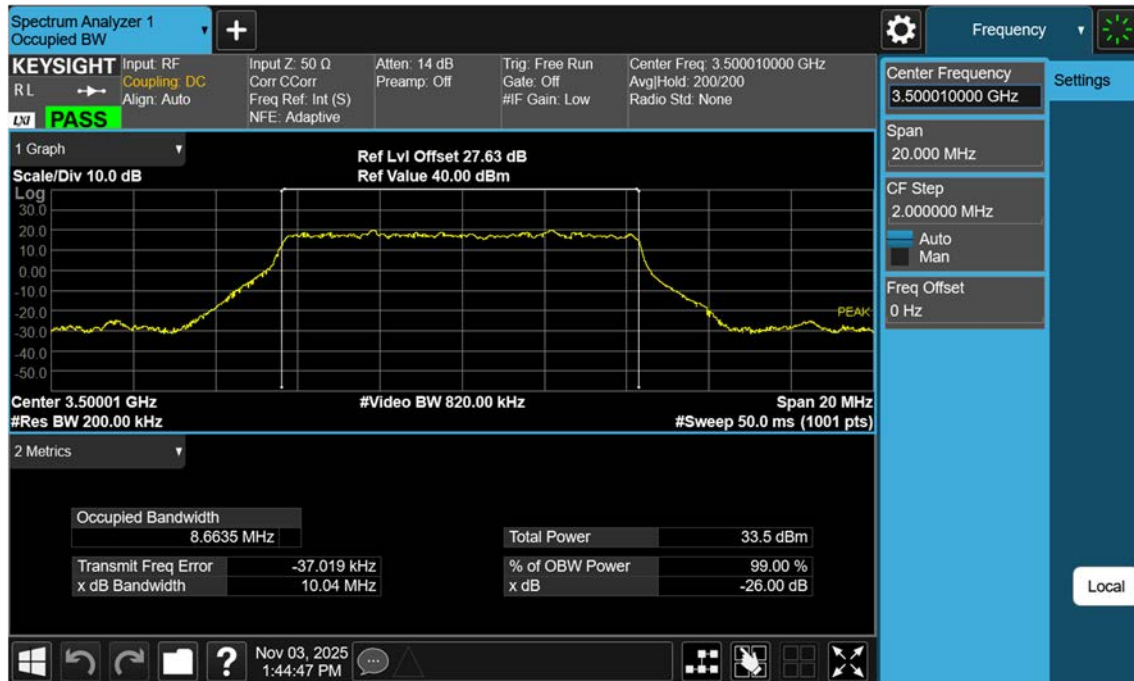
NR n77(78)(3450~3550 MHz)_100 M_PAR_Mid_64QAM_FullRB



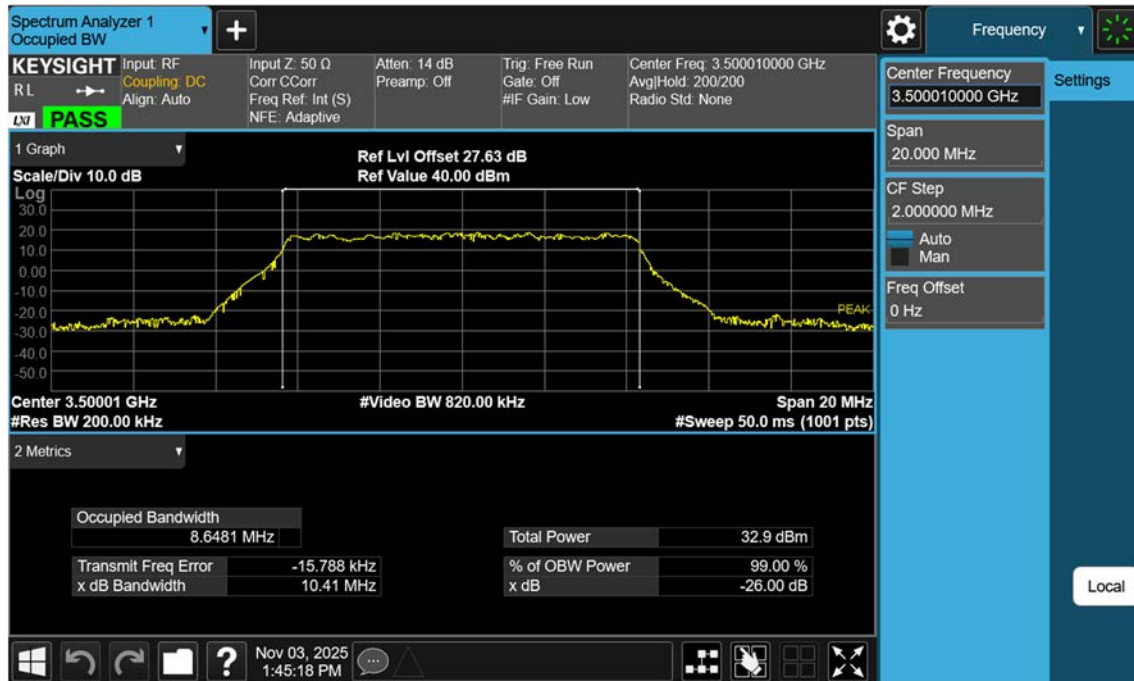
NR n77(78)(3450~3550 MHz)_100 M_PAR_Mid_256QAM_FullRB



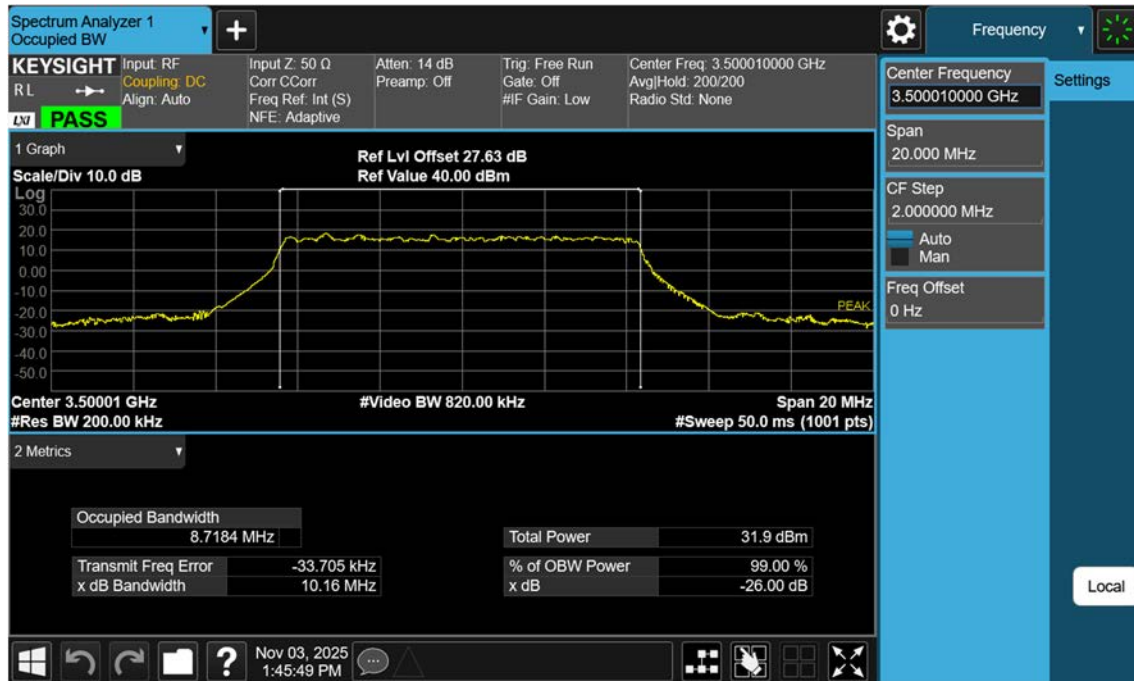
NR n77(78)(3450~3550 MHz)_10 M_OBW_Mid_PI/2 BPSK_FullIRB



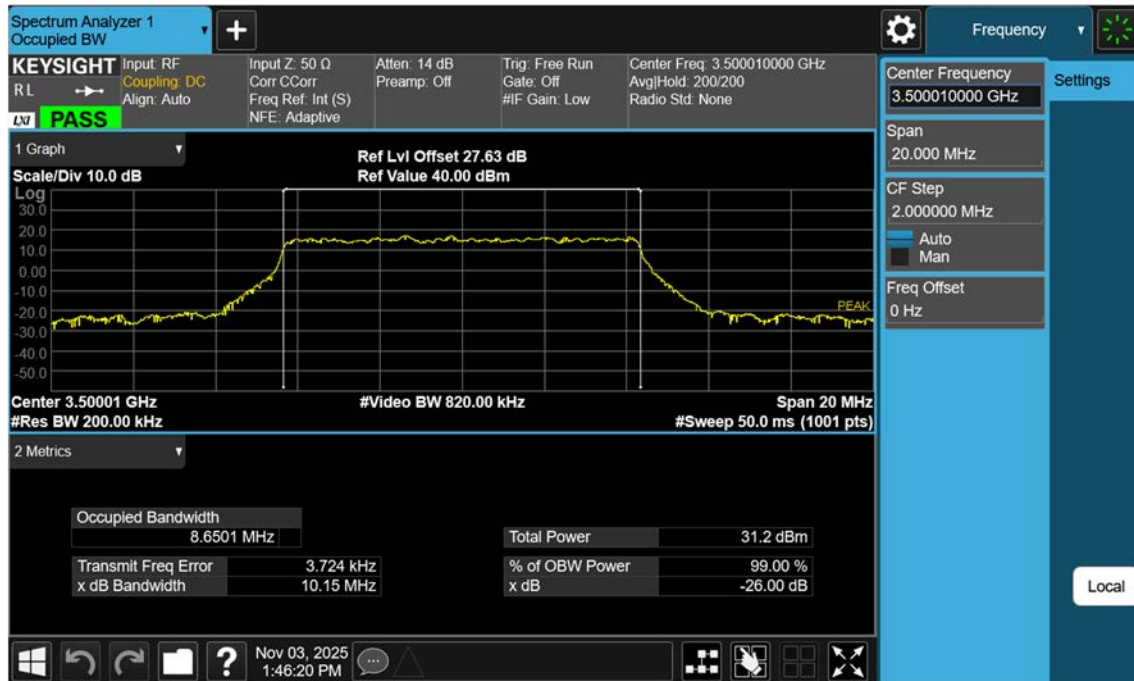
NR n77(78)(3450~3550 MHz)_10 M_OBW_Mid_QPSK_FullRB



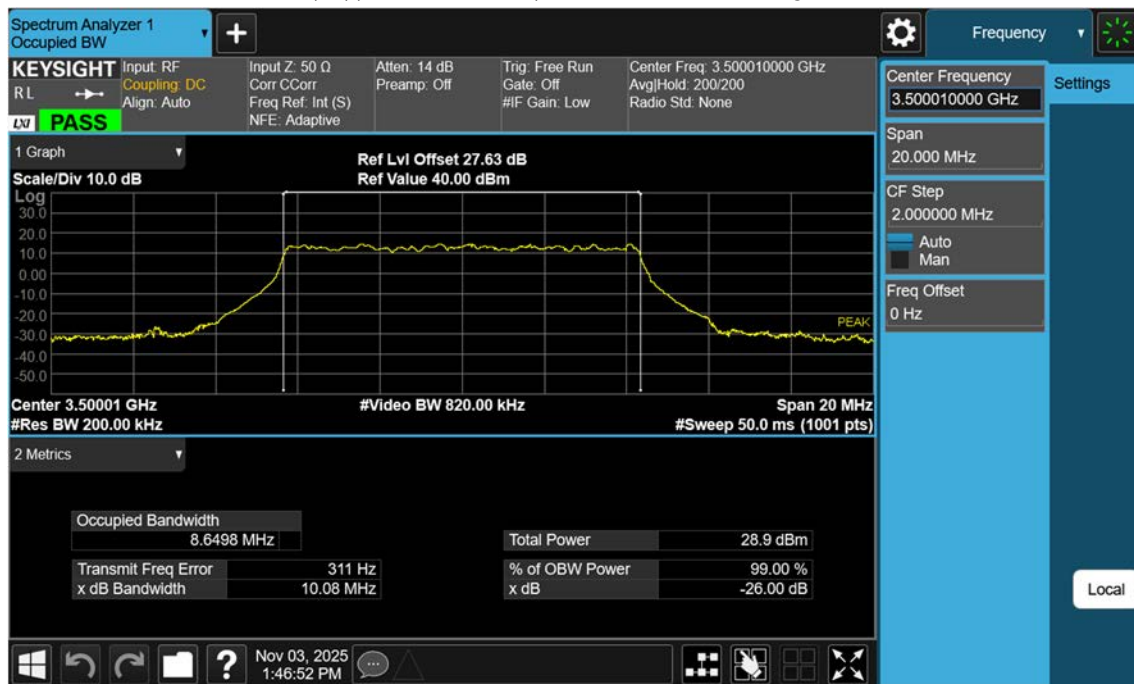
NR n77(78)(3450~3550 MHz)_10 M_OBW_Mid_16QAM_FullRB



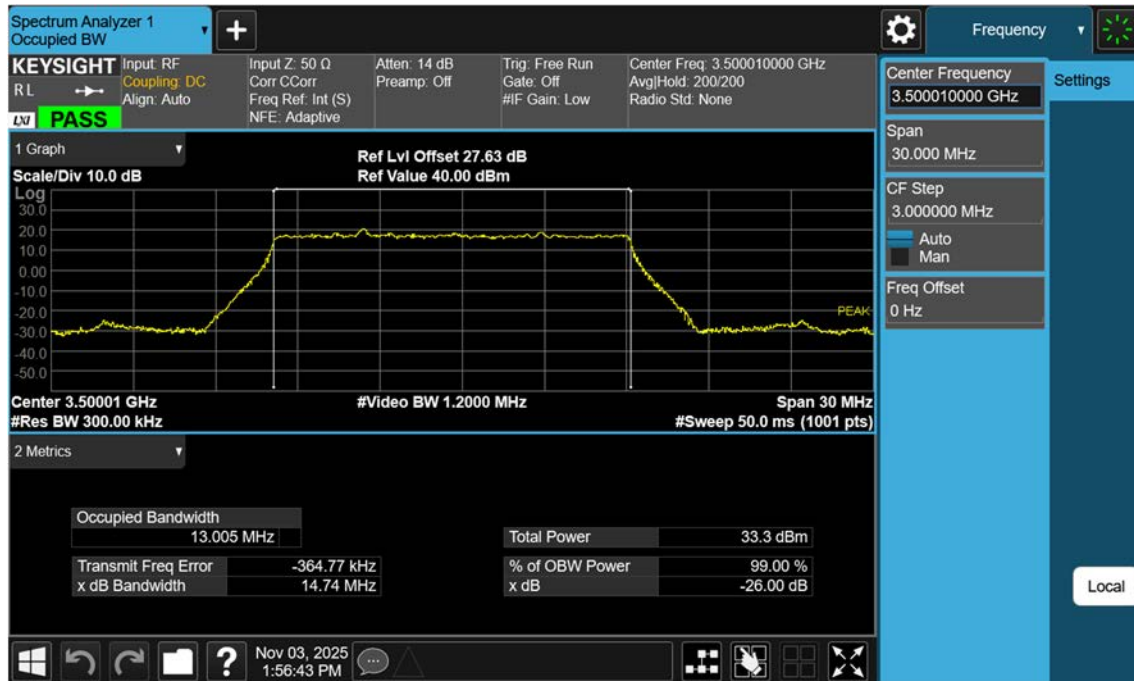
NR n77(78)(3450~3550 MHz)_10 M_OBW_Mid_64QAM_FullRB



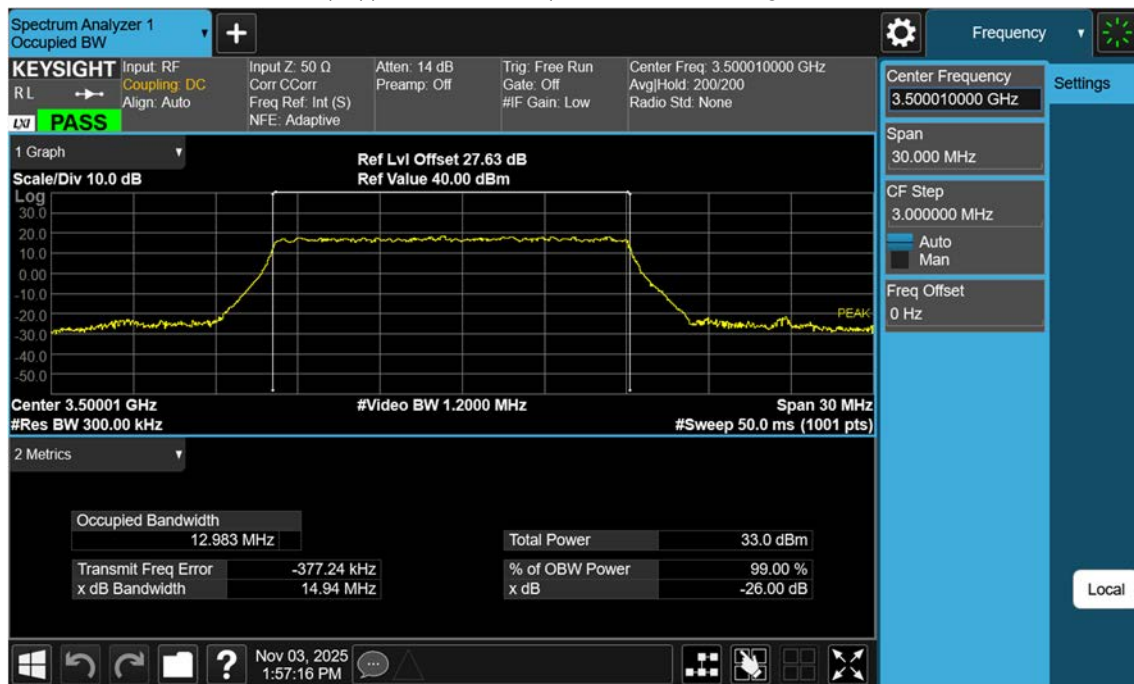
NR n77(78)(3450~3550 MHz)_10 M_OBW_Mid_256QAM_FullRB



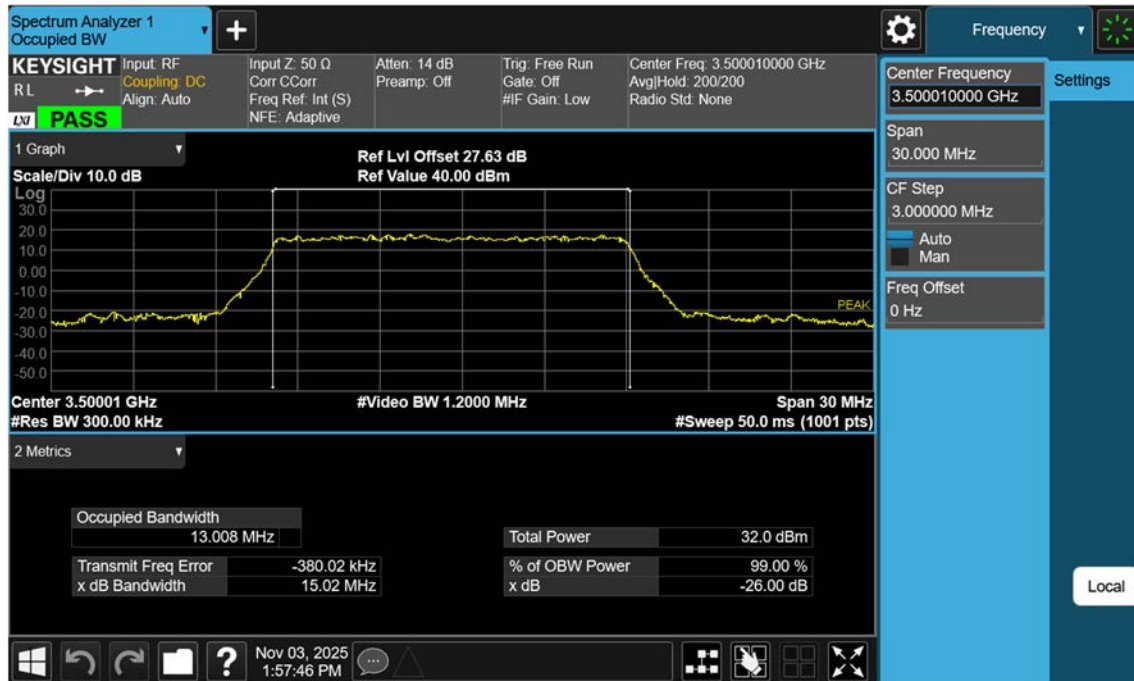
NR n77(78)(3450~3550 MHz)_15 M_OBW_Mid_PI/2 BPSK_FullIRB



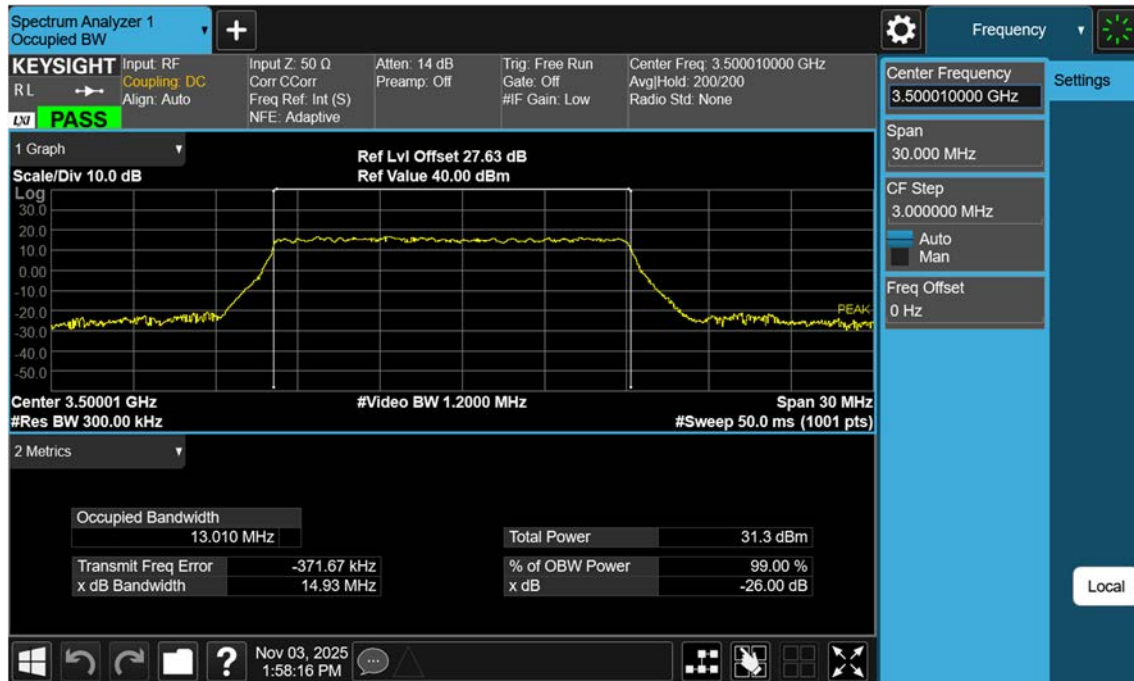
NR n77(78)(3450~3550 MHz)_15 M_OBW_Mid_QPSK_FullRB



NR n77(78)(3450~3550 MHz)_15 M_OBW_Mid_16QAM_FullRB



NR n77(78)(3450~3550 MHz)_15 M_OBW_Mid_64QAM_FullRB



NR n77(78)(3450~3550 MHz)_15 M_OBW_Mid_256QAM_FullRB

