

TEST REPORT

FCC Sub6 n41 Test for SM-X526B
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2502-FC047

DATE OF ISSUE
February 17, 2025

Tested by
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TEST REPORT

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Applicant

SAMSUNG Electronics Co., Ltd.

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

Product Name

Tablet

Model Name

SM-X526B

Date of Test

December 26, 2024 ~ February 12, 2025

FCC ID

A3LSMX526B

Location of Test

☒ Permanent Testing Lab ☐ On Site Testing

(Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)

FCC Classification:

PCS Licensed Transmitter (PCB)

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	February 17, 2025	Initial Release

Notice

Content

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

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

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

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

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

Information provided by the applicant is marked **.

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

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

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

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MEASUREMENT REPORT

1. GENERAL INFORMATION

Applicant Name:	SAMSUNG Electronics Co., Ltd.
Address:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
FCC ID:	A3LSMX526B
Application Type:	Certification
FCC Classification:	PCS Licensed Transmitter (PCB)
FCC Rule Part(s):	§ 27
EUT Type:	Tablet
Model(s):	SM-X526B
SCS(kHz):	30
Bandwidth(MHz):	Sub6 n41 : 10, 15, 20, 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:	2501.010 – 2685.000 : 10 MHz(Sub6 n41) 2503.500 – 2682.480 : 15 MHz(Sub6 n41) 2506.020 – 2679.990 : 20 MHz(Sub6 n41) 2511.000 – 2674.980 : 30 MHz(Sub6 n41) 2516.010 – 2670.000 : 40 MHz(Sub6 n41) 2521.020 – 2664.990 : 50 MHz(Sub6 n41) 2526.000 – 2659.980 : 60 MHz(Sub6 n41) 2531.010 – 2655.000 : 70 MHz(Sub6 n41) 2536.020 – 2649.990 : 80 MHz(Sub6 n41) 2541.000 – 2644.980 : 90 MHz(Sub6 n41) 2546.010 – 2640.000 : 100 MHz(Sub6 n41)
Date(s) of Tests:	December 26, 2024 ~ February 12, 2025
Serial number:	Radiated : R32XC00BE2B Conducted : R32XC00AZFB

1.1 MAXIMUM OUTPUT POWER

Mode (MHz)	Tx Frequency (MHz)	Emission Designator	Modulation	EIRP	
				Max. Power (W)	Max. Power (dBm)
Sub6 n41 (10)	2501.010 – 2685.000	8M69G7D	PI/2 BPSK	0.220	23.42
		8M70G7D	QPSK	0.213	23.29
		8M67W7D	16QAM	0.172	22.35
		8M72W7D	64QAM	0.127	21.04
		8M67W7D	256QAM	0.074	18.69
Sub6 n41 (15)	2503.500 – 2682.480	13M0G7D	PI/2 BPSK	0.229	23.59
		13M0G7D	QPSK	0.225	23.53
		12M9W7D	16QAM	0.183	22.63
		13M0W7D	64QAM	0.129	21.11
		12M9W7D	256QAM	0.081	19.10
Sub6 n41 (20)	2506.020 – 2679.990	18M1G7D	PI/2 BPSK	0.243	23.85
		18M0G7D	QPSK	0.237	23.75
		18M0W7D	16QAM	0.192	22.84
		18M0W7D	64QAM	0.136	21.35
		17M9W7D	256QAM	0.086	19.32
Sub6 n41 (30)	2511.000 – 2674.980	27M1G7D	PI/2 BPSK	0.238	23.77
		27M0G7D	QPSK	0.231	23.64
		27M0W7D	16QAM	0.192	22.84
		27M0W7D	64QAM	0.129	21.12
		27M0W7D	256QAM	0.081	19.10
Sub6 n41 (40)	2516.010 – 2670.000	36M0G7D	PI/2 BPSK	0.247	23.92
		36M0G7D	QPSK	0.239	23.78
		35M9W7D	16QAM	0.182	22.60
		36M0W7D	64QAM	0.135	21.31
		35M9W7D	256QAM	0.087	19.38
Sub6 n41 (50)	2521.020 – 2664.990	46M0G7D	PI/2 BPSK	0.242	23.83
		46M0G7D	QPSK	0.237	23.74
		46M0W7D	16QAM	0.185	22.68
		46M0W7D	64QAM	0.131	21.16
		45M8W7D	256QAM	0.085	19.27
Sub6 n41 (60)	2526.000 – 2659.980	58M2G7D	PI/2 BPSK	0.222	23.47
		58M3G7D	QPSK	0.216	23.35
		58M3W7D	16QAM	0.171	22.32
		58M4W7D	64QAM	0.121	20.83
		58M3W7D	256QAM	0.078	18.90

Sub6 n41 (70)	2531.010 – 2655.000	65M0G7D	PI/2 BPSK	0.207	23.16
		64M8G7D	QPSK	0.204	23.09
		64M7W7D	16QAM	0.169	22.29
		64M7W7D	64QAM	0.114	20.57
		65M0W7D	256QAM	0.072	18.57
Sub6 n41 (80)	2536.020 – 2649.990	77M7G7D	PI/2 BPSK	0.214	23.31
		77M5G7D	QPSK	0.201	23.04
		77M5W7D	16QAM	0.166	22.21
		77M6W7D	64QAM	0.120	20.80
		77M6W7D	256QAM	0.075	18.74
Sub6 n41 (90)	2541.000 – 2644.980	87M3G7D	PI/2 BPSK	0.223	23.49
		87M2G7D	QPSK	0.222	23.47
		87M6W7D	16QAM	0.177	22.49
		87M5W7D	64QAM	0.122	20.86
		87M3W7D	256QAM	0.079	18.98
Sub6 n41 (100)	2546.010 – 2640.000	96M8G7D	PI/2 BPSK	0.228	23.58
		96M9G7D	QPSK	0.220	23.43
		96M8W7D	16QAM	0.171	22.32
		96M7W7D	64QAM	0.123	20.91
		96M9W7D	256QAM	0.076	18.78

2. INTRODUCTION

2.1. DESCRIPTION OF EUT

Please refer to the [2G3G] Test Report.

2.2. MEASURING INSTRUMENT CALIBRATION

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

2.3. TEST FACILITY

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

3. DESCRIPTION OF TESTS

3.1 TEST PROCEDURE

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

3.2 RADIATED POWER

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

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

Test Settings

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

Test Note

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

The power is calculated by the following formula;

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

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

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

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

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

3.3 RADIATED SPURIOUS EMISSIONS

Test Overview

Radiated tests are performed in the Fully-anechoic chamber.

Radiated Spurious Emission Measurements at 3 meters by Substitution Method.

Test Settings

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

Test Note

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

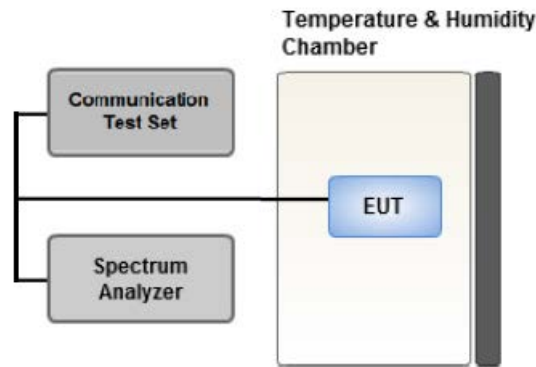
$$\text{Result}_{(\text{dBm})} = P_g_{(\text{dBm})} - \text{cable loss}_{(\text{dB})} + \text{antenna gain}_{(\text{dBi})}$$

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

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

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

3.4 PEAK- TO- AVERAGE RATIO



Test setup

① CCDF Procedure for PAPR

Test Settings

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

② Alternate Procedure for PAPR

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

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

Test Settings(Peak Power)

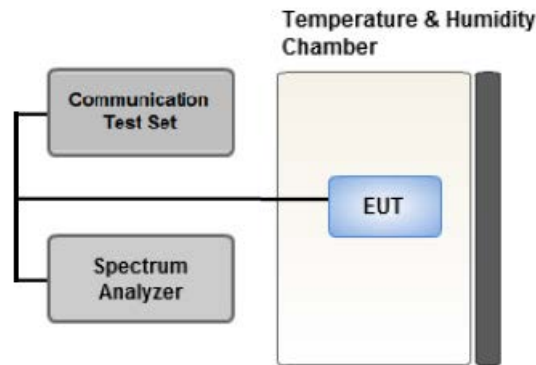
The measurement instrument must have a RBW that is greater than or equal to the OBW of the signal to be measured and a VBW $\geq 3 \times$ RBW.

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

Test Settings(Average Power)

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

3.5 OCCUPIED BANDWIDTH.



Test setup

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

The EUT makes a call to the communication simulator.

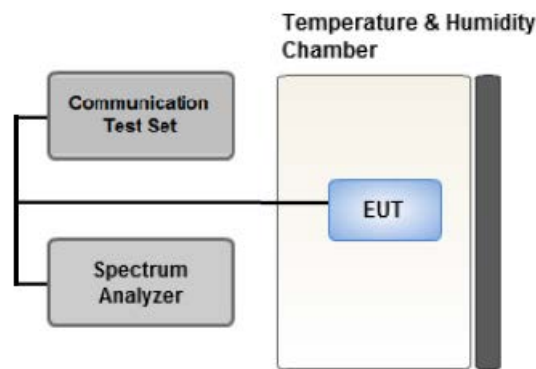
The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

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

Test Settings

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

3.6 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL



Test setup

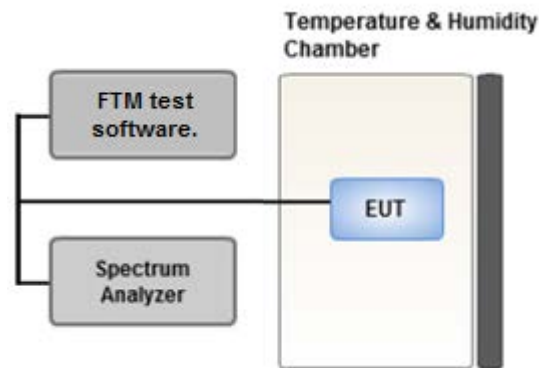
Test Overview

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

Test Settings

1. RBW = 1 MHz
2. VBW $\geq$ 3 MHz
3. Detector = Peak
4. Trace Mode = Max Hold
5. Sweep time = auto
6. Number of points in sweep $\geq$ 2 x Span / RBW

3.7 CHANNEL 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 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

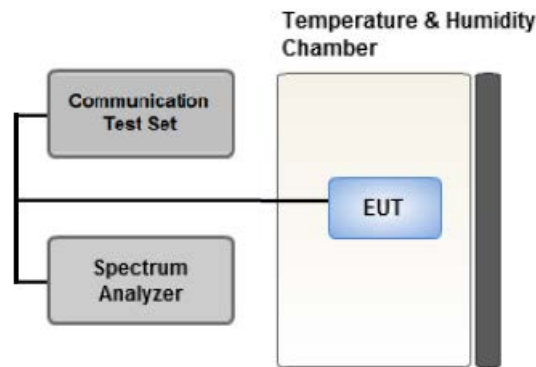
1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. Within 1 MHz of the channel edge the RBW should be 2 % of EBW, then 1 MHz after that.
4. VBW > 3 x RBW
5. 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

1. The attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge,
2. $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge.
3. $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge.
4. The attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz.
5. $55 + 10 \log (P)$ dB at or below 2490.5 MHz.
6. X is the greater of 6MHz or the actual emission bandwidth
7. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer

Where Margin < 1 dB the emission level is either corrected by $10 \log(1 \text{ MHz/ RB})$ 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.
- 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.
- 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.

[Worst case]

Test Description	Modulation	RB size	RB offset	Axis
Equivalent Isotropic Radiated Power	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	See Section 8.1		X
Radiated Spurious and Harmonic Emissions	PI/2 BPSK	See Section 8.2		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)
- All modes of operation were investigated and the worst case configuration results are reported.
Mode: NSA, SA, SRS
Worst case: SA
- All RB sizes, offsets of operation were investigated and the worst case configuration results are reported.
Please refer to the table below.

[Worst case]

Test Description	Modulation	Bandwidth (MHz)	Frequency	RB size	RB offset
Occupied Bandwidth, Peak-To-Average Ratio	PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100	Mid	Full RB	0
Channel 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
		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, 30, 40, 50, 60, 70, 80, 90, 100	Low, Mid, High	Full RB	0
Spurious and Harmonic Emissions at Antenna Terminal	PI/2 BPSK	10, 15, 20, 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	01/06/2027	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	895	08/28/2026	Biennial
Trilog Broadband Antenna	VULB9168	Schwarzbeck	1135	08/19/2026	Biennial
RF Switching System	FBSR-06B (1G HPF + LNA)	T&M SYSTEM	F3L1	05/14/2025	Annual
RF Switching System	FBSR-06B (3G HPF + LNA)	T&M SYSTEM	F3L2	05/14/2025	Annual
RF Switching System	FBSR-06B (6G HPF + LNA)	T&M SYSTEM	F3L3	05/14/2025	Annual
RF Switching System	FBSR-06B (LNA)	T&M SYSTEM	F3L4	05/14/2025	Annual
Power Amplifier	CBL18265035	CERNEX	22966	11/07/2025	Annual
Power Amplifier	CBL26405040	CERNEX	25956	02/26/2025	Annual
DC Power Supply	E3632A	Hewlett Packard	MY40004427	08/22/2025	Annual
Power Splitter(DC~26.5 GHz)	11667B	Hewlett Packard	11275	02/04/2026	Annual
Chamber	SU-642	ESPEC	93022487	06/27/2025	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	02/04/2026	Annual
Signal & Spectrum Analyzer (2 Hz~67 GHz)	FSW67	REOHDE & SCHWARZ	101736	05/23/2025	Annual
Base Station	8960 (E5515C)	Agilent	MY48360800	08/05/2025	Annual
Wideband Radio Communication Tester	MT8821C	Anritsu Corp.	6262287701	05/16/2025	Annual
Wideband Radio Communication Tester	MT8000A	Anritsu Corp.	6262302511	05/14/2025	Annual
Signal Analyzer(5 Hz~40.0 GHz)	N9030B	KEYSIGHT	MY55480167	05/17/2025	Annual
4-Way Divider	ZC4PD-K1844+	Mini-Circuits	942907	09/10/2025	Annual
SIGNAL GENERATOR (100 kHz ~ 40 GHz)	SMB100A	REOHDE & SCHWARZ	177633	07/26/2025	Annual
FCC LTE Mobile Conducted RF Automation Test Software	-	HCT CO., LTD.,	-	-	-

Note:

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

5. MEASUREMENT UNCERTAINTY

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

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

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

Parameter	Expanded Uncertainty ($\pm$ dB)
Block Edge	0.70 (Confidence level about 95 %, $k=2$)
Conducted Spurious Emissions	1.18 (Confidence level about 95 %, $k=2$)
Peak- to- Average Ratio	0.68 (Confidence level about 95 %, $k=2$)
Radiated Power	4.74 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (9 kHz ~ 30 MHz)	4.36 (Confidence level about 95 %, $k=2$)
Radiated Disturbance (30 MHz ~ 1 GHz)	5.70 (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(m)(4)	■ $< 40 + 10\log_{10} (P[\text{Watts}])$ at Channel edges ■ $< 43 + 10\log_{10} (P[\text{Watts}])$ between 5 and X MHz from Channel edges ■ $< 55 + 10\log_{10} (P[\text{Watts}])$ beyond X MHz beyond from Channel edges ■ $< 43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz	PASS
Conducted Output Power	§ 2.1046	N/A	<u>See Note1</u>
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(h)(2)	< 2 Watts max. EIRP	PASS
Radiated Spurious and Harmonic Emissions	§ 2.1053, § 27.53(m)(4)	$< 55 + 10\log_{10} (P[\text{Watts}])$	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

8.1 EQUIVALENT ISOTROPIC RADIATED POWER

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2501.010	Sub6 n41 / 10 MHz [30 kHz]	PI/2 BPSK	-21.49	15.31	10.61	2.50	H	< 2.00	0.220	23.42	1	12
		QPSK	-21.62	15.18	10.61	2.50	H		0.213	23.29		
		16-QAM	-22.56	14.24	10.61	2.50	H		0.172	22.35		
		64-QAM	-23.87	12.93	10.61	2.50	H		0.127	21.04		
		256-QAM	-26.22	10.58	10.61	2.50	H		0.074	18.69		
2592.990		PI/2 BPSK	-22.23	14.48	11.00	2.55	H		0.196	22.93	1	1
		QPSK	-22.37	14.34	11.00	2.55	H		0.190	22.79		
		16-QAM	-23.35	13.36	11.00	2.55	H		0.152	21.81		
		64-QAM	-25.03	11.68	11.00	2.55	H		0.103	20.13		
		256-QAM	-26.97	9.74	11.00	2.55	H		0.066	18.19		
2685.000		PI/2 BPSK	-23.41	14.15	10.82	2.61	H	0.172	22.36	1	12	
		QPSK	-23.51	14.05	10.82	2.61	H	0.168	22.26			
		16-QAM	-24.29	13.27	10.82	2.61	H	0.141	21.48			
		64-QAM	-26.03	11.53	10.82	2.61	H	0.094	19.74			
		256-QAM	-28.00	9.56	10.82	2.61	H	0.060	17.77			

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2503.500	Sub6 n41 / 15 MHz [30 kHz]	PI/2 BPSK	-21.34	15.52	10.58	2.51	H		0.229	23.59	1	36
		QPSK	-21.40	15.46	10.58	2.51	H		0.225	23.53		
		16-QAM	-22.30	14.56	10.58	2.51	H		0.183	22.63		
		64-QAM	-23.82	13.04	10.58	2.51	H		0.129	21.11		
		256-QAM	-25.83	11.03	10.58	2.51	H		0.081	19.10		
2592.990		PI/2 BPSK	-22.30	14.41	11.00	2.55	H	< 2.00	0.193	22.86	1	1
		QPSK	-22.31	14.40	11.00	2.55	H		0.193	22.85		
		16-QAM	-23.28	13.43	11.00	2.55	H		0.154	21.88		
		64-QAM	-24.75	11.96	11.00	2.55	H		0.110	20.41		
		256-QAM	-26.82	9.89	11.00	2.55	H		0.068	18.34		
2682.480		PI/2 BPSK	-23.51	14.16	10.84	2.61	H		0.173	22.39	1	1
		QPSK	-23.52	14.15	10.84	2.61	H		0.173	22.38		
		16-QAM	-24.47	13.20	10.84	2.61	H		0.139	21.43		
		64-QAM	-26.04	11.63	10.84	2.61	H		0.097	19.86		
		256-QAM	-27.90	9.77	10.84	2.61	H		0.063	18.00		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2506.020	Sub6 n41 / 20 MHz [30 kHz]	PI/2 BPSK	-21.08	15.78	10.58	2.51	H		0.243	23.85	1	49
		QPSK	-21.18	15.68	10.58	2.51	H		0.237	23.75		
		16-QAM	-22.09	14.77	10.58	2.51	H		0.192	22.84		
		64-QAM	-23.58	13.28	10.58	2.51	H		0.137	21.35		
		256-QAM	-25.61	11.25	10.58	2.51	H		0.086	19.32		
2592.990		PI/2 BPSK	-22.28	14.43	11.00	2.55	H	< 2.00	0.194	22.88	1	25
		QPSK	-22.56	14.15	11.00	2.55	H		0.182	22.60		
		16-QAM	-23.41	13.30	11.00	2.55	H		0.150	21.75		
		64-QAM	-25.04	11.67	11.00	2.55	H		0.103	20.12		
		256-QAM	-26.96	9.75	11.00	2.55	H		0.066	18.20		
2679.990		PI/2 BPSK	-23.40	14.27	10.84	2.61	H		0.178	22.50	1	1
		QPSK	-23.42	14.25	10.84	2.61	H		0.177	22.48		
		16-QAM	-24.47	13.20	10.84	2.61	H		0.139	21.43		
		64-QAM	-25.99	11.68	10.84	2.61	H		0.098	19.91		
		256-QAM	-28.12	9.55	10.84	2.61	H		0.060	17.78		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2511.000	Sub6 n41 / 30 MHz [30 kHz]	PI/2 BPSK	-21.19	15.73	10.55	2.51	H		0.238	23.77	1	76
		QPSK	-21.32	15.60	10.55	2.51	H		0.231	23.64		
		16-QAM	-22.12	14.80	10.55	2.51	H		0.192	22.84		
		64-QAM	-23.84	13.08	10.55	2.51	H		0.129	21.12		
		256-QAM	-25.86	11.06	10.55	2.51	H		0.081	19.10		
2592.990		PI/2 BPSK	-22.06	14.65	11.00	2.55	H	< 2.00	0.204	23.10	1	1
		QPSK	-22.09	14.62	11.00	2.55	H		0.203	23.07		
		16-QAM	-23.08	13.63	11.00	2.55	H		0.161	22.08		
		64-QAM	-24.77	11.94	11.00	2.55	H		0.109	20.39		
		256-QAM	-26.69	10.02	11.00	2.55	H		0.070	18.47		
2674.980		PI/2 BPSK	-23.37	13.92	10.85	2.62	H		0.164	22.15	1	1
		QPSK	-23.42	13.87	10.85	2.62	H		0.162	22.10		
		16-QAM	-24.40	12.89	10.85	2.62	H		0.129	21.12		
		64-QAM	-25.80	11.49	10.85	2.62	H		0.094	19.72		
		256-QAM	-27.68	9.61	10.85	2.62	H		0.061	17.84		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2516.010	Sub6 n41 / 40 MHz [30 kHz]	PI/2 BPSK	-21.00	15.93	10.52	2.53	H	< 2.00	0.247	23.92	1	53
		QPSK	-21.14	15.79	10.52	2.53	H		0.239	23.78		
		16-QAM	-22.32	14.61	10.52	2.53	H		0.182	22.60		
		64-QAM	-23.61	13.32	10.52	2.53	H		0.135	21.31		
		256-QAM	-25.54	11.39	10.52	2.53	H		0.087	19.38		
2592.990		PI/2 BPSK	-22.31	14.40	11.00	2.55	H		0.193	22.85	1	53
		QPSK	-22.36	14.35	11.00	2.55	H		0.191	22.80		
		16-QAM	-23.39	13.32	11.00	2.55	H		0.150	21.77		
		64-QAM	-24.78	11.93	11.00	2.55	H		0.109	20.38		
		256-QAM	-26.93	9.78	11.00	2.55	H		0.067	18.23		
2670.000		PI/2 BPSK	-23.32	13.58	10.87	2.62	H	0.152	21.83	1	53	
		QPSK	-23.39	13.51	10.87	2.62	H	0.150	21.76			
		16-QAM	-24.27	12.63	10.87	2.62	H	0.123	20.88			
		64-QAM	-25.77	11.13	10.87	2.62	H	0.087	19.38			
		256-QAM	-27.90	9.00	10.87	2.62	H	0.053	17.25			

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2521.020	Sub6 n41 / 50 MHz [30 kHz]	PI/2 BPSK	-21.05	15.88	10.49	2.54	H		0.242	23.83	1	66
		QPSK	-21.14	15.79	10.49	2.54	H		0.237	23.74		
		16-QAM	-22.20	14.73	10.49	2.54	H		0.185	22.68		
		64-QAM	-23.72	13.21	10.49	2.54	H		0.131	21.16		
		256-QAM	-25.61	11.32	10.49	2.54	H		0.085	19.27		
2592.990		PI/2 BPSK	-22.29	14.42	11.00	2.55	H	< 2.00	0.194	22.87	1	1
		QPSK	-22.47	14.24	11.00	2.55	H		0.186	22.69		
		16-QAM	-23.35	13.36	11.00	2.55	H		0.152	21.81		
		64-QAM	-24.86	11.85	11.00	2.55	H		0.107	20.30		
		256-QAM	-26.84	9.87	11.00	2.55	H		0.068	18.32		
2664.990		PI/2 BPSK	-23.41	13.54	10.88	2.64	H		0.151	21.78	1	66
		QPSK	-23.42	13.53	10.88	2.64	H		0.150	21.77		
		16-QAM	-24.15	12.80	10.88	2.64	H		0.127	21.04		
		64-QAM	-26.03	10.92	10.88	2.64	H		0.082	19.16		
		256-QAM	-28.03	8.92	10.88	2.64	H		0.052	17.16		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2526.000	Sub6 41/ 60 MHz [30 kHz]	PI/2 BPSK	-21.14	15.49	10.52	2.54	H		0.222	23.47	1	82
		QPSK	-21.26	15.37	10.52	2.54	H		0.216	23.35		
		16-QAM	-22.42	14.21	10.52	2.54	H		0.166	22.19		
		64-QAM	-23.78	12.85	10.52	2.54	H		0.121	20.83		
		256-QAM	-25.71	10.92	10.52	2.54	H		0.078	18.90		
2592.990		PI/2 BPSK	-21.84	14.87	11.00	2.55	H	< 2.00	0.215	23.32	1	1
		QPSK	-21.86	14.85	11.00	2.55	H		0.214	23.30		
		16-QAM	-22.84	13.87	11.00	2.55	H		0.171	22.32		
		64-QAM	-24.44	12.27	11.00	2.55	H		0.118	20.72		
		256-QAM	-26.40	10.31	11.00	2.55	H		0.075	18.76		
2659.980		PI/2 BPSK	-23.24	13.77	10.90	2.67	H		0.159	22.00	1	82
		QPSK	-23.25	13.76	10.90	2.67	H		0.158	21.99		
		16-QAM	-24.35	12.66	10.90	2.67	H		0.123	20.89		
		64-QAM	-25.73	11.28	10.90	2.67	H		0.089	19.51		
		256-QAM	-27.80	9.21	10.90	2.67	H		0.056	17.44		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2531.010	Sub6 41/ 70 MHz [30 kHz]	PI/2 BPSK	-21.39	14.94	10.56	2.54	H		0.198	22.96	1	94
		QPSK	-21.47	14.86	10.56	2.54	H		0.194	22.88		
		16-QAM	-22.41	13.92	10.56	2.54	H		0.156	21.94		
		64-QAM	-23.98	12.35	10.56	2.54	H		0.109	20.37		
		256-QAM	-25.82	10.51	10.56	2.54	H		0.071	18.53		
2592.990		PI/2 BPSK	-22.00	14.71	11.00	2.55	H	< 2.00	0.207	23.16	1	1
		QPSK	-22.07	14.64	11.00	2.55	H		0.204	23.09		
		16-QAM	-22.87	13.84	11.00	2.55	H		0.169	22.29		
		64-QAM	-24.59	12.12	11.00	2.55	H		0.114	20.57		
		256-QAM	-26.59	10.12	11.00	2.55	H		0.072	18.57		
2655.000		PI/2 BPSK	-22.92	13.99	10.91	2.68	H		0.167	22.22	1	1
		QPSK	-23.04	13.87	10.91	2.68	H		0.162	22.10		
		16-QAM	-23.70	13.21	10.91	2.68	H		0.139	21.44		
		64-QAM	-25.43	11.48	10.91	2.68	H		0.094	19.71		
		256-QAM	-27.35	9.56	10.91	2.68	H		0.060	17.79		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2536.020	Sub6 41/ 80 MHz [30 kHz]	PI/2 BPSK	-21.20	15.26	10.59	2.54	H		0.214	23.31	1	108
		QPSK	-21.47	14.99	10.59	2.54	H		0.201	23.04		
		16-QAM	-22.30	14.16	10.59	2.54	H		0.166	22.21		
		64-QAM	-23.71	12.75	10.59	2.54	H		0.120	20.80		
		256-QAM	-25.77	10.69	10.59	2.54	H		0.075	18.74		
2592.990		PI/2 BPSK	-22.17	14.54	11.00	2.55	H	< 2.00	0.199	22.99	1	1
		QPSK	-22.19	14.52	11.00	2.55	H		0.198	22.97		
		16-QAM	-23.21	13.50	11.00	2.55	H		0.157	21.95		
		64-QAM	-24.63	12.08	11.00	2.55	H		0.113	20.53		
		256-QAM	-26.64	10.07	11.00	2.55	H		0.071	18.52		
2649.990		PI/2 BPSK	-22.66	14.13	10.93	2.69	H		0.173	22.37	1	1
		QPSK	-22.68	14.11	10.93	2.69	H		0.172	22.35		
		16-QAM	-23.56	13.23	10.93	2.69	H		0.140	21.47		
		64-QAM	-24.92	11.87	10.93	2.69	H		0.103	20.11		
		256-QAM	-27.09	9.70	10.93	2.69	H		0.062	17.94		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2541.000	Sub6 41/ 90 MHz [30 kHz]	PI/2 BPSK	-21.34	15.24	10.62	2.53	H		0.215	23.33	1	122
		QPSK	-21.46	15.12	10.62	2.53	H		0.209	23.21		
		16-QAM	-22.41	14.17	10.62	2.53	H		0.168	22.26		
		64-QAM	-24.04	12.54	10.62	2.53	H		0.116	20.63		
		256-QAM	-25.91	10.67	10.62	2.53	H		0.075	18.76		
2592.990		PI/2 BPSK	-21.67	15.04	11.00	2.55	H	< 2.00	0.223	23.49	1	1
		QPSK	-21.69	15.02	11.00	2.55	H		0.222	23.47		
		16-QAM	-22.67	14.04	11.00	2.55	H		0.177	22.49		
		64-QAM	-24.30	12.41	11.00	2.55	H		0.122	20.86		
		256-QAM	-26.18	10.53	11.00	2.55	H		0.079	18.98		
2644.980		PI/2 BPSK	-22.49	14.62	10.95	2.68	H		0.195	22.89	1	1
		QPSK	-22.51	14.60	10.95	2.68	H		0.194	22.87		
		16-QAM	-23.35	13.76	10.95	2.68	H		0.160	22.03		
		64-QAM	-25.02	12.09	10.95	2.68	H		0.109	20.36		
		256-QAM	-27.15	9.96	10.95	2.68	H		0.067	18.23		

Freq (MHz)	Mod/ Bandwidth [SCS (kHz)]	Modulation	Measured	Substitute	Ant.	C.L	Pol	Limit	EIRP		RB	
			Level (dBm)	Level (dBm)	Gain (dBi)				W	W	dBm	Size
2546.010	Sub6 41/ 100 MHz [30 kHz]	PI/2 BPSK	-21.89	14.66	10.66	2.53	H		0.190	22.79	1	136
		QPSK	-21.94	14.61	10.66	2.53	H		0.188	22.74		
		16-QAM	-22.69	13.86	10.66	2.53	H		0.158	21.99		
		64-QAM	-24.41	12.14	10.66	2.53	H		0.106	20.27		
		256-QAM	-26.52	10.03	10.66	2.53	H		0.066	18.16		
2592.990		PI/2 BPSK	-21.72	14.99	11.00	2.55	H	< 2.00	0.221	23.44	1	1
		QPSK	-21.78	14.93	11.00	2.55	H		0.218	23.38		
		16-QAM	-22.89	13.82	11.00	2.55	H		0.169	22.27		
		64-QAM	-24.29	12.42	11.00	2.55	H		0.122	20.87		
		256-QAM	-26.38	10.33	11.00	2.55	H		0.076	18.78		
2640.000		PI/2 BPSK	-22.14	15.30	10.96	2.68	H		0.228	23.58	1	1
		QPSK	-22.29	15.15	10.96	2.68	H		0.220	23.43		
		16-QAM	-23.40	14.04	10.96	2.68	H		0.171	22.32		
		64-QAM	-24.81	12.63	10.96	2.68	H		0.123	20.91		
		256-QAM	-26.96	10.48	10.96	2.68	H		0.075	18.76		

8.2 RADIATED SPURIOUS EMISSIONS

- ▣ NR Band: n41
- ▣ Bandwidth: 10 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
500202 (2501.010)	5 002.02	-61.17	11.22	-62.88	3.71	V	-55.37	-25.00	1	12
	7 503.03	-51.42	11.54	-43.99	4.60	V	-37.05	-25.00		
	10 004.04	-61.47	11.47	-52.07	5.47	V	-46.07	-25.00		
518598 (2592.990)	5 185.98	-58.11	11.61	-59.28	3.80	V	-51.47	-25.00	1	1
	7 778.97	-58.99	11.26	-51.92	4.70	V	-45.36	-25.00		
	10 371.96	-63.11	11.68	-52.02	5.55	V	-45.89	-25.00		
537000 (2685.000)	5 370.00	-57.94	11.96	-59.57	3.92	H	-51.53	-25.00	1	12
	8 055.00	-56.13	11.24	-48.85	4.81	V	-42.42	-25.00		
	10 740.00	-62.77	11.55	-50.75	5.64	V	-44.84	-25.00		

- NR Band: n41
- Bandwidth: 15 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meter
- SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
500700 (2503.500)	5 007.00	-60.18	11.20	-61.61	3.71	V	-54.12	-25.00	1	36
	7 510.50	-52.29	11.55	-44.75	4.60	V	-37.80	-25.00		
	10 014.00	-61.34	11.46	-51.95	5.47	V	-45.96	-25.00		
518598 (2592.990)	5 185.98	-61.14	11.61	-62.31	3.80	V	-54.50	-25.00	1	1
	7 778.97	-55.77	11.26	-48.70	4.70	V	-42.14	-25.00		
	10 371.96	-62.21	11.68	-51.12	5.55	V	-44.99	-25.00		
536496 (2682.480)	5 364.96	-60.39	11.95	-61.91	3.91	V	-53.87	-25.00	1	1
	8 047.44	-54.50	11.23	-47.28	4.81	V	-40.86	-25.00		
	10 729.92	-61.88	11.56	-49.81	5.65	V	-43.90	-25.00		

- ▣ NR Band: n41
- ▣ Bandwidth: 20 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
501204 (2506.020)	5 012.04	-60.32	11.18	-61.46	3.72	V	-54.00	-25.00	1	49
	7 518.06	-53.48	11.56	-45.84	4.61	V	-38.89	-25.00		
	10 024.08	-60.85	11.46	-51.50	5.47	V	-45.51	-25.00		
518598 (2592.990)	5 185.98	-60.44	11.61	-61.61	3.80	V	-53.80	-25.00	1	25
	7 778.97	-58.75	11.26	-51.68	4.70	V	-45.12	-25.00		
	10 371.96	-61.74	11.68	-50.65	5.55	V	-44.52	-25.00		
535998 (2679.990)	5 359.98	-57.95	11.95	-59.38	3.90	V	-51.33	-25.00	1	1
	8 039.97	-55.60	11.22	-48.29	4.80	V	-41.87	-25.00		
	10 719.96	-60.54	11.56	-48.89	5.64	V	-42.97	-25.00		

- ▣ NR Band: n41
- ▣ Bandwidth: 30 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
502200 (2511.000)	5 022.00	-59.57	11.17	-60.27	3.69	V	-52.79	-25.00	1	76
	7 533.00	-52.96	11.57	-45.36	4.61	V	-38.40	-25.00		
	10 044.00	-60.30	11.44	-50.98	5.48	V	-45.02	-25.00		
518598 (2592.990)	5 185.98	-60.34	11.61	-61.51	3.80	V	-53.70	-25.00	1	1
	7 778.97	-57.37	11.26	-50.30	4.70	V	-43.74	-25.00		
	10 371.96	-60.85	11.68	-49.76	5.55	V	-43.63	-25.00		
534996 (2674.980)	5 349.96	-58.04	11.94	-59.73	3.85	V	-51.64	-25.00	1	1
	8 024.94	-58.18	11.20	-50.93	4.79	V	-44.52	-25.00		
	10 699.92	-62.50	11.57	-50.50	5.67	V	-44.60	-25.00		

- ▣ NR Band: n41
- ▣ Bandwidth: 40 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
503202 (2516.010)	5 032.02	-61.66	11.19	-62.50	3.67	V	-54.98	-25.00	1	53
	7 548.03	-53.32	11.59	-45.95	4.63	V	-38.99	-25.00		
	10 064.04	-62.03	11.42	-52.81	5.47	V	-46.86	-25.00		
518598 (2592.990)	5 185.98	-59.34	11.61	-60.51	3.80	V	-52.70	-25.00	1	53
	7 778.97	-58.94	11.26	-51.87	4.70	V	-45.31	-25.00		
	10 371.96	-62.50	11.68	-51.41	5.55	V	-45.28	-25.00		
534000 (2670.000)	5 340.00	-61.11	11.93	-63.09	3.80	V	-54.96	-25.00	1	53
	8 010.00	-58.21	11.17	-50.89	4.77	V	-44.49	-25.00		
	10 680.00	-63.35	11.57	-50.77	5.71	V	-44.91	-25.00		

- NR Band: n41
- Bandwidth: 50 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meter
- SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
504204 (2521.020)	5 042.04	-60.49	11.20	-61.53	3.68	V	-54.01	-25.00	1	66
	7 563.06	-54.22	11.60	-46.69	4.64	V	-39.73	-25.00		
	10 084.08	-60.32	11.40	-51.09	5.46	V	-45.15	-25.00		
518598 (2592.990)	5 185.98	-60.66	11.61	-61.83	3.80	V	-54.02	-25.00	1	1
	7 778.97	-56.99	11.26	-49.92	4.70	V	-43.36	-25.00		
	10 371.96	-63.32	11.68	-52.23	5.55	V	-46.10	-25.00		
532998 (2664.990)	5 329.98	-59.28	11.92	-61.01	3.77	V	-52.86	-25.00	1	66
	7 994.97	-58.39	11.13	-50.84	4.77	V	-44.48	-25.00		
	10 659.96	-63.33	11.58	-50.93	5.67	V	-45.02	-25.00		

- ▣ NR Band: n41
- ▣ Bandwidth: 60 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
505200 (2526.000)	5 052.00	-61.25	11.22	-62.72	3.73	V	-55.23	-25.00	1	82
	7 578.00	-52.81	11.61	-45.15	4.65	V	-38.19	-25.00		
	10 104.00	-61.75	11.39	-52.19	5.46	V	-46.26	-25.00		
518598 (2592.990)	5 185.98	-60.44	11.61	-61.61	3.80	V	-53.80	-25.00	1	1
	7 778.97	-56.95	11.26	-49.88	4.70	V	-43.32	-25.00		
	10 371.96	-62.27	11.68	-51.18	5.55	V	-45.05	-25.00		
531996 (2659.980)	5 319.96	-57.10	11.91	-58.65	3.79	V	-50.53	-25.00	1	82
	7 979.94	-56.39	11.10	-48.69	4.79	V	-42.38	-25.00		
	10 639.92	-62.69	11.58	-50.31	5.61	V	-44.34	-25.00		

- ▣ NR Band: n41
- ▣ Bandwidth: 70 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
506202 (2531.010)	5 062.02	-59.01	11.24	-60.38	3.78	V	-52.92	-25.00	1	94
	7 593.03	-53.30	11.62	-46.02	4.64	V	-39.04	-25.00		
	10 124.04	-60.80	11.37	-51.11	5.47	V	-45.21	-25.00		
518598 (2592.990)	5 185.98	-60.45	11.61	-61.62	3.80	V	-53.81	-25.00	1	1
	7 778.97	-58.53	11.26	-51.46	4.70	V	-44.90	-25.00		
	10 371.96	-62.49	11.68	-51.40	5.55	V	-45.27	-25.00		
531000 (2655.000)	5 310.00	-61.99	11.91	-63.10	3.82	V	-55.01	-25.00	1	1
	7 965.00	-61.43	11.07	-53.61	4.80	V	-47.34	-25.00		
	10 620.00	-61.50	11.58	-49.46	5.65	V	-43.53	-25.00		

- ▣ NR Band: n41
- ▣ Bandwidth: 80 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
507204 (2536.020)	5 072.04	-60.51	11.25	-61.67	3.80	V	-54.22	-25.00	1	108
	7 608.06	-53.32	11.60	-46.44	4.64	V	-39.48	-25.00		
	10 144.08	-60.65	11.36	-51.04	5.48	V	-45.16	-25.00		
518598 (2592.990)	5 185.98	-60.60	11.61	-61.77	3.80	V	-53.96	-25.00	1	1
	7 778.97	-59.01	11.26	-51.94	4.70	V	-45.38	-25.00		
	10 371.96	-60.50	11.68	-49.41	5.55	V	-43.28	-25.00		
529998 (2649.990)	5 299.98	-60.29	11.90	-61.79	3.83	V	-53.72	-25.00	1	1
	7 949.97	-62.58	11.03	-54.93	4.78	V	-48.68	-25.00		
	10 599.96	-63.25	11.58	-51.96	5.67	V	-46.05	-25.00		

- NR Band: n41
- Bandwidth: 90 MHz
- Modulation: PI/2 BPSK
- Distance: 1 meter
- SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
508200 (2541.000)	5 082.00	-61.54	11.27	-62.34	3.81	V	-54.88	-25.00	1	122
	7 623.00	-55.84	11.57	-48.90	4.65	V	-41.98	-25.00		
	10 164.00	-62.41	11.34	-52.55	5.50	V	-46.71	-25.00		
518598 (2592.990)	5 185.98	-60.29	11.61	-61.46	3.80	V	-53.65	-25.00	1	1
	7 778.97	-56.55	11.26	-49.48	4.70	V	-42.92	-25.00		
	10 371.96	-60.84	11.68	-49.75	5.55	V	-43.62	-25.00		
528996 (2644.980)	5 289.96	-61.89	11.89	-63.47	3.83	V	-55.41	-25.00	1	1
	7 934.94	-59.63	11.01	-52.25	4.77	V	-46.01	-25.00		
	10 579.92	-62.74	11.62	-51.59	5.65	V	-45.62	-25.00		

- ▣ NR Band: n41
- ▣ Bandwidth: 100 MHz
- ▣ Modulation: PI/2 BPSK
- ▣ Distance: 1 meter
- ▣ SCS: 30 kHz

Ch	Freq (MHz)	Measured Level (dBm)	Ant. Gain (dBi)	Substitute Level (dBm)	C.L	Pol	Result (dBm)	Limit (dBm)	RB	
									Size	Offset
509202 (2546.010)	5 092.02	-61.53	11.29	-62.41	3.78	V	-54.90	-25.00	1	136
	7 638.03	-56.23	11.54	-49.26	4.68	V	-42.40	-25.00		
	10 184.04	-62.49	11.35	-52.45	5.52	V	-46.62	-25.00		
518598 (2592.990)	5 185.98	-59.89	11.61	-61.06	3.80	V	-53.25	-25.00	1	1
	7 778.97	-57.70	11.26	-50.63	4.70	V	-44.07	-25.00		
	10 371.96	-60.21	11.68	-49.12	5.55	V	-42.99	-25.00		
528000 (2640.000)	5 280.00	-61.78	11.88	-63.80	3.80	V	-55.72	-25.00	1	1
	7 920.00	-58.55	11.02	-51.13	4.77	V	-44.88	-25.00		
	10 560.00	-62.02	11.65	-51.08	5.63	V	-45.06	-25.00		

8.3 PEAK-TO-AVERAGE RATIO

Band / BandWidth	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (dB)
Sub6 n41 / 10 MHz	2592.990	BPSK	24	0	4.49
		QPSK			5.72
		16-QAM			6.46
		64-QAM			6.60
		256-QAM			6.59
Sub6 n41 / 15 MHz		BPSK	36		4.37
		QPSK			5.70
		16-QAM			6.44
		64-QAM			6.57
		256-QAM			6.45
Sub6 n41 / 20 MHz		BPSK	50		4.48
		QPSK			5.74
		16-QAM			6.41
		64-QAM			6.60
		256-QAM			6.72
Sub6 n41 / 30 MHz		BPSK	75		4.54
		QPSK			5.82
		16-QAM			6.47
		64-QAM			6.56
		256-QAM			6.56
Sub6 n41 / 40 MHz		BPSK	100		5.03
		QPSK			5.82
		16-QAM			6.44
		64-QAM			6.59
		256-QAM			6.48

Sub6 n41 / 50 MHz	BPSK	128	4.79
	QPSK		5.78
	16-QAM		6.40
	64-QAM		6.48
	256-QAM		6.53
Sub6 n41 / 60 MHz	BPSK	162	4.72
	QPSK		5.75
	16-QAM		6.41
	64-QAM		6.52
	256-QAM		6.54
Sub6 n41 / 70 MHz	BPSK	180	6.11
	QPSK		6.22
	16-QAM		6.51
	64-QAM		6.62
	256-QAM		6.53
Sub6 n41 / 80 MHz	BPSK	216	4.53
	QPSK		5.77
	16-QAM		6.40
	64-QAM		6.51
	256-QAM		6.56
Sub6 n41 / 90 MHz	BPSK	243	4.62
	QPSK		5.70
	16-QAM		6.44
	64-QAM		6.54
	256-QAM		6.60
Sub6 n41 / 100 MHz	BPSK	270	4.57
	QPSK		5.76
	16-QAM		6.54
	64-QAM		6.59
	256-QAM		6.61

Note:

1. Plots of the EUT's Peak- to- Average Ratio are shown Page 68 ~ 122.

8.4 OCCUPIED BANDWIDTH

Band / BandWidth	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	Data (MHz)
Sub6 n41 / 10 MHz	2592.990	BPSK	24	0	8.6869
		QPSK			8.7042
		16-QAM			8.6736
		64-QAM			8.7197
		256-QAM			8.6740
Sub6 n41 / 15 MHz		BPSK	36		12.988
		QPSK			12.993
		16-QAM			12.932
		64-QAM			12.988
		256-QAM			12.943
Sub6 n41 / 20 MHz		BPSK	50		18.063
		QPSK			18.012
		16-QAM			17.950
		64-QAM			17.993
		256-QAM			17.932
Sub6 n41 / 30 MHz		BPSK	75		27.078
		QPSK			26.965
		16-QAM			27.019
		64-QAM			26.988
		256-QAM			26.972
Sub6 n41 / 40 MHz		BPSK	100		35.953
		QPSK			35.969
		16-QAM			35.891
		64-QAM			35.980
		256-QAM			35.859

Sub6 n41 / 50 MHz	BPSK	128	46.005
	QPSK		45.991
	16-QAM		45.948
	64-QAM		46.010
	256-QAM		45.823
Sub6 n41 / 60 MHz	BPSK	162	58.221
	QPSK		58.341
	16-QAM		58.342
	64-QAM		58.375
	256-QAM		58.327
Sub6 n41 / 70 MHz	BPSK	180	64.963
	QPSK		64.766
	16-QAM		64.659
	64-QAM		64.728
	256-QAM		64.959
Sub6 n41 / 80 MHz	BPSK	216	77.680
	QPSK		77.451
	16-QAM		77.475
	64-QAM		77.574
	256-QAM		77.635
Sub6 n41 / 90 MHz	BPSK	243	87.310
	QPSK		87.227
	16-QAM		87.622
	64-QAM		87.485
	256-QAM		87.278
Sub6 n41 / 100 MHz	BPSK	270	96.823
	QPSK		96.943
	16-QAM		96.791
	64-QAM		96.741
	256-QAM		96.915

Note:

1. Plots of the EUT's Occupied Bandwidth are shown Page 123 ~ 177.

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)
Sub 6 n41 / 10	2501.010	3.7987	30.200	-61.585	-31.385	-25.00
	2592.990	4.0878	30.200	-61.498	-31.298	
	2685.000	3.7987	30.200	-61.919	-31.719	
Sub 6 n41 / 15	2503.500	4.9153	30.200	-61.942	-31.742	
	2592.990	9.2323	30.815	-61.413	-30.598	
	2682.480	3.7787	30.200	-62.107	-31.907	
Sub 6 n41 / 20	2506.020	4.5165	30.200	-61.598	-31.398	
	2592.990	4.9352	30.200	-61.238	-31.038	
	2679.990	4.9951	30.200	-60.788	-30.588	
Sub 6 n41 / 30	2511.000	4.4866	30.200	-61.438	-31.238	
	2592.990	3.8286	30.200	-61.822	-31.622	
	2674.980	8.3649	30.815	-62.001	-31.186	
Sub 6 n41 / 40	2516.010	4.9452	30.200	-61.803	-31.603	
	2592.990	8.1157	30.815	-61.521	-30.706	
	2670.000	7.4975	30.815	-61.229	-30.414	
Sub 6 n41 / 50	2521.020	4.7259	30.200	-62.364	-32.164	
	2592.990	7.4377	30.815	-60.930	-30.115	
	2664.990	3.7388	30.200	-60.405	-30.205	
Sub 6 n41 / 60	2526.000	7.2283	30.815	-61.298	-30.483	
	2592.990	4.9253	30.200	-62.000	-31.800	
	2659.980	4.9751	30.200	-61.610	-31.410	
Sub 6 n41 / 70	2531.010	3.7488	30.200	-61.166	-30.966	
	2592.990	3.8086	30.200	-61.890	-31.690	
	2655.000	4.0679	30.200	-61.969	-31.769	
Sub 6 n41 / 80	2536.020	3.8385	30.200	-61.554	-31.354	
	2592.990	3.7787	30.200	-61.167	-30.967	
	2649.990	5.5235	30.815	-62.261	-31.446	
Sub 6 n41 / 90	2541.000	3.8385	30.200	-59.857	-29.657	
	2592.990	4.6461	30.200	-61.263	-31.063	
	2644.980	3.7588	30.200	-60.623	-30.423	
Sub 6 n41 / 100	2546.010	3.7289	30.200	-61.046	-30.846	
	2592.990	4.9053	30.200	-62.135	-31.935	
	2640.000	4.0379	30.200	-61.072	-30.872	

Note:

1. Plots of the EUT's Conducted Spurious Emissions are shown Page 178 ~ 243.

2. Factor(dB)

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

- Result(dBm) = Reading + Factor

Frequency Range (GHz)	Factor [dB]
0.03 - 1	27.494
1 - 5	30.200
5 - 10	30.815
10 - 15	31.340
15 - 20	31.713
Above 20	32.355

8.6 CHANNEL EDGE

BW (MHz)	Frequency (MHz)	Mod	RB (Size/ Offset)	2 495 MHz ~ 2 496 MHz	C.E ~ (C.E +1MHz)	2 490.5 MHz ~ 2 495 MHz	(C.E + 1 MHz) ~ (C.E + 5 MHz)	Below 2 490.5 MHz	(C.E + 5 MHz) ~ (C.E + X MHz)	Above (C.E + X MHz)
				Lower	Upper	Lower	Upper	Lower	Upper	Upper
10	2501.010	BPSK	Full RB	-24.58	-22.99	-28.75	-27.36	-38.31	-36.95	-41.67
15	2503.500	BPSK	Full RB	-26.03	-34.02	-30.75	-35.60	-36.18	-35.96	-42.65
20	2506.020	BPSK	Full RB	-26.93	-29.72	-32.81	-34.91	-37.23	-36.23	-43.04
30	2511.000	BPSK	Full RB	-28.21	-37.78	-35.84	-38.32	-39.70	-37.52	-41.46
40	2516.010	BPSK	Full RB	-27.15	-38.70	-36.36	-36.88	-38.90	-37.07	-45.46
50	2521.020	BPSK	Full RB	-25.29	-35.09	-32.23	-38.14	-42.84	-39.33	-41.94
60	2526.000	BPSK	Full RB	-20.36	-20.07	-29.43	-27.92	-40.31	-38.57	-42.11
70	2531.010	BPSK	Full RB	-24.97	-35.59	-30.41	-37.37	-40.86	-38.18	-43.34
80	2536.020	BPSK	Full RB	-25.17	-26.37	-31.02	-30.14	-40.53	-39.26	-45.99
90	2541.000	BPSK	Full RB	-23.51	-28.62	-30.80	-32.06	-41.31	-37.99	-48.89
100	2546.010	BPSK	Full RB	-23.17	-31.24	-30.98	-34.14	-40.88	-38.80	-51.65
Limit (dBm)				-13.0	-10.0	-13.0	-10.0	-25.0	-13.0	-25.0

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resoure Block Offset	C.E ~ (C.E $\pm$ 1 MHz)		(C.E $\pm$ 1 MHz) ~ (C.E $\pm$ 5 MHz)	
					Lower	Upper	Lower	Upper
10 MHz	2592.990	BPSK	Full RB	0	-24.64	-25.45	-28.31	-29.21
	2685.000	BPSK	Full RB	0	-24.32	-25.69	-28.08	-29.92
15 MHz	2592.990	BPSK	Full RB	0	-23.96	-34.31	-29.34	-34.16
	2682.480	BPSK	Full RB	0	-24.47	-35.17	-29.76	-36.70
20 MHz	2592.990	BPSK	Full RB	0	-24.75	-30.29	-31.17	-35.73
	2679.990	BPSK	Full RB	0	-25.84	-31.93	-31.76	-37.23
30 MHz	2592.990	BPSK	Full RB	0	-26.15	-37.72	-34.05	-38.08
	2674.980	BPSK	Full RB	0	-27.28	-40.20	-34.87	-40.50
40 MHz	2592.990	BPSK	Full RB	0	-25.62	-39.36	-34.75	-39.09
	2670.000	BPSK	Full RB	0	-26.46	-41.53	-35.71	-40.19
50 MHz	2592.990	BPSK	Full RB	0	-23.67	-35.85	-30.87	-38.76
	2664.990	BPSK	Full RB	0	-22.41	-38.06	-30.17	-41.59
60 MHz	2592.990	BPSK	Full RB	0	-18.65	-20.68	-27.42	-28.78
	2659.980	BPSK	Full RB	0	-18.15	-21.39	-27.32	-29.29
70 MHz	2592.990	BPSK	Full RB	0	-20.94	-35.09	-26.18	-37.59
	2655.000	BPSK	Full RB	0	-22.37	-37.18	-27.65	-39.39
80 MHz	2592.990	BPSK	Full RB	0	-23.21	-26.69	-29.18	-30.87
	2649.990	BPSK	Full RB	0	-21.96	-26.95	-28.29	-31.29
90 MHz	2592.990	BPSK	Full RB	0	-22.21	-29.31	-29.70	-32.93
	2644.980	BPSK	Full RB	0	-21.57	-31.30	-27.86	-34.41
100 MHz	2592.990	BPSK	Full RB	0	-20.93	-30.70	-29.24	-33.46
	2640.000	BPSK	Full RB	0	-21.05	-31.65	-29.25	-34.93
Limit (dBm)					-10.0		-10.0	

Band Width	Frequency (MHz)	Modulation	Resource Block Size	Resource Block Offset	(C.E $\pm$ 5 MHz) ~ (C.E $\pm$ X MHz)		Above (C.E $\pm$ X MHz)	
					Lower	Upper	Lower	Upper
10 MHz	2592.990	BPSK	Full RB	0	-35.50	-35.46	-40.74	-40.84
	2685.000	BPSK	Full RB	0	-36.52	-37.90	-41.75	-42.89
15 MHz	2592.990	BPSK	Full RB	0	-33.58	-34.67	-42.03	-42.38
	2682.480	BPSK	Full RB	0	-34.98	-37.16	-42.84	-44.39
20 MHz	2592.990	BPSK	Full RB	0	-34.65	-35.61	-45.72	-46.10
	2679.990	BPSK	Full RB	0	-36.11	-38.18	-44.86	-46.44
30 MHz	2592.990	BPSK	Full RB	0	-35.70	-37.37	-40.26	-42.26
	2674.980	BPSK	Full RB	0	-36.92	-39.49	-41.20	-46.08
40 MHz	2592.990	BPSK	Full RB	0	-36.70	-37.94	-46.23	-46.57
	2670.000	BPSK	Full RB	0	-38.23	-40.04	-47.45	-51.87
50 MHz	2592.990	BPSK	Full RB	0	-38.25	-38.58	-41.72	-42.37
	2664.990	BPSK	Full RB	0	-39.55	-39.72	-40.91	-48.88
60 MHz	2592.990	BPSK	Full RB	0	-37.28	-38.52	-42.25	-43.92
	2659.980	BPSK	Full RB	0	-37.24	-39.73	-41.04	-52.72
70 MHz	2592.990	BPSK	Full RB	0	-37.79	-38.60	-45.11	-45.44
	2655.000	BPSK	Full RB	0	-38.61	-39.19	-42.44	-53.38
80 MHz	2592.990	BPSK	Full RB	0	-37.42	-38.37	-53.23	-47.65
	2649.990	BPSK	Full RB	0	-37.78	-40.46	-44.44	-53.50
90 MHz	2592.990	BPSK	Full RB	0	-38.99	-38.29	-53.90	-52.30
	2644.980	BPSK	Full RB	0	-38.76	-40.02	-46.84	-53.64
100 MHz	2592.990	BPSK	Full RB	0	-38.19	-38.82	-53.20	-53.28
	2640.000	BPSK	Full RB	0	-38.54	-41.34	-51.14	-53.71
Limit (dBm)					-13.0		-25.0	

Note:

1. C.E = Channel Edge
2. X = X is the greater of 6 MHz or the actual emission bandwidth
3. 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) = 6.99
4. Plots of the EUT's Channel Edge are shown Page 244 ~ 320. (1RB & Full RB)

8.7 FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

BandWidth:	10 MHz
Voltage(100 %):	3.860 VDC
Batt. Endpoint:	3.400 VDC
LIMIT:	Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2501.010	100 %	+20(Ref)	2501 009 996	0.0	0.000 000	0.000
	100 %	-30	2501 009 994	-2.3	0.000 000	-0.001
	100 %	-20	2501 009 994	-1.6	0.000 000	-0.001
	100 %	-10	2501 009 992	-4.1	0.000 000	-0.002
	100 %	0	2501 009 995	-1.0	0.000 000	0.000
	100 %	+10	2501 009 993	-3.0	0.000 000	-0.001
	100 %	+30	2501 009 993	-2.9	0.000 000	-0.001
	100 %	+40	2501 009 993	-3.2	0.000 000	-0.001
	100 %	+50	2501 009 992	-4.4	0.000 000	-0.002
	Batt. Endpoint	+20	2501 009 991	-4.7	0.000 000	-0.002
2685.000	100 %	+20(Ref)	2684 999 998	0.0	0.000 000	0.000
	100 %	-30	2684 999 997	-0.6	0.000 000	0.000
	100 %	-20	2684 999 996	-1.1	0.000 000	0.000
	100 %	-10	2684 999 994	-3.7	0.000 000	-0.001
	100 %	0	2684 999 995	-2.9	0.000 000	-0.001
	100 %	+10	2684 999 995	-3.0	0.000 000	-0.001
	100 %	+30	2684 999 995	-2.5	0.000 000	-0.001
	100 %	+40	2684 999 997	-1.0	0.000 000	0.000
	100 %	+50	2684 999 995	-2.6	0.000 000	-0.001
	Batt. Endpoint	+20	2684 999 997	-0.9	0.000 000	0.000

- ▣ BandWidth: 15 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2503.500	100 %	+20(Ref)	2503 499 998	0.0	0.000 000	0.000
	100 %	-30	2503 499 996	-1.4	0.000 000	-0.001
	100 %	-20	2503 499 997	-0.5	0.000 000	0.000
	100 %	-10	2503 499 995	-2.5	0.000 000	-0.001
	100 %	0	2503 499 996	-1.7	0.000 000	-0.001
	100 %	+10	2503 499 996	-1.3	0.000 000	-0.001
	100 %	+30	2503 499 995	-2.4	0.000 000	-0.001
	100 %	+40	2503 499 995	-2.3	0.000 000	-0.001
	100 %	+50	2503 499 993	-5.0	0.000 000	-0.002
	Batt. Endpoint	+20	2503 499 994	-3.5	0.000 000	-0.001
2682.480	100 %	+20(Ref)	2682 479 997	0.0	0.000 000	0.000
	100 %	-30	2682 479 994	-3.8	0.000 000	-0.001
	100 %	-20	2682 479 995	-2.9	0.000 000	-0.001
	100 %	-10	2682 479 997	-0.6	0.000 000	0.000
	100 %	0	2682 479 997	-0.1	0.000 000	0.000
	100 %	+10	2682 479 997	-0.9	0.000 000	0.000
	100 %	+30	2682 479 995	-2.6	0.000 000	-0.001
	100 %	+40	2682 479 994	-3.5	0.000 000	-0.001
	100 %	+50	2682 479 995	-2.7	0.000 000	-0.001
	Batt. Endpoint	+20	2682 479 996	-1.5	0.000 000	-0.001

- ▣ BandWidth: 20 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2506.020	100 %	+20(Ref)	2506 019 996	0.0	0.000 000	0.000
	100 %	-30	2506 019 992	-3.8	0.000 000	-0.002
	100 %	-20	2506 019 992	-4.4	0.000 000	-0.002
	100 %	-10	2506 019 995	-1.4	0.000 000	-0.001
	100 %	0	2506 019 994	-1.7	0.000 000	-0.001
	100 %	+10	2506 019 993	-2.7	0.000 000	-0.001
	100 %	+30	2506 019 994	-2.2	0.000 000	-0.001
	100 %	+40	2506 019 992	-4.0	0.000 000	-0.002
	100 %	+50	2506 019 992	-3.6	0.000 000	-0.001
	Batt. Endpoint	+20	2506 019 992	-3.8	0.000 000	-0.002
2679.990	100 %	+20(Ref)	2679 990 000	0.0	0.000 000	0.000
	100 %	-30	2679 989 998	-1.6	0.000 000	-0.001
	100 %	-20	2679 989 996	-3.2	0.000 000	-0.001
	100 %	-10	2679 989 999	-0.7	0.000 000	0.000
	100 %	0	2679 989 998	-2.2	0.000 000	-0.001
	100 %	+10	2679 989 998	-1.7	0.000 000	-0.001
	100 %	+30	2679 989 997	-2.8	0.000 000	-0.001
	100 %	+40	2679 989 999	-0.8	0.000 000	0.000
	100 %	+50	2679 989 996	-4.1	0.000 000	-0.002
	Batt. Endpoint	+20	2679 989 999	-0.3	0.000 000	0.000

- ▣ BandWidth: 30 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2511.000	100 %	+20(Ref)	2510 999 996	0.0	0.000 000	0.000
	100 %	-30	2510 999 995	-0.6	0.000 000	0.000
	100 %	-20	2510 999 995	-0.6	0.000 000	0.000
	100 %	-10	2510 999 993	-3.0	0.000 000	-0.001
	100 %	0	2510 999 994	-2.0	0.000 000	-0.001
	100 %	+10	2510 999 995	-0.9	0.000 000	0.000
	100 %	+30	2510 999 994	-1.8	0.000 000	-0.001
	100 %	+40	2510 999 993	-2.4	0.000 000	-0.001
	100 %	+50	2510 999 993	-2.3	0.000 000	-0.001
	Batt. Endpoint	+20	2510 999 994	-1.7	0.000 000	-0.001
2674.980	100 %	+20(Ref)	2674 979 997	0.0	0.000 000	0.000
	100 %	-30	2674 979 993	-3.8	0.000 000	-0.001
	100 %	-20	2674 979 992	-4.6	0.000 000	-0.002
	100 %	-10	2674 979 993	-3.4	0.000 000	-0.001
	100 %	0	2674 979 998	1.5	0.000 000	0.001
	100 %	+10	2674 979 993	-3.5	0.000 000	-0.001
	100 %	+30	2674 979 993	-3.2	0.000 000	-0.001
	100 %	+40	2674 979 993	-3.6	0.000 000	-0.001
	100 %	+50	2674 979 992	-4.9	0.000 000	-0.002
	Batt. Endpoint	+20	2674 979 992	-4.3	0.000 000	-0.002

- ▣ BandWidth: 40 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2516.010	100 %	+20(Ref)	2516 009 999	0.0	0.000 000	0.000
	100 %	-30	2516 009 994	-5.6	0.000 000	-0.002
	100 %	-20	2516 009 998	-1.7	0.000 000	-0.001
	100 %	-10	2516 009 995	-4.4	0.000 000	-0.002
	100 %	0	2516 009 996	-3.5	0.000 000	-0.001
	100 %	+10	2516 009 994	-5.5	0.000 000	-0.002
	100 %	+30	2516 009 997	-2.7	0.000 000	-0.001
	100 %	+40	2516 009 997	-2.5	0.000 000	-0.001
	100 %	+50	2516 009 997	-2.2	0.000 000	-0.001
	Batt. Endpoint	+20	2516 009 995	-4.4	0.000 000	-0.002
2670.000	100 %	+20(Ref)	2669 999 997	0.0	0.000 000	0.000
	100 %	-30	2669 999 993	-3.2	0.000 000	-0.001
	100 %	-20	2669 999 993	-3.3	0.000 000	-0.001
	100 %	-10	2669 999 994	-2.4	0.000 000	-0.001
	100 %	0	2669 999 996	-0.8	0.000 000	0.000
	100 %	+10	2669 999 994	-2.4	0.000 000	-0.001
	100 %	+30	2669 999 993	-3.5	0.000 000	-0.001
	100 %	+40	2669 999 991	-5.7	0.000 000	-0.002
	100 %	+50	2669 999 994	-2.7	0.000 000	-0.001
	Batt. Endpoint	+20	2669 999 995	-1.6	0.000 000	-0.001

- ▣ BandWidth: 50 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2521.020	100 %	+20(Ref)	2521 019 995	0.0	0.000 000	0.000
	100 %	-30	2521 019 990	-5.0	0.000 000	-0.002
	100 %	-20	2521 019 992	-3.4	0.000 000	-0.001
	100 %	-10	2521 019 992	-3.5	0.000 000	-0.001
	100 %	0	2521 019 990	-5.1	0.000 000	-0.002
	100 %	+10	2521 019 995	0.1	0.000 000	0.000
	100 %	+30	2521 019 993	-2.2	0.000 000	-0.001
	100 %	+40	2521 019 993	-2.1	0.000 000	-0.001
	100 %	+50	2521 019 992	-3.0	0.000 000	-0.001
	Batt. Endpoint	+20	2521 019 992	-3.2	0.000 000	-0.001
2664.990	100 %	+20(Ref)	2664 989 997	0.0	0.000 000	0.000
	100 %	-30	2664 989 997	-0.2	0.000 000	0.000
	100 %	-20	2664 989 994	-2.9	0.000 000	-0.001
	100 %	-10	2664 989 994	-3.2	0.000 000	-0.001
	100 %	0	2664 989 994	-2.9	0.000 000	-0.001
	100 %	+10	2664 989 993	-4.0	0.000 000	-0.001
	100 %	+30	2664 989 994	-3.8	0.000 000	-0.001
	100 %	+40	2664 989 993	-4.5	0.000 000	-0.002
	100 %	+50	2664 989 994	-3.7	0.000 000	-0.001
	Batt. Endpoint	+20	2664 989 996	-1.8	0.000 000	-0.001

- ▣ BandWidth: 60 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2526.000	100 %	+20(Ref)	2525 999 997	0.0	0.000 000	0.000
	100 %	-30	2525 999 994	-3.3	0.000 000	-0.001
	100 %	-20	2525 999 997	-0.3	0.000 000	0.000
	100 %	-10	2525 999 996	-1.2	0.000 000	0.000
	100 %	0	2525 999 996	-0.7	0.000 000	0.000
	100 %	+10	2525 999 997	-0.4	0.000 000	0.000
	100 %	+30	2525 999 994	-2.7	0.000 000	-0.001
	100 %	+40	2525 999 994	-2.8	0.000 000	-0.001
	100 %	+50	2525 999 993	-4.0	0.000 000	-0.002
	Batt. Endpoint	+20	2525 999 994	-3.4	0.000 000	-0.001
2659.980	100 %	+20(Ref)	2659 979 995	0.0	0.000 000	0.000
	100 %	-30	2659 979 993	-2.1	0.000 000	-0.001
	100 %	-20	2659 979 991	-4.8	0.000 000	-0.002
	100 %	-10	2659 979 992	-3.8	0.000 000	-0.001
	100 %	0	2659 979 992	-3.1	0.000 000	-0.001
	100 %	+10	2659 979 993	-2.6	0.000 000	-0.001
	100 %	+30	2659 979 991	-4.2	0.000 000	-0.002
	100 %	+40	2659 979 991	-4.5	0.000 000	-0.002
	100 %	+50	2659 979 991	-4.2	0.000 000	-0.002
	Batt. Endpoint	+20	2659 979 991	-4.3	0.000 000	-0.002

▣ BandWidth:	<u>70 MHz</u>
▣ Voltage(100 %):	<u>3.860 VDC</u>
▣ Batt. Endpoint:	<u>3.400 VDC</u>
▣ LIMIT:	<u>Emission must remain in band</u>

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2531.010	100 %	+20(Ref)	2531 009 997	0.0	0.000 000	0.000
	100 %	-30	2531 009 996	-1.3	0.000 000	-0.001
	100 %	-20	2531 009 996	-1.0	0.000 000	0.000
	100 %	-10	2531 009 995	-1.7	0.000 000	-0.001
	100 %	0	2531 009 995	-1.6	0.000 000	-0.001
	100 %	+10	2531 009 995	-2.2	0.000 000	-0.001
	100 %	+30	2531 009 995	-2.1	0.000 000	-0.001
	100 %	+40	2531 009 996	-1.3	0.000 000	0.000
	100 %	+50	2531 009 993	-3.5	0.000 000	-0.001
	Batt. Endpoint	+20	2531 009 994	-2.9	0.000 000	-0.001
2655.000	100 %	+20(Ref)	2654 999 996	0.0	0.000 000	0.000
	100 %	-30	2654 999 993	-3.1	0.000 000	-0.001
	100 %	-20	2654 999 992	-4.3	0.000 000	-0.002
	100 %	-10	2654 999 992	-4.3	0.000 000	-0.002
	100 %	0	2654 999 992	-3.9	0.000 000	-0.001
	100 %	+10	2654 999 994	-1.9	0.000 000	-0.001
	100 %	+30	2654 999 992	-3.7	0.000 000	-0.001
	100 %	+40	2654 999 991	-4.6	0.000 000	-0.002
	100 %	+50	2654 999 992	-4.6	0.000 000	-0.002
	Batt. Endpoint	+20	2654 999 993	-3.1	0.000 000	-0.001

- ▣ BandWidth: 80 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2536.020	100 %	+20(Ref)	2536 019 999	0.0	0.000 000	0.000
	100 %	-30	2536 019 997	-1.5	0.000 000	-0.001
	100 %	-20	2536 019 999	0.2	0.000 000	0.000
	100 %	-10	2536 020 000	1.0	0.000 000	0.000
	100 %	0	2536 019 998	-0.4	0.000 000	0.000
	100 %	+10	2536 019 998	-0.4	0.000 000	0.000
	100 %	+30	2536 019 996	-2.1	0.000 000	-0.001
	100 %	+40	2536 019 995	-3.7	0.000 000	-0.001
	100 %	+50	2536 019 996	-2.8	0.000 000	-0.001
	Batt. Endpoint	+20	2536 019 997	-1.6	0.000 000	-0.001
2649.990	100 %	+20(Ref)	2649 989 993	0.0	0.000 000	0.000
	100 %	-30	2649 989 991	-2.3	0.000 000	-0.001
	100 %	-20	2649 989 992	-1.8	0.000 000	-0.001
	100 %	-10	2649 989 992	-1.8	0.000 000	-0.001
	100 %	0	2649 989 991	-2.5	0.000 000	-0.001
	100 %	+10	2649 989 991	-3.0	0.000 000	-0.001
	100 %	+30	2649 989 992	-1.8	0.000 000	-0.001
	100 %	+40	2649 989 991	-2.3	0.000 000	-0.001
	100 %	+50	2649 989 993	-0.8	0.000 000	0.000
	Batt. Endpoint	+20	2649 989 989	-4.2	0.000 000	-0.002

- ▣ BandWidth: 90 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

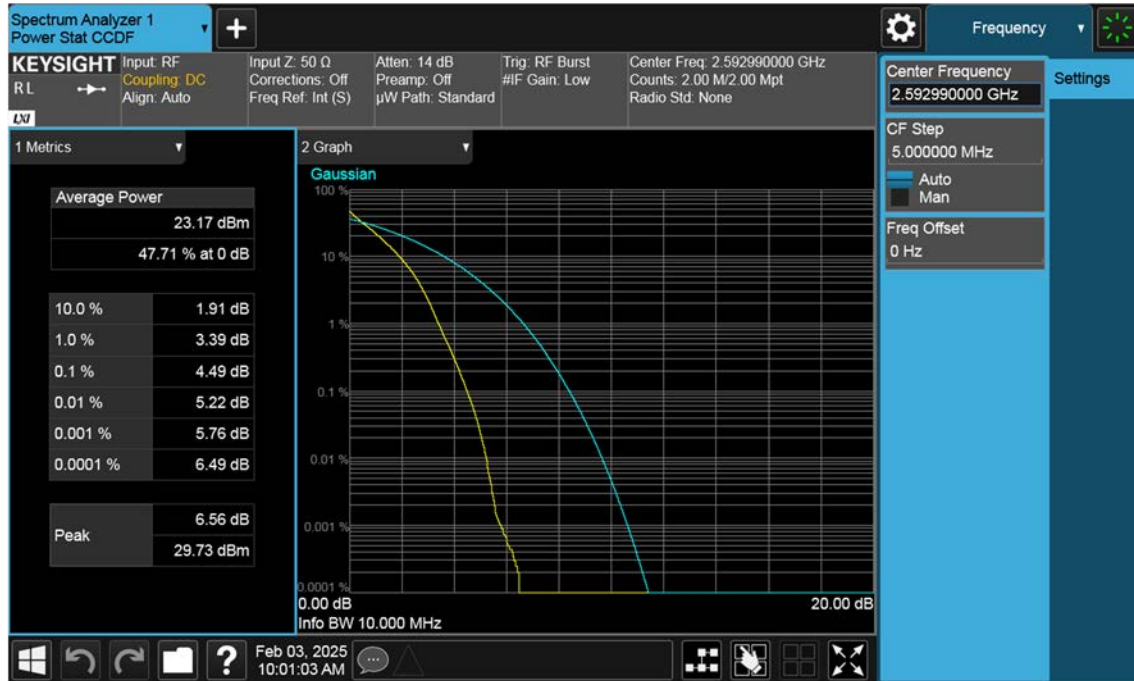
Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2541.000	100 %	+20(Ref)	2541 000 000	0.0	0.000 000	0.000
	100 %	-30	2541 000 000	0.0	0.000 000	0.000
	100 %	-20	2540 999 996	-3.9	0.000 000	-0.002
	100 %	-10	2540 999 998	-2.2	0.000 000	-0.001
	100 %	0	2540 999 996	-3.8	0.000 000	-0.001
	100 %	+10	2540 999 998	-2.3	0.000 000	-0.001
	100 %	+30	2540 999 998	-2.3	0.000 000	-0.001
	100 %	+40	2540 999 999	-0.7	0.000 000	0.000
	100 %	+50	2540 999 996	-3.7	0.000 000	-0.001
	Batt. Endpoint	+20	2540 999 995	-5.1	0.000 000	-0.002
2644.980	100 %	+20(Ref)	2644 980 000	0.0	0.000 000	0.000
	100 %	-30	2644 979 998	-2.0	0.000 000	-0.001
	100 %	-20	2644 979 996	-3.7	0.000 000	-0.001
	100 %	-10	2644 979 999	-0.6	0.000 000	0.000
	100 %	0	2644 979 998	-1.1	0.000 000	0.000
	100 %	+10	2644 979 996	-3.2	0.000 000	-0.001
	100 %	+30	2644 979 998	-1.8	0.000 000	-0.001
	100 %	+40	2644 979 997	-2.1	0.000 000	-0.001
	100 %	+50	2644 979 997	-2.1	0.000 000	-0.001
	Batt. Endpoint	+20	2644 979 998	-1.9	0.000 000	-0.001

- ▣ BandWidth: 100 MHz
- ▣ Voltage(100 %): 3.860 VDC
- ▣ Batt. Endpoint: 3.400 VDC
- ▣ LIMIT: Emission must remain in band

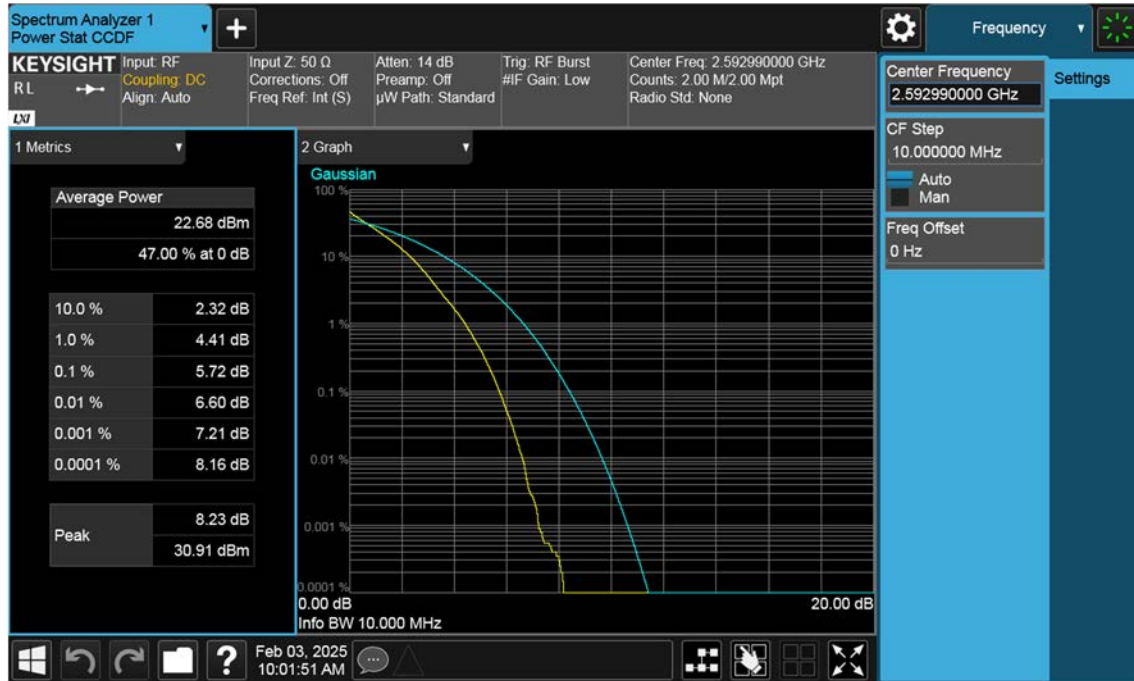
Test. Frequency	Voltage	Temp.	Frequency	Frequency Error	Deviation	ppm
(MHz)	(%)	(°C)	(Hz)	(Hz)	(%)	
2546.010	100 %	+20(Ref)	2546 009 997	0.0	0.000 000	0.000
	100 %	-30	2546 009 996	-1.8	0.000 000	-0.001
	100 %	-20	2546 009 994	-3.8	0.000 000	-0.002
	100 %	-10	2546 009 994	-3.9	0.000 000	-0.002
	100 %	0	2546 009 994	-3.0	0.000 000	-0.001
	100 %	+10	2546 009 994	-3.0	0.000 000	-0.001
	100 %	+30	2546 009 994	-3.2	0.000 000	-0.001
	100 %	+40	2546 009 995	-2.4	0.000 000	-0.001
	100 %	+50	2546 009 993	-4.4	0.000 000	-0.002
	Batt. Endpoint	+20	2546 009 996	-1.9	0.000 000	-0.001
2640.000	100 %	+20(Ref)	2639 999 996	0.0	0.000 000	0.000
	100 %	-30	2639 999 995	-1.4	0.000 000	-0.001
	100 %	-20	2639 999 995	-1.2	0.000 000	0.000
	100 %	-10	2639 999 995	-1.2	0.000 000	0.000
	100 %	0	2639 999 995	-1.7	0.000 000	-0.001
	100 %	+10	2639 999 992	-4.1	0.000 000	-0.002
	100 %	+30	2639 999 995	-1.4	0.000 000	-0.001
	100 %	+40	2639 999 995	-1.4	0.000 000	-0.001
	100 %	+50	2639 999 994	-1.9	0.000 000	-0.001
	Batt. Endpoint	+20	2639 999 996	-0.1	0.000 000	0.000

9. TEST PLOTS

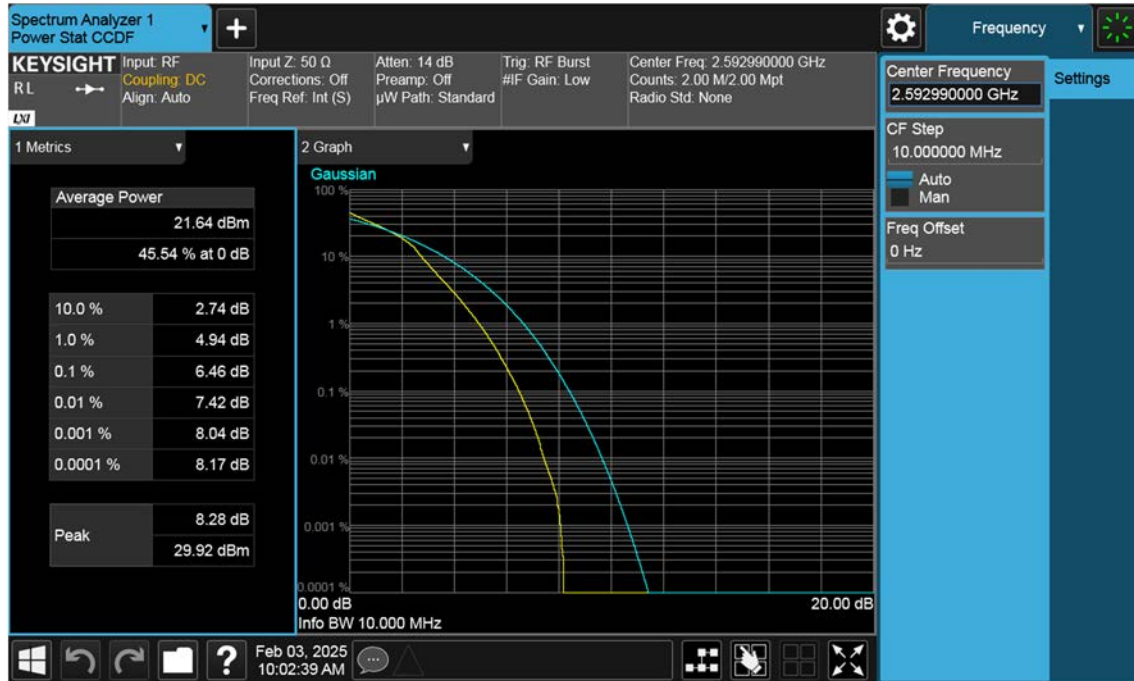
NR41_10 M_PAR_Mid_BPSK_FullRB



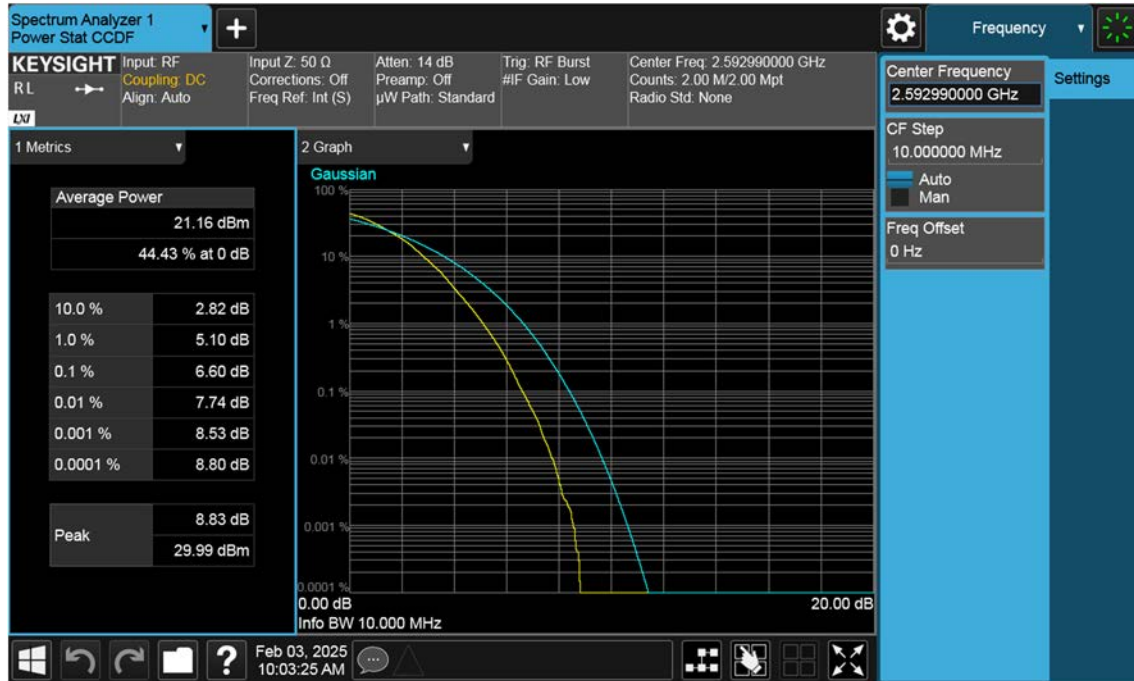
NR41_10 M_PAR_Mid_QPSK_FullRB



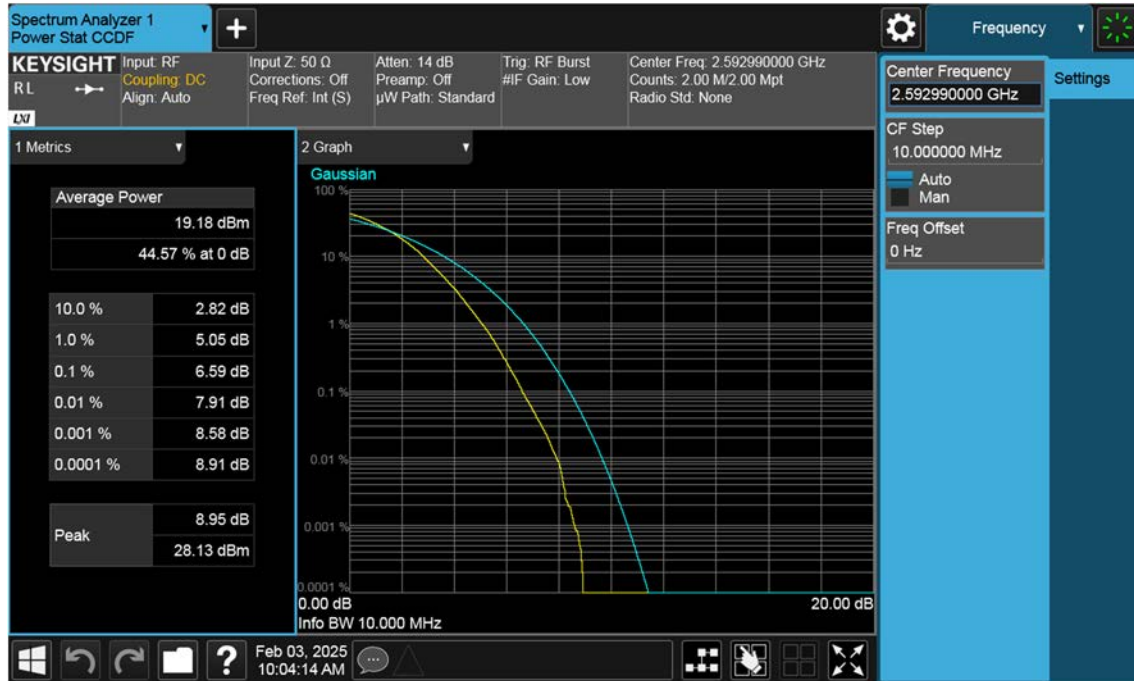
NR41_10 M_PAR_Mid_16QAM_FullRB



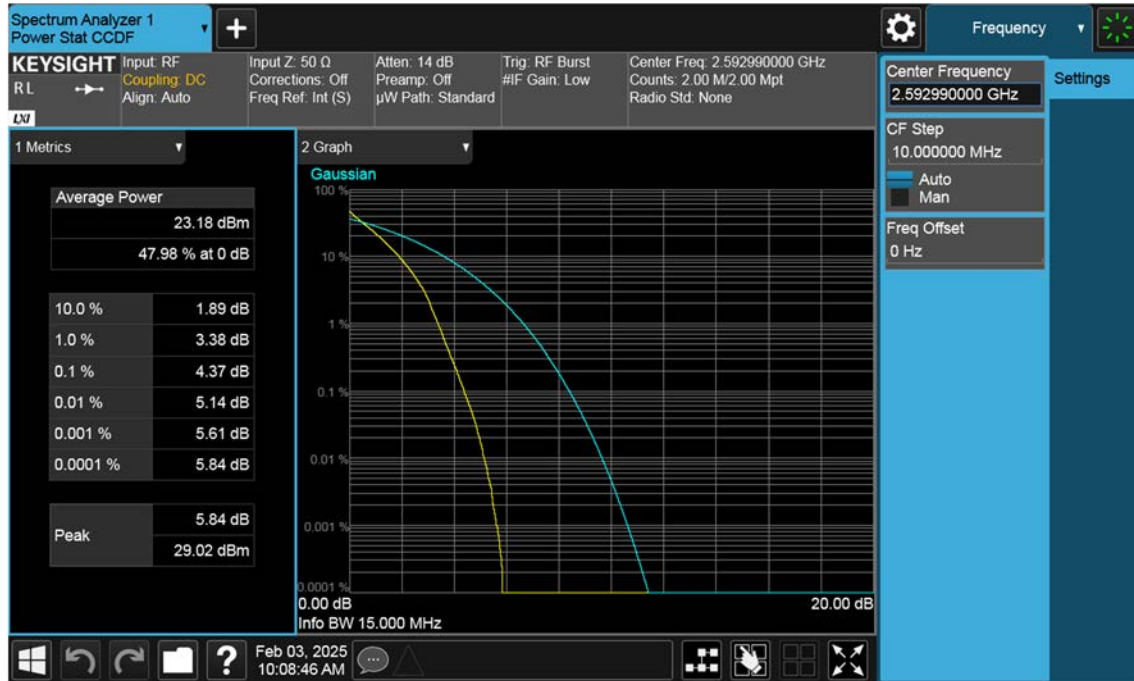
NR41_10 M_PAR_Mid_64QAM_FullRB



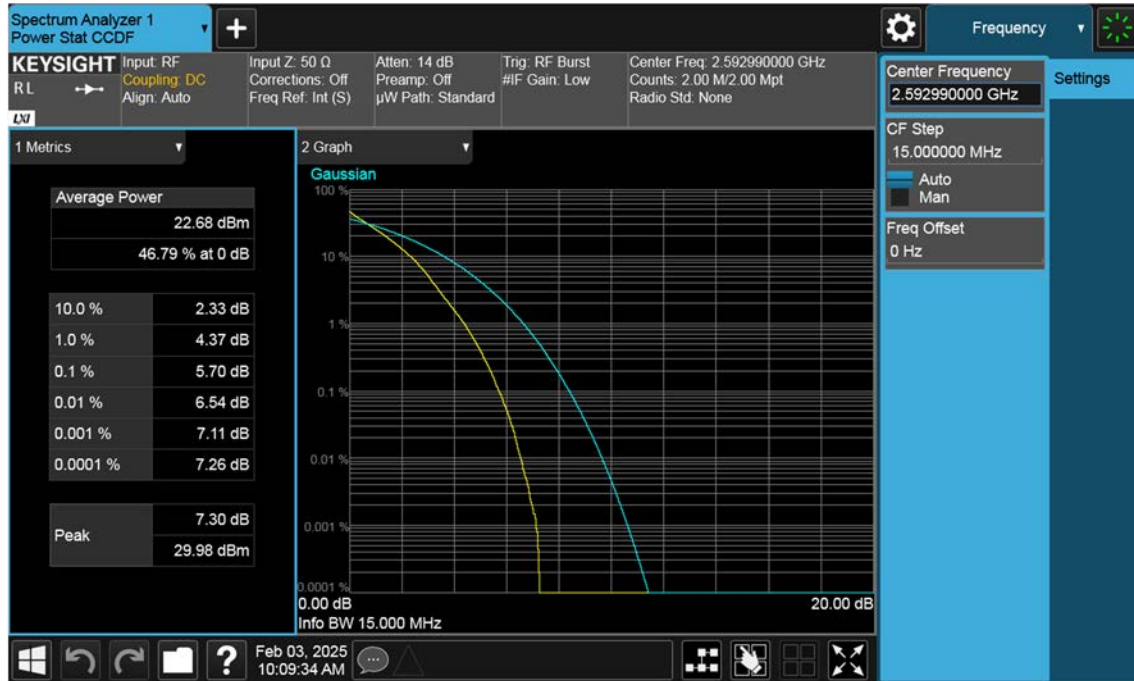
NR41_10 M_PAR_Mid_256QAM_FullRB



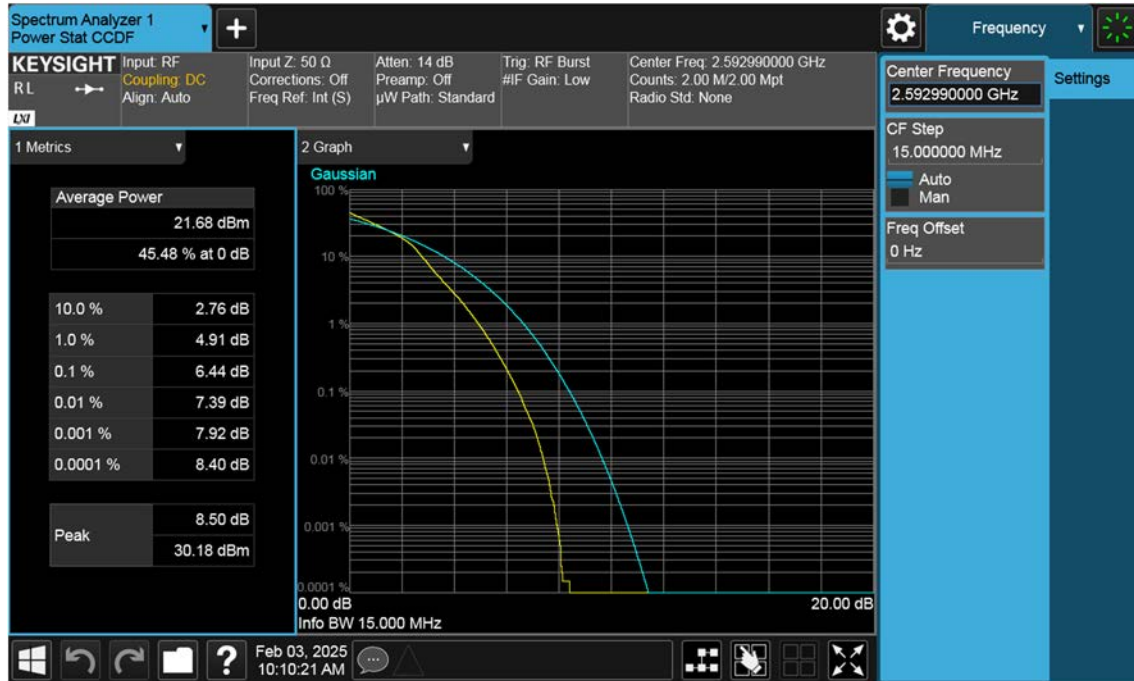
NR41_15 M_PAR_Mid_BPSK_FullRB



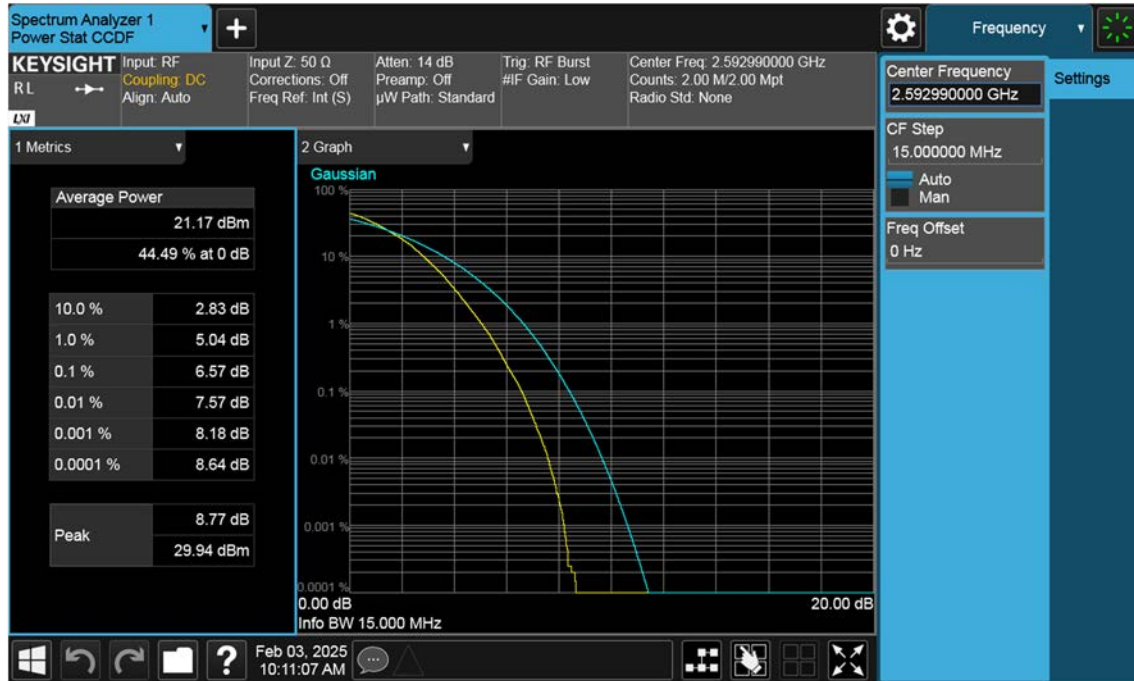
NR41_15 M_PAR_Mid_QPSK_FullRB



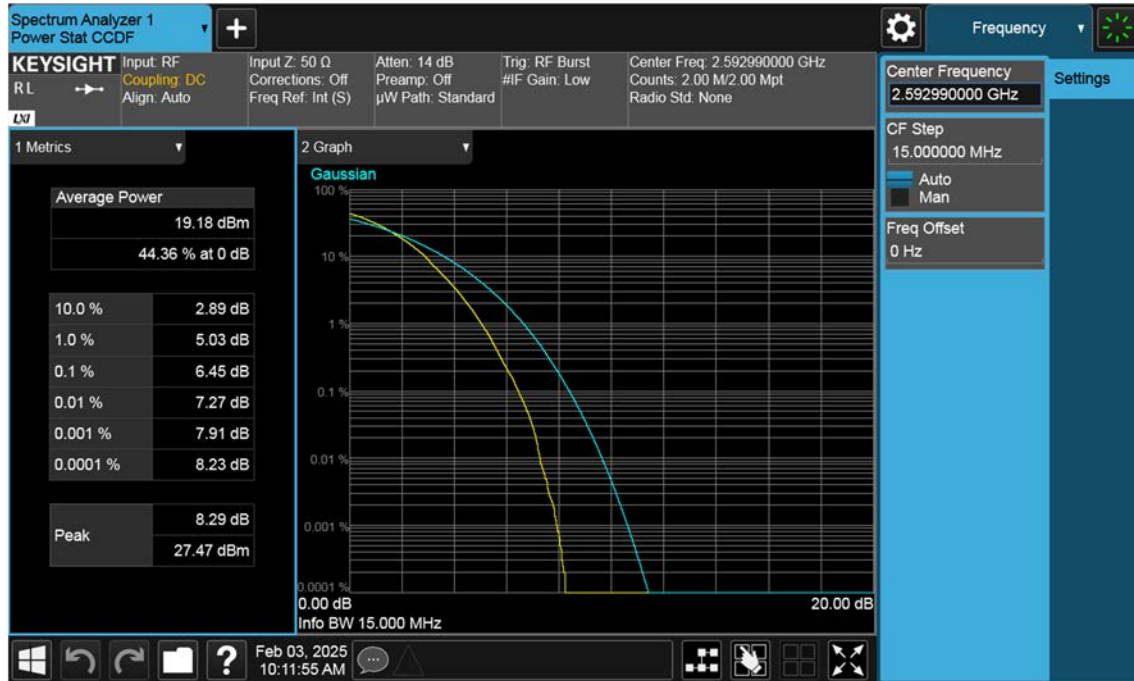
NR41_15 M_PAR_Mid_16QAM_FullRB



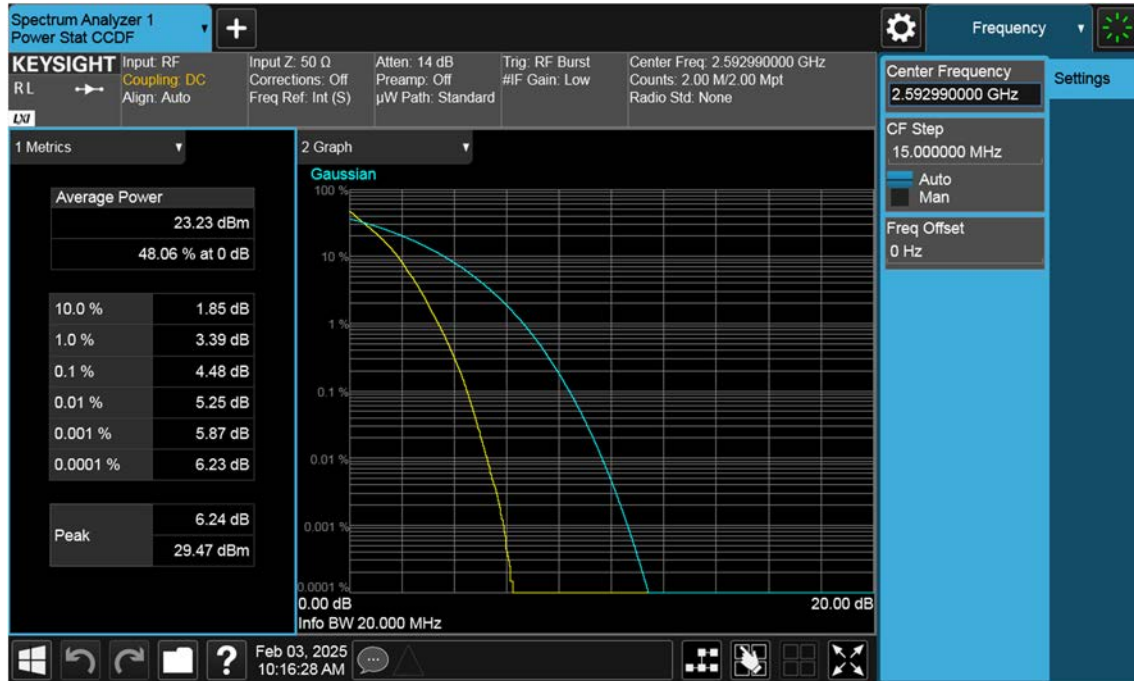
NR41_15 M_PAR_Mid_64QAM_FullRB



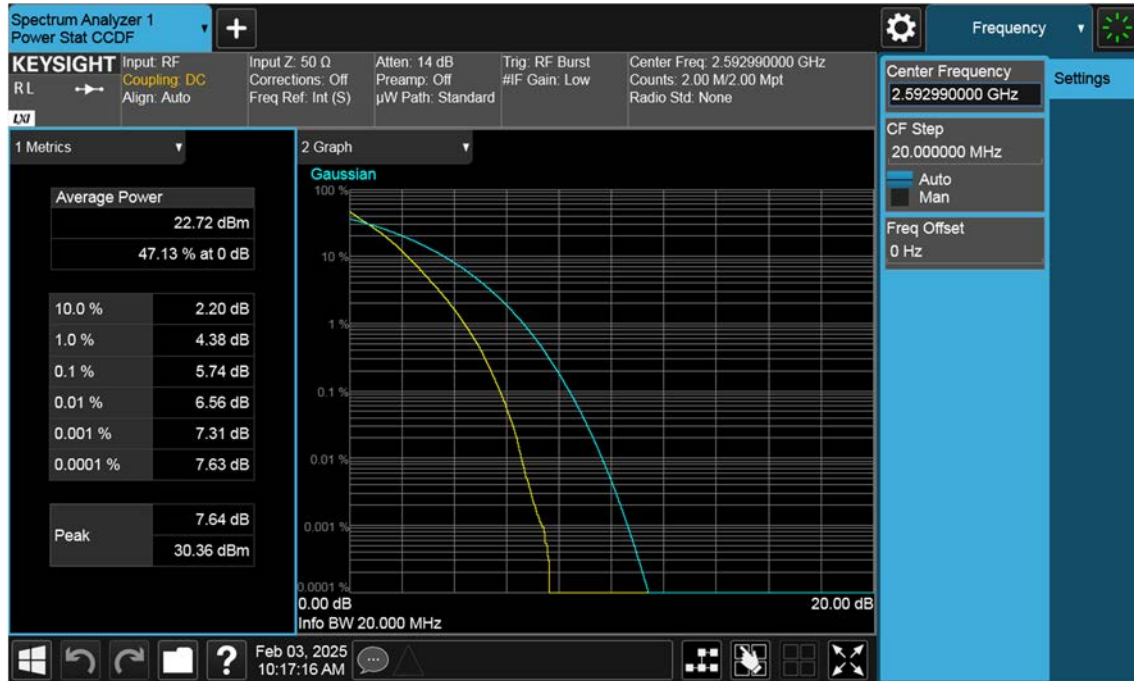
NR41_15 M_PAR_Mid_256QAM_FullRB



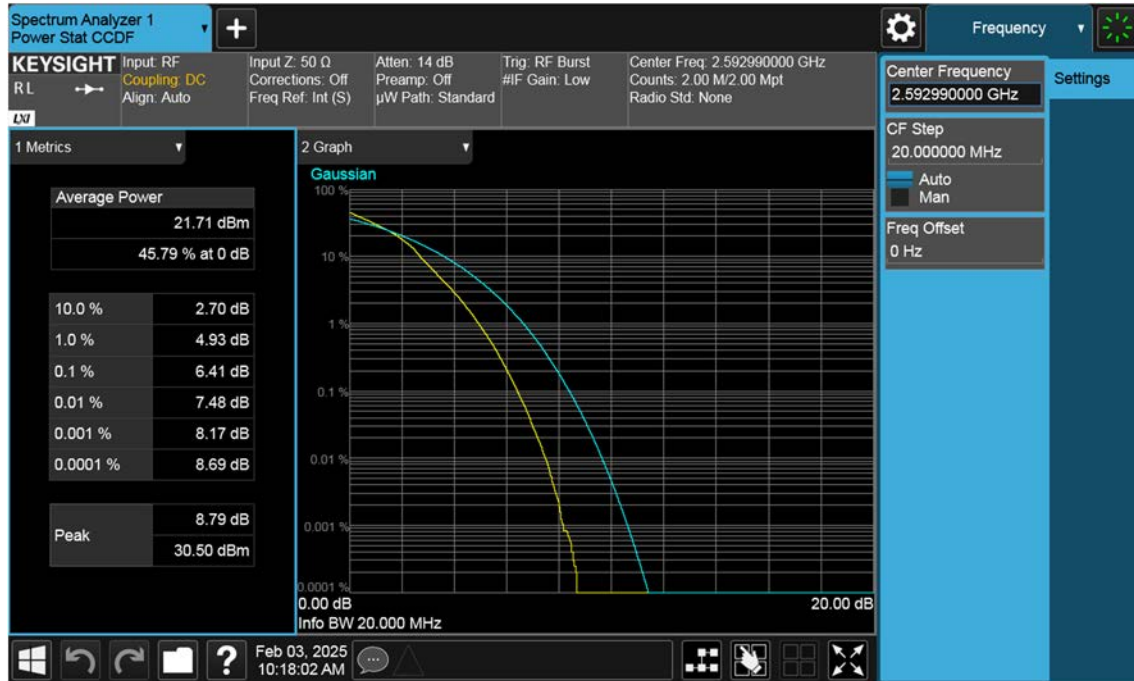
NR41_20 M_PAR_Mid_BPSK_FullRB



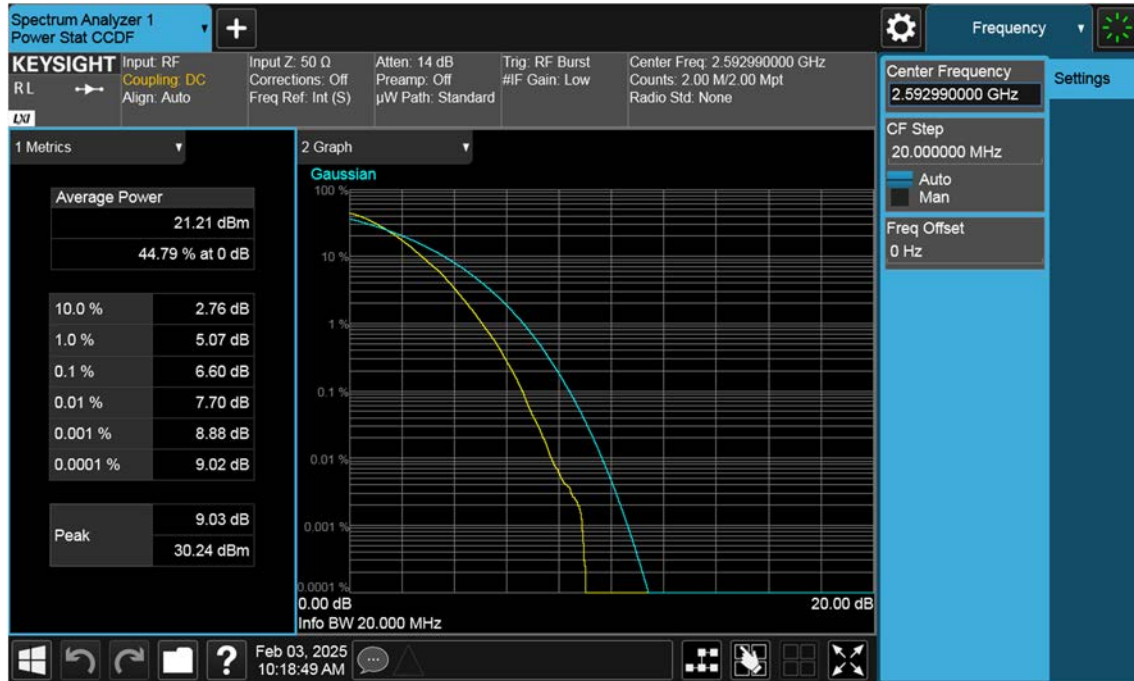
NR41_20 M_PAR_Mid_QPSK_FullRB



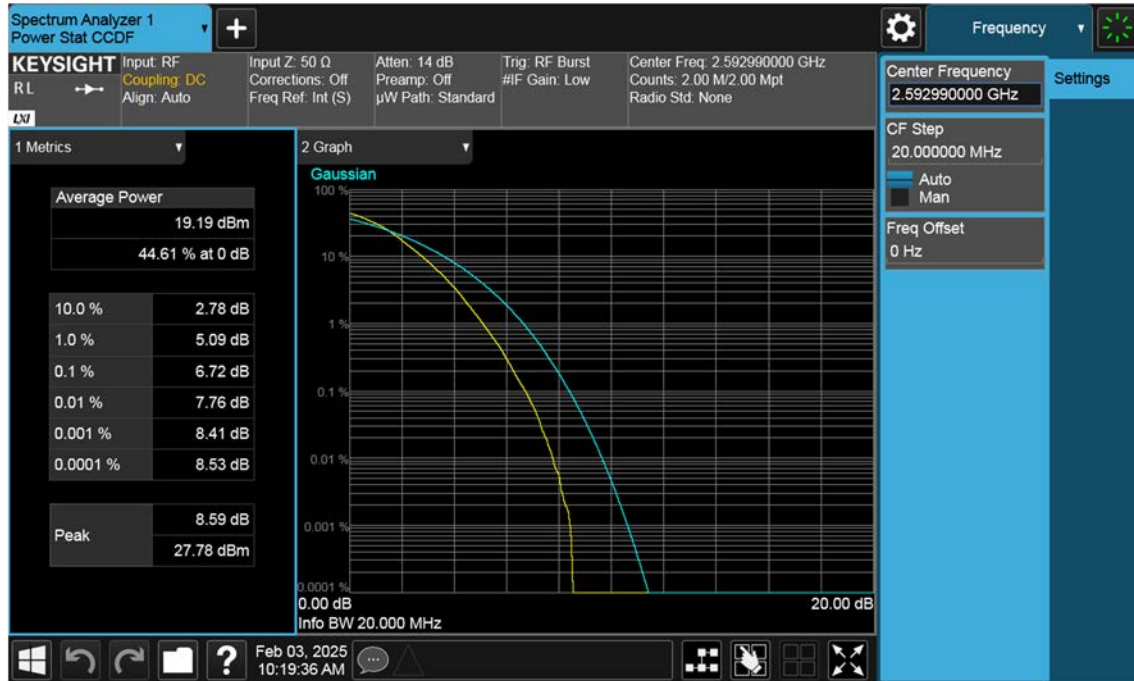
NR41_20 M_PAR_Mid_16QAM_FullRB



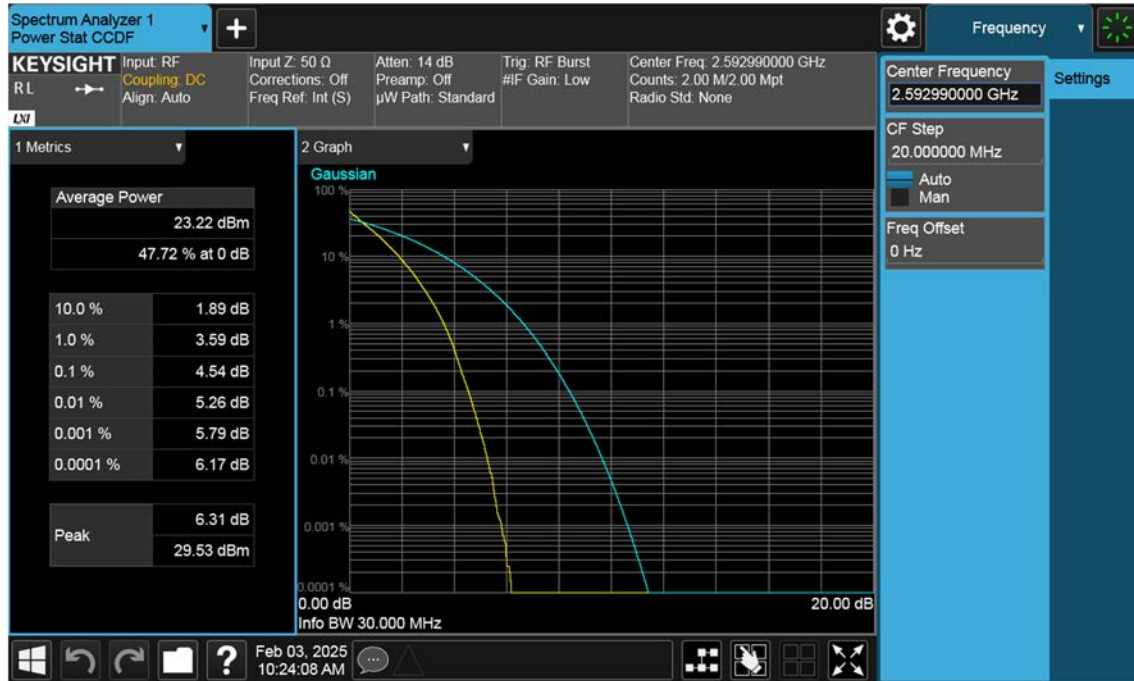
NR41_20 M_PAR_Mid_64QAM_FullRB



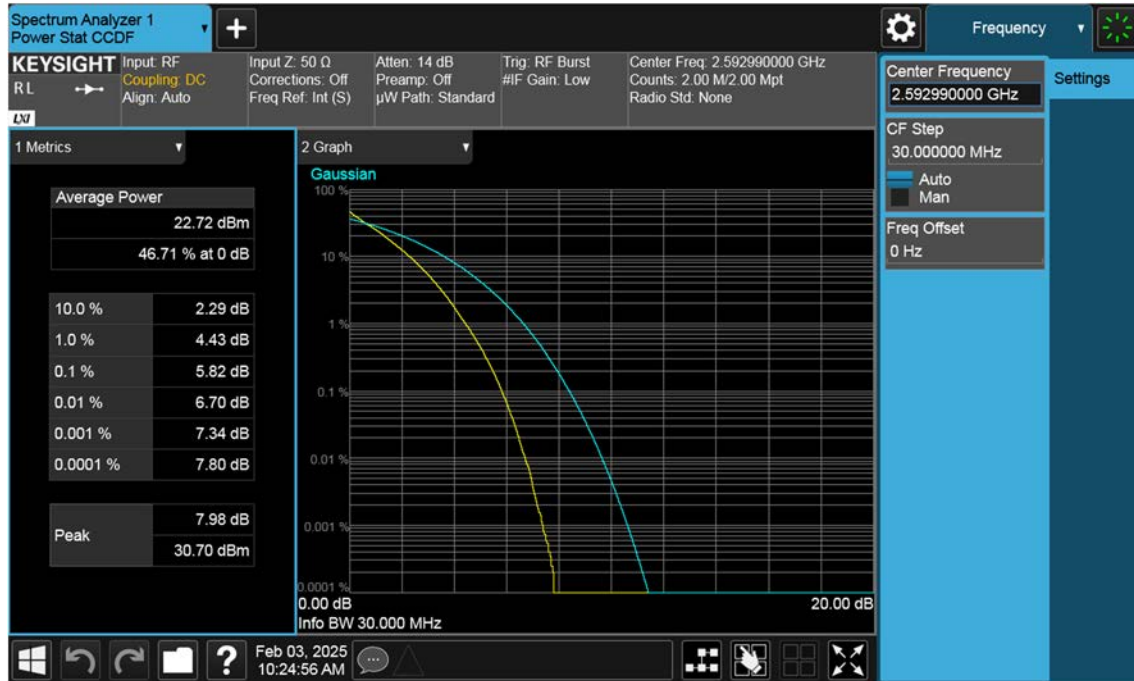
NR41_20 M_PAR_Mid_256QAM_FullRB



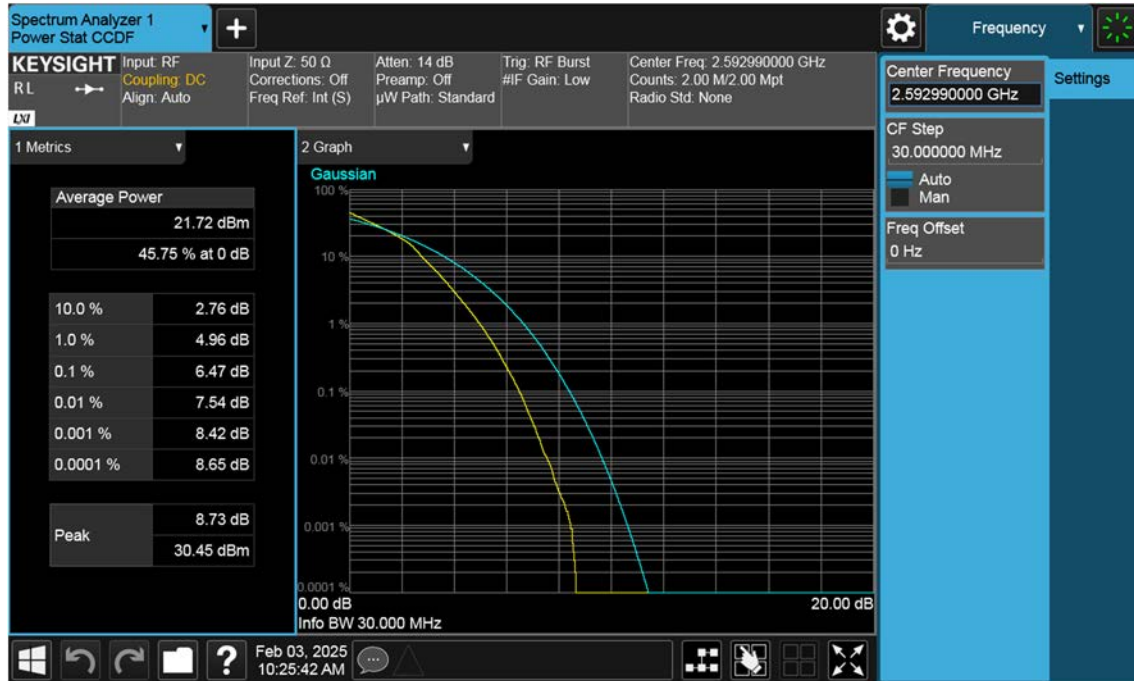
NR41_30 M_PAR_Mid_BPSK_FullRB



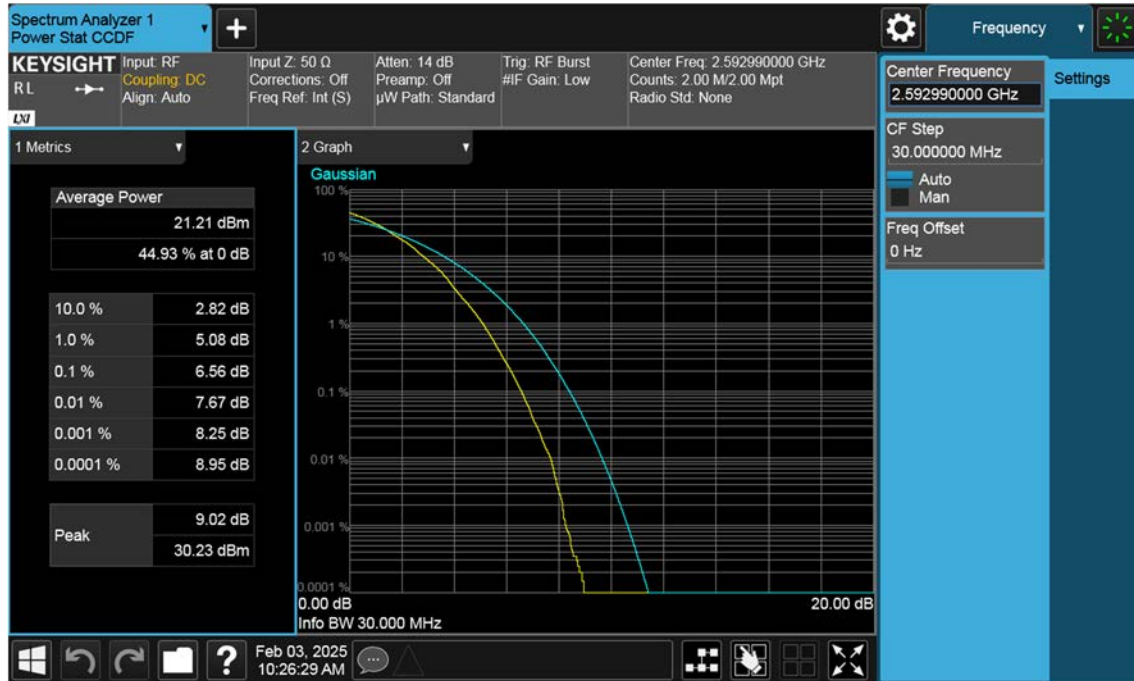
NR41_30 M_PAR_Mid_QPSK_FullRB



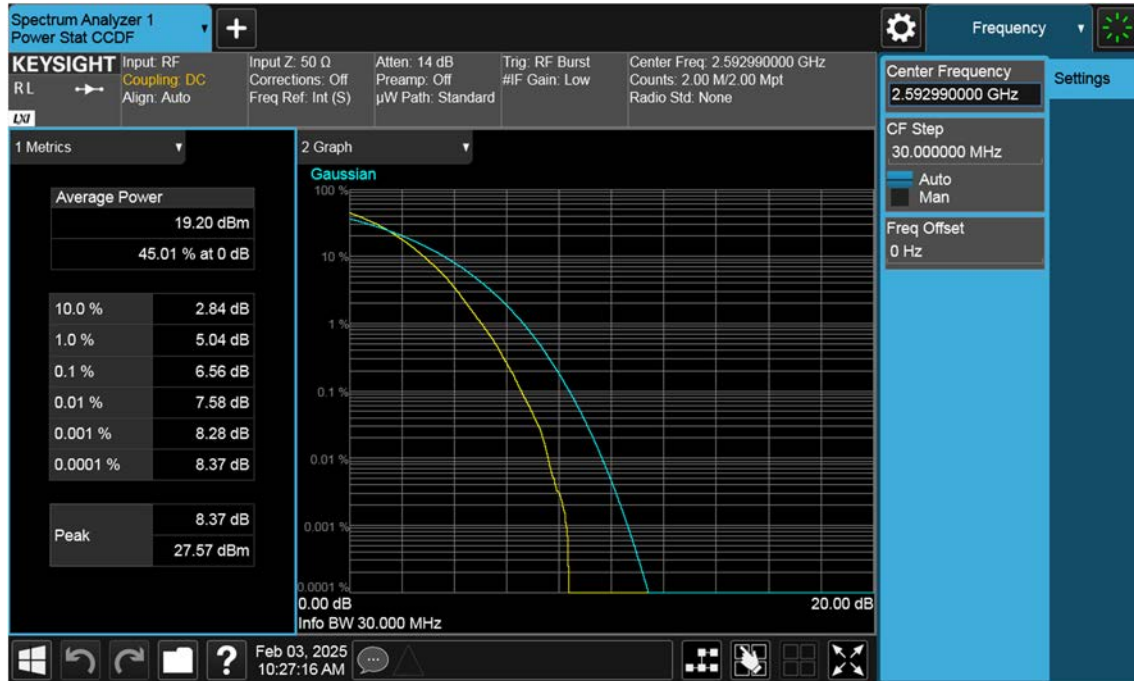
NR41_30 M_PAR_Mid_16QAM_FullRB



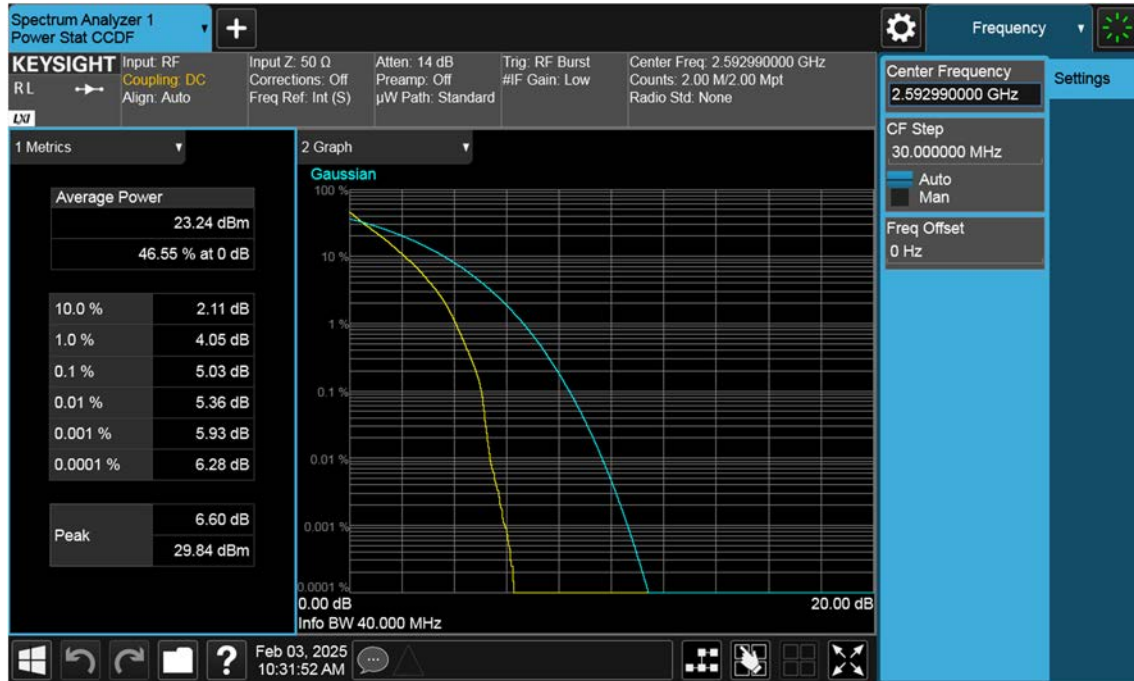
NR41_30 M_PAR_Mid_64QAM_FullRB



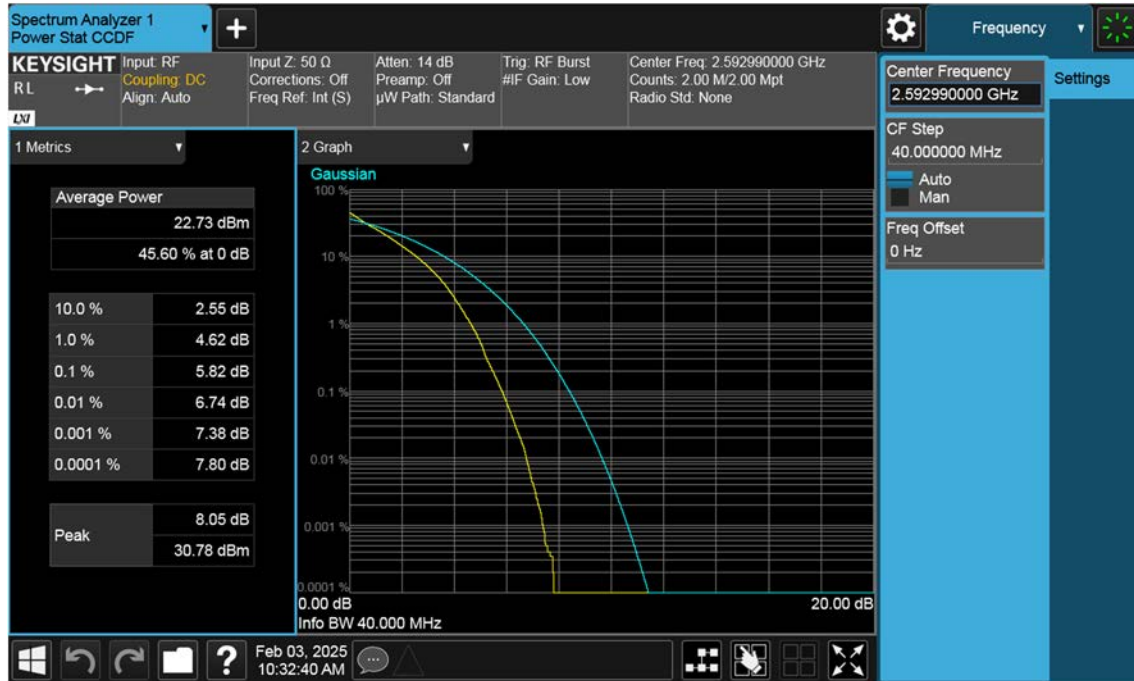
NR41_30 M_PAR_Mid_256QAM_FullRB



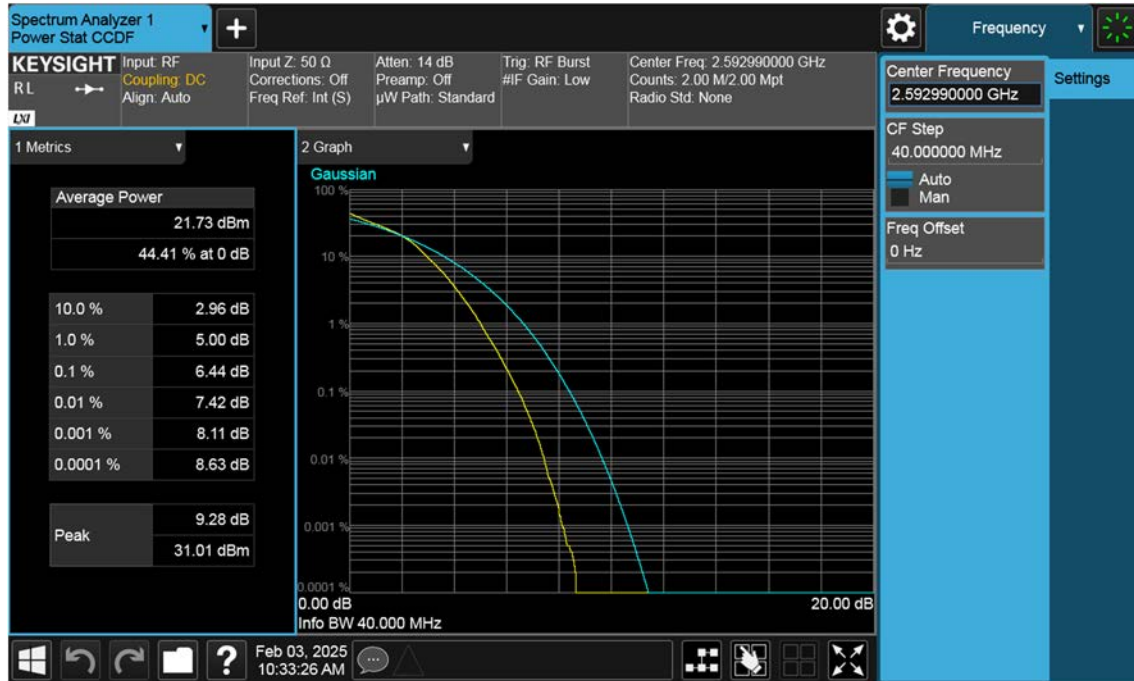
NR41_40 M_PAR_Mid_BPSK_FullRB



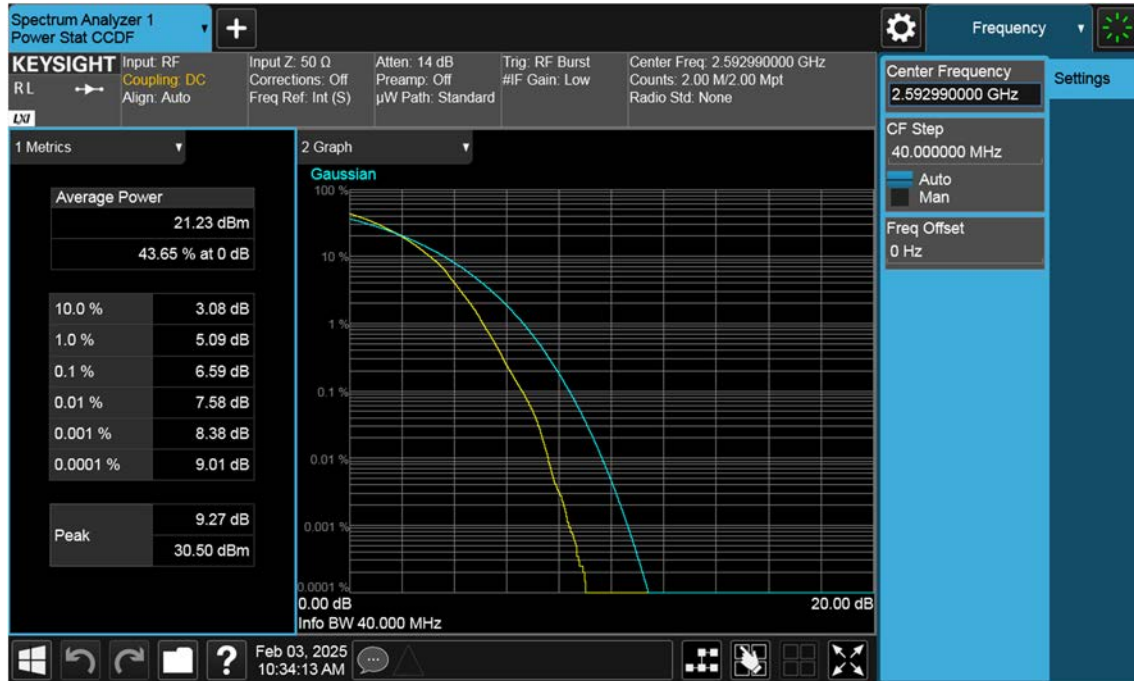
NR41_40 M_PAR_Mid_QPSK_FullRB



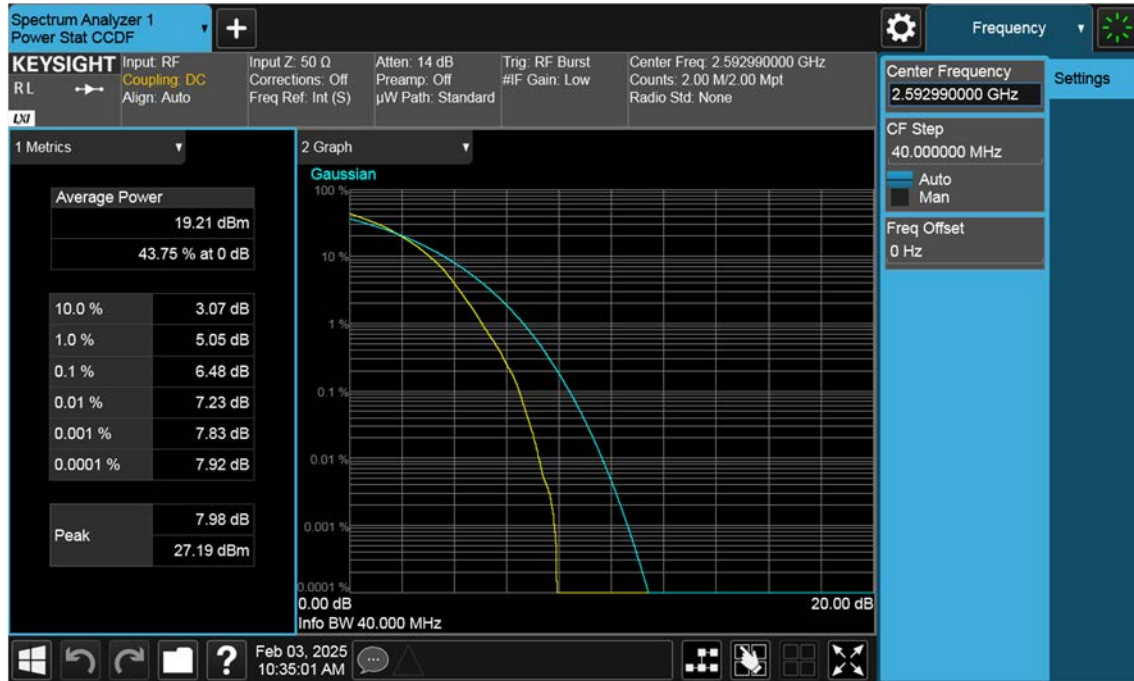
NR41_40 M_PAR_Mid_16QAM_FullRB



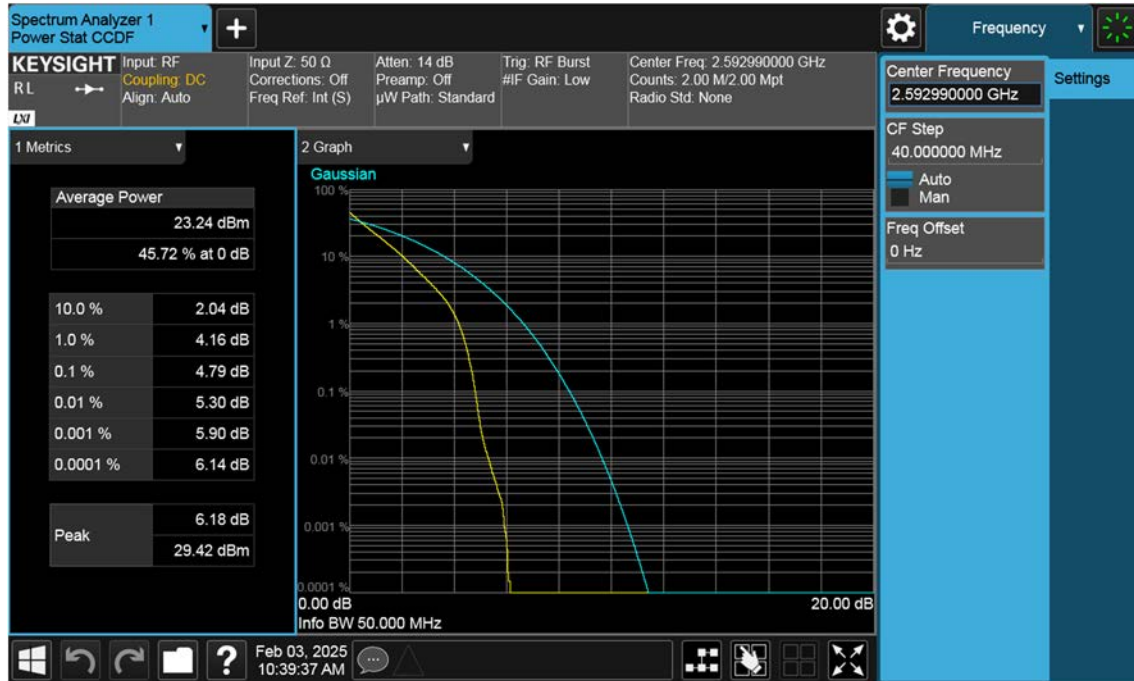
NR41_40 M_PAR_Mid_64QAM_FullRB



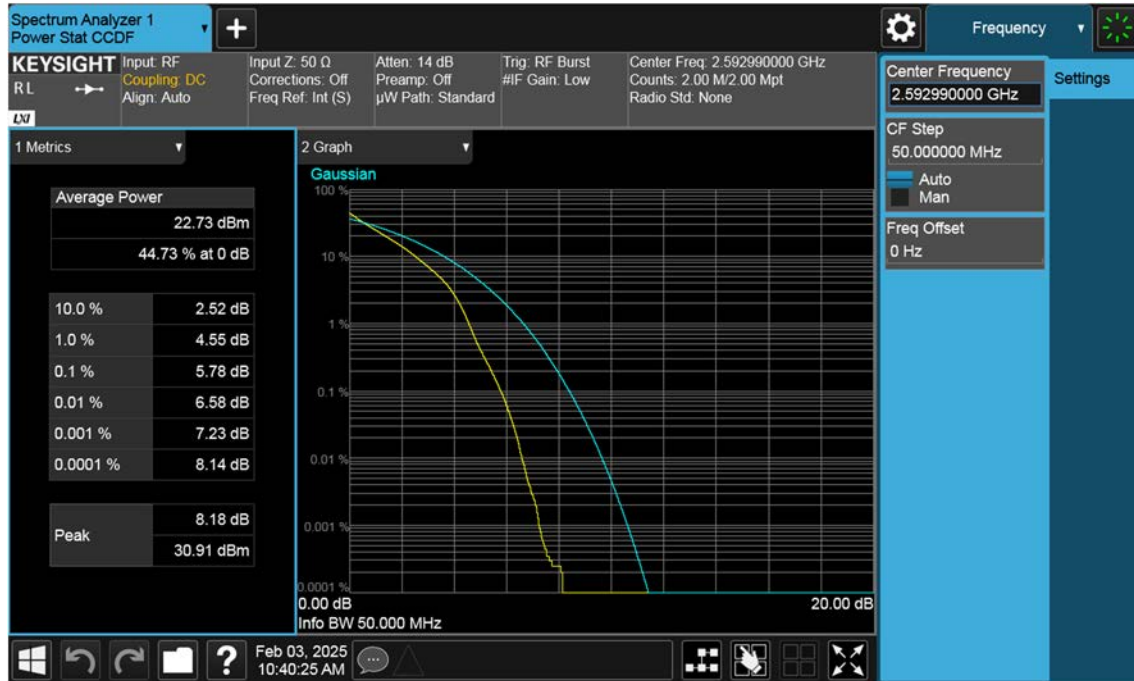
NR41_40 M_PAR_Mid_256QAM_FullRB



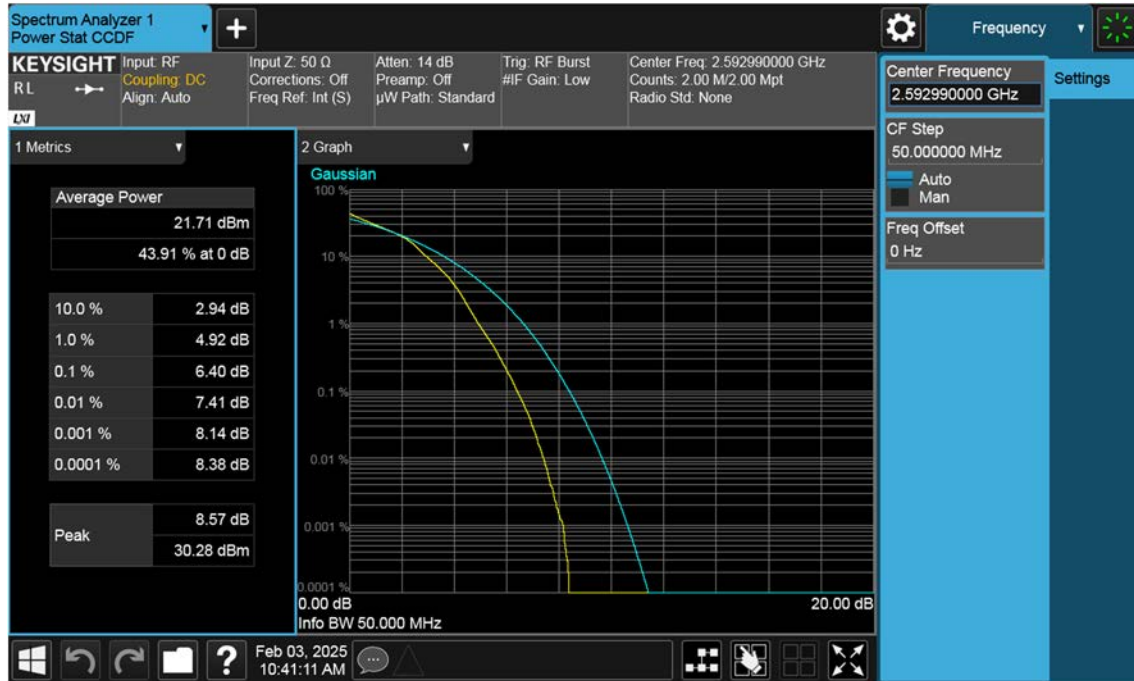
NR41_50 M_PAR_Mid_BPSK_FullRB



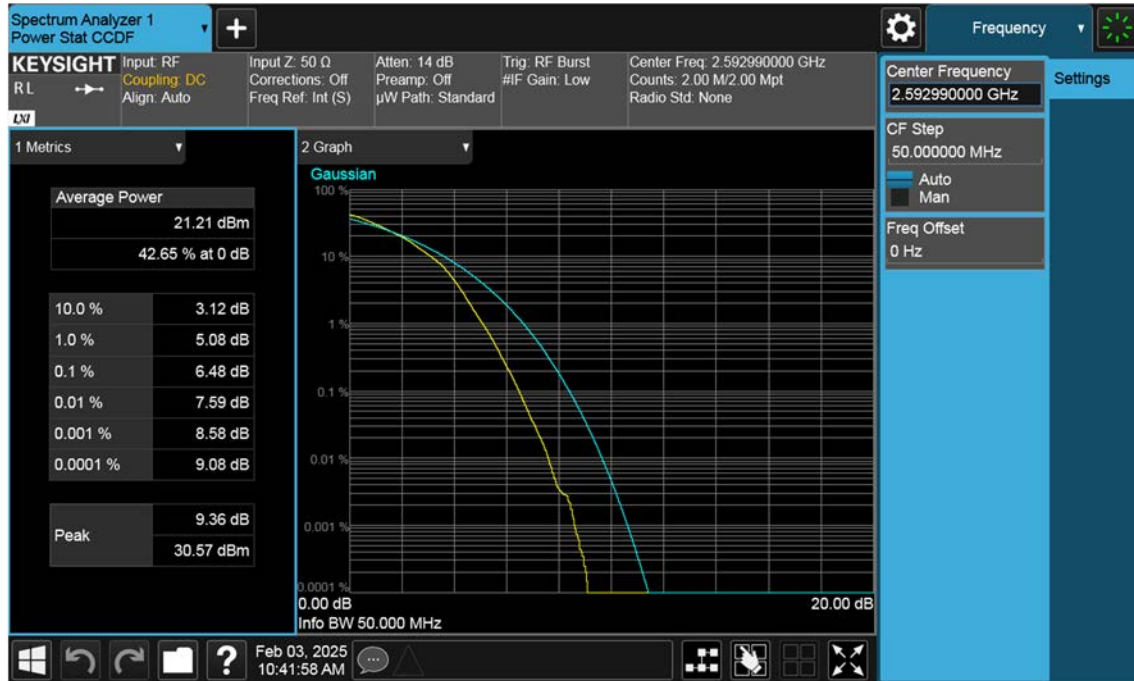
NR41_50 M_PAR_Mid_QPSK_FullRB



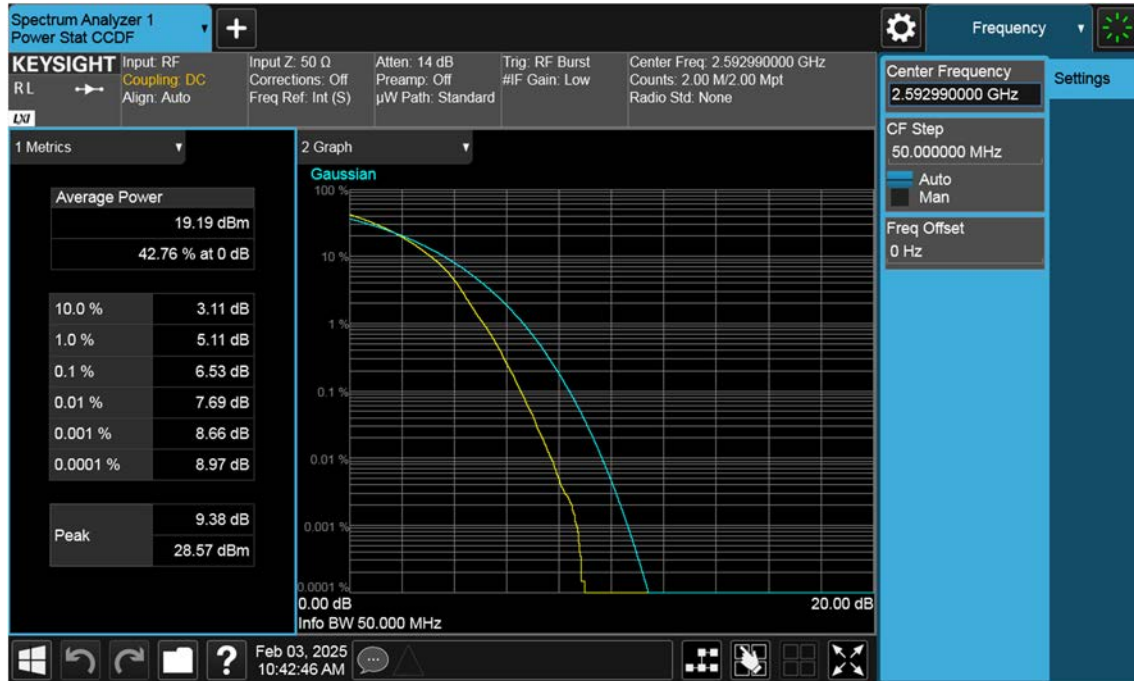
NR41_50 M_PAR_Mid_16QAM_FullRB



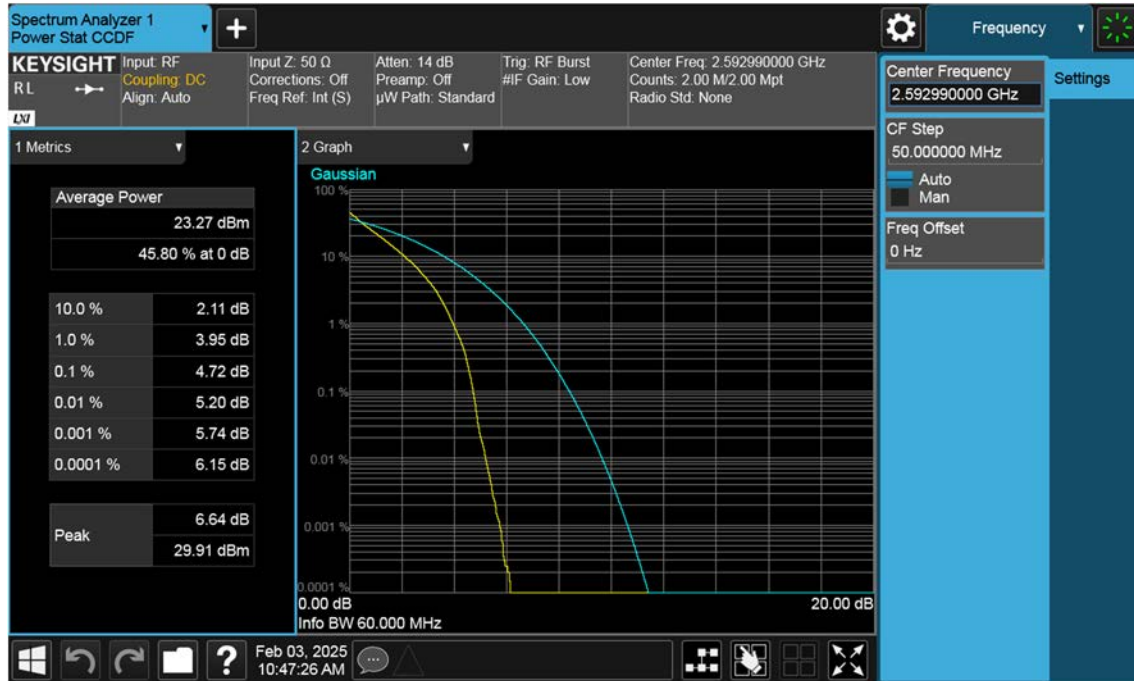
NR41_50 M_PAR_Mid_64QAM_FullRB



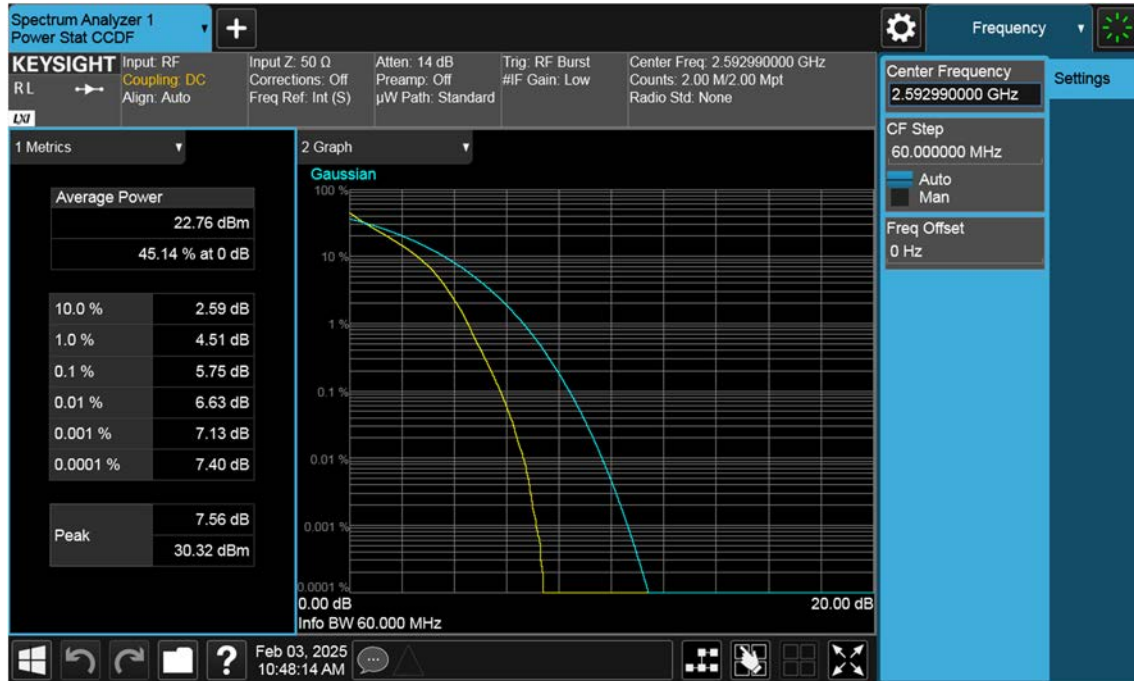
NR41_50 M_PAR_Mid_256QAM_FullRB



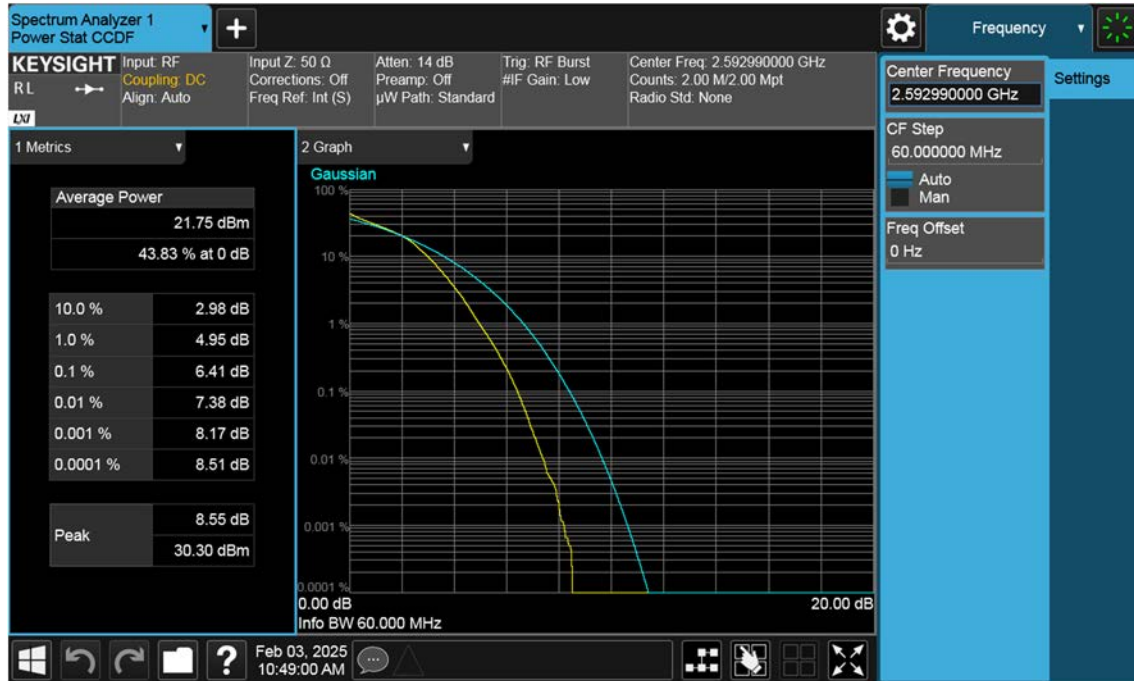
NR41_60 M_PAR_Mid_BPSK_FullRB



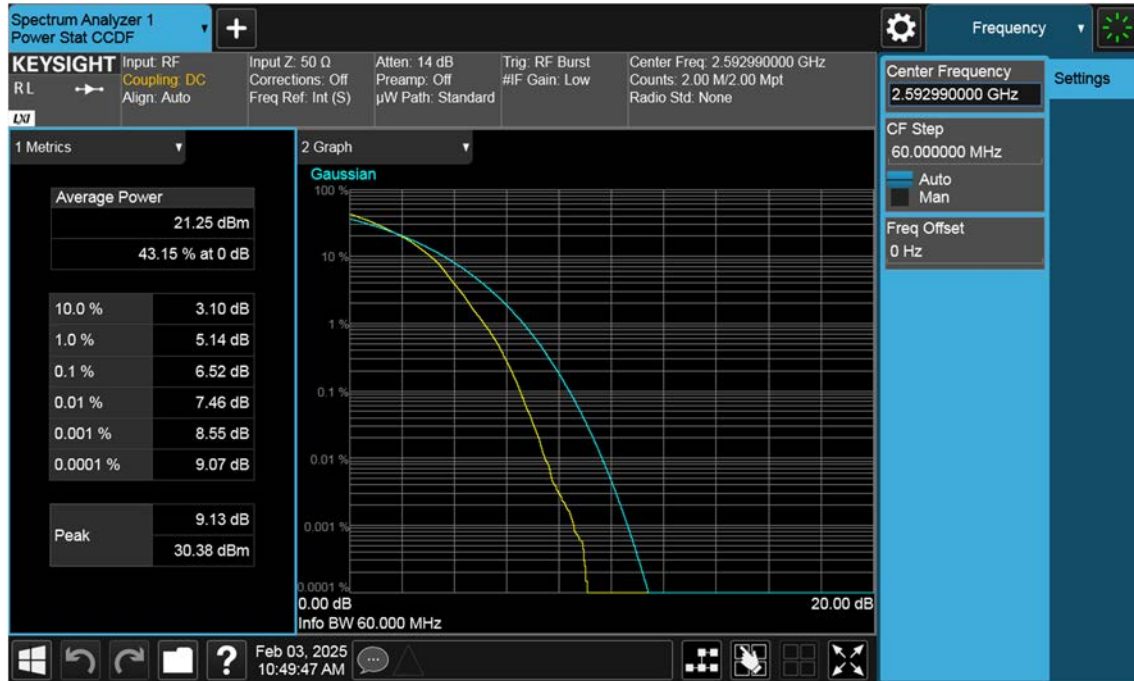
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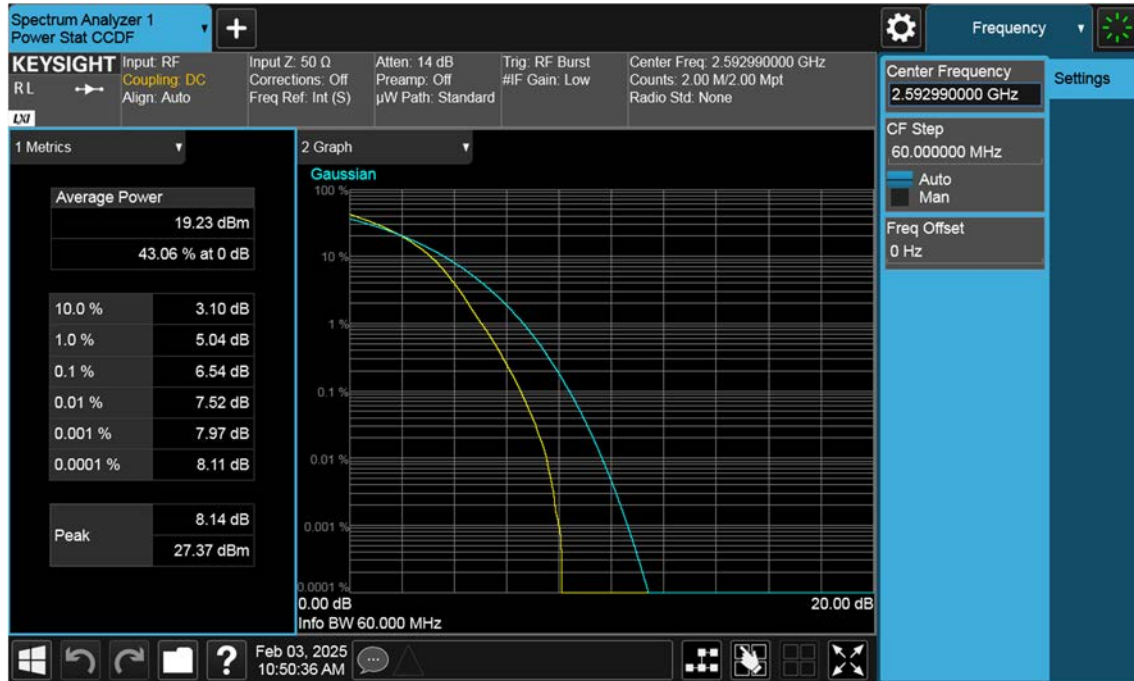
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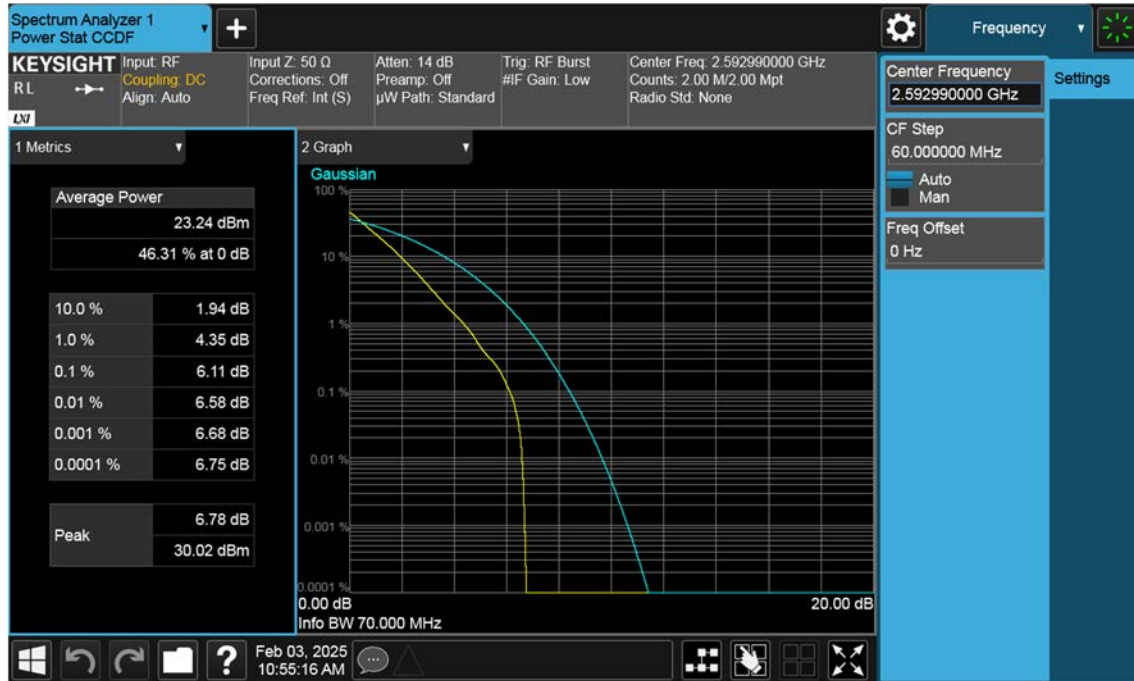
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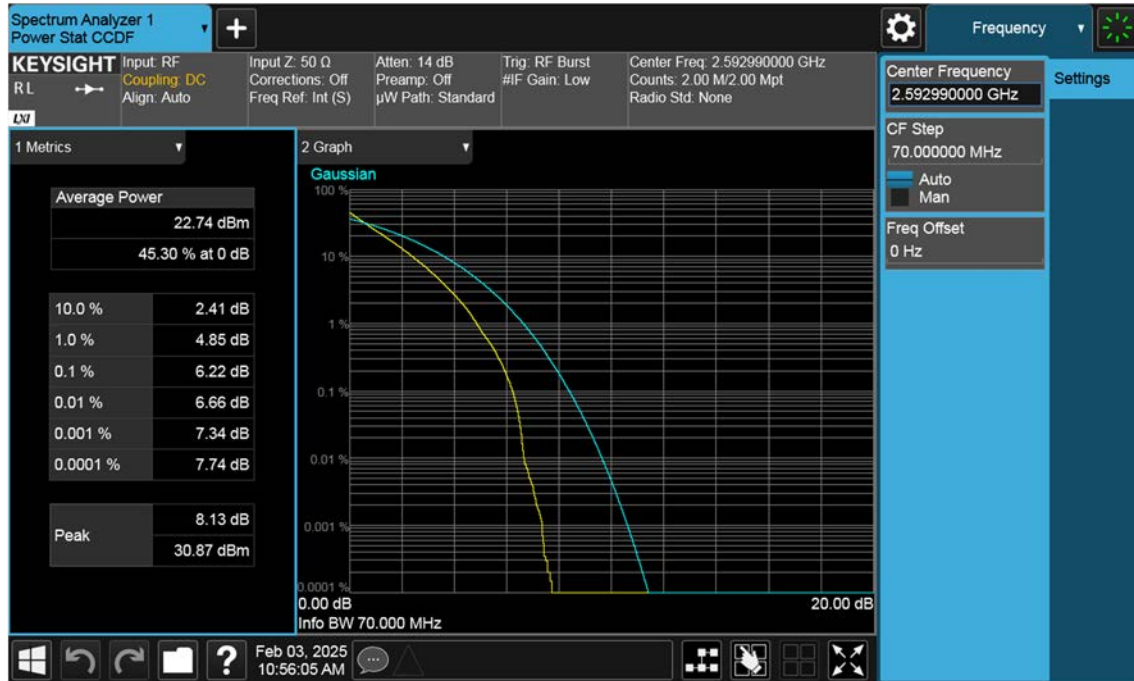
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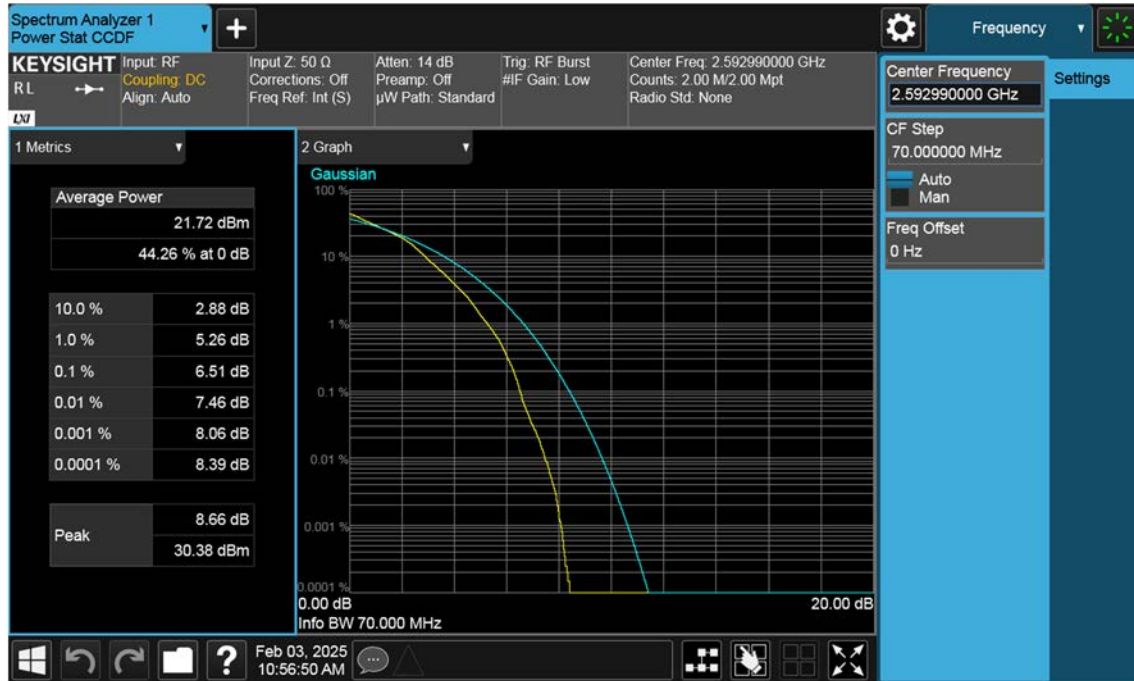
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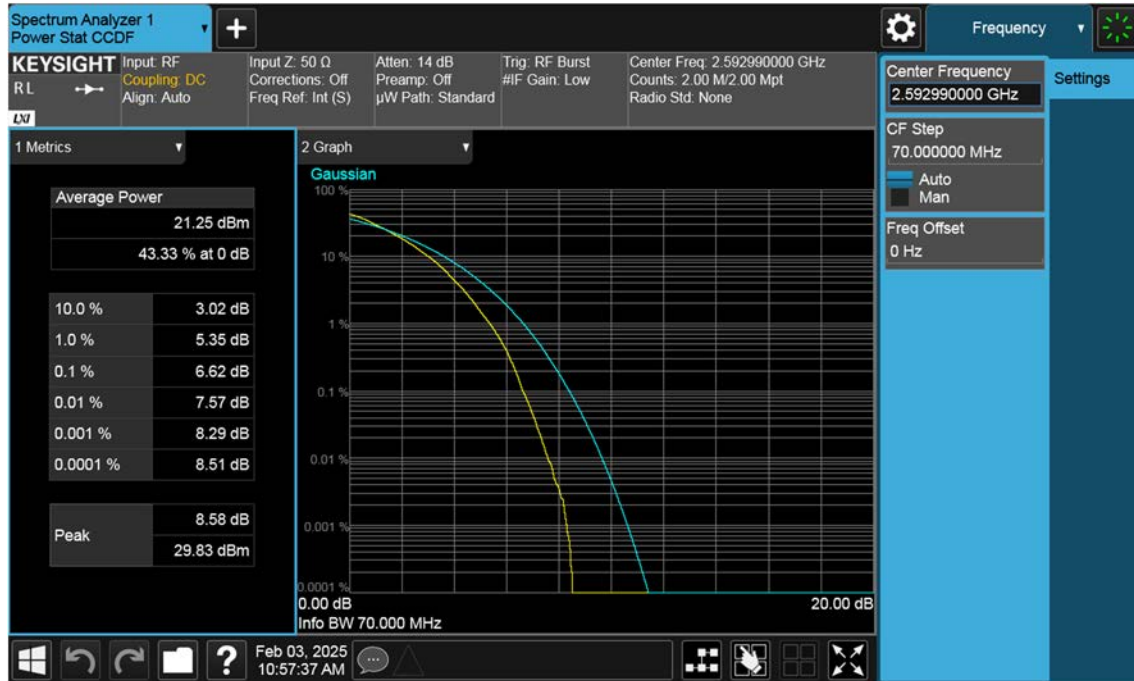
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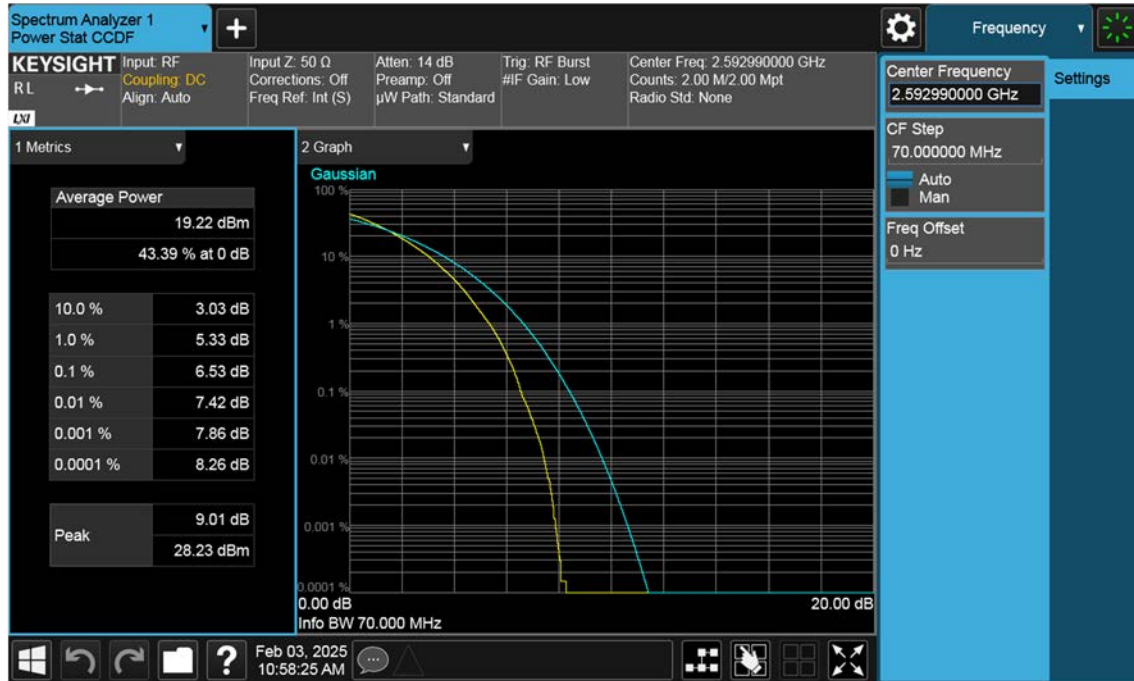
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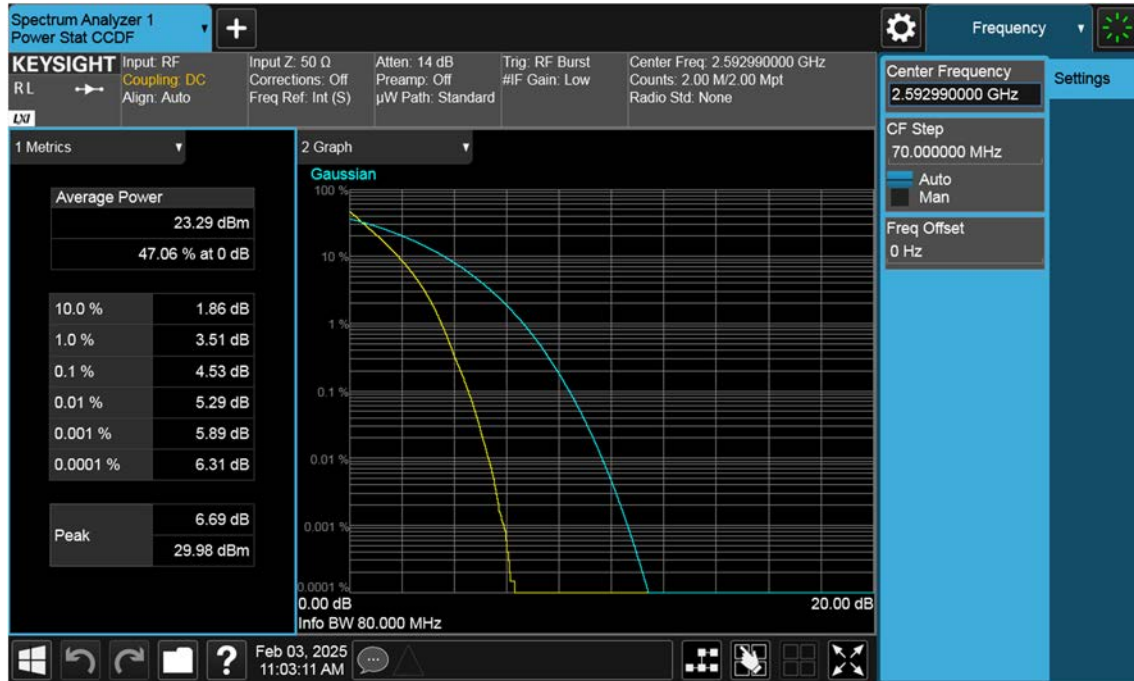
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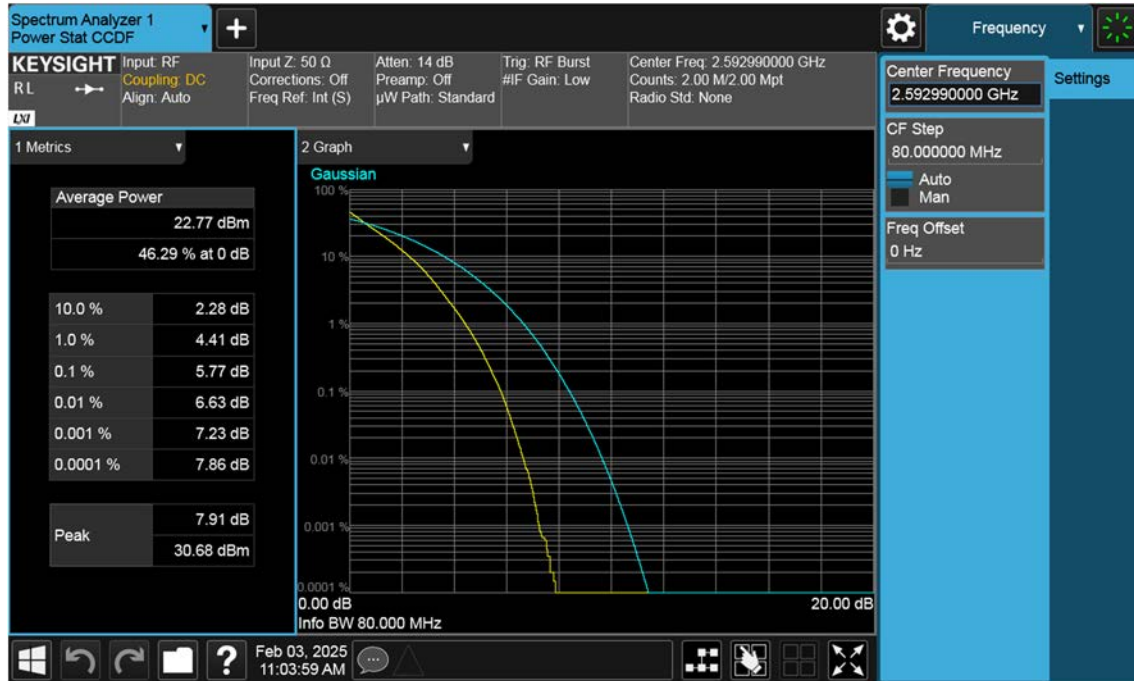
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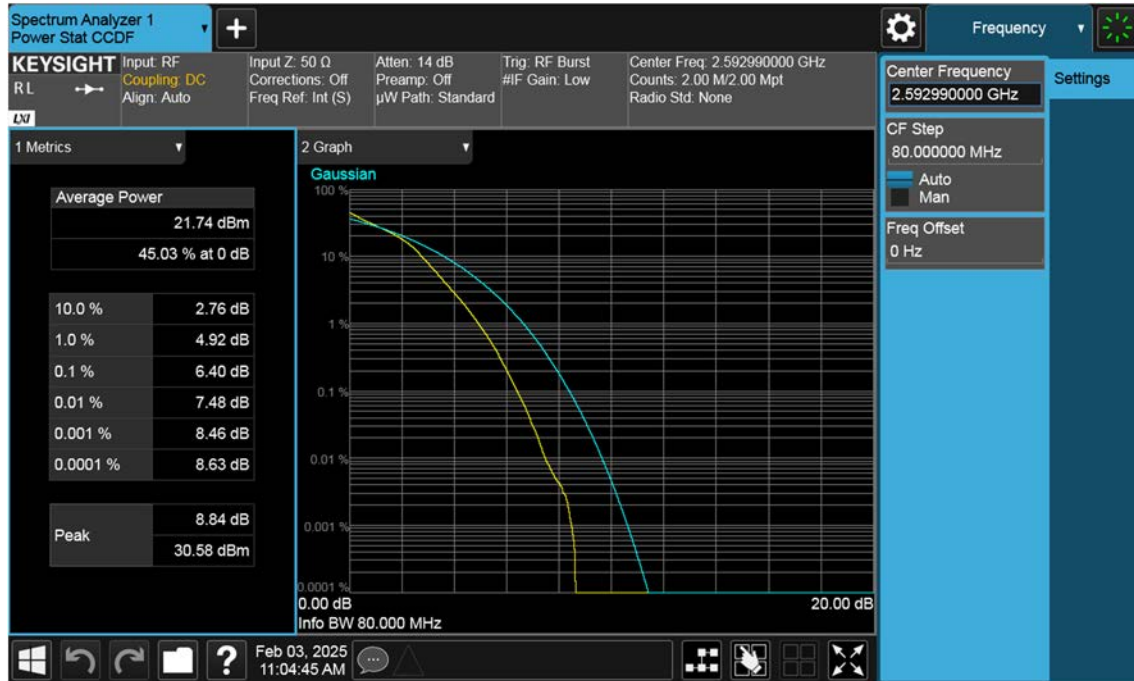
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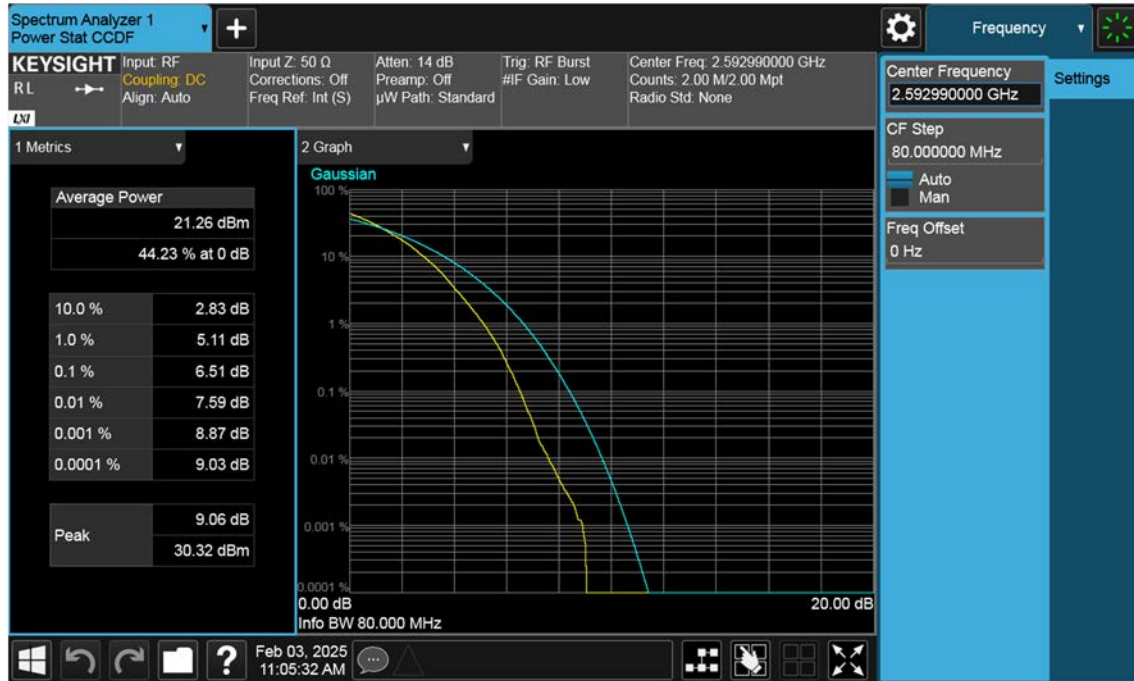
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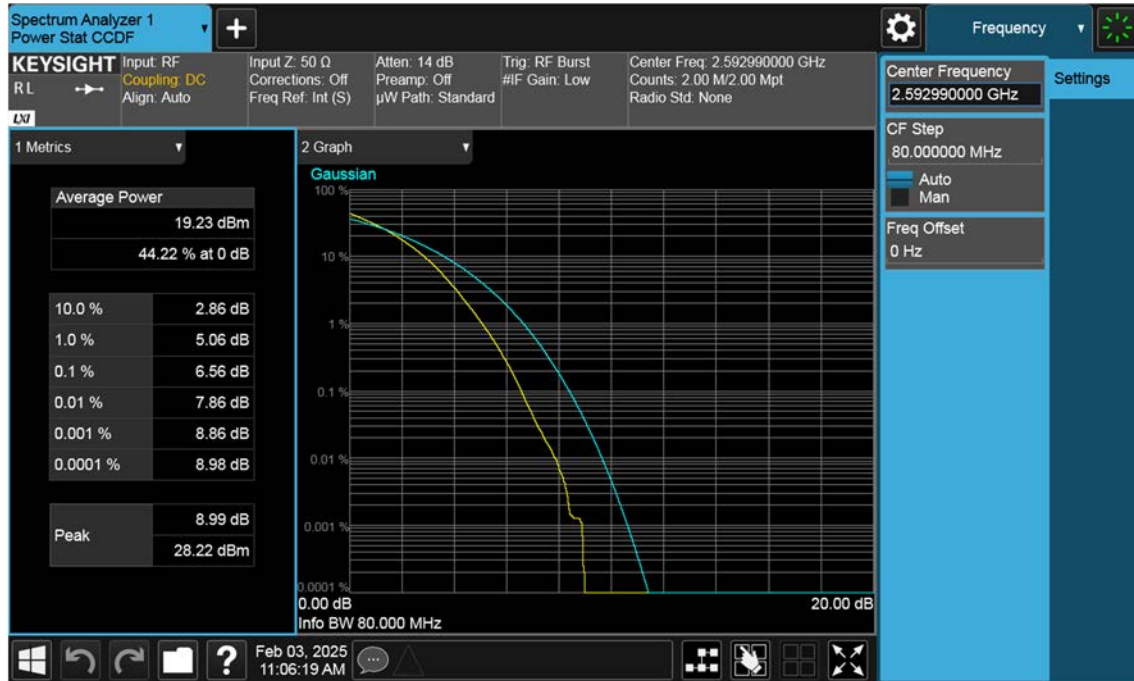
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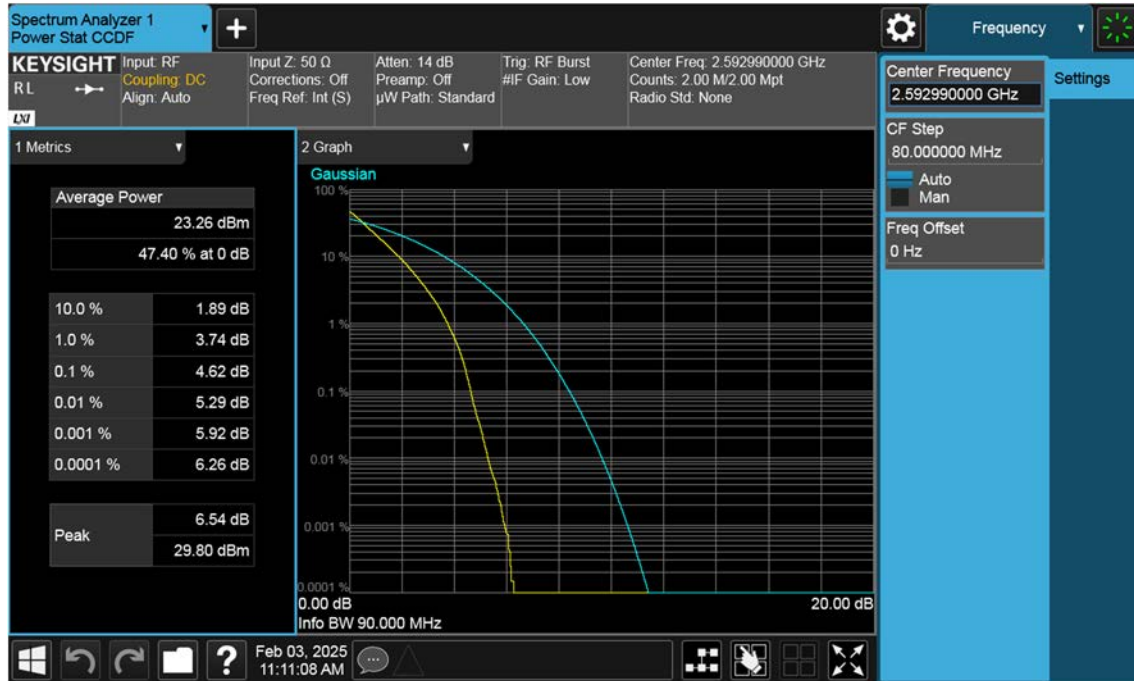
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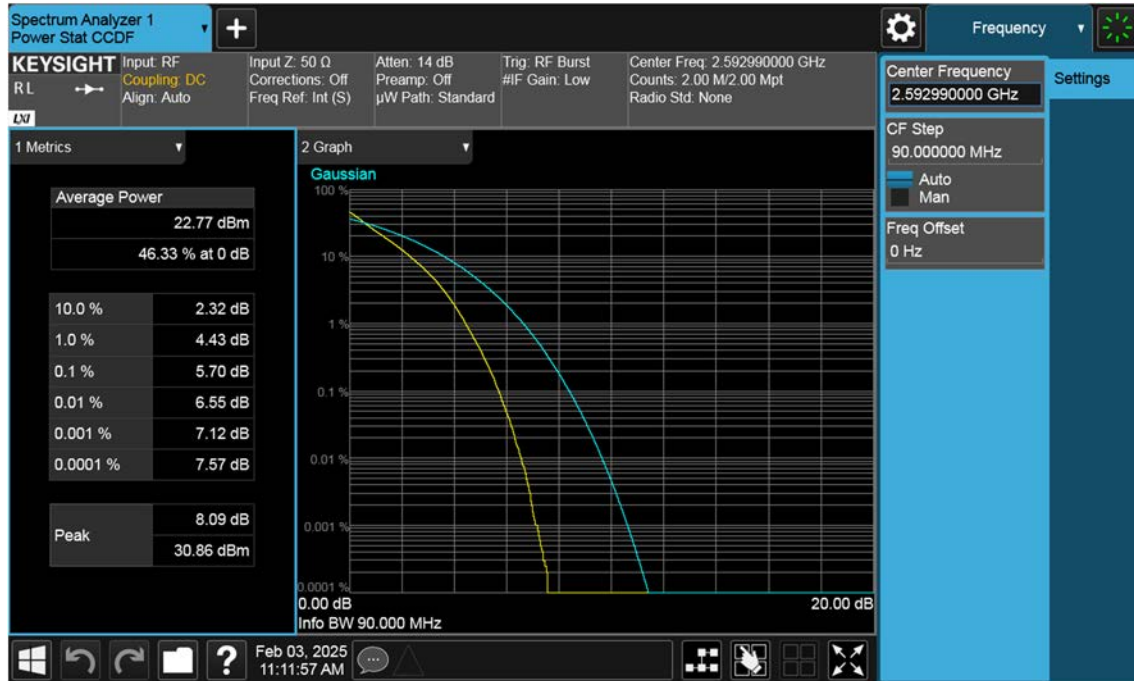
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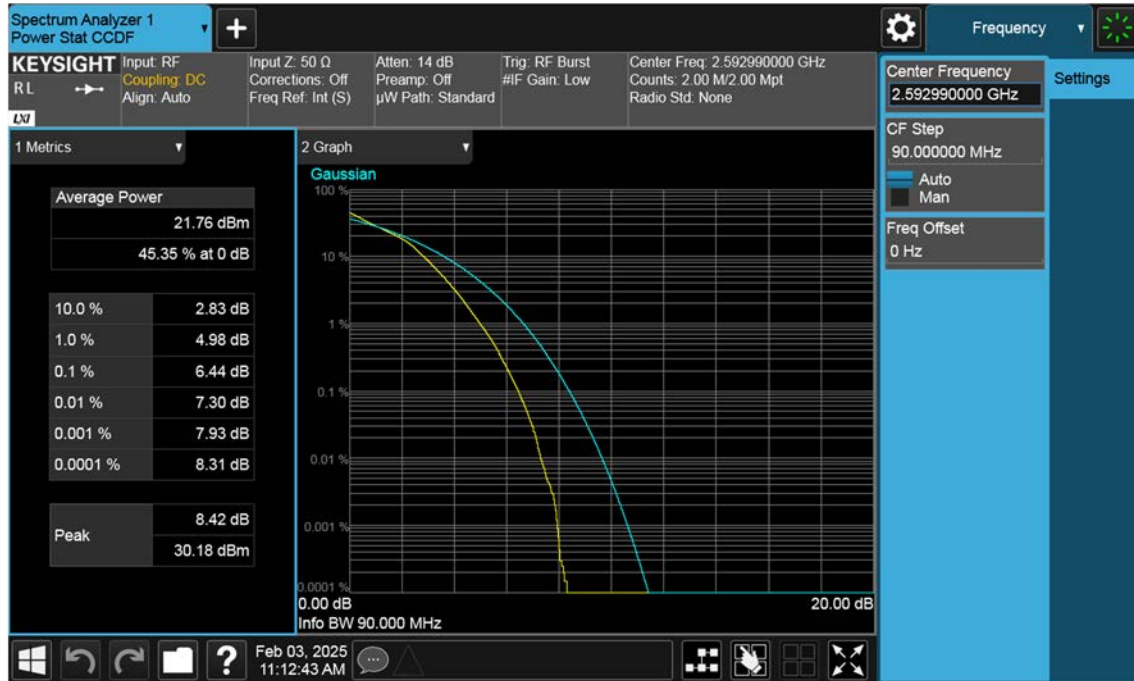
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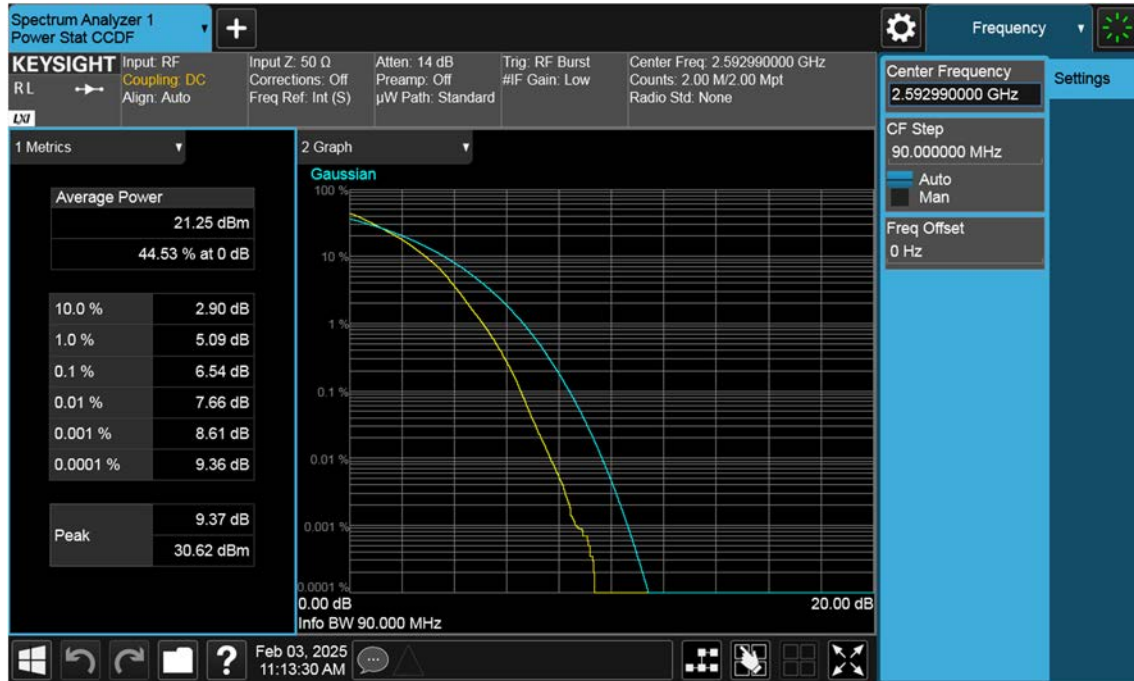
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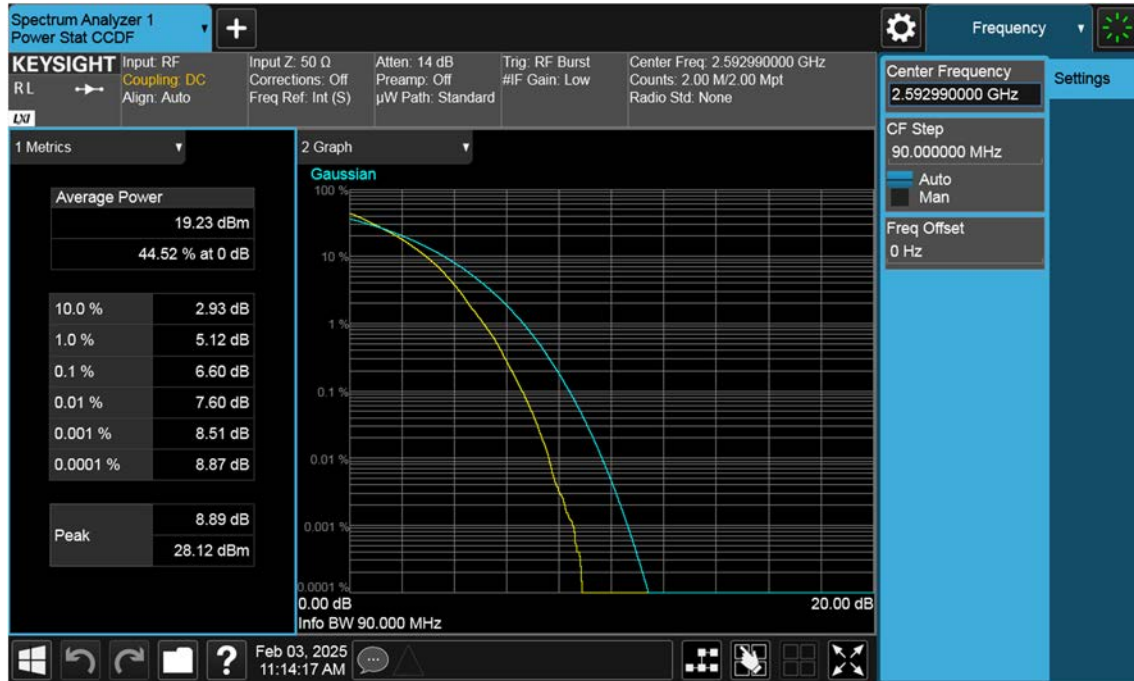
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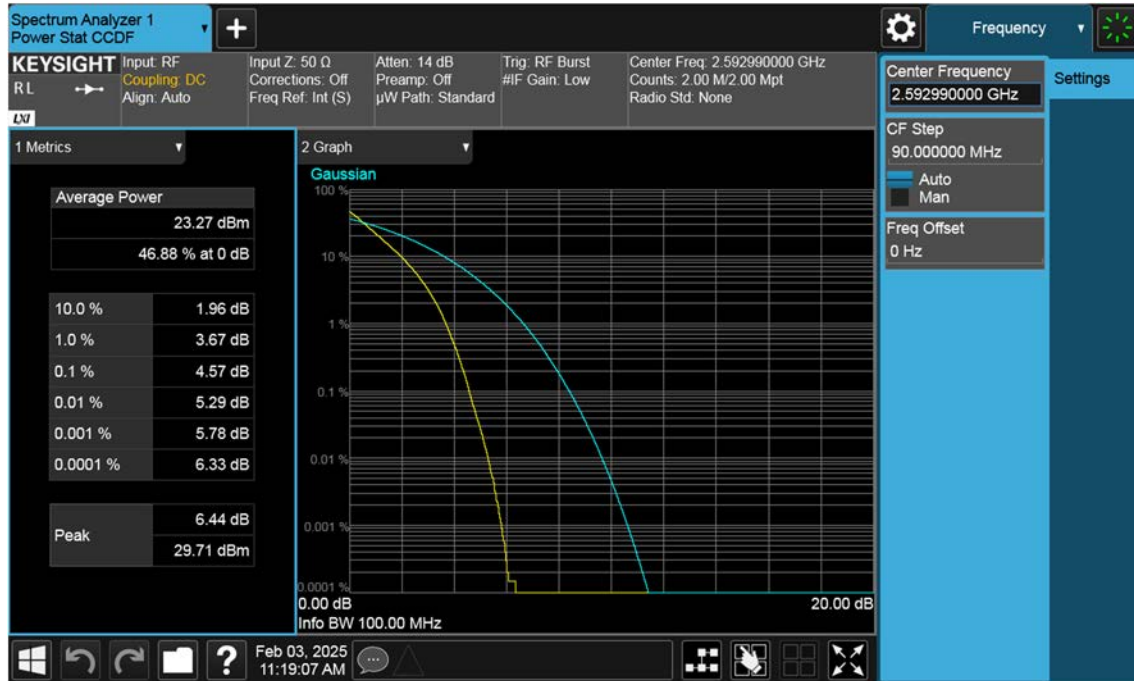
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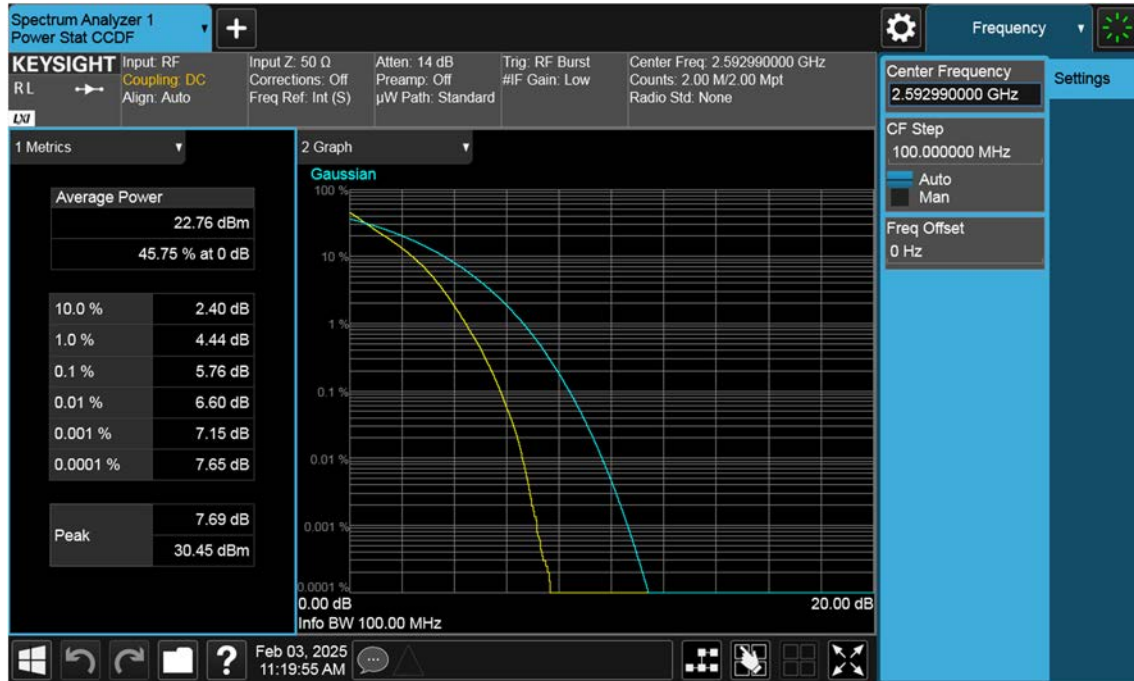
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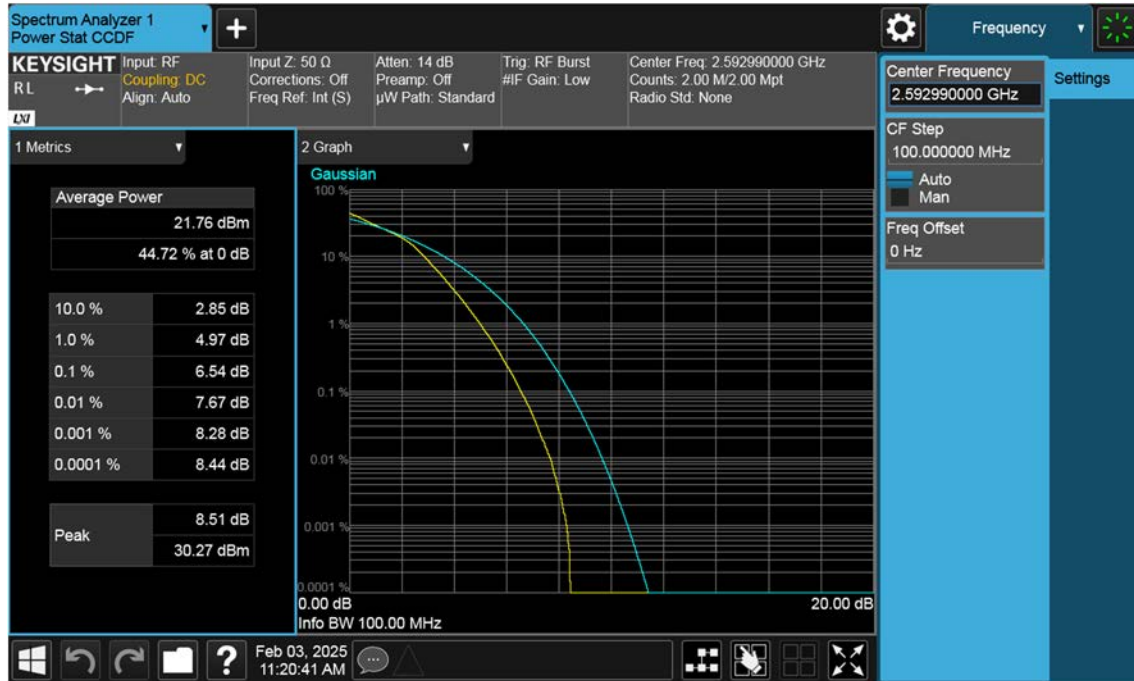
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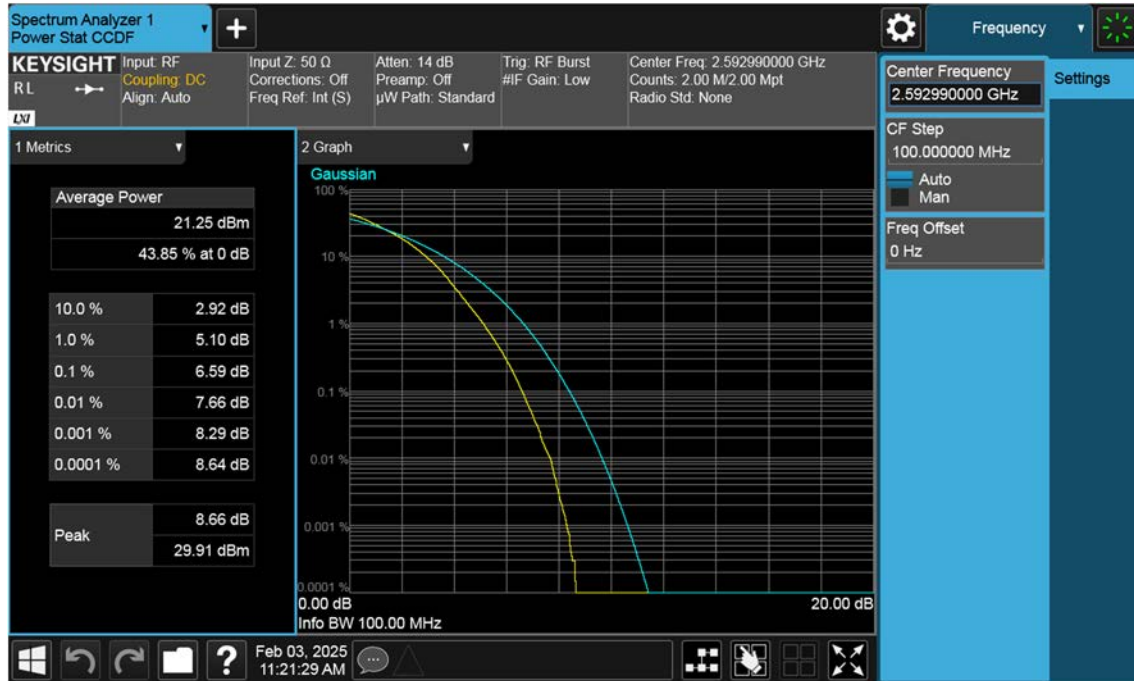
NR41_100 M_PAR_Mid_QPSK_FullRB



NR41_100 M_PAR_Mid_16QAM_FullRB



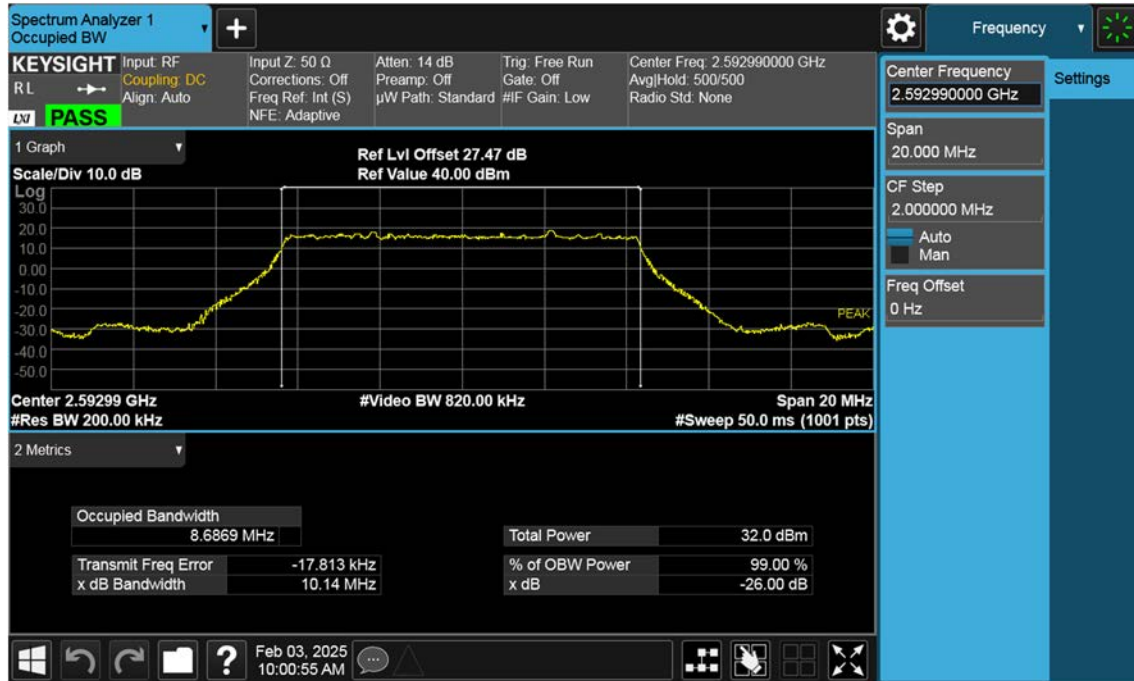
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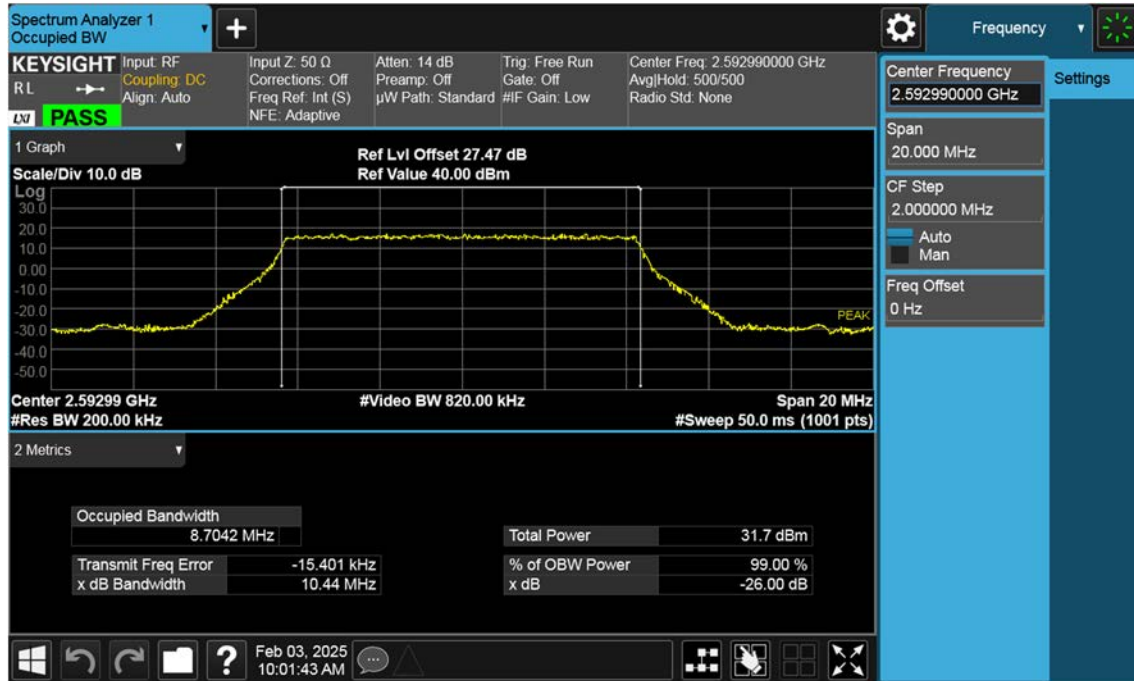
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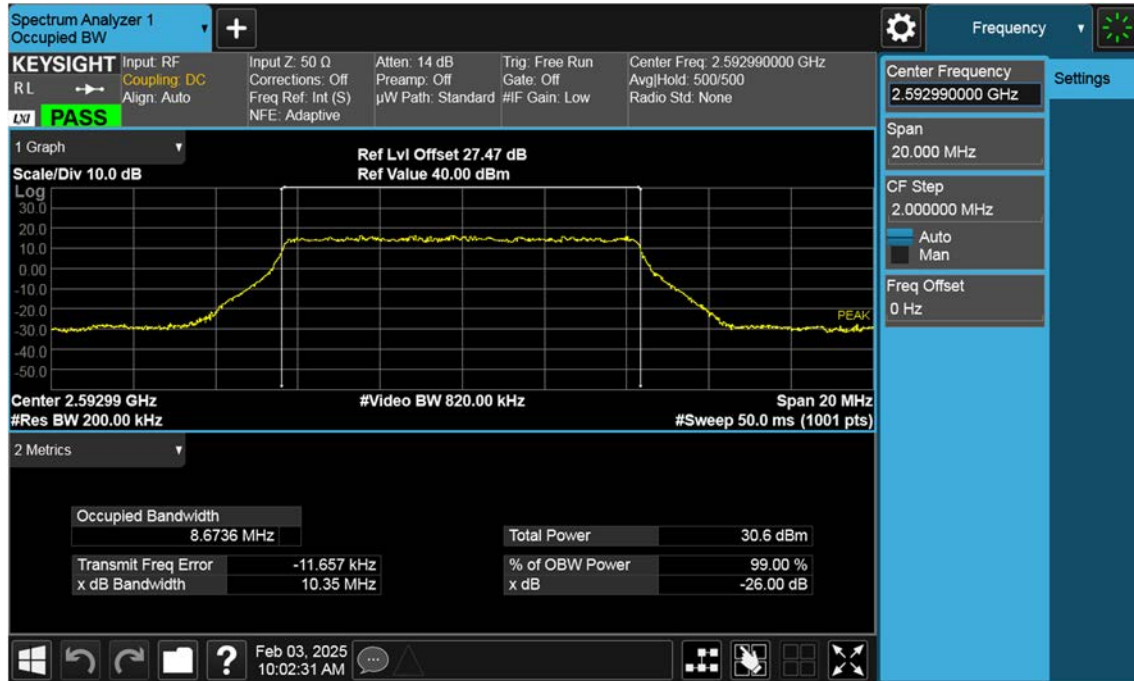
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NR41_10 M_OBW_Mid_QPSK_FullRB



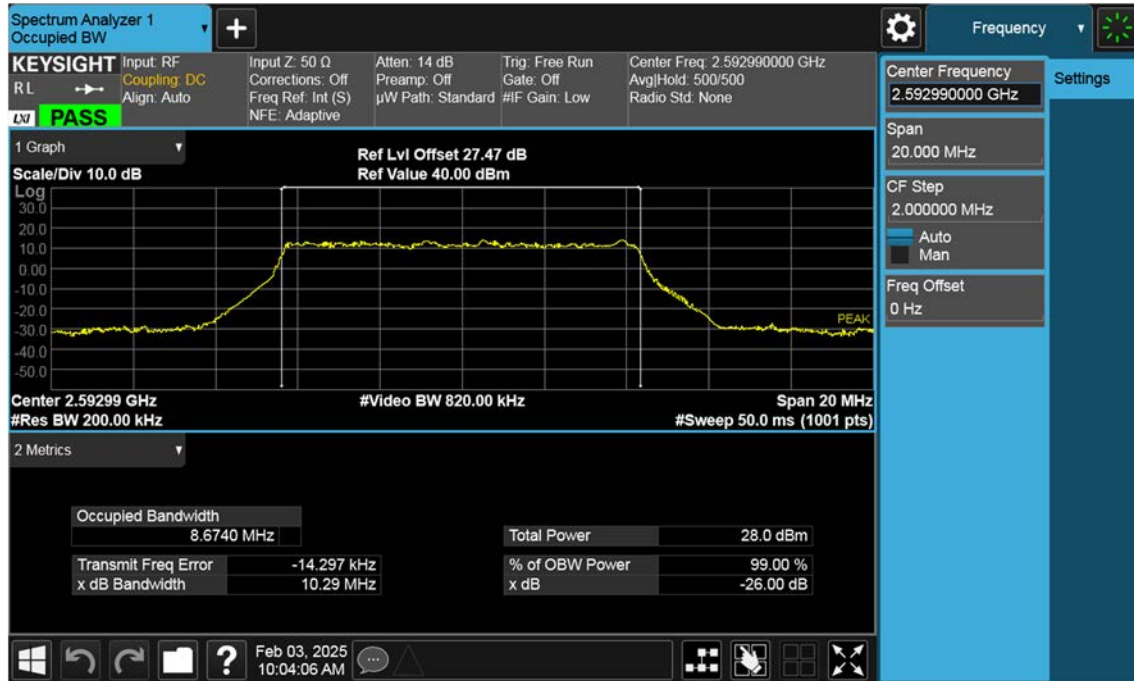
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NR41_10 M_OBW_Mid_64QAM_FullRB



NR41_10 M_OBW_Mid_256QAM_FullRB



NR41_15 M_OBW_Mid_BPSK_FullRB



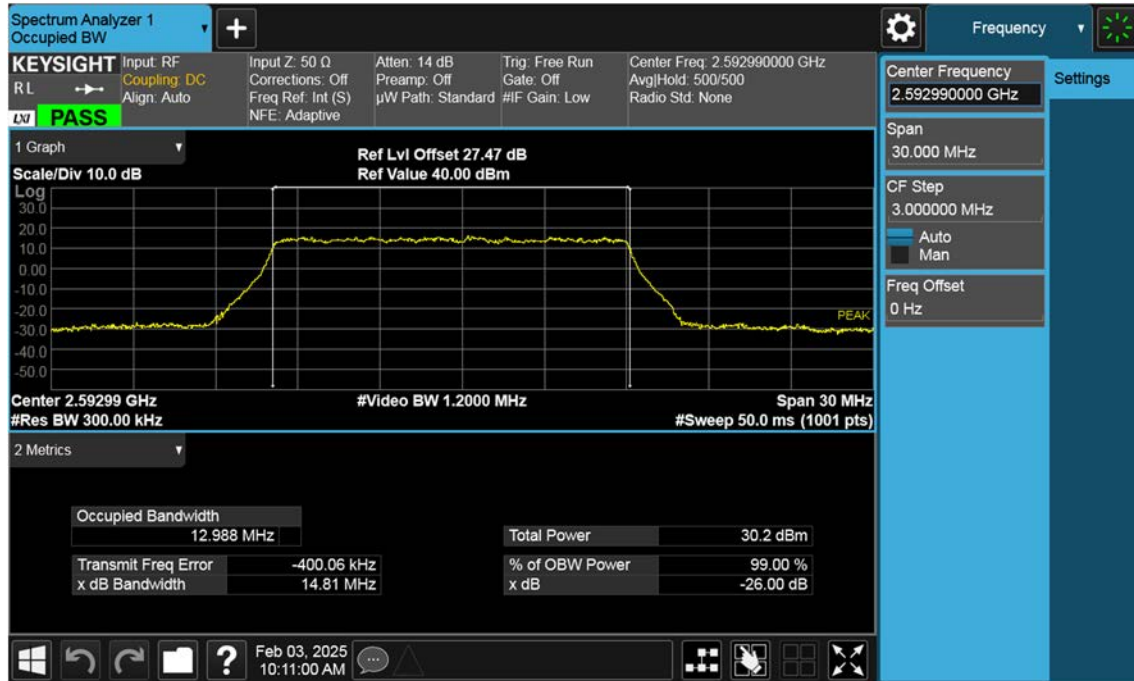
NR41_15 M_OBW_Mid_QPSK_FullRB



NR41_15 M_OBW_Mid_16QAM_FullRB



NR41_15 M_OBW_Mid_64QAM_FullRB



NR41_15 M_OBW_Mid_256QAM_FullRB



NR41_20 M_OBW_Mid_BPSK_FullRB



NR41_20 M_OBW_Mid_QPSK_FullRB



NR41_20 M_OBW_Mid_16QAM_FullRB



NR41_20 M_OBW_Mid_64QAM_FullRB



NR41_20 M_OBW_Mid_256QAM_FullRB

