

TEST REPORT

FCC Sub6 n77 Test for SM-F741B
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2405-FC017

DATE OF ISSUE
May 3, 2024

Tested by
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**TEST
REPORT**

REPORT NO.
HCT-RF-2405-FC017

DATE OF ISSUE
May 03, 2024

Additional Model
-

Applicant **SAMSUNG Electronics Co., Ltd.**
129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea

Product Name Mobile Phone
Model Name SM-F741B

Date of Test March 11, 2024 ~ April 26, 2024

FCC ID A3LSMF741B

Location of Test Permanent Testing Lab On Site Testing
(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383 Republic of Korea)

FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)

FCC Rule Part(s): § 27

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	May 03, 2024	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).

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

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

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	SAMSUNG Electronics Co., Ltd.
Address:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
FCC ID:	A3LSMF741B
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§ 27
EUT Type:	Mobile phone
Model(s):	SM-F741B
Additional Model(s)	-
SCS(kHz):	30
Bandwidth(MHz):	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
Waveform:	CP-OFDM, DFT-S-OFDM
Modulation:	DFT-S-OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM
Tx Frequency: (3450 MHz - 3550 MHz)	3455.01 MHz – 3544.99 MHz (Sub6 n77(10 MHz)) 3457.50 MHz – 3542.50 MHz (Sub6 n77(15 MHz)) 3460.02 MHz – 3540.00 MHz (Sub6 n77(20 MHz)) 3462.50 MHz – 3537.50 MHz (Sub6 n77(25 MHz)) 3465.00 MHz – 3534.99 MHz (Sub6 n77(30 MHz)) 3470.01 MHz – 3529.98 MHz (Sub6 n77(40 MHz)) 3475.02 MHz – 3525.00 MHz (Sub6 n77(50 MHz)) 3480.00 MHz – 3519.99 MHz (Sub6 n77(60 MHz)) 3485.01 MHz – 3514.98 MHz (Sub6 n77(70 MHz)) 3490.02 MHz – 3510.00 MHz (Sub6 n77(80 MHz)) 3495.00 MHz – 3504.99 MHz (Sub6 n77(90 MHz)) 3500.01 MHz (Sub6 n77(100 MHz))
Tx Frequency: (3700 MHz - 3980 MHz)	3705.00 MHz – 3975.00 MHz (Sub6 n77(10 MHz)) 3707.51 MHz – 3972.48 MHz (Sub6 n77(15 MHz)) 3710.01 MHz – 3969.99 MHz (Sub6 n77(20 MHz)) 3712.50 MHz – 3967.50 MHz (Sub6 n77(25 MHz)) 3715.02 MHz – 3964.98 MHz (Sub6 n77(30 MHz)) 3720.00 MHz – 3960.00 MHz (Sub6 n77(40 MHz)) 3725.10 MHz – 3954.99 MHz (Sub6 n77(50 MHz)) 3730.02 MHz – 3949.98 MHz (Sub6 n77(60 MHz)) 3735.00 MHz – 3945.00 MHz (Sub6 n77(70 MHz)) 3740.01 MHz – 3939.99 MHz (Sub6 n77(80 MHz)) 3745.02 MHz – 3934.98 MHz (Sub6 n77(90 MHz)) 3745.02 MHz – 3934.98 MHz (Sub6 n77(90 MHz)) 3750.00 MHz – 3930.00 MHz (Sub6 n77(100 MHz))
Date(s) of Tests:	March 11, 2024 ~ April 26, 2024
Serial number:	Radiated : R3CX20CZ00N Conducted : R3CX205LS3K

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)
Power Class 3	Sub6 n77 (10)	3455.01 - 3544.99	8M67G7D	PI/2 BPSK	0.192	22.83
			8M65G7D	QPSK	0.189	22.76
			8M64W7D	16QAM	0.146	21.64
			8M65W7D	64QAM	0.108	20.33
			8M63W7D	256QAM	0.065	18.12
	Sub6 n77 (15)	3457.50 - 3542.50	13M0G7D	PI/2 BPSK	0.193	22.86
			13M0G7D	QPSK	0.192	22.84
			13M0W7D	16QAM	0.148	21.71
			13M0W7D	64QAM	0.110	20.42
			13M0W7D	256QAM	0.064	18.09
	Sub6 n77 (20)	3460.02 - 3540.00	17M9G7D	PI/2 BPSK	0.206	23.14
			18M0G7D	QPSK	0.195	22.91
			18M0W7D	16QAM	0.157	21.96
			17M9W7D	64QAM	0.114	20.56
			17M9W7D	256QAM	0.064	18.06
	Sub6 n77 (25)	3462.50 - 3537.50	23M0G7D	PI/2 BPSK	0.202	23.06
			23M0G7D	QPSK	0.200	23.02
			23M1W7D	16QAM	0.157	21.96
			23M0W7D	64QAM	0.111	20.44
			23M0W7D	256QAM	0.068	18.32
	Sub6 n77 (30)	3465.00 - 3534.99	27M0G7D	PI/2 BPSK	0.201	23.03
			26M9G7D	QPSK	0.195	22.91
			27M0W7D	16QAM	0.149	21.74
			26M9W7D	64QAM	0.110	20.40
			26M9W7D	256QAM	0.065	18.12
	Sub6 n77 (40)	3470.01 - 3529.98	35M9G7D	PI/2 BPSK	0.201	23.04
			36M0G7D	QPSK	0.199	22.98
			35M9W7D	16QAM	0.155	21.89
			35M9W7D	64QAM	0.108	20.34
			35M9W7D	256QAM	0.066	18.18
	Sub6 n77 (50)	3475.02 - 3525.00	45M9G7D	PI/2 BPSK	0.209	23.20
			45M9G7D	QPSK	0.203	23.08
			45M8W7D	16QAM	0.157	21.95
			45M9W7D	64QAM	0.115	20.61
			45M9W7D	256QAM	0.067	18.29
	Sub6 n77 (60)	3480.00 - 3519.99	58M0G7D	PI/2 BPSK	0.198	22.97
			58M0G7D	QPSK	0.196	22.93
			58M0W7D	16QAM	0.151	21.80
			57M9W7D	64QAM	0.109	20.36
			58M0W7D	256QAM	0.067	18.24
	Sub6 n77 (70)	3485.01 - 3514.98	64M6G7D	PI/2 BPSK	0.198	22.97
			64M6G7D	QPSK	0.192	22.84
			64M6W7D	16QAM	0.158	21.98
			64M6W7D	64QAM	0.113	20.54
			64M6W7D	256QAM	0.065	18.14
	Sub6 n77 (80)	3490.02 - 3510.00	77M3G7D	PI/2 BPSK	0.201	23.04
			77M4G7D	QPSK	0.197	22.94
			77M4W7D	16QAM	0.156	21.94
			77M5W7D	64QAM	0.116	20.65
			77M5W7D	256QAM	0.067	18.29
Sub6 n77 (90)	3495.00 - 3504.99	87M0G7D	PI/2 BPSK	0.209	23.20	
		87M1G7D	QPSK	0.204	23.10	
		87M0W7D	16QAM	0.157	21.95	
		87M0W7D	64QAM	0.111	20.45	
		87M1W7D	256QAM	0.068	18.33	
Sub6 n77 (100)	3500.01	96M6G7D	PI/2 BPSK	0.184	22.65	
		96M7G7D	QPSK	0.177	22.49	
		96M6W7D	16QAM	0.149	21.74	
		96M8W7D	64QAM	0.107	20.29	
		96M8W7D	256QAM	0.063	17.96	

2. 3700 MHz - 3980 MHz

	Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
					Max. Power (W)	Max. Power (dBm)
Power Class 3	Sub6 n77 (10)	3705.00 - 3975.00	8M58G7D	PI/2 BPSK	0.172	22.35
			8M62G7D	QPSK	0.171	22.34
			8M67W7D	16QAM	0.131	21.18
			8M66W7D	64QAM	0.096	19.84
			8M69W7D	256QAM	0.058	17.62
	Sub6 n77 (15)	3707.51 - 3972.48	13M0G7D	PI/2 BPSK	0.176	22.45
			13M0G7D	QPSK	0.173	22.38
			13M0W7D	16QAM	0.136	21.35
			13M0W7D	64QAM	0.096	19.83
			12M9W7D	256QAM	0.058	17.63
	Sub6 n77 (20)	3710.01 - 3969.99	18M0G7D	PI/2 BPSK	0.177	22.48
			18M0G7D	QPSK	0.176	22.45
			17M9W7D	16QAM	0.137	21.37
			18M0W7D	64QAM	0.097	19.87
			18M0W7D	256QAM	0.059	17.70
	Sub6 n77 (25)	3712.50 - 3967.50	23M0G7D	PI/2 BPSK	0.199	22.98
			23M0G7D	QPSK	0.195	22.91
			23M0W7D	16QAM	0.147	21.68
			23M0W7D	64QAM	0.108	20.34
			22M9W7D	256QAM	0.065	18.14
	Sub6 n77 (30)	3715.02 - 3964.98	26M9G7D	PI/2 BPSK	0.200	23.01
			27M0G7D	QPSK	0.198	22.96
			26M9W7D	16QAM	0.153	21.86
			26M9W7D	64QAM	0.110	20.41
			27M0W7D	256QAM	0.066	18.17
	Sub6 n77 (40)	3720.00 - 3960.00	35M8G7D	PI/2 BPSK	0.206	23.14
			35M9G7D	QPSK	0.201	23.04
			35M9W7D	16QAM	0.157	21.95
			35M9W7D	64QAM	0.116	20.64
			35M9W7D	256QAM	0.069	18.36
	Sub6 n77 (50)	3725.10 - 3954.99	45M8G7D	PI/2 BPSK	0.222	23.47
			45M9G7D	QPSK	0.215	23.32
			45M9W7D	16QAM	0.173	22.37
			45M9W7D	64QAM	0.123	20.91
			45M9W7D	256QAM	0.073	18.63
	Sub6 n77 (60)	3730.02 - 3949.98	58M0G7D	PI/2 BPSK	0.224	23.50
			58M0G7D	QPSK	0.217	23.36
			58M1W7D	16QAM	0.172	22.36
			58M0W7D	64QAM	0.124	20.93
			58M0W7D	256QAM	0.073	18.63
Sub6 n77 (70)	3735.00 - 3945.00	64M7G7D	PI/2 BPSK	0.229	23.60	
		64M7G7D	QPSK	0.220	23.42	
		64M5W7D	16QAM	0.184	22.65	
		64M5W7D	64QAM	0.130	21.14	
		64M5W7D	256QAM	0.078	18.94	
Sub6 n77 (80)	3740.01 - 3939.99	77M3G7D	PI/2 BPSK	0.238	23.76	
		77M3G7D	QPSK	0.236	23.72	
		77M4W7D	16QAM	0.189	22.76	
		77M2W7D	64QAM	0.134	21.28	
		77M3W7D	256QAM	0.077	18.89	
Sub6 n77 (90)	3745.02 - 3934.98	86M9G7D	PI/2 BPSK	0.238	23.77	
		87M0G7D	QPSK	0.229	23.59	
		87M2W7D	16QAM	0.173	22.39	
		87M1W7D	64QAM	0.128	21.07	
		87M0W7D	256QAM	0.078	18.93	
Sub6 n77 (100)	3750.00 - 3930.00	96M7G7D	PI/2 BPSK	0.212	23.26	
		96M8G7D	QPSK	0.210	23.22	
		96M6W7D	16QAM	0.169	22.28	
		96M7W7D	64QAM	0.124	20.95	
		97M0W7D	256QAM	0.073	18.66	

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

The EUT was a Mobile Phone with GSM/GPRS/EGPRS/UMTS and LTE, Sub 6. It also supports IEEE 802.11 a/b/g/n/ac/ax (20/40/80/160 MHz), Bluetooth(iPA, ePA), BT LE(iPA, ePA), NFC, WPT, WIFI 6E.

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, 17383, Rep. of KOREA.**

3. DESCRIPTION OF TESTS

3.1 TEST PROCEDURE

Test Description	Test Procedure Used
Occupied Bandwidth	- KDB 971168 D01 v03r01 – Section 4.3 - ANSI C63.26-2015 – Section 5.4.4
Band Edge	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Spurious and Harmonic Emissions at Antenna Terminal	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Conducted Output Power	- N/A (See SAR Report)
Peak- to- Average Ratio	- KDB 971168 D01 v03r01 – Section 5.7 - ANSI C63.26-2015 – Section 5.2.3.4
Frequency stability	- ANSI C63.26-2015 – Section 5.6
Effective Radiated Power/ Effective Isotropic Radiated Power	- KDB 971168 D01 v03r01 – Section 5.2 & 5.8 - ANSI/TIA-603-E-2016 – Section 2.2.17
Radiated Spurious and Harmonic Emissions	- KDB 971168 D01 v03r01 – Section 6.2 - ANSI/TIA-603-E-2016 – Section 2.2.12

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 in accordance with ANSI/TIA-603-E-2016 Clause 2.2.17.

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 according to ANSI/TIA-603-E-2016.

Test Settings

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

Test Note

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

The spurious emissions is calculated by the following formula;

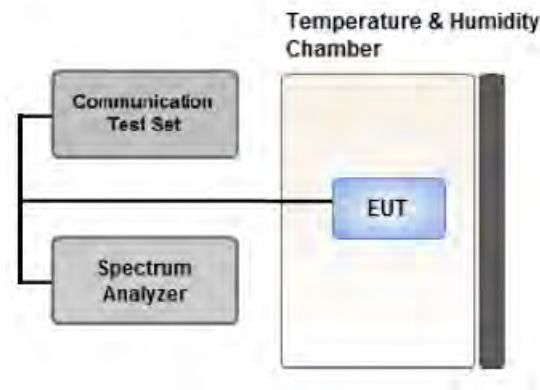
$$\text{Result}_{(dBm)} = P_g_{(dBm)} - \text{cable loss}_{(dB)} + \text{antenna gain}_{(dBi)}$$

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.

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

3.4 PEAK- TO- AVERAGE RATIO



Test setup

① CCDF Procedure for PAPR

Test Settings

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

② Alternate Procedure for PAPR

Use one of the procedures presented in 5.2(ANSI C63.26-2015) to measure the total peak power and record as P_{Pk} .

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

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

Test Settings(Peak Power)

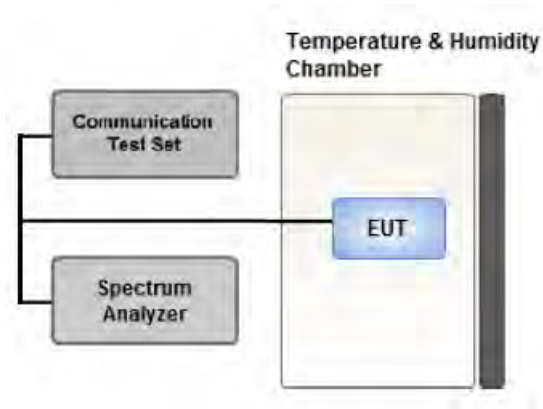
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

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

Test Settings(Average Power)

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

3.5 OCCUPIED BANDWIDTH.



Test setup

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

The EUT makes a call to the communication simulator.

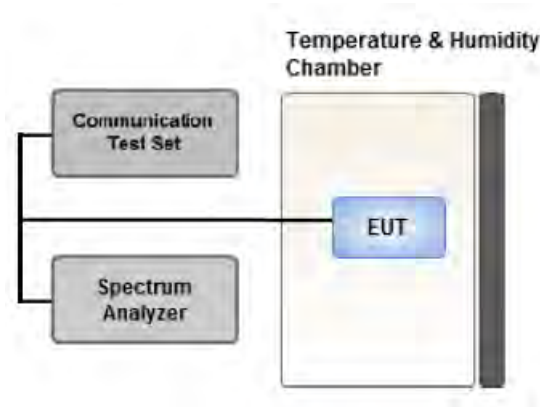
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

Test Settings

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

3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

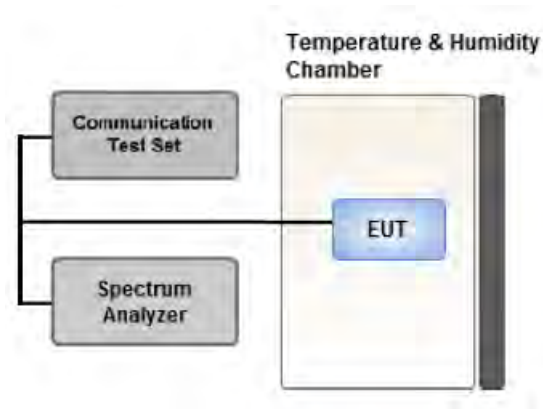
Test Overview

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

Test Settings

1. RBW = 1 MHz
2. VBW \geq 3 MHz
3. Detector = RMS
4. Trace Mode = trace average
5. Sweep time = auto
6. Number of points in sweep \geq 2 x Span / RBW

3.7 BAND EDGE



Test setup

Test Overview

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

Test Settings

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

Test Notes

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

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

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

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

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

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

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

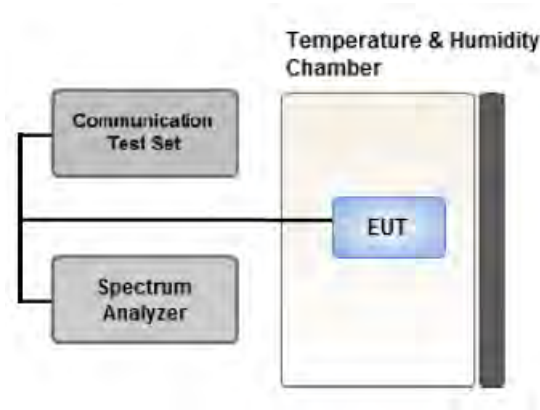
However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz.

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

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

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

3.8 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE



Test setup

Test Overview

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

The frequency stability of the transmitter is measured by:

1. Temperature:

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

2. Primary Supply Voltage:

- Unless otherwise specified, vary primary supply voltage from 85 % to 115 % of the nominal value for other than hand carried battery equipment.

- For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20 °C to provide a reference).

2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter.

Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.

3. Frequency measurements are made at 10 °C intervals ranging from -30 °C to +50 °C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

3.9 WORST CASE(RADIATED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
(Worst case: DFT-S-OFDM)
- The EUT was tested in three orthogonal planes(X, Y, Z) and in all possible test configurations and positioning.
- The EUT was tested in three modes(Open, Half-open, Closed), the worst case configuration results are reported. (Worst case: Open mode)
- 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: PC3 Only (SA, NSA)
Worst case: SA mode
Mode : Stand alone, Stand alone + External accessories (Earphone, AC adapter, etc)
Worst case : Stand alone
- We were performed the RSE test in condition of co-location.
Mode : Stand alone, Simultaneous transmission scenarios
Worst case : Stand alone
- All power classes were tested, and the results were reported for the worst case PC3. (PC3 Only)
- Radiated Spurious emissions are measured while operating in EN-DC mode with Sub 6 NR carrier as well as an LTE carrier (anchor).
All EN-DC mode of operation (=anchor) were investigated and the test results were measured No Peak Found.
The test results which are attenuated more than 20 dB below the permissible value, so it was not reported.
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.
- In the case of radiated spurious emissions, all bandwidth of operation were investigated and the worst case bandwidth results are reported.
(Worst case : 90 MHz)

[3450 MHz - 3550 MHz Worst case]

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

[3700 MHz - 3980 MHz Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Effective Isotropic Radiated Power	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	See Section 9.1		X
Radiated Spurious and Harmonic Emissions	PI/2 BPSK	See Section 9.2		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: PC3 Only (SA, NSA)
Worst case: SA mode
- All power classes were tested, and the results were reported for the worst case PC3. (PC3 Only)
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.

[Worst case]

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

4. LIST OF TEST EQUIPMENT

Equipment	Model	Manufacture	Serial No.	Due to Calibration	Calibration Interval
Precision Dipole Antenna	UHAP	Schwarzbeck	01273	03/10/2026	Biennial
Precision Dipole Antenna	UHAP	Schwarzbeck	01274	03/10/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	02289	02/14/2026	Biennial
Horn Antenna(1~18 GHz)	BBHA 9120D	Schwarzbeck	9120D-1299	04/27/2025	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170342	09/29/2024	Biennial
Horn Antenna(15~40 GHz)	BBHA 9170	Schwarzbeck	BBHA9170124	03/28/2025	Biennial
Loop Antenna(9 kHz~30 MHz)	FMZB1513	Rohde & Schwarz	1513-175	01/16/2025	Biennial
Bilog Antenna	VULB9160	Schwarzbeck	3150	03/09/2025	Biennial
Hybrid Antenna	VULB9160	Schwarzbeck	760	02/24/2025	Biennial
RF Switching System	FBSR-06B (1G HPF + LNA)	T&M SYSTEM	F3L1	05/22/2024	Annual
RF Switching System	FBSR-06B (3G HPF + LNA)	T&M SYSTEM	F3L2	05/22/2024	Annual
RF Switching System	FBSR-06B (6G HPF + LNA)	T&M SYSTEM	F3L3	05/22/2024	Annual
RF Switching System	FBSR-06B (LNA)	T&M SYSTEM	F3L4	05/22/2024	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/17/2024	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/26/2025	Annual
DC Power Supply	E3632A	Hewlett Packard	MY40004427	08/25/2024	Annual
Power Splitter(DC~26.5 GHz)	11667B	Hewlett Packard	11275	02/29/2025	Annual
Chamber	SU-642	ESPEC	93008124	02/19/2025	Annual
Signal Analyzer(10 Hz~26.5 GHz)	N9020A	Agilent	MY51110063	04/04/2025	Annual
ATTENUATOR(20 dB)	8493C	Hewlett Packard	17280	04/17/2025	Annual
Spectrum Analyzer(10 Hz~40 GHz)	FSV40	REOHDE & SCHWARZ	101436	02/13/2025	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/10/2024	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/22/2024	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6262302511	05/23/2024	Annual
SIGNAL GENERATOR (100 kHz~40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	06/22/2024	Annual
Signal Analyzer(5 Hz~40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/24/2024	Annual
4-Way Divider	ZC4PD-K1844+	Mini-Circuits	942907	09/19/2024	Annual
FCC LTE Mobile Conducted RF Automation Test Software	-	HCT CO., LTD.,	-	-	-

Note:

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

5. MEASUREMENT UNCERTAINTY

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

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

Parameter	Expanded Uncertainty (\pm dB)
Conducted Disturbance (150 kHz ~ 30 MHz)	1.98 (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)	5.70 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (1 GHz ~ 18 GHz)	5.52 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (18 GHz ~ 40 GHz)	5.66 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (Above 40 GHz)	5.58 (Confidence level about 95 %, $k=2$)

6. SUMMARY OF TEST RESULTS

6.1 Test Condition : Conducted Test

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

Note:

1. See SAR Report
2. All conducted tests were tested using 5G Wireless Tester.

6.2 Test Condition : Radiated Test

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

Note:

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

7. SAMPLE CALCULATION

7.1 ERP Sample Calculation

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

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

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

7.2 EIRP Sample Calculation

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

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

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

7.3. Emission Designator

GSM Emission Designator

Emission Designator = 249KGXW

GSM BW = 249 kHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

EDGE Emission Designator

Emission Designator = 249KG7W

GSM BW = 249 kHz

G = Phase Modulation

7 = Quantized/Digital Info

W = Combination (Audio/Data)

WCDMA Emission Designator

Emission Designator = 4M17F9W

WCDMA BW = 4.17 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

QPSK Modulation

Emission Designator = 4M48G7D

LTE BW = 4.48 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

QAM Modulation

Emission Designator = 4M48W7D

LTE BW = 4.48 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission; telemetry; telecommand

8. TEST DATA(3450 MHz - 3550 MHz)

8.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
									W	W	dBm	Size
3455.01		PI/2 BPSK	-23.62	14.32	11.20	2.96	H	< 1.00	0.181	22.57	1	22
		QPSK	-23.65	14.29	11.20	2.96	H		0.179	22.54		
		16-QAM	-25.00	12.94	11.20	2.96	H		0.132	21.19		
		64-QAM	-26.34	11.60	11.20	2.96	H		0.097	19.85		
		256-QAM	-28.60	9.34	11.20	2.96	H		0.057	17.59		
3500.01	Sub6 n77/ 10 MHz [30 kHz]	PI/2 BPSK	-23.72	14.53	11.30	3.00	H	< 1.00	0.192	22.83	1	1
		QPSK	-23.79	14.46	11.30	3.00	H		0.189	22.76		
		16-QAM	-24.91	13.34	11.30	3.00	H		0.146	21.64		
		64-QAM	-26.22	12.03	11.30	3.00	H		0.108	20.33		
		256-QAM	-28.43	9.82	11.30	3.00	H		0.065	18.12		
3544.98		PI/2 BPSK	-24.62	13.45	11.35	3.02	H	< 1.00	0.151	21.78	1	22
		QPSK	-24.76	13.31	11.35	3.02	H		0.146	21.64		
		16-QAM	-25.73	12.34	11.35	3.02	H		0.117	20.67		
		64-QAM	-27.13	10.94	11.35	3.02	H		0.085	19.27		
		256-QAM	-29.36	8.71	11.35	3.02	H		0.051	17.04		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3457.50		PI/2 BPSK	-23.66	14.25	11.20	2.95	H	< 1.00	0.178	22.50	1	36
		QPSK	-23.90	14.01	11.20	2.95	H		0.168	22.26		
		16-QAM	-24.87	13.04	11.20	2.95	H		0.135	21.29		
		64-QAM	-26.11	11.80	11.20	2.95	H		0.101	20.05		
		256-QAM	-28.58	9.33	11.20	2.95	H		0.057	17.58		
3500.01	Sub6 n77/ 15 MHz [30 kHz]	PI/2 BPSK	-23.69	14.56	11.30	3.00	H	< 1.00	0.193	22.86	1	19
		QPSK	-23.71	14.54	11.30	3.00	H		0.192	22.84		
		16-QAM	-24.84	13.41	11.30	3.00	H		0.148	21.71		
		64-QAM	-26.13	12.12	11.30	3.00	H		0.110	20.42		
		256-QAM	-28.46	9.79	11.30	3.00	H		0.064	18.09		
3542.50		PI/2 BPSK	-24.39	13.56	11.30	3.02	H	< 1.00	0.153	21.84	1	1
		QPSK	-24.53	13.42	11.30	3.02	H		0.148	21.70		
		16-QAM	-25.80	12.15	11.30	3.02	H		0.110	20.43		
		64-QAM	-26.88	11.07	11.30	3.02	H		0.086	19.35		
		256-QAM	-29.13	8.82	11.30	3.02	H		0.051	17.10		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3460.02		PI/2 BPSK	-23.58	14.33	11.20	2.95	H	< 1.00	0.181	22.58	1	49
		QPSK	-23.60	14.31	11.20	2.95	H		0.180	22.56		
		16-QAM	-24.68	13.23	11.20	2.95	H		0.141	21.48		
		64-QAM	-26.21	11.70	11.20	2.95	H		0.099	19.95		
		256-QAM	-28.26	9.65	11.20	2.95	H		0.062	17.90		
3500.01	Sub6 n77/ 20 MHz [30 kHz]	PI/2 BPSK	-23.41	14.84	11.30	3.00	H	< 1.00	0.206	23.14	1	1
		QPSK	-23.64	14.61	11.30	3.00	H		0.195	22.91		
		16-QAM	-24.59	13.66	11.30	3.00	H		0.157	21.96		
		64-QAM	-25.99	12.26	11.30	3.00	H		0.114	20.56		
		256-QAM	-28.49	9.76	11.30	3.00	H		0.064	18.06		
3540.00		PI/2 BPSK	-24.15	13.80	11.30	3.02	H	< 1.00	0.161	22.08	1	1
		QPSK	-24.29	13.66	11.30	3.02	H		0.156	21.94		
		16-QAM	-25.32	12.63	11.30	3.02	H		0.123	20.91		
		64-QAM	-26.71	11.24	11.30	3.02	H		0.090	19.52		
		256-QAM	-29.13	8.82	11.30	3.02	H		0.051	17.10		

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		PI/2 BPSK	-23.44	14.47	11.20	2.95	H	< 1.00	0.187	22.72	1	63
		QPSK	-23.53	14.38	11.20	2.95	H		0.183	22.63		
		16-QAM	-24.66	13.25	11.20	2.95	H		0.141	21.50		
		64-QAM	-26.05	11.86	11.20	2.95	H		0.103	20.11		
		256-QAM	-28.36	9.55	11.20	2.95	H		0.060	17.80		
3500.01	Sub6 n77/ 25 MHz [30 kHz]	PI/2 BPSK	-23.49	14.76	11.30	3.00	H	< 1.00	0.202	23.06	1	1
		QPSK	-23.53	14.72	11.30	3.00	H		0.200	23.02		
		16-QAM	-24.59	13.66	11.30	3.00	H		0.157	21.96		
		64-QAM	-26.11	12.14	11.30	3.00	H		0.111	20.44		
		256-QAM	-28.23	10.02	11.30	3.00	H		0.068	18.32		
3537.50		PI/2 BPSK	-24.09	13.86	11.30	3.02	H	< 1.00	0.164	22.14	1	1
		QPSK	-24.17	13.78	11.30	3.02	H		0.161	22.06		
		16-QAM	-25.18	12.77	11.30	3.02	H		0.127	21.05		
		64-QAM	-26.53	11.42	11.30	3.02	H		0.093	19.70		
		256-QAM	-28.90	9.05	11.30	3.02	H		0.054	17.33		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
									W	W	dBm	Size
3465.00		PI/2 BPSK	-23.59	14.28	11.20	2.95	H	< 1.00	0.179	22.53	1	76
		QPSK	-23.73	14.14	11.20	2.95	H		0.173	22.39		
		16-QAM	-24.71	13.16	11.20	2.95	H		0.138	21.41		
		64-QAM	-26.16	11.71	11.20	2.95	H		0.099	19.96		
		256-QAM	-28.51	9.36	11.20	2.95	H		0.058	17.61		
3500.01	Sub6 n77/ 30 MHz [30 kHz]	PI/2 BPSK	-23.52	14.73	11.30	3.00	H	< 1.00	0.201	23.03	1	1
		QPSK	-23.64	14.61	11.30	3.00	H		0.195	22.91		
		16-QAM	-24.81	13.44	11.30	3.00	H		0.149	21.74		
		64-QAM	-26.15	12.10	11.30	3.00	H		0.110	20.40		
		256-QAM	-28.43	9.82	11.30	3.00	H		0.065	18.12		
3534.99		PI/2 BPSK	-23.90	14.01	11.30	3.01	H	< 1.00	0.170	22.31	1	1
		QPSK	-24.00	13.91	11.30	3.01	H		0.166	22.21		
		16-QAM	-25.10	12.81	11.30	3.01	H		0.129	21.11		
		64-QAM	-26.52	11.39	11.30	3.01	H		0.093	19.69		
		256-QAM	-28.71	9.20	11.30	3.01	H		0.056	17.50		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
									W	W	dBm	Size
3470.01		PI/2 BPSK	-23.69	14.14	11.20	2.95	H	< 1.00	0.173	22.39	1	104
		QPSK	-23.73	14.10	11.20	2.95	H		0.172	22.35		
		16-QAM	-25.01	12.82	11.20	2.95	H		0.128	21.07		
		64-QAM	-26.29	11.54	11.20	2.95	H		0.095	19.79		
		256-QAM	-28.40	9.43	11.20	2.95	H		0.059	17.68		
3500.01	Sub6 n77/ 40 MHz [30 kHz]	PI/2 BPSK	-23.51	14.74	11.30	3.00	H	< 1.00	0.201	23.04	1	1
		QPSK	-23.57	14.68	11.30	3.00	H		0.199	22.98		
		16-QAM	-24.66	13.59	11.30	3.00	H		0.155	21.89		
		64-QAM	-26.21	12.04	11.30	3.00	H		0.108	20.34		
		256-QAM	-28.37	9.88	11.30	3.00	H		0.066	18.18		
3529.98		PI/2 BPSK	-23.82	14.06	11.30	2.99	H	< 1.00	0.173	22.37	1	1
		QPSK	-23.91	13.97	11.30	2.99	H		0.169	22.28		
		16-QAM	-24.98	12.90	11.30	2.99	H		0.132	21.21		
		64-QAM	-26.45	11.43	11.30	2.99	H		0.094	19.74		
		256-QAM	-28.81	9.07	11.30	2.99	H		0.055	17.38		

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
3475.02		PI/2 BPSK	-23.62	14.26	11.20	2.97	H	< 1.00	0.177	22.49	1	1
		QPSK	-23.70	14.18	11.20	2.97	H		0.174	22.41		
		16-QAM	-24.69	13.19	11.20	2.97	H		0.139	21.42		
		64-QAM	-26.18	11.70	11.20	2.97	H		0.098	19.93		
		256-QAM	-28.63	9.25	11.20	2.97	H		0.056	17.48		
3500.01	Sub6 n77/ 50 MHz [30 kHz]	PI/2 BPSK	-23.35	14.90	11.30	3.00	H	< 1.00	0.209	23.20	1	1
		QPSK	-23.47	14.78	11.30	3.00	H		0.203	23.08		
		16-QAM	-24.60	13.65	11.30	3.00	H		0.157	21.95		
		64-QAM	-25.94	12.31	11.30	3.00	H		0.115	20.61		
		256-QAM	-28.26	9.99	11.30	3.00	H		0.067	18.29		
3525.00		PI/2 BPSK	-23.53	14.37	11.30	2.98	H	< 1.00	0.186	22.69	1	1
		QPSK	-23.60	14.30	11.30	2.98	H		0.183	22.62		
		16-QAM	-24.81	13.09	11.30	2.98	H		0.138	21.41		
		64-QAM	-26.16	11.74	11.30	2.98	H		0.101	20.06		
		256-QAM	-28.31	9.59	11.30	2.98	H		0.062	17.91		

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
3480.00		PI/2 BPSK	-23.92	14.02	11.20	2.99	H	< 1.00	0.167	22.23	1	1
		QPSK	-24.00	13.94	11.20	2.99	H		0.164	22.15		
		16-QAM	-25.00	12.94	11.20	2.99	H		0.130	21.15		
		64-QAM	-26.50	11.44	11.20	2.99	H		0.092	19.65		
		256-QAM	-28.66	9.28	11.20	2.99	H		0.056	17.49		
3500.01	Sub6 n77/ 60 MHz [30 kHz]	PI/2 BPSK	-23.58	14.67	11.30	3.00	H	< 1.00	0.198	22.97	1	1
		QPSK	-23.62	14.63	11.30	3.00	H		0.196	22.93		
		16-QAM	-24.79	13.46	11.30	3.00	H		0.150	21.76		
		64-QAM	-26.19	12.06	11.30	3.00	H		0.109	20.36		
		256-QAM	-28.31	9.94	11.30	3.00	H		0.067	18.24		
3519.99		PI/2 BPSK	-23.53	14.39	11.30	2.97	H	< 1.00	0.187	22.72	1	1
		QPSK	-23.60	14.32	11.30	2.97	H		0.184	22.65		
		16-QAM	-24.45	13.47	11.30	2.97	H		0.151	21.80		
		64-QAM	-26.07	11.85	11.30	2.97	H		0.104	20.18		
		256-QAM	-28.21	9.71	11.30	2.97	H		0.064	18.04		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
									W	W dBm	Size	Offset
3485.01		PI/2 BPSK	-23.93	14.08	11.20	3.00	H	< 1.00	0.169	22.28	1	1
		QPSK	-24.00	14.01	11.20	3.00	H		0.166	22.21		
		16-QAM	-25.05	12.96	11.20	3.00	H		0.131	21.16		
		64-QAM	-26.42	11.59	11.20	3.00	H		0.095	19.79		
		256-QAM	-28.75	9.26	11.20	3.00	H		0.056	17.46		
3500.01	Sub6 n77/ 70 MHz [30 kHz]	PI/2 BPSK	-23.58	14.67	11.30	3.00	H	< 1.00	0.198	22.97	1	1
		QPSK	-23.71	14.54	11.30	3.00	H		0.192	22.84		
		16-QAM	-24.57	13.68	11.30	3.00	H		0.158	21.98		
		64-QAM	-26.01	12.24	11.30	3.00	H		0.113	20.54		
		256-QAM	-28.41	9.84	11.30	3.00	H		0.065	18.14		
3514.98		PI/2 BPSK	-23.62	14.44	11.30	2.98	H	< 1.00	0.189	22.77	1	1
		QPSK	-23.75	14.31	11.30	2.98	H		0.184	22.64		
		16-QAM	-24.51	13.55	11.30	2.98	H		0.154	21.88		
		64-QAM	-25.96	12.10	11.30	2.98	H		0.110	20.43		
		256-QAM	-28.39	9.67	11.30	2.98	H		0.063	18.00		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
									W	W	dBm	Size
3490.02		PI/2 BPSK	-23.79	14.29	11.20	3.00	H	< 1.00	0.177	22.49	1	1
		QPSK	-23.86	14.22	11.20	3.00	H		0.175	22.42		
		16-QAM	-24.90	13.18	11.20	3.00	H		0.137	21.38		
		64-QAM	-26.46	11.62	11.20	3.00	H		0.096	19.82		
		256-QAM	-28.61	9.47	11.20	3.00	H		0.058	17.67		
3500.01	Sub6 n77/ 80 MHz [30 kHz]	PI/2 BPSK	-23.51	14.74	11.30	3.00	H	< 1.00	0.201	23.04	1	1
		QPSK	-23.61	14.64	11.30	3.00	H		0.197	22.94		
		16-QAM	-24.61	13.64	11.30	3.00	H		0.156	21.94		
		64-QAM	-25.90	12.35	11.30	3.00	H		0.116	20.65		
		256-QAM	-28.41	9.84	11.30	3.00	H		0.065	18.14		
3510.00		PI/2 BPSK	-23.49	14.72	11.30	2.98	H	< 1.00	0.201	23.04	1	1
		QPSK	-23.71	14.50	11.30	2.98	H		0.191	22.82		
		16-QAM	-24.62	13.59	11.30	2.98	H		0.155	21.91		
		64-QAM	-26.09	12.12	11.30	2.98	H		0.111	20.44		
		256-QAM	-28.24	9.97	11.30	2.98	H		0.067	18.29		

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
3495.00		PI/2 BPSK	-23.70	14.47	11.25	3.00	H	< 1.00	0.187	22.72	1	1
		QPSK	-23.80	14.37	11.25	3.00	H		0.183	22.62		
		16-QAM	-24.85	13.32	11.25	3.00	H		0.144	21.57		
		64-QAM	-26.33	11.84	11.25	3.00	H		0.102	20.09		
		256-QAM	-28.59	9.58	11.25	3.00	H		0.061	17.83		
3500.01	Sub6 n77/ 90 MHz [30 kHz]	PI/2 BPSK	-23.61	14.64	11.30	3.00	H	< 1.00	0.197	22.94	1	1
		QPSK	-23.70	14.55	11.30	3.00	H		0.193	22.85		
		16-QAM	-24.70	13.55	11.30	3.00	H		0.153	21.85		
		64-QAM	-26.11	12.14	11.30	3.00	H		0.111	20.44		
		256-QAM	-28.39	9.86	11.30	3.00	H		0.065	18.16		
3504.99		PI/2 BPSK	-23.34	14.89	11.30	2.99	H	< 1.00	0.209	23.20	1	1
		QPSK	-23.44	14.79	11.30	2.99	H		0.204	23.10		
		16-QAM	-24.59	13.64	11.30	2.99	H		0.157	21.95		
		64-QAM	-26.09	12.14	11.30	2.99	H		0.111	20.45		
		256-QAM	-28.21	10.02	11.30	2.99	H		0.068	18.33		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3500.01	Sub6 n77/ 100 MHz [30 kHz]	PI/2 BPSK	-23.90	14.35	11.30	3.00	H	< 1.00	0.184	22.65	1	1
		QPSK	-24.06	14.19	11.30	3.00	H		0.177	22.49		
		16-QAM	-24.81	13.44	11.30	3.00	H		0.149	21.74		
		64-QAM	-26.26	11.99	11.30	3.00	H		0.107	20.29		
		256-QAM	-28.59	9.66	11.30	3.00	H		0.063	17.96		

8.2 RADIATED SPURIOUS EMISSIONS

▣ NR Band:	<u>N77(78)</u>
▣ Bandwidth:	<u>90 MHz</u>
▣ Modulation:	<u>PI/2 BPSK</u>
▣ Distance:	<u>1 meters</u>
▣ SCS:	<u>30 kHz</u>

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
633000 (3495.00)	6 990.00	-64.54	10.90	-58.57	4.30	V	-51.97	-13.00	1	1
	10 485.00	-63.83	11.30	-53.44	5.43	V	-47.56	-13.00		
	13 980.00	-60.83	12.30	-51.12	6.35	V	-45.17	-13.00		
	17 475.00	-66.90	15.80	-47.00	7.26	V	-38.45	-13.00		
633334 (3500.01)	7,000.02	-64.82	10.90	-58.90	4.32	V	-52.32	-13.00	1	1
	10,500.03	-65.76	11.30	-55.16	5.41	V	-49.27	-13.00		
	14,000.04	-61.04	12.30	-51.69	6.35	V	-45.74	-13.00		
	17,500.05	-66.89	15.70	-46.80	7.23	V	-38.33	-13.00		
636666 (3504.99)	7,009.98	-64.40	10.90	-58.31	4.34	V	-51.75	-13.00	1	1
	10,514.97	-64.86	11.30	-54.48	5.40	V	-48.58	-13.00		
	14,019.96	-60.60	12.30	-51.50	6.38	V	-45.58	-13.00		
	17,524.95	-66.94	15.70	-45.68	7.26	V	-37.23	-13.00		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n77	10 MHz	3500.01	BPSK	Full RB	0	4.81
			QPSK			5.61
			16-QAM			6.21
			64-QAM			6.36
			256-QAM			6.66
	15 MHz		BPSK			4.17
			QPSK			5.45
			16-QAM			6.22
			64-QAM			6.49
			256-QAM			6.73
	20 MHz		BPSK			4.14
			QPSK			5.30
			16-QAM			6.14
			64-QAM			6.47
			256-QAM			6.61
	25 MHz		BPSK			4.33
			QPSK			5.46
			16-QAM			6.22
			64-QAM			6.43
			256-QAM			6.55
	30 MHz		BPSK			4.14
			QPSK			5.32
			16-QAM			6.15
			64-QAM			6.48
			256-QAM			6.69
	40 MHz		BPSK			3.98
			QPSK			5.25
			16-QAM			6.21
			64-QAM			6.42
			256-QAM			6.66
	50 MHz		BPSK			4.12
			QPSK			5.33
			16-QAM			6.16
			64-QAM			6.45
			256-QAM			6.62
	60 MHz		BPSK			4.18
			QPSK			5.41
			16-QAM			6.26
			64-QAM			6.44
			256-QAM			6.62
70 MHz	BPSK	4.22				
	QPSK	5.42				
	16-QAM	6.27				
	64-QAM	6.49				
	256-QAM	6.65				

80 MHz	BPSK	4.09
	QPSK	5.36
	16-QAM	6.26
	64-QAM	6.46
	256-QAM	6.63
90 MHz	BPSK	4.37
	QPSK	5.44
	16-QAM	6.19
	64-QAM	6.49
	256-QAM	6.61
100 MHz	BPSK	4.58
	QPSK	5.54
	16-QAM	6.26
	64-QAM	6.49
	256-QAM	6.66

Note:

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

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n77	10 MHz	3500.01	BPSK	Full RB	0	8.6645
			QPSK			8.6474
			16-QAM			8.6372
			64-QAM			8.6478
			256-QAM			8.6337
	15 MHz		BPSK			12.962
			QPSK			12.985
			16-QAM			12.956
			64-QAM			12.990
			256-QAM			12.961
	20 MHz		BPSK			17.927
			QPSK			17.985
			16-QAM			17.961
			64-QAM			17.942
			256-QAM			17.937
	25 MHz		BPSK			22.993
			QPSK			22.947
			16-QAM			23.059
			64-QAM			22.993
			256-QAM			22.985
	30 MHz		BPSK			26.984
			QPSK			26.905
			16-QAM			26.950
			64-QAM			26.914
			256-QAM			26.930
	40 MHz		BPSK			35.878
			QPSK			35.952
			16-QAM			35.924
			64-QAM			35.896
			256-QAM			35.914
	50 MHz		BPSK			45.857
			QPSK			45.942
16-QAM		45.819				
64-QAM		45.905				
256-QAM		45.847				
60 MHz	BPSK	58.039				
	QPSK	58.017				
	16-QAM	57.955				
	64-QAM	57.918				
	256-QAM	58.038				
70 MHz	BPSK	64.556				
	QPSK	64.617				
	16-QAM	64.581				
	64-QAM	64.622				
	256-QAM	64.605				

80 MHz	BPSK	77.291
	QPSK	77.376
	16-QAM	77.376
	64-QAM	77.448
	256-QAM	77.506
90 MHz	BPSK	87.032
	QPSK	87.126
	16-QAM	86.966
	64-QAM	86.970
	256-QAM	87.046
100 MHz	BPSK	96.588
	QPSK	96.737
	16-QAM	96.545
	64-QAM	96.747
	256-QAM	96.798

Note:

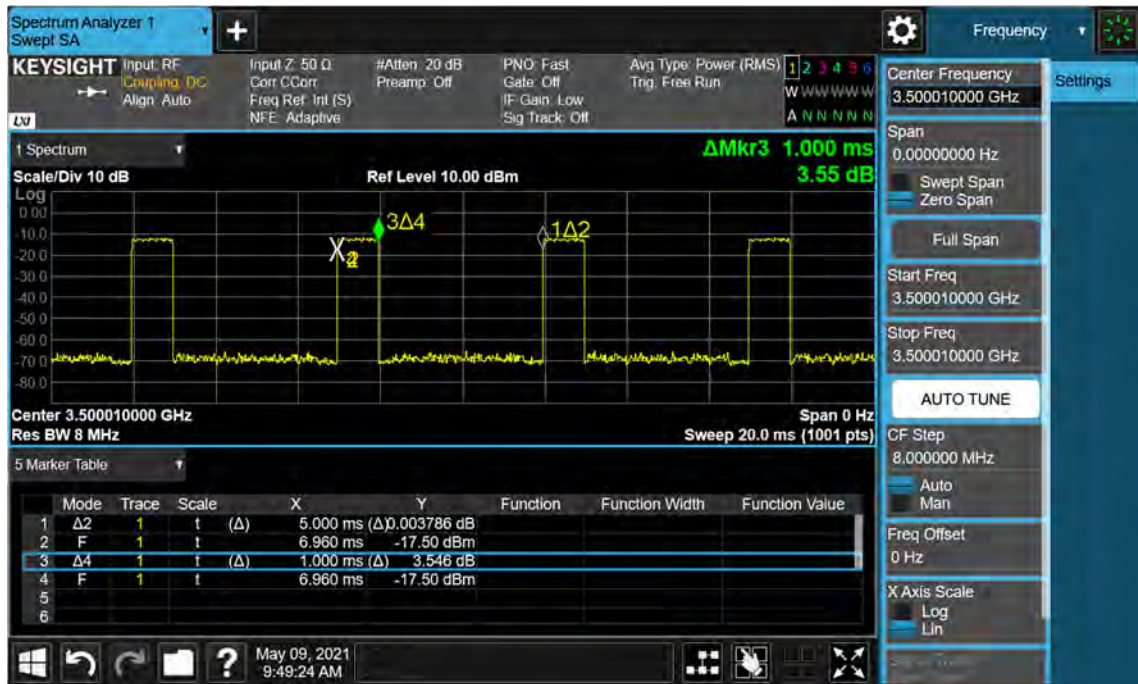
1. Plots of the EUT's Occupied Bandwidth are shown Page 151 ~ 210.

8.5 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
Sub6 n77	10	3455.01	8.8156	37.805	-70.073	-32.268	-13.00
		3500.01	7.9731	37.805	-70.268	-32.463	
		3544.98	8.2612	37.805	-70.412	-32.607	
	15	3457.50	9.7084	37.805	-70.809	-33.004	
		3500.01	8.3305	37.805	-70.346	-32.541	
		3542.49	4.9671	37.190	-70.271	-33.081	
	20	3460.02	9.6914	37.805	-70.385	-32.580	
		3500.01	9.7004	37.805	-70.423	-32.618	
		3540.00	8.3171	37.805	-70.856	-33.051	
	25	3462.51	7.9821	37.805	-70.498	-32.693	
		3500.01	8.2637	37.805	-70.271	-32.466	
		3537.48	9.6730	37.805	-70.556	-32.751	
	30	3465.00	8.3898	37.805	-70.931	-33.126	
		3500.01	9.1326	37.805	-70.561	-32.756	
		3534.99	7.1536	37.805	-70.637	-32.832	
	40	3470.01	9.3505	37.805	-70.645	-32.840	
		3500.01	8.2508	37.805	-70.625	-32.820	
		3529.98	9.3933	37.805	-70.546	-32.741	
	50	3475.02	8.5813	37.805	-69.915	-32.110	
		3500.01	7.6780	37.805	-70.728	-32.923	
		3525.00	4.9452	37.190	-70.098	-32.908	
	60	3480.00	8.3390	37.805	-70.323	-32.518	
		3500.01	9.6775	37.805	-69.858	-32.053	
		3519.99	9.1236	37.805	-70.635	-32.830	
	70	3485.01	9.6780	37.805	-70.087	-32.282	
		3500.01	8.0244	37.805	-70.936	-33.131	
		3514.98	8.6027	37.805	-70.385	-32.580	
	80	3490.02	9.1172	37.805	-70.021	-32.216	
		3500.01	8.3106	37.805	-70.575	-32.770	
		3510.00	5.2039	37.805	-70.237	-32.432	
90	3495.00	9.9516	37.805	-70.235	-32.430		
	3500.01	9.7258	37.805	-70.169	-32.364		
	3504.99	9.7203	37.805	-70.465	-32.660		
100	3500.01	8.8629	37.805	-69.970	-32.165		

Note:

1. Plots of the EUT’s Conducted Spurious Emissions are shown Page 211 ~ 278.
2. Duty Cycle factor already applied on the factor.
 - Duty Cycle Factor(dB) = 6.990



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

3. Factor(dB)

Frequency Range (GHz)	Factor [dB]
0.03 – 1	34.484
1 – 5	37.190
5 – 10	37.805
10 – 15	38.330
15 – 20	38.703
Above 20	39.345

8.6 BAND EDGE

1. Plots of the EUT’s Band Edge are shown Page 279 ~ 422.
2. Duty Cycle factor already applied on the factor.
 - Factor(dB) = Duty Cycle factor + Cable Loss + Ext. Attenuator + Power Splitter
 - Result(dBm) = Reading + Factor
 - Duty Cycle Factor(dB) = 6.990

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ▣ BandWidth: 10 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency (MHz)	Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
3455.010	100 %	+20(Ref)	3455 009 991	0.0	0.000 000	0.000
	100 %	-30	3455 009 981	-9.5	0.000 000	-0.003
	100 %	-20	3455 009 981	-9.6	0.000 000	-0.003
	100 %	-10	3455 009 983	-7.6	0.000 000	-0.002
	100 %	0	3455 009 985	-5.5	0.000 000	-0.002
	100 %	+10	3455 009 983	-7.6	0.000 000	-0.002
	100 %	+30	3455 009 983	-8.2	0.000 000	-0.002
	100 %	+40	3455 009 984	-7.1	0.000 000	-0.002
	100 %	+50	3455 009 986	-4.7	0.000 000	-0.001
	Batt. Endpoint	+20	3455 009 985	-6.0	0.000 000	-0.002
3544.980	100 %	+20(Ref)	3544 979 993	0.0	0.000 000	0.000
	100 %	-30	3544 979 986	-7.0	0.000 000	-0.002
	100 %	-20	3544 979 987	-6.3	0.000 000	-0.002
	100 %	-10	3544 979 985	-7.7	0.000 000	-0.002
	100 %	0	3544 979 985	-8.1	0.000 000	-0.002
	100 %	+10	3544 979 986	-7.2	0.000 000	-0.002
	100 %	+30	3544 979 988	-4.9	0.000 000	-0.001
	100 %	+40	3544 979 988	-5.0	0.000 000	-0.001
	100 %	+50	3544 979 986	-6.8	0.000 000	-0.002
	Batt. Endpoint	+20	3544 979 988	-4.8	0.000 000	-0.001

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3457.500	100 %	+20(Ref)	3457 499 998	0.0	0.000 000	0.000
	100 %	-30	3457 499 994	-4.3	0.000 000	-0.001
	100 %	-20	3457 499 994	-4.3	0.000 000	-0.001
	100 %	-10	3457 499 996	-2.0	0.000 000	-0.001
	100 %	0	3457 499 999	0.5	0.000 000	0.000
	100 %	+10	3457 499 993	-5.5	0.000 000	-0.002
	100 %	+30	3457 499 994	-4.1	0.000 000	-0.001
	100 %	+40	3457 499 993	-5.2	0.000 000	-0.002
	100 %	+50	3457 499 999	0.5	0.000 000	0.000
	Batt. Endpoint	+20	3457 499 995	-3.0	0.000 000	-0.001
3542.490	100 %	+20(Ref)	3542 489 994	0.0	0.000 000	0.000
	100 %	-30	3542 489 991	-4.0	0.000 000	-0.001
	100 %	-20	3542 489 989	-5.4	0.000 000	-0.002
	100 %	-10	3542 489 986	-8.3	0.000 000	-0.002
	100 %	0	3542 489 990	-4.4	0.000 000	-0.001
	100 %	+10	3542 489 989	-5.0	0.000 000	-0.001
	100 %	+30	3542 489 990	-4.3	0.000 000	-0.001
	100 %	+40	3542 489 990	-4.5	0.000 000	-0.001
	100 %	+50	3542 489 986	-8.2	0.000 000	-0.002
	Batt. Endpoint	+20	3542 489 993	-1.7	0.000 000	0.000

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3460.020	100 %	+20(Ref)	3460 019 998	0.0	0.000 000	0.000
	100 %	-30	3460 019 997	-1.1	0.000 000	0.000
	100 %	-20	3460 019 994	-3.7	0.000 000	-0.001
	100 %	-10	3460 019 996	-1.3	0.000 000	0.000
	100 %	0	3460 019 996	-1.8	0.000 000	-0.001
	100 %	+10	3460 019 996	-2.1	0.000 000	-0.001
	100 %	+30	3460 019 995	-2.9	0.000 000	-0.001
	100 %	+40	3460 019 993	-4.2	0.000 000	-0.001
	100 %	+50	3460 019 994	-3.8	0.000 000	-0.001
	Batt. Endpoint	+20	3460 019 994	-4.1	0.000 000	-0.001
3540.000	100 %	+20(Ref)	3539 999 995	0.0	0.000 000	0.000
	100 %	-30	3539 999 993	-2.1	0.000 000	-0.001
	100 %	-20	3539 999 987	-8.0	0.000 000	-0.002
	100 %	-10	3539 999 992	-3.1	0.000 000	-0.001
	100 %	0	3539 999 990	-4.8	0.000 000	-0.001
	100 %	+10	3539 999 992	-3.1	0.000 000	-0.001
	100 %	+30	3539 999 988	-6.9	0.000 000	-0.002
	100 %	+40	3539 999 989	-6.2	0.000 000	-0.002
	100 %	+50	3539 999 991	-4.1	0.000 000	-0.001
	Batt. Endpoint	+20	3539 999 991	-4.3	0.000 000	-0.001

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3462.510	100 %	+20(Ref)	3462 509 996	0.0	0.000 000	0.000
	100 %	-30	3462 509 993	-3.3	0.000 000	-0.001
	100 %	-20	3462 509 993	-3.0	0.000 000	-0.001
	100 %	-10	3462 509 994	-2.6	0.000 000	-0.001
	100 %	0	3462 509 991	-5.5	0.000 000	-0.002
	100 %	+10	3462 509 994	-2.2	0.000 000	-0.001
	100 %	+30	3462 509 994	-2.7	0.000 000	-0.001
	100 %	+40	3462 509 994	-2.2	0.000 000	-0.001
	100 %	+50	3462 509 989	-7.0	0.000 000	-0.002
	Batt. Endpoint	+20	3462 509 996	0.2	0.000 000	0.000
3537.480	100 %	+20(Ref)	3537 479 998	0.0	0.000 000	0.000
	100 %	-30	3537 479 990	-7.6	0.000 000	-0.002
	100 %	-20	3537 479 996	-2.1	0.000 000	-0.001
	100 %	-10	3537 479 994	-3.9	0.000 000	-0.001
	100 %	0	3537 479 995	-3.4	0.000 000	-0.001
	100 %	+10	3537 479 991	-7.3	0.000 000	-0.002
	100 %	+30	3537 479 993	-5.2	0.000 000	-0.001
	100 %	+40	3537 479 993	-5.1	0.000 000	-0.001
	100 %	+50	3537 479 995	-2.7	0.000 000	-0.001
	Batt. Endpoint	+20	3537 479 994	-4.5	0.000 000	-0.001

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3465.000	100 %	+20(Ref)	3464 999 994	0.0	0.000 000	0.000
	100 %	-30	3464 999 989	-5.6	0.000 000	-0.002
	100 %	-20	3464 999 988	-5.9	0.000 000	-0.002
	100 %	-10	3464 999 989	-5.1	0.000 000	-0.001
	100 %	0	3464 999 992	-2.6	0.000 000	-0.001
	100 %	+10	3464 999 992	-1.8	0.000 000	-0.001
	100 %	+30	3464 999 991	-3.6	0.000 000	-0.001
	100 %	+40	3464 999 994	-0.4	0.000 000	0.000
	100 %	+50	3464 999 993	-1.5	0.000 000	0.000
	Batt. Endpoint	+20	3464 999 990	-4.3	0.000 000	-0.001
3534.990	100 %	+20(Ref)	3534 989 996	0.0	0.000 000	0.000
	100 %	-30	3534 989 990	-5.6	0.000 000	-0.002
	100 %	-20	3534 989 991	-4.8	0.000 000	-0.001
	100 %	-10	3534 989 992	-4.4	0.000 000	-0.001
	100 %	0	3534 989 986	-10.3	0.000 000	-0.003
	100 %	+10	3534 989 987	-9.4	0.000 000	-0.003
	100 %	+30	3534 989 987	-9.2	0.000 000	-0.003
	100 %	+40	3534 989 988	-8.2	0.000 000	-0.002
	100 %	+50	3534 989 989	-7.3	0.000 000	-0.002
	Batt. Endpoint	+20	3534 989 990	-6.2	0.000 000	-0.002

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3470.010	100 %	+20(Ref)	3470 010 000	0.0	0.000 000	0.000
	100 %	-30	3470 009 999	-1.2	0.000 000	0.000
	100 %	-20	3470 009 994	-5.8	0.000 000	-0.002
	100 %	-10	3470 009 997	-2.6	0.000 000	-0.001
	100 %	0	3470 010 000	-0.2	0.000 000	0.000
	100 %	+10	3470 009 994	-6.1	0.000 000	-0.002
	100 %	+30	3470 009 999	-0.9	0.000 000	0.000
	100 %	+40	3470 010 000	0.5	0.000 000	0.000
	100 %	+50	3470 010 000	-0.1	0.000 000	0.000
	Batt. Endpoint	+20	3470 009 997	-3.0	0.000 000	-0.001
3529.980	100 %	+20(Ref)	3529 979 995	0.0	0.000 000	0.000
	100 %	-30	3529 979 989	-6.0	0.000 000	-0.002
	100 %	-20	3529 979 991	-4.1	0.000 000	-0.001
	100 %	-10	3529 979 990	-5.2	0.000 000	-0.001
	100 %	0	3529 979 996	1.0	0.000 000	0.000
	100 %	+10	3529 979 995	0.2	0.000 000	0.000
	100 %	+30	3529 979 994	-0.9	0.000 000	0.000
	100 %	+40	3529 979 990	-4.3	0.000 000	-0.001
	100 %	+50	3529 979 991	-4.2	0.000 000	-0.001
	Batt. Endpoint	+20	3529 979 988	-7.2	0.000 000	-0.002

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3475.020	100 %	+20(Ref)	3475 020 000	0.0	0.000 000	0.000
	100 %	-30	3475 019 996	-4.0	0.000 000	-0.001
	100 %	-20	3475 020 004	3.8	0.000 000	0.001
	100 %	-10	3475 020 001	0.6	0.000 000	0.000
	100 %	0	3475 019 996	-3.7	0.000 000	-0.001
	100 %	+10	3475 019 997	-2.5	0.000 000	-0.001
	100 %	+30	3475 019 998	-1.9	0.000 000	-0.001
	100 %	+40	3475 019 998	-1.9	0.000 000	-0.001
	100 %	+50	3475 019 995	-4.5	0.000 000	-0.001
	Batt. Endpoint	+20	3475 020 000	0.2	0.000 000	0.000
3525.000	100 %	+20(Ref)	3524 999 998	0.0	0.000 000	0.000
	100 %	-30	3524 999 995	-2.6	0.000 000	-0.001
	100 %	-20	3524 999 997	-1.4	0.000 000	0.000
	100 %	-10	3524 999 989	-8.9	0.000 000	-0.003
	100 %	0	3524 999 995	-2.4	0.000 000	-0.001
	100 %	+10	3524 999 997	-0.7	0.000 000	0.000
	100 %	+30	3524 999 997	-0.5	0.000 000	0.000
	100 %	+40	3524 999 998	0.3	0.000 000	0.000
	100 %	+50	3524 999 994	-4.2	0.000 000	-0.001
	Batt. Endpoint	+20	3524 999 994	-3.5	0.000 000	-0.001

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3480.000	100 %	+20(Ref)	3479 999 994	0.0	0.000 000	0.000
	100 %	-30	3479 999 989	-4.5	0.000 000	-0.001
	100 %	-20	3479 999 993	-0.8	0.000 000	0.000
	100 %	-10	3479 999 989	-4.3	0.000 000	-0.001
	100 %	0	3479 999 992	-2.0	0.000 000	-0.001
	100 %	+10	3479 999 991	-2.9	0.000 000	-0.001
	100 %	+30	3479 999 991	-3.1	0.000 000	-0.001
	100 %	+40	3479 999 991	-2.7	0.000 000	-0.001
	100 %	+50	3479 999 990	-3.8	0.000 000	-0.001
	Batt. Endpoint	+20	3479 999 992	-2.0	0.000 000	-0.001
3519.990	100 %	+20(Ref)	3519 989 998	0.0	0.000 000	0.000
	100 %	-30	3519 989 997	-1.0	0.000 000	0.000
	100 %	-20	3519 989 992	-5.4	0.000 000	-0.002
	100 %	-10	3519 989 993	-5.0	0.000 000	-0.001
	100 %	0	3519 989 995	-3.1	0.000 000	-0.001
	100 %	+10	3519 989 999	1.0	0.000 000	0.000
	100 %	+30	3519 989 995	-2.9	0.000 000	-0.001
	100 %	+40	3519 989 996	-2.2	0.000 000	-0.001
	100 %	+50	3519 989 998	0.5	0.000 000	0.000
	Batt. Endpoint	+20	3519 989 994	-3.9	0.000 000	-0.001

- ▣ BandWidth: 70 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3485.010	100 %	+20(Ref)	3485 009 999	0.0	0.000 000	0.000
	100 %	-30	3485 009 996	-2.4	0.000 000	-0.001
	100 %	-20	3485 009 994	-4.0	0.000 000	-0.001
	100 %	-10	3485 009 997	-1.9	0.000 000	-0.001
	100 %	0	3485 009 999	0.1	0.000 000	0.000
	100 %	+10	3485 009 999	0.0	0.000 000	0.000
	100 %	+30	3485 009 992	-6.9	0.000 000	-0.002
	100 %	+40	3485 009 990	-8.3	0.000 000	-0.002
	100 %	+50	3485 009 996	-2.4	0.000 000	-0.001
	Batt. Endpoint	+20	3485 009 994	-4.4	0.000 000	-0.001
3514.980	100 %	+20(Ref)	3514 979 995	0.0	0.000 000	0.000
	100 %	-30	3514 979 989	-6.5	0.000 000	-0.002
	100 %	-20	3514 979 990	-5.1	0.000 000	-0.001
	100 %	-10	3514 979 987	-8.4	0.000 000	-0.002
	100 %	0	3514 979 987	-8.2	0.000 000	-0.002
	100 %	+10	3514 979 990	-4.7	0.000 000	-0.001
	100 %	+30	3514 979 991	-4.3	0.000 000	-0.001
	100 %	+40	3514 979 989	-5.9	0.000 000	-0.002
	100 %	+50	3514 979 988	-7.1	0.000 000	-0.002
	Batt. Endpoint	+20	3514 979 991	-4.2	0.000 000	-0.001

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3490.020	100 %	+20(Ref)	3490 019 998	0.0	0.000 000	0.000
	100 %	-30	3490 019 995	-3.2	0.000 000	-0.001
	100 %	-20	3490 019 999	0.9	0.000 000	0.000
	100 %	-10	3490 019 995	-3.6	0.000 000	-0.001
	100 %	0	3490 019 998	0.2	0.000 000	0.000
	100 %	+10	3490 020 000	1.7	0.000 000	0.000
	100 %	+30	3490 019 996	-2.6	0.000 000	-0.001
	100 %	+40	3490 019 999	0.6	0.000 000	0.000
	100 %	+50	3490 019 995	-3.6	0.000 000	-0.001
	Batt. Endpoint	+20	3490 020 001	2.4	0.000 000	0.001
3510.000	100 %	+20(Ref)	3509 999 995	0.0	0.000 000	0.000
	100 %	-30	3509 999 990	-5.2	0.000 000	-0.001
	100 %	-20	3509 999 992	-3.5	0.000 000	-0.001
	100 %	-10	3509 999 988	-7.5	0.000 000	-0.002
	100 %	0	3509 999 994	-1.4	0.000 000	0.000
	100 %	+10	3509 999 990	-5.7	0.000 000	-0.002
	100 %	+30	3509 999 992	-3.9	0.000 000	-0.001
	100 %	+40	3509 999 995	-0.7	0.000 000	0.000
	100 %	+50	3509 999 988	-7.5	0.000 000	-0.002
	Batt. Endpoint	+20	3509 999 991	-4.6	0.000 000	-0.001

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3495.000	100 %	+20(Ref)	3495 000 001	0.0	0.000 000	0.000
	100 %	-30	3495 000 003	1.7	0.000 000	0.000
	100 %	-20	3495 000 002	1.3	0.000 000	0.000
	100 %	-10	3495 000 001	-0.4	0.000 000	0.000
	100 %	0	3495 000 002	0.9	0.000 000	0.000
	100 %	+10	3495 000 000	-1.5	0.000 000	0.000
	100 %	+30	3495 000 000	-1.5	0.000 000	0.000
	100 %	+40	3495 000 001	-0.1	0.000 000	0.000
	100 %	+50	3495 000 006	4.9	0.000 000	0.001
	Batt. Endpoint	+20	3495 000 001	-0.4	0.000 000	0.000
3504.990	100 %	+20(Ref)	3504 989 995	0.0	0.000 000	0.000
	100 %	-30	3504 989 989	-6.0	0.000 000	-0.002
	100 %	-20	3504 989 989	-6.0	0.000 000	-0.002
	100 %	-10	3504 989 992	-3.4	0.000 000	-0.001
	100 %	0	3504 989 987	-8.0	0.000 000	-0.002
	100 %	+10	3504 989 993	-2.1	0.000 000	-0.001
	100 %	+30	3504 989 992	-3.0	0.000 000	-0.001
	100 %	+40	3504 989 988	-7.7	0.000 000	-0.002
	100 %	+50	3504 989 989	-6.5	0.000 000	-0.002
	Batt. Endpoint	+20	3504 989 991	-3.8	0.000 000	-0.001

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3500.010	100 %	+20(Ref)	3500 009 996	0.0	0.000 000	0.000
	100 %	-30	3500 009 987	-8.9	0.000 000	-0.003
	100 %	-20	3500 009 992	-4.9	0.000 000	-0.001
	100 %	-10	3500 009 993	-3.9	0.000 000	-0.001
	100 %	0	3500 009 994	-2.9	0.000 000	-0.001
	100 %	+10	3500 009 994	-2.1	0.000 000	-0.001
	100 %	+30	3500 009 994	-2.4	0.000 000	-0.001
	100 %	+40	3500 009 994	-2.3	0.000 000	-0.001
	100 %	+50	3500 009 995	-1.8	0.000 000	-0.001
	Batt. Endpoint	+20	3500 009 994	-2.2	0.000 000	-0.001

9. TEST DATA (3700 MHz - 3980 MHz)

9.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
									W	W dBm	Size	Offset
3705.00	Sub6 n77/ 10 MHz [30 kHz]	PI/2 BPSK	-24.68	13.81	11.40	3.09	H	< 1.00	0.163	22.12	1	22
		QPSK	-24.75	13.74	11.40	3.09	H		0.160	22.05		
		16-QAM	-25.96	12.53	11.40	3.09	H		0.121	20.84		
		64-QAM	-27.46	11.03	11.40	3.09	H		0.086	19.34		
		256-QAM	-29.51	8.98	11.40	3.09	H		0.054	17.29		
3840.00		PI/2 BPSK	-25.29	14.39	11.10	3.14	H		0.172	22.35	1	1
		QPSK	-25.30	14.38	11.10	3.14	H		0.171	22.34		
		16-QAM	-26.46	13.22	11.10	3.14	H		0.131	21.18		
		64-QAM	-27.80	11.88	11.10	3.14	H		0.096	19.84		
		256-QAM	-30.02	9.66	11.10	3.14	H		0.058	17.62		
3975.00	PI/2 BPSK	-27.81	11.84	10.90	3.20	H	0.090	19.54	1	22		
	QPSK	-27.83	11.82	10.90	3.20	H	0.090	19.52				
	16-QAM	-28.98	10.67	10.90	3.20	H	0.069	18.37				
	64-QAM	-30.43	9.22	10.90	3.20	H	0.049	16.92				
	256-QAM	-32.81	6.84	10.90	3.20	H	0.028	14.54				

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	-24.53	13.96	11.40	3.09	H	< 1.00	0.169	22.27	1	19
		QPSK	-24.56	13.93	11.40	3.09	H		0.167	22.24		
		16-QAM	-25.45	13.04	11.40	3.09	H		0.136	21.35		
		64-QAM	-27.18	11.31	11.40	3.09	H		0.092	19.62		
		256-QAM	-29.29	9.20	11.40	3.09	H		0.056	17.51		
3840.00	Sub6 n77/ 15 MHz [30 kHz]	PI/2 BPSK	-25.19	14.49	11.10	3.14	H	< 1.00	0.176	22.45	1	1
		QPSK	-25.26	14.42	11.10	3.14	H		0.173	22.38		
		16-QAM	-26.45	13.23	11.10	3.14	H		0.132	21.19		
		64-QAM	-27.81	11.87	11.10	3.14	H		0.096	19.83		
		256-QAM	-30.01	9.67	11.10	3.14	H		0.058	17.63		
3972.48		PI/2 BPSK	-27.46	12.19	10.90	3.20	H	< 1.00	0.097	19.89	1	36
		QPSK	-27.50	12.15	10.90	3.20	H		0.097	19.85		
		16-QAM	-28.81	10.84	10.90	3.20	H		0.071	18.54		
		64-QAM	-30.13	9.52	10.90	3.20	H		0.053	17.22		
		256-QAM	-32.25	7.40	10.90	3.20	H		0.032	15.10		

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
3710.01		PI/2 BPSK	-24.33	14.19	11.40	3.11	H	< 1.00	0.177	22.48	1	25
		QPSK	-24.36	14.16	11.40	3.11	H		0.176	22.45		
		16-QAM	-25.44	13.08	11.40	3.11	H		0.137	21.37		
		64-QAM	-26.97	11.55	11.40	3.11	H		0.096	19.84		
		256-QAM	-29.11	9.41	11.40	3.11	H		0.059	17.70		
3840.00	Sub6 n77/ 20 MHz [30 kHz]	PI/2 BPSK	-25.16	14.52	11.10	3.14	H	< 1.00	0.177	22.48	1	1
		QPSK	-25.30	14.38	11.10	3.14	H		0.171	22.34		
		16-QAM	-26.30	13.38	11.10	3.14	H		0.136	21.34		
		64-QAM	-27.77	11.91	11.10	3.14	H		0.097	19.87		
		256-QAM	-30.06	9.62	11.10	3.14	H		0.057	17.58		
3969.99		PI/2 BPSK	-27.51	12.11	10.90	3.20	H	< 1.00	0.096	19.81	1	49
		QPSK	-27.56	12.06	10.90	3.20	H		0.095	19.76		
		16-QAM	-28.78	10.84	10.90	3.20	H		0.071	18.54		
		64-QAM	-30.00	9.62	10.90	3.20	H		0.054	17.32		
		256-QAM	-32.29	7.33	10.90	3.20	H		0.032	15.03		

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
3712.50		PI/2 BPSK	-23.97	14.70	11.40	3.12	H	< 1.00	0.199	22.98	1	32
		QPSK	-24.04	14.63	11.40	3.12	H		0.195	22.91		
		16-QAM	-25.27	13.40	11.40	3.12	H		0.147	21.68		
		64-QAM	-26.61	12.06	11.40	3.12	H		0.108	20.34		
		256-QAM	-28.81	9.86	11.40	3.12	H		0.065	18.14		
3840.00	Sub6 n77/ 25 MHz [30 kHz]	PI/2 BPSK	-24.84	14.84	11.10	3.14	H	< 1.00	0.191	22.80	1	1
		QPSK	-25.00	14.68	11.10	3.14	H		0.184	22.64		
		16-QAM	-25.98	13.70	11.10	3.14	H		0.147	21.66		
		64-QAM	-27.42	12.26	11.10	3.14	H		0.105	20.22		
		256-QAM	-29.64	10.04	11.10	3.14	H		0.063	18.00		
3967.50		PI/2 BPSK	-27.49	12.20	10.90	3.21	H	< 1.00	0.097	19.89	1	63
		QPSK	-27.51	12.18	10.90	3.21	H		0.097	19.87		
		16-QAM	-28.37	11.32	10.90	3.21	H		0.080	19.01		
		64-QAM	-29.85	9.84	10.90	3.21	H		0.057	17.53		
		256-QAM	-32.23	7.46	10.90	3.21	H		0.033	15.15		

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
3715.02		PI/2 BPSK	-23.94	14.73	11.40	3.12	H	< 1.00	0.200	23.01	1	39
		QPSK	-23.99	14.68	11.40	3.12	H		0.198	22.96		
		16-QAM	-25.09	13.58	11.40	3.12	H		0.153	21.86		
		64-QAM	-26.54	12.13	11.40	3.12	H		0.110	20.41		
		256-QAM	-28.78	9.89	11.40	3.12	H		0.066	18.17		
3840.00	Sub6 n77/ 30 MHz [30 kHz]	PI/2 BPSK	-25.03	14.65	11.10	3.14	H	< 1.00	0.182	22.61	1	1
		QPSK	-25.12	14.56	11.10	3.14	H		0.179	22.52		
		16-QAM	-26.16	13.52	11.10	3.14	H		0.141	21.48		
		64-QAM	-27.51	12.17	11.10	3.14	H		0.103	20.13		
		256-QAM	-29.60	10.08	11.10	3.14	H		0.064	18.04		
3964.98		PI/2 BPSK	-27.29	12.40	10.90	3.21	H	< 1.00	0.102	20.09	1	76
		QPSK	-27.39	12.30	10.90	3.21	H		0.100	19.99		
		16-QAM	-28.63	11.06	10.90	3.21	H		0.075	18.75		
		64-QAM	-30.03	9.66	10.90	3.21	H		0.054	17.35		
		256-QAM	-32.31	7.38	10.90	3.21	H		0.032	15.07		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
									W	W	dBm	Size
3720.00		PI/2 BPSK	-23.81	14.88	11.40	3.14	H	< 1.00	0.206	23.14	1	53
		QPSK	-23.91	14.78	11.40	3.14	H		0.201	23.04		
		16-QAM	-25.00	13.69	11.40	3.14	H		0.157	21.95		
		64-QAM	-26.31	12.38	11.40	3.14	H		0.116	20.64		
		256-QAM	-28.59	10.10	11.40	3.14	H		0.069	18.36		
3840.00	Sub6 n77/ 40 MHz [30 kHz]	PI/2 BPSK	-24.97	14.71	11.10	3.14	H	< 1.00	0.185	22.67	1	1
		QPSK	-25.04	14.64	11.10	3.14	H		0.182	22.60		
		16-QAM	-26.04	13.64	11.10	3.14	H		0.145	21.60		
		64-QAM	-27.51	12.17	11.10	3.14	H		0.103	20.13		
		256-QAM	-29.73	9.95	11.10	3.14	H		0.062	17.91		
3960.00		PI/2 BPSK	-27.53	12.25	10.90	3.21	H	< 1.00	0.099	19.94	1	104
		QPSK	-27.58	12.20	10.90	3.21	H		0.097	19.89		
		16-QAM	-28.61	11.17	10.90	3.21	H		0.077	18.86		
		64-QAM	-30.26	9.52	10.90	3.21	H		0.053	17.21		
		256-QAM	-32.33	7.45	10.90	3.21	H		0.033	15.14		

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
3725.10		PI/2 BPSK	-23.63	15.21	11.40	3.14	H	< 1.00	0.222	23.47	1	66
		QPSK	-23.78	15.06	11.40	3.14	H		0.215	23.32		
		16-QAM	-24.73	14.11	11.40	3.14	H		0.173	22.37		
		64-QAM	-26.19	12.65	11.40	3.14	H		0.123	20.91		
		256-QAM	-28.47	10.37	11.40	3.14	H		0.073	18.63		
3840.00	Sub6 n77/ 50 MHz [30 kHz]	PI/2 BPSK	-24.71	14.97	11.10	3.14	H	< 1.00	0.196	22.93	1	1
		QPSK	-24.76	14.92	11.10	3.14	H		0.194	22.88		
		16-QAM	-25.88	13.80	11.10	3.14	H		0.150	21.76		
		64-QAM	-27.14	12.54	11.10	3.14	H		0.112	20.50		
		256-QAM	-29.47	10.21	11.10	3.14	H		0.066	18.17		
3954.99		PI/2 BPSK	-27.32	12.47	10.90	3.21	H	< 1.00	0.104	20.16	1	131
		QPSK	-27.37	12.42	10.90	3.21	H		0.103	20.11		
		16-QAM	-28.63	11.16	10.90	3.21	H		0.077	18.85		
		64-QAM	-29.85	9.94	10.90	3.21	H		0.058	17.63		
		256-QAM	-32.13	7.66	10.90	3.21	H		0.034	15.35		

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
3730.02		PI/2 BPSK	-23.62	15.24	11.40	3.14	H	< 1.00	0.224	23.50	1	81
		QPSK	-23.76	15.10	11.40	3.14	H		0.217	23.36		
		16-QAM	-24.76	14.10	11.40	3.14	H		0.172	22.36		
		64-QAM	-26.19	12.67	11.40	3.14	H		0.124	20.93		
		256-QAM	-28.49	10.37	11.40	3.14	H		0.073	18.63		
3840.00	Sub6 n77/ 60 MHz [30 kHz]	PI/2 BPSK	-24.69	14.99	11.10	3.14	H	< 1.00	0.197	22.95	1	1
		QPSK	-24.76	14.92	11.10	3.14	H		0.194	22.88		
		16-QAM	-25.71	13.97	11.10	3.14	H		0.156	21.93		
		64-QAM	-27.36	12.32	11.10	3.14	H		0.107	20.28		
		256-QAM	-29.71	9.97	11.10	3.14	H		0.062	17.93		
3949.98		PI/2 BPSK	-26.92	12.86	10.90	3.20	H	< 1.00	0.114	20.56	1	160
		QPSK	-27.16	12.62	10.90	3.20	H		0.108	20.32		
		16-QAM	-27.73	12.05	10.90	3.20	H		0.094	19.75		
		64-QAM	-29.29	10.49	10.90	3.20	H		0.066	18.19		
		256-QAM	-31.63	8.15	10.90	3.20	H		0.038	15.85		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3735.00		PI/2 BPSK	-23.54	15.32	11.40	3.12	H		0.229	23.60	1	94
		QPSK	-23.72	15.14	11.40	3.12	H		0.220	23.42		
		16-QAM	-24.49	14.37	11.40	3.12	H		0.184	22.65		
		64-QAM	-26.00	12.86	11.40	3.12	H		0.130	21.14		
		256-QAM	-28.20	10.66	11.40	3.12	H		0.078	18.94		
3840.00	Sub6 n77/ 70 MHz [30 kHz]	PI/2 BPSK	-24.56	15.12	11.10	3.14	H	< 1.00	0.203	23.08	1	1
		QPSK	-24.61	15.07	11.10	3.14	H		0.201	23.03		
		16-QAM	-25.58	14.10	11.10	3.14	H		0.161	22.06		
		64-QAM	-27.03	12.65	11.10	3.14	H		0.115	20.61		
		256-QAM	-29.25	10.43	11.10	3.14	H		0.069	18.39		
3945.00		PI/2 BPSK	-26.73	13.11	10.85	3.18	H		0.120	20.78	1	187
		QPSK	-26.77	13.07	10.85	3.18	H		0.119	20.74		
		16-QAM	-27.72	12.12	10.85	3.18	H		0.095	19.79		
		64-QAM	-29.13	10.71	10.85	3.18	H		0.069	18.38		
		256-QAM	-31.51	8.33	10.85	3.18	H		0.040	16.00		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
									W	W	dBm	Size
3740.01		PI/2 BPSK	-23.40	15.46	11.40	3.10	H	< 1.00	0.238	23.76	1	108
		QPSK	-23.44	15.42	11.40	3.10	H		0.236	23.72		
		16-QAM	-24.40	14.46	11.40	3.10	H		0.189	22.76		
		64-QAM	-25.88	12.98	11.40	3.10	H		0.134	21.28		
		256-QAM	-28.27	10.59	11.40	3.10	H		0.077	18.89		
3840.00	Sub6 n77/ 80 MHz [30 kHz]	PI/2 BPSK	-24.39	15.29	11.10	3.14	H	< 1.00	0.211	23.25	1	1
		QPSK	-24.44	15.24	11.10	3.14	H		0.209	23.20		
		16-QAM	-25.33	14.35	11.10	3.14	H		0.170	22.31		
		64-QAM	-26.81	12.87	11.10	3.14	H		0.121	20.83		
		256-QAM	-29.21	10.47	11.10	3.14	H		0.070	18.43		
3939.99		PI/2 BPSK	-26.50	12.73	11.40	3.10	H	< 1.00	0.127	21.03	1	215
		QPSK	-26.77	12.46	11.40	3.10	H		0.119	20.76		
		16-QAM	-27.66	11.57	11.40	3.10	H		0.097	19.87		
		64-QAM	-29.24	9.99	11.40	3.10	H		0.067	18.29		
		256-QAM	-31.56	7.67	11.40	3.10	H		0.040	15.97		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
									W	W	dBm	Size
3745.02		PI/2 BPSK	-23.23	15.51	11.35	3.09	H	< 1.00	0.238	23.77	1	122
		QPSK	-23.41	15.33	11.35	3.09	H		0.229	23.59		
		16-QAM	-24.61	14.13	11.35	3.09	H		0.173	22.39		
		64-QAM	-25.93	12.81	11.35	3.09	H		0.128	21.07		
		256-QAM	-28.07	10.67	11.35	3.09	H		0.078	18.93		
3840.00	Sub6 n77/ 90 MHz [30 kHz]	PI/2 BPSK	-24.30	15.38	11.10	3.14	H	< 1.00	0.216	23.34	1	1
		QPSK	-24.34	15.34	11.10	3.14	H		0.214	23.30		
		16-QAM	-25.41	14.27	11.10	3.14	H		0.167	22.23		
		64-QAM	-26.70	12.98	11.10	3.14	H		0.124	20.94		
		256-QAM	-29.01	10.67	11.10	3.14	H		0.073	18.63		
3934.98		PI/2 BPSK	-26.61	13.31	10.80	3.16	H	< 1.00	0.124	20.95	1	243
		QPSK	-26.71	13.21	10.80	3.16	H		0.122	20.85		
		16-QAM	-27.74	12.18	10.80	3.16	H		0.096	19.82		
		64-QAM	-29.26	10.66	10.80	3.16	H		0.068	18.30		
		256-QAM	-31.57	8.35	10.80	3.16	H		0.040	15.99		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
									W	W	dBm	Size
3750.00		PI/2 BPSK	-23.59	15.04	11.30	3.08	H	< 1.00	0.212	23.26	1	136
		QPSK	-23.63	15.00	11.30	3.08	H		0.210	23.22		
		16-QAM	-24.57	14.06	11.30	3.08	H		0.169	22.28		
		64-QAM	-25.90	12.73	11.30	3.08	H		0.124	20.95		
		256-QAM	-28.19	10.44	11.30	3.08	H		0.073	18.66		
3840.00	Sub6 n77/ 100 MHz [30 kHz]	PI/2 BPSK	-24.71	14.97	11.10	3.14	H	< 1.00	0.196	22.93	1	1
		QPSK	-24.73	14.95	11.10	3.14	H		0.195	22.91		
		16-QAM	-25.86	13.82	11.10	3.14	H		0.151	21.78		
		64-QAM	-27.13	12.55	11.10	3.14	H		0.112	20.51		
		256-QAM	-29.41	10.27	11.10	3.14	H		0.067	18.23		
3930.00		PI/2 BPSK	-27.02	12.93	10.80	3.16	H	< 1.00	0.114	20.57	1	271
		QPSK	-27.03	12.92	10.80	3.16	H		0.114	20.56		
		16-QAM	-27.97	11.98	10.80	3.16	H		0.092	19.62		
		64-QAM	-29.59	10.36	10.80	3.16	H		0.063	18.00		
		256-QAM	-31.80	8.15	10.80	3.16	H		0.038	15.79		

9.2 RADIATED SPURIOUS EMISSIONS

- ▣ NR Band: N77(78)
- ▣ Bandwidth: 90 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meters
- ▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
649668 (3745.02)	7 490.04	-64.01	10.90	-56.58	4.50	V	-50.18	-13.00	1	122
	11 235.06	-64.06	11.40	-53.87	5.63	V	-48.10	-13.00		
	14 980.08	-58.83	13.60	-52.56	6.63	V	-45.59	-13.00		
656000 (3840.00)	7 680.00	-64.71	11.10	-57.85	4.55	V	-51.30	-13.00	1	1
	11 520.00	-66.03	11.50	-54.89	5.70	V	-49.09	-13.00		
	15 360.00	-59.78	15.10	-53.99	6.72	V	-45.61	-13.00		
662332 (3934.98)	7 869.96	-62.65	10.60	-55.18	4.62	V	-49.20	-13.00	1	243
	11 804.94	-64.77	12.20	-54.75	5.79	V	-48.34	-13.00		
	15 739.92	-62.55	15.10	-56.81	6.82	V	-48.53	-13.00		

9.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n77	10 MHz	3840.00	BPSK	Full RB	0	4.19
			QPSK			5.44
			16-QAM			6.31
			64-QAM			6.58
			256-QAM			6.63
	15 MHz		BPSK			4.33
			QPSK			5.58
			16-QAM			6.37
			64-QAM			6.66
			256-QAM			6.88
	20 MHz		BPSK			4.19
			QPSK			5.68
			16-QAM			6.46
			64-QAM			6.70
			256-QAM			6.85
	25 MHz		BPSK			4.29
			QPSK			5.75
			16-QAM			6.40
			64-QAM			6.64
			256-QAM			6.84
	30 MHz		BPSK			4.12
			QPSK			5.58
			16-QAM			6.42
			64-QAM			6.64
			256-QAM			6.72
	40 MHz		BPSK			4.31
			QPSK			5.72
			16-QAM			6.43
			64-QAM			6.62
			256-QAM			6.76
	50 MHz		BPSK			4.05
			QPSK			5.61
16-QAM		6.38				
64-QAM		6.63				
256-QAM		6.72				
60 MHz	BPSK	4.06				
	QPSK	5.55				
	16-QAM	6.41				
	64-QAM	6.63				
	256-QAM	6.78				
70 MHz	BPSK	4.70				
	QPSK	5.61				
	16-QAM	6.41				
	64-QAM	6.59				
	256-QAM	6.70				

80 MHz	BPSK	4.63
	QPSK	5.48
	16-QAM	6.37
	64-QAM	6.58
	256-QAM	6.72
90 MHz	BPSK	4.63
	QPSK	5.51
	16-QAM	6.35
	64-QAM	6.61
	256-QAM	6.77
100 MHz	BPSK	4.63
	QPSK	5.69
	16-QAM	6.39
	64-QAM	6.63
	256-QAM	6.74

Note:

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

9.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n77	10 MHz	3840.00	BPSK	Full RB	0	8.5807
			QPSK			8.6208
			16-QAM			8.6723
			64-QAM			8.6626
			256-QAM			8.6847
	15 MHz		BPSK			12.960
			QPSK			12.980
			16-QAM			12.988
			64-QAM			12.954
			256-QAM			12.944
	20 MHz		BPSK			17.953
			QPSK			17.973
			16-QAM			17.932
			64-QAM			17.976
			256-QAM			17.997
	25 MHz		BPSK			22.954
			QPSK			22.986
			16-QAM			23.017
			64-QAM			22.965
			256-QAM			22.934
	30 MHz		BPSK			26.938
			QPSK			26.975
			16-QAM			26.921
			64-QAM			26.941
			256-QAM			26.965
	40 MHz		BPSK			35.833
			QPSK			35.886
			16-QAM			35.896
			64-QAM			35.879
			256-QAM			35.906
	50 MHz		BPSK			45.820
			QPSK			45.879
16-QAM		45.845				
64-QAM		45.874				
256-QAM		45.863				
60 MHz	BPSK	58.037				
	QPSK	58.024				
	16-QAM	58.047				
	64-QAM	57.960				
	256-QAM	58.035				
70 MHz	BPSK	64.711				
	QPSK	64.665				
	16-QAM	64.498				
	64-QAM	64.498				
	256-QAM	64.475				

80 MHz	BPSK	77.290
	QPSK	77.300
	16-QAM	77.382
	64-QAM	77.217
	256-QAM	77.318
90 MHz	BPSK	86.923
	QPSK	86.965
	16-QAM	87.155
	64-QAM	87.140
	256-QAM	86.958
100 MHz	BPSK	96.685
	QPSK	96.808
	16-QAM	96.638
	64-QAM	96.703
	256-QAM	96.963

Note:

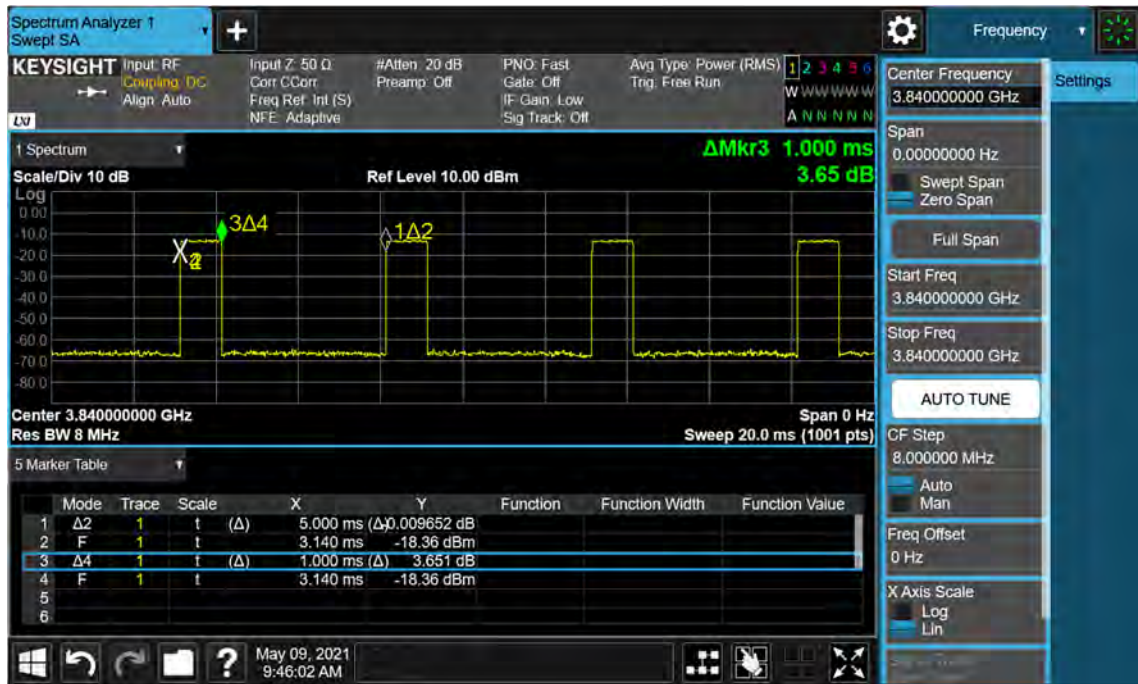
1. Plots of the EUT's Occupied Bandwidth are shown Page 484 ~ 543.

9.5 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
Sub6 n77	10	3705.00	8.0314	37.805	-70.931	-33.126	-13.00
		3840.00	5.7503	37.805	-70.807	-33.002	
		3975.00	4.9856	37.190	-70.799	-33.609	
	15	3707.52	8.8893	37.805	-70.788	-32.983	
		3840.00	9.7393	37.805	-70.425	-32.620	
		3972.48	9.9975	37.805	-70.675	-32.870	
	20	3710.01	8.0459	37.805	-70.828	-33.023	
		3840.00	5.2164	37.805	-70.798	-32.993	
		3969.99	8.0140	37.805	-71.092	-33.287	
	25	3712.50	8.2627	37.805	-70.752	-32.947	
		3840.00	9.1396	37.805	-70.936	-33.131	
		3967.50	8.6336	37.805	-70.872	-33.067	
	30	3715.02	8.2886	37.805	-70.096	-32.291	
		3840.00	8.0105	37.805	-70.382	-32.577	
		3964.98	8.2543	37.805	-70.602	-32.797	
	40	3720.00	9.9247	37.805	-70.755	-32.950	
		3840.00	8.2543	37.805	-70.873	-33.068	
		3960.00	8.2617	37.805	-70.850	-33.045	
	50	3725.10	4.5838	37.190	-71.272	-34.082	
		3840.00	9.9641	37.805	-71.039	-33.234	
		3954.99	9.7029	37.805	-70.662	-32.857	
	60	3730.02	4.9203	37.190	-70.396	-33.206	
		3840.00	7.9975	37.805	-70.668	-32.863	
		3949.98	9.4417	37.805	-71.058	-33.253	
	70	3735.00	8.2877	37.805	-70.397	-32.592	
		3840.00	9.4831	37.805	-70.139	-32.334	
		3945.00	9.6770	37.805	-70.191	-32.386	
	80	3740.01	8.0000	37.805	-69.881	-32.076	
		3840.00	9.6864	37.805	-71.025	-33.220	
		3939.99	8.2966	37.805	-70.660	-32.855	
90	3745.02	9.6835	37.805	-70.611	-32.806		
	3840.00	9.7044	37.805	-70.629	-32.824		
	3934.98	8.2587	37.805	-69.727	-31.922		
100	3750.00	5.5145	37.805	-70.594	-32.789		
	3840.00	9.7268	37.805	-69.875	-32.070		
	3930.00	4.8490	37.190	-70.663	-33.473		

Note:

1. Plots of the EUT’s Conducted Spurious Emissions are shown Page 544 ~ 615.
2. Duty Cycle factor already applied on the factor.
 - Duty Cycle Factor(dB) = 6.990



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

3. Factor(dB)

Frequency Range (GHz)	Factor [dB]
0.03 – 1	34.484
1 – 5	37.190
5 – 10	37.805
10 – 15	38.330
15 – 20	38.703
Above 20	39.345

9.6 BAND EDGE

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

9.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

- ▣ BandWidth: 10 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3705.000	100 %	+20(Ref)	3704 999 994	0.0	0.000 000	0.000
	100 %	-30	3704 999 995	1.2	0.000 000	0.000
	100 %	-20	3704 999 988	-5.8	0.000 000	-0.002
	100 %	-10	3704 999 990	-3.9	0.000 000	-0.001
	100 %	0	3704 999 991	-3.5	0.000 000	-0.001
	100 %	+10	3704 999 991	-3.0	0.000 000	-0.001
	100 %	+30	3704 999 991	-2.9	0.000 000	-0.001
	100 %	+40	3704 999 989	-5.5	0.000 000	-0.001
	100 %	+50	3704 999 989	-4.7	0.000 000	-0.001
	Batt. Endpoint	+20	3704 999 994	-0.5	0.000 000	0.000
3975.000	100 %	+20(Ref)	3975 000 001	0.0	0.000 000	0.000
	100 %	-30	3975 000 001	-0.4	0.000 000	0.000
	100 %	-20	3975 000 002	0.1	0.000 000	0.000
	100 %	-10	3975 000 003	1.8	0.000 000	0.000
	100 %	0	3975 000 004	2.6	0.000 000	0.001
	100 %	+10	3974 999 999	-2.9	0.000 000	-0.001
	100 %	+30	3974 999 999	-2.8	0.000 000	-0.001
	100 %	+40	3975 000 003	1.5	0.000 000	0.000
	100 %	+50	3974 999 999	-2.0	0.000 000	0.000
	Batt. Endpoint	+20	3975 000 000	-1.4	0.000 000	0.000

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3707.520	100 %	+20(Ref)	3707 519 998	0.0	0.000 000	0.000
	100 %	-30	3707 519 995	-3.0	0.000 000	-0.001
	100 %	-20	3707 519 999	1.3	0.000 000	0.000
	100 %	-10	3707 519 995	-3.0	0.000 000	-0.001
	100 %	0	3707 520 003	4.8	0.000 000	0.001
	100 %	+10	3707 520 000	1.8	0.000 000	0.000
	100 %	+30	3707 519 995	-2.8	0.000 000	-0.001
	100 %	+40	3707 519 997	-1.1	0.000 000	0.000
	100 %	+50	3707 519 992	-6.0	0.000 000	-0.002
	Batt. Endpoint	+20	3707 519 996	-2.2	0.000 000	-0.001
3972.480	100 %	+20(Ref)	3972 479 996	0.0	0.000 000	0.000
	100 %	-30	3972 479 995	-0.9	0.000 000	0.000
	100 %	-20	3972 479 995	-0.7	0.000 000	0.000
	100 %	-10	3972 479 993	-2.8	0.000 000	-0.001
	100 %	0	3972 479 993	-2.9	0.000 000	-0.001
	100 %	+10	3972 479 993	-2.4	0.000 000	-0.001
	100 %	+30	3972 479 989	-6.4	0.000 000	-0.002
	100 %	+40	3972 479 993	-2.7	0.000 000	-0.001
	100 %	+50	3972 479 998	2.4	0.000 000	0.001
	Batt. Endpoint	+20	3972 479 993	-2.8	0.000 000	-0.001

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3710.010	100 %	+20(Ref)	3710 009 993	0.0	0.000 000	0.000
	100 %	-30	3710 009 996	3.3	0.000 000	0.001
	100 %	-20	3710 009 987	-5.8	0.000 000	-0.002
	100 %	-10	3710 009 990	-3.2	0.000 000	-0.001
	100 %	0	3710 009 989	-3.7	0.000 000	-0.001
	100 %	+10	3710 009 991	-1.8	0.000 000	0.000
	100 %	+30	3710 009 989	-3.4	0.000 000	-0.001
	100 %	+40	3710 009 991	-2.2	0.000 000	-0.001
	100 %	+50	3710 009 992	-0.4	0.000 000	0.000
	Batt. Endpoint	+20	3710 009 989	-3.7	0.000 000	-0.001
3969.990	100 %	+20(Ref)	3969 990 002	0.0	0.000 000	0.000
	100 %	-30	3969 990 000	-2.0	0.000 000	-0.001
	100 %	-20	3969 989 999	-2.8	0.000 000	-0.001
	100 %	-10	3969 990 002	0.2	0.000 000	0.000
	100 %	0	3969 989 998	-3.2	0.000 000	-0.001
	100 %	+10	3969 990 000	-1.3	0.000 000	0.000
	100 %	+30	3969 990 001	-0.5	0.000 000	0.000
	100 %	+40	3969 990 002	0.6	0.000 000	0.000
	100 %	+50	3969 990 002	0.0	0.000 000	0.000
	Batt. Endpoint	+20	3969 989 996	-5.2	0.000 000	-0.001

- ▣ BandWidth: 25 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3712.500	100 %	+20(Ref)	3712 499 996	0.0	0.000 000	0.000
	100 %	-30	3712 499 990	-5.9	0.000 000	-0.002
	100 %	-20	3712 499 993	-3.1	0.000 000	-0.001
	100 %	-10	3712 499 996	0.6	0.000 000	0.000
	100 %	0	3712 499 993	-3.0	0.000 000	-0.001
	100 %	+10	3712 499 995	-0.4	0.000 000	0.000
	100 %	+30	3712 499 994	-1.8	0.000 000	0.000
	100 %	+40	3712 499 993	-2.4	0.000 000	-0.001
	100 %	+50	3712 499 994	-1.5	0.000 000	0.000
	Batt. Endpoint	+20	3712 499 993	-2.7	0.000 000	-0.001
3967.500	100 %	+20(Ref)	3967 500 000	0.0	0.000 000	0.000
	100 %	-30	3967 500 001	0.2	0.000 000	0.000
	100 %	-20	3967 499 996	-4.6	0.000 000	-0.001
	100 %	-10	3967 499 999	-1.5	0.000 000	0.000
	100 %	0	3967 500 000	-0.6	0.000 000	0.000
	100 %	+10	3967 500 001	0.5	0.000 000	0.000
	100 %	+30	3967 500 002	1.2	0.000 000	0.000
	100 %	+40	3967 499 999	-1.6	0.000 000	0.000
	100 %	+50	3967 499 999	-0.9	0.000 000	0.000
	Batt. Endpoint	+20	3967 499 994	-6.8	0.000 000	-0.002

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3715.020	100 %	+20(Ref)	3715 019 999	0.0	0.000 000	0.000
	100 %	-30	3715 020 002	3.7	0.000 000	0.001
	100 %	-20	3715 019 995	-3.1	0.000 000	-0.001
	100 %	-10	3715 020 000	1.6	0.000 000	0.000
	100 %	0	3715 019 998	-0.7	0.000 000	0.000
	100 %	+10	3715 020 000	1.9	0.000 000	0.001
	100 %	+30	3715 019 996	-2.3	0.000 000	-0.001
	100 %	+40	3715 019 995	-3.4	0.000 000	-0.001
	100 %	+50	3715 020 000	1.4	0.000 000	0.000
	Batt. Endpoint	+20	3715 020 000	1.6	0.000 000	0.000
3964.980	100 %	+20(Ref)	3964 979 996	0.0	0.000 000	0.000
	100 %	-30	3964 979 991	-4.2	0.000 000	-0.001
	100 %	-20	3964 979 991	-4.1	0.000 000	-0.001
	100 %	-10	3964 979 990	-5.4	0.000 000	-0.001
	100 %	0	3964 979 992	-3.4	0.000 000	-0.001
	100 %	+10	3964 979 993	-2.8	0.000 000	-0.001
	100 %	+30	3964 979 994	-1.4	0.000 000	0.000
	100 %	+40	3964 979 994	-1.1	0.000 000	0.000
	100 %	+50	3964 979 990	-5.9	0.000 000	-0.001
	Batt. Endpoint	+20	3964 979 995	-0.8	0.000 000	0.000

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3720.000	100 %	+20(Ref)	3719 999 997	0.0	0.000 000	0.000
	100 %	-30	3719 999 994	-2.3	0.000 000	-0.001
	100 %	-20	3719 999 994	-3.1	0.000 000	-0.001
	100 %	-10	3719 999 996	-1.0	0.000 000	0.000
	100 %	0	3719 999 997	0.0	0.000 000	0.000
	100 %	+10	3719 999 989	-8.2	0.000 000	-0.002
	100 %	+30	3719 999 995	-1.5	0.000 000	0.000
	100 %	+40	3719 999 994	-2.6	0.000 000	-0.001
	100 %	+50	3719 999 996	-0.5	0.000 000	0.000
	Batt. Endpoint	+20	3719 999 992	-4.7	0.000 000	-0.001
3960.000	100 %	+20(Ref)	3959 999 997	0.0	0.000 000	0.000
	100 %	-30	3959 999 995	-1.9	0.000 000	0.000
	100 %	-20	3959 999 997	-0.8	0.000 000	0.000
	100 %	-10	3959 999 996	-0.9	0.000 000	0.000
	100 %	0	3959 999 999	1.5	0.000 000	0.000
	100 %	+10	3959 999 995	-2.1	0.000 000	-0.001
	100 %	+30	3960 000 000	2.7	0.000 000	0.001
	100 %	+40	3960 000 000	3.0	0.000 000	0.001
	100 %	+50	3959 999 995	-2.3	0.000 000	-0.001
	Batt. Endpoint	+20	3959 999 997	-0.5	0.000 000	0.000

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3725.010	100 %	+20(Ref)	3725 009 999	0.0	0.000 000	0.000
	100 %	-30	3725 009 994	-4.4	0.000 000	-0.001
	100 %	-20	3725 009 998	-0.7	0.000 000	0.000
	100 %	-10	3725 010 000	1.0	0.000 000	0.000
	100 %	0	3725 009 999	-0.1	0.000 000	0.000
	100 %	+10	3725 010 000	0.8	0.000 000	0.000
	100 %	+30	3725 009 995	-4.4	0.000 000	-0.001
	100 %	+40	3725 009 996	-3.1	0.000 000	-0.001
	100 %	+50	3725 009 997	-2.0	0.000 000	-0.001
	Batt. Endpoint	+20	3725 009 994	-5.1	0.000 000	-0.001
3954.990	100 %	+20(Ref)	3954 989 999	0.0	0.000 000	0.000
	100 %	-30	3954 989 998	-1.0	0.000 000	0.000
	100 %	-20	3954 989 996	-3.2	0.000 000	-0.001
	100 %	-10	3954 989 998	-1.1	0.000 000	0.000
	100 %	0	3954 989 995	-4.3	0.000 000	-0.001
	100 %	+10	3954 989 999	0.0	0.000 000	0.000
	100 %	+30	3954 989 998	-0.9	0.000 000	0.000
	100 %	+40	3954 989 999	-0.1	0.000 000	0.000
	100 %	+50	3954 989 998	-0.9	0.000 000	0.000
	Batt. Endpoint	+20	3954 989 996	-3.2	0.000 000	-0.001

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3730.020	100 %	+20(Ref)	3730 020 000	0.0	0.000 000	0.000
	100 %	-30	3730 019 996	-4.3	0.000 000	-0.001
	100 %	-20	3730 020 003	2.4	0.000 000	0.001
	100 %	-10	3730 020 002	1.7	0.000 000	0.000
	100 %	0	3730 019 999	-1.5	0.000 000	0.000
	100 %	+10	3730 019 998	-2.6	0.000 000	-0.001
	100 %	+30	3730 020 003	2.8	0.000 000	0.001
	100 %	+40	3730 020 002	1.4	0.000 000	0.000
	100 %	+50	3730 019 997	-3.5	0.000 000	-0.001
	Batt. Endpoint	+20	3730 020 002	1.9	0.000 000	0.001
3949.980	100 %	+20(Ref)	3949 980 000	0.0	0.000 000	0.000
	100 %	-30	3949 979 995	-4.7	0.000 000	-0.001
	100 %	-20	3949 979 997	-2.5	0.000 000	-0.001
	100 %	-10	3949 979 999	-1.3	0.000 000	0.000
	100 %	0	3949 979 993	-6.8	0.000 000	-0.002
	100 %	+10	3949 979 995	-5.2	0.000 000	-0.001
	100 %	+30	3949 979 998	-2.2	0.000 000	-0.001
	100 %	+40	3949 979 995	-4.7	0.000 000	-0.001
	100 %	+50	3949 979 997	-3.1	0.000 000	-0.001
	Batt. Endpoint	+20	3949 979 997	-3.0	0.000 000	-0.001

- ▣ BandWidth: 70 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3735.000	100 %	+20(Ref)	3734 999 996	0.0	0.000 000	0.000
	100 %	-30	3734 999 991	-5.2	0.000 000	-0.001
	100 %	-20	3734 999 991	-5.3	0.000 000	-0.001
	100 %	-10	3734 999 992	-4.0	0.000 000	-0.001
	100 %	0	3734 999 990	-5.7	0.000 000	-0.002
	100 %	+10	3734 999 995	-1.4	0.000 000	0.000
	100 %	+30	3734 999 994	-2.1	0.000 000	-0.001
	100 %	+40	3734 999 992	-4.0	0.000 000	-0.001
	100 %	+50	3734 999 989	-7.4	0.000 000	-0.002
	Batt. Endpoint	+20	3734 999 992	-3.8	0.000 000	-0.001
3945.000	100 %	+20(Ref)	3944 999 996	0.0	0.000 000	0.000
	100 %	-30	3944 999 996	-0.5	0.000 000	0.000
	100 %	-20	3945 000 000	3.7	0.000 000	0.001
	100 %	-10	3944 999 993	-2.9	0.000 000	-0.001
	100 %	0	3944 999 997	0.8	0.000 000	0.000
	100 %	+10	3944 999 993	-3.2	0.000 000	-0.001
	100 %	+30	3944 999 991	-4.9	0.000 000	-0.001
	100 %	+40	3944 999 998	1.5	0.000 000	0.000
	100 %	+50	3944 999 995	-1.1	0.000 000	0.000
	Batt. Endpoint	+20	3944 999 998	1.5	0.000 000	0.000

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 3.880 VDC
- ▣ Batt. Endpoint: 3.300 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3740.010	100 %	+20(Ref)	3740 009 999	0.0	0.000 000	0.000
	100 %	-30	3740 009 993	-6.2	0.000 000	-0.002
	100 %	-20	3740 009 996	-3.0	0.000 000	-0.001
	100 %	-10	3740 009 997	-1.4	0.000 000	0.000
	100 %	0	3740 009 993	-5.4	0.000 000	-0.001
	100 %	+10	3740 009 999	0.0	0.000 000	0.000
	100 %	+30	3740 009 995	-3.3	0.000 000	-0.001
	100 %	+40	3740 009 995	-3.7	0.000 000	-0.001
	100 %	+50	3740 009 993	-5.7	0.000 000	-0.002
	Batt. Endpoint	+20	3740 009 996	-2.5	0.000 000	-0.001
3939.990	100 %	+20(Ref)	3939 989 998	0.0	0.000 000	0.000
	100 %	-30	3939 989 990	-7.4	0.000 000	-0.002
	100 %	-20	3939 989 993	-4.6	0.000 000	-0.001
	100 %	-10	3939 989 992	-5.9	0.000 000	-0.002
	100 %	0	3939 990 000	2.2	0.000 000	0.001
	100 %	+10	3939 989 990	-7.5	0.000 000	-0.002
	100 %	+30	3939 989 997	-1.2	0.000 000	0.000
	100 %	+40	3939 989 993	-5.3	0.000 000	-0.001
	100 %	+50	3939 989 998	0.5	0.000 000	0.000
	Batt. Endpoint	+20	3939 989 989	-9.2	0.000 000	-0.002

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

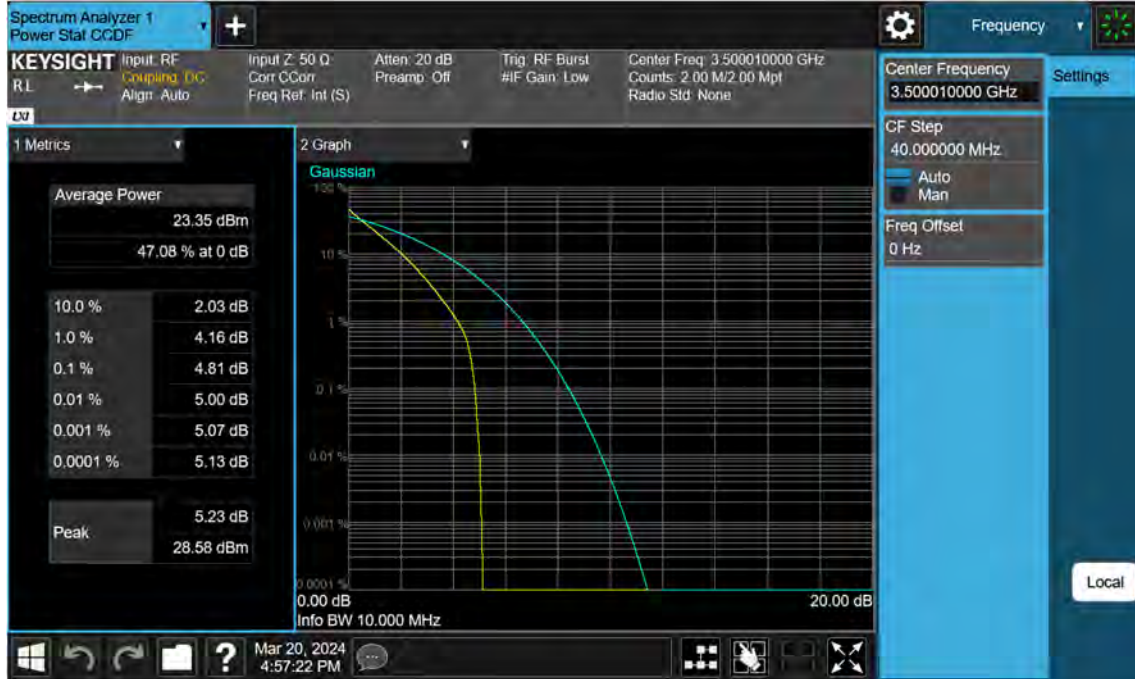
Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3745.020	100 %	+20(Ref)	3745 019 995	0.0	0.000 000	0.000
	100 %	-30	3745 020 000	5.2	0.000 000	0.001
	100 %	-20	3745 019 995	-0.5	0.000 000	0.000
	100 %	-10	3745 019 994	-0.9	0.000 000	0.000
	100 %	0	3745 019 996	0.7	0.000 000	0.000
	100 %	+10	3745 019 992	-3.5	0.000 000	-0.001
	100 %	+30	3745 019 991	-3.8	0.000 000	-0.001
	100 %	+40	3745 019 991	-4.0	0.000 000	-0.001
	100 %	+50	3745 019 992	-2.8	0.000 000	-0.001
	Batt. Endpoint	+20	3745 019 995	0.2	0.000 000	0.000
3934.980	100 %	+20(Ref)	3934 979 993	0.0	0.000 000	0.000
	100 %	-30	3934 979 992	-0.8	0.000 000	0.000
	100 %	-20	3934 979 987	-5.5	0.000 000	-0.001
	100 %	-10	3934 979 986	-6.8	0.000 000	-0.002
	100 %	0	3934 979 993	-0.3	0.000 000	0.000
	100 %	+10	3934 979 988	-4.7	0.000 000	-0.001
	100 %	+30	3934 979 990	-3.4	0.000 000	-0.001
	100 %	+40	3934 979 990	-3.2	0.000 000	-0.001
	100 %	+50	3934 979 986	-6.6	0.000 000	-0.002
	Batt. Endpoint	+20	3934 979 987	-5.8	0.000 000	-0.001

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

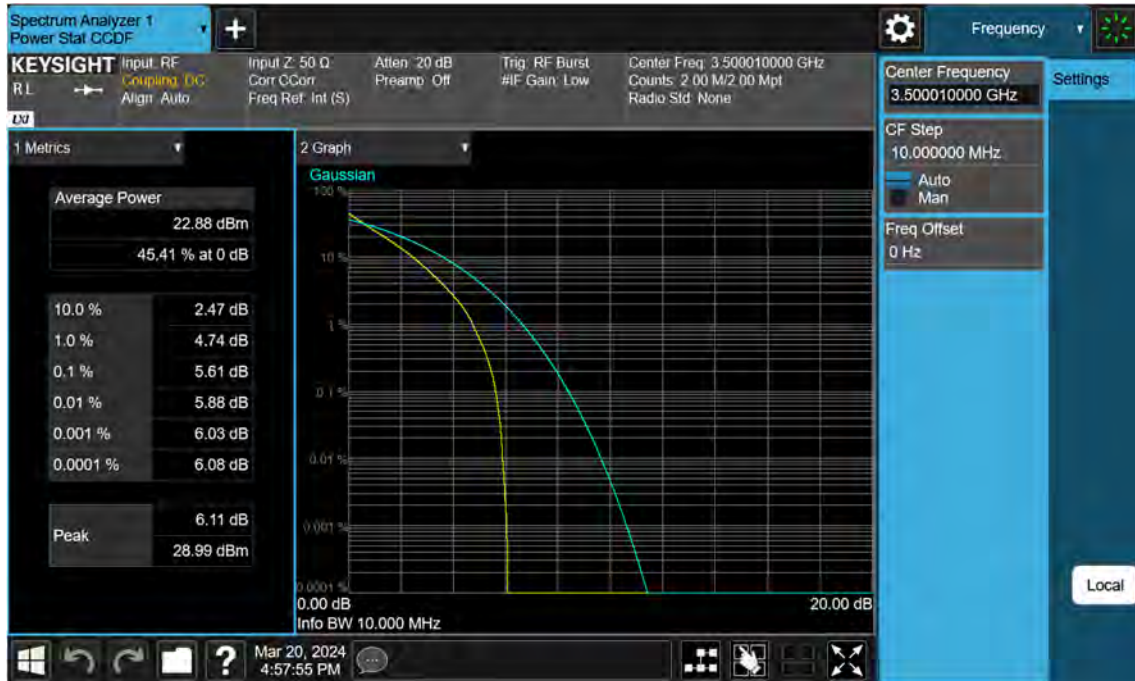
Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3750.000	100 %	+20(Ref)	3749 999 999	0.0	0.000 000	0.000
	100 %	-30	3749 999 997	-1.8	0.000 000	0.000
	100 %	-20	3749 999 995	-4.1	0.000 000	-0.001
	100 %	-10	3749 999 991	-7.7	0.000 000	-0.002
	100 %	0	3749 999 996	-2.9	0.000 000	-0.001
	100 %	+10	3749 999 997	-1.4	0.000 000	0.000
	100 %	+30	3749 999 994	-4.7	0.000 000	-0.001
	100 %	+40	3749 999 993	-5.6	0.000 000	-0.001
	100 %	+50	3749 999 996	-2.6	0.000 000	-0.001
	Batt. Endpoint	+20	3749 999 995	-3.6	0.000 000	-0.001
3930.000	100 %	+20(Ref)	3929 999 997	0.0	0.000 000	0.000
	100 %	-30	3929 999 993	-4.0	0.000 000	-0.001
	100 %	-20	3929 999 993	-4.0	0.000 000	-0.001
	100 %	-10	3929 999 997	0.2	0.000 000	0.000
	100 %	0	3929 999 994	-3.2	0.000 000	-0.001
	100 %	+10	3930 000 000	2.6	0.000 000	0.001
	100 %	+30	3929 999 995	-2.3	0.000 000	-0.001
	100 %	+40	3929 999 995	-2.7	0.000 000	-0.001
	100 %	+50	3929 999 993	-3.9	0.000 000	-0.001
	Batt. Endpoint	+20	3929 999 993	-4.6	0.000 000	-0.001

10. TEST PLOTS(3450 MHz - 3550 MHz)

n77(3450~3550 MHz)_10 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_10 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_10 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_10 M_PAR_Mid_64QAM_FullRB



n77(3450~3550 MHz)_10 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_15 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_15 M_PAR_Mid_QPSK_FullRB



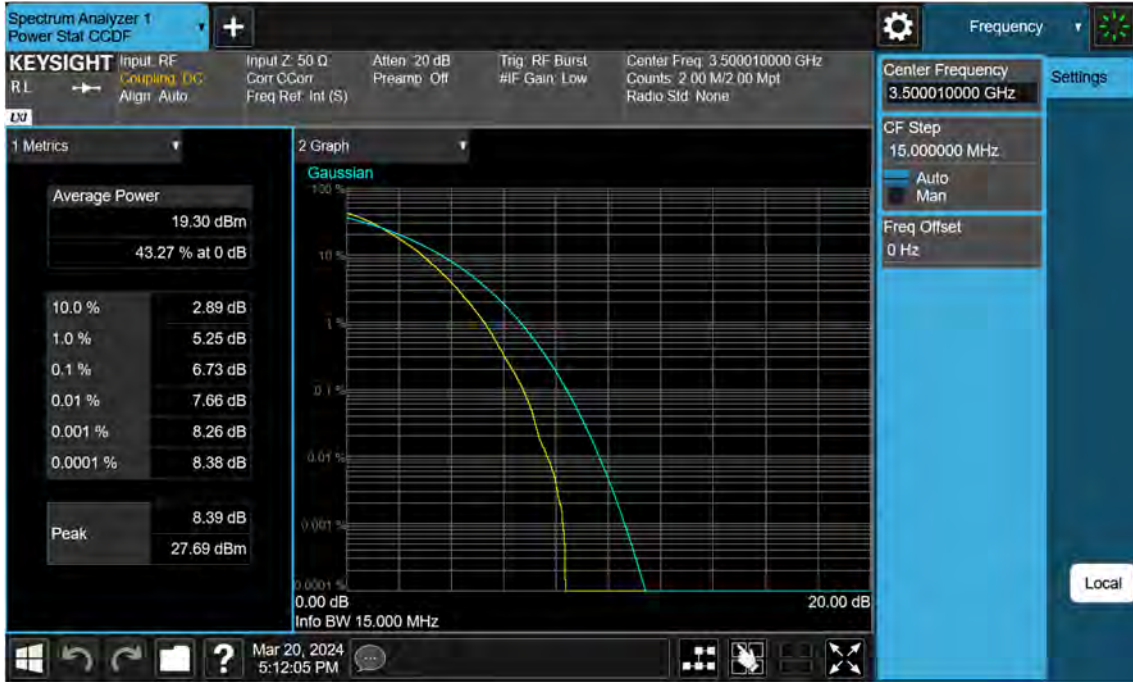
n77(3450~3550 MHz)_15 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_15 M_PAR_Mid_64QAM_FullRB



n77(3450~3550 MHz)_15 M_PAR_Mid_256QAM_FullRB



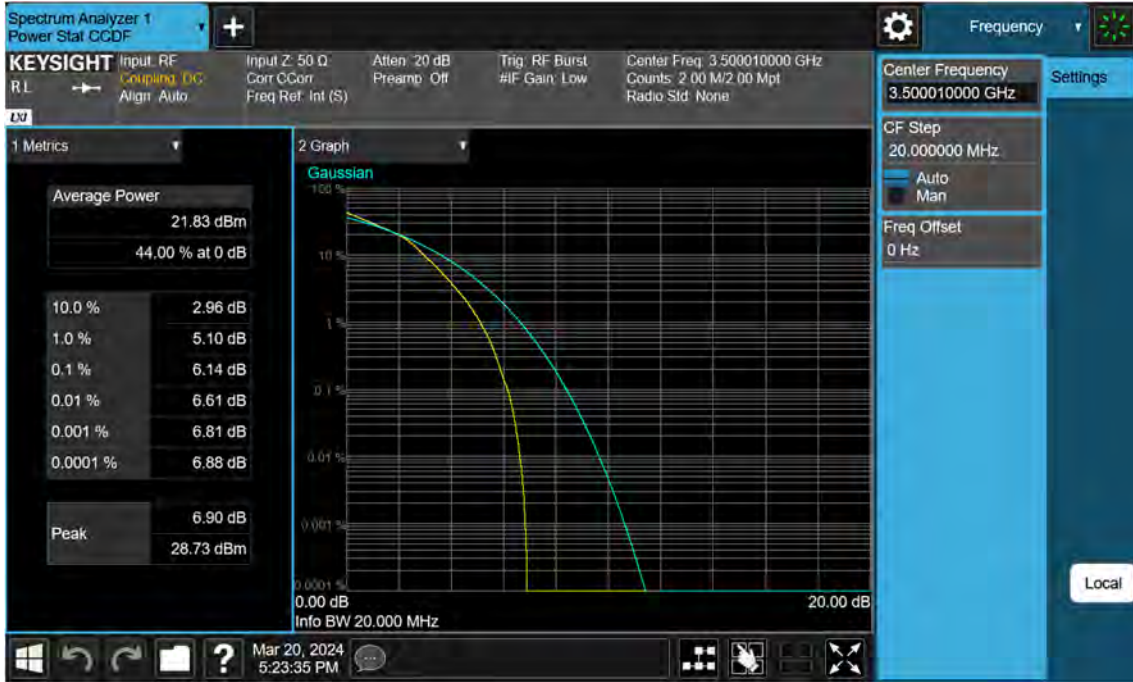
n77(3450~3550 MHz)_20 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_20 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_20 M_PAR_Mid_16QAM_FullRB



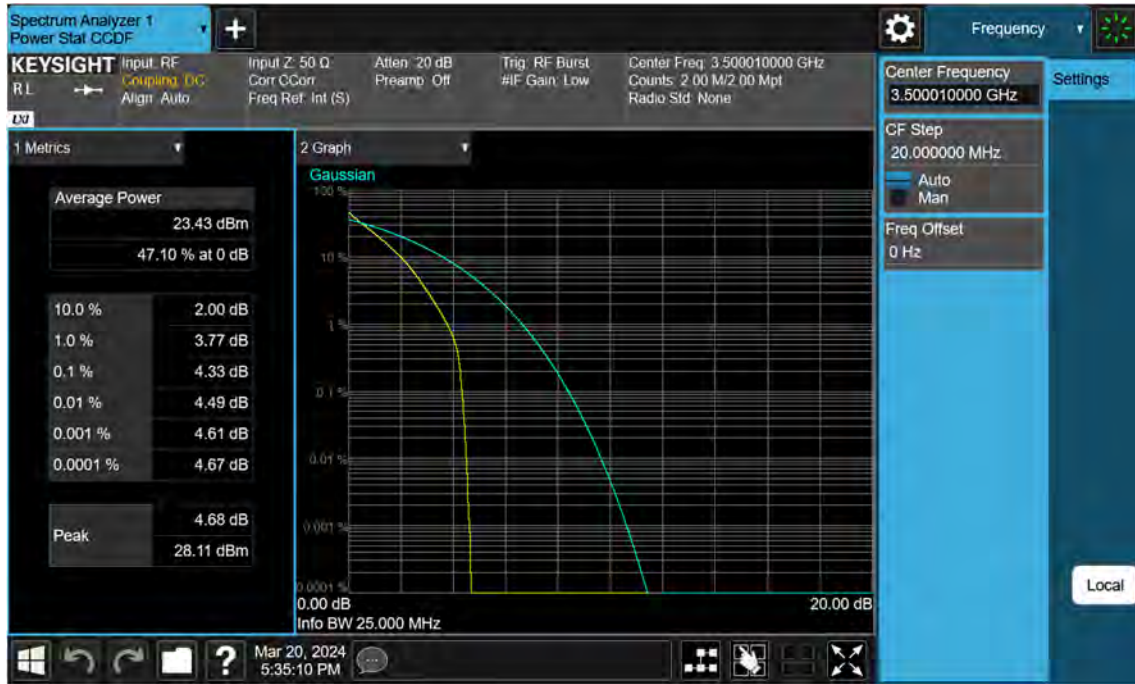
n77(3450~3550 MHz)_20 M_PAR_Mid_64QAM_FullRB



n77(3450~3550 MHz)_20 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_25 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_25 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_25 M_PAR_Mid_16QAM_FullRB



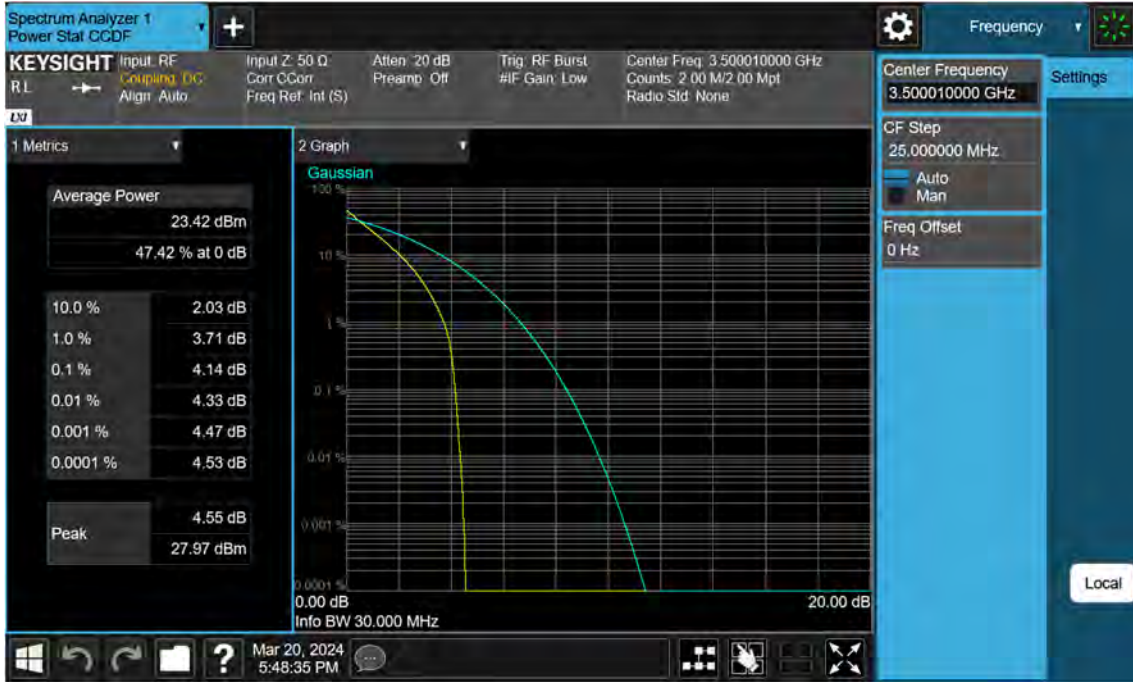
n77(3450~3550 MHz)_25 M_PAR_Mid_64QAM_FullRB



n77(3450~3550 MHz)_25 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_30 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_30 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_30 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_30 M_PAR_Mid_64QAM_FullRB



n77(3450~3550 MHz)_30 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_40 M_PAR_Mid_BPSK_FullRB



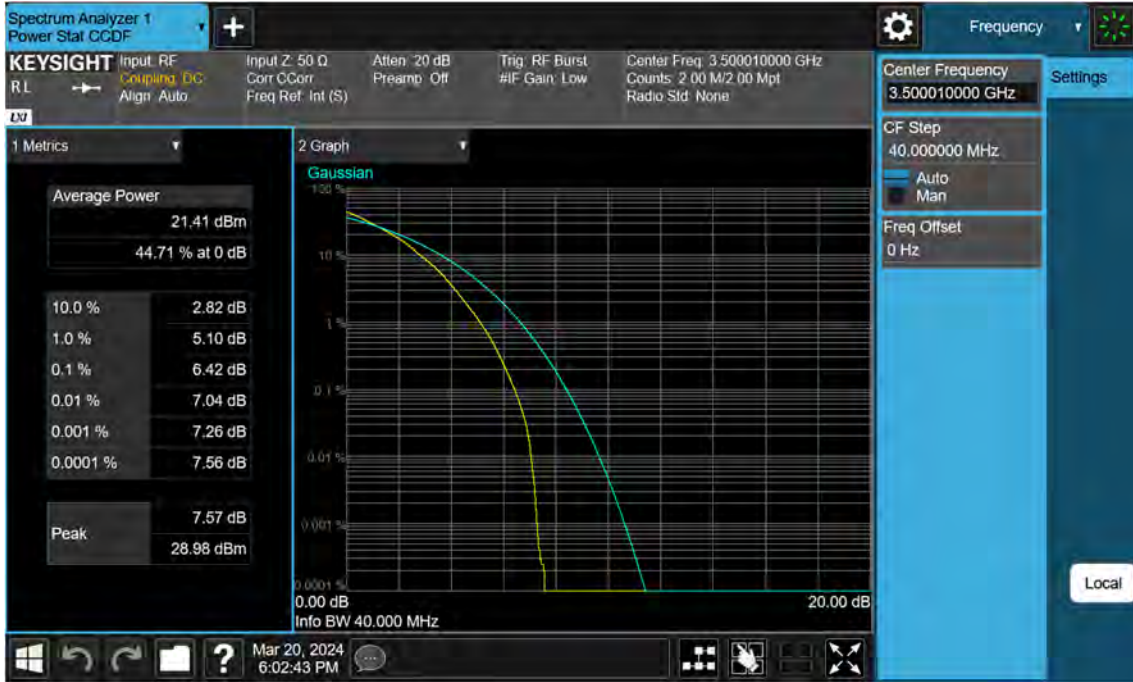
n77(3450~3550 MHz)_40 M_PAR_Mid_QPSK_FullRB



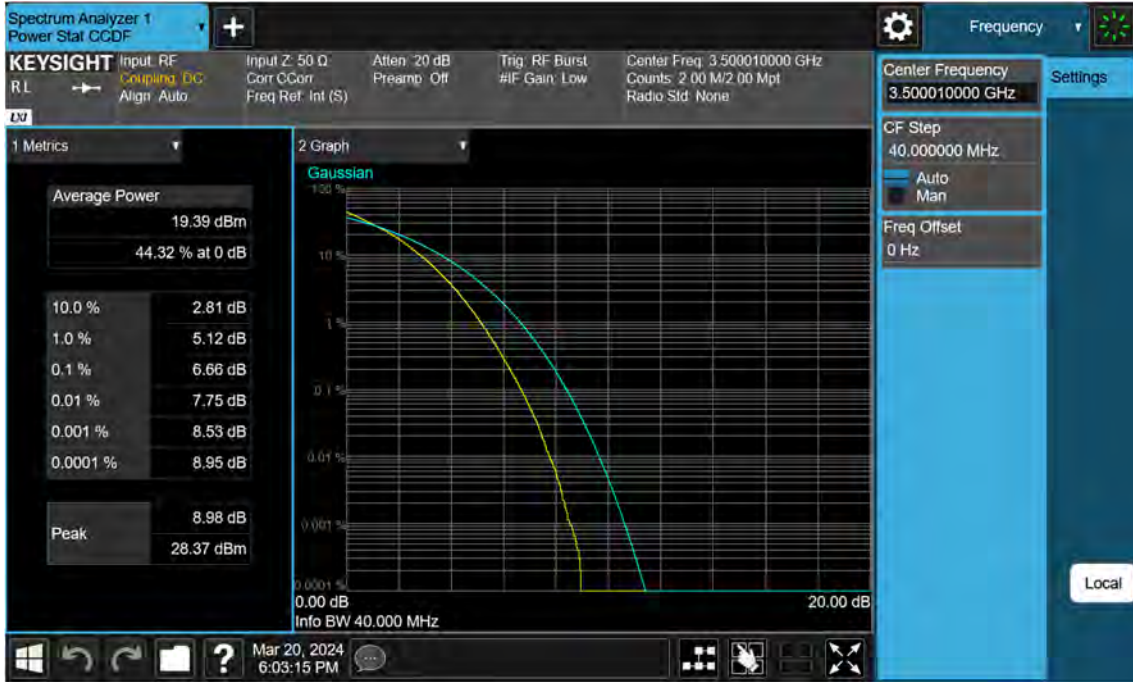
n77(3450~3550 MHz)_40 M_PAR_Mid_16QAM_FullRB



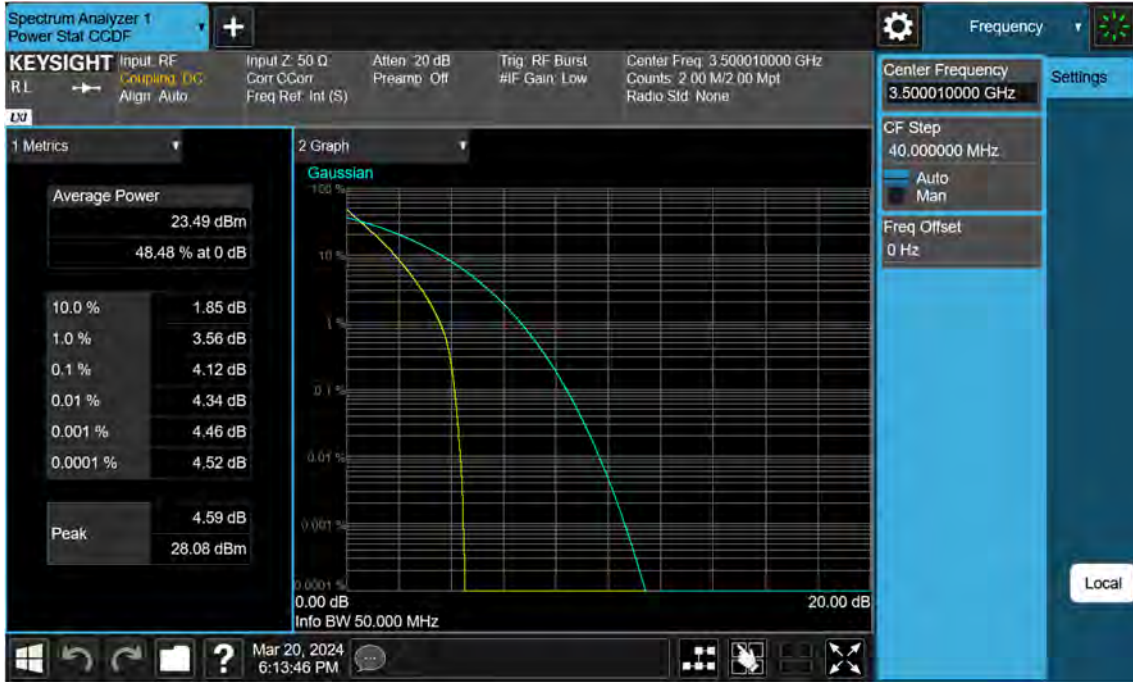
n77(3450~3550 MHz)_40 M_PAR_Mid_64QAM_FullRB



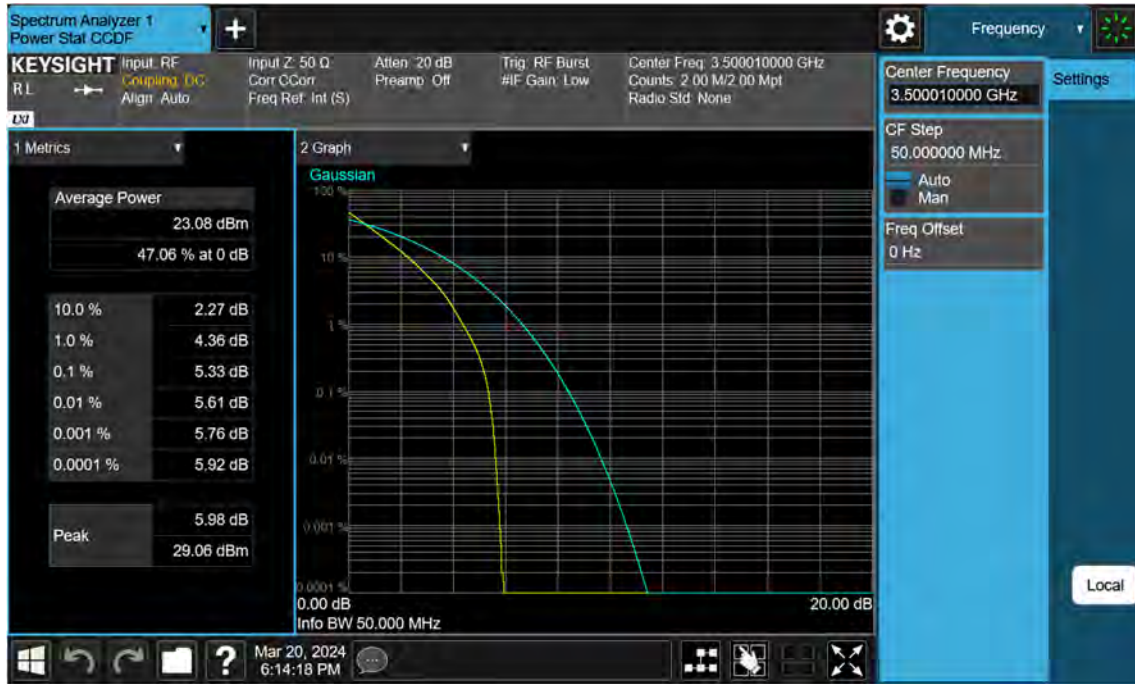
n77(3450~3550 MHz)_40 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_50 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_50 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_50 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_50 M_PAR_Mid_64QAM_FullRB



n77(3450~3550 MHz)_50 M_PAR_Mid_256QAM_FullRB



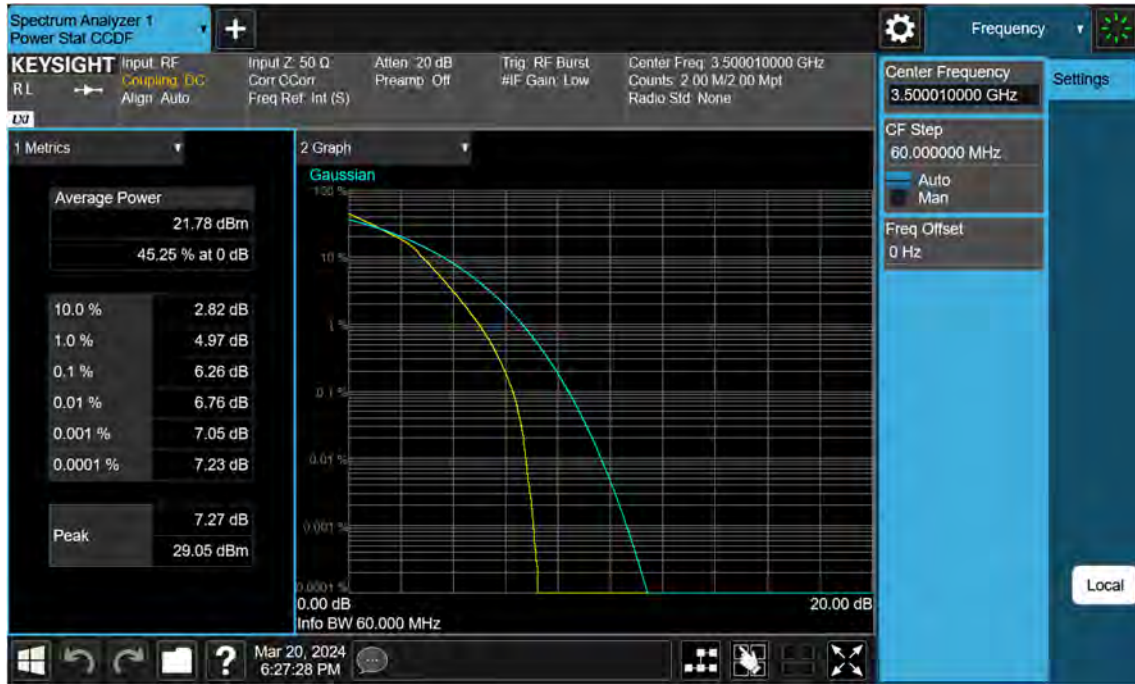
n77(3450~3550 MHz)_60 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_60 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_60 M_PAR_Mid_16QAM_FullRB



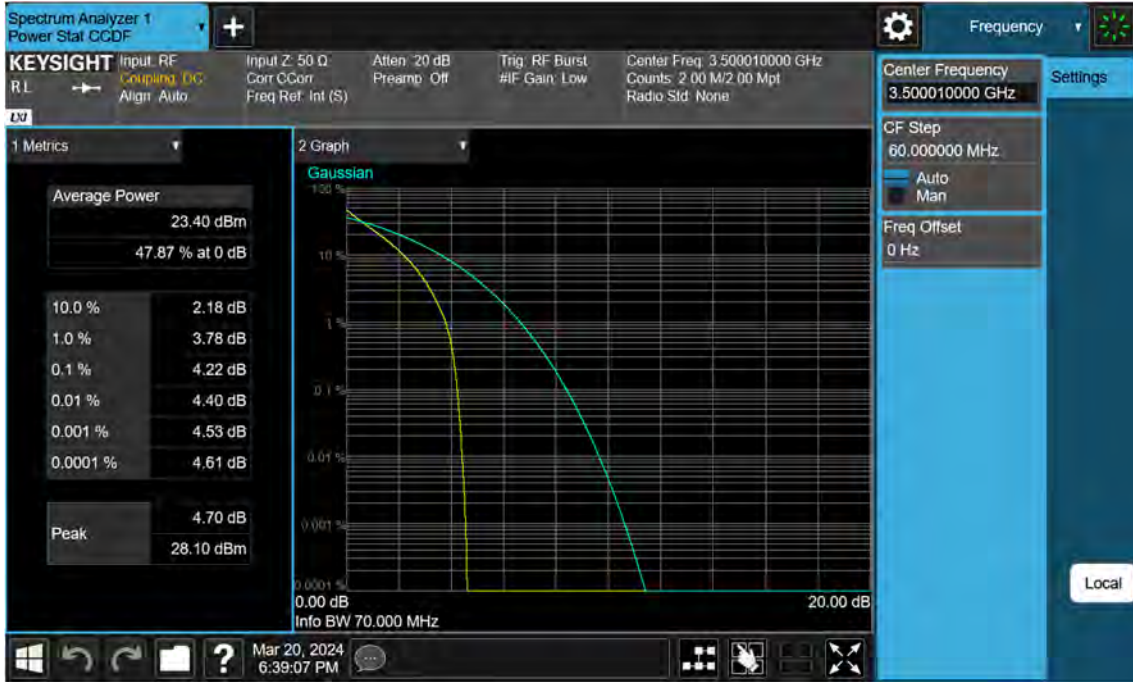
n77(3450~3550 MHz)_60 M_PAR_Mid_64QAM_FullRB



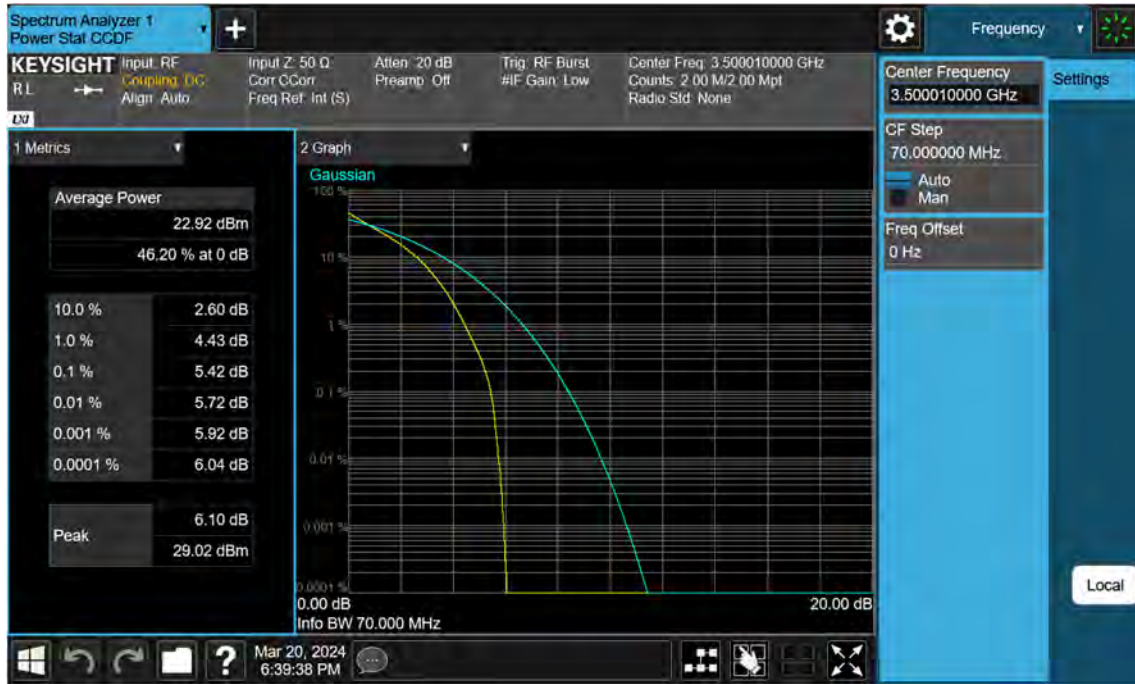
n77(3450~3550 MHz)_60 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_70 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_70 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_70 M_PAR_Mid_16QAM_FullRB



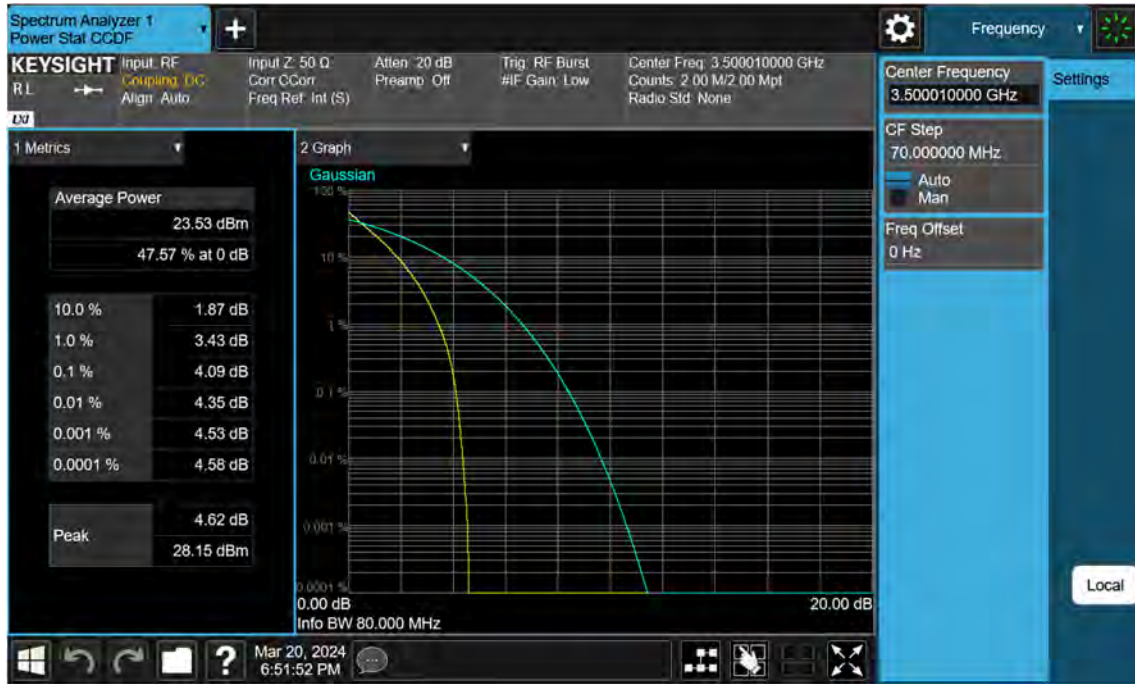
n77(3450~3550 MHz)_70 M_PAR_Mid_64QAM_FullRB



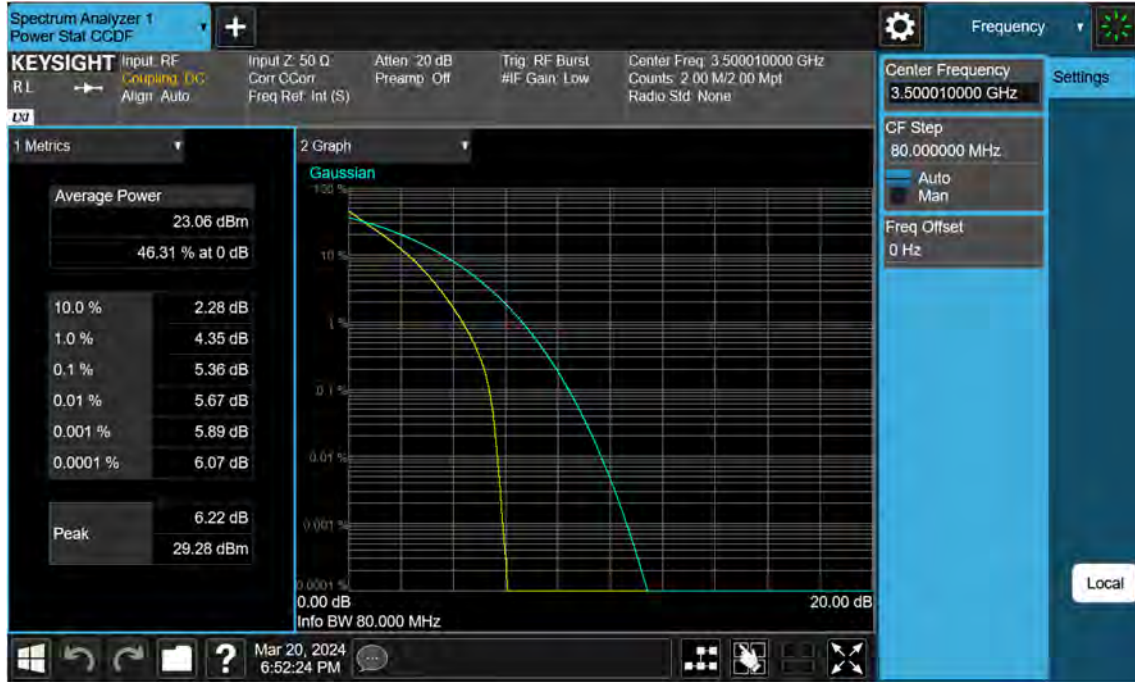
n77(3450~3550 MHz)_70 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_80 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_80 M_PAR_Mid_QPSK_FullRB



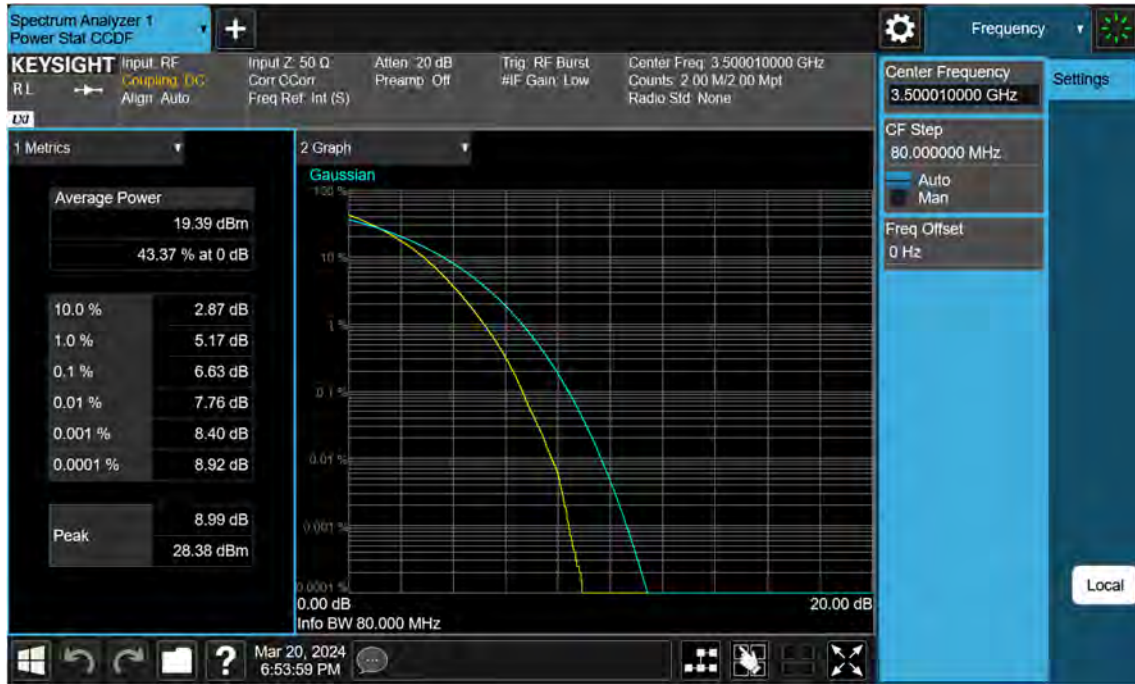
n77(3450~3550 MHz)_80 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_80 M_PAR_Mid_64QAM_FullRB



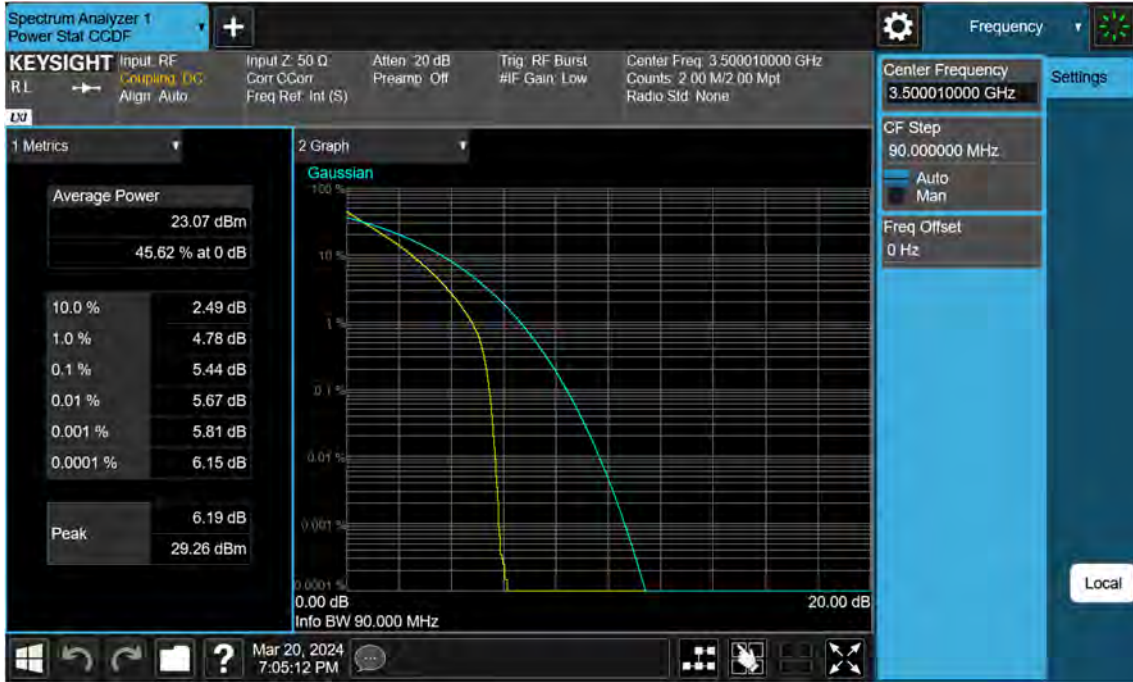
n77(3450~3550 MHz)_80 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_90 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_90 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_90 M_PAR_Mid_16QAM_FullRB



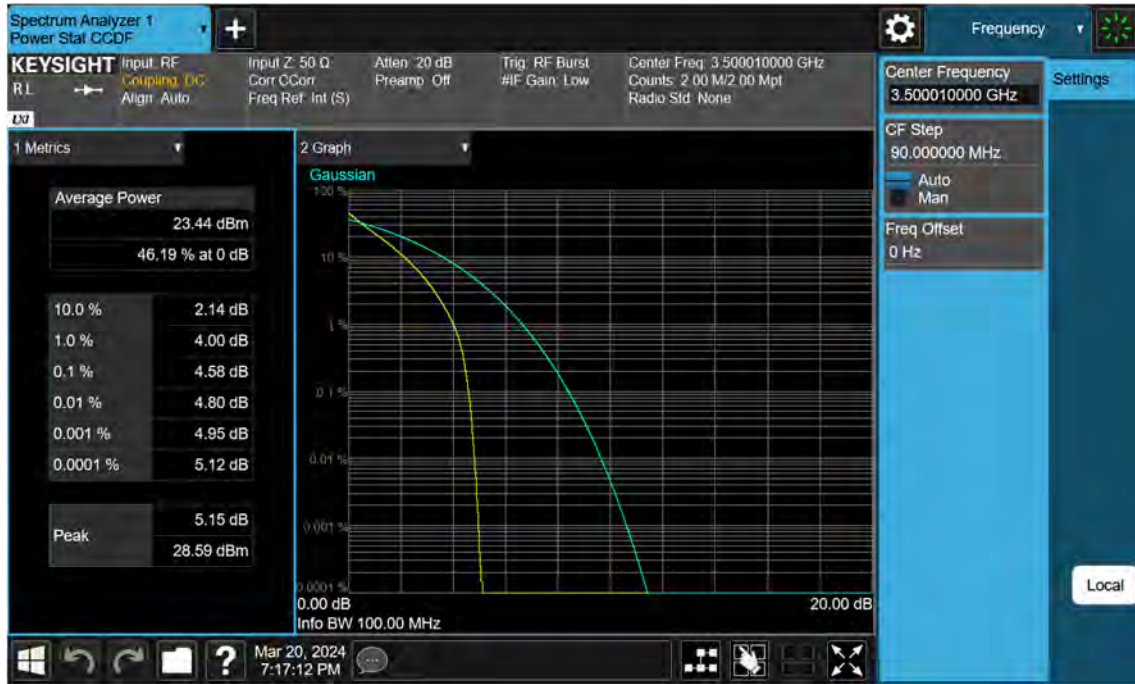
n77(3450~3550 MHz)_90 M_PAR_Mid_64QAM_FullRB



n77(3450~3550 MHz)_90 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_100 M_PAR_Mid_BPSK_FullIRB



n77(3450~3550 MHz)_100 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_100 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_100 M_PAR_Mid_64QAM_FullRB



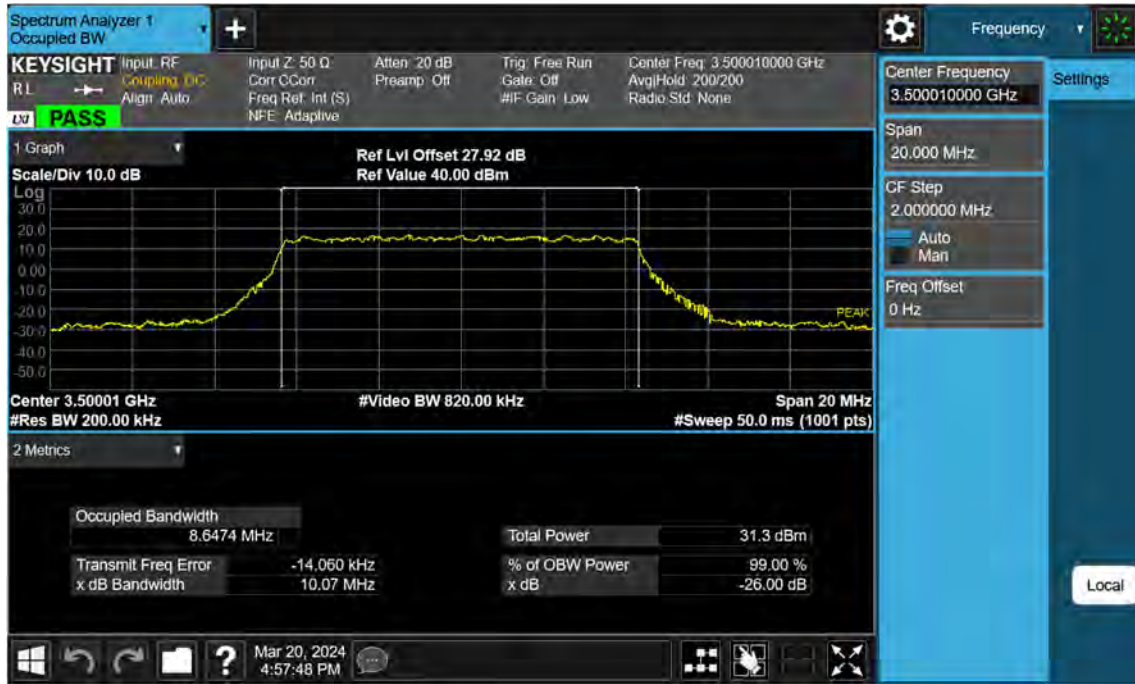
n77(3450~3550 MHz)_100 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_10 M_OBW_Mid_BPSK_FullIRB



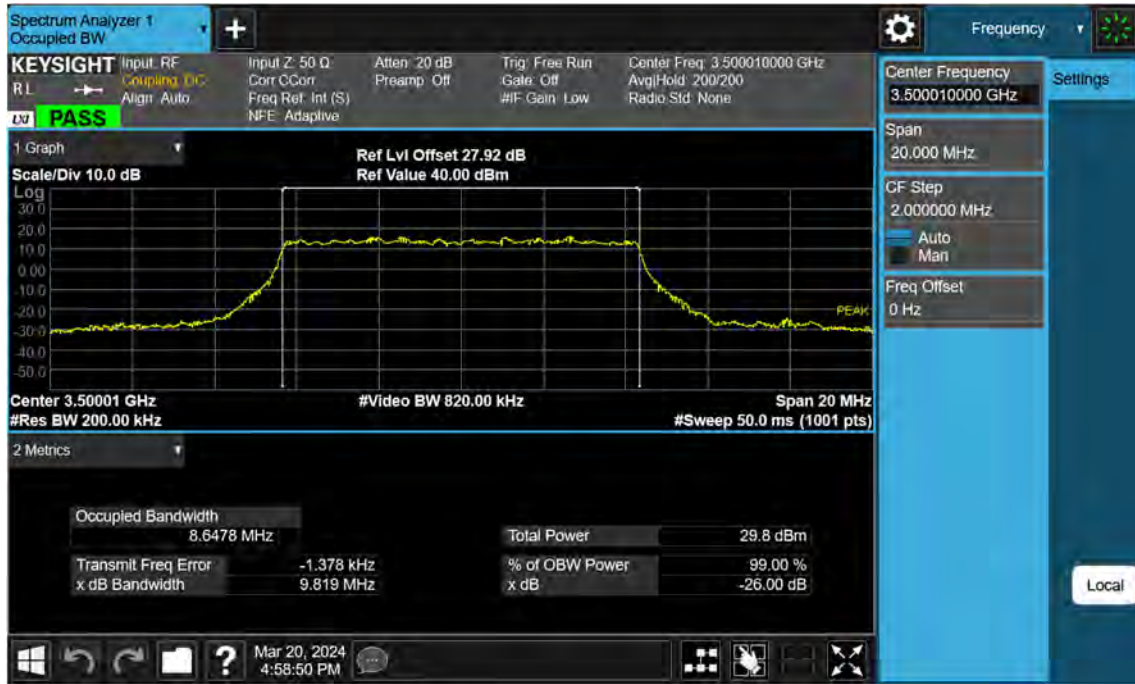
n77(3450~3550 MHz)_10 M_OBW_Mid_QPSK_FullRB



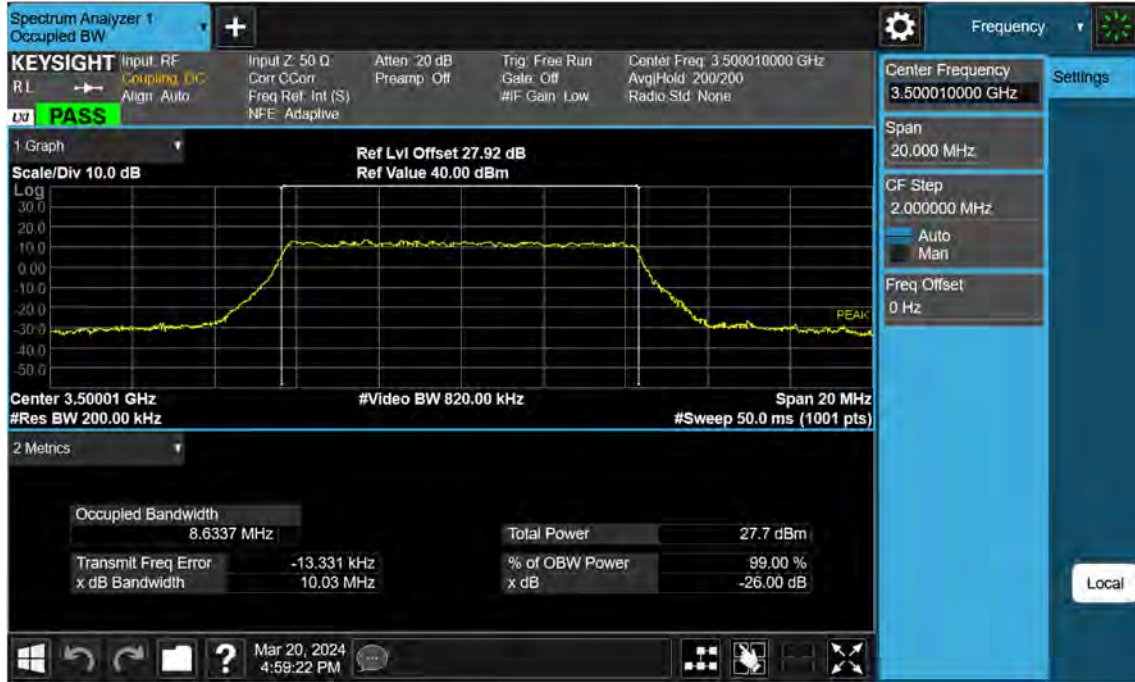
n77(3450~3550 MHz)_10 M_OBW_Mid_16QAM_FullRB



n77(3450~3550 MHz)_10 M_OBW_Mid_64QAM_FullRB



n77(3450~3550 MHz)_10 M_OBW_Mid_256QAM_FullRB



n77(3450~3550 MHz)_15 M_OBW_Mid_BPSK_FullIRB



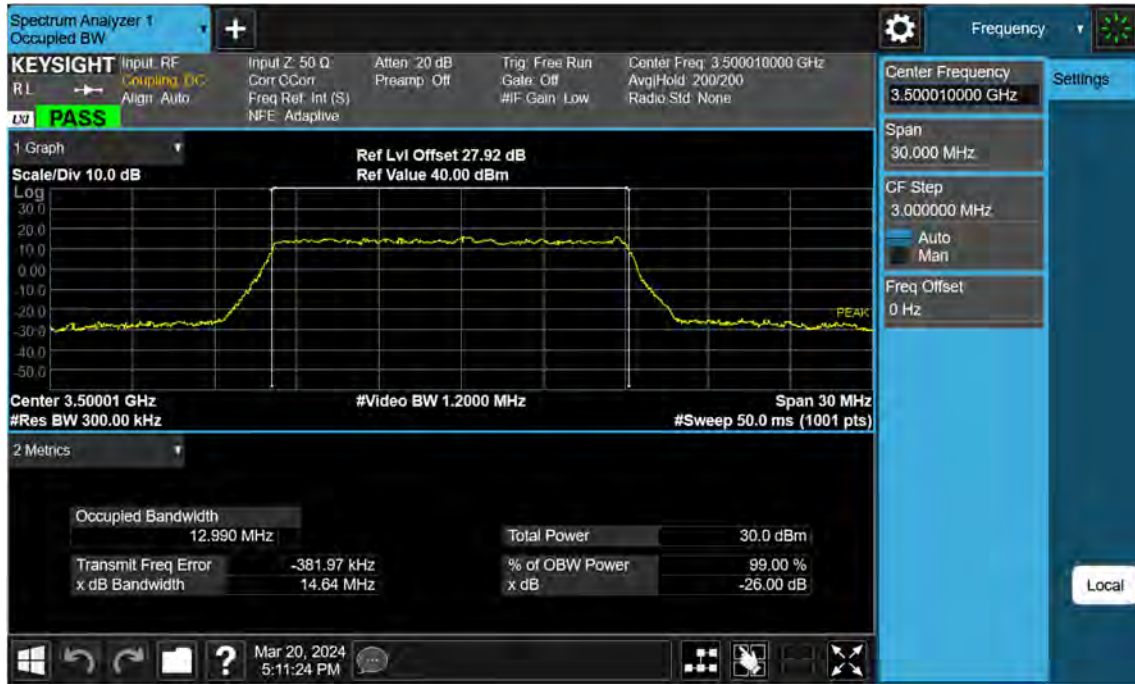
n77(3450~3550 MHz)_15 M_OBW_Mid_QPSK_FullRB



n77(3450~3550 MHz)_15 M_OBW_Mid_16QAM_FullRB



n77(3450~3550 MHz)_15 M_OBW_Mid_64QAM_FullRB



n77(3450~3550 MHz)_15 M_OBW_Mid_256QAM_FullRB



n77(3450~3550 MHz)_20 M_OBW_Mid_BPSK_FullIRB



n77(3450~3550 MHz)_20 M_OBW_Mid_QPSK_FullRB



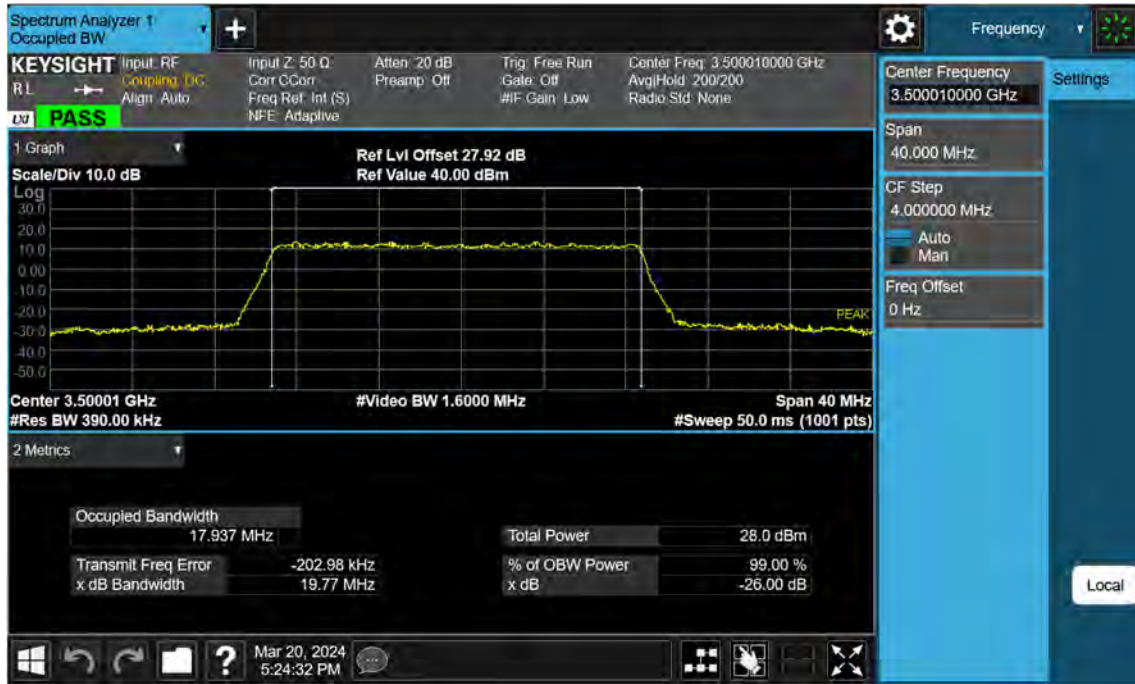
n77(3450~3550 MHz)_20 M_OBW_Mid_16QAM_FullRB



n77(3450~3550 MHz)_20 M_OBW_Mid_64QAM_FullRB



n77(3450~3550 MHz)_20 M_OBW_Mid_256QAM_FullRB



n77(3450~3550 MHz)_25 M_OBW_Mid_BPSK_FullIRB



n77(3450~3550 MHz)_25 M_OBW_Mid_QPSK_FullRB



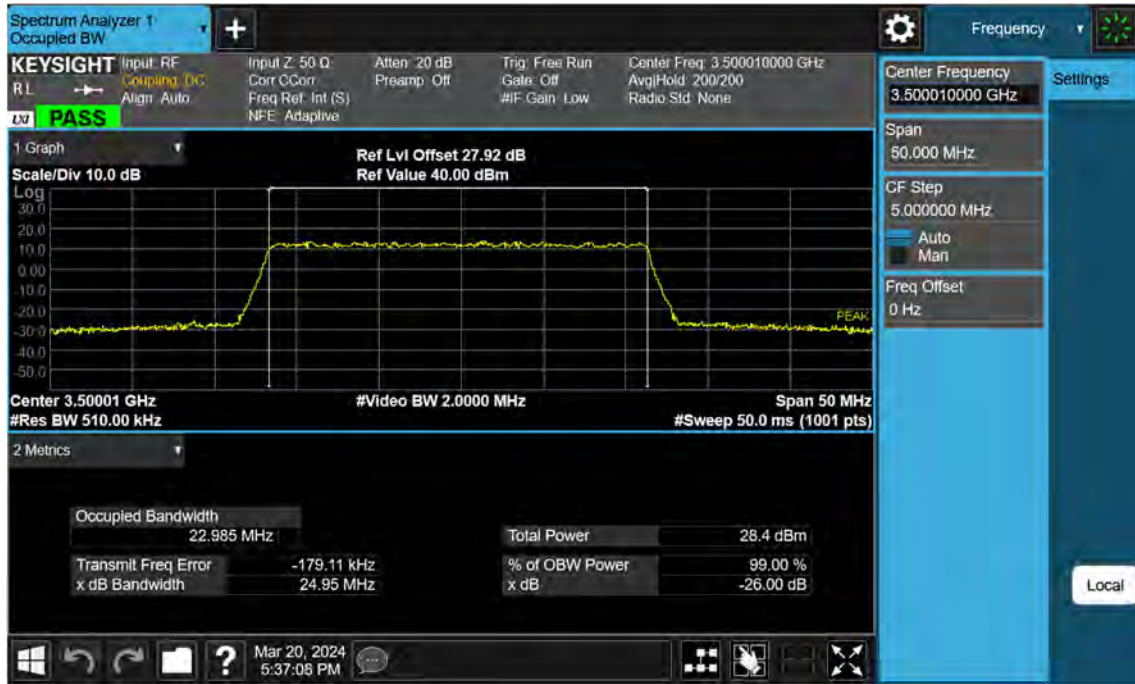
n77(3450~3550 MHz)_25 M_OBW_Mid_16QAM_FullRB



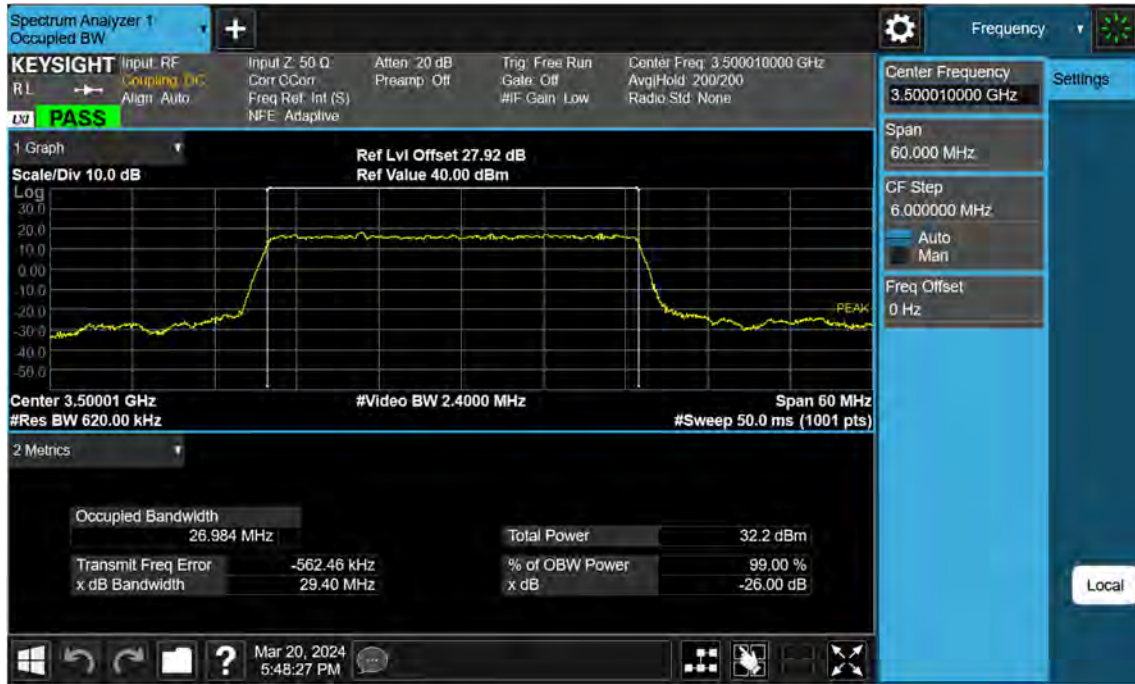
n77(3450~3550 MHz)_25 M_OBW_Mid_64QAM_FullRB



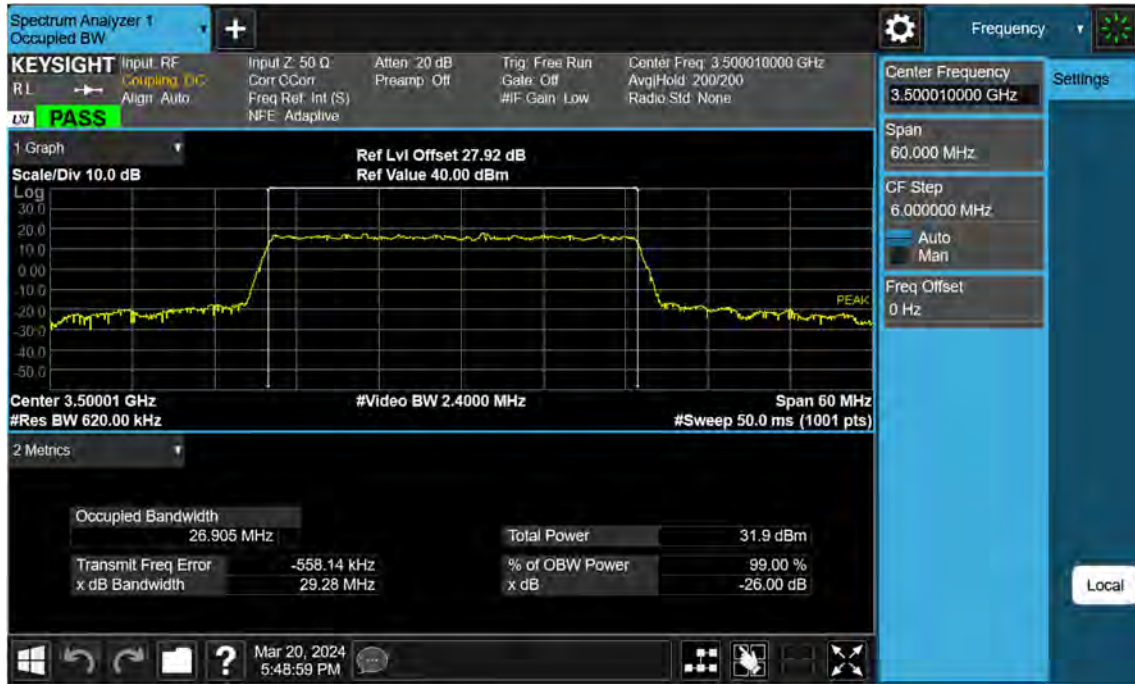
n77(3450~3550 MHz)_25 M_OBW_Mid_256QAM_FullRB



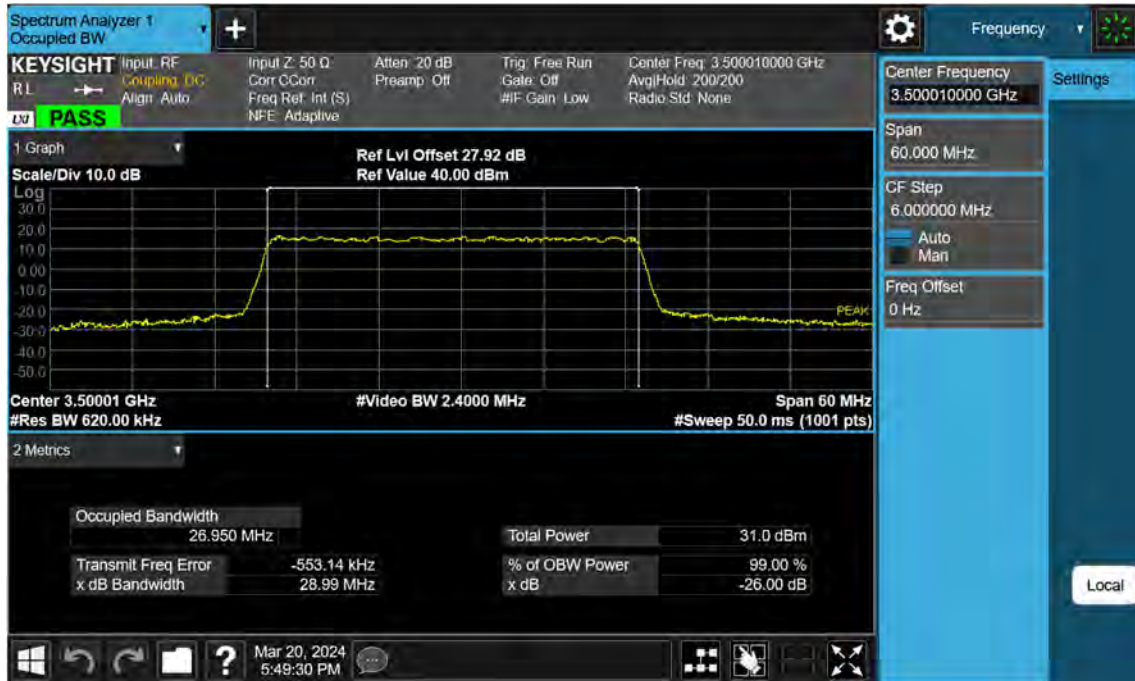
n77(3450~3550 MHz)_30 M_OBW_Mid_BPSK_FullRB



n77(3450~3550 MHz)_30 M_OBW_Mid_QPSK_FullRB



n77(3450~3550 MHz)_30 M_OBW_Mid_16QAM_FullRB



n77(3450~3550 MHz)_30 M_OBW_Mid_64QAM_FullRB



n77(3450~3550 MHz)_30 M_OBW_Mid_256QAM_FullRB



n77(3450~3550 MHz)_40 M_OBW_Mid_BPSK_FullIRB



n77(3450~3550 MHz)_40 M_OBW_Mid_QPSK_FullRB



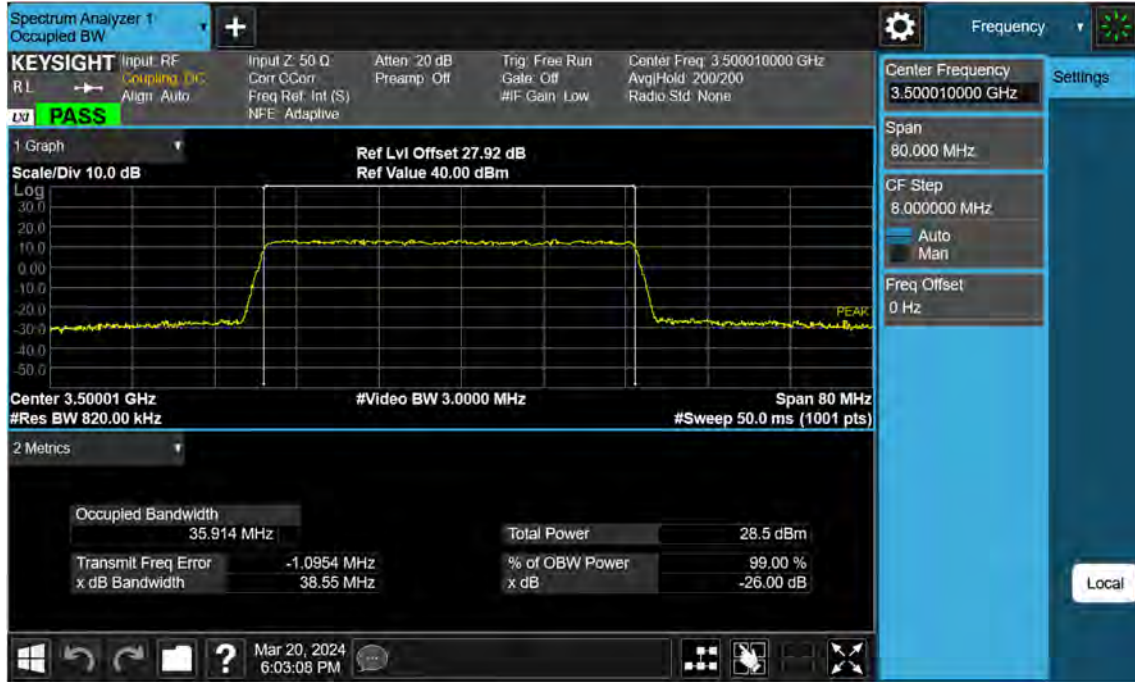
n77(3450~3550 MHz)_40 M_OBW_Mid_16QAM_FullRB



n77(3450~3550 MHz)_40 M_OBW_Mid_64QAM_FullRB



n77(3450~3550 MHz)_40 M_OBW_Mid_256QAM_FullRB



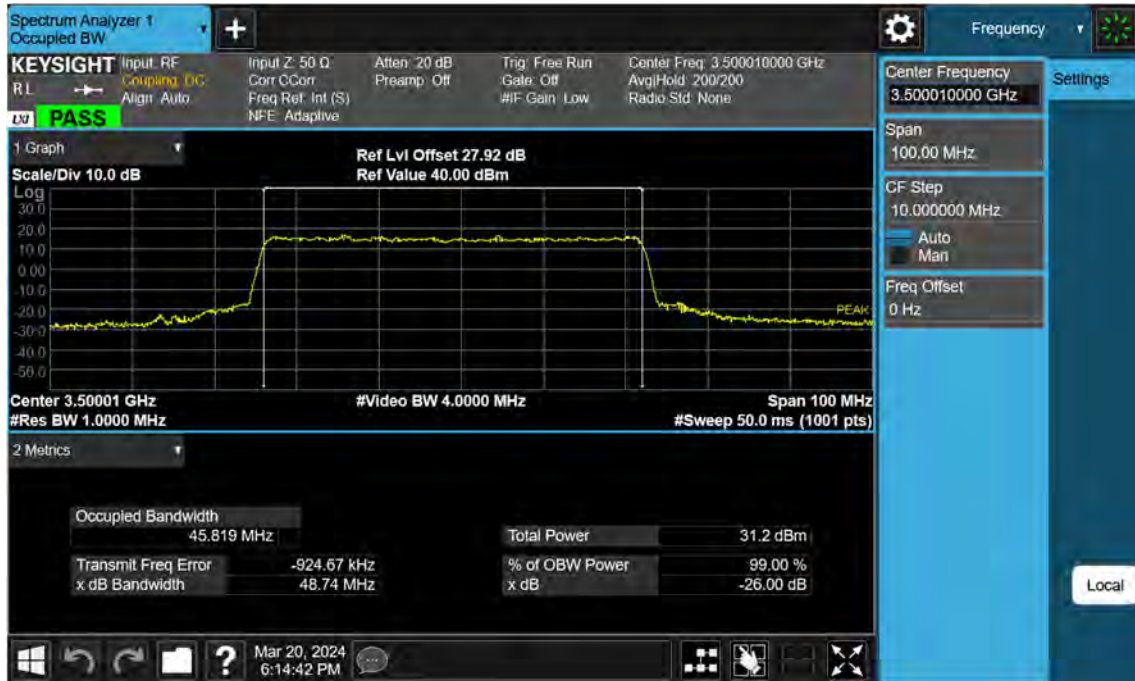
n77(3450~3550 MHz)_50 M_OBW_Mid_BPSK_FullIRB



n77(3450~3550 MHz)_50 M_OBW_Mid_QPSK_FullRB



n77(3450~3550 MHz)_50 M_OBW_Mid_16QAM_FullRB



n77(3450~3550 MHz)_50 M_OBW_Mid_64QAM_FullRB



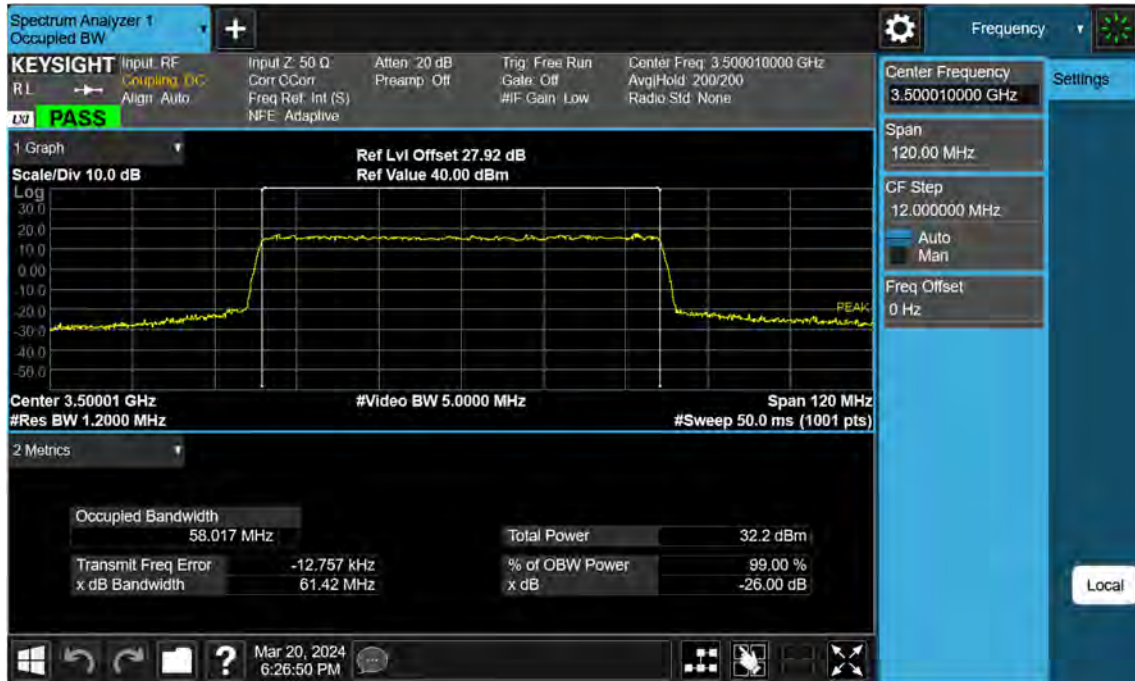
n77(3450~3550 MHz)_50 M_OBW_Mid_256QAM_FullRB



n77(3450~3550 MHz)_60 M_OBW_Mid_BPSK_FullIRB



n77(3450~3550 MHz)_60 M_OBW_Mid_QPSK_FullRB



n77(3450~3550 MHz)_60 M_OBW_Mid_16QAM_FullRB



n77(3450~3550 MHz)_60 M_OBW_Mid_64QAM_FullRB



n77(3450~3550 MHz)_60 M_OBW_Mid_256QAM_FullRB



n77(3450~3550 MHz)_70 M_OBW_Mid_BPSK_FullIRB



n77(3450~3550 MHz)_70 M_OBW_Mid_QPSK_FullRB



n77(3450~3550 MHz)_70 M_OBW_Mid_16QAM_FullRB



n77(3450~3550 MHz)_70 M_OBW_Mid_64QAM_FullRB



n77(3450~3550 MHz)_70 M_OBW_Mid_256QAM_FullRB



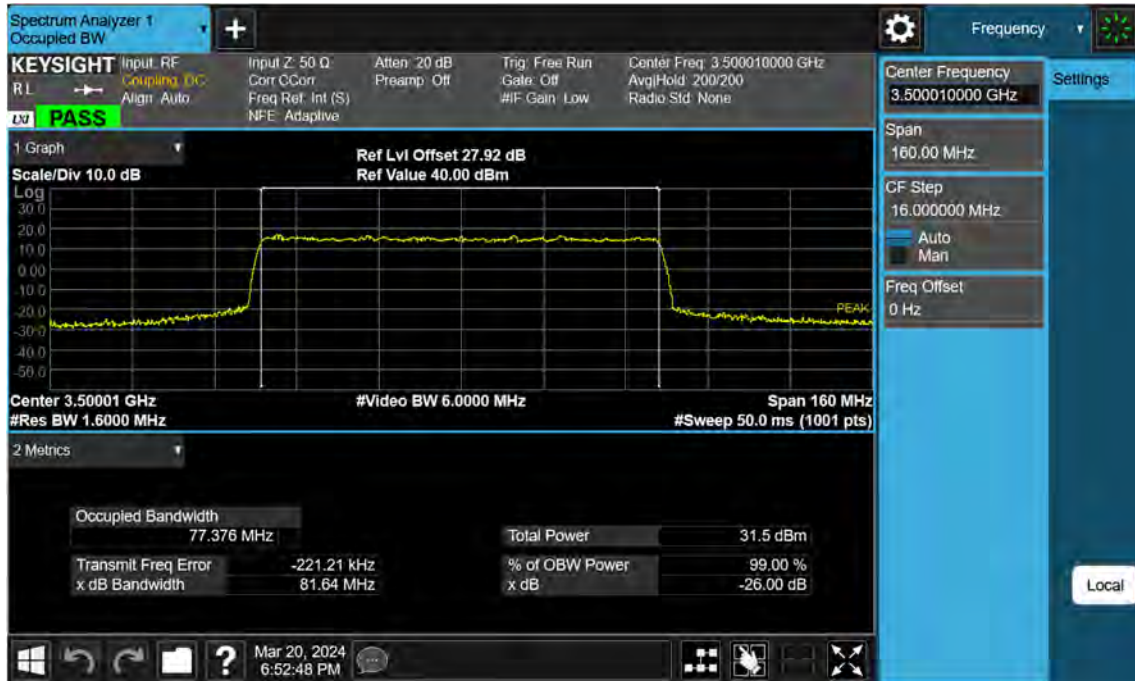
n77(3450~3550 MHz)_80 M_OBW_Mid_BPSK_FullIRB



n77(3450~3550 MHz)_80 M_OBW_Mid_QPSK_FullRB



n77(3450~3550 MHz)_80 M_OBW_Mid_16QAM_FullRB



n77(3450~3550 MHz)_80 M_OBW_Mid_64QAM_FullRB



n77(3450~3550 MHz)_80 M_OBW_Mid_256QAM_FullRB



n77(3450~3550 MHz)_90 M_OBW_Mid_BPSK_FullIRB



n77(3450~3550 MHz)_90 M_OBW_Mid_QPSK_FullRB



n77(3450~3550 MHz)_90 M_OBW_Mid_16QAM_FullRB



n77(3450~3550 MHz)_90 M_OBW_Mid_64QAM_FullRB



n77(3450~3550 MHz)_90 M_OBW_Mid_256QAM_FullRB



n77(3450~3550 MHz)_100 M_OBW_Mid_BPSK_FullRB



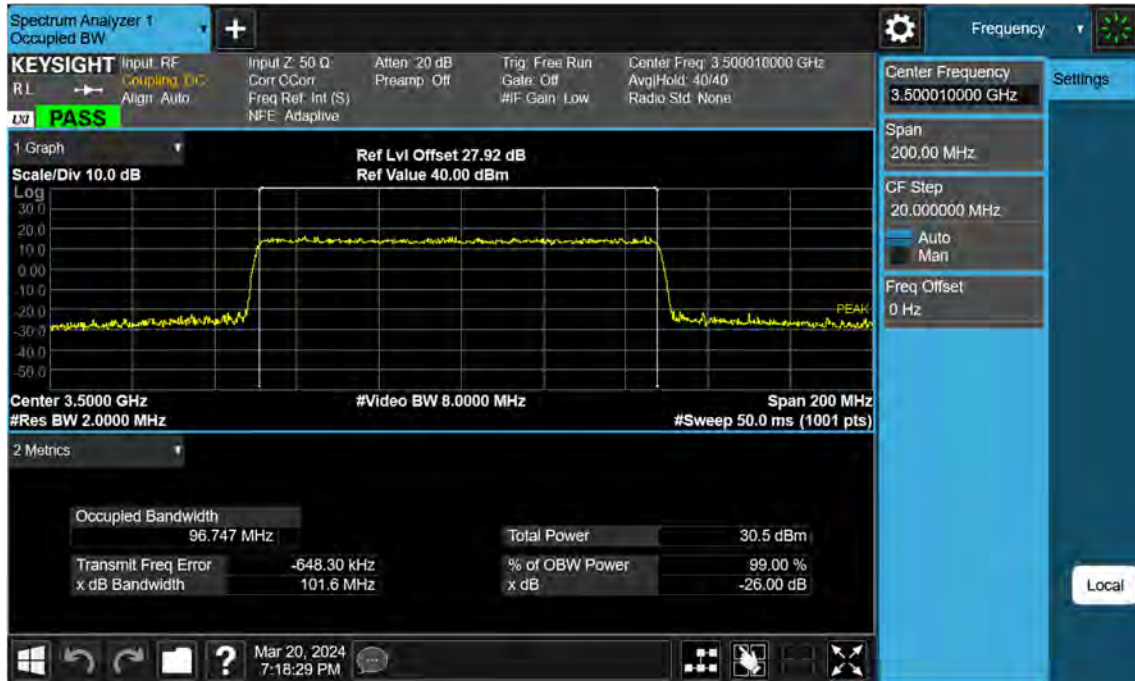
n77(3450~3550 MHz)_100 M_OBW_Mid_QPSK_FullRB



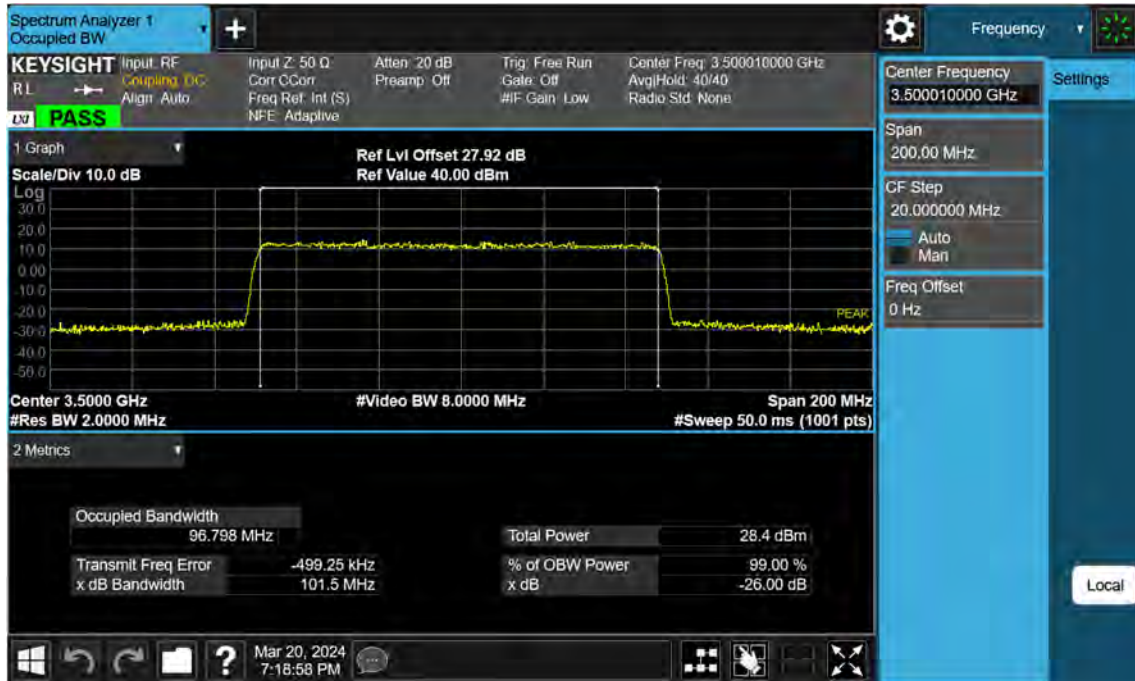
n77(3450~3550 MHz)_100 M_OBW_Mid_16QAM_FullRB



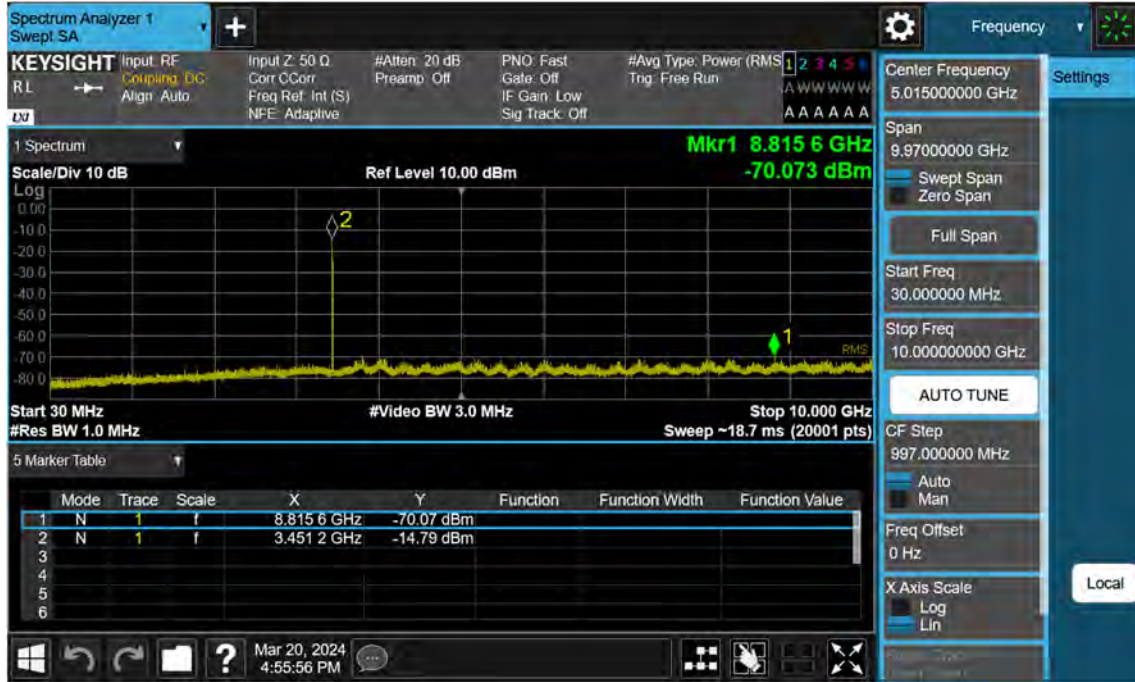
n77(3450~3550 MHz)_100 M_OBW_Mid_64QAM_FullRB



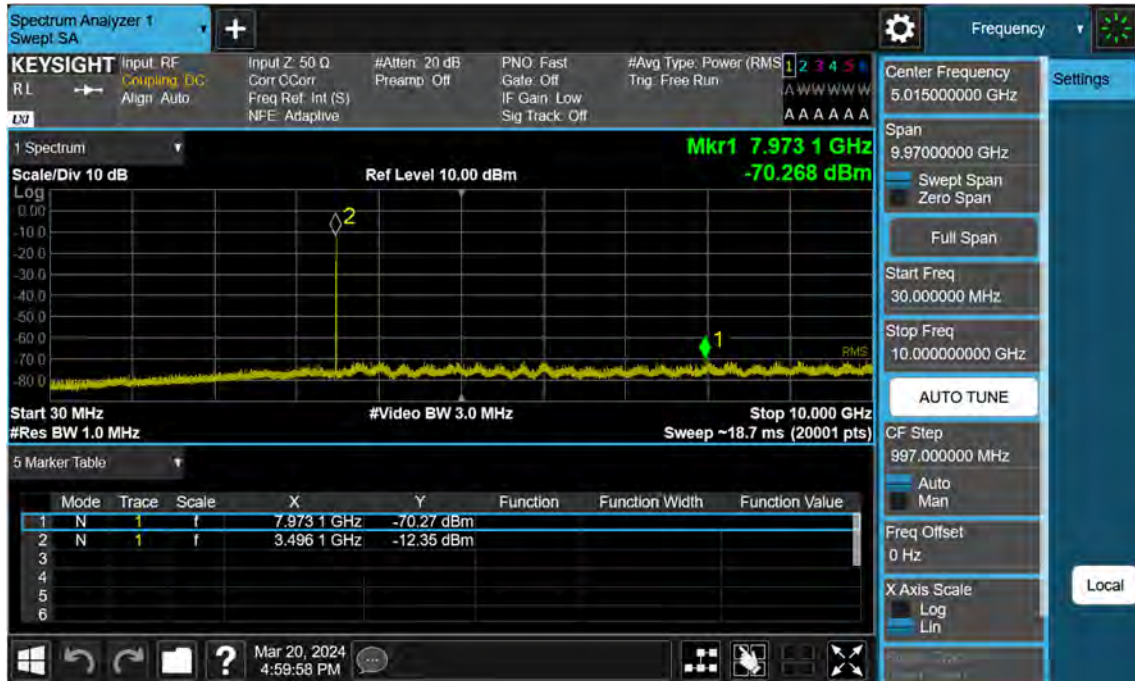
n77(3450~3550 MHz)_100 M_OBW_Mid_256QAM_FullRB



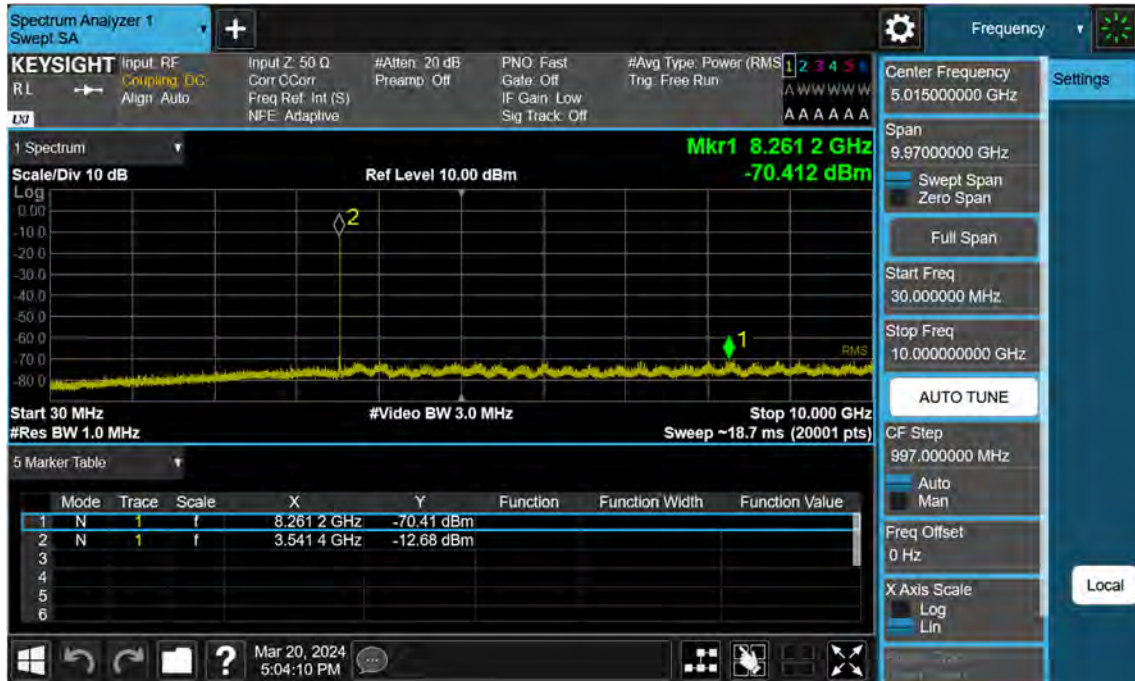
n77(3450~3550 MHz)_10 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB



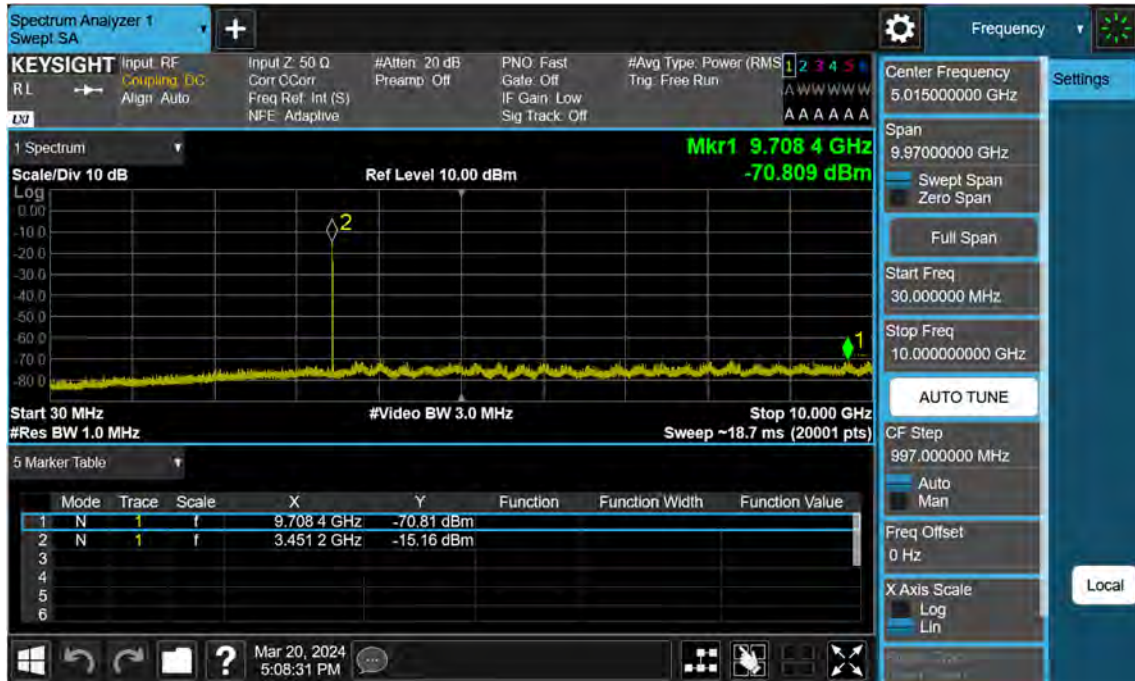
n77(3450~3550 MHz)_10 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB



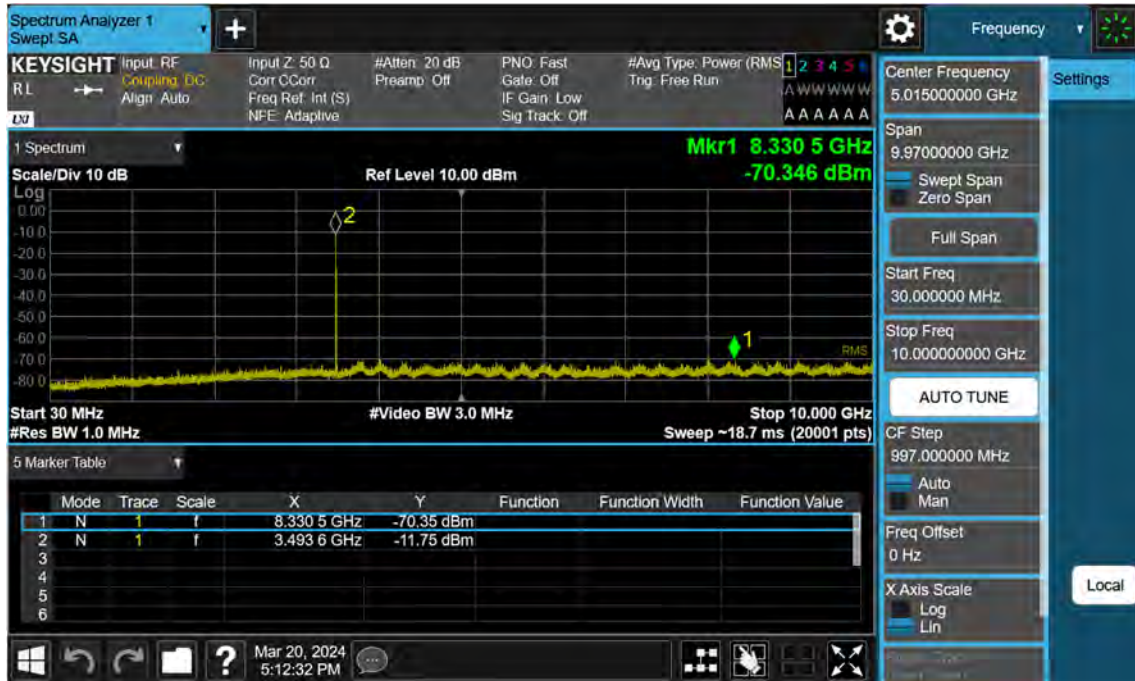
n77(3450~3550 MHz)_10 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB



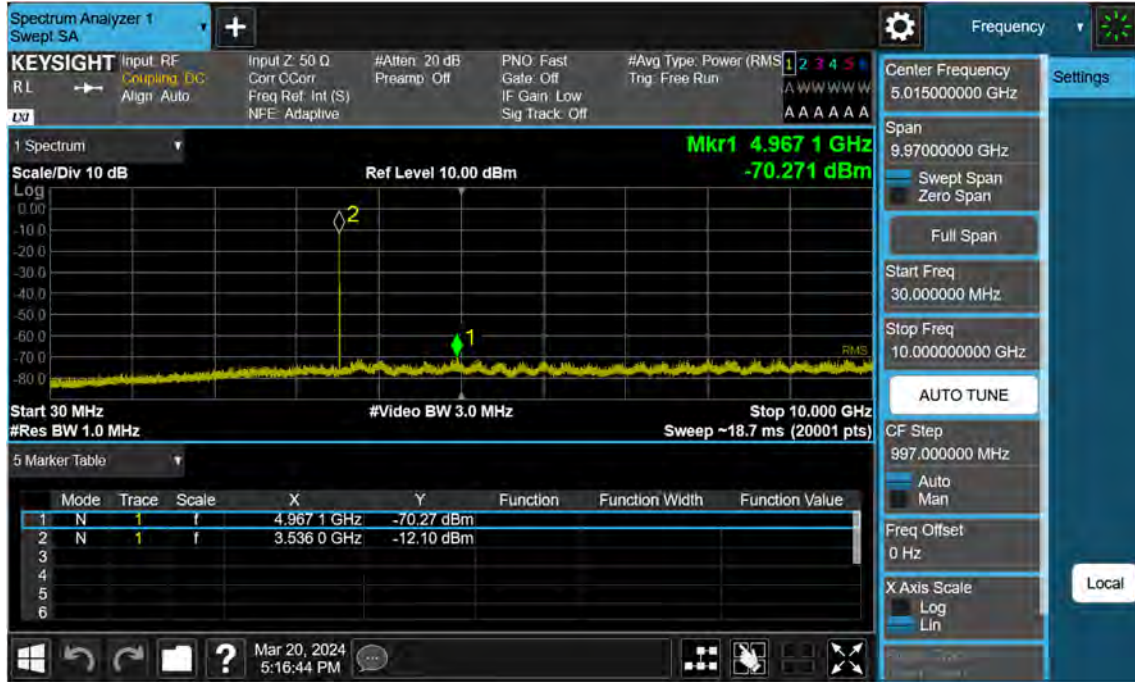
n77(3450~3550 MHz)_15 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB



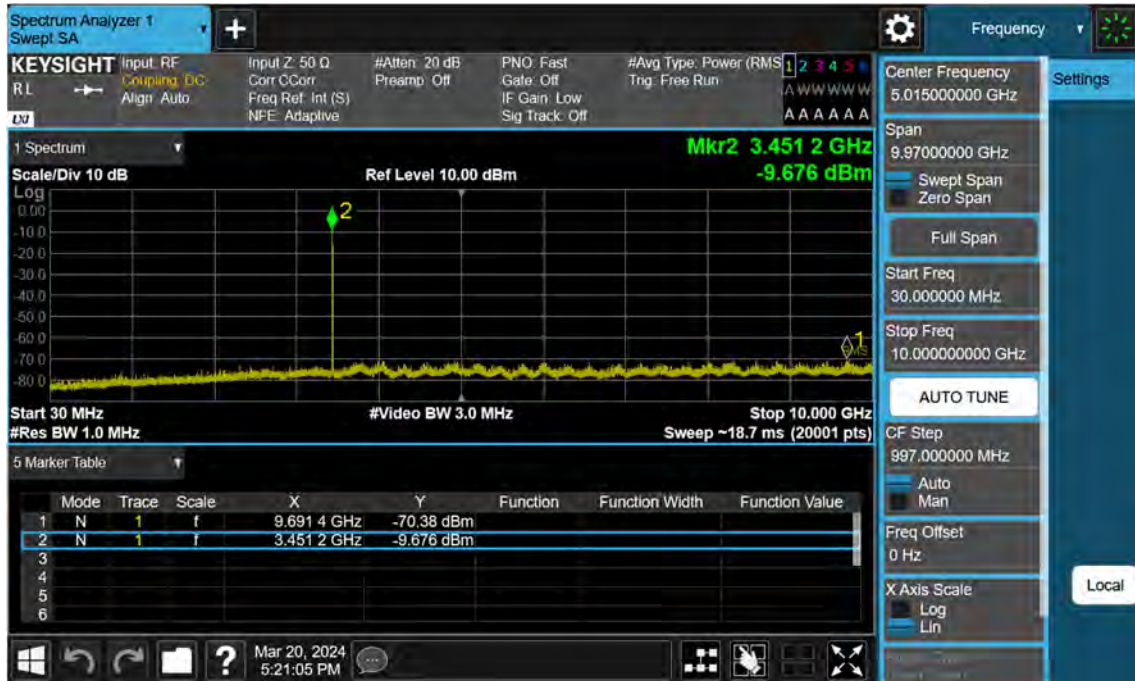
n77(3450~3550 MHz)_15 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB



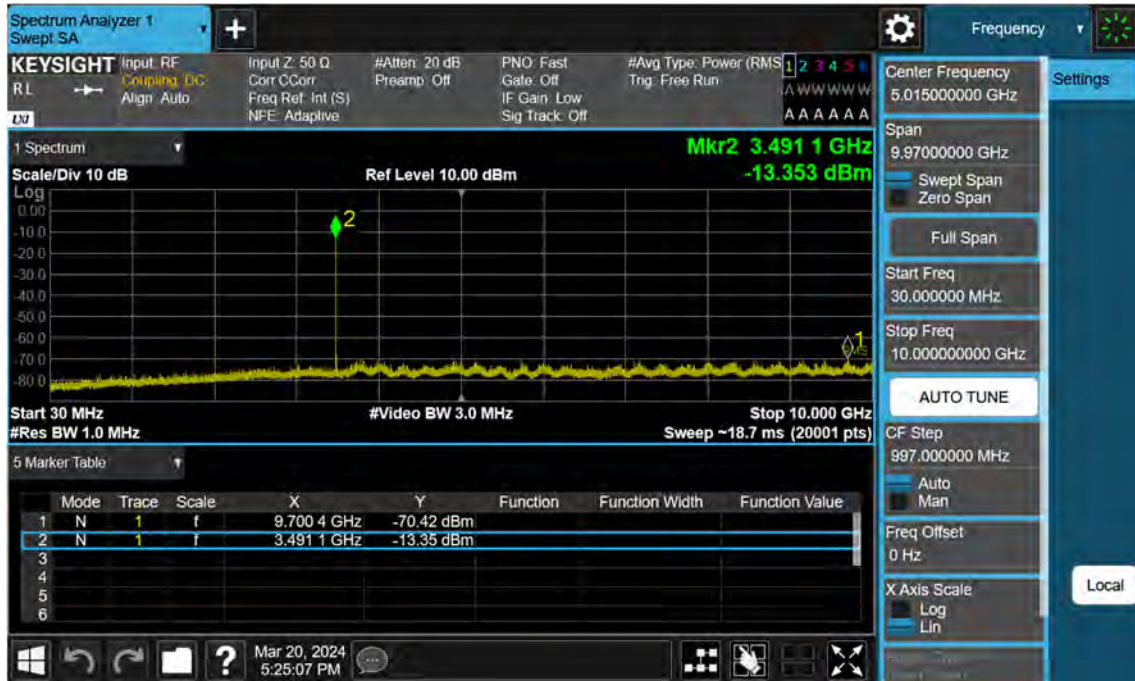
n77(3450~3550 MHz)_15 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB



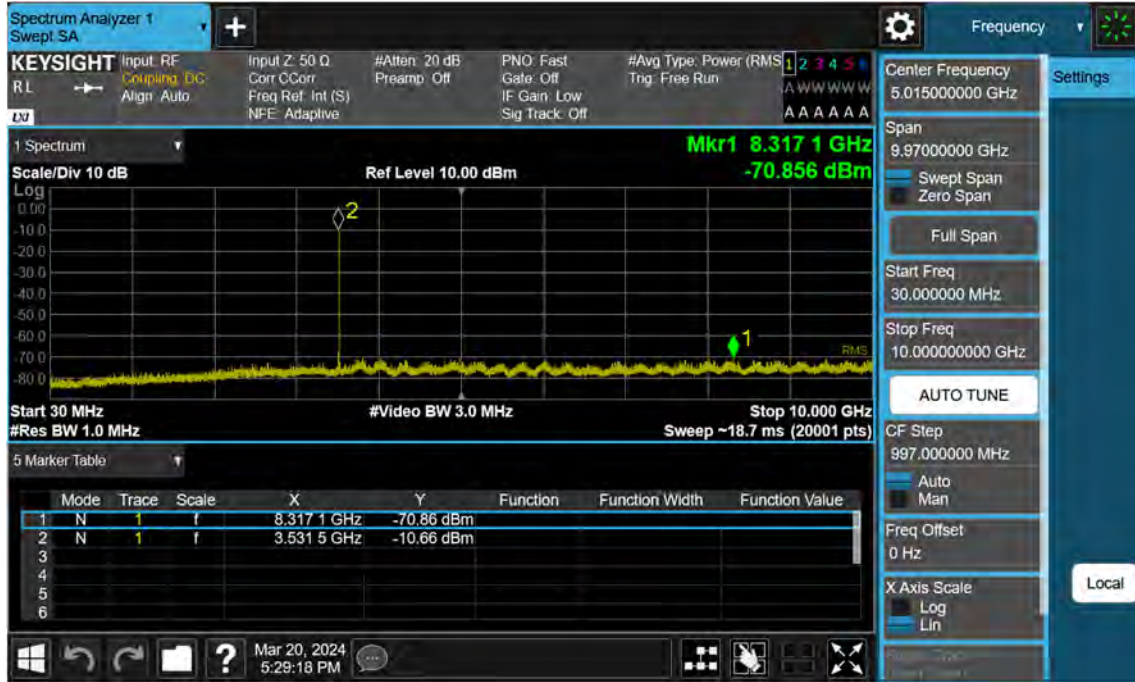
n77(3450~3550 MHz)_20 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB



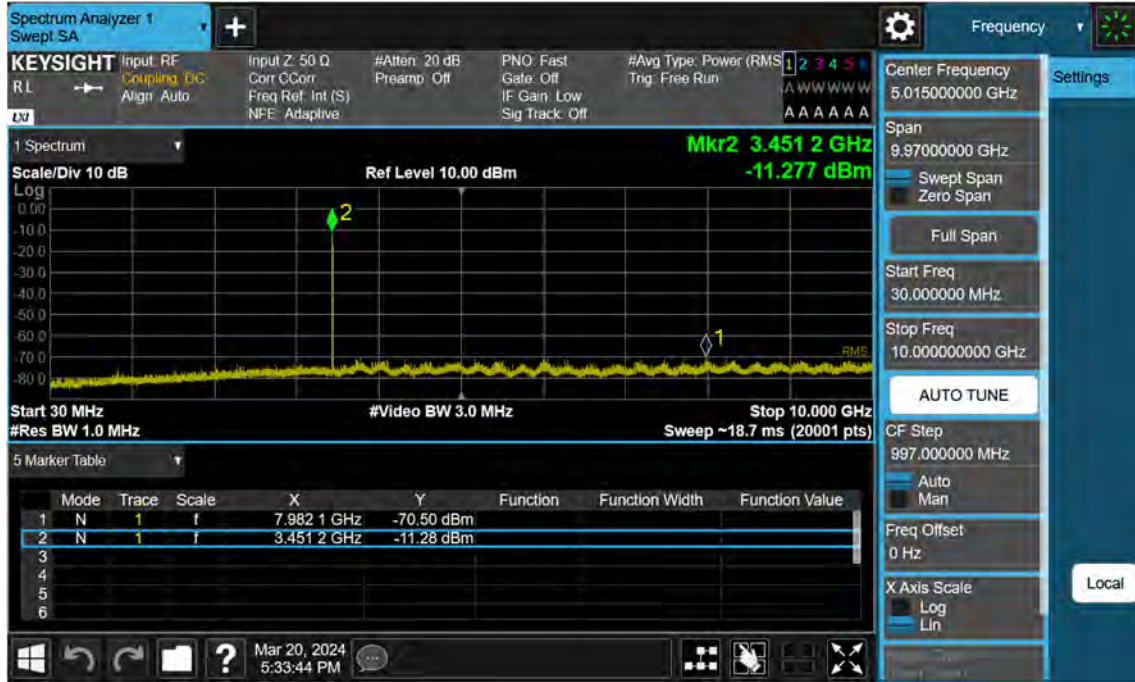
n77(3450~3550 MHz)_20 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB



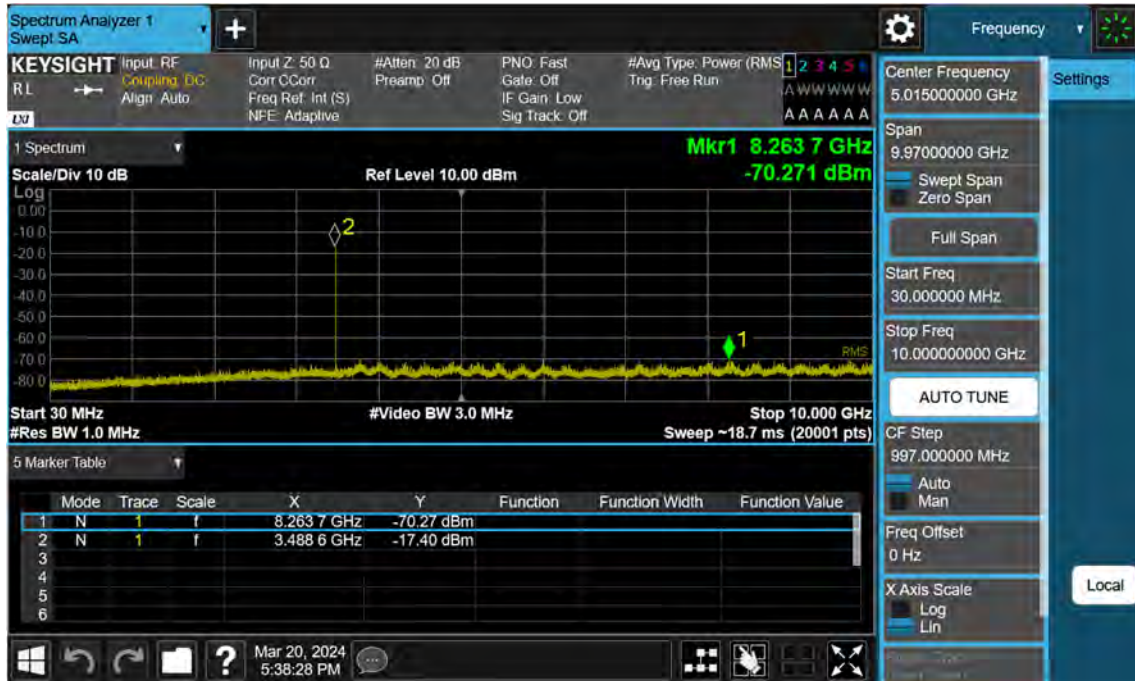
n77(3450~3550 MHz)_20 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB



n77(3450~3550 MHz)_25 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB



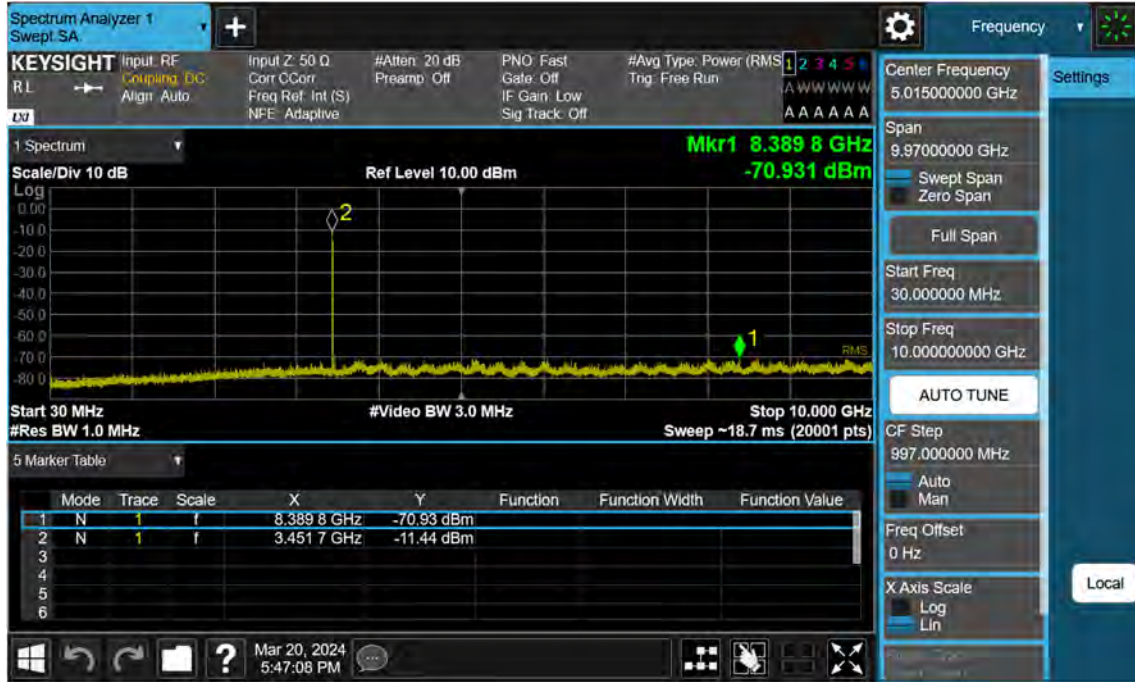
n77(3450~3550 MHz)_25 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB



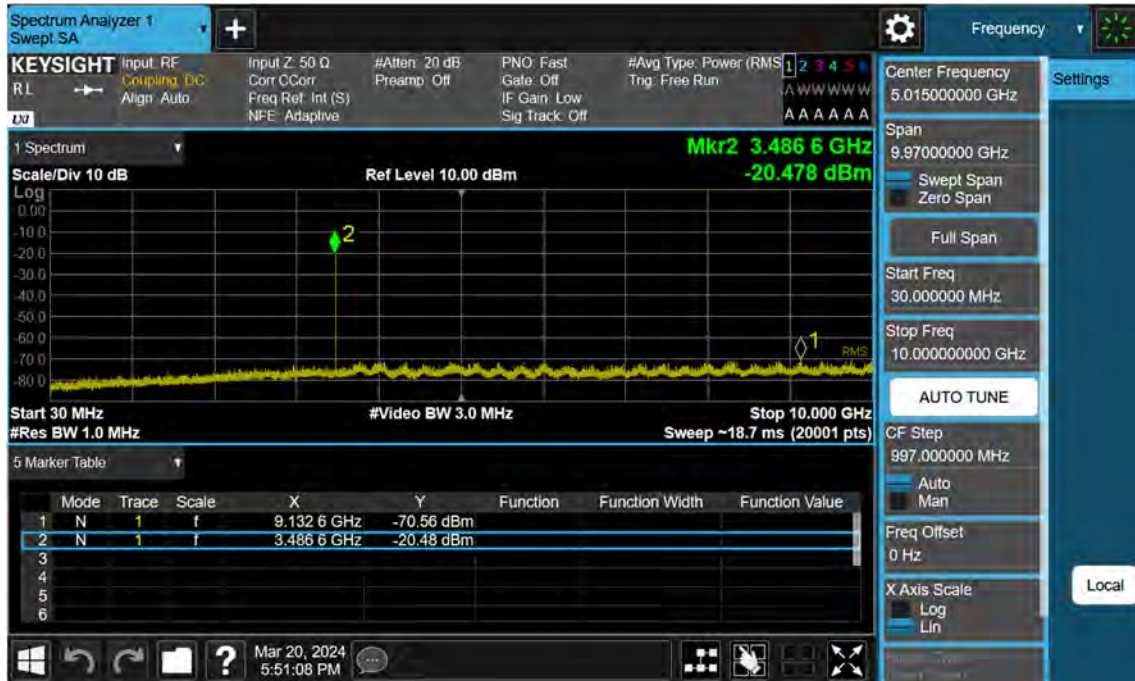
n77(3450~3550 MHz)_25 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB



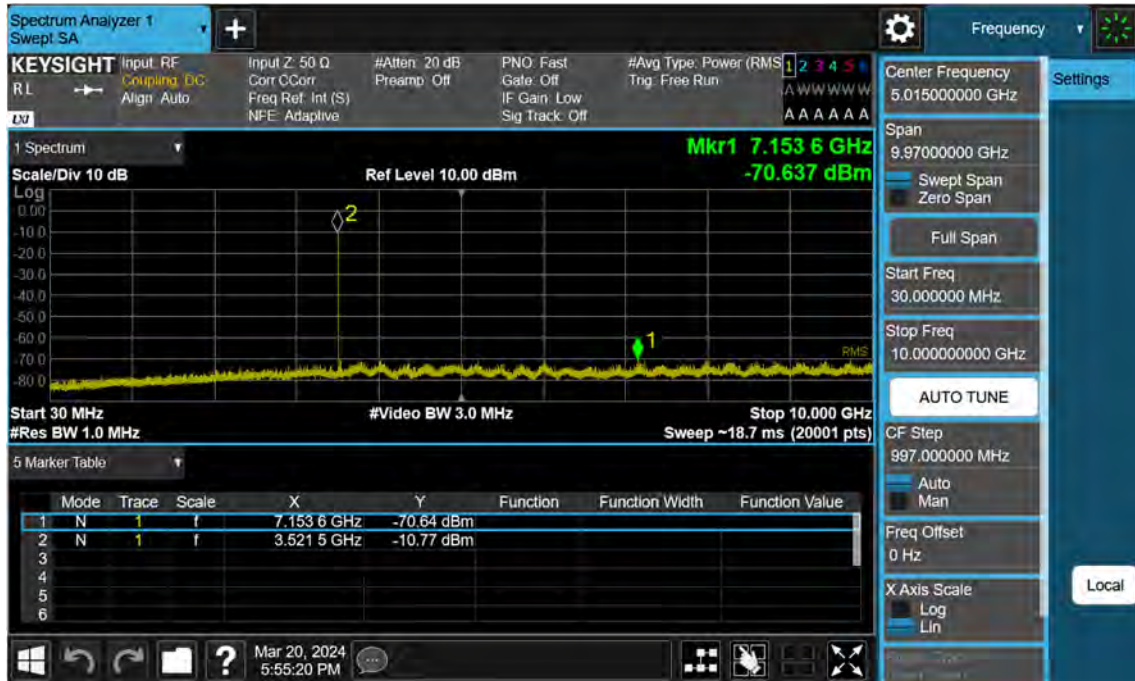
n77(3450~3550 MHz)_30 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB



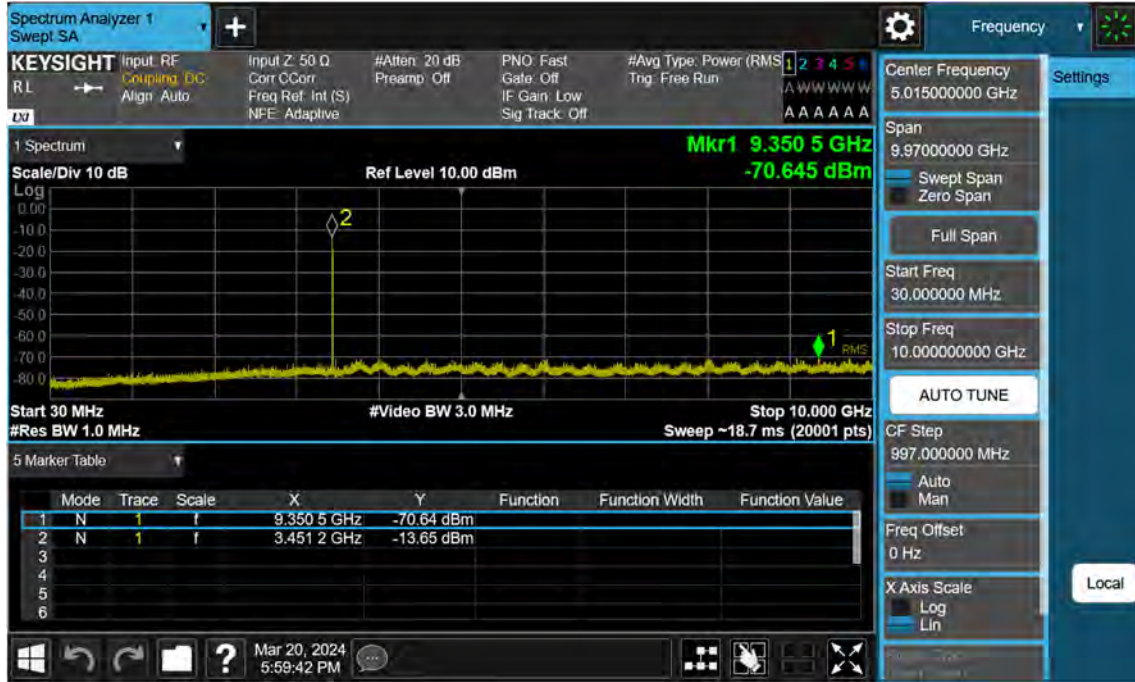
n77(3450~3550 MHz)_30 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB



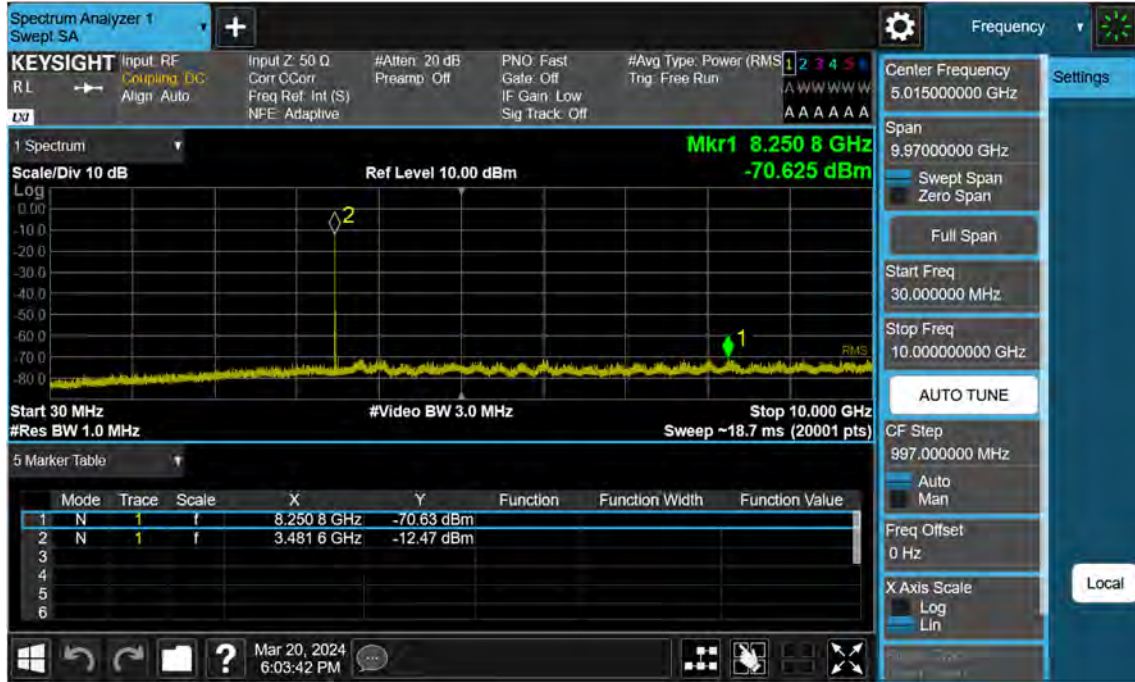
n77(3450~3550 MHz)_30 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB



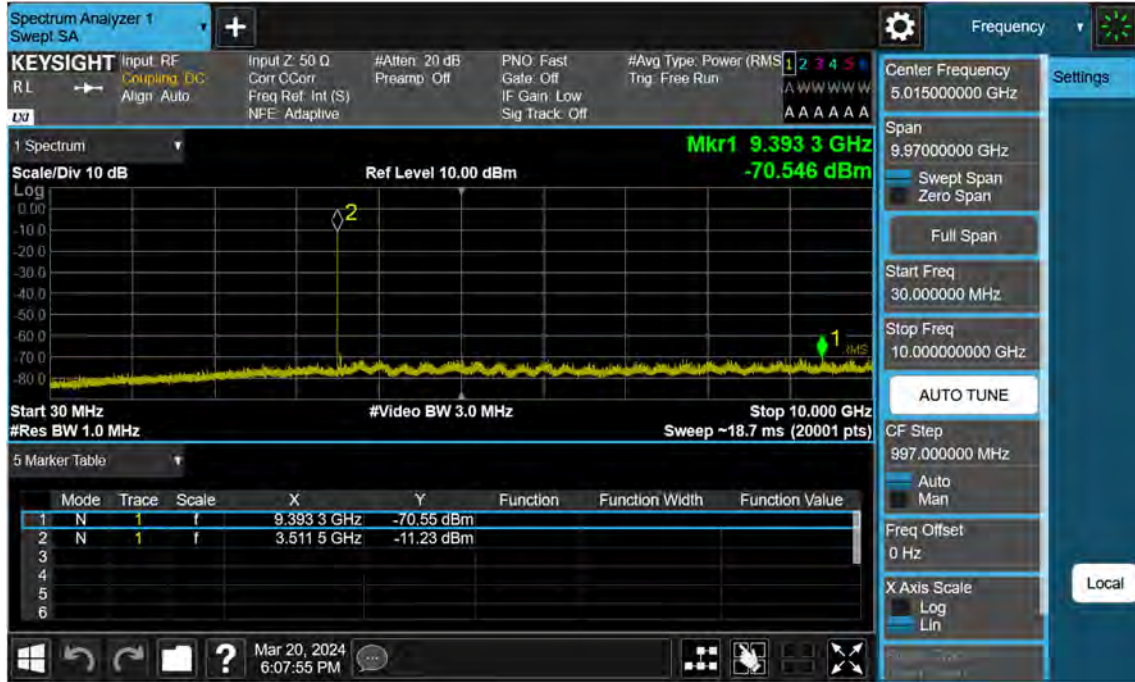
n77(3450~3550 MHz)_40 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB



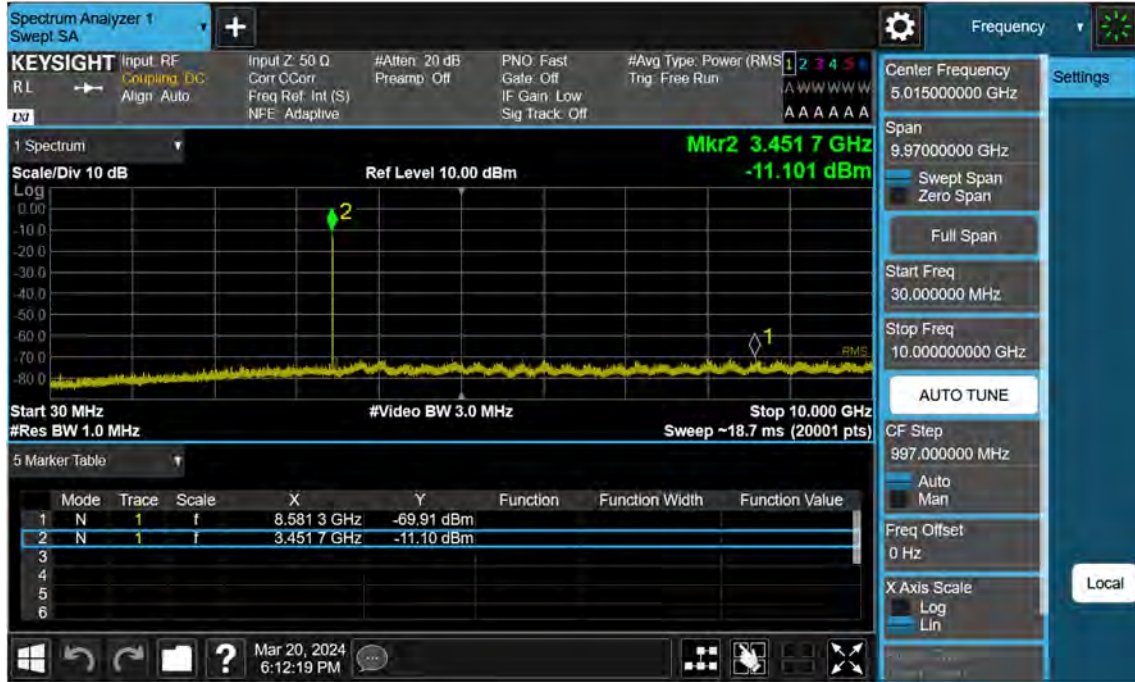
n77(3450~3550 MHz)_40 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB



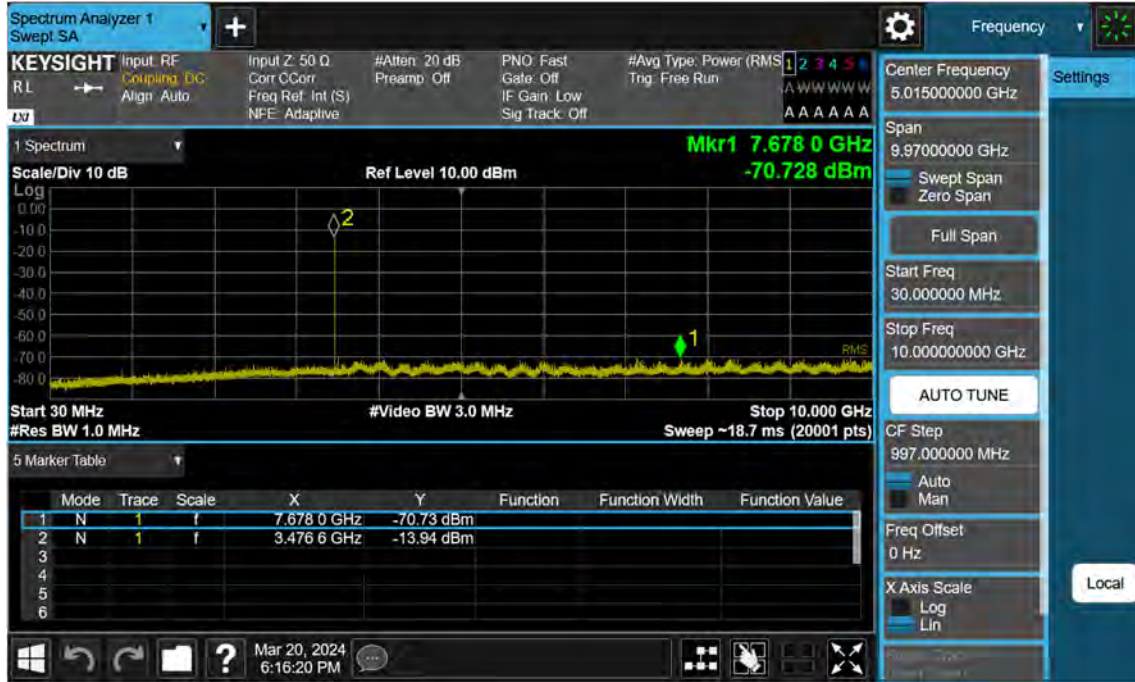
n77(3450~3550 MHz)_40 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB



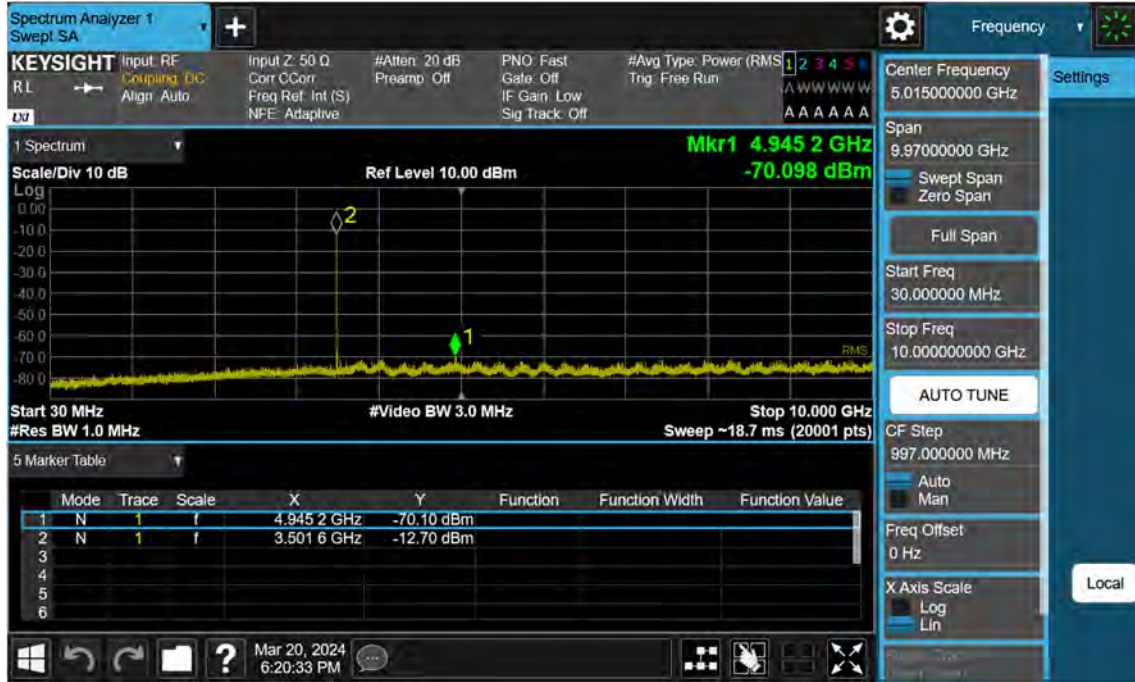
n77(3450~3550 MHz)_50 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB



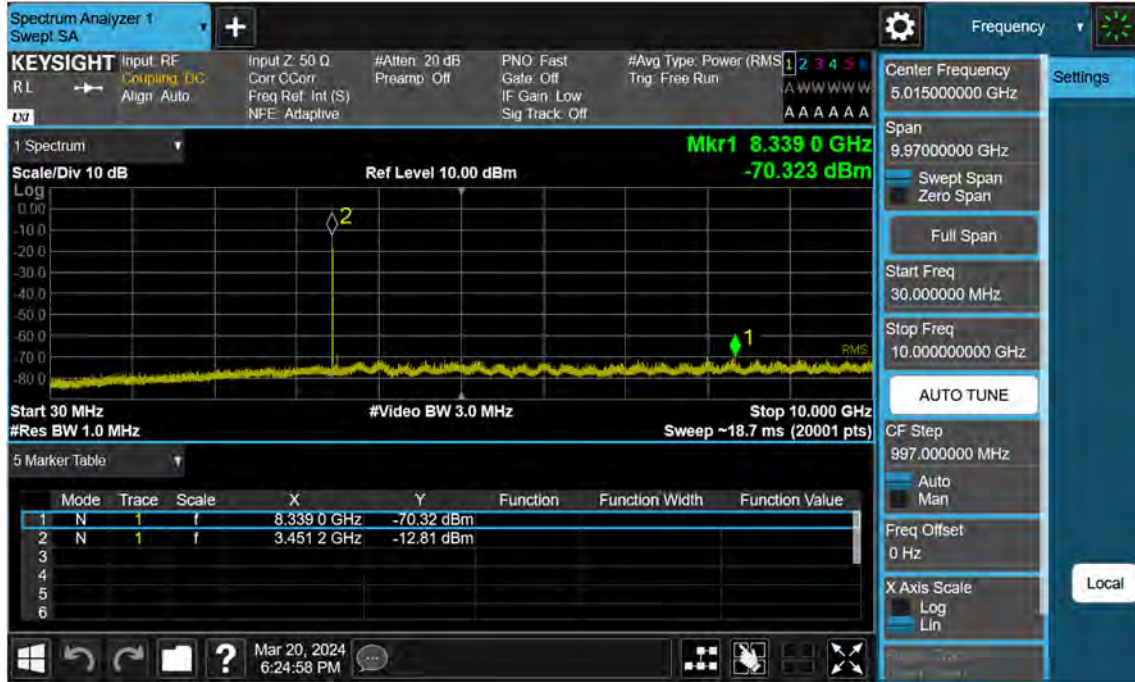
n77(3450~3550 MHz)_50 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB



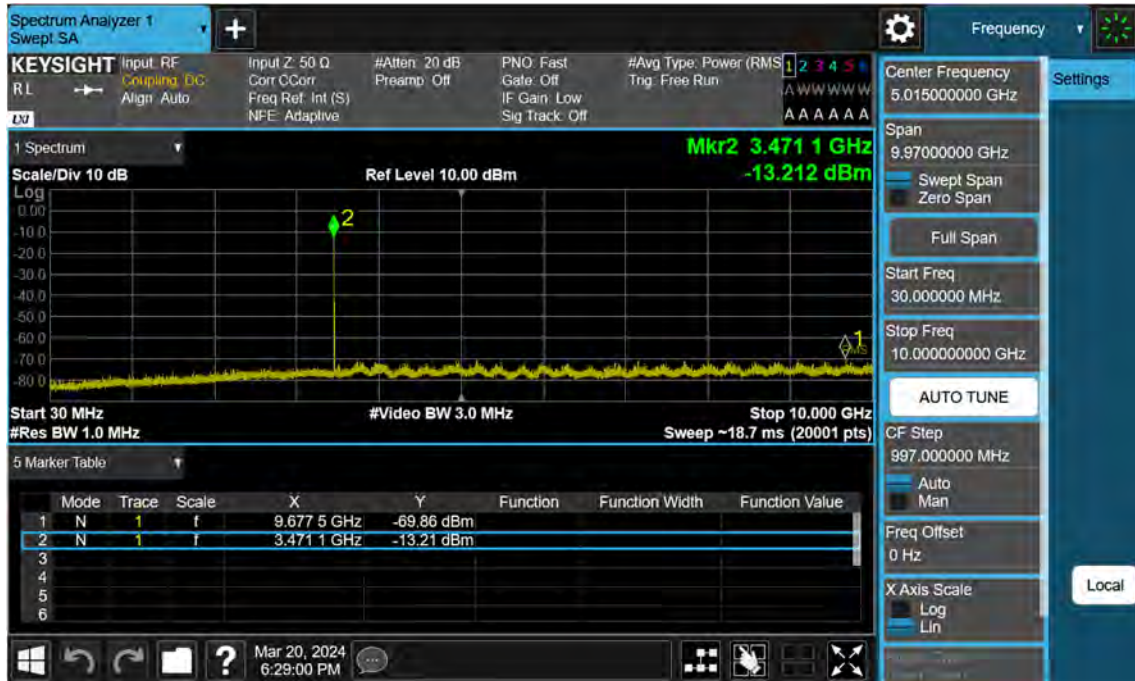
n77(3450~3550 MHz)_50 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB



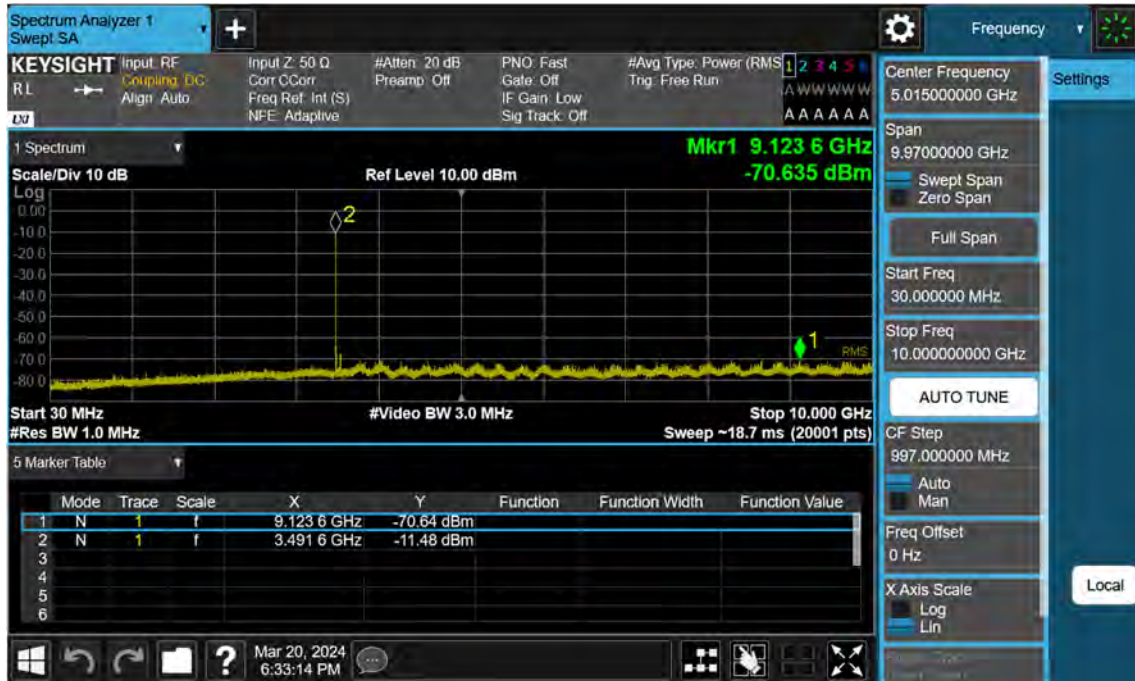
n77(3450~3550 MHz)_60 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB



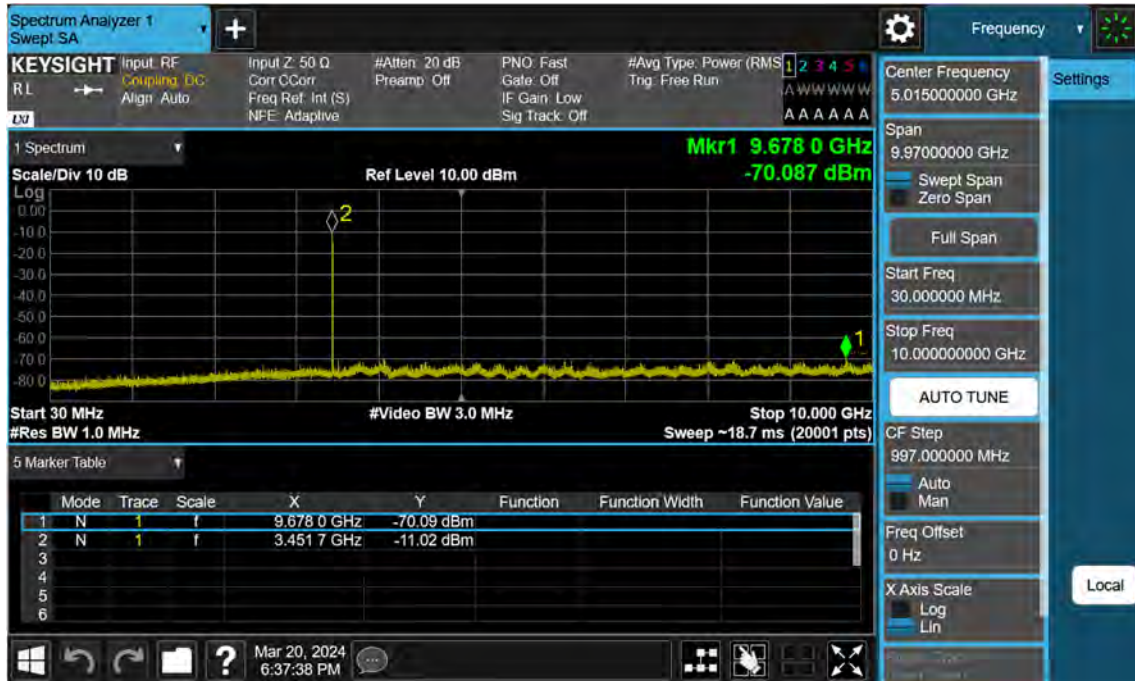
n77(3450~3550 MHz)_60 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB



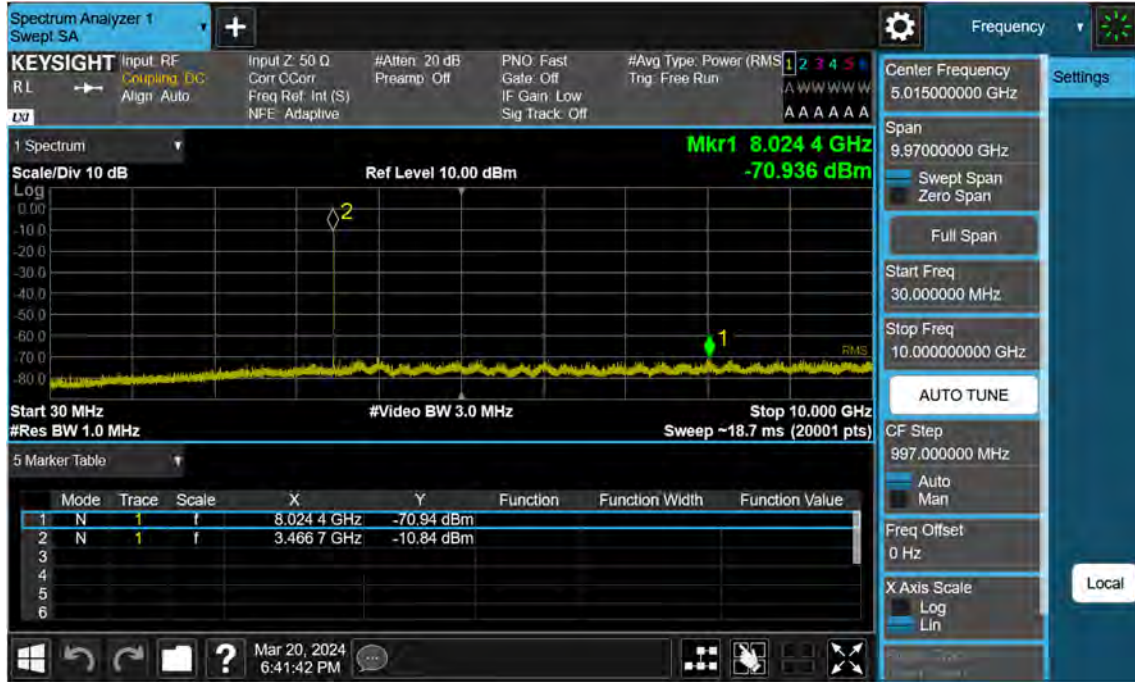
n77(3450~3550 MHz)_60 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB



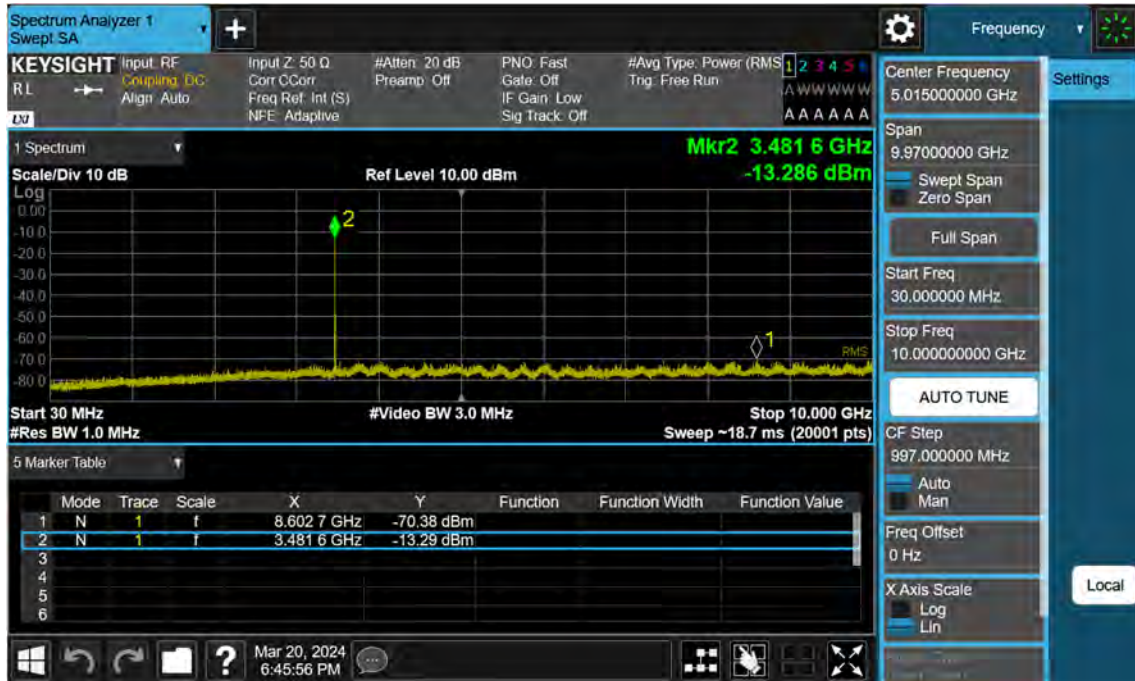
n77(3450~3550 MHz)_70 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB



n77(3450~3550 MHz)_70 M_Conducted Spurious(30 M-10 G)_Mid_BPSK_FullRB



n77(3450~3550 MHz)_70 M_Conducted Spurious(30 M-10 G)_High_BPSK_1RB



n77(3450~3550 MHz)_80 M_Conducted Spurious(30 M-10 G)_Low_BPSK_1RB

