

TEST REPORT

FCC Sub6 n77(78) Test for SM-S931U
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2410-FC040

DATE OF ISSUE
October 29, 2024

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TEST REPORT

REPORT NO.

HCT-RF-2410-FC040

DATE OF ISSUE

October 29, 2024

Additional Model

SM-S931U1

Applicant

SAMSUNG Electronics Co., Ltd.

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

Product Name
Model Name

Mobile Phone
SM-S931U

Date of Test

August 26, 2024 ~ October 28, 2024

FCC ID

A3LSMS931U

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)

Test Standard Used

FCC Rule Part: § 27

Test Results

PASS

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	October 29, 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).

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

Information provided by the applicant is marked **.

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

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

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

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	SAMSUNG Electronics Co., Ltd.
Address:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
FCC ID:	A3LSMS931U
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter Held to Ear (PCE)
FCC Rule Part(s):	§ 27
EUT Type:	Mobile phone
Model(s):	SM-S931U
Additional Model(s)	SM-S931U1
SCS(kHz):	30
Bandwidth(MHz):	10, 15, 20, 25, 30, 40, 50, 60, 70, 80, 90, 100
Waveform:	CP-OFDM, DFT-S-OFDM
Modulation:	DFT-S-OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM
Tx Frequency: (3450 MHz - 3550 MHz)	3455.01 MHz – 3544.99 MHz (Sub6 n77(78)(10 MHz)) 3457.50 MHz – 3542.50 MHz (Sub6 n77(78)(15 MHz)) 3460.02 MHz – 3540.00 MHz (Sub6 n77(78)(20 MHz)) 3462.50 MHz – 3537.50 MHz (Sub6 n77(78)(25 MHz)) 3465.00 MHz – 3534.99 MHz (Sub6 n77(78)(30 MHz)) 3470.01 MHz – 3529.98 MHz (Sub6 n77(78)(40 MHz)) 3475.02 MHz – 3525.00 MHz (Sub6 n77(78)(50 MHz)) 3480.00 MHz – 3519.99 MHz (Sub6 n77(78)(60 MHz)) 3485.01 MHz – 3514.98 MHz (Sub6 n77(78)(70 MHz)) 3490.02 MHz – 3510.00 MHz (Sub6 n77(78)(80 MHz)) 3495.00 MHz – 3504.99 MHz (Sub6 n77(78)(90 MHz)) 3500.01 MHz (Sub6 n77(78)(100 MHz))
Tx Frequency: (3700 MHz - 3980 MHz)	3705.00 MHz – 3975.00 MHz (Sub6 n77(78)(10 MHz)) 3707.51 MHz – 3972.48 MHz (Sub6 n77(78)(15 MHz)) 3710.01 MHz – 3969.99 MHz (Sub6 n77(78)(20 MHz)) 3712.50 MHz – 3967.50 MHz (Sub6 n77(78)(25 MHz)) 3715.02 MHz – 3964.98 MHz (Sub6 n77(78)(30 MHz)) 3720.00 MHz – 3960.00 MHz (Sub6 n77(78)(40 MHz)) 3725.10 MHz – 3954.99 MHz (Sub6 n77(78)(50 MHz)) 3730.02 MHz – 3949.98 MHz (Sub6 n77(78)(60 MHz)) 3735.00 MHz – 3945.00 MHz (Sub6 n77(78)(70 MHz)) 3740.01 MHz – 3939.99 MHz (Sub6 n77(78)(80 MHz)) 3745.02 MHz – 3934.98 MHz (Sub6 n77(78)(90 MHz)) 3745.02 MHz – 3934.98 MHz (Sub6 n77(78)(90 MHz)) 3750.00 MHz – 3930.00 MHz (Sub6 n77(78)(100 MHz))
Date(s) of Tests:	August 26, 2024 ~ October 28, 2024
Serial number:	Radiated : R3CXA0930CK (3450 MHz - 3550 MHz), R3CX80BGBQR (3700 MHz - 3980 MHz) Conducted : R3CX70H9JQN

1.1. MAXIMUM OUTPUT POWER

1. 3450 MHz - 3550 MHz

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n77(78) (10)	3455.01 – 3544.99	8M61G7D	PI/2 BPSK	0.406	26.09
		8M68G7D	QPSK	0.399	26.01
		8M63W7D	16QAM	0.308	24.89
		8M64W7D	64QAM	0.229	23.59
		8M77W7D	256QAM	0.135	21.31
Sub6 n77(78) (15)	3457.50 – 3542.50	13M0G7D	PI/2 BPSK	0.408	26.11
		13M1G7D	QPSK	0.402	26.04
		13M0W7D	16QAM	0.305	24.85
		12M9W7D	64QAM	0.227	23.56
		13M0W7D	256QAM	0.135	21.31
Sub6 n77(78) (20)	3460.02 – 3540.00	18M0G7D	PI/2 BPSK	0.404	26.06
		18M0G7D	QPSK	0.396	25.98
		17M9W7D	16QAM	0.301	24.78
		17M9W7D	64QAM	0.226	23.55
		18M0W7D	256QAM	0.133	21.25
Sub6 n77(78) (25)	3462.50 – 3537.50	23M0G7D	PI/2 BPSK	0.413	26.16
		23M1G7D	QPSK	0.407	26.10
		23M0W7D	16QAM	0.310	24.91
		23M0W7D	64QAM	0.233	23.68
		22M9W7D	256QAM	0.139	21.43
Sub6 n77(78) (30)	3465.00 – 3534.99	27M0G7D	PI/2 BPSK	0.410	26.13
		26M9G7D	QPSK	0.404	26.06
		27M0W7D	16QAM	0.314	24.97
		27M0W7D	64QAM	0.231	23.63
		27M0W7D	256QAM	0.134	21.28
Sub6 n77(78) (40)	3470.01 – 3529.98	35M9G7D	PI/2 BPSK	0.419	26.22
		35M9G7D	QPSK	0.405	26.07
		35M9W7D	16QAM	0.316	24.99
		35M8W7D	64QAM	0.226	23.55
		35M8W7D	256QAM	0.137	21.38
Sub6 n77(78) (50)	3475.02 – 3525.00	46M1G7D	PI/2 BPSK	0.444	26.47
		45M9G7D	QPSK	0.434	26.37
		46M0W7D	16QAM	0.335	25.25
		45M8W7D	64QAM	0.241	23.82
		45M9W7D	256QAM	0.146	21.64
Sub6 n77(78) (60)	3480.00 – 3519.99	58M1G7D	PI/2 BPSK	0.419	26.22
		58M1G7D	QPSK	0.413	26.16
		58M0W7D	16QAM	0.320	25.05
		58M1W7D	64QAM	0.237	23.75
		58M2W7D	256QAM	0.142	21.51
Sub6 n77(78) (70)	3485.01 – 3514.98	64M7G7D	PI/2 BPSK	0.445	26.48
		64M4G7D	QPSK	0.428	26.31
		64M5W7D	16QAM	0.327	25.15
		64M5W7D	64QAM	0.239	23.79
		64M6W7D	256QAM	0.144	21.59
Sub6 n77(78) (80)	3490.02 – 3510.00	77M6G7D	PI/2 BPSK	0.452	26.55
		77M4G7D	QPSK	0.447	26.50
		77M5W7D	16QAM	0.343	25.35
		77M3W7D	64QAM	0.244	23.88
		77M5W7D	256QAM	0.150	21.75
Sub6 n77(78) (90)	3495.00 – 3504.99	86M9G7D	PI/2 BPSK	0.430	26.33
		86M7G7D	QPSK	0.429	26.32
		87M1W7D	16QAM	0.325	25.12
		87M0W7D	64QAM	0.235	23.71
		87M0W7D	256QAM	0.144	21.57
Sub6 n77(78) (100)	3500.01	96M7G7D	PI/2 BPSK	0.418	26.21
		96M7G7D	QPSK	0.410	26.13
		96M6W7D	16QAM	0.313	24.96
		96M7W7D	64QAM	0.228	23.58
		96M4W7D	256QAM	0.139	21.43

2. 3700 MHz - 3980 MHz

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n77(78) (10)	3705.00 – 3975.00	8M59G7D	PI/2 BPSK	0.357	25.53
		8M61G7D	QPSK	0.355	25.50
		8M72W7D	16QAM	0.261	24.17
		8M67W7D	64QAM	0.191	22.82
		8M65W7D	256QAM	0.129	21.10
Sub6 n77(78) (15)	3707.51 – 3972.48	13M0G7D	PI/2 BPSK	0.342	25.34
		13M0G7D	QPSK	0.339	25.30
		13M0W7D	16QAM	0.260	24.15
		12M9W7D	64QAM	0.192	22.83
		13M0W7D	256QAM	0.127	21.05
Sub6 n77(78) (20)	3710.01 – 3969.99	18M0G7D	PI/2 BPSK	0.353	25.48
		18M0G7D	QPSK	0.345	25.38
		17M9W7D	16QAM	0.265	24.24
		18M0W7D	64QAM	0.195	22.91
		18M0W7D	256QAM	0.122	20.85
Sub6 n77(78) (25)	3712.50 – 3967.50	22M9G7D	PI/2 BPSK	0.364	25.61
		23M1G7D	QPSK	0.357	25.53
		22M9W7D	16QAM	0.282	24.51
		23M0W7D	64QAM	0.208	23.18
		22M9W7D	256QAM	0.132	21.22
Sub6 n77(78) (30)	3715.02 – 3964.98	26M9G7D	PI/2 BPSK	0.374	25.73
		27M0G7D	QPSK	0.372	25.71
		27M0W7D	16QAM	0.282	24.50
		26M9W7D	64QAM	0.207	23.15
		27M1W7D	256QAM	0.131	21.18
Sub6 n77(78) (40)	3720.00 – 3960.00	35M8G7D	PI/2 BPSK	0.373	25.72
		36M0G7D	QPSK	0.370	25.68
		35M9W7D	16QAM	0.288	24.59
		35M8W7D	64QAM	0.214	23.30
		35M9W7D	256QAM	0.130	21.15
Sub6 n77(78) (50)	3725.10 – 3954.99	45M9G7D	PI/2 BPSK	0.454	26.57
		45M9G7D	QPSK	0.446	26.49
		45M8W7D	16QAM	0.349	25.43
		45M8W7D	64QAM	0.255	24.06
		46M9W7D	256QAM	0.153	21.85
Sub6 n77(78) (60)	3730.02 – 3949.98	58M0G7D	PI/2 BPSK	0.488	26.88
		58M1G7D	QPSK	0.474	26.76
		57M9W7D	16QAM	0.372	25.71
		58M0W7D	64QAM	0.267	24.26
		58M0W7D	256QAM	0.158	22.00
Sub6 n77(78) (70)	3735.00 – 3945.00	64M4G7D	PI/2 BPSK	0.506	27.04
		64M7G7D	QPSK	0.500	26.99
		64M6W7D	16QAM	0.390	25.91
		64M4W7D	64QAM	0.290	24.63
		64M5W7D	256QAM	0.170	22.30
Sub6 n77(78) (80)	3740.01 – 3939.99	77M3G7D	PI/2 BPSK	0.540	27.32
		77M3G7D	QPSK	0.533	27.27
		77M4W7D	16QAM	0.421	26.24
		77M3W7D	64QAM	0.303	24.81
		77M4W7D	256QAM	0.181	22.57
Sub6 n77(78) (90)	3745.02 – 3934.98	86M9G7D	PI/2 BPSK	0.568	27.54
		87M0G7D	QPSK	0.560	27.48
		87M1W7D	16QAM	0.441	26.44
		87M0W7D	64QAM	0.325	25.12
		86M9W7D	256QAM	0.193	22.85
Sub6 n77(78) (100)	3750.00 – 3930.00	96M7G7D	PI/2 BPSK	0.581	27.64
		96M9G7D	QPSK	0.578	27.62
		96M6W7D	16QAM	0.453	26.56
		96M8W7D	64QAM	0.321	25.07
		96M9W7D	256QAM	0.195	22.91

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

The EUT was a Mobile Phone with GSM/GPRS/EGPRS/UMTS and LTE, Sub 6, mmWave. It also supports IEEE 802.11 a/b/g/n/ac/ax/be (20/40/80/160/320 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, Republic of Korea**

3. DESCRIPTION OF TESTS

3.1 TEST PROCEDURE

Test Description	Test Procedure Used
Occupied Bandwidth	- KDB 971168 D01 v03r01 – Section 4.3 - ANSI C63.26-2015 – Section 5.4.4
Band Edge	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Spurious and Harmonic Emissions at Antenna Terminal	- KDB 971168 D01 v03r01 – Section 6.0 - ANSI C63.26-2015 – Section 5.7
Conducted Output Power	- N/A (See SAR Report)
Peak- to- Average Ratio	- KDB 971168 D01 v03r01 – Section 5.7 - ANSI C63.26-2015 – Section 5.2.3.4
Frequency stability	- ANSI C63.26-2015 – Section 5.6
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 $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $> 2 \times$ span / RBW
5. Detector = Peak
6. Trace mode = Max Hold
7. The trace was allowed to stabilize
8. Test channel : Low/ Middle/ High
9. Frequency range : We are performed all frequency to 10th harmonics from 9 kHz.

Test Note

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

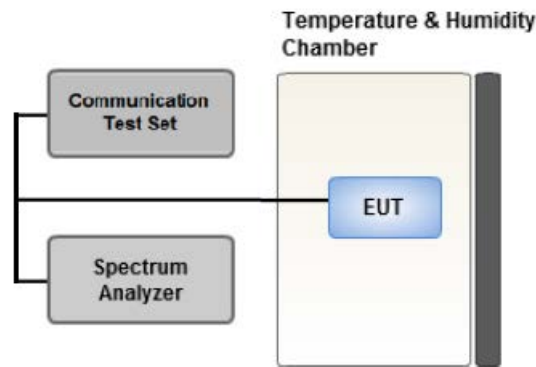
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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

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

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

3.4 PEAK- TO- AVERAGE RATIO



Test setup

① CCDF Procedure for PAPR

Test Settings

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

② Alternate Procedure for PAPR

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

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

Test Settings(Peak Power)

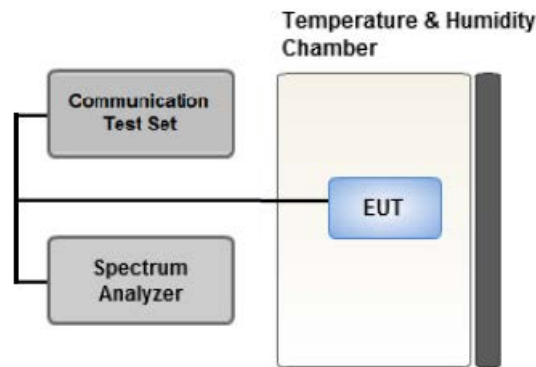
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

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

Test Settings(Average Power)

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

3.5 OCCUPIED BANDWIDTH.



Test setup

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

The EUT makes a call to the communication simulator.

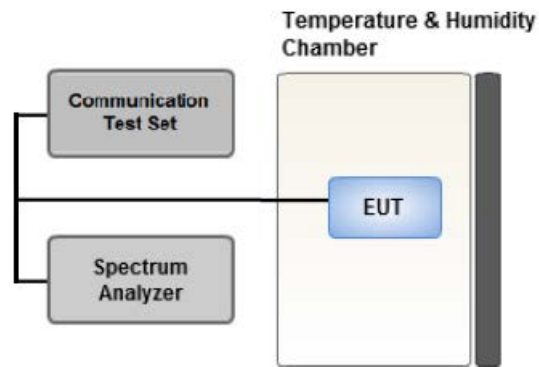
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

Test Settings

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

3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

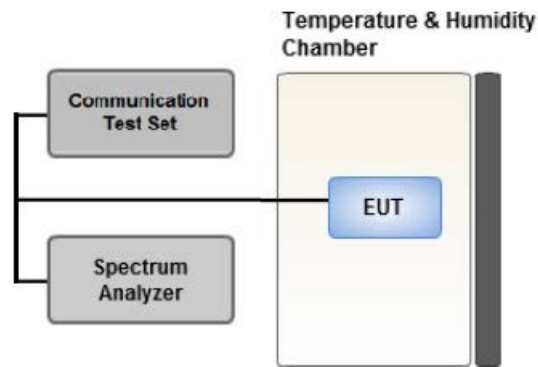
Test Overview

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

Test Settings

1. RBW = 1 MHz
2. VBW $\geq$ 3 MHz
3. Detector = 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 $\geq 2 \times \text{Span/RBW}$
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.

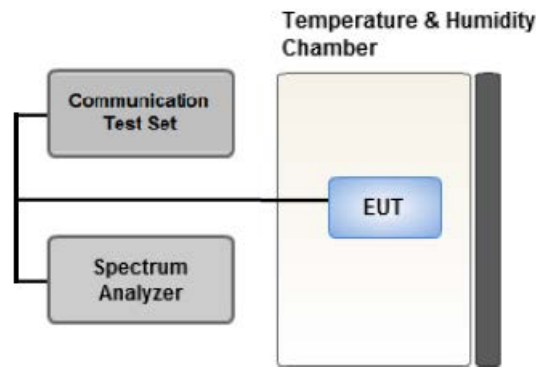
However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz.

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.
- NR n77 (3450 – 3550 MHz / 3700 – 3980 MHz) overlaps the entire frequency range of NR n78 (3450 - 3550 MHz / 3700 – 3800 MHz) and they have the same Tune-up power.
- All modes of operation were investigated and the worst case configuration results are reported.
Mode: NSA, SA, SRS
Worst case: SA
Mode : Stand alone, Stand alone + External accessories (Earphone, AC adapter, etc)
Worst case : Stand alone
- All simultaneous transmission scenarios of operation were investigated, and the test results showed no additional significant emissions relative to the least restrictive limit were observed.
Therefore, only the worst case(stand-alone) results were reported.
- All power classes were tested, and the results were reported for the worst case PC2. (PC2 Only)
- Radiated Spurious emissions are measured while operating in EN-DC mode with Sub 6 NR carrier as well as an LTE carrier (anchor).
All EN-DC mode of operation (=anchor) were investigated and the test results were measured No Peak Found.
The test results which are attenuated more than 20 dB below the permissible value, so it was not reported.
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.
- In the case of radiated spurious emissions, all bandwidth of operation were investigated and the worst case bandwidth results are reported.
(Worst case : 80 MHz(3450 MHz – 3550 MHz), 100 MHz (3700 MHz – 3980 MHz))
- SM-S931U & additional models were tested and the worst case results are reported.
(Worst case : SM-S931U)

[3450 MHz - 3550 MHz Worst case]

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

[3700 MHz - 3980 MHz Worst case]

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

3.10 WORST CASE(CONDUCTED TEST)

- Waveform : All Waveform of operation were investigated and the worst case configuration results are reported.
(Worst case: DFT-S-OFDM)
- Modulation : All Modulation of operation were investigated and the worst case configuration results are reported.
(Worst case: PI/2 BPSK)
- NR n77 (3450 – 3550 MHz / 3700 – 3980 MHz) overlaps the entire frequency range of NR n78 (3450 -3550 MHz / 3700 – 3800 MHz) and they have the same Tune-up power.
- All modes of operation were investigated and the worst case configuration results are reported.
Mode: NSA, SA, SRS
Worst case: SA
- All power classes were tested, and the results were reported for the worst case PC2. (PC2 Only)
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.
- SM-S931U & additional models were tested and the worst case results are reported.
(Worst case : SM-S931U)

[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	09/20/2026	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	05/14/2025	Annual
RF Switching System	FBSR-06B (3G HPF + LNA)	T&M SYSTEM	F3L2	05/14/2025	Annual
RF Switching System	FBSR-06B (6G HPF + LNA)	T&M SYSTEM	F3L3	05/14/2025	Annual
RF Switching System	FBSR-06B (LNA)	T&M SYSTEM	F3L4	05/14/2025	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/17/2024	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/26/2025	Annual
DC Power Supply	E3632A	Hewlett Packard	MY40004427	08/22/2025	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	08/05/2025	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/16/2025	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6262302511	05/14/2025	Annual
Signal Analyzer(5 Hz~40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/17/2025	Annual
4-Way Divider	ZC4PD-K1844+	Mini-Circuits	942907	09/10/2025	Annual
FCC LTE Mobile Conducted RF Automation Test Software	-	HCT CO., LTD.,	-	-	-

Note:

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

5. MEASUREMENT UNCERTAINTY

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

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

Parameter	Expanded Uncertainty ($\pm$ 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	Offset
3455.01	Sub6 n77(78)/ 10 MHz [30 kHz]	PI/2 BPSK	-22.56	15.42	11.96	3.04	H	< 1.00	0.272	24.34	1	22
		QPSK	-22.59	15.39	11.96	3.04	H		0.270	24.31		
		16-QAM	-23.67	14.31	11.96	3.04	H		0.210	23.23		
		64-QAM	-25.23	12.75	11.96	3.04	H		0.147	21.67		
		256-QAM	-27.39	10.59	11.96	3.04	H		0.089	19.51		
3500.01		PI/2 BPSK	-21.78	16.54	12.04	3.04	H		0.358	25.54	1	22
		QPSK	-21.89	16.43	12.04	3.04	H		0.349	25.43		
		16-QAM	-22.98	15.34	12.04	3.04	H		0.272	24.34		
		64-QAM	-24.35	13.97	12.04	3.04	H		0.198	22.97		
		256-QAM	-26.59	11.73	12.04	3.04	H		0.118	20.73		
3544.99		PI/2 BPSK	-21.23	17.12	12.04	3.07	H		0.406	26.09	1	22
		QPSK	-21.31	17.04	12.04	3.07	H		0.399	26.01		
		16-QAM	-22.43	15.92	12.04	3.07	H		0.308	24.89		
		64-QAM	-23.73	14.62	12.04	3.07	H		0.229	23.59		
		256-QAM	-26.01	12.34	12.04	3.07	H		0.135	21.31		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3457.50	Sub6 n77(78)/ 15 MHz [30 kHz]	PI/2 BPSK	-22.51	15.50	12.00	3.04	H	< 1.00	0.279	24.46	1	36
		QPSK	-22.58	15.43	12.00	3.04	H		0.275	24.39		
		16-QAM	-23.82	14.19	12.00	3.04	H		0.207	23.15		
		64-QAM	-25.07	12.94	12.00	3.04	H		0.155	21.90		
		256-QAM	-27.32	10.69	12.00	3.04	H		0.092	19.65		
3500.01		PI/2 BPSK	-21.60	16.72	12.04	3.04	H		0.373	25.72	1	36
		QPSK	-21.74	16.58	12.04	3.04	H		0.361	25.58		
		16-QAM	-22.81	15.51	12.04	3.04	H		0.283	24.51		
		64-QAM	-24.23	14.09	12.04	3.04	H		0.204	23.09		
		256-QAM	-26.38	11.94	12.04	3.04	H		0.124	20.94		
3542.50		PI/2 BPSK	-21.21	17.14	12.04	3.07	H	0.408	26.11	1	36	
		QPSK	-21.28	17.07	12.04	3.07	H	0.402	26.04			
		16-QAM	-22.47	15.88	12.04	3.07	H	0.306	24.85			
		64-QAM	-23.76	14.59	12.04	3.07	H	0.227	23.56			
		256-QAM	-26.01	12.34	12.04	3.07	H	0.135	21.31			

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	-22.38	15.63	12.00	3.04	H	< 1.00	0.288	24.59	1	49
		QPSK	-22.50	15.51	12.00	3.04	H		0.280	24.47		
		16-QAM	-23.58	14.43	12.00	3.04	H		0.218	23.39		
		64-QAM	-24.99	13.02	12.00	3.04	H		0.158	21.98		
		256-QAM	-27.28	10.73	12.00	3.04	H		0.093	19.69		
3500.01	Sub6 n77(78)/ 20 MHz [30 kHz]	PI/2 BPSK	-21.73	16.59	12.04	3.04	H	< 1.00	0.362	25.59	1	49
		QPSK	-21.76	16.56	12.04	3.04	H		0.360	25.56		
		16-QAM	-22.83	15.49	12.04	3.04	H		0.281	24.49		
		64-QAM	-24.34	13.98	12.04	3.04	H		0.199	22.98		
		256-QAM	-26.52	11.80	12.04	3.04	H		0.120	20.80		
3540.00		PI/2 BPSK	-21.20	17.08	12.04	3.06	H	< 1.00	0.404	26.06	1	49
		QPSK	-21.28	17.00	12.04	3.06	H		0.396	25.98		
		16-QAM	-22.48	15.80	12.04	3.06	H		0.301	24.78		
		64-QAM	-23.71	14.57	12.04	3.06	H		0.227	23.55		
		256-QAM	-26.01	12.27	12.04	3.06	H		0.133	21.25		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3462.50	Sub6 n77(78)/ 25 MHz [30 kHz]	PI/2 BPSK	-22.17	15.83	12.02	3.02	H	< 1.00	0.304	24.83	1	63
		QPSK	-22.26	15.74	12.02	3.02	H		0.298	24.74		
		16-QAM	-23.56	14.44	12.02	3.02	H		0.221	23.44		
		64-QAM	-24.70	13.30	12.02	3.02	H		0.170	22.30		
		256-QAM	-27.03	10.97	12.02	3.02	H		0.099	19.97		
3500.01		PI/2 BPSK	-21.44	16.88	12.04	3.04	H		0.387	25.88	1	63
		QPSK	-21.53	16.79	12.04	3.04	H		0.379	25.79		
		16-QAM	-22.82	15.50	12.04	3.04	H		0.282	24.50		
		64-QAM	-24.15	14.17	12.04	3.04	H		0.208	23.17		
		256-QAM	-26.25	12.07	12.04	3.04	H		0.128	21.07		
3537.50		PI/2 BPSK	-21.10	17.18	12.04	3.06	H		0.413	26.16	1	63
		QPSK	-21.16	17.12	12.04	3.06	H		0.407	26.10		
		16-QAM	-22.35	15.93	12.04	3.06	H		0.310	24.91		
		64-QAM	-23.58	14.70	12.04	3.06	H		0.233	23.68		
		256-QAM	-25.83	12.45	12.04	3.06	H		0.139	21.43		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3465.00		PI/2 BPSK	-22.12	15.88	12.02	3.02	H	< 1.00	0.308	24.88	1	76
		QPSK	-22.27	15.73	12.02	3.02	H		0.297	24.73		
		16-QAM	-23.36	14.64	12.02	3.02	H		0.231	23.64		
		64-QAM	-24.80	13.20	12.02	3.02	H		0.166	22.20		
		256-QAM	-26.99	11.01	12.02	3.02	H		0.100	20.01		
3500.01	Sub6 n77(78)/ 30 MHz [30 kHz]	PI/2 BPSK	-21.35	16.97	12.04	3.04	H	< 1.00	0.395	25.97	1	76
		QPSK	-21.46	16.86	12.04	3.04	H		0.386	25.86		
		16-QAM	-22.58	15.74	12.04	3.04	H		0.298	24.74		
		64-QAM	-24.03	14.29	12.04	3.04	H		0.213	23.29		
		256-QAM	-26.22	12.10	12.04	3.04	H		0.129	21.10		
3534.99		PI/2 BPSK	-21.16	17.14	12.04	3.05	H	< 1.00	0.410	26.13	1	76
		QPSK	-21.23	17.07	12.04	3.05	H		0.404	26.06		
		16-QAM	-22.32	15.98	12.04	3.05	H		0.314	24.97		
		64-QAM	-23.66	14.64	12.04	3.05	H		0.231	23.63		
		256-QAM	-26.01	12.29	12.04	3.05	H		0.134	21.28		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3470.01	Sub6 n77(78)/ 40 MHz [30 kHz]	PI/2 BPSK	-21.90	16.10	12.04	3.01	H	< 1.00	0.326	25.13	1	104
		QPSK	-21.96	16.04	12.04	3.01	H		0.321	25.07		
		16-QAM	-23.28	14.72	12.04	3.01	H		0.237	23.75		
		64-QAM	-24.51	13.49	12.04	3.01	H		0.179	22.52		
		256-QAM	-26.73	11.27	12.04	3.01	H		0.107	20.30		
3500.01		PI/2 BPSK	-21.43	16.89	12.04	3.04	H		0.388	25.89	1	104
		QPSK	-21.50	16.82	12.04	3.04	H		0.382	25.82		
		16-QAM	-22.72	15.60	12.04	3.04	H		0.288	24.60		
		64-QAM	-24.15	14.17	12.04	3.04	H		0.208	23.17		
		256-QAM	-26.28	12.04	12.04	3.04	H		0.127	21.04		
3529.98		PI/2 BPSK	-21.09	17.23	12.04	3.05	H		0.419	26.22	1	104
		QPSK	-21.24	17.08	12.04	3.05	H		0.405	26.07		
		16-QAM	-22.32	16.00	12.04	3.05	H		0.316	24.99		
		64-QAM	-23.76	14.56	12.04	3.05	H		0.227	23.55		
		256-QAM	-25.93	12.39	12.04	3.05	H		0.137	21.38		

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	Offset
3475.02	Sub6 n77(78)/ 50 MHz [30 kHz]	PI/2 BPSK	-21.38	16.64	12.04	3.02	H	< 1.00	0.368	25.66	1	131
		QPSK	-21.43	16.59	12.04	3.02	H		0.364	25.61		
		16-QAM	-22.65	15.37	12.04	3.02	H		0.275	24.39		
		64-QAM	-23.99	14.03	12.04	3.02	H		0.202	23.05		
		256-QAM	-26.16	11.86	12.04	3.02	H		0.123	20.88		
3500.01		PI/2 BPSK	-21.19	17.13	12.04	3.04	H		0.410	26.13	1	131
		QPSK	-21.28	17.04	12.04	3.04	H		0.402	26.04		
		16-QAM	-22.41	15.91	12.04	3.04	H		0.310	24.91		
		64-QAM	-23.66	14.66	12.04	3.04	H		0.232	23.66		
		256-QAM	-25.93	12.39	12.04	3.04	H		0.138	21.39		
3525.00		PI/2 BPSK	-20.93	17.47	12.04	3.04	H		0.444	26.47	1	131
		QPSK	-21.03	17.37	12.04	3.04	H		0.434	26.37		
		16-QAM	-22.15	16.25	12.04	3.04	H		0.335	25.25		
		64-QAM	-23.58	14.82	12.04	3.04	H		0.241	23.82		
		256-QAM	-25.76	12.64	12.04	3.04	H		0.146	21.64		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3480.00	Sub6 n77(78)/ 60 MHz [30 kHz]	PI/2 BPSK	-21.59	16.44	12.04	3.02	H	< 1.00	0.352	25.46	1	160
		QPSK	-21.63	16.40	12.04	3.02	H		0.348	25.42		
		16-QAM	-22.88	15.15	12.04	3.02	H		0.261	24.17		
		64-QAM	-24.13	13.90	12.04	3.02	H		0.196	22.92		
		256-QAM	-26.39	11.64	12.04	3.02	H		0.116	20.66		
3500.01		PI/2 BPSK	-21.30	17.02	12.04	3.04	H		0.400	26.02	1	160
		QPSK	-21.40	16.92	12.04	3.04	H		0.391	25.92		
		16-QAM	-22.51	15.81	12.04	3.04	H		0.303	24.81		
		64-QAM	-23.87	14.45	12.04	3.04	H		0.221	23.45		
		256-QAM	-26.03	12.29	12.04	3.04	H		0.135	21.29		
3519.99		PI/2 BPSK	-21.27	17.22	12.04	3.04	H		0.419	26.22	1	160
		QPSK	-21.33	17.16	12.04	3.04	H		0.413	26.16		
		16-QAM	-22.44	16.05	12.04	3.04	H		0.320	25.05		
		64-QAM	-23.74	14.75	12.04	3.04	H		0.237	23.75		
		256-QAM	-25.98	12.51	12.04	3.04	H		0.142	21.51		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3485.01	Sub6 n77(78)/ 70 MHz [30 kHz]	PI/2 BPSK	-21.35	16.75	12.04	3.03	H	< 1.00	0.377	25.76	1	187
		QPSK	-21.39	16.71	12.04	3.03	H		0.373	25.72		
		16-QAM	-22.61	15.49	12.04	3.03	H		0.282	24.50		
		64-QAM	-24.04	14.06	12.04	3.03	H		0.203	23.07		
		256-QAM	-26.16	11.94	12.04	3.03	H		0.125	20.95		
3500.01		PI/2 BPSK	-21.11	17.21	12.04	3.04	H		0.418	26.21	1	187
		QPSK	-21.23	17.09	12.04	3.04	H		0.406	26.09		
		16-QAM	-22.36	15.96	12.04	3.04	H		0.313	24.96		
		64-QAM	-23.79	14.53	12.04	3.04	H		0.225	23.53		
		256-QAM	-25.90	12.42	12.04	3.04	H		0.139	21.42		
3514.98		PI/2 BPSK	-21.04	17.48	12.04	3.04	H		0.445	26.48	1	187
		QPSK	-21.21	17.31	12.04	3.04	H		0.428	26.31		
		16-QAM	-22.37	16.15	12.04	3.04	H		0.327	25.15		
		64-QAM	-23.73	14.79	12.04	3.04	H		0.239	23.79		
		256-QAM	-25.93	12.59	12.04	3.04	H		0.144	21.59		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3490.02	Sub6 n77(78)/ 80 MHz [30 kHz]	PI/2 BPSK	-21.13	17.04	12.04	3.04	H	< 1.00	0.402	26.04	1	215
		QPSK	-21.19	16.98	12.04	3.04	H		0.396	25.98		
		16-QAM	-22.44	15.73	12.04	3.04	H		0.297	24.73		
		64-QAM	-23.65	14.52	12.04	3.04	H		0.225	23.52		
		256-QAM	-25.88	12.29	12.04	3.04	H		0.135	21.29		
3500.01		PI/2 BPSK	-21.06	17.26	12.04	3.04	H		0.423	26.26	1	215
		QPSK	-21.13	17.19	12.04	3.04	H		0.416	26.19		
		16-QAM	-22.32	16.00	12.04	3.04	H		0.316	25.00		
		64-QAM	-23.74	14.58	12.04	3.04	H		0.228	23.58		
		256-QAM	-25.87	12.45	12.04	3.04	H		0.140	21.45		
3510.00		PI/2 BPSK	-21.01	17.56	12.04	3.05	H		0.452	26.55	1	215
		QPSK	-21.06	17.51	12.04	3.05	H		0.447	26.50		
		16-QAM	-22.21	16.36	12.04	3.05	H		0.343	25.35		
		64-QAM	-23.68	14.89	12.04	3.05	H		0.244	23.88		
		256-QAM	-25.81	12.76	12.04	3.05	H		0.150	21.75		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3495.00		PI/2 BPSK	-21.16	17.09	12.04	3.04	H	< 1.00	0.406	26.09	1	243
		QPSK	-21.20	17.05	12.04	3.04	H		0.403	26.05		
		16-QAM	-22.36	15.89	12.04	3.04	H		0.308	24.89		
		64-QAM	-23.80	14.45	12.04	3.04	H		0.221	23.45		
		256-QAM	-25.98	12.27	12.04	3.04	H		0.134	21.27		
3500.01	Sub6 n77(78)/ 90 MHz [30 kHz]	PI/2 BPSK	-21.18	17.14	12.04	3.04	H	< 1.00	0.411	26.14	1	243
		QPSK	-21.24	17.08	12.04	3.04	H		0.406	26.08		
		16-QAM	-22.45	15.87	12.04	3.04	H		0.307	24.87		
		64-QAM	-23.85	14.47	12.04	3.04	H		0.222	23.47		
		256-QAM	-25.94	12.38	12.04	3.04	H		0.137	21.38		
3504.99		PI/2 BPSK	-21.11	17.34	12.04	3.05	H	< 1.00	0.430	26.33	1	243
		QPSK	-21.12	17.33	12.04	3.05	H		0.429	26.32		
		16-QAM	-22.32	16.13	12.04	3.05	H		0.325	25.12		
		64-QAM	-23.73	14.72	12.04	3.05	H		0.235	23.71		
		256-QAM	-25.87	12.58	12.04	3.05	H		0.144	21.57		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3500.01	Sub6 n77(78)/ 100 MHz [30 kHz]	PI/2 BPSK	-21.11	17.21	12.04	3.04	H	< 1.00	0.418	26.21	1	271
		QPSK	-21.19	17.13	12.04	3.04	H		0.410	26.13		
		16-QAM	-22.36	15.96	12.04	3.04	H		0.313	24.96		
		64-QAM	-23.74	14.58	12.04	3.04	H		0.228	23.58		
		256-QAM	-25.89	12.43	12.04	3.04	H		0.139	21.43		

8.2 RADIATED SPURIOUS EMISSIONS

NR Band:	<u>N77(78)</u>
Bandwidth:	<u>80 MHz</u>
Modulation:	<u>PI/2 BPSK</u>
Distance:	<u>1 meters</u>
SCS:	<u>30 kHz</u>

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
632668 (3490.02)	6 980.04	-63.77	11.16	-58.11	4.48	V	-51.43	-13.00	1	215
	10 470.06	-63.20	11.72	-53.00	5.59	V	-46.87	-13.00		
	13 960.08	-59.73	12.79	-50.09	6.50	V	-43.80	-13.00		
633334 (3500.01)	7 000.02	-63.42	11.13	-56.77	4.45	V	-50.09	-13.00	1	215
	10 500.03	-64.32	11.71	-53.07	5.64	V	-47.00	-13.00		
	14 000.04	-59.46	12.76	-49.88	6.55	V	-43.67	-13.00		
634000 (3510.00)	7 020.00	-63.75	11.07	-56.84	4.41	V	-50.18	-13.00	1	215
	10 530.00	-64.17	11.69	-53.41	5.64	V	-47.36	-13.00		
	14 040.00	-59.45	12.73	-50.13	6.50	V	-43.90	-13.00		

8.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n77(78)	10 MHz	3500.01	BPSK	Full RB	0	3.63
			QPSK			4.30
			16-QAM			5.17
			64-QAM			5.64
			256-QAM			6.59
	15 MHz		BPSK			3.64
			QPSK			4.24
			16-QAM			5.17
			64-QAM			5.64
			256-QAM			6.46
	20 MHz		BPSK			3.59
			QPSK			4.26
			16-QAM			5.29
			64-QAM			5.85
			256-QAM			6.77
	25 MHz		BPSK			4.02
			QPSK			4.48
			16-QAM			5.45
			64-QAM			5.83
			256-QAM			6.61
	30 MHz		BPSK			3.71
			QPSK			4.25
			16-QAM			5.25
			64-QAM			5.71
			256-QAM			6.53
	40 MHz		BPSK			3.67
			QPSK			4.29
			16-QAM			5.23
			64-QAM			5.74
			256-QAM			6.47
	50 MHz		BPSK			3.71
			QPSK			4.32
			16-QAM			5.28
			64-QAM			5.70
			256-QAM			6.55
	60 MHz		BPSK			4.07
			QPSK			4.56
			16-QAM			5.48
			64-QAM			5.91
			256-QAM			6.61
	70 MHz		BPSK			3.98
			QPSK			4.68
			16-QAM			5.53
			64-QAM			5.92
			256-QAM			6.66
	80 MHz		BPSK			3.84
			QPSK			4.53

			16-QAM			5.43
			64-QAM			5.93
			256-QAM			6.63
	90 MHz		BPSK			3.96
			QPSK			4.72
			16-QAM			5.56
			64-QAM			5.93
			256-QAM			6.51
	100 MHz		BPSK			3.92
			QPSK			4.81
			16-QAM			5.60
			64-QAM			5.93
			256-QAM			6.67

Note:

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

8.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n77(78)	10 MHz	3500.01	BPSK	Full RB	0	8.6058
			QPSK			8.6775
			16-QAM			8.6326
			64-QAM			8.6376
			256-QAM			8.7688
	15 MHz		BPSK			13.029
			QPSK			13.049
			16-QAM			12.976
			64-QAM			12.917
			256-QAM			12.954
	20 MHz		BPSK			17.951
			QPSK			18.039
			16-QAM			17.941
			64-QAM			17.928
			256-QAM			18.032
	25 MHz		BPSK			22.989
			QPSK			23.059
			16-QAM			22.949
			64-QAM			23.017
			256-QAM			22.934
	30 MHz		BPSK			26.954
			QPSK			26.930
			16-QAM			26.955
			64-QAM			26.956
			256-QAM			26.962
	40 MHz		BPSK			35.887
			QPSK			35.905
			16-QAM			35.871
			64-QAM			35.774
			256-QAM			35.772
	50 MHz		BPSK			46.123
			QPSK			45.890
			16-QAM			45.970
			64-QAM			45.844
			256-QAM			45.884
	60 MHz		BPSK			58.082
			QPSK			58.116
			16-QAM			57.999
			64-QAM			58.072
			256-QAM			58.231
	70 MHz		BPSK			64.654
			QPSK			64.438
			16-QAM			64.494
			64-QAM			64.508
			256-QAM			64.561
	80 MHz		BPSK			77.571
			QPSK			77.392

			16-QAM			77.505
			64-QAM			77.305
			256-QAM			77.449
	90 MHz		BPSK			86.888
			QPSK			86.725
			16-QAM			87.112
			64-QAM			86.959
			256-QAM			86.994
	100 MHz		BPSK			96.717
			QPSK			96.706
			16-QAM			96.570
			64-QAM			96.738
			256-QAM			96.379

Note:

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

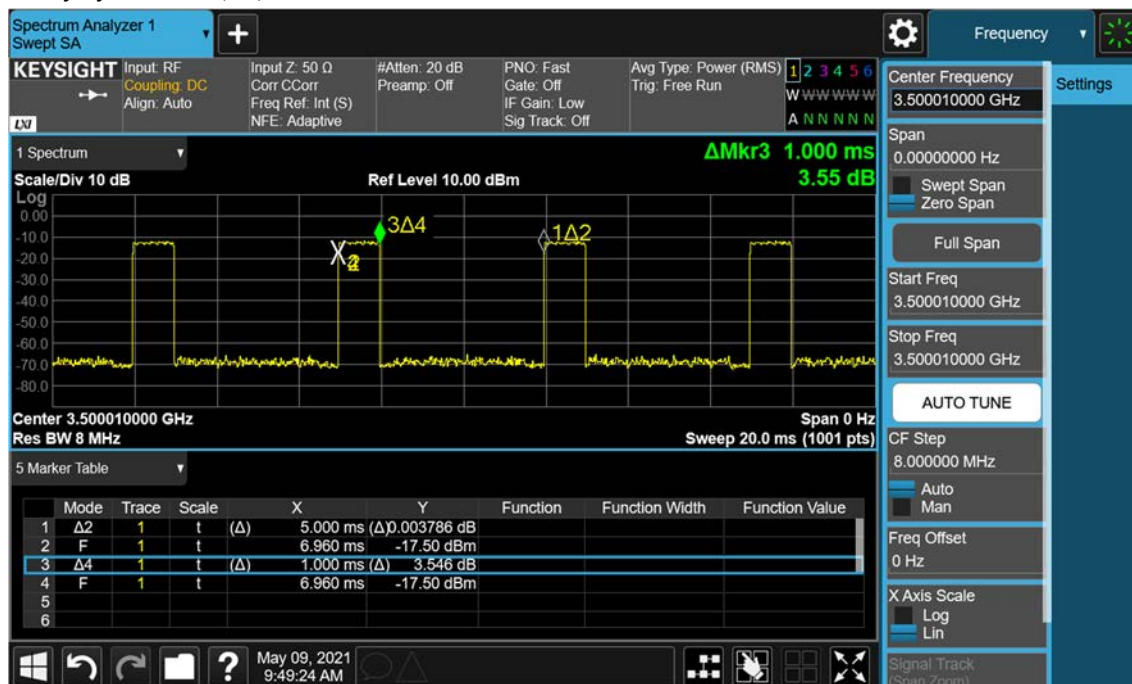
8.5 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
Sub6 n77(78)	10	3455.010	8.2971	37.805	-74.989	-37.184	-13.00
		3500.010	9.1914	37.805	-74.460	-36.655	
		3544.980	6.0329	37.805	-74.740	-36.935	
	15	3457.500	8.3171	37.805	-74.682	-36.877	
		3500.010	9.6840	37.805	-75.259	-37.454	
		3542.490	5.4686	37.805	-74.540	-36.735	
	20	3460.020	8.5808	37.805	-74.056	-36.251	
		3500.010	8.2886	37.805	-73.455	-35.650	
		3540.000	5.1800	37.805	-74.353	-36.548	
	25	3462.510	5.1730	37.805	-74.127	-36.322	
		3500.010	9.9731	37.805	-74.760	-36.955	
		3537.480	9.9546	37.805	-74.964	-37.159	
	30	3465.000	8.3450	37.805	-74.140	-36.335	
		3500.010	9.1366	37.805	-74.621	-36.816	
		3534.990	9.1565	37.805	-74.740	-36.935	
	40	3470.010	5.1900	37.805	-74.014	-36.209	
		3500.010	9.1491	37.805	-74.303	-36.498	
		3529.980	6.0334	37.805	-74.022	-36.217	
	50	3475.020	9.7014	37.805	-74.464	-36.659	
		3500.010	9.4492	37.805	-74.669	-36.864	
		3525.000	9.6914	37.805	-73.512	-35.707	
	60	3480.000	4.5848	37.190	-74.631	-37.441	
		3500.010	9.3983	37.805	-74.451	-36.646	
		3519.990	8.5907	37.805	-75.157	-37.352	
	70	3485.010	8.2333	37.805	-74.127	-36.322	
		3500.010	4.8540	37.190	-74.016	-36.826	
		3514.980	8.0314	37.805	-73.863	-36.058	
	80	3490.020	9.7627	37.805	-74.726	-36.921	
		3500.010	8.2358	37.805	-73.961	-36.156	
		3510.000	9.1361	37.805	-74.294	-36.489	
	90	3495.000	9.9611	37.805	-74.068	-36.263	
		3500.010	4.9033	37.190	-74.828	-37.638	
		3504.990	8.2936	37.805	-74.375	-36.570	
	100	3500.010	8.6032	37.805	-75.170	-37.365	

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	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3455.010	100 %	+20(Ref)	3455 009 992	0.0	0.000 000	0.000
	100 %	-30	3455 009 985	-6.9	0.000 000	-0.002
	100 %	-20	3455 009 987	-5.6	0.000 000	-0.002
	100 %	-10	3455 009 988	-3.7	0.000 000	-0.001
	100 %	0	3455 009 987	-4.7	0.000 000	-0.001
	100 %	+10	3455 009 989	-3.6	0.000 000	-0.001
	100 %	+30	3455 009 989	-3.3	0.000 000	-0.001
	100 %	+40	3455 009 986	-5.7	0.000 000	-0.002
	100 %	+50	3455 009 987	-5.5	0.000 000	-0.002
	Batt. Endpoint	+20	3455 009 987	-5.1	0.000 000	-0.001
3544.980	100 %	+20(Ref)	3544 980 001	0.0	0.000 000	0.000
	100 %	-30	3544 979 995	-6.3	0.000 000	-0.002
	100 %	-20	3544 979 998	-2.9	0.000 000	-0.001
	100 %	-10	3544 980 001	-0.1	0.000 000	0.000
	100 %	0	3544 979 996	-4.5	0.000 000	-0.001
	100 %	+10	3544 979 999	-2.1	0.000 000	-0.001
	100 %	+30	3544 979 999	-1.4	0.000 000	0.000
	100 %	+40	3544 979 995	-6.3	0.000 000	-0.002
	100 %	+50	3544 980 000	-0.8	0.000 000	0.000
	Batt. Endpoint	+20	3544 980 001	-0.2	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)	(%)	
3457.500	100 %	+20(Ref)	3457 499 995	0.0	0.000 000	0.000
	100 %	-30	3457 499 994	-1.1	0.000 000	0.000
	100 %	-20	3457 499 993	-2.2	0.000 000	-0.001
	100 %	-10	3457 499 997	1.9	0.000 000	0.001
	100 %	0	3457 499 991	-3.8	0.000 000	-0.001
	100 %	+10	3457 499 990	-5.3	0.000 000	-0.002
	100 %	+30	3457 499 990	-5.4	0.000 000	-0.002
	100 %	+40	3457 499 993	-2.1	0.000 000	-0.001
	100 %	+50	3457 499 986	-8.6	0.000 000	-0.002
	Batt. Endpoint	+20	3457 499 988	-7.4	0.000 000	-0.002
3542.490	100 %	+20(Ref)	3542 490 005	0.0	0.000 000	0.000
	100 %	-30	3542 489 999	-5.6	0.000 000	-0.002
	100 %	-20	3542 490 000	-5.4	0.000 000	-0.002
	100 %	-10	3542 490 004	-1.2	0.000 000	0.000
	100 %	0	3542 490 004	-1.1	0.000 000	0.000
	100 %	+10	3542 490 005	-0.4	0.000 000	0.000
	100 %	+30	3542 489 999	-5.9	0.000 000	-0.002
	100 %	+40	3542 489 997	-8.0	0.000 000	-0.002
	100 %	+50	3542 490 001	-3.6	0.000 000	-0.001
	Batt. Endpoint	+20	3542 490 002	-3.2	0.000 000	-0.001

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3460.020	100 %	+20(Ref)	3460 019 998	0.0	0.000 000	0.000
	100 %	-30	3460 019 997	-1.4	0.000 000	0.000
	100 %	-20	3460 019 999	0.8	0.000 000	0.000
	100 %	-10	3460 019 990	-7.7	0.000 000	-0.002
	100 %	0	3460 019 993	-4.6	0.000 000	-0.001
	100 %	+10	3460 019 990	-7.6	0.000 000	-0.002
	100 %	+30	3460 019 996	-2.0	0.000 000	-0.001
	100 %	+40	3460 019 996	-1.7	0.000 000	0.000
	100 %	+50	3460 019 996	-1.7	0.000 000	0.000
	Batt. Endpoint	+20	3460 019 997	-1.2	0.000 000	0.000
3540.000	100 %	+20(Ref)	3539 999 994	0.0	0.000 000	0.000
	100 %	-30	3539 999 991	-2.8	0.000 000	-0.001
	100 %	-20	3539 999 991	-2.3	0.000 000	-0.001
	100 %	-10	3539 999 987	-6.2	0.000 000	-0.002
	100 %	0	3539 999 991	-2.4	0.000 000	-0.001
	100 %	+10	3539 999 992	-1.8	0.000 000	-0.001
	100 %	+30	3539 999 987	-6.7	0.000 000	-0.002
	100 %	+40	3539 999 995	1.3	0.000 000	0.000
	100 %	+50	3539 999 987	-6.3	0.000 000	-0.002
	Batt. Endpoint	+20	3539 999 988	-5.5	0.000 000	-0.002

- ▣ 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 509 998	0.0	0.000 000	0.000
	100 %	-30	3462 509 988	-10.2	0.000 000	-0.003
	100 %	-20	3462 509 995	-2.6	0.000 000	-0.001
	100 %	-10	3462 509 992	-6.3	0.000 000	-0.002
	100 %	0	3462 509 997	-1.4	0.000 000	0.000
	100 %	+10	3462 509 998	-0.2	0.000 000	0.000
	100 %	+30	3462 510 001	3.1	0.000 000	0.001
	100 %	+40	3462 509 994	-4.4	0.000 000	-0.001
	100 %	+50	3462 509 997	-0.8	0.000 000	0.000
	Batt. Endpoint	+20	3462 509 996	-1.7	0.000 000	-0.001
3537.480	100 %	+20(Ref)	3537 479 997	0.0	0.000 000	0.000
	100 %	-30	3537 479 998	0.9	0.000 000	0.000
	100 %	-20	3537 479 992	-4.4	0.000 000	-0.001
	100 %	-10	3537 479 992	-4.5	0.000 000	-0.001
	100 %	0	3537 479 996	-1.1	0.000 000	0.000
	100 %	+10	3537 479 991	-5.4	0.000 000	-0.002
	100 %	+30	3537 479 995	-2.2	0.000 000	-0.001
	100 %	+40	3537 479 994	-2.9	0.000 000	-0.001
	100 %	+50	3537 479 991	-5.9	0.000 000	-0.002
	Batt. Endpoint	+20	3537 479 993	-4.3	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 999 997	0.0	0.000 000	0.000
	100 %	-30	3464 999 995	-1.8	0.000 000	-0.001
	100 %	-20	3464 999 997	-0.1	0.000 000	0.000
	100 %	-10	3464 999 998	1.5	0.000 000	0.000
	100 %	0	3465 000 000	3.3	0.000 000	0.001
	100 %	+10	3464 999 993	-4.1	0.000 000	-0.001
	100 %	+30	3464 999 992	-5.3	0.000 000	-0.002
	100 %	+40	3464 999 992	-4.9	0.000 000	-0.001
	100 %	+50	3464 999 997	-0.5	0.000 000	0.000
	Batt. Endpoint	+20	3464 999 995	-2.3	0.000 000	-0.001
3534.990	100 %	+20(Ref)	3534 989 997	0.0	0.000 000	0.000
	100 %	-30	3534 989 995	-1.7	0.000 000	0.000
	100 %	-20	3534 989 991	-5.8	0.000 000	-0.002
	100 %	-10	3534 989 994	-2.9	0.000 000	-0.001
	100 %	0	3534 989 992	-4.5	0.000 000	-0.001
	100 %	+10	3534 989 994	-2.3	0.000 000	-0.001
	100 %	+30	3534 989 991	-5.4	0.000 000	-0.002
	100 %	+40	3534 989 993	-3.1	0.000 000	-0.001
	100 %	+50	3534 989 991	-5.6	0.000 000	-0.002
	Batt. Endpoint	+20	3534 989 992	-4.7	0.000 000	-0.001

- ▣ 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 010 002	1.4	0.000 000	0.000
	100 %	-20	3470 009 994	-6.4	0.000 000	-0.002
	100 %	-10	3470 009 997	-3.8	0.000 000	-0.001
	100 %	0	3470 010 000	-0.1	0.000 000	0.000
	100 %	+10	3470 009 999	-1.5	0.000 000	0.000
	100 %	+30	3470 009 998	-2.3	0.000 000	-0.001
	100 %	+40	3470 009 995	-5.1	0.000 000	-0.001
	100 %	+50	3470 010 004	4.0	0.000 000	0.001
	Batt. Endpoint	+20	3470 010 002	1.7	0.000 000	0.000
3529.980	100 %	+20(Ref)	3529 979 997	0.0	0.000 000	0.000
	100 %	-30	3529 979 997	0.3	0.000 000	0.000
	100 %	-20	3529 979 995	-2.4	0.000 000	-0.001
	100 %	-10	3529 979 993	-3.8	0.000 000	-0.001
	100 %	0	3529 979 994	-2.7	0.000 000	-0.001
	100 %	+10	3529 979 994	-2.5	0.000 000	-0.001
	100 %	+30	3529 979 993	-3.7	0.000 000	-0.001
	100 %	+40	3529 979 994	-3.2	0.000 000	-0.001
	100 %	+50	3529 979 998	1.3	0.000 000	0.000
	Batt. Endpoint	+20	3529 979 995	-1.5	0.000 000	0.000

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3475.020	100 %	+20(Ref)	3475 019 995	0.0	0.000 000	0.000
	100 %	-30	3475 019 993	-1.6	0.000 000	0.000
	100 %	-20	3475 019 993	-2.1	0.000 000	-0.001
	100 %	-10	3475 019 991	-3.2	0.000 000	-0.001
	100 %	0	3475 019 990	-5.0	0.000 000	-0.001
	100 %	+10	3475 019 997	2.4	0.000 000	0.001
	100 %	+30	3475 019 994	-0.4	0.000 000	0.000
	100 %	+40	3475 019 994	-0.3	0.000 000	0.000
	100 %	+50	3475 019 996	1.1	0.000 000	0.000
	Batt. Endpoint	+20	3475 019 996	1.8	0.000 000	0.001
3525.000	100 %	+20(Ref)	3524 999 994	0.0	0.000 000	0.000
	100 %	-30	3524 999 993	-1.0	0.000 000	0.000
	100 %	-20	3524 999 990	-3.6	0.000 000	-0.001
	100 %	-10	3524 999 991	-2.9	0.000 000	-0.001
	100 %	0	3524 999 992	-1.4	0.000 000	0.000
	100 %	+10	3524 999 991	-2.9	0.000 000	-0.001
	100 %	+30	3524 999 992	-1.5	0.000 000	0.000
	100 %	+40	3524 999 990	-3.1	0.000 000	-0.001
	100 %	+50	3524 999 990	-3.4	0.000 000	-0.001
	Batt. Endpoint	+20	3524 999 987	-6.5	0.000 000	-0.002

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3480.000	100 %	+20(Ref)	3479 999 997	0.0	0.000 000	0.000
	100 %	-30	3479 999 993	-3.7	0.000 000	-0.001
	100 %	-20	3479 999 990	-6.7	0.000 000	-0.002
	100 %	-10	3479 999 988	-8.9	0.000 000	-0.003
	100 %	0	3479 999 994	-3.0	0.000 000	-0.001
	100 %	+10	3479 999 993	-4.5	0.000 000	-0.001
	100 %	+30	3479 999 991	-6.2	0.000 000	-0.002
	100 %	+40	3479 999 988	-8.8	0.000 000	-0.003
	100 %	+50	3479 999 990	-6.9	0.000 000	-0.002
	Batt. Endpoint	+20	3479 999 993	-4.3	0.000 000	-0.001
3519.990	100 %	+20(Ref)	3519 990 000	0.0	0.000 000	0.000
	100 %	-30	3519 989 994	-6.2	0.000 000	-0.002
	100 %	-20	3519 989 994	-6.9	0.000 000	-0.002
	100 %	-10	3519 989 998	-2.3	0.000 000	-0.001
	100 %	0	3519 989 996	-4.8	0.000 000	-0.001
	100 %	+10	3519 990 002	1.2	0.000 000	0.000
	100 %	+30	3519 989 999	-1.0	0.000 000	0.000
	100 %	+40	3519 989 999	-1.1	0.000 000	0.000
	100 %	+50	3519 989 996	-4.6	0.000 000	-0.001
	Batt. Endpoint	+20	3519 989 996	-4.5	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 009 992	0.0	0.000 000	0.000
	100 %	-30	3485 009 993	0.6	0.000 000	0.000
	100 %	-20	3485 009 992	0.3	0.000 000	0.000
	100 %	-10	3485 009 990	-2.4	0.000 000	-0.001
	100 %	0	3485 009 988	-4.1	0.000 000	-0.001
	100 %	+10	3485 009 990	-2.4	0.000 000	-0.001
	100 %	+30	3485 009 986	-5.7	0.000 000	-0.002
	100 %	+40	3485 009 992	0.4	0.000 000	0.000
	100 %	+50	3485 009 988	-4.4	0.000 000	-0.001
	Batt. Endpoint	+20	3485 009 991	-1.1	0.000 000	0.000
3514.980	100 %	+20(Ref)	3514 979 993	0.0	0.000 000	0.000
	100 %	-30	3514 979 988	-5.0	0.000 000	-0.001
	100 %	-20	3514 979 991	-1.9	0.000 000	-0.001
	100 %	-10	3514 979 987	-6.2	0.000 000	-0.002
	100 %	0	3514 979 991	-2.0	0.000 000	-0.001
	100 %	+10	3514 979 989	-3.9	0.000 000	-0.001
	100 %	+30	3514 979 989	-3.9	0.000 000	-0.001
	100 %	+40	3514 979 989	-4.4	0.000 000	-0.001
	100 %	+50	3514 979 986	-7.2	0.000 000	-0.002
	Batt. Endpoint	+20	3514 979 987	-5.9	0.000 000	-0.002

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3490.020	100 %	+20(Ref)	3490 019 990	0.0	0.000 000	0.000
	100 %	-30	3490 019 981	-9.7	0.000 000	-0.003
	100 %	-20	3490 019 983	-7.8	0.000 000	-0.002
	100 %	-10	3490 019 988	-2.5	0.000 000	-0.001
	100 %	0	3490 019 982	-7.9	0.000 000	-0.002
	100 %	+10	3490 019 986	-4.7	0.000 000	-0.001
	100 %	+30	3490 019 989	-1.1	0.000 000	0.000
	100 %	+40	3490 019 988	-2.1	0.000 000	-0.001
	100 %	+50	3490 019 985	-5.2	0.000 000	-0.001
	Batt. Endpoint	+20	3490 019 989	-0.8	0.000 000	0.000
3510.000	100 %	+20(Ref)	3509 999 989	0.0	0.000 000	0.000
	100 %	-30	3509 999 983	-6.4	0.000 000	-0.002
	100 %	-20	3509 999 981	-8.3	0.000 000	-0.002
	100 %	-10	3509 999 984	-5.6	0.000 000	-0.002
	100 %	0	3509 999 985	-4.1	0.000 000	-0.001
	100 %	+10	3509 999 985	-4.1	0.000 000	-0.001
	100 %	+30	3509 999 984	-5.6	0.000 000	-0.002
	100 %	+40	3509 999 987	-1.9	0.000 000	-0.001
	100 %	+50	3509 999 978	-10.9	0.000 000	-0.003
	Batt. Endpoint	+20	3509 999 980	-9.7	0.000 000	-0.003

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3495.000	100 %	+20(Ref)	3495 000 002	0.0	0.000 000	0.000
	100 %	-30	3495 000 003	1.0	0.000 000	0.000
	100 %	-20	3495 000 005	2.9	0.000 000	0.001
	100 %	-10	3494 999 997	-4.9	0.000 000	-0.001
	100 %	0	3494 999 999	-2.3	0.000 000	-0.001
	100 %	+10	3495 000 005	3.5	0.000 000	0.001
	100 %	+30	3495 000 005	3.5	0.000 000	0.001
	100 %	+40	3495 000 001	-0.7	0.000 000	0.000
	100 %	+50	3495 000 001	-0.7	0.000 000	0.000
	Batt. Endpoint	+20	3495 000 002	0.7	0.000 000	0.000
3504.990	100 %	+20(Ref)	3504 990 003	0.0	0.000 000	0.000
	100 %	-30	3504 990 004	1.1	0.000 000	0.000
	100 %	-20	3504 990 002	-1.5	0.000 000	0.000
	100 %	-10	3504 990 000	-3.3	0.000 000	-0.001
	100 %	0	3504 990 006	2.9	0.000 000	0.001
	100 %	+10	3504 990 007	3.6	0.000 000	0.001
	100 %	+30	3504 990 004	1.2	0.000 000	0.000
	100 %	+40	3504 989 999	-4.2	0.000 000	-0.001
	100 %	+50	3504 990 000	-2.8	0.000 000	-0.001
	Batt. Endpoint	+20	3504 990 003	-0.2	0.000 000	0.000

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3500.010	100 %	+20(Ref)	3500 009 998	0.0	0.000 000	0.000
	100 %	-30	3500 009 990	-7.2	0.000 000	-0.002
	100 %	-20	3500 009 996	-1.2	0.000 000	0.000
	100 %	-10	3500 009 994	-3.9	0.000 000	-0.001
	100 %	0	3500 010 002	4.3	0.000 000	0.001
	100 %	+10	3500 009 996	-1.9	0.000 000	-0.001
	100 %	+30	3500 009 997	-0.2	0.000 000	0.000
	100 %	+40	3500 009 997	-0.2	0.000 000	0.000
	100 %	+50	3500 009 994	-3.2	0.000 000	-0.001
	Batt. Endpoint	+20	3500 009 995	-2.6	0.000 000	-0.001

9. TEST DATA (3700 MHz - 3980 MHz)

9.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3705.00	Sub6 n77(78)/ 10 MHz [30 kHz]	PI/2 BPSK	-22.06	16.53	12.08	3.08	H	< 1.00	0.357	25.53	1	22
		QPSK	-22.09	16.50	12.08	3.08	H		0.355	25.50		
		16-QAM	-23.42	15.17	12.08	3.08	H		0.261	24.17		
		64-QAM	-24.77	13.82	12.08	3.08	H		0.191	22.82		
		256-QAM	-26.49	12.10	12.08	3.08	H		0.129	21.10		
3840.00		PI/2 BPSK	-23.04	16.91	11.58	3.20	H		0.338	25.29	1	1
		QPSK	-23.08	16.87	11.58	3.20	H		0.335	25.25		
		16-QAM	-24.16	15.79	11.58	3.20	H		0.261	24.17		
		64-QAM	-25.60	14.35	11.58	3.20	H		0.188	22.73		
		256-QAM	-27.81	12.14	11.58	3.20	H		0.113	20.52		
3975.00		PI/2 BPSK	-23.03	16.88	11.70	3.25	H		0.341	25.33	1	1
		QPSK	-23.06	16.85	11.70	3.25	H		0.339	25.30		
		16-QAM	-24.23	15.68	11.70	3.25	H		0.259	24.13		
		64-QAM	-25.67	14.24	11.70	3.25	H		0.186	22.69		
		256-QAM	-27.90	12.01	11.70	3.25	H		0.111	20.46		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3707.51	Sub6 n77(78)/ 15 MHz [30 kHz]	PI/2 BPSK	-22.16	16.34	12.08	3.08	H	< 1.00	0.342	25.34	1	36
		QPSK	-22.20	16.30	12.08	3.08	H		0.339	25.30		
		16-QAM	-23.41	15.09	12.08	3.08	H		0.256	24.09		
		64-QAM	-24.67	13.83	12.08	3.08	H		0.192	22.83		
		256-QAM	-26.45	12.05	12.08	3.08	H		0.127	21.05		
3840.00		PI/2 BPSK	-23.05	16.90	11.58	3.20	H		0.337	25.28	1	1
		QPSK	-23.14	16.81	11.58	3.20	H		0.330	25.19		
		16-QAM	-24.18	15.77	11.58	3.20	H		0.260	24.15		
		64-QAM	-25.51	14.44	11.58	3.20	H		0.191	22.82		
		256-QAM	-27.74	12.21	11.58	3.20	H		0.115	20.59		
3972.48		PI/2 BPSK	-23.07	16.79	11.69	3.25	H	0.333	25.23	1	1	
		QPSK	-23.15	16.71	11.69	3.25	H	0.327	25.15			
		16-QAM	-24.21	15.65	11.69	3.25	H	0.256	24.09			
		64-QAM	-25.64	14.22	11.69	3.25	H	0.185	22.66			
		256-QAM	-27.88	11.98	11.69	3.25	H	0.110	20.42			

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3710.01		PI/2 BPSK	-22.23	16.27	12.08	3.08	H	< 1.00	0.337	25.27	1	49
		QPSK	-22.27	16.23	12.08	3.08	H		0.333	25.23		
		16-QAM	-23.57	14.93	12.08	3.08	H		0.247	23.93		
		64-QAM	-24.80	13.70	12.08	3.08	H		0.186	22.70		
		256-QAM	-26.65	11.85	12.08	3.08	H		0.122	20.85		
3840.00	Sub6 n77(78)/ 20 MHz [30 kHz]	PI/2 BPSK	-22.85	17.10	11.58	3.20	H	< 1.00	0.353	25.48	1	1
		QPSK	-22.95	17.00	11.58	3.20	H		0.345	25.38		
		16-QAM	-24.09	15.86	11.58	3.20	H		0.266	24.24		
		64-QAM	-25.42	14.53	11.58	3.20	H		0.195	22.91		
		256-QAM	-27.74	12.21	11.58	3.20	H		0.115	20.59		
3969.99		PI/2 BPSK	-23.04	16.82	11.69	3.25	H	< 1.00	0.336	25.26	1	1
		QPSK	-23.07	16.79	11.69	3.25	H		0.333	25.23		
		16-QAM	-24.25	15.61	11.69	3.25	H		0.254	24.05		
		64-QAM	-25.65	14.21	11.69	3.25	H		0.184	22.65		
		256-QAM	-27.87	11.99	11.69	3.25	H		0.110	20.43		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3712.50	Sub6 n77(78)/ 25 MHz [30 kHz]	PI/2 BPSK	-22.06	16.51	12.08	3.11	H	< 1.00	0.353	25.48	1	1
		QPSK	-22.24	16.33	12.08	3.11	H		0.339	25.30		
		16-QAM	-23.28	15.29	12.08	3.11	H		0.267	24.26		
		64-QAM	-24.64	13.93	12.08	3.11	H		0.195	22.90		
		256-QAM	-26.32	12.25	12.08	3.11	H		0.132	21.22		
3840.00		PI/2 BPSK	-22.72	17.23	11.58	3.20	H		0.364	25.61	1	1
		QPSK	-22.80	17.15	11.58	3.20	H		0.357	25.53		
		16-QAM	-23.82	16.13	11.58	3.20	H		0.283	24.51		
		64-QAM	-25.15	14.80	11.58	3.20	H		0.208	23.18		
		256-QAM	-27.49	12.46	11.58	3.20	H		0.121	20.84		
3967.50		PI/2 BPSK	-23.09	16.77	11.69	3.25	H		0.332	25.21	1	1
		QPSK	-23.12	16.74	11.69	3.25	H		0.330	25.18		
		16-QAM	-24.18	15.68	11.69	3.25	H		0.258	24.12		
		64-QAM	-25.62	14.24	11.69	3.25	H		0.185	22.68		
		256-QAM	-27.81	12.05	11.69	3.25	H		0.112	20.49		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3715.02		PI/2 BPSK	-21.96	16.61	12.08	3.11	H	< 1.00	0.361	25.58	1	1
		QPSK	-22.11	16.46	12.08	3.11	H		0.349	25.43		
		16-QAM	-23.39	15.18	12.08	3.11	H		0.260	24.15		
		64-QAM	-24.75	13.82	12.08	3.11	H		0.190	22.79		
		256-QAM	-26.36	12.21	12.08	3.11	H		0.131	21.18		
3840.00	Sub6 n77(78)/ 30 MHz [30 kHz]	PI/2 BPSK	-22.60	17.35	11.58	3.20	H	< 1.00	0.374	25.73	1	1
		QPSK	-22.62	17.33	11.58	3.20	H		0.372	25.71		
		16-QAM	-23.83	16.12	11.58	3.20	H		0.282	24.50		
		64-QAM	-25.18	14.77	11.58	3.20	H		0.207	23.15		
		256-QAM	-27.39	12.56	11.58	3.20	H		0.124	20.94		
3964.98		PI/2 BPSK	-23.04	16.89	11.67	3.24	H	< 1.00	0.340	25.32	1	1
		QPSK	-23.05	16.88	11.67	3.24	H		0.340	25.31		
		16-QAM	-24.26	15.67	11.67	3.24	H		0.257	24.10		
		64-QAM	-25.53	14.40	11.67	3.24	H		0.192	22.83		
		256-QAM	-27.77	12.16	11.67	3.24	H		0.115	20.59		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3720.00		PI/2 BPSK	-22.16	16.47	12.07	3.13	H	< 1.00	0.348	25.41	1	1
		QPSK	-22.17	16.46	12.07	3.13	H		0.347	25.40		
		16-QAM	-23.38	15.25	12.07	3.13	H		0.262	24.19		
		64-QAM	-24.77	13.86	12.07	3.13	H		0.191	22.80		
		256-QAM	-26.42	12.21	12.07	3.13	H		0.130	21.15		
3840.00	Sub6 n77(78)/ 40 MHz [30 kHz]	PI/2 BPSK	-22.61	17.34	11.58	3.20	H	< 1.00	0.373	25.72	1	1
		QPSK	-22.65	17.30	11.58	3.20	H		0.370	25.68		
		16-QAM	-23.74	16.21	11.58	3.20	H		0.288	24.59		
		64-QAM	-25.03	14.92	11.58	3.20	H		0.214	23.30		
		256-QAM	-27.27	12.68	11.58	3.20	H		0.128	21.06		
3960.00		PI/2 BPSK	-23.14	16.86	11.65	3.24	H	< 1.00	0.337	25.27	1	53
		QPSK	-23.24	16.76	11.65	3.24	H		0.329	25.17		
		16-QAM	-24.25	15.75	11.65	3.24	H		0.261	24.16		
		64-QAM	-25.73	14.27	11.65	3.24	H		0.185	22.68		
		256-QAM	-27.96	12.04	11.65	3.24	H		0.111	20.45		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3725.10		PI/2 BPSK	-22.59	16.17	12.06	3.15	H	< 1.00	0.322	25.08	1	1
		QPSK	-22.66	16.10	12.06	3.15	H		0.317	25.01		
		16-QAM	-23.83	14.93	12.06	3.15	H		0.242	23.84		
		64-QAM	-25.21	13.55	12.06	3.15	H		0.176	22.46		
		256-QAM	-26.94	11.82	12.06	3.15	H		0.118	20.73		
3840.00	Sub6 n77(78)/ 50 MHz [30 kHz]	PI/2 BPSK	-21.76	18.19	11.58	3.20	H	< 1.00	0.454	26.57	1	1
		QPSK	-21.84	18.11	11.58	3.20	H		0.446	26.49		
		16-QAM	-22.90	17.05	11.58	3.20	H		0.349	25.43		
		64-QAM	-24.27	15.68	11.58	3.20	H		0.255	24.06		
		256-QAM	-26.48	13.47	11.58	3.20	H		0.153	21.85		
3954.99		PI/2 BPSK	-22.66	17.37	11.63	3.23	H	< 1.00	0.378	25.77	1	1
		QPSK	-22.70	17.33	11.63	3.23	H		0.374	25.73		
		16-QAM	-23.83	16.20	11.63	3.23	H		0.288	24.60		
		64-QAM	-25.11	14.92	11.63	3.23	H		0.215	23.32		
		256-QAM	-27.38	12.65	11.63	3.23	H		0.127	21.05		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3730.02	Sub6 n77(78)/ 60 MHz [30 kHz]	PI/2 BPSK	-22.63	16.27	12.04	3.17	H	< 1.00	0.327	25.14	1	1
		QPSK	-22.66	16.24	12.04	3.17	H		0.324	25.11		
		16-QAM	-24.02	14.88	12.04	3.17	H		0.237	23.75		
		64-QAM	-25.23	13.67	12.04	3.17	H		0.180	22.54		
		256-QAM	-27.07	11.83	12.04	3.17	H		0.118	20.70		
3840.00		PI/2 BPSK	-21.45	18.50	11.58	3.20	H		0.488	26.88	1	1
		QPSK	-21.57	18.38	11.58	3.20	H		0.474	26.76		
		16-QAM	-22.62	17.33	11.58	3.20	H		0.372	25.71		
		64-QAM	-24.07	15.88	11.58	3.20	H		0.267	24.26		
		256-QAM	-26.33	13.62	11.58	3.20	H		0.159	22.00		
3949.98		PI/2 BPSK	-22.70	17.35	11.61	3.22	H		0.375	25.74	1	1
		QPSK	-22.75	17.30	11.61	3.22	H		0.371	25.69		
		16-QAM	-23.90	16.15	11.61	3.22	H		0.284	24.54		
		64-QAM	-25.25	14.80	11.61	3.22	H		0.208	23.19		
		256-QAM	-27.55	12.50	11.61	3.22	H		0.123	20.89		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3735.00	Sub6 n77(78)/ 70 MHz [30 kHz]	PI/2 BPSK	-22.65	16.37	12.02	3.18	H	< 1.00	0.332	25.21	1	1
		QPSK	-22.69	16.33	12.02	3.18	H		0.329	25.17		
		16-QAM	-23.97	15.05	12.02	3.18	H		0.245	23.89		
		64-QAM	-25.29	13.73	12.02	3.18	H		0.181	22.57		
		256-QAM	-26.95	12.07	12.02	3.18	H		0.123	20.91		
3840.00		PI/2 BPSK	-21.29	18.66	11.58	3.20	H		0.506	27.04	1	1
		QPSK	-21.34	18.61	11.58	3.20	H		0.500	26.99		
		16-QAM	-22.42	17.53	11.58	3.20	H		0.390	25.91		
		64-QAM	-23.70	16.25	11.58	3.20	H		0.290	24.63		
		256-QAM	-26.03	13.92	11.58	3.20	H		0.170	22.30		
3945.00		PI/2 BPSK	-22.73	17.30	11.60	3.23	H		0.369	25.67	1	1
		QPSK	-22.75	17.28	11.60	3.23	H		0.367	25.65		
		16-QAM	-23.84	16.19	11.60	3.23	H		0.286	24.56		
		64-QAM	-25.26	14.77	11.60	3.23	H		0.206	23.14		
		256-QAM	-27.45	12.58	11.60	3.23	H		0.125	20.95		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3740.01		PI/2 BPSK	-22.69	16.46	12.00	3.19	H	< 1.00	0.337	25.27	1	1
		QPSK	-22.72	16.43	12.00	3.19	H		0.334	25.24		
		16-QAM	-23.96	15.19	12.00	3.19	H		0.251	24.00		
		64-QAM	-25.31	13.84	12.00	3.19	H		0.184	22.65		
		256-QAM	-26.99	12.16	12.00	3.19	H		0.125	20.97		
3840.00	Sub6 n77(78)/ 80 MHz [30 kHz]	PI/2 BPSK	-21.01	18.94	11.58	3.20	H	< 1.00	0.540	27.32	1	1
		QPSK	-21.06	18.89	11.58	3.20	H		0.533	27.27		
		16-QAM	-22.09	17.86	11.58	3.20	H		0.421	26.24		
		64-QAM	-23.52	16.43	11.58	3.20	H		0.303	24.81		
		256-QAM	-25.76	14.19	11.58	3.20	H		0.181	22.57		
3939.99		PI/2 BPSK	-22.61	17.39	11.58	3.23	H	< 1.00	0.375	25.74	1	1
		QPSK	-22.65	17.35	11.58	3.23	H		0.372	25.70		
		16-QAM	-23.75	16.25	11.58	3.23	H		0.288	24.60		
		64-QAM	-25.13	14.87	11.58	3.23	H		0.210	23.22		
		256-QAM	-27.26	12.74	11.58	3.23	H		0.129	21.09		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured Level (dBm)	Substitute Level (dBm)	Ant. Gain (dBi)	C.L	Pol	Limit	EIRP		RB	
								W	W	dBm	Size	Offset
3745.02		PI/2 BPSK	-22.65	16.52	11.97	3.18	H	< 1.00	0.340	25.31	1	1
		QPSK	-22.69	16.48	11.97	3.18	H		0.337	25.27		
		16-QAM	-23.92	15.25	11.97	3.18	H		0.254	24.04		
		64-QAM	-25.23	13.94	11.97	3.18	H		0.188	22.73		
		256-QAM	-26.94	12.23	11.97	3.18	H		0.127	21.02		
3840.00	Sub6 n77(78)/ 90 MHz [30 kHz]	PI/2 BPSK	-20.79	19.16	11.58	3.20	H	< 1.00	0.568	27.54	1	1
		QPSK	-20.85	19.10	11.58	3.20	H		0.560	27.48		
		16-QAM	-21.89	18.06	11.58	3.20	H		0.441	26.44		
		64-QAM	-23.21	16.74	11.58	3.20	H		0.325	25.12		
		256-QAM	-25.48	14.47	11.58	3.20	H		0.193	22.85		
3934.98		PI/2 BPSK	-22.69	17.26	11.56	3.24	H	< 1.00	0.361	25.58	1	1
		QPSK	-22.73	17.22	11.56	3.24	H		0.358	25.54		
		16-QAM	-23.87	16.08	11.56	3.24	H		0.275	24.40		
		64-QAM	-25.15	14.80	11.56	3.24	H		0.205	23.12		
		256-QAM	-27.36	12.59	11.56	3.24	H		0.123	20.91		

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	Offset
3750.00	Sub6 n77(78)/ 100 MHz [30 kHz]	PI/2 BPSK	-22.55	16.64	11.95	3.17	H	< 1.00	0.348	25.42	1	1
		QPSK	-22.80	16.39	11.95	3.17	H		0.329	25.17		
		16-QAM	-24.00	15.19	11.95	3.17	H		0.250	23.97		
		64-QAM	-25.30	13.89	11.95	3.17	H		0.185	22.67		
		256-QAM	-26.98	12.21	11.95	3.17	H		0.126	20.99		
3840.00		PI/2 BPSK	-20.69	19.26	11.58	3.20	H		0.581	27.64	1	1
		QPSK	-20.71	19.24	11.58	3.20	H		0.578	27.62		
		16-QAM	-21.77	18.18	11.58	3.20	H		0.453	26.56		
		64-QAM	-23.26	16.69	11.58	3.20	H		0.321	25.07		
		256-QAM	-25.42	14.53	11.58	3.20	H		0.195	22.91		
3930.00		PI/2 BPSK	-22.82	17.08	11.54	3.26	H		0.344	25.36	1	1
		QPSK	-22.88	17.02	11.54	3.26	H		0.339	25.30		
		16-QAM	-24.15	15.75	11.54	3.26	H		0.253	24.03		
		64-QAM	-25.31	14.59	11.54	3.26	H		0.194	22.87		
		256-QAM	-27.59	12.31	11.54	3.26	H		0.115	20.59		

9.2 RADIATED SPURIOUS EMISSIONS

NR Band:	<u>N77(78)</u>
Bandwidth:	<u>100 MHz</u>
Modulation:	<u>PI/2 BPSK</u>
Distance:	<u>1 meters</u>
SCS:	<u>30 kHz</u>

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
650000 (3750.00)	7 500.00	-63.06	11.52	-55.76	4.60	V	-48.84	-13.00	1	1
	11 250.00	-65.40	12.05	-54.29	5.89	V	-48.13	-13.00		
	15 000.00	-56.80	14.31	-49.64	6.78	V	-42.11	-13.00		
656000 (3840.00)	7 680.00	-63.96	11.47	-56.65	4.70	V	-49.88	-13.00	1	1
	11 520.00	-63.91	12.34	-52.60	5.87	V	-46.13	-13.00		
	15 360.00	-59.41	15.37	-52.83	6.88	V	-44.34	-13.00		
662000 (3930.00)	7 860.00	-63.97	11.07	-56.14	4.75	V	-49.82	-13.00	1	1
	11 790.00	-64.26	12.68	-54.83	6.02	V	-48.17	-13.00		
	15 720.00	-61.96	16.08	-55.66	6.95	V	-46.53	-13.00		

9.3 PEAK-TO-AVERAGE RATIO

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n77(78)	10 MHz	3840.00	BPSK	Full RB	0	3.91
			QPSK			4.50
			16-QAM			5.51
			64-QAM			5.92
			256-QAM			6.61
	15 MHz		BPSK			4.00
			QPSK			4.53
			16-QAM			5.47
			64-QAM			5.96
			256-QAM			6.79
	20 MHz		BPSK			3.93
			QPSK			4.64
			16-QAM			5.54
			64-QAM			6.01
			256-QAM			6.73
	25 MHz		BPSK			4.06
			QPSK			4.69
			16-QAM			5.78
			64-QAM			6.14
			256-QAM			6.84
	30 MHz		BPSK			4.01
			QPSK			4.61
			16-QAM			5.64
			64-QAM			5.97
			256-QAM			6.54
	40 MHz		BPSK			4.13
			QPSK			4.60
			16-QAM			5.58
			64-QAM			6.04
			256-QAM			6.64
	50 MHz		BPSK			4.09
			QPSK			4.68
			16-QAM			5.64
			64-QAM			6.08
			256-QAM			6.68
	60 MHz		BPSK			4.04
			QPSK			4.65
			16-QAM			5.55
			64-QAM			6.01
			256-QAM			6.74
	70 MHz		BPSK			4.19
			QPSK			4.73
			16-QAM			5.66
			64-QAM			6.06
			256-QAM			6.69
	80 MHz		BPSK			4.20
			QPSK			4.78

			16-QAM			5.66
			64-QAM			6.18
			256-QAM			6.69
	90 MHz		BPSK			4.12
			QPSK			4.63
			16-QAM			5.55
			64-QAM			6.00
			256-QAM			6.71
	100 MHz		BPSK			4.28
			QPSK			4.89
			16-QAM			5.89
			64-QAM			6.36
			256-QAM			6.70

Note:

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

9.4 OCCUPIED BANDWIDTH

Band	Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n77(78)	10 MHz	3840.00	BPSK	Full RB	0	8.5893
			QPSK			8.6108
			16-QAM			8.7154
			64-QAM			8.6706
			256-QAM			8.6495
	15 MHz		BPSK			12.972
			QPSK			12.974
			16-QAM			13.012
			64-QAM			12.932
			256-QAM			12.955
	20 MHz		BPSK			17.969
			QPSK			17.965
			16-QAM			17.915
			64-QAM			17.954
			256-QAM			18.026
	25 MHz		BPSK			22.918
			QPSK			23.068
			16-QAM			22.916
			64-QAM			22.947
			256-QAM			22.928
	30 MHz		BPSK			26.870
			QPSK			26.981
			16-QAM			26.946
			64-QAM			26.944
			256-QAM			27.070
	40 MHz		BPSK			35.830
			QPSK			35.954
			16-QAM			35.928
			64-QAM			35.783
			256-QAM			35.929
	50 MHz		BPSK			45.894
			QPSK			45.885
			16-QAM			45.835
			64-QAM			45.843
			256-QAM			45.885
	60 MHz		BPSK			57.994
			QPSK			58.112
			16-QAM			57.908
			64-QAM			57.997
			256-QAM			58.025
	70 MHz		BPSK			64.373
			QPSK			64.654
			16-QAM			64.582
			64-QAM			64.417
			256-QAM			64.543
	80 MHz		BPSK			77.300
			QPSK			77.313

			16-QAM			77.376
			64-QAM			77.276
			256-QAM			77.394
	90 MHz		BPSK			86.872
			QPSK			86.990
			16-QAM			87.071
			64-QAM			86.986
			256-QAM			86.854
	100 MHz		BPSK			96.674
			QPSK			96.865
			16-QAM			96.565
			64-QAM			96.759
			256-QAM			96.894

Note:

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

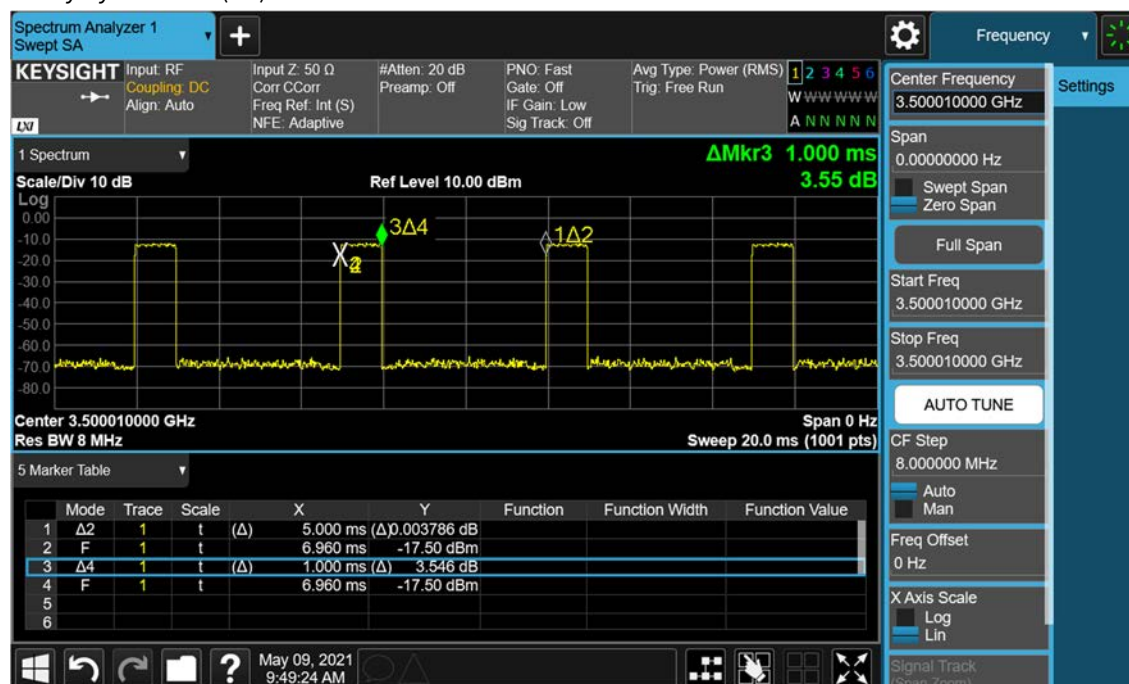
9.5 CONDUCTED SPURIOUS EMISSIONS

Band	Band Width (MHz)	Frequency (MHz)	Frequency of Maximum Harmonic (GHz)	Factor (dB)	Measurement Maximum Data (dBm)	Result (dBm)	Limit (dBm)
Sub6 n77(78)	10	3705.000	8.0050	37.805	-74.103	-36.298	-13.00
		3840.000	7.7288	37.805	-74.389	-36.584	
		3975.000	9.1486	37.805	-74.401	-36.596	
	15	3707.520	8.9073	37.805	-74.335	-36.530	
		3840.000	5.2029	37.805	-74.366	-36.561	
		3972.480	7.5190	37.805	-74.242	-36.437	
	20	3710.010	9.1276	37.805	-74.304	-36.499	
		3840.000	8.8360	37.805	-74.636	-36.831	
		3969.990	4.9218	37.190	-74.341	-37.151	
	25	3712.500	9.4163	37.805	-74.559	-36.754	
		3840.000	5.4796	37.805	-74.182	-36.377	
		3967.500	9.4158	37.805	-74.179	-36.374	
	30	3715.020	9.7273	37.805	-74.037	-36.232	
		3840.000	4.9462	37.190	-73.949	-36.759	
		3964.980	8.0344	37.805	-74.197	-36.392	
	40	3720.000	9.1117	37.805	-74.354	-36.549	
		3840.000	9.6835	37.805	-74.646	-36.841	
		3960.000	9.1266	37.805	-73.253	-35.448	
	50	3725.010	8.8754	37.805	-74.983	-37.178	
		3840.000	9.4661	37.805	-74.686	-36.881	
		3954.990	9.7428	37.805	-74.242	-36.437	
	60	3730.020	6.0225	37.805	-74.205	-36.400	
		3840.000	8.8864	37.805	-74.807	-37.002	
		3949.980	8.2667	37.805	-74.287	-36.482	
	70	3735.000	5.1790	37.805	-74.118	-36.313	
		3840.000	8.2966	37.805	-74.468	-36.663	
		3945.000	4.9512	37.190	-74.756	-37.566	
	80	3740.010	9.1042	37.805	-74.559	-36.754	
		3840.000	6.8993	37.805	-74.583	-36.778	
		3939.990	8.2737	37.805	-73.326	-35.521	
	90	3745.020	8.0130	37.805	-75.018	-37.213	
		3840.000	9.3978	37.805	-75.381	-37.576	
		3934.980	9.6745	37.805	-73.764	-35.959	
	100	3750.000	7.7199	37.805	-74.902	-37.097	
		3840.000	9.1022	37.805	-74.379	-36.574	
		3930.000	6.0225	37.805	-74.398	-36.593	

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 999 997	0.0	0.000 000	0.000
	100 %	-30	3704 999 992	-4.4	0.000 000	-0.001
	100 %	-20	3704 999 998	0.8	0.000 000	0.000
	100 %	-10	3704 999 995	-2.0	0.000 000	-0.001
	100 %	0	3704 999 990	-7.2	0.000 000	-0.002
	100 %	+10	3704 999 995	-1.5	0.000 000	0.000
	100 %	+30	3704 999 999	1.9	0.000 000	0.000
	100 %	+40	3704 999 994	-2.9	0.000 000	-0.001
	100 %	+50	3704 999 994	-2.9	0.000 000	-0.001
	Batt. Endpoint	+20	3704 999 995	-2.2	0.000 000	-0.001
3975.000	100 %	+20(Ref)	3974 999 994	0.0	0.000 000	0.000
	100 %	-30	3974 999 990	-3.3	0.000 000	-0.001
	100 %	-20	3974 999 988	-5.4	0.000 000	-0.001
	100 %	-10	3974 999 994	0.2	0.000 000	0.000
	100 %	0	3974 999 988	-6.0	0.000 000	-0.002
	100 %	+10	3974 999 988	-6.2	0.000 000	-0.002
	100 %	+30	3974 999 993	-0.6	0.000 000	0.000
	100 %	+40	3974 999 991	-2.8	0.000 000	-0.001
	100 %	+50	3974 999 992	-1.9	0.000 000	0.000
	Batt. Endpoint	+20	3974 999 989	-4.7	0.000 000	-0.001

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3707.520	100 %	+20(Ref)	3707 520 002	0.0	0.000 000	0.000
	100 %	-30	3707 520 000	-2.4	0.000 000	-0.001
	100 %	-20	3707 520 004	1.8	0.000 000	0.000
	100 %	-10	3707 520 000	-1.9	0.000 000	-0.001
	100 %	0	3707 520 002	0.2	0.000 000	0.000
	100 %	+10	3707 520 000	-2.5	0.000 000	-0.001
	100 %	+30	3707 520 002	-0.3	0.000 000	0.000
	100 %	+40	3707 520 000	-1.9	0.000 000	-0.001
	100 %	+50	3707 520 003	1.3	0.000 000	0.000
	Batt. Endpoint	+20	3707 520 000	-2.1	0.000 000	-0.001
3972.480	100 %	+20(Ref)	3972 479 992	0.0	0.000 000	0.000
	100 %	-30	3972 479 985	-7.5	0.000 000	-0.002
	100 %	-20	3972 479 987	-5.4	0.000 000	-0.001
	100 %	-10	3972 479 986	-5.9	0.000 000	-0.001
	100 %	0	3972 479 984	-8.1	0.000 000	-0.002
	100 %	+10	3972 479 988	-3.8	0.000 000	-0.001
	100 %	+30	3972 479 990	-2.1	0.000 000	-0.001
	100 %	+40	3972 479 990	-2.0	0.000 000	0.000
	100 %	+50	3972 479 988	-4.0	0.000 000	-0.001
	Batt. Endpoint	+20	3972 479 989	-3.3	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 009 998	0.0	0.000 000	0.000
	100 %	-30	3710 009 999	1.3	0.000 000	0.000
	100 %	-20	3710 010 003	5.0	0.000 000	0.001
	100 %	-10	3710 009 996	-2.0	0.000 000	-0.001
	100 %	0	3710 009 994	-3.6	0.000 000	-0.001
	100 %	+10	3710 009 999	0.7	0.000 000	0.000
	100 %	+30	3710 009 996	-1.7	0.000 000	0.000
	100 %	+40	3710 009 999	1.1	0.000 000	0.000
	100 %	+50	3710 009 997	-0.8	0.000 000	0.000
	Batt. Endpoint	+20	3710 009 999	1.4	0.000 000	0.000
3969.990	100 %	+20(Ref)	3969 989 998	0.0	0.000 000	0.000
	100 %	-30	3969 989 994	-3.6	0.000 000	-0.001
	100 %	-20	3969 989 991	-6.9	0.000 000	-0.002
	100 %	-10	3969 989 987	-10.7	0.000 000	-0.003
	100 %	0	3969 989 995	-2.8	0.000 000	-0.001
	100 %	+10	3969 989 992	-6.1	0.000 000	-0.002
	100 %	+30	3969 989 993	-4.9	0.000 000	-0.001
	100 %	+40	3969 989 994	-3.5	0.000 000	-0.001
	100 %	+50	3969 989 992	-6.3	0.000 000	-0.002
	Batt. Endpoint	+20	3969 989 995	-3.0	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 500 004	0.0	0.000 000	0.000
	100 %	-30	3712 500 004	-0.1	0.000 000	0.000
	100 %	-20	3712 500 002	-1.7	0.000 000	0.000
	100 %	-10	3712 500 001	-3.1	0.000 000	-0.001
	100 %	0	3712 500 002	-2.0	0.000 000	-0.001
	100 %	+10	3712 500 003	-0.7	0.000 000	0.000
	100 %	+30	3712 500 002	-2.3	0.000 000	-0.001
	100 %	+40	3712 500 000	-3.6	0.000 000	-0.001
	100 %	+50	3712 500 000	-3.5	0.000 000	-0.001
	Batt. Endpoint	+20	3712 500 008	3.6	0.000 000	0.001
3967.500	100 %	+20(Ref)	3967 499 999	0.0	0.000 000	0.000
	100 %	-30	3967 499 996	-2.2	0.000 000	-0.001
	100 %	-20	3967 499 995	-3.5	0.000 000	-0.001
	100 %	-10	3967 499 999	0.5	0.000 000	0.000
	100 %	0	3967 499 994	-4.3	0.000 000	-0.001
	100 %	+10	3967 499 993	-5.1	0.000 000	-0.001
	100 %	+30	3967 499 996	-2.7	0.000 000	-0.001
	100 %	+40	3967 499 997	-1.8	0.000 000	0.000
	100 %	+50	3967 499 995	-3.2	0.000 000	-0.001
	Batt. Endpoint	+20	3967 499 996	-2.8	0.000 000	-0.001

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3715.020	100 %	+20(Ref)	3715 019 997	0.0	0.000 000	0.000
	100 %	-30	3715 019 997	-0.7	0.000 000	0.000
	100 %	-20	3715 020 001	4.0	0.000 000	0.001
	100 %	-10	3715 019 997	-0.3	0.000 000	0.000
	100 %	0	3715 019 999	2.0	0.000 000	0.001
	100 %	+10	3715 019 993	-4.4	0.000 000	-0.001
	100 %	+30	3715 019 996	-0.9	0.000 000	0.000
	100 %	+40	3715 019 998	0.4	0.000 000	0.000
	100 %	+50	3715 019 996	-1.4	0.000 000	0.000
	Batt. Endpoint	+20	3715 019 995	-2.6	0.000 000	-0.001
3964.980	100 %	+20(Ref)	3964 979 995	0.0	0.000 000	0.000
	100 %	-30	3964 979 990	-5.1	0.000 000	-0.001
	100 %	-20	3964 979 986	-9.6	0.000 000	-0.002
	100 %	-10	3964 979 990	-5.4	0.000 000	-0.001
	100 %	0	3964 979 993	-2.5	0.000 000	-0.001
	100 %	+10	3964 979 991	-4.7	0.000 000	-0.001
	100 %	+30	3964 979 988	-7.8	0.000 000	-0.002
	100 %	+40	3964 979 992	-3.7	0.000 000	-0.001
	100 %	+50	3964 979 990	-5.1	0.000 000	-0.001
	Batt. Endpoint	+20	3964 979 990	-5.7	0.000 000	-0.001

- ▣ 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 999 999	0.0	0.000 000	0.000
	100 %	-30	3719 999 995	-3.8	0.000 000	-0.001
	100 %	-20	3719 999 997	-1.9	0.000 000	-0.001
	100 %	-10	3719 999 997	-2.0	0.000 000	-0.001
	100 %	0	3719 999 996	-3.7	0.000 000	-0.001
	100 %	+10	3719 999 992	-6.8	0.000 000	-0.002
	100 %	+30	3719 999 994	-4.8	0.000 000	-0.001
	100 %	+40	3719 999 995	-3.8	0.000 000	-0.001
	100 %	+50	3719 999 997	-2.7	0.000 000	-0.001
	Batt. Endpoint	+20	3720 000 000	0.6	0.000 000	0.000
3960.000	100 %	+20(Ref)	3959 999 994	0.0	0.000 000	0.000
	100 %	-30	3959 999 991	-3.3	0.000 000	-0.001
	100 %	-20	3959 999 994	-0.6	0.000 000	0.000
	100 %	-10	3959 999 991	-3.0	0.000 000	-0.001
	100 %	0	3959 999 986	-8.1	0.000 000	-0.002
	100 %	+10	3959 999 993	-1.5	0.000 000	0.000
	100 %	+30	3959 999 991	-3.7	0.000 000	-0.001
	100 %	+40	3959 999 992	-2.5	0.000 000	-0.001
	100 %	+50	3959 999 991	-2.9	0.000 000	-0.001
	Batt. Endpoint	+20	3959 999 993	-1.7	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 009 997	-1.3	0.000 000	0.000
	100 %	-20	3725 009 997	-2.2	0.000 000	-0.001
	100 %	-10	3725 009 996	-2.9	0.000 000	-0.001
	100 %	0	3725 009 993	-5.7	0.000 000	-0.002
	100 %	+10	3725 009 992	-6.5	0.000 000	-0.002
	100 %	+30	3725 009 997	-1.9	0.000 000	-0.001
	100 %	+40	3725 009 997	-1.6	0.000 000	0.000
	100 %	+50	3725 009 997	-1.8	0.000 000	0.000
	Batt. Endpoint	+20	3725 010 003	3.8	0.000 000	0.001
3954.990	100 %	+20(Ref)	3954 989 990	0.0	0.000 000	0.000
	100 %	-30	3954 989 987	-2.6	0.000 000	-0.001
	100 %	-20	3954 989 978	-12.0	0.000 000	-0.003
	100 %	-10	3954 989 987	-2.8	0.000 000	-0.001
	100 %	0	3954 989 986	-3.6	0.000 000	-0.001
	100 %	+10	3954 989 982	-7.8	0.000 000	-0.002
	100 %	+30	3954 989 993	2.9	0.000 000	0.001
	100 %	+40	3954 989 986	-4.2	0.000 000	-0.001
	100 %	+50	3954 989 984	-5.7	0.000 000	-0.001
	Batt. Endpoint	+20	3954 989 984	-5.7	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 020 001	0.0	0.000 000	0.000
	100 %	-30	3730 020 005	3.9	0.000 000	0.001
	100 %	-20	3730 020 000	-1.8	0.000 000	0.000
	100 %	-10	3730 019 999	-2.7	0.000 000	-0.001
	100 %	0	3730 020 003	1.1	0.000 000	0.000
	100 %	+10	3730 019 997	-4.3	0.000 000	-0.001
	100 %	+30	3730 020 003	2.0	0.000 000	0.001
	100 %	+40	3730 020 000	-1.7	0.000 000	0.000
	100 %	+50	3730 020 003	2.0	0.000 000	0.001
	Batt. Endpoint	+20	3730 020 002	0.1	0.000 000	0.000
3949.980	100 %	+20(Ref)	3949 979 995	0.0	0.000 000	0.000
	100 %	-30	3949 979 989	-6.7	0.000 000	-0.002
	100 %	-20	3949 979 993	-2.2	0.000 000	-0.001
	100 %	-10	3949 979 993	-2.4	0.000 000	-0.001
	100 %	0	3949 979 993	-2.3	0.000 000	-0.001
	100 %	+10	3949 979 987	-7.9	0.000 000	-0.002
	100 %	+30	3949 979 987	-7.9	0.000 000	-0.002
	100 %	+40	3949 979 991	-4.3	0.000 000	-0.001
	100 %	+50	3949 979 993	-2.7	0.000 000	-0.001
	Batt. Endpoint	+20	3949 979 989	-5.9	0.000 000	-0.002

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

Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3735.000	100 %	+20(Ref)	3734 999 996	0.0	0.000 000	0.000
	100 %	-30	3734 999 994	-2.0	0.000 000	-0.001
	100 %	-20	3734 999 993	-2.8	0.000 000	-0.001
	100 %	-10	3734 999 992	-4.1	0.000 000	-0.001
	100 %	0	3734 999 998	1.7	0.000 000	0.000
	100 %	+10	3734 999 996	-0.5	0.000 000	0.000
	100 %	+30	3734 999 997	0.9	0.000 000	0.000
	100 %	+40	3734 999 993	-3.2	0.000 000	-0.001
	100 %	+50	3734 999 992	-4.5	0.000 000	-0.001
	Batt. Endpoint	+20	3734 999 993	-3.4	0.000 000	-0.001
3945.000	100 %	+20(Ref)	3944 999 996	0.0	0.000 000	0.000
	100 %	-30	3944 999 991	-5.3	0.000 000	-0.001
	100 %	-20	3944 999 993	-2.8	0.000 000	-0.001
	100 %	-10	3944 999 993	-2.8	0.000 000	-0.001
	100 %	0	3944 999 988	-8.2	0.000 000	-0.002
	100 %	+10	3944 999 996	-0.6	0.000 000	0.000
	100 %	+30	3944 999 994	-2.7	0.000 000	-0.001
	100 %	+40	3944 999 993	-2.7	0.000 000	-0.001
	100 %	+50	3944 999 995	-1.5	0.000 000	0.000
	Batt. Endpoint	+20	3944 999 997	0.8	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 009 996	-3.3	0.000 000	-0.001
	100 %	-20	3740 009 999	-0.8	0.000 000	0.000
	100 %	-10	3740 009 997	-2.6	0.000 000	-0.001
	100 %	0	3740 009 997	-2.5	0.000 000	-0.001
	100 %	+10	3740 009 997	-2.1	0.000 000	-0.001
	100 %	+30	3740 010 000	0.4	0.000 000	0.000
	100 %	+40	3740 009 998	-2.0	0.000 000	-0.001
	100 %	+50	3740 009 997	-2.2	0.000 000	-0.001
	Batt. Endpoint	+20	3740 010 000	0.2	0.000 000	0.000
3939.990	100 %	+20(Ref)	3939 989 993	0.0	0.000 000	0.000
	100 %	-30	3939 989 989	-4.2	0.000 000	-0.001
	100 %	-20	3939 989 988	-4.6	0.000 000	-0.001
	100 %	-10	3939 989 989	-3.4	0.000 000	-0.001
	100 %	0	3939 989 992	-0.9	0.000 000	0.000
	100 %	+10	3939 989 992	-0.6	0.000 000	0.000
	100 %	+30	3939 989 992	-0.6	0.000 000	0.000
	100 %	+40	3939 989 991	-2.0	0.000 000	-0.001
	100 %	+50	3939 989 987	-5.4	0.000 000	-0.001
	Batt. Endpoint	+20	3939 989 987	-5.8	0.000 000	-0.001

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

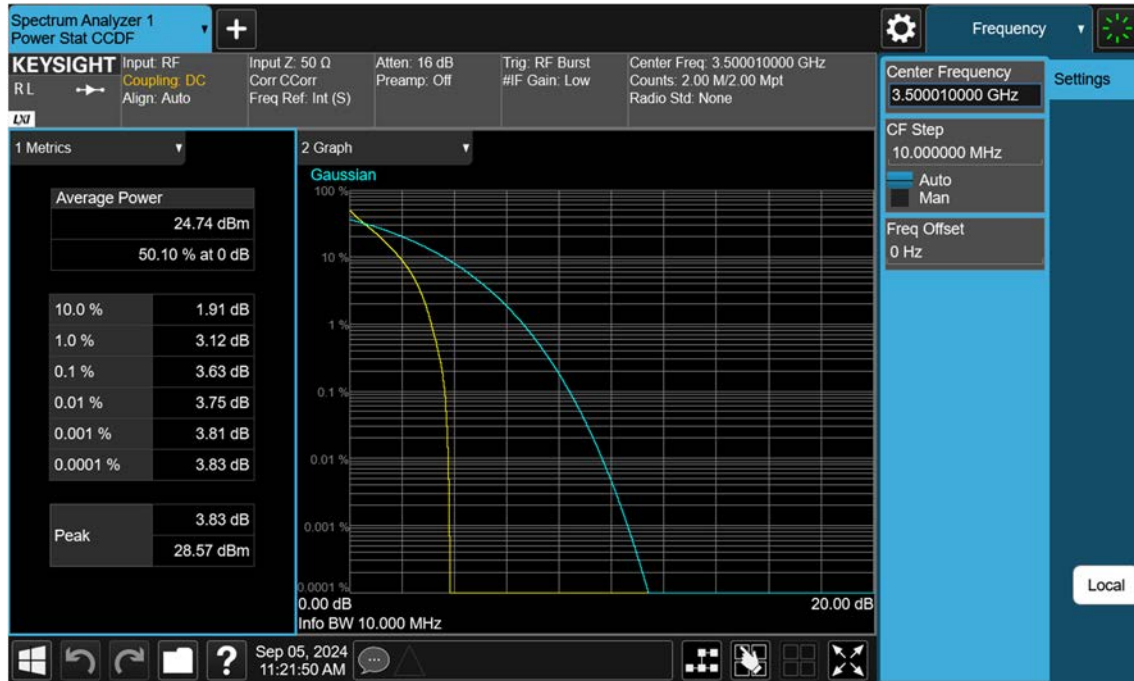
Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3745.020	100 %	+20(Ref)	3745 019 998	0.0	0.000 000	0.000
	100 %	-30	3745 019 998	-0.3	0.000 000	0.000
	100 %	-20	3745 020 001	2.8	0.000 000	0.001
	100 %	-10	3745 019 991	-6.6	0.000 000	-0.002
	100 %	0	3745 019 992	-6.0	0.000 000	-0.002
	100 %	+10	3745 019 991	-6.5	0.000 000	-0.002
	100 %	+30	3745 019 998	0.0	0.000 000	0.000
	100 %	+40	3745 019 997	-0.6	0.000 000	0.000
	100 %	+50	3745 019 996	-1.5	0.000 000	0.000
	Batt. Endpoint	+20	3745 019 997	-0.6	0.000 000	0.000
3934.980	100 %	+20(Ref)	3934 980 000	0.0	0.000 000	0.000
	100 %	-30	3934 979 991	-8.3	0.000 000	-0.002
	100 %	-20	3934 979 998	-1.3	0.000 000	0.000
	100 %	-10	3934 979 997	-3.0	0.000 000	-0.001
	100 %	0	3934 979 997	-3.0	0.000 000	-0.001
	100 %	+10	3934 979 994	-5.2	0.000 000	-0.001
	100 %	+30	3934 979 994	-5.6	0.000 000	-0.001
	100 %	+40	3934 979 997	-2.1	0.000 000	-0.001
	100 %	+50	3934 979 993	-6.2	0.000 000	-0.002
	Batt. Endpoint	+20	3934 979 993	-6.6	0.000 000	-0.002

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

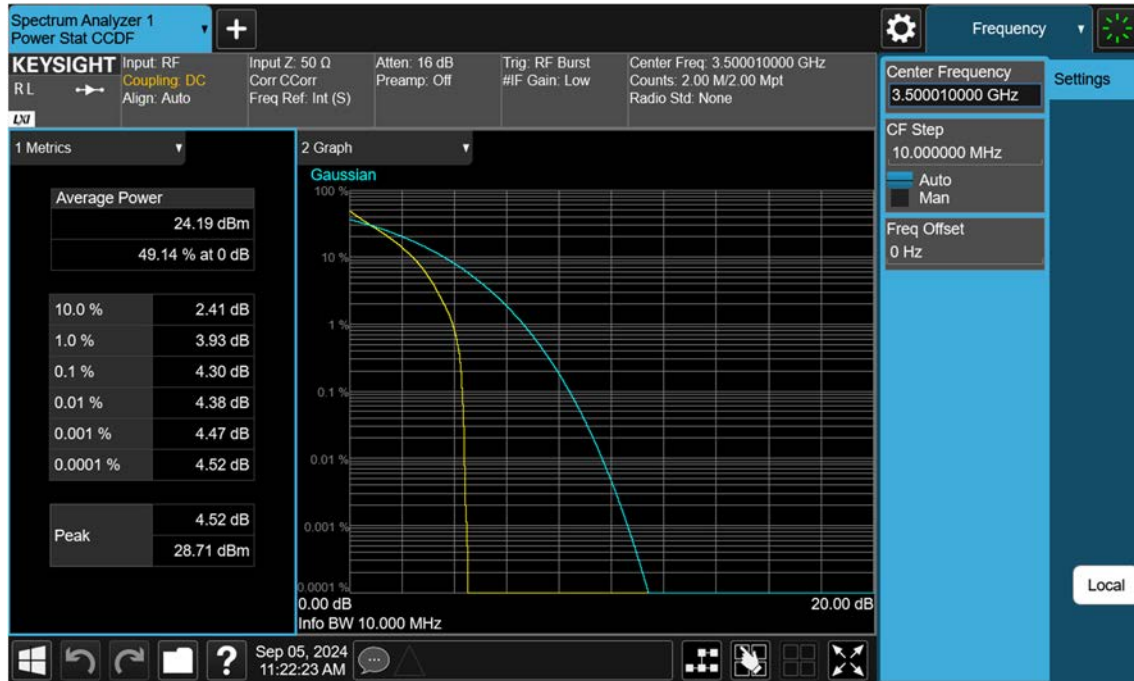
Test. Frequency	Voltage	Temp.	Frequency	Frequency	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	Error (Hz)	(%)	
3750.000	100 %	+20(Ref)	3749 999 998	0.0	0.000 000	0.000
	100 %	-30	3749 999 995	-3.8	0.000 000	-0.001
	100 %	-20	3749 999 996	-2.6	0.000 000	-0.001
	100 %	-10	3749 999 996	-2.6	0.000 000	-0.001
	100 %	0	3749 999 993	-5.5	0.000 000	-0.001
	100 %	+10	3749 999 997	-1.0	0.000 000	0.000
	100 %	+30	3749 999 997	-1.3	0.000 000	0.000
	100 %	+40	3749 999 998	-0.1	0.000 000	0.000
	100 %	+50	3749 999 994	-4.5	0.000 000	-0.001
	Batt. Endpoint	+20	3749 999 996	-2.5	0.000 000	-0.001
3930.000	100 %	+20(Ref)	3930 000 002	0.0	0.000 000	0.000
	100 %	-30	3930 000 003	1.7	0.000 000	0.000
	100 %	-20	3929 999 997	-4.6	0.000 000	-0.001
	100 %	-10	3929 999 995	-6.3	0.000 000	-0.002
	100 %	0	3929 999 997	-5.0	0.000 000	-0.001
	100 %	+10	3930 000 000	-1.6	0.000 000	0.000
	100 %	+30	3929 999 998	-3.3	0.000 000	-0.001
	100 %	+40	3929 999 998	-3.6	0.000 000	-0.001
	100 %	+50	3929 999 998	-3.6	0.000 000	-0.001
	Batt. Endpoint	+20	3930 000 003	1.2	0.000 000	0.000

10. TEST PLOTS(3450 MHz - 3550 MHz)

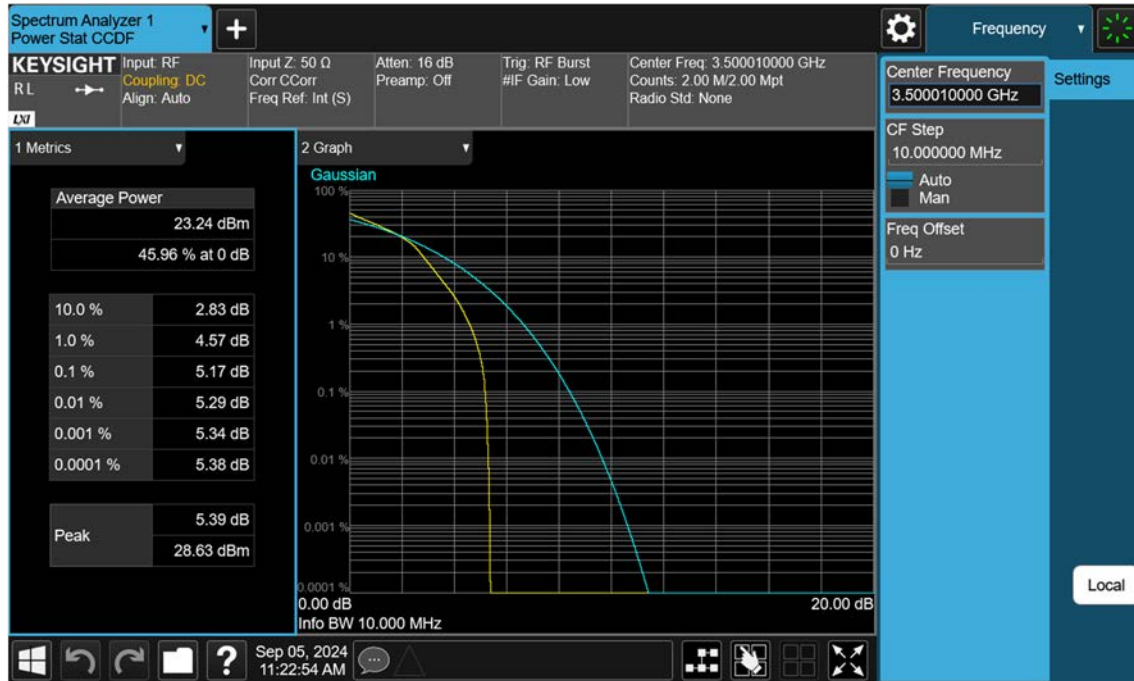
n77(3450~3550 MHz)_10 M_PAR_Mid_BPSK_FullRB



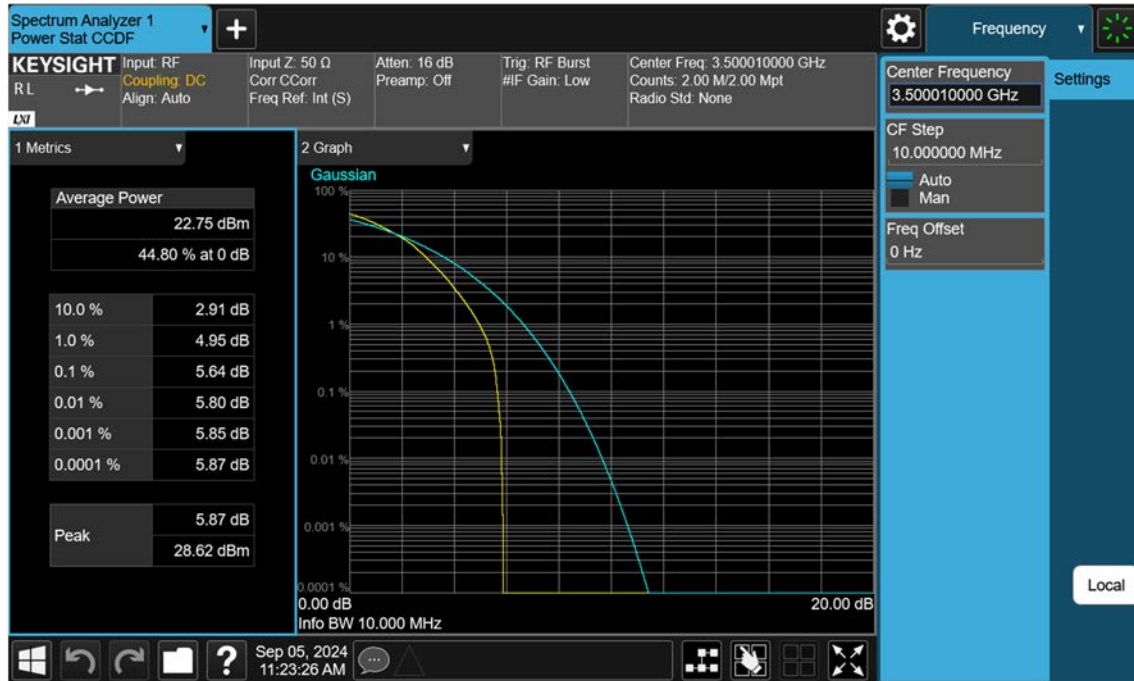
n77(3450~3550 MHz)_10 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_10 M_PAR_Mid_16QAM_FullRB



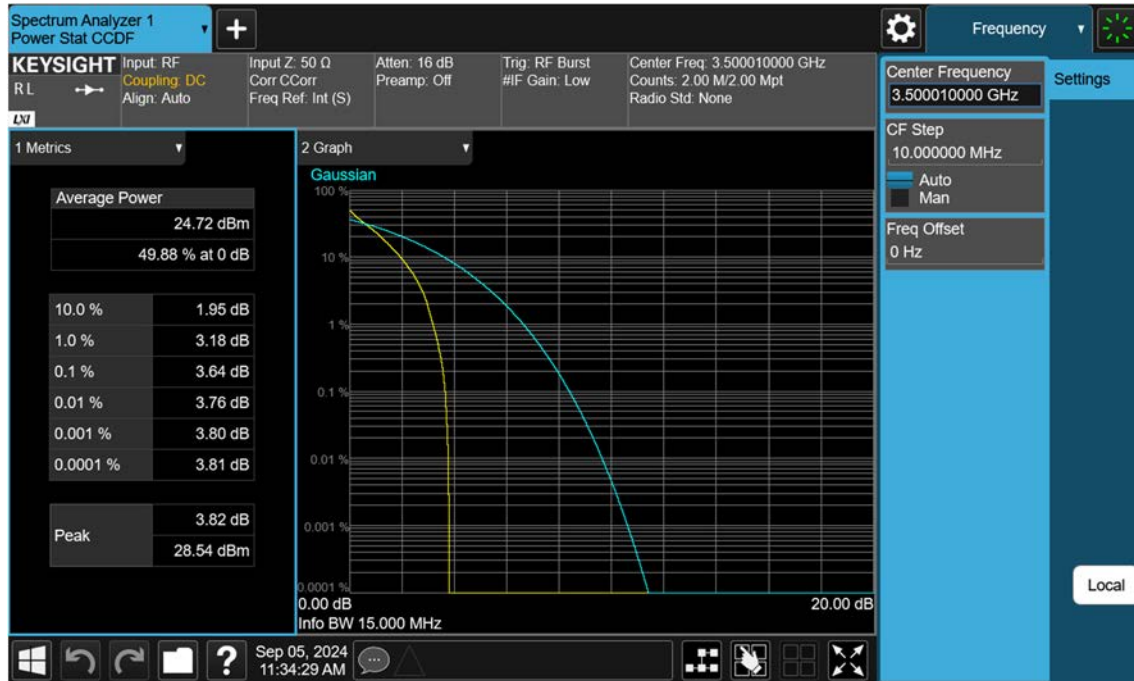
n77(3450~3550 MHz)_10 M_PAR_Mid_64QAM_FullRB



n77(3450~3550 MHz)_10 M_PAR_Mid_256QAM_FullRB



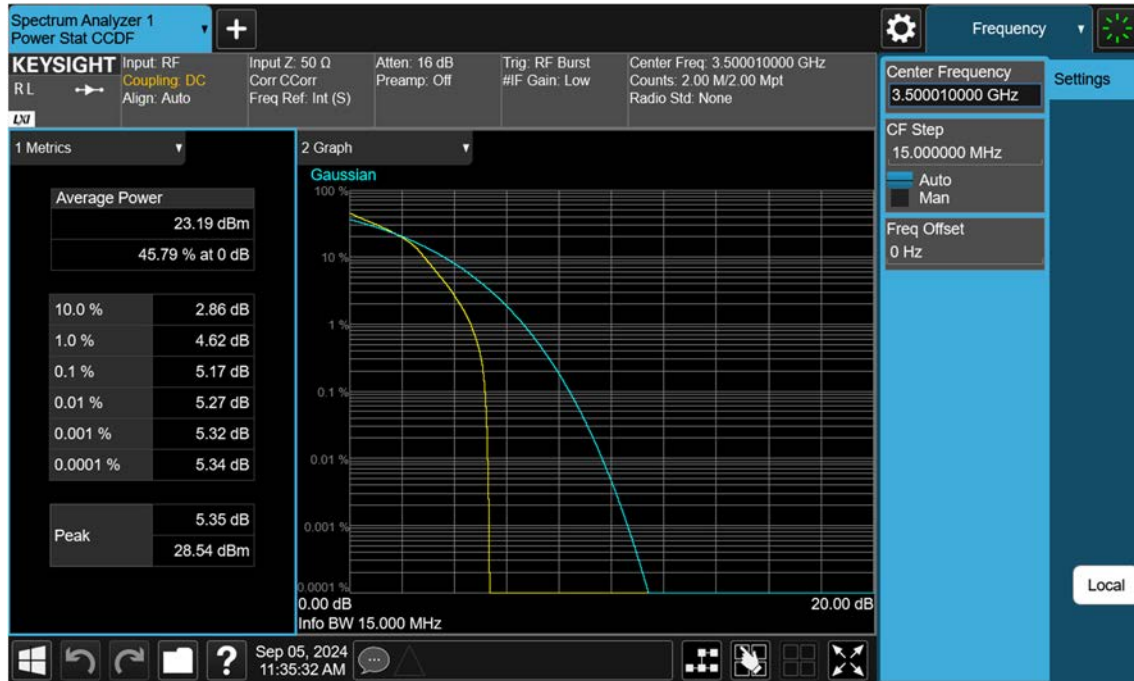
n77(3450~3550 MHz)_15 M_PAR_Mid_BPSK_FullRB



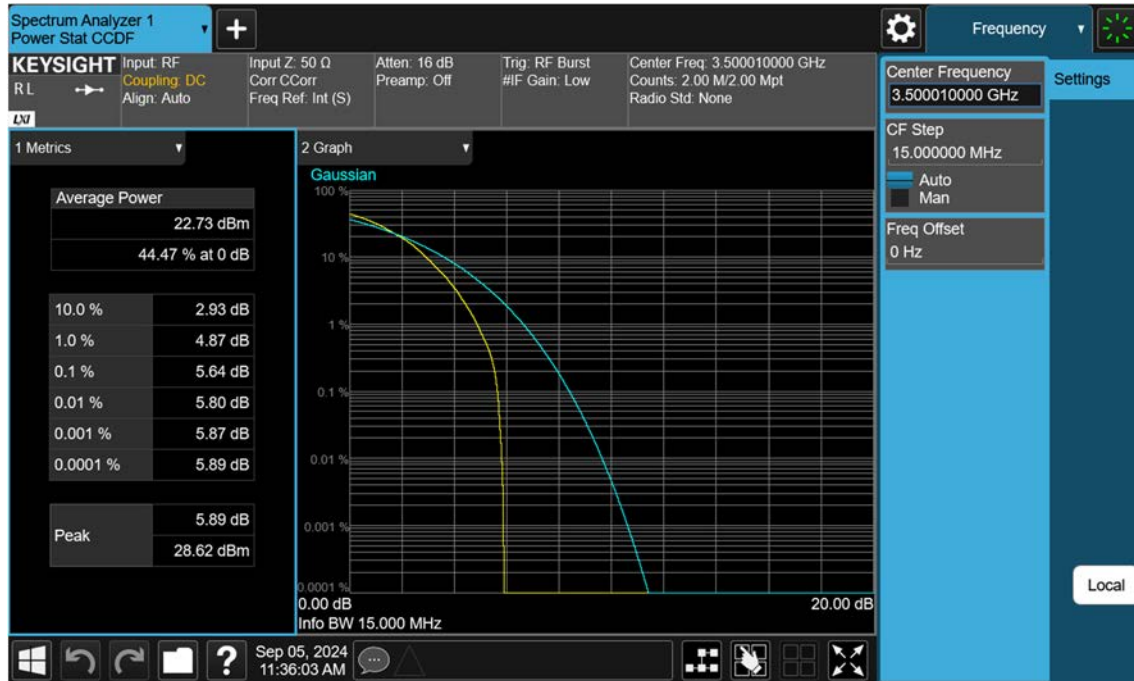
n77(3450~3550 MHz)_15 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_15 M_PAR_Mid_16QAM_FullRB



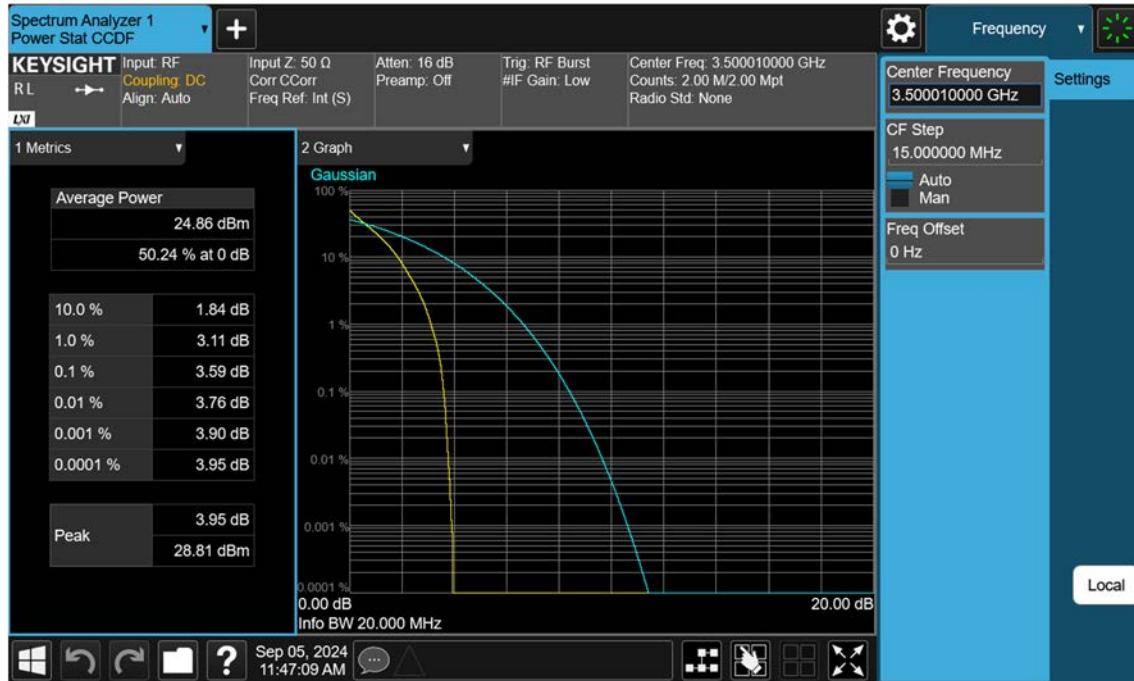
n77(3450~3550 MHz)_15 M_PAR_Mid_64QAM_FullRB



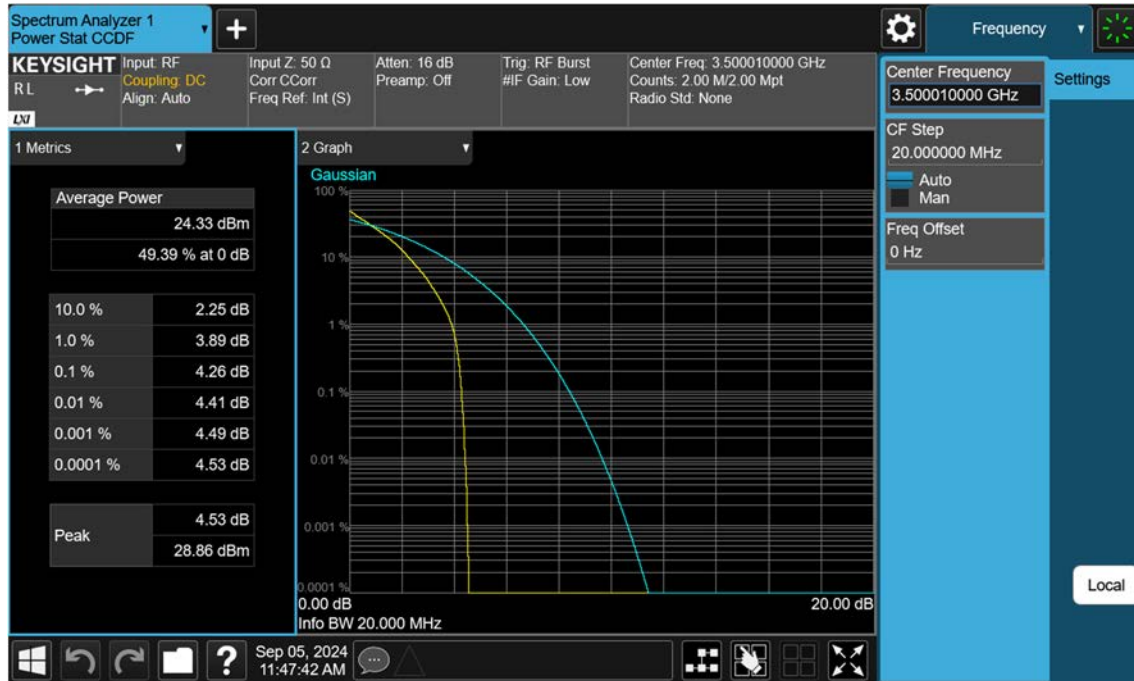
n77(3450~3550 MHz)_15 M_PAR_Mid_256QAM_FullRB



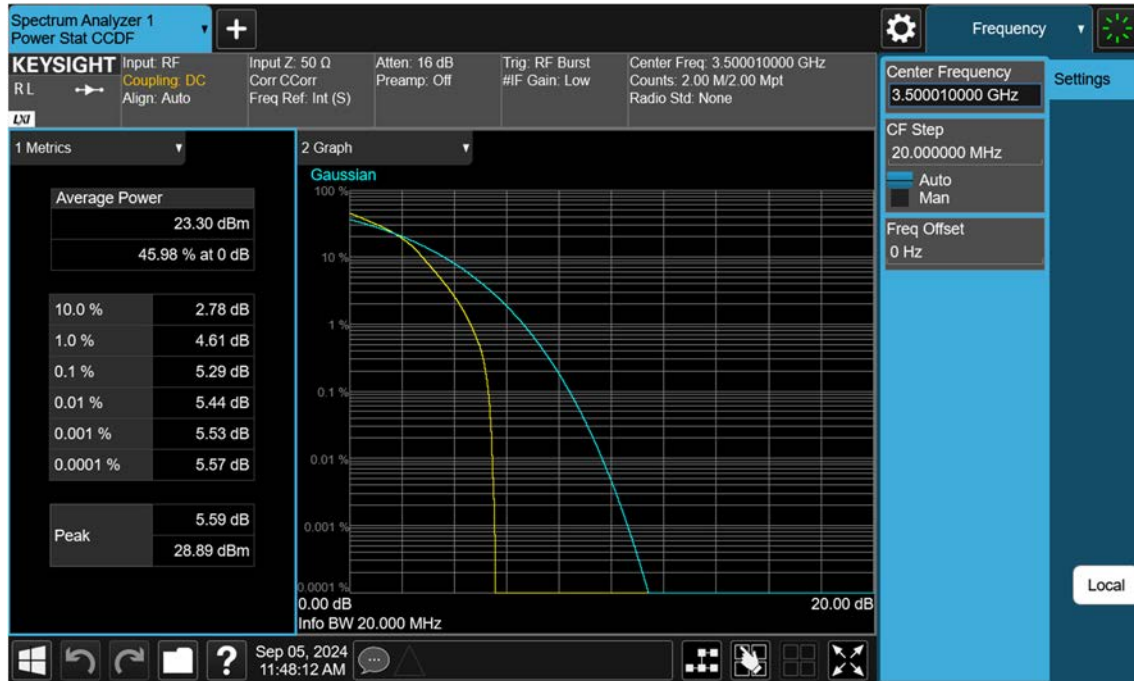
n77(3450~3550 MHz)_20 M_PAR_Mid_BPSK_FullRB



n77(3450~3550 MHz)_20 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_20 M_PAR_Mid_16QAM_FullRB



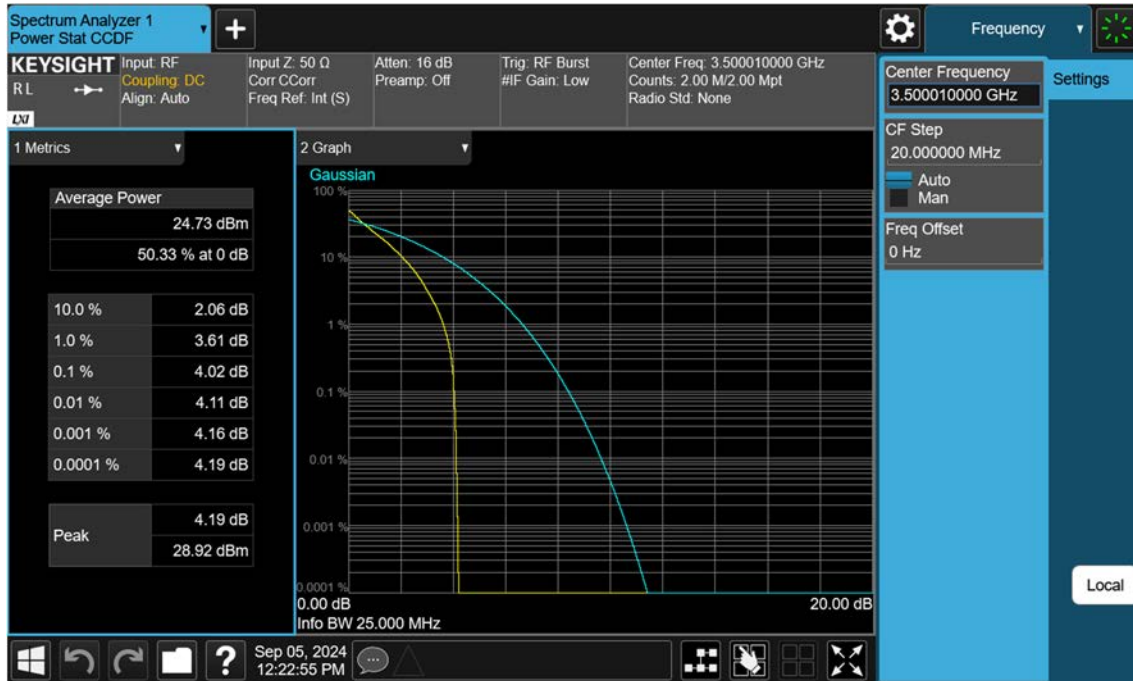
n77(3450~3550 MHz)_20 M_PAR_Mid_64QAM_FullRB



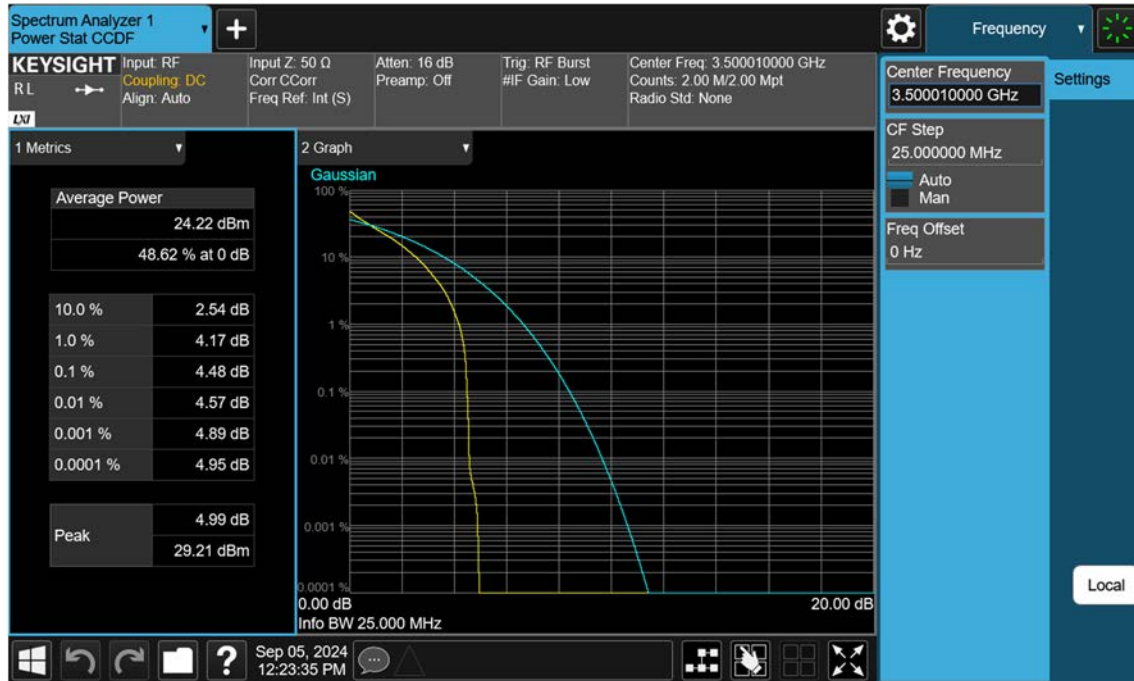
n77(3450~3550 MHz)_20 M_PAR_Mid_256QAM_FullRB



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



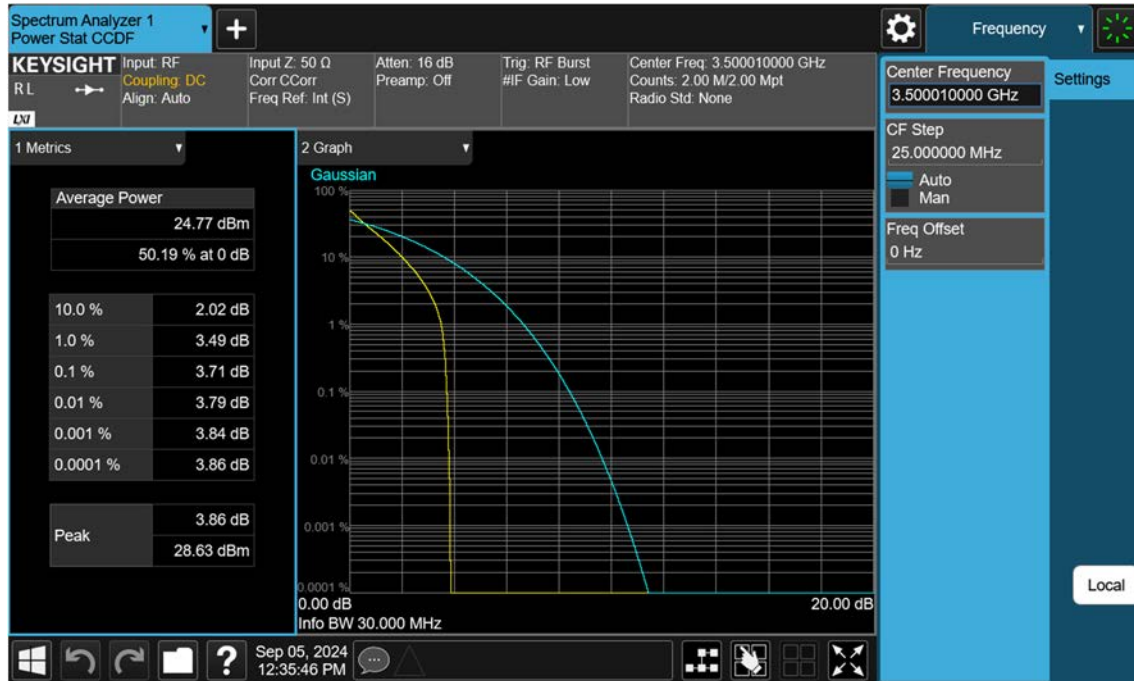
n77(3450~3550 MHz)_25 M_PAR_Mid_64QAM_FullRB



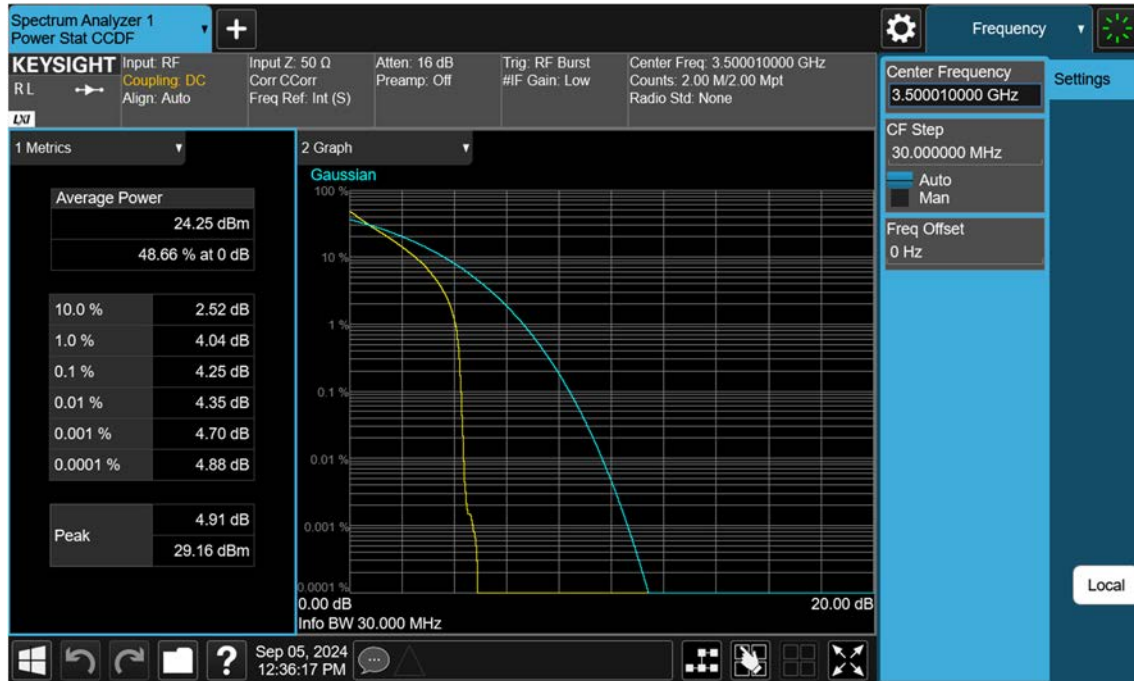
n77(3450~3550 MHz)_25 M_PAR_Mid_256QAM_FullRB



n77(3450~3550 MHz)_30 M_PAR_Mid_BPSK_FullRB



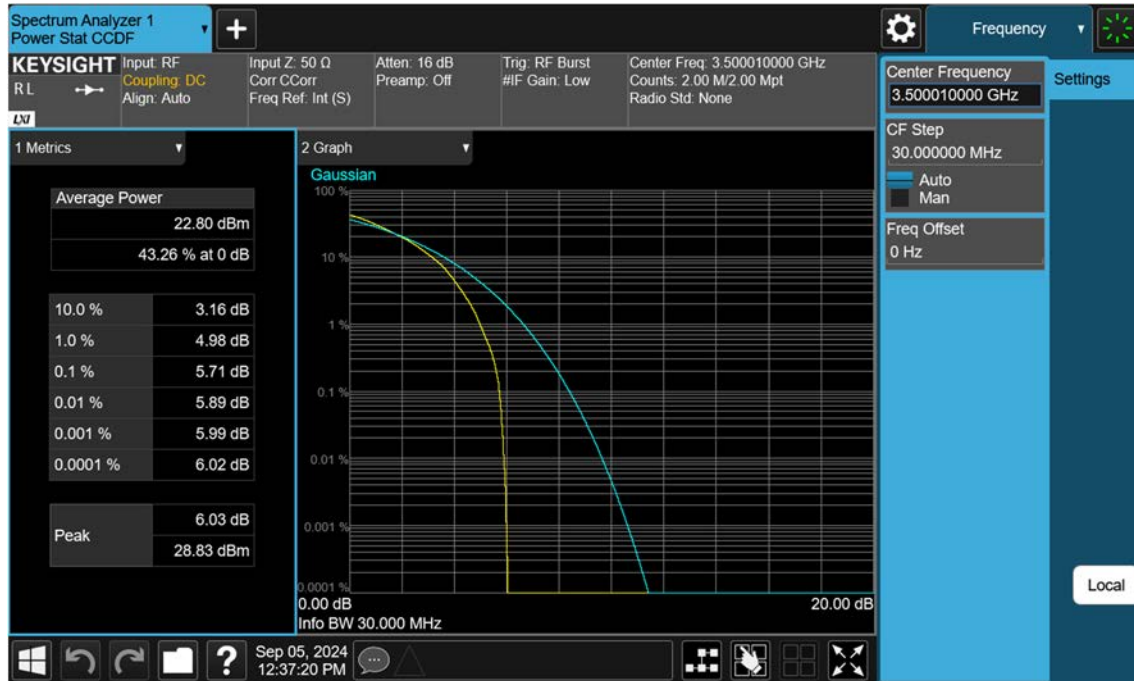
n77(3450~3550 MHz)_30 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_30 M_PAR_Mid_16QAM_FullRB



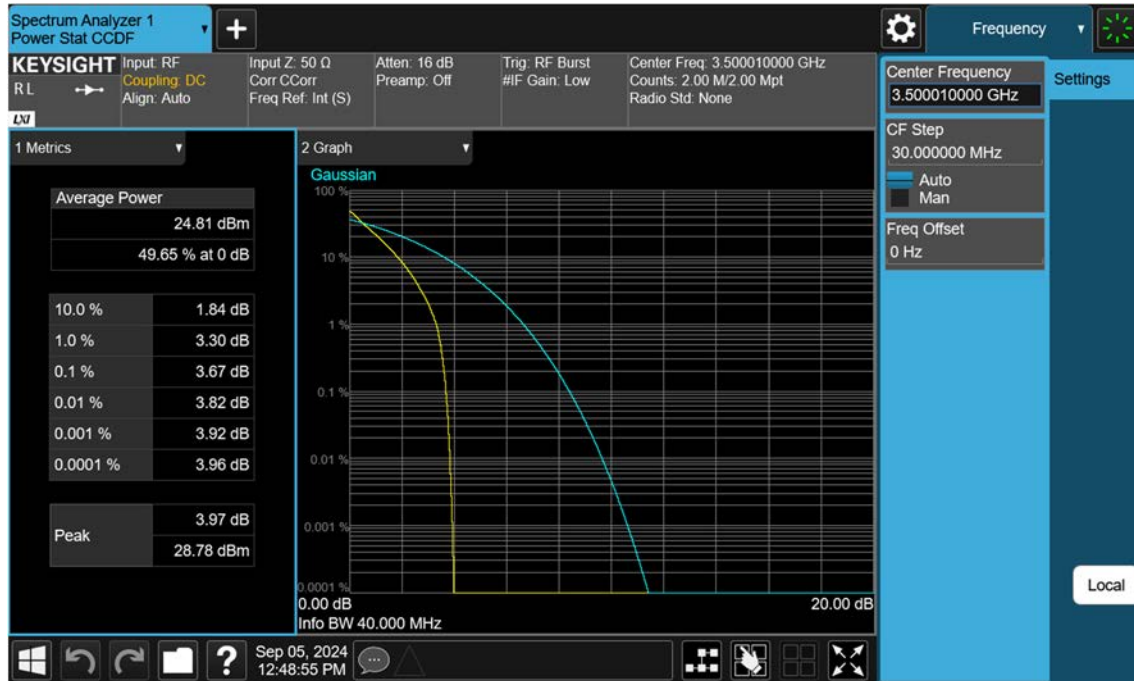
n77(3450~3550 MHz)_30 M_PAR_Mid_64QAM_FullRB



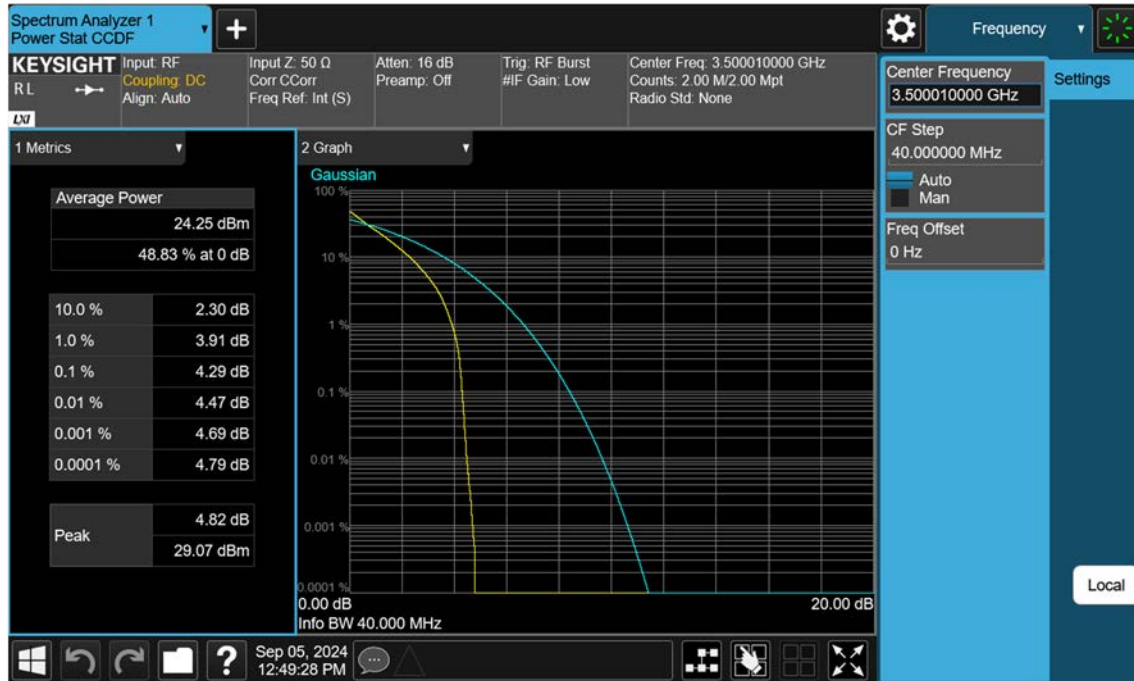
n77(3450~3550 MHz)_30 M_PAR_Mid_256QAM_FullRB



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



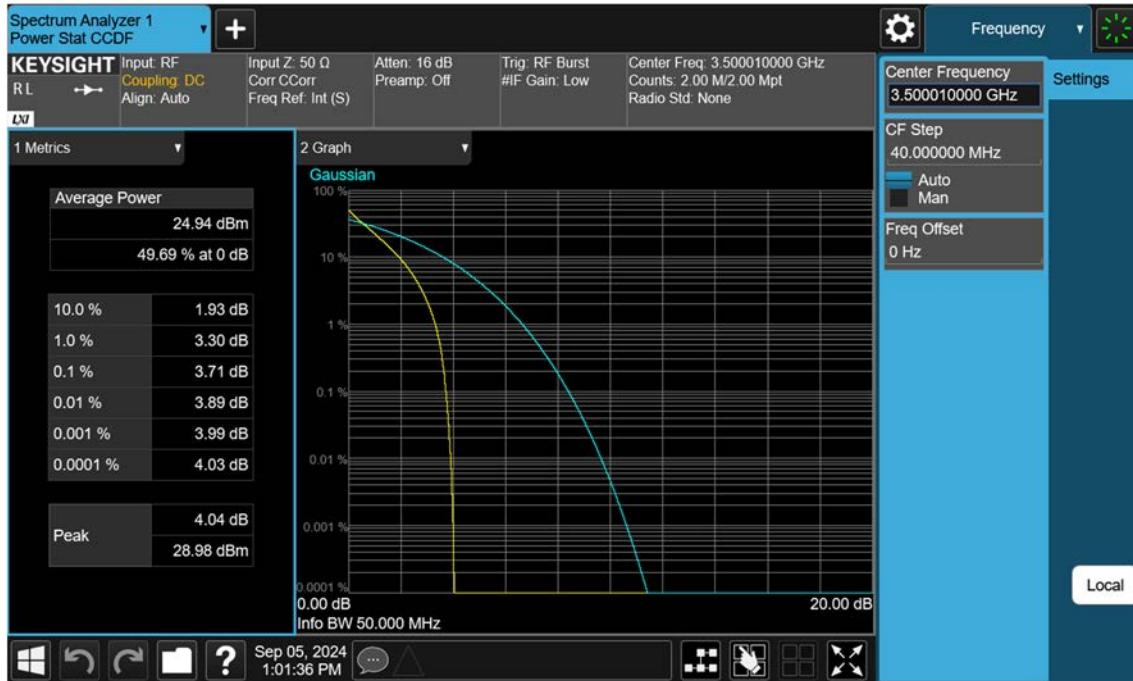
n77(3450~3550 MHz)_40 M_PAR_Mid_64QAM_FullRB



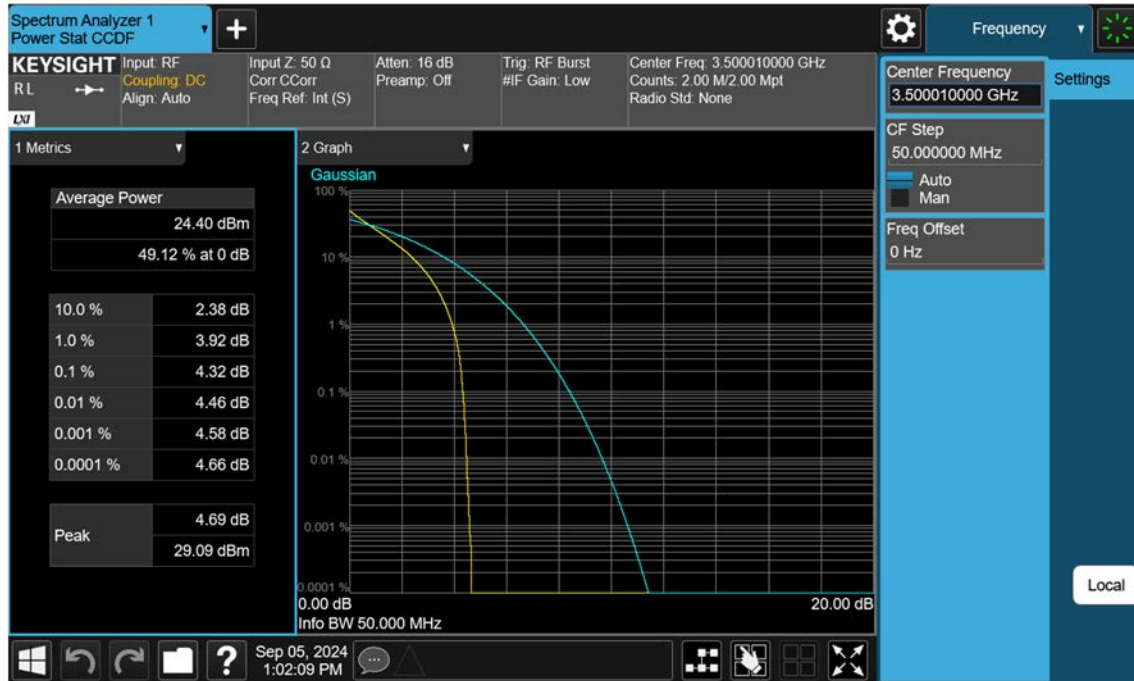
n77(3450~3550 MHz)_40 M_PAR_Mid_256QAM_FullRB



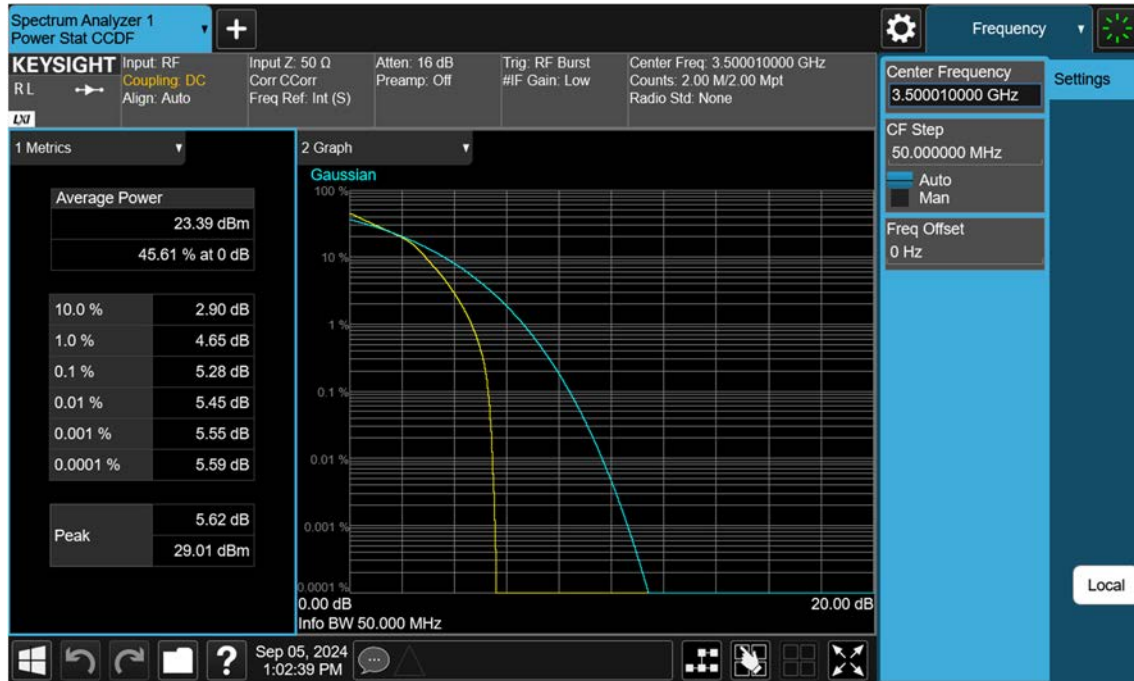
n77(3450~3550 MHz)_50 M_PAR_Mid_BPSK_FullRB



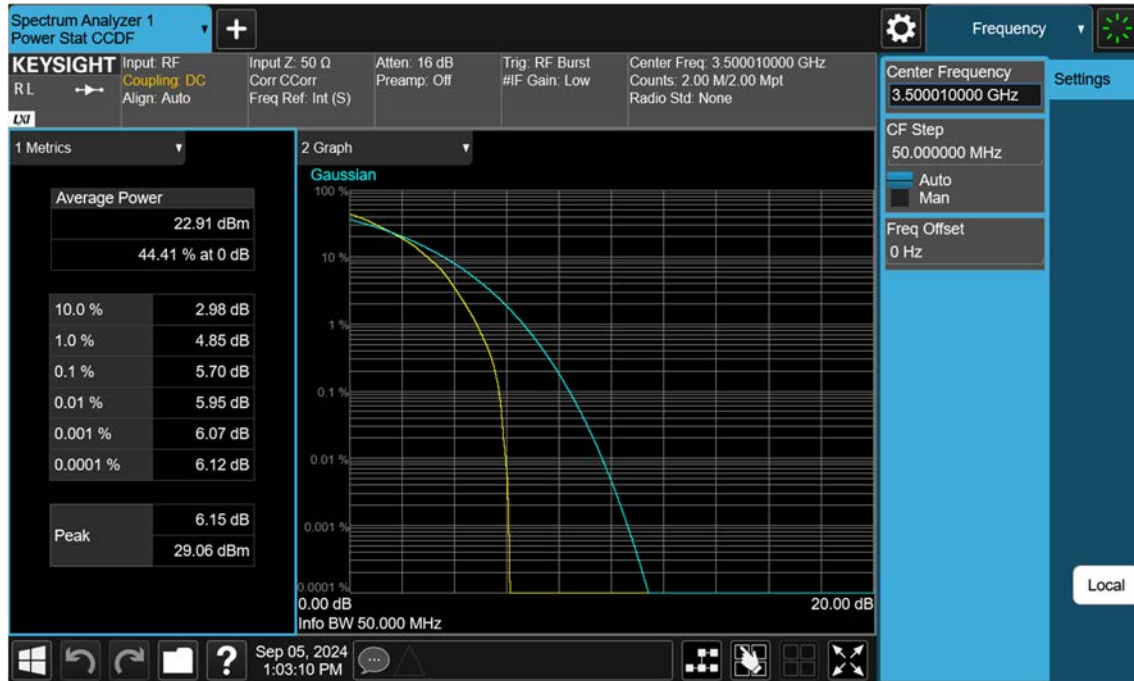
n77(3450~3550 MHz)_50 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_50 M_PAR_Mid_16QAM_FullRB



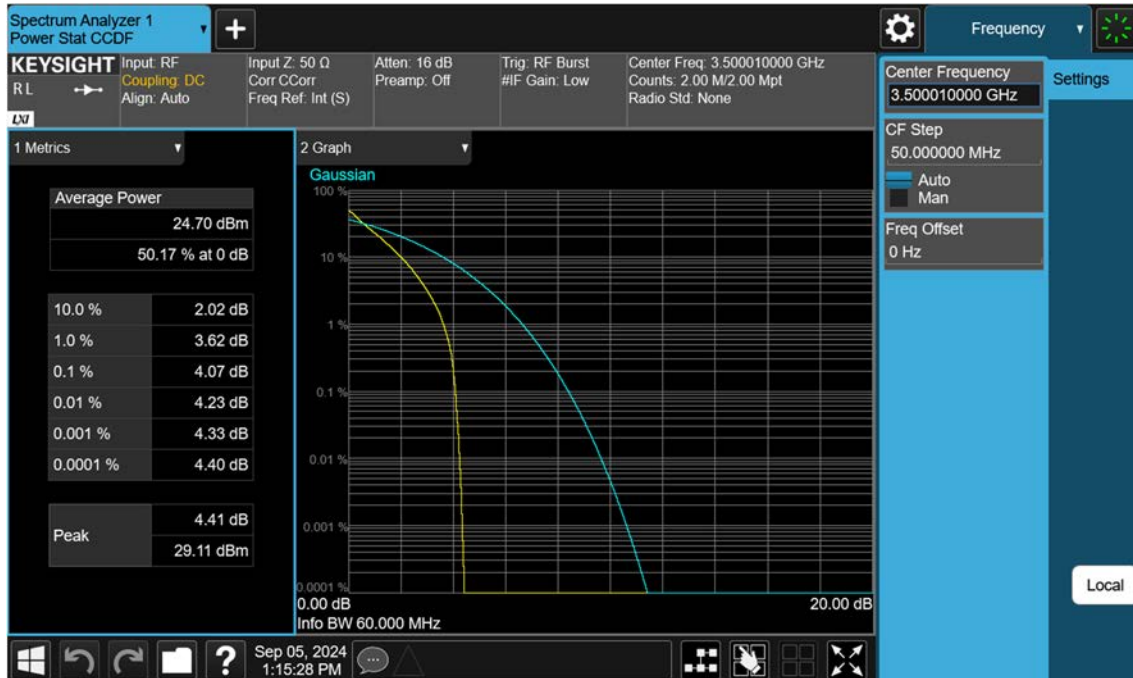
n77(3450~3550 MHz)_50 M_PAR_Mid_64QAM_FullRB



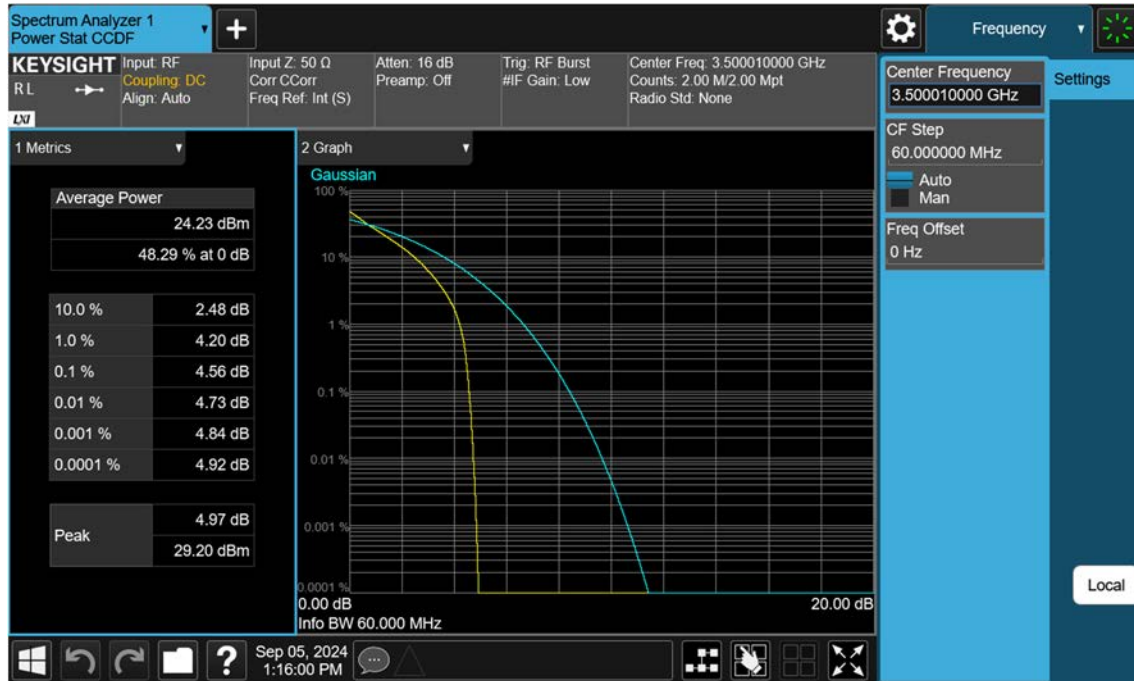
n77(3450~3550 MHz)_50 M_PAR_Mid_256QAM_FullRB



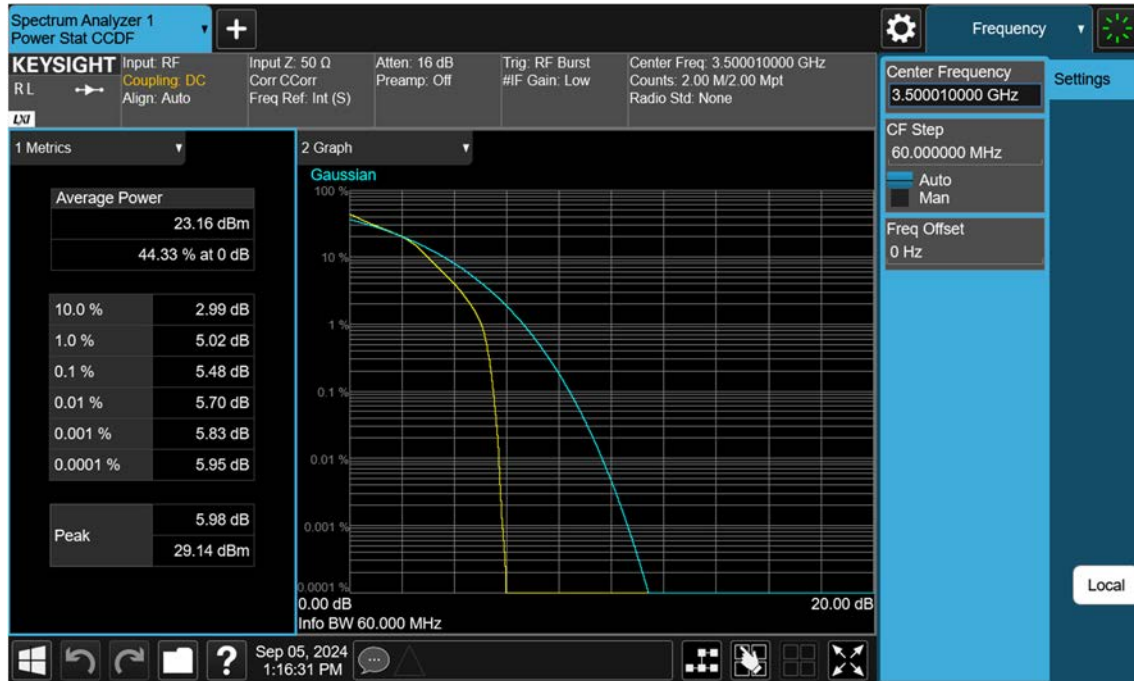
n77(3450~3550 MHz)_60 M_PAR_Mid_BPSK_FullRB



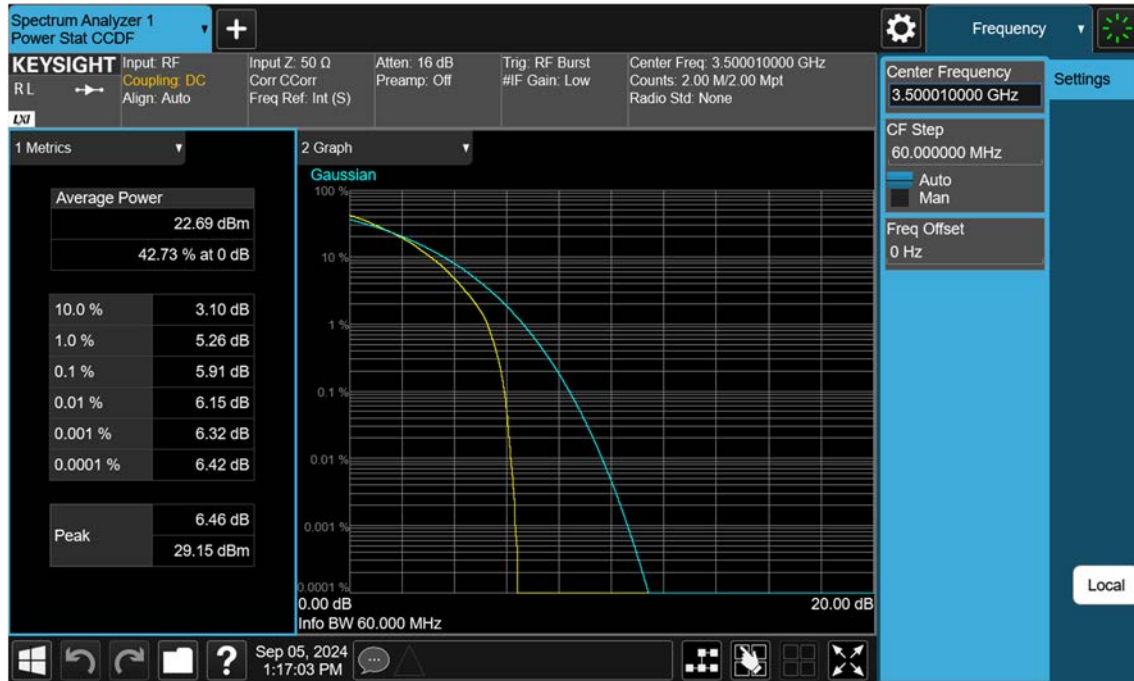
n77(3450~3550 MHz)_60 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_60 M_PAR_Mid_16QAM_FullRB



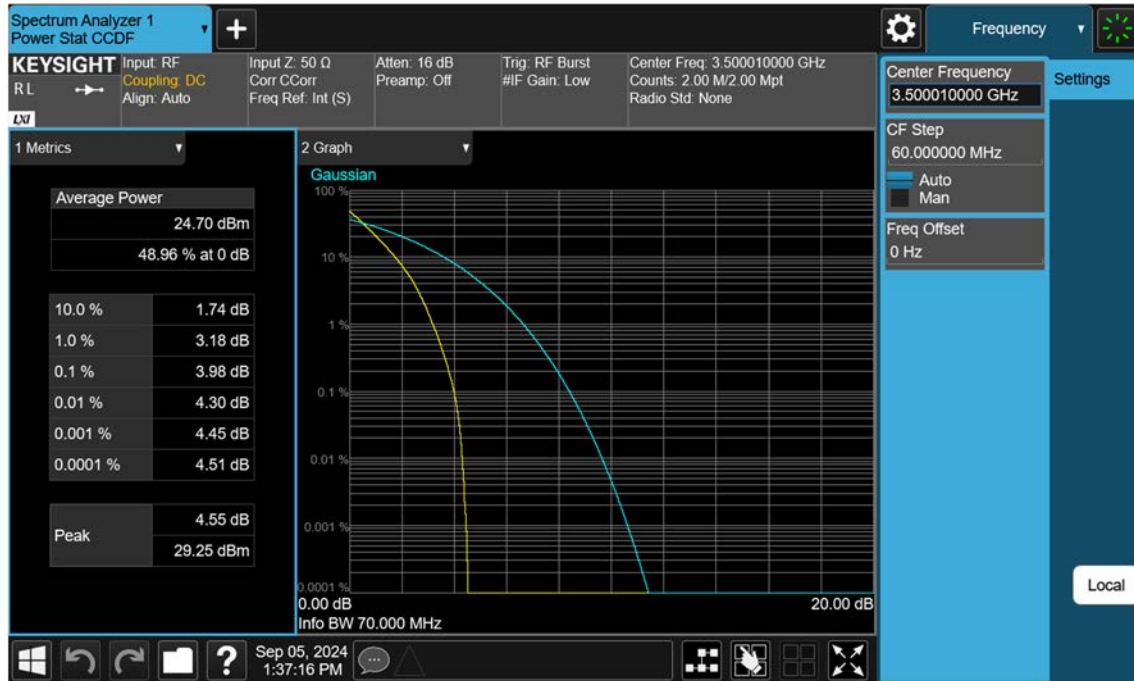
n77(3450~3550 MHz)_60 M_PAR_Mid_64QAM_FullRB



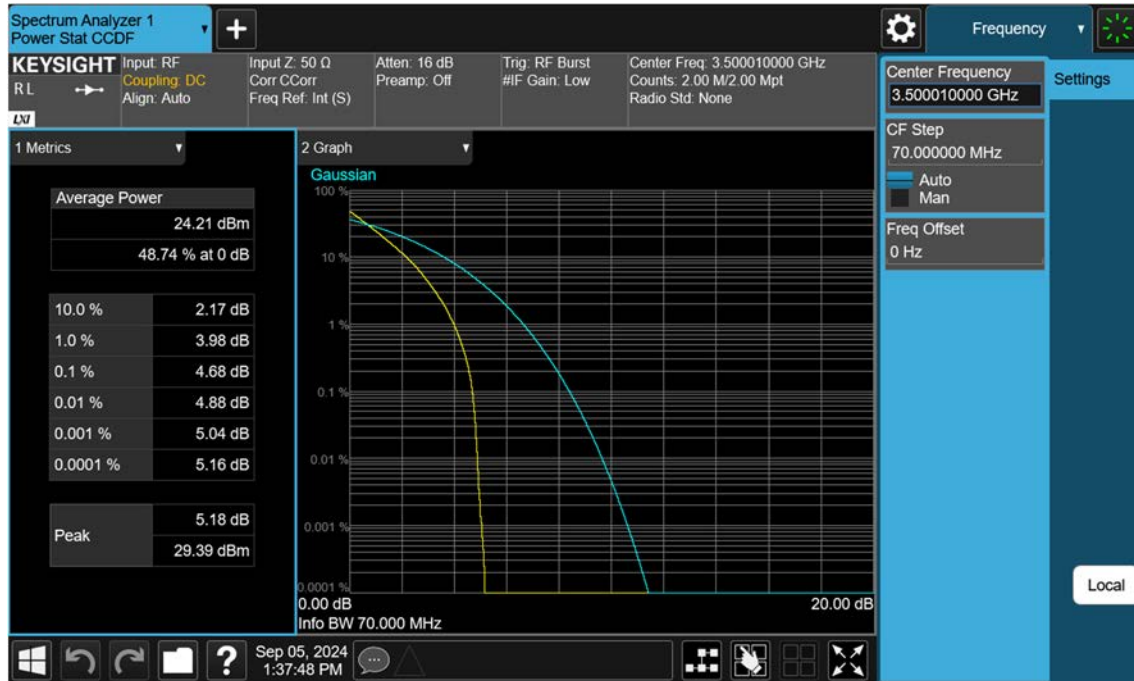
n77(3450~3550 MHz)_60 M_PAR_Mid_256QAM_FullRB



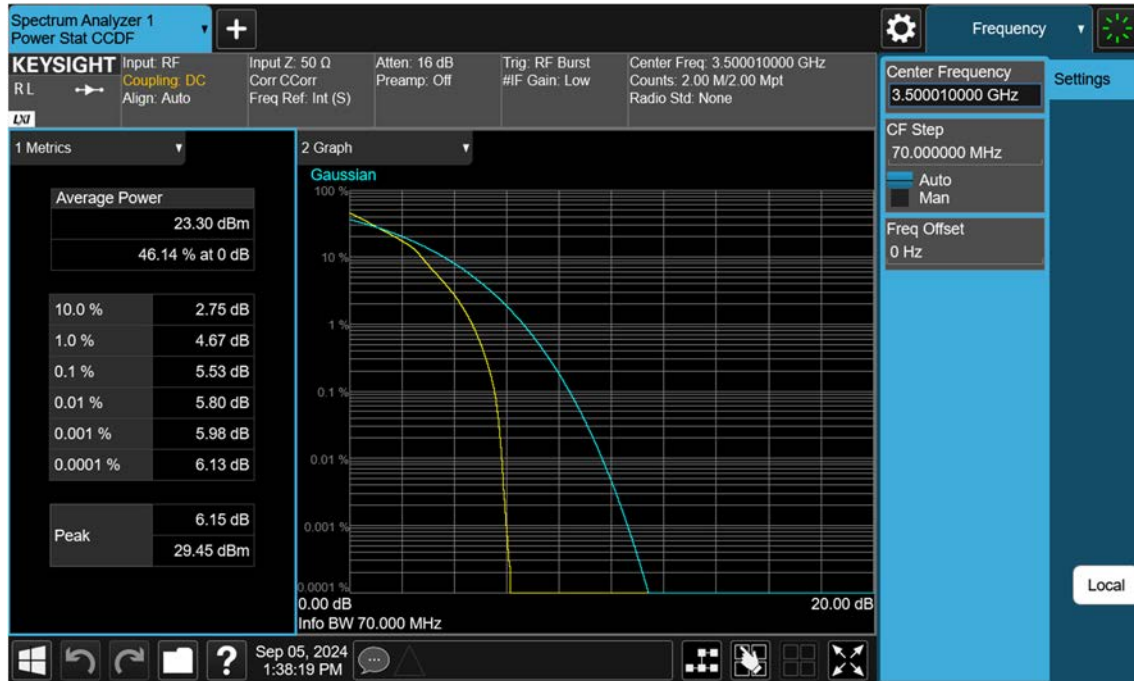
n77(3450~3550 MHz)_70 M_PAR_Mid_BPSK_FullRB



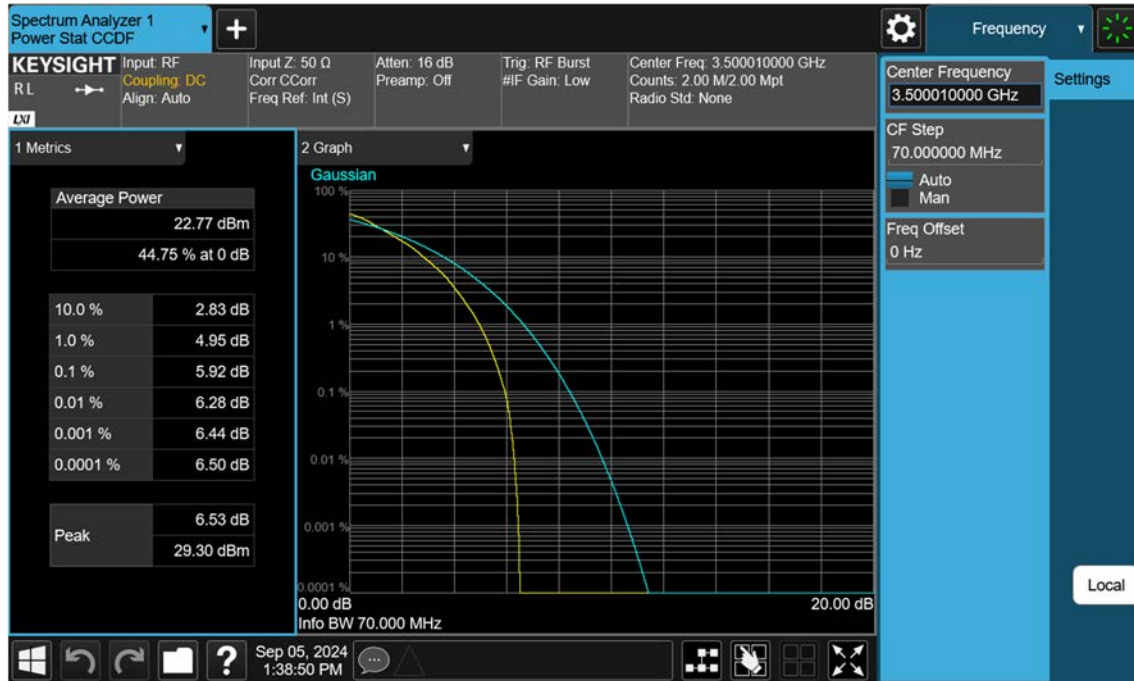
n77(3450~3550 MHz)_70 M_PAR_Mid_QPSK_FullIRB



n77(3450~3550 MHz)_70 M_PAR_Mid_16QAM_FullRB



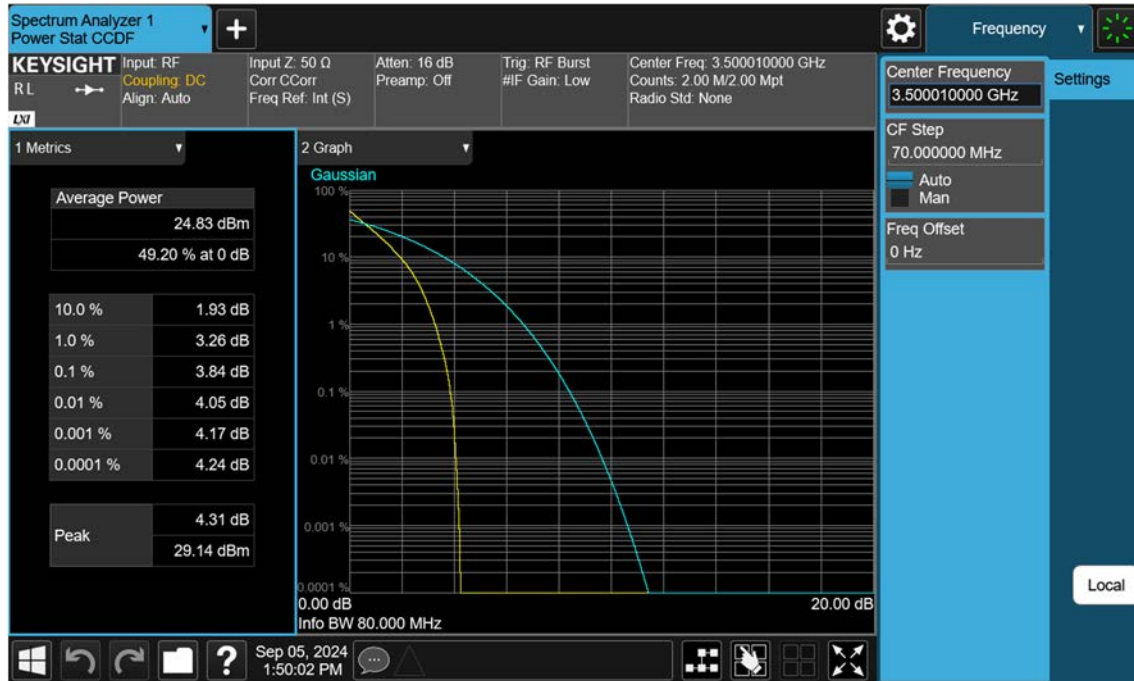
n77(3450~3550 MHz)_70 M_PAR_Mid_64QAM_FullRB



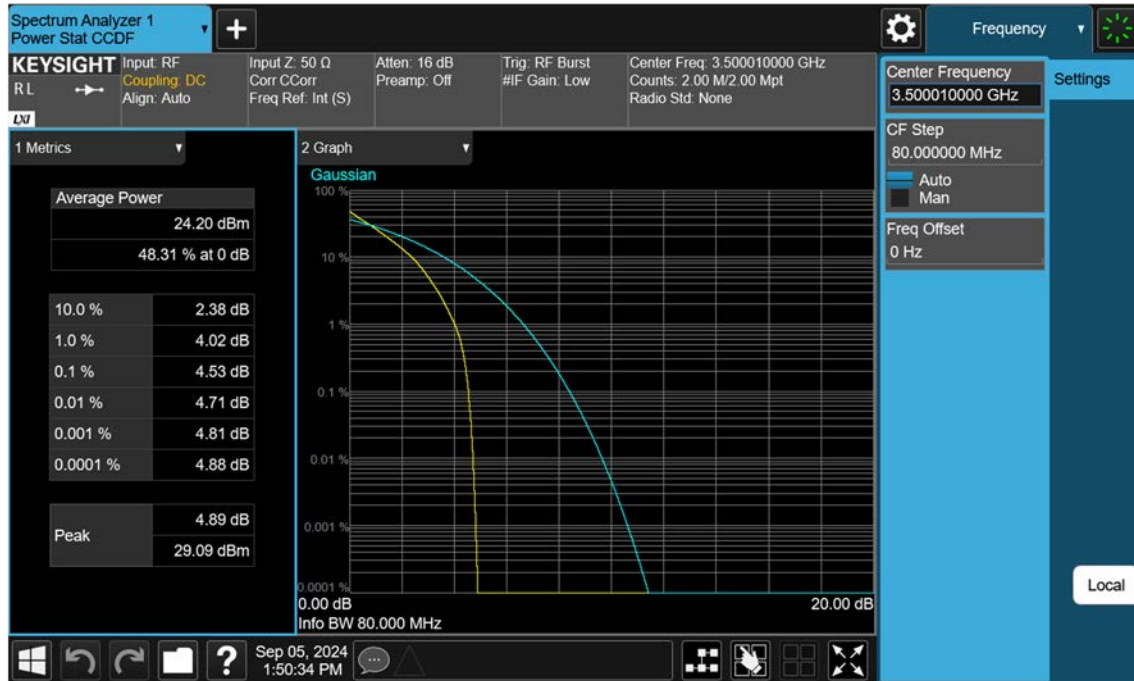
n77(3450~3550 MHz)_70 M_PAR_Mid_256QAM_FullRB



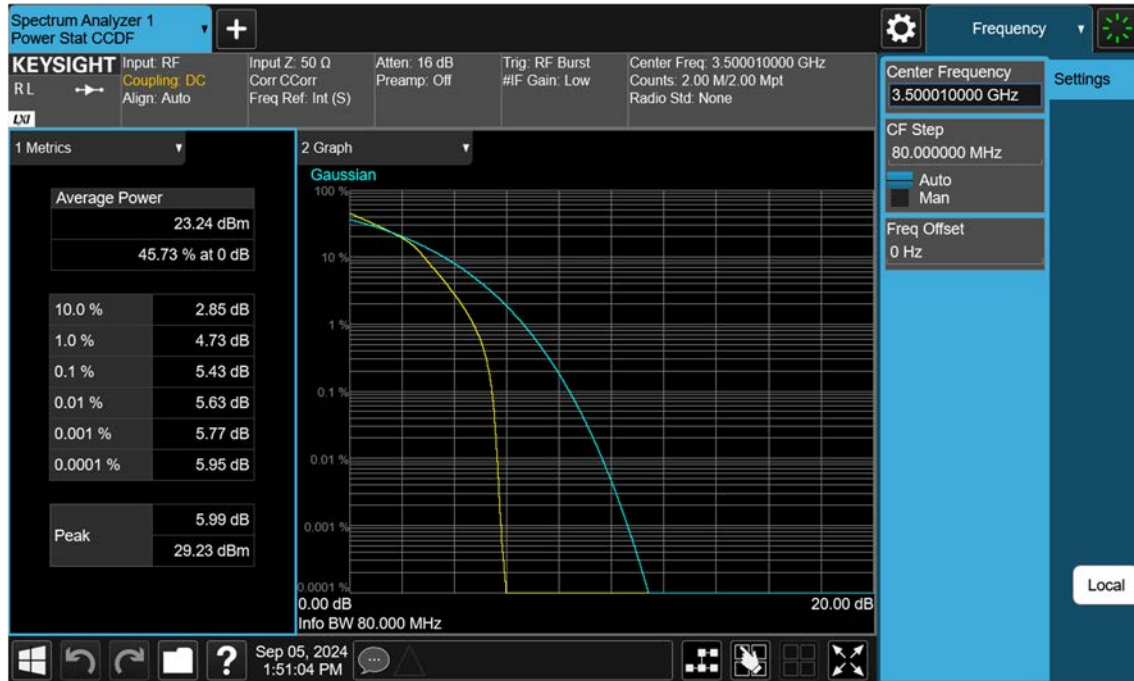
n77(3450~3550 MHz)_80 M_PAR_Mid_BPSK_FullRB



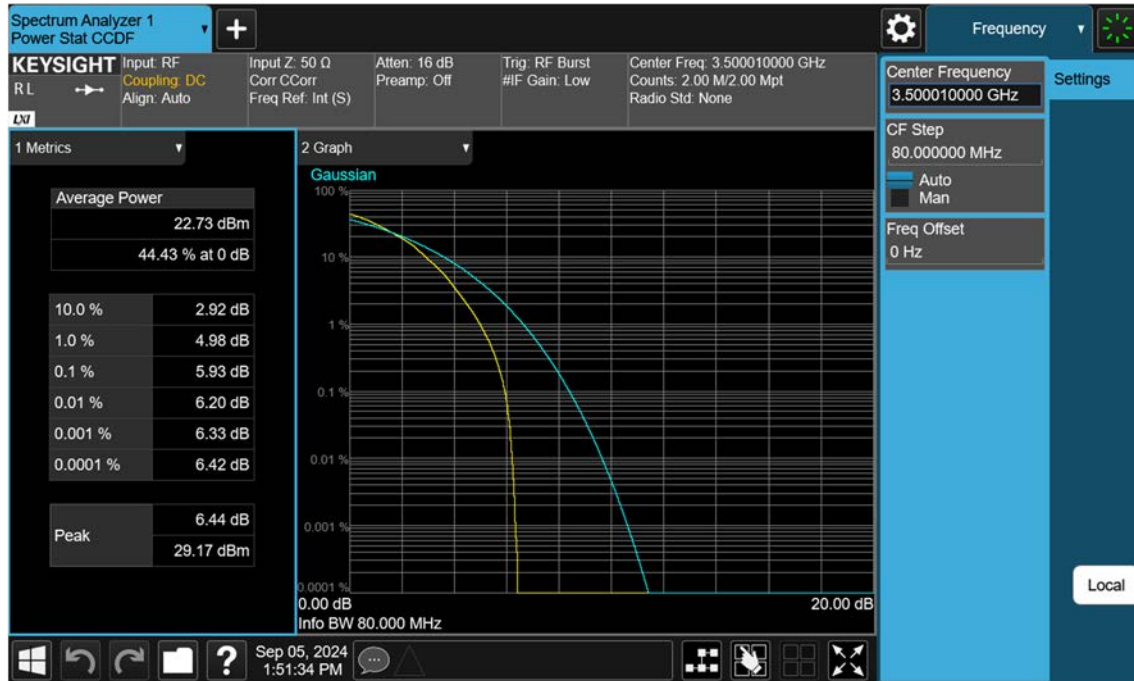
n77(3450~3550 MHz)_80 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_80 M_PAR_Mid_16QAM_FullRB



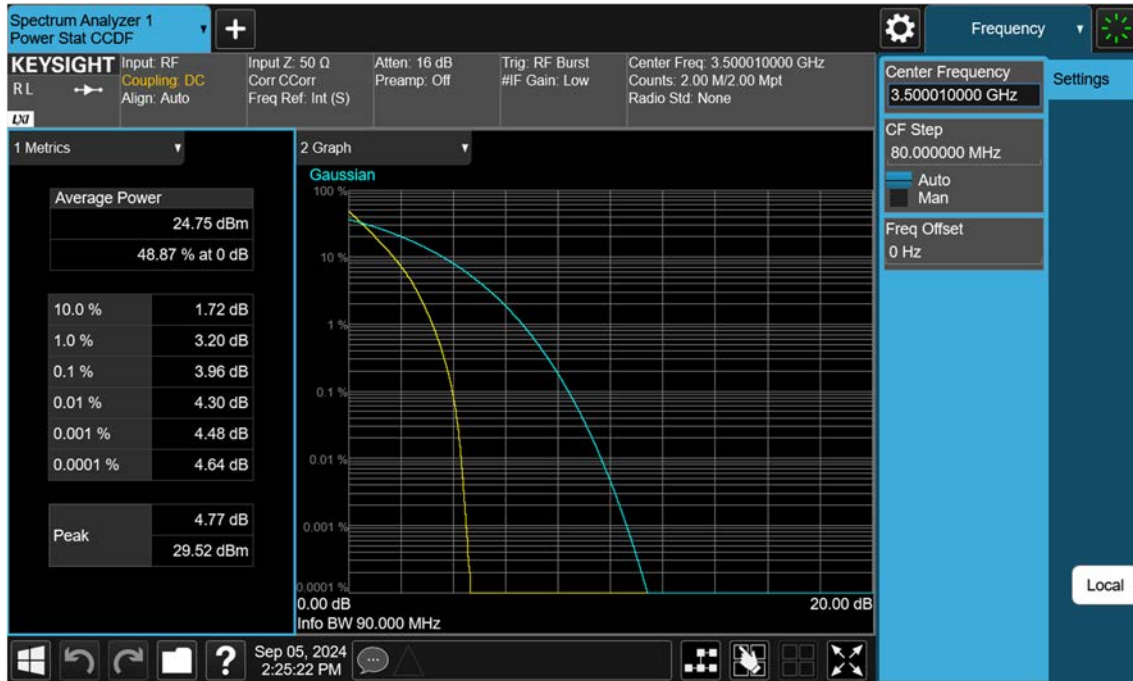
n77(3450~3550 MHz)_80 M_PAR_Mid_64QAM_FullRB



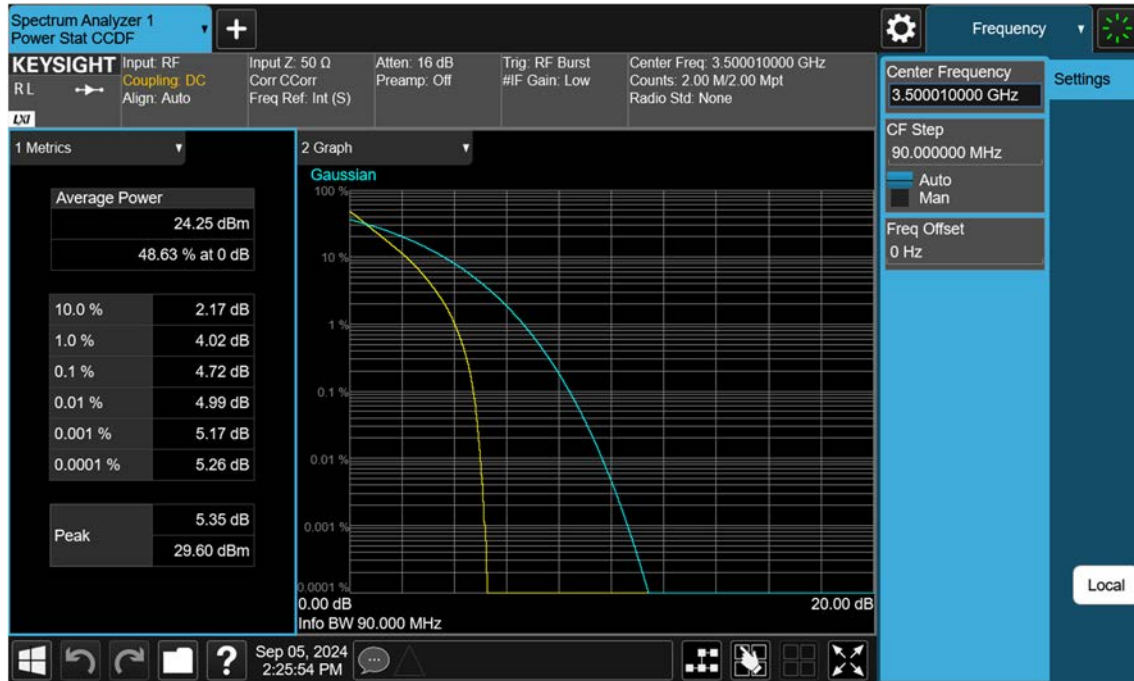
n77(3450~3550 MHz)_80 M_PAR_Mid_256QAM_FullRB



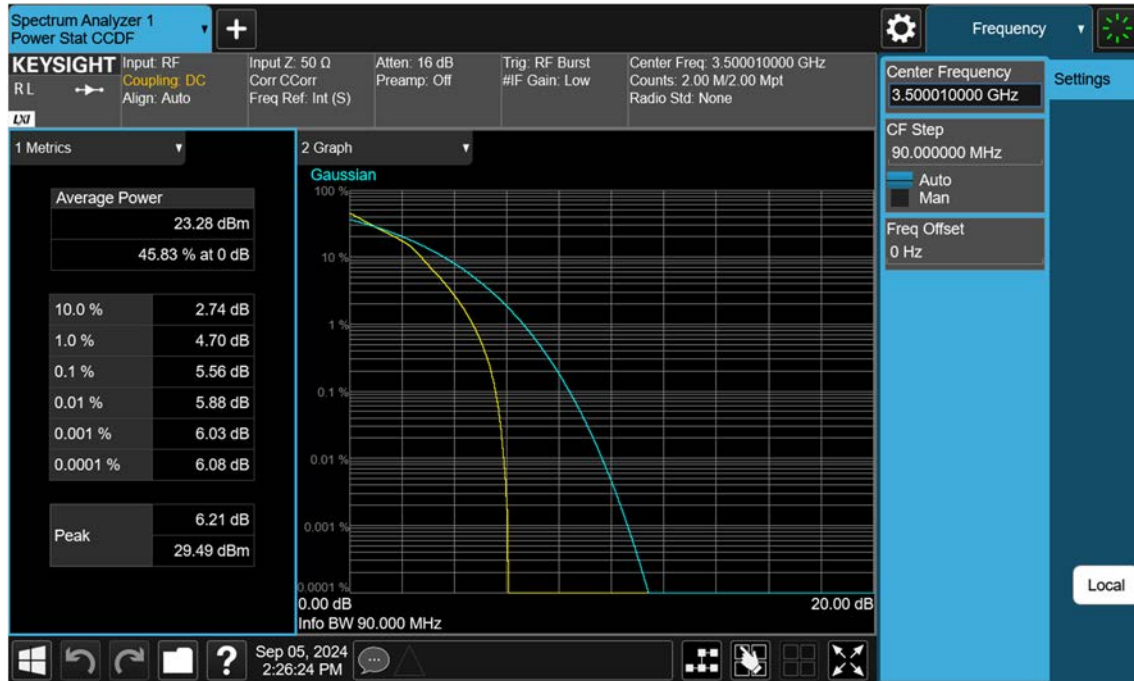
n77(3450~3550 MHz)_90 M_PAR_Mid_BPSK_FullRB



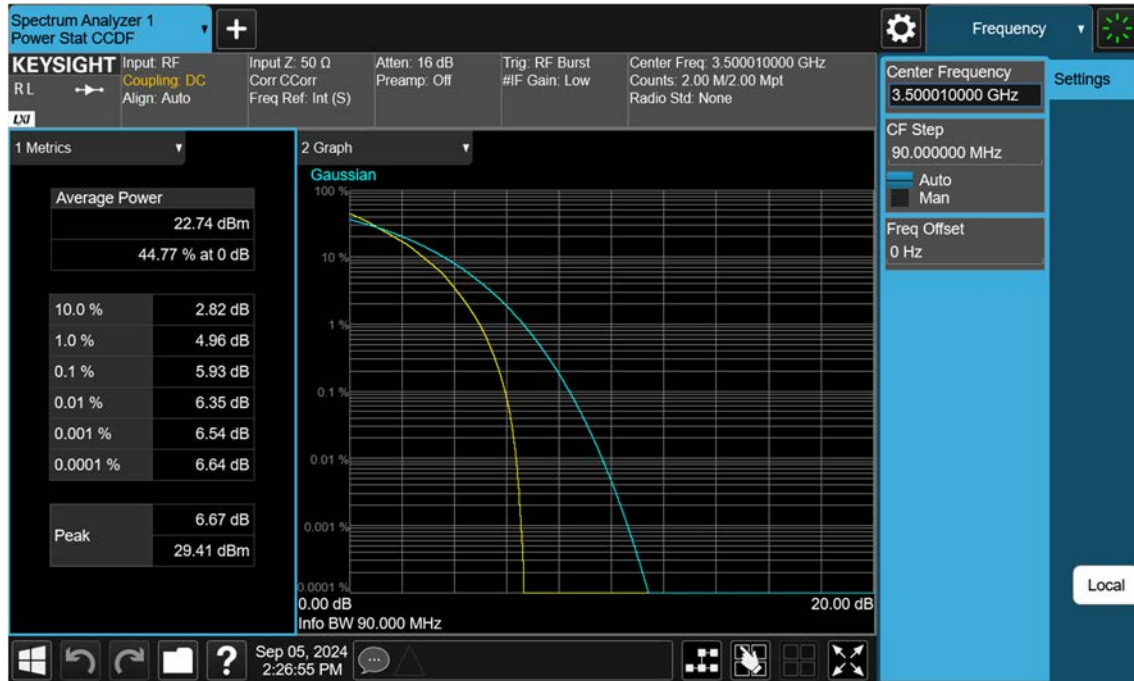
n77(3450~3550 MHz)_90 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_90 M_PAR_Mid_16QAM_FullRB



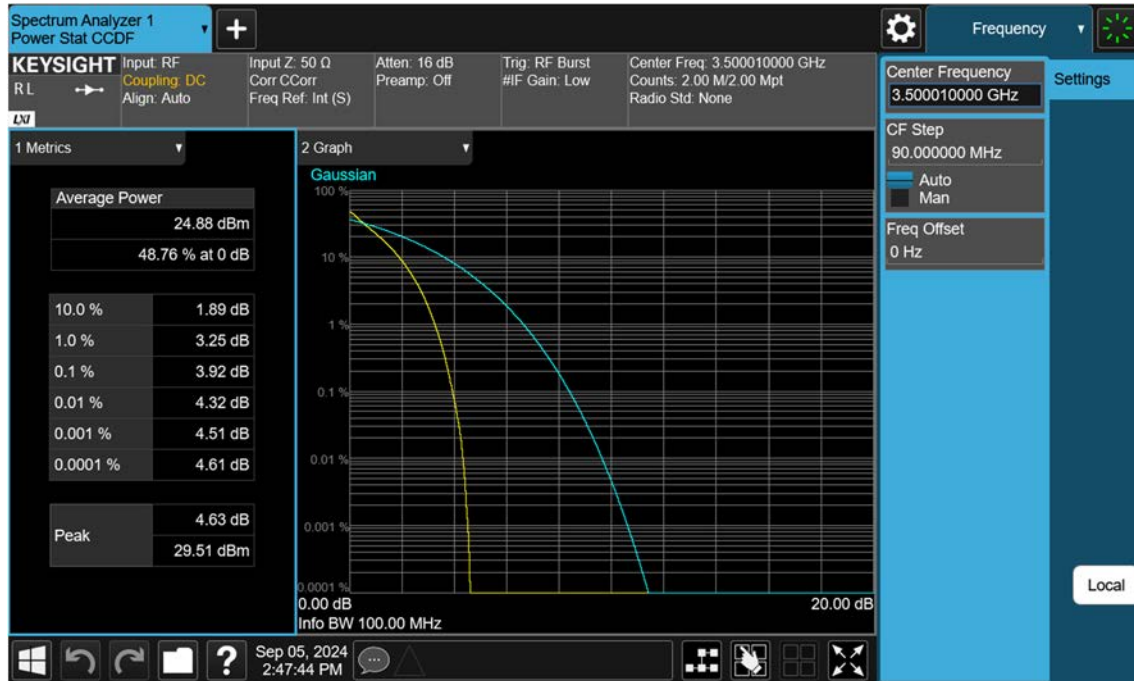
n77(3450~3550 MHz)_90 M_PAR_Mid_64QAM_FullRB



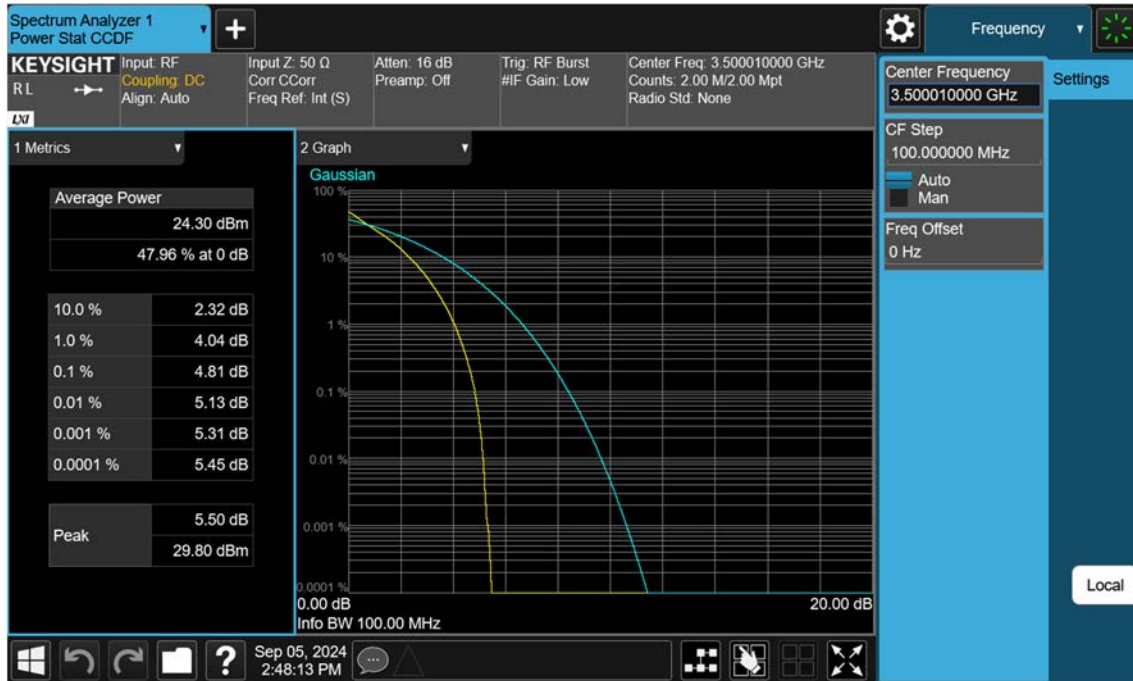
n77(3450~3550 MHz)_90 M_PAR_Mid_256QAM_FullRB



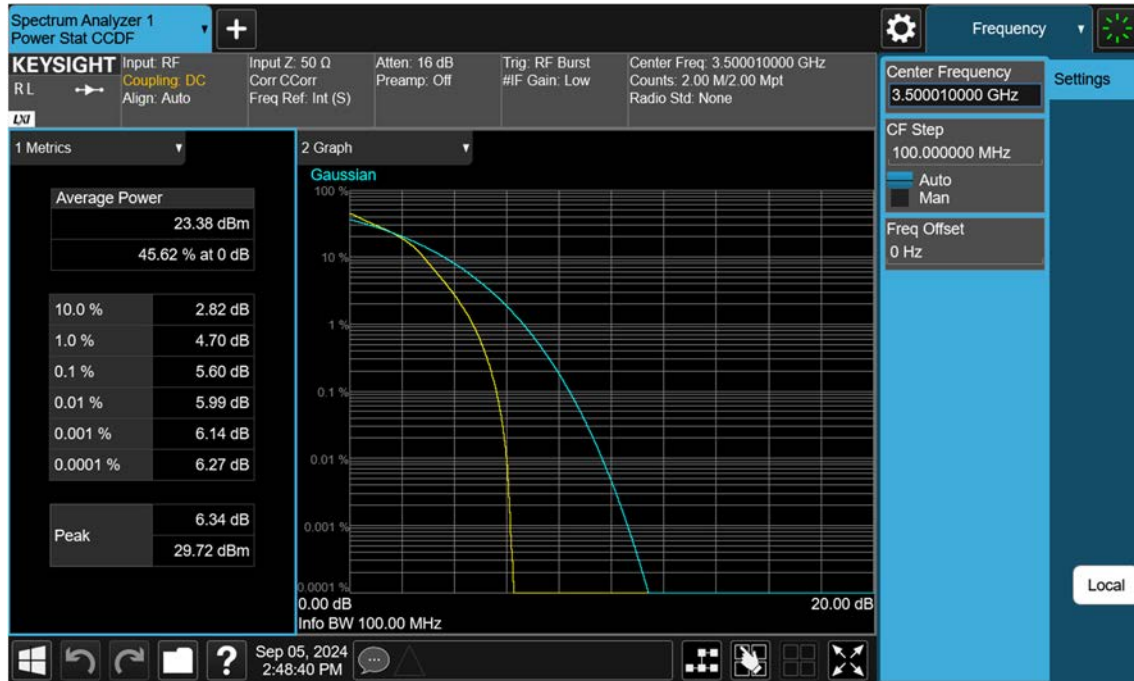
n77(3450~3550 MHz)_100 M_PAR_Mid_BPSK_FullRB



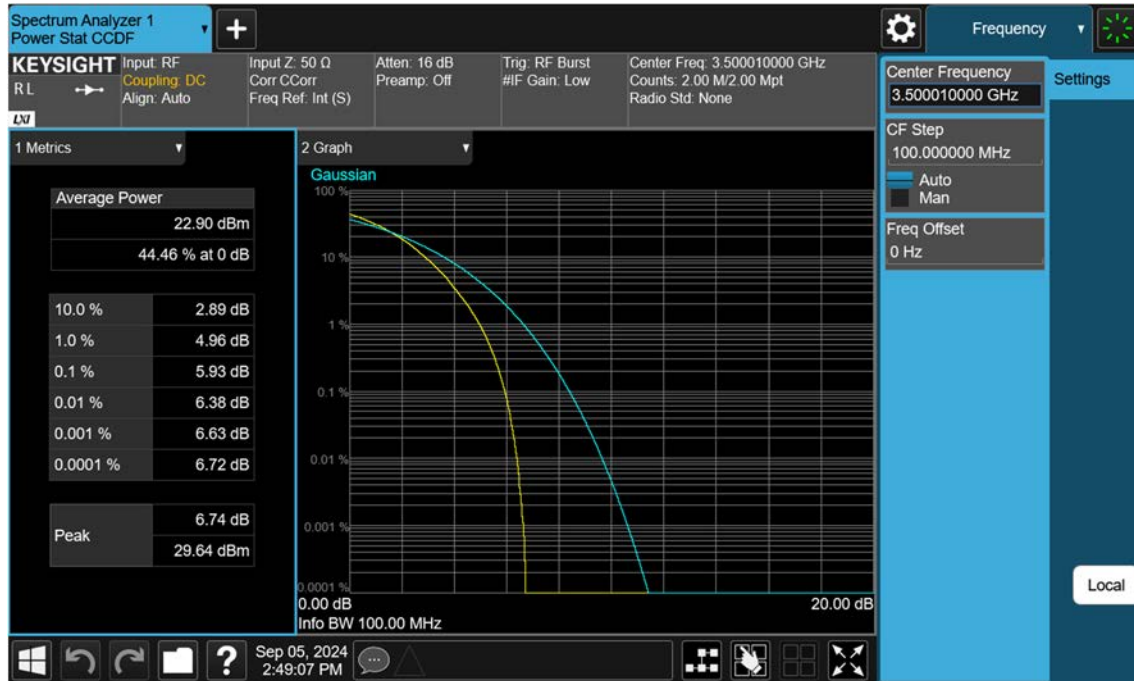
n77(3450~3550 MHz)_100 M_PAR_Mid_QPSK_FullRB



n77(3450~3550 MHz)_100 M_PAR_Mid_16QAM_FullRB



n77(3450~3550 MHz)_100 M_PAR_Mid_64QAM_FullRB



n77(3450~3550 MHz)_100 M_PAR_Mid_256QAM_FullRB

