

n77(3450~3550 MHz)_70 M_Band Edge_Low_BPSK_FullRB(1)



n77(3450~3550 MHz)_70 M_Band Edge_Low_BPSK_1RB(1)



n77(3450~3550 MHz)_70 M_Band Edge_Low_BPSK_FullRB(2)



n77(3450~3550 MHz)_70 M_Band Edge_Low_BPSK_1RB(2)



n77(3450~3550 MHz)_70 M_Band Edge_Low_BPSK_FullRB(3)



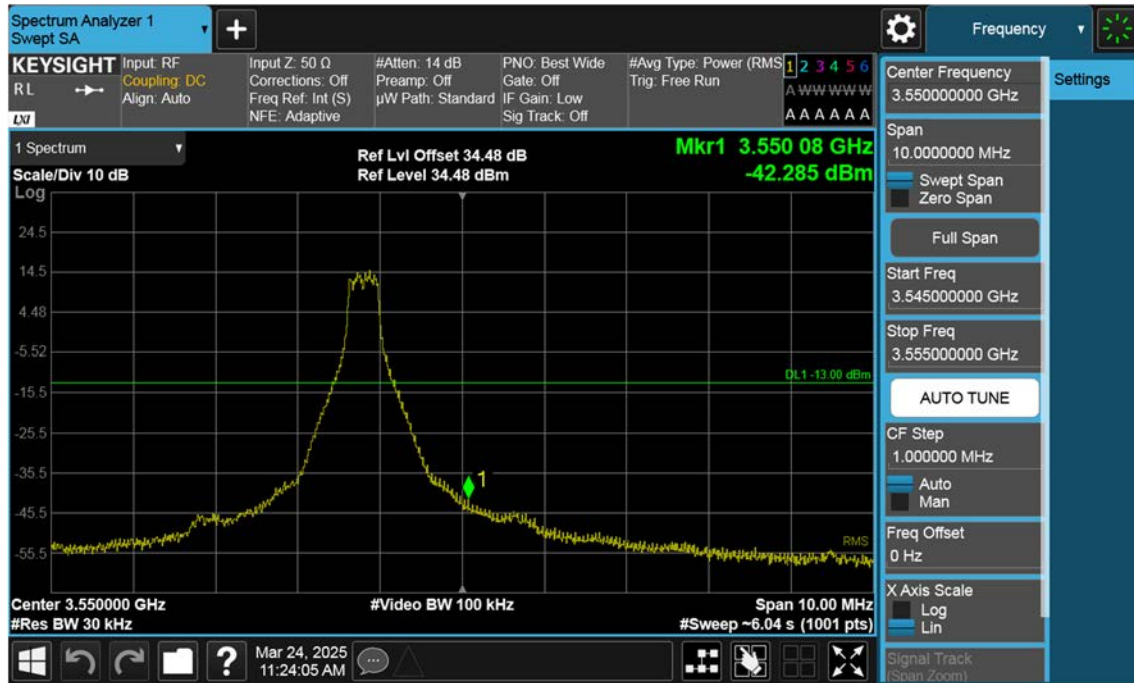
n77(3450~3550 MHz)_70 M_Band Edge_Low_BPSK_1RB(3)



The screenshot displays a Spectrum Analyzer interface with the following components:

- Top Bar:** Spectrum Analyzer 1 Swept SA. A dropdown menu is open showing a plus sign (+).
- Keysight Section:**
 - Input: RF
 - Coupling: DC
 - Align: Auto
 - Input Z: 50 Ω
 - Corrections: Off
 - Freq Ref: Int (S)
 - NFE: Adaptive
 - #Atten: 14 dB
 - Preamp: Off
 - μ W Path: Standard
 - PNO: Best Wide
 - Gate: Off
 - IF Gain: Low
 - Sig Track: Off
 - #Avg Type: Power (RMS)
 - Trig: Free Run
 - Buttons: 1, 2, 3, 4, 5, 6
 - Display: A A W W W W W W
 - Display: A A A A A A
- Main Display:**
 - 1 Spectrum
 - Scale/Div 10 dB
 - Log
 - Ref Lvl Offset 34.48 dB
 - Ref Level 34.48 dBm
 - Mkr1 3.550 37 GHz
 - 33.046 dBm
 - DL1 -13.00 dBm
 - RMS
 - Center 3.550000 GHz
 - #Video BW 1.0 MHz
 - Span 10.00 MHz
 - #Sweep ~6.04 s (1001 pts)
- Right Panel:**
 - Settings
 - Center Frequency: 3.550000000 GHz
 - Span: 10.0000000 MHz
 - Swept Span
 - Zero Span
 - Full Span
 - Start Freq: 3.545000000 GHz
 - Stop Freq: 3.555000000 GHz
 - AUTO TUNE
 - CF Step: 1.000000 MHz
 - Auto
 - Man
 - Freq Offset: 0 Hz
 - X Axis Scale: Log
 - Lin
 - Signal Track (Span Zoom)

n77(3450~3550 MHz)_70 M_Band Edge_High_BPSK_1RB(1)



n77(3450~3550 MHz)_70 M_Band Edge_High_BPSK_FullRB(2)



n77(3450~3550 MHz)_70 M_Band Edge_High_BPSK_1RB(2)



The screenshot displays a Spectrum Analyzer interface with the following components:

- Top Bar:** Includes a "Spectrum Analyzer 1" title, a "Swept SA" mode indicator, and a "+" button.
- Input/Configuration Section:**
 - Input: RF
 - Coupling: DC
 - Align: Auto
 - Input Z: 50 Ω
 - Corrections: Off
 - Freq Ref: Int (S)
 - NFE: Adaptive
 - #Atten: 14 dB
 - Preamp: Off
 - μ W Path: Standard
 - PNO: Fast
 - Gate: Off
 - IF Gain: Low
 - Sig Track: Off
 - #Avg Type: Power (RMS)
 - Trig: Free Run
- Frequency Section:**
 - Center Frequency: 3.61250000 GHz
 - Span: 115.000000 MHz
 - Start Freq: 3.55000000 GHz
 - Stop Freq: 3.67000000 GHz
 - Full Span button
- Marker Section:**
 - Mkr1: 3.558 80 GHz
 - 29.415 dBm
 - DL1: -13.00 dBm
- Display Section:**
 - Scale/Div: 10 dB
 - Log
 - Ref Lvl Offset: 34.48 dB
 - Ref Level: 34.48 dBm
 - Video BW: 3.0 MHz
 - #Sweep: 6.00 s (1001 pts)
- Bottom Bar:** Includes a Windows taskbar with the date and time: Mar 24, 2025, 11:23:30 AM.

n77(3450~3550 MHz)_70 M_Band Edge_High_BPSK_1RB(3)



n77(3450~3550 MHz)_80 M_Band Edge_Low_BPSK_FullRB(1)



n77(3450~3550 MHz)_80 M_Band Edge_Low_BPSK_1RB(1)



n77(3450~3550 MHz)_80 M_Band Edge_Low_BPSK_FullRB(2)



n77(3450~3550 MHz)_80 M_Band Edge_Low_BPSK_1RB(2)



n77(3450~3550 MHz)_80 M_Band Edge_Low_BPSK_FullRB(3)



Keysight Spectrum Analyzer 1
 Swept SA

Input RF
 Coupling: DC
 Align: Auto

Input Z: 50 Ω
 Corrections: Off
 Freq Ref: Int (S)
 NFE: Adaptive

#Atten: 14 dB
 Preamp: Off
 μW Path: Standard

PNO: Fast
 Gate: Off
 IF Gain: Low
 Sig Track: Off

#Avg Type: Power (RMS)
 Trig: Free Run

Center Frequency
 3.347500000 GHz

Span
 195.000000 MHz

Start Freq
 3.250000000 GHz

Stop Freq
 3.445000000 GHz

Ref Lvl Offset 34.48 dB
 Ref Level 34.48 dBm

Mkr1 3.412 045 GHz
 -21.951 dBm

DL1 -13.00 dBm

Start 3.25000 GHz
 #Res BW 1.0 MHz

#Video BW 3.0 MHz

Stop 3.44500 GHz
 #Sweep 6.00 s (1001 pts)

Full Span

AUTO TUNE

CF Step
 19.500000 MHz

Freq Offset
 0 Hz

X Axis Scale
 Log

Signal Trace
 (Spectrum)

The screenshot displays a Spectrum Analyzer interface. At the top, the title bar reads "Spectrum Analyzer 1" and "Swept SA". Below this, the "KEYSIGHT" logo is visible. The main display area shows a spectrum plot with a yellow trace. A peak is labeled "1" and has a green diamond marker. The peak's frequency is 3.550000 GHz and its power is -35.728 dBm. The plot has a scale of 10 dB and a resolution bandwidth of 200 kHz. The center frequency is 3.550000 GHz. The plot shows a signal that drops sharply from -5.2 dBm to -35.7 dBm. The interface includes various control panels on the right for settings like Center Frequency, Span, and Auto Tune. The bottom status bar shows the date and time as Mar 24, 2025 11:53:03 AM.

Top Panel:

- Input: RF
- Input Z: 50 Ω
- Attenuation: 14 dB
- PNO: Best Wide
- #Avg Type: Power (RMS)
- Trig: Free Run

Left Panel:

- RL
- Coupling: DC
- Align: Auto
- Corrections: Off
- Freq Ref: Int (S)
- NFE: Adaptive
- Preamp: Off
- μ W Path: Standard
- IF Gain: Low
- Sig Track: Off

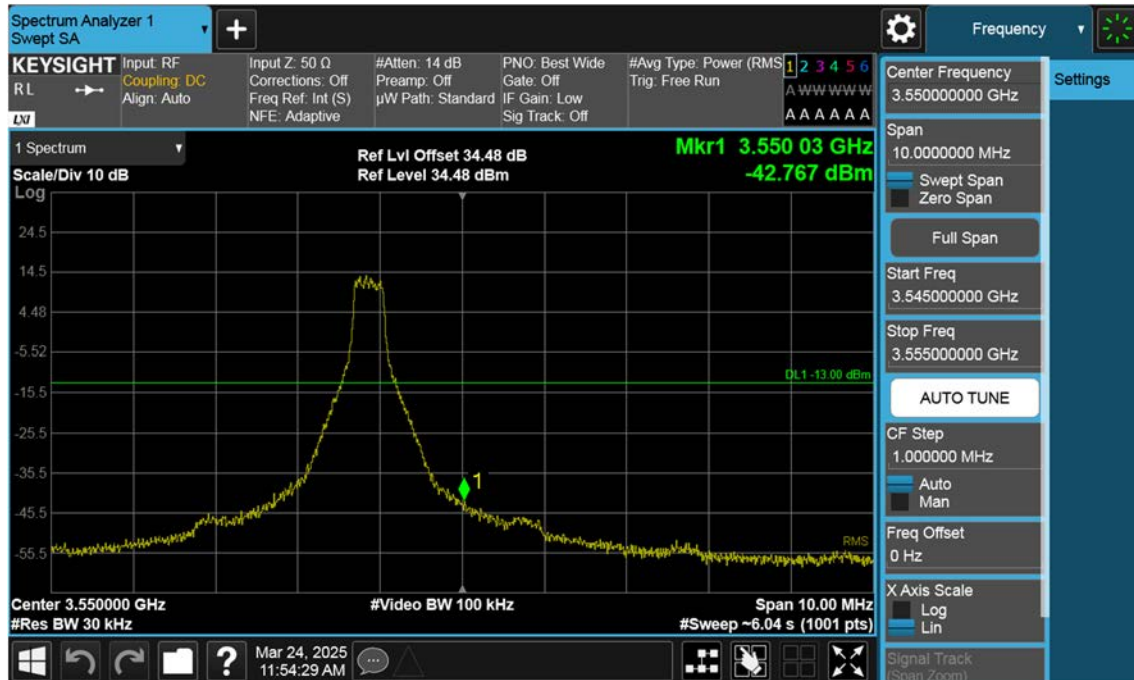
Right Panel:

- Center Frequency: 3.55000000 GHz
- Span: 10.000000 MHz
- Swept Span
- Zero Span
- Full Span
- Start Freq: 3.54500000 GHz
- Stop Freq: 3.55500000 GHz
- AUTO TUNE
- CF Step: 1.000000 MHz
- Auto
- Man
- Freq Offset: 0 Hz
- X Axis Scale: Log
- Lin
- Signal Track (Sigs, Z, rms)

Bottom Panel:

- Center: 3.550000 GHz
- #Res BW 200 kHz
- #Video BW 1.0 MHz
- Span 10.00 MHz
- #Sweep ~6.04 s (1001 pts)

n77(3450~3550 MHz)_80 M_Band Edge_High_BPSK_1RB(1)



n77(3450~3550 MHz)_80 M_Band Edge_High_BPSK_FullRB(2)



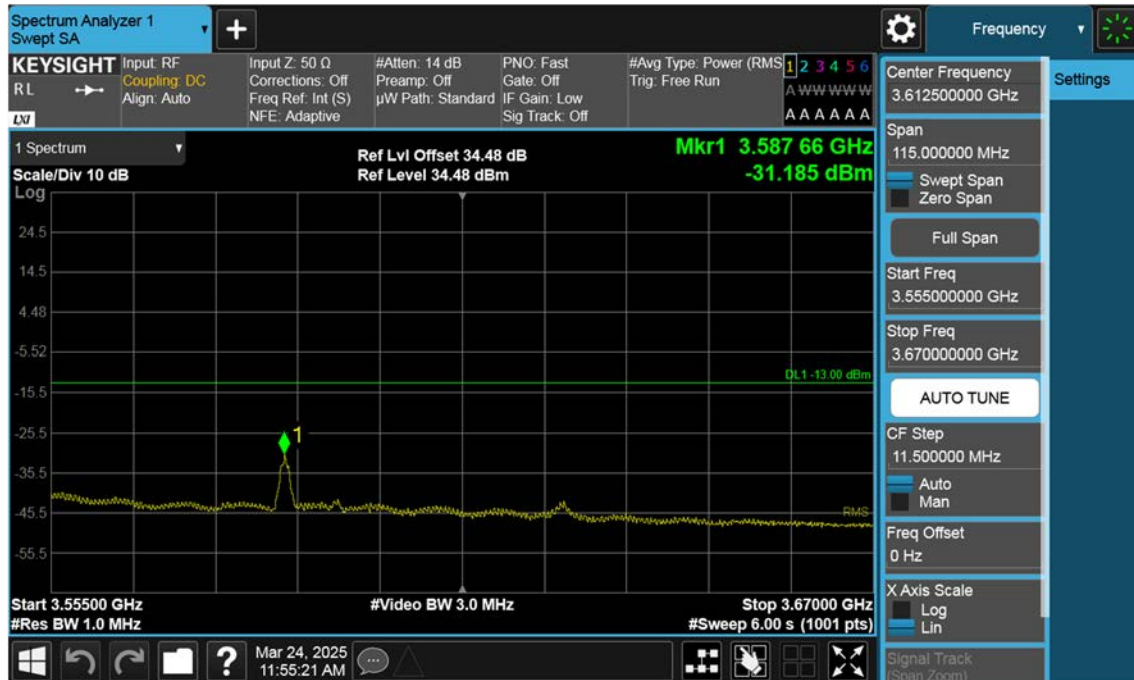
n77(3450~3550 MHz)_80 M_Band Edge_High_BPSK_1RB(2)



n77(3450~3550 MHz)_80 M_Band Edge_High_BPSK_FullRB(3)



n77(3450~3550 MHz)_80 M_Band Edge_High_BPSK_1RB(3)



n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_FullRB(1)



n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_1RB(1)



n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_FullRB(2)



n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_1RB(2)



n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_FullRB(3)



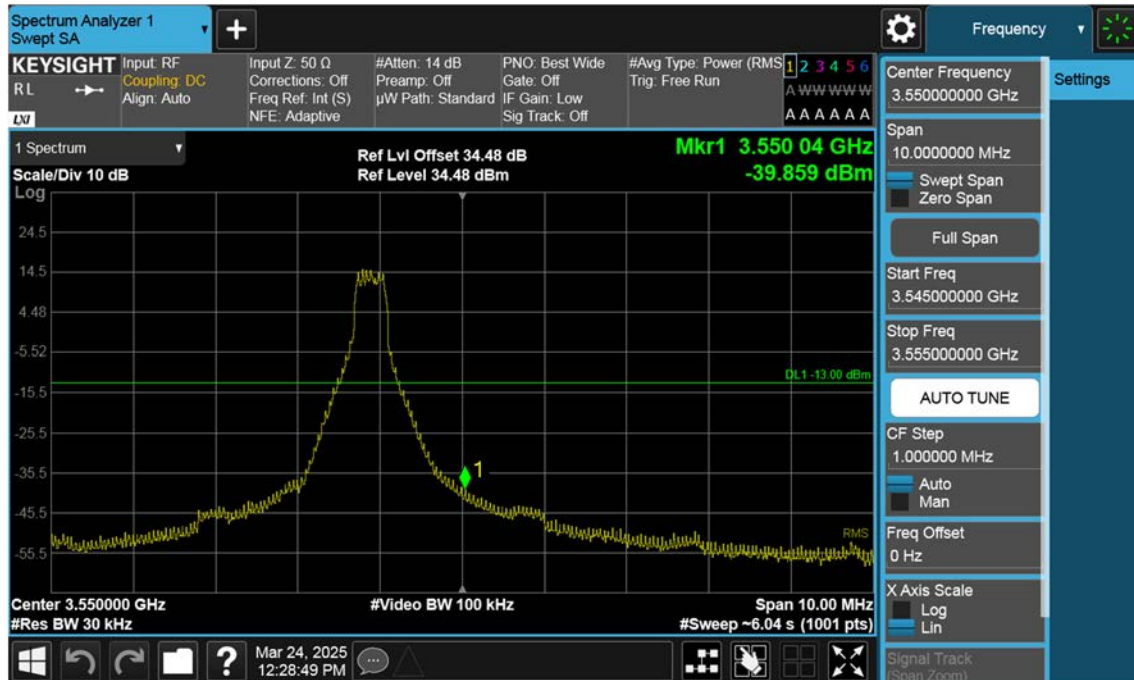
n77(3450~3550 MHz)_90 M_Band Edge_Low_BPSK_1RB(3)



n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_FullRB(1)



n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_1RB(1)



n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_FullRB(2)



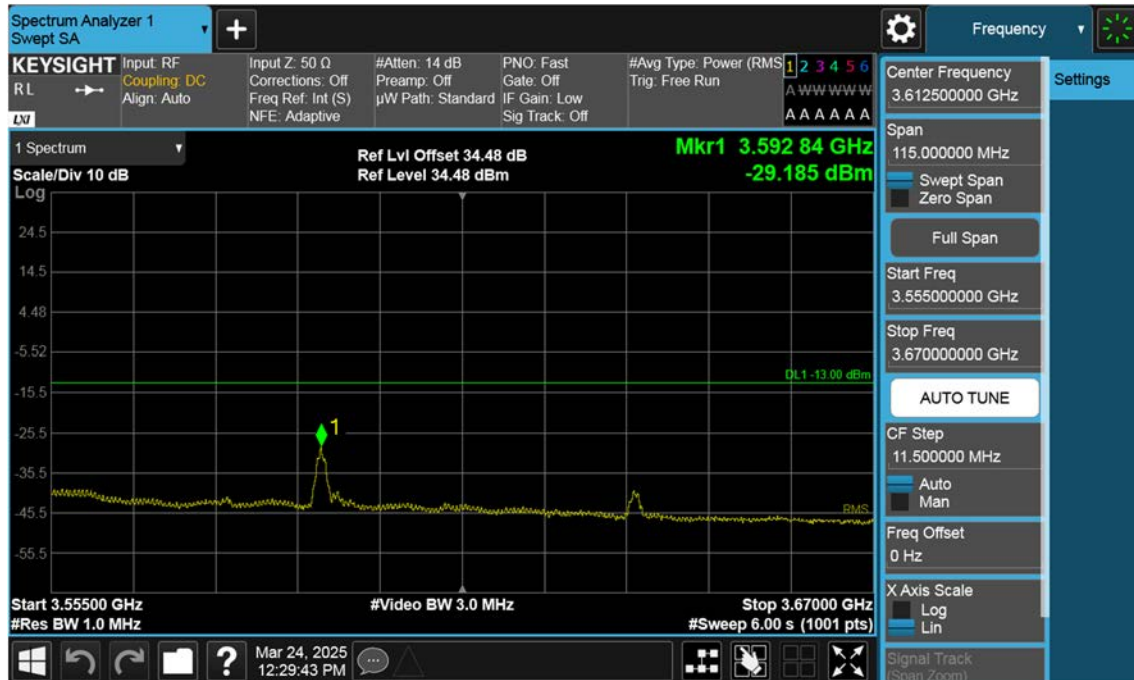
n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_1RB(2)



n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_FullRB(3)



n77(3450~3550 MHz)_90 M_Band Edge_High_BPSK_1RB(3)



n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_FullRB(1)



n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_1RB(1)



n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_FullRB(2)



n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_1RB(2)



n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_FullRB(3)



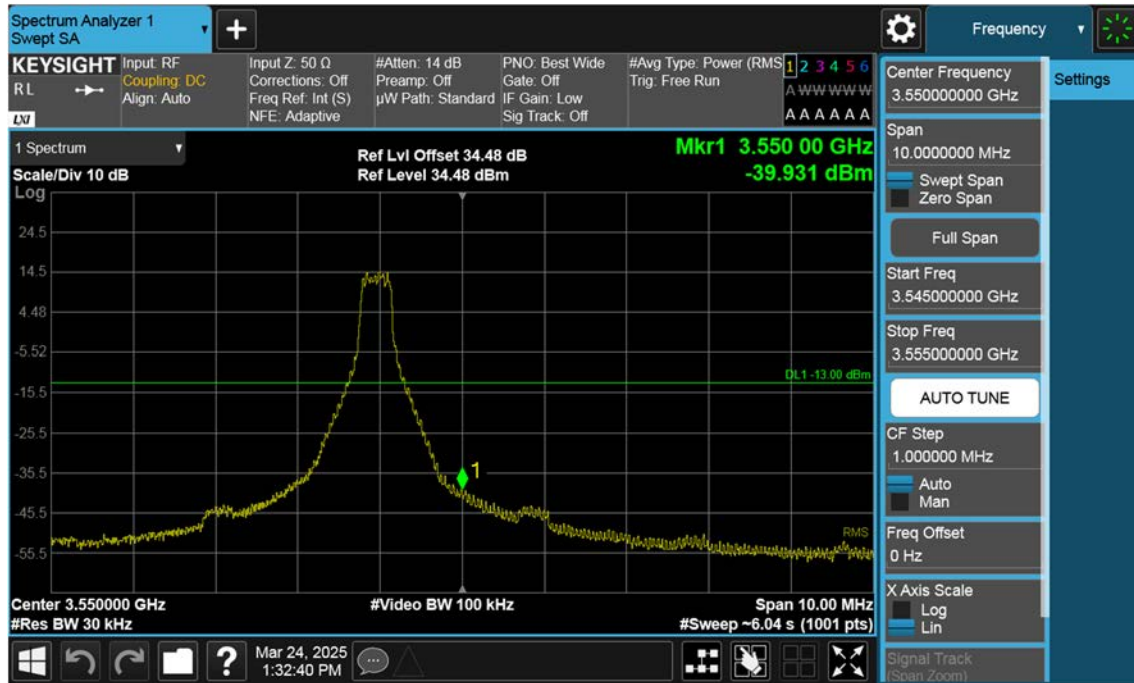
n77(3450~3550 MHz)_100 M_Band Edge_Low_BPSK_1RB(3)



n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_FullRB(1)



n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_1RB(1)



n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_FullRB(2)



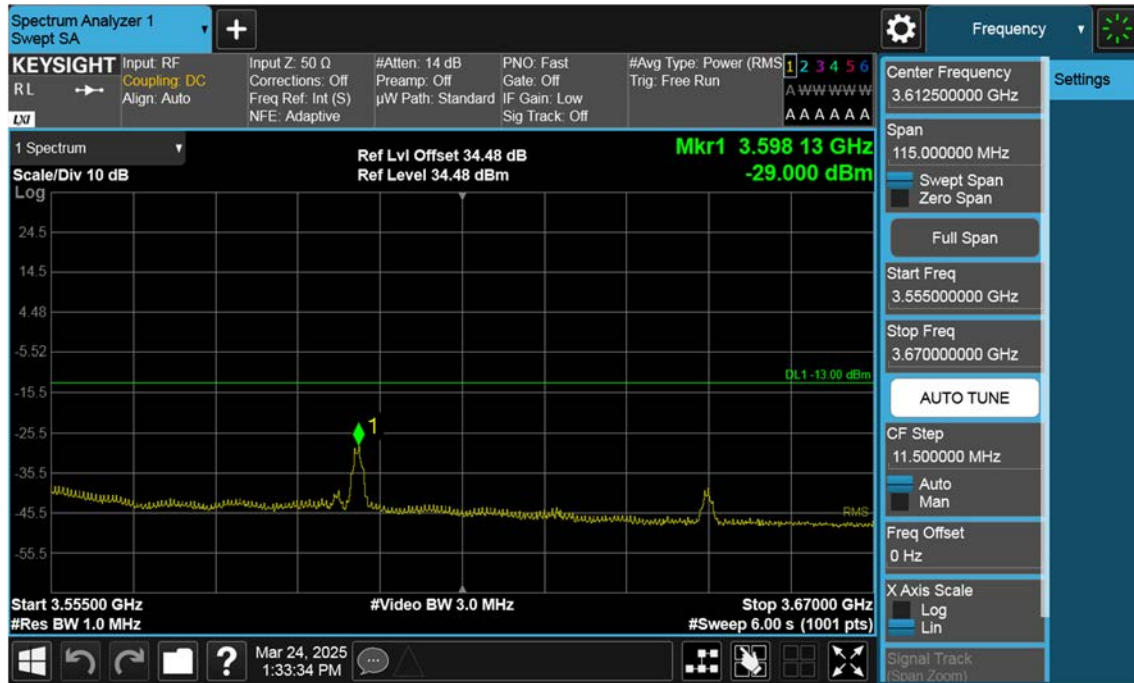
n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_1RB(2)



n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_FullRB(3)

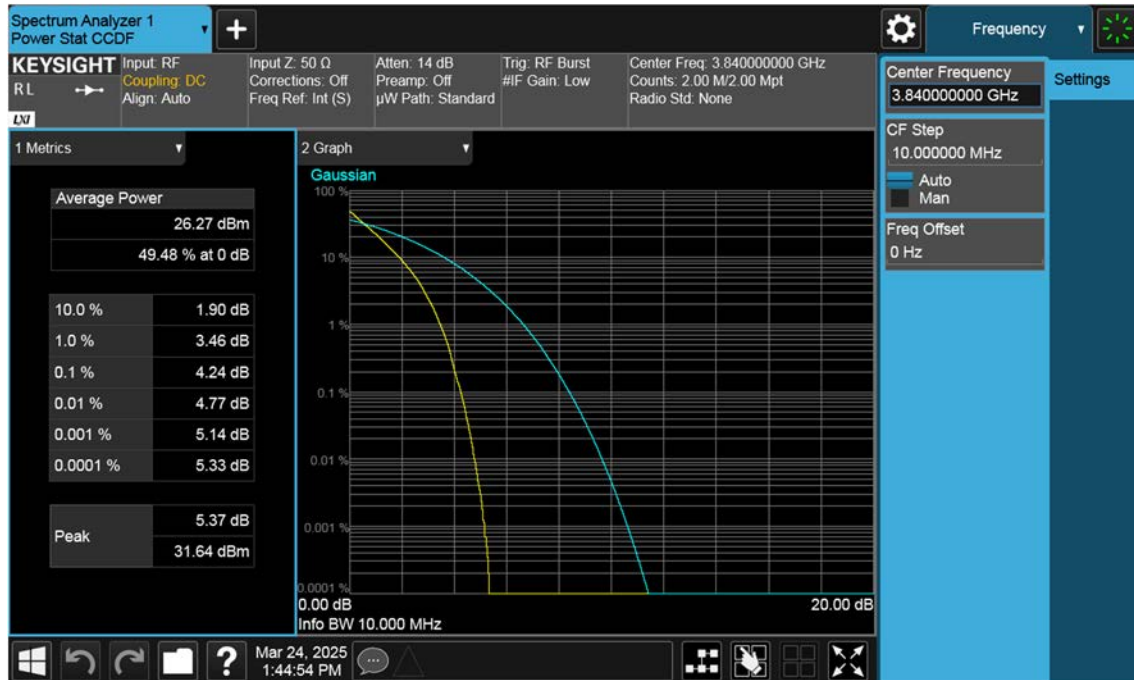


n77(3450~3550 MHz)_100 M_Band Edge_High_BPSK_1RB(3)

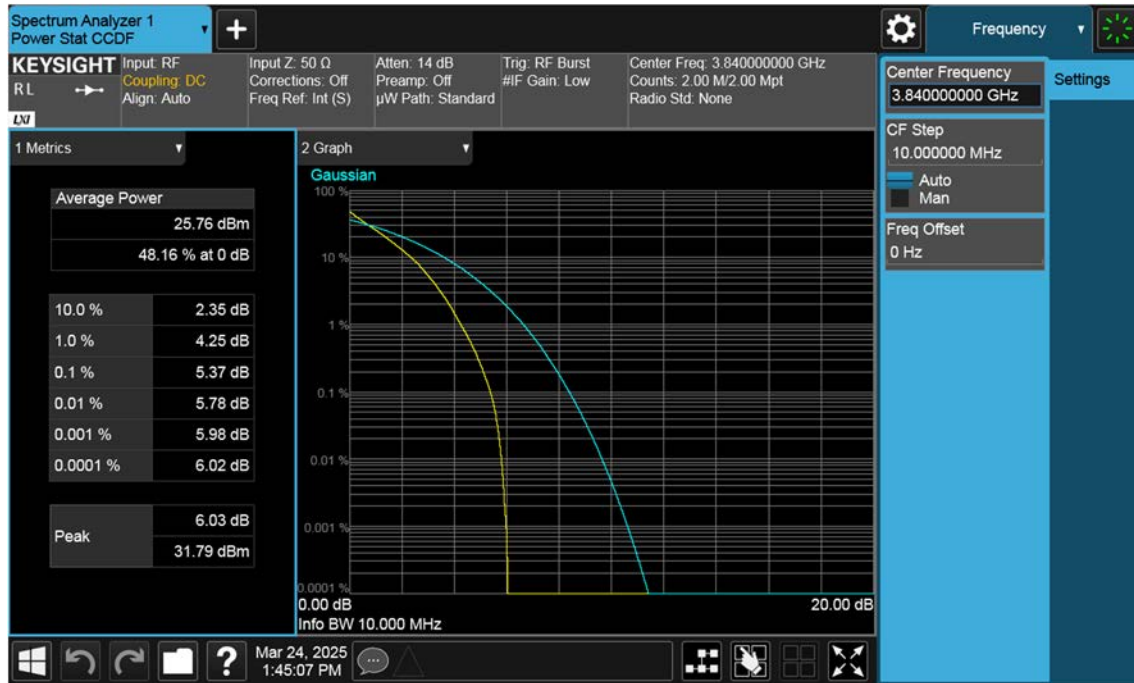


11. TEST PLOTS(3700 MHz - 3980 MHz)

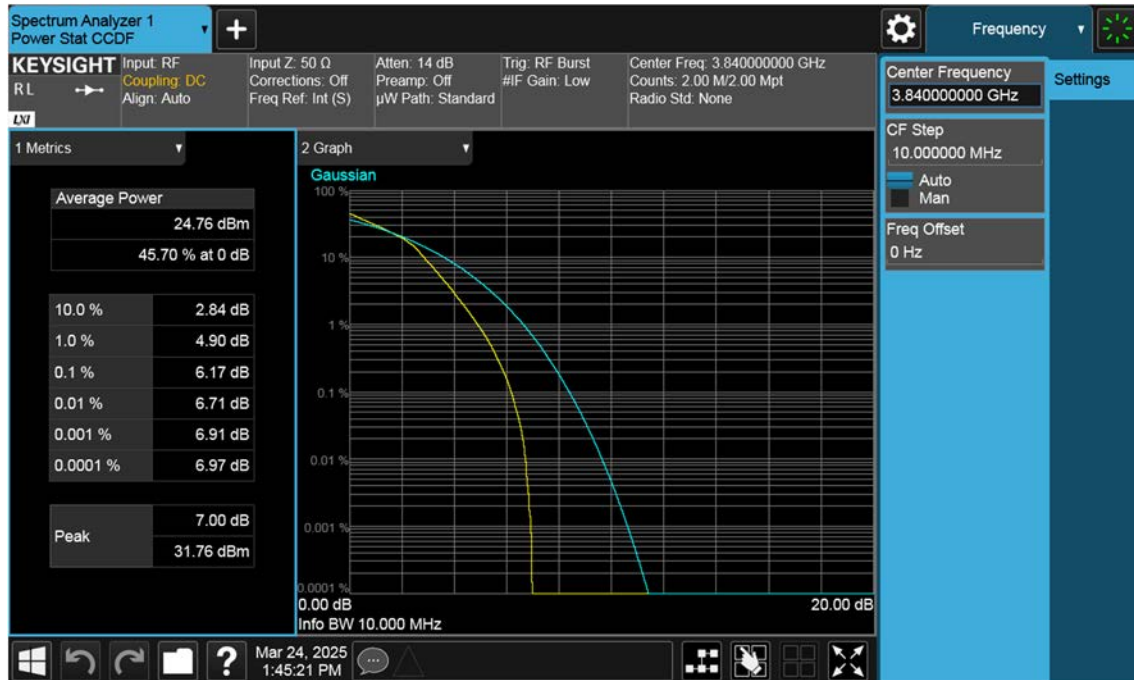
n77(3700~3980 MHz)_10 M_PAR_Mid_BPSK_FullRB



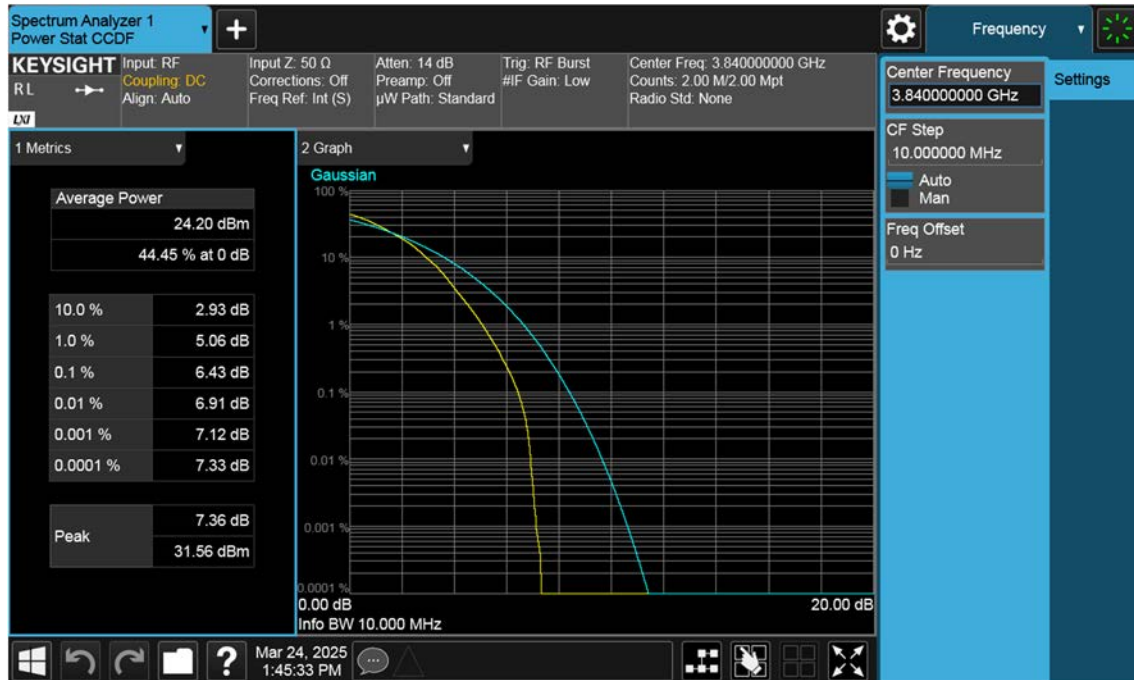
n77(3700~3980 MHz)_10 M_PAR_Mid_QPSK_FullRB



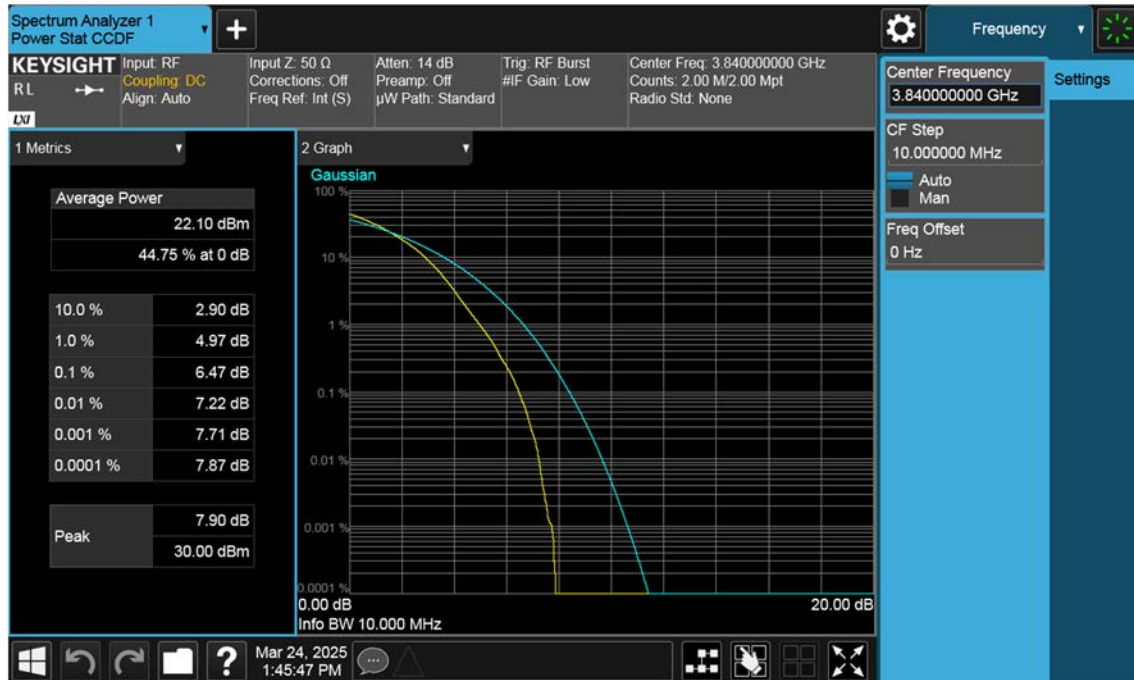
n77(3700~3980 MHz)_10 M_PAR_Mid_16QAM_FullRB



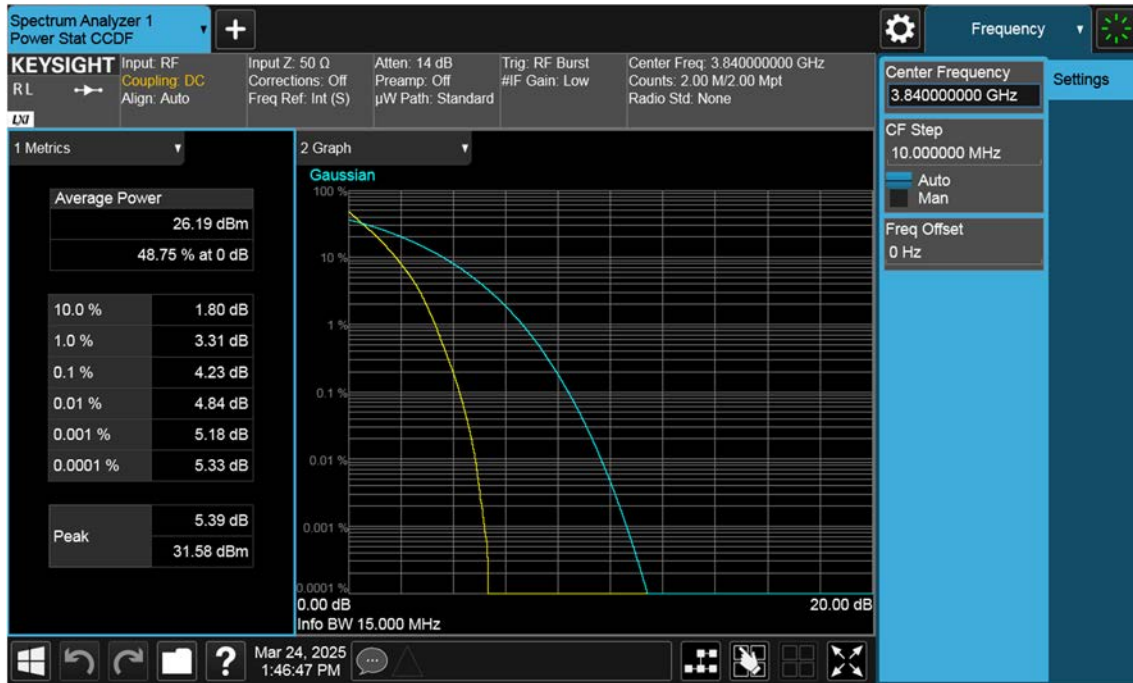
n77(3700~3980 MHz)_10 M_PAR_Mid_64QAM_FullRB



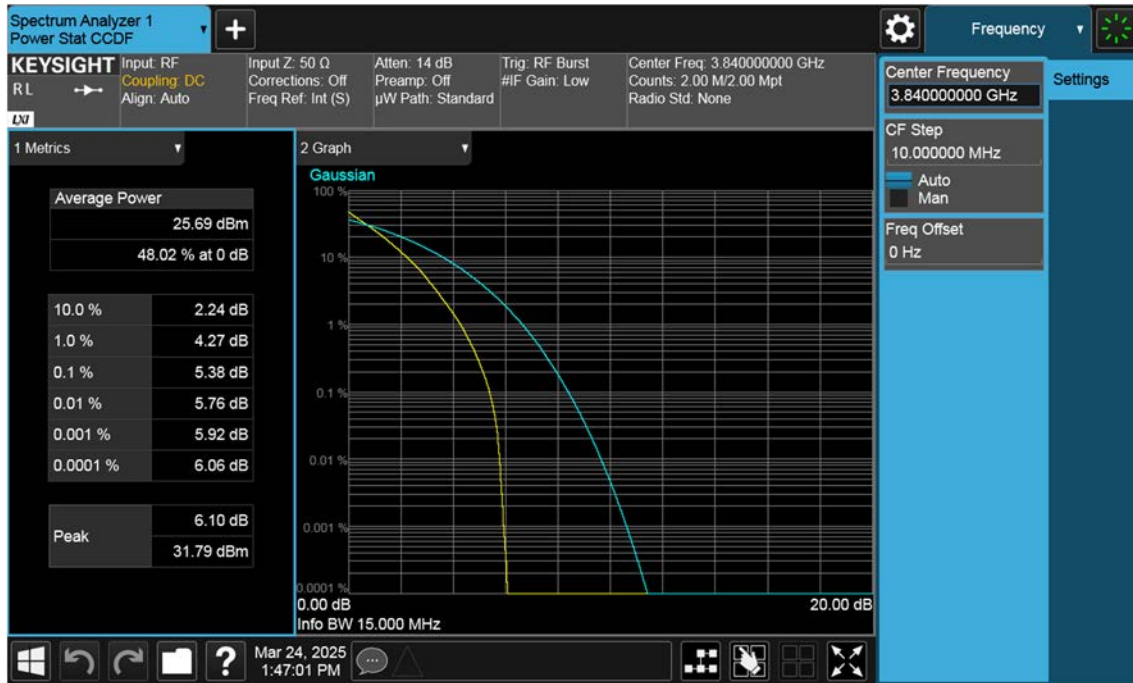
n77(3700~3980 MHz)_10 M_PAR_Mid_256QAM_FullRB



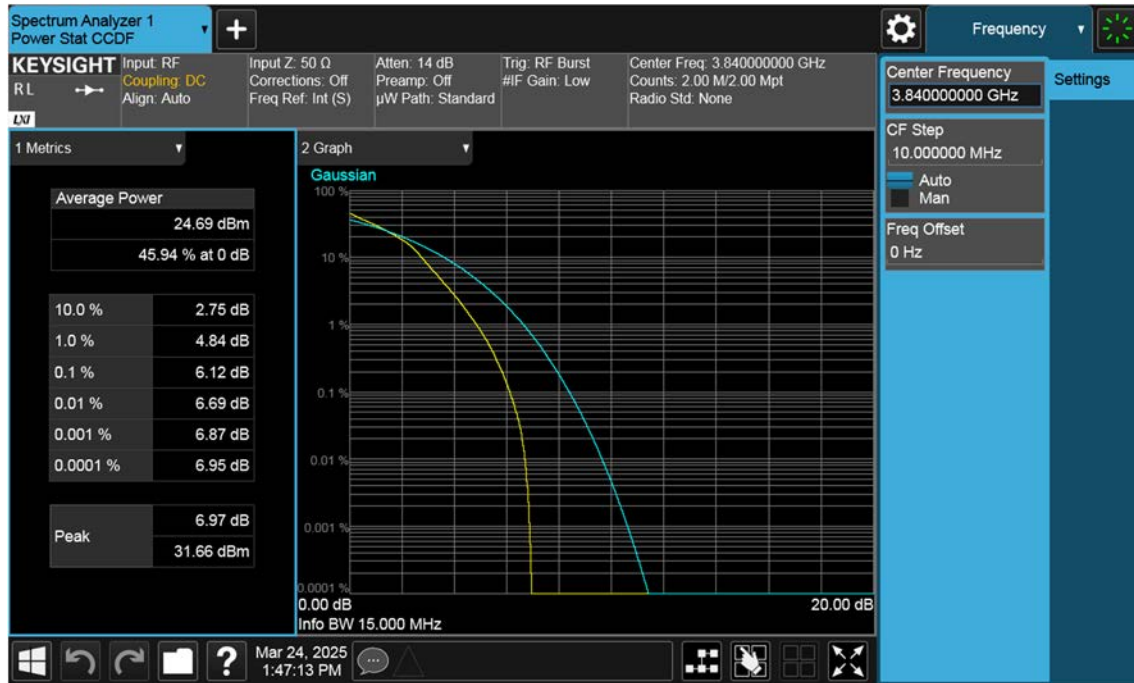
n77(3700~3980 MHz)_15 M_PAR_Mid_BPSK_FullRB



n77(3700~3980 MHz)_15 M_PAR_Mid_QPSK_FullRB



n77(3700~3980 MHz)_15 M_PAR_Mid_16QAM_FullRB



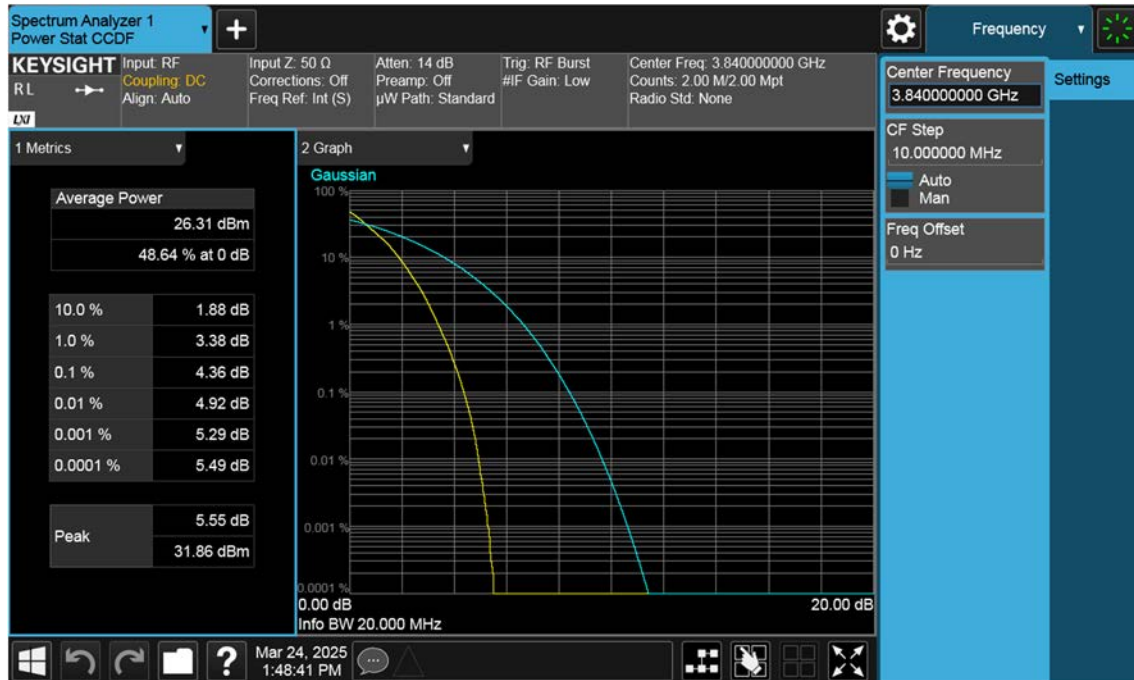
n77(3700~3980 MHz)_15 M_PAR_Mid_64QAM_FullRB



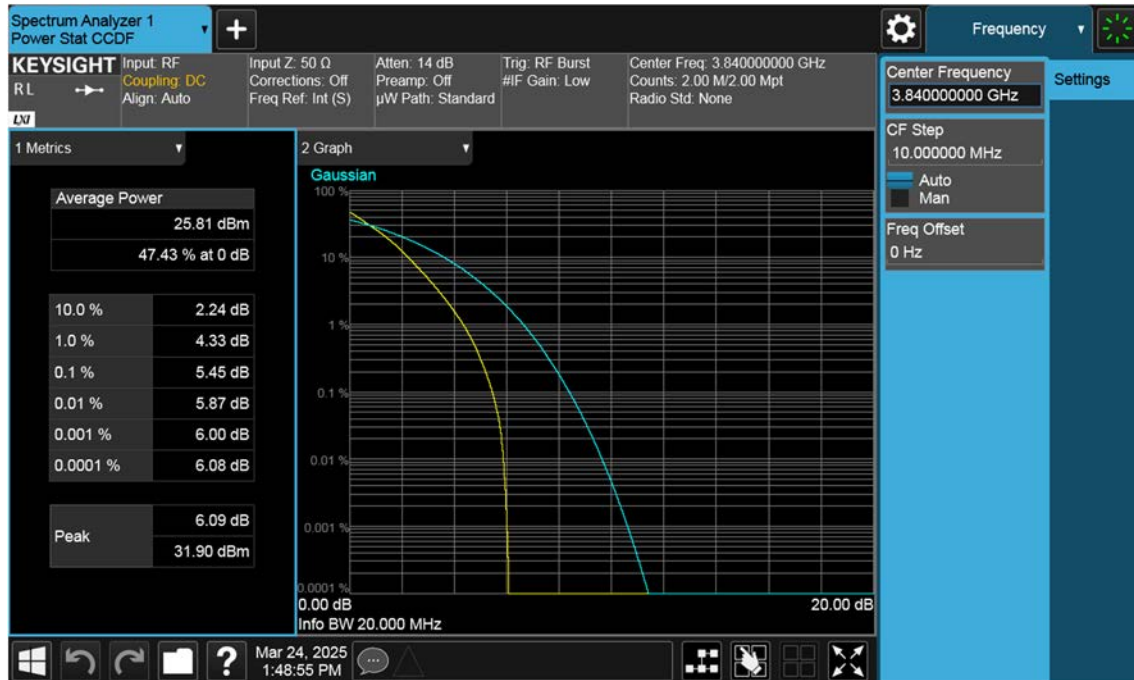
n77(3700~3980 MHz)_15 M_PAR_Mid_256QAM_FullRB



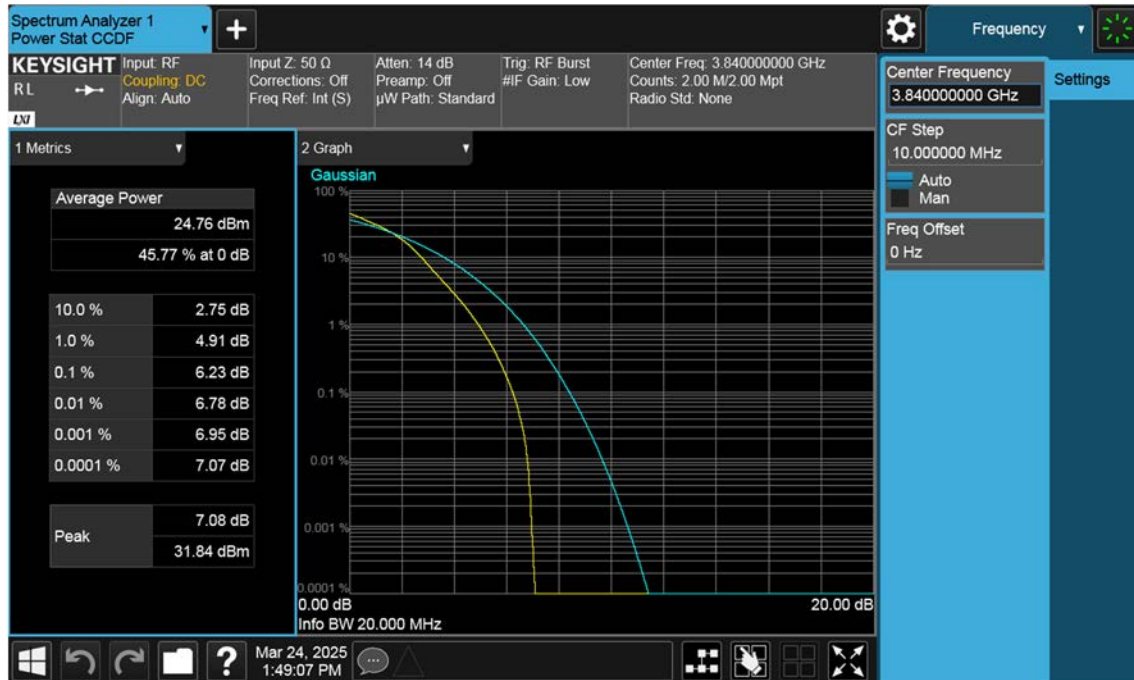
n77(3700~3980 MHz)_20 M_PAR_Mid_BPSK_FullRB



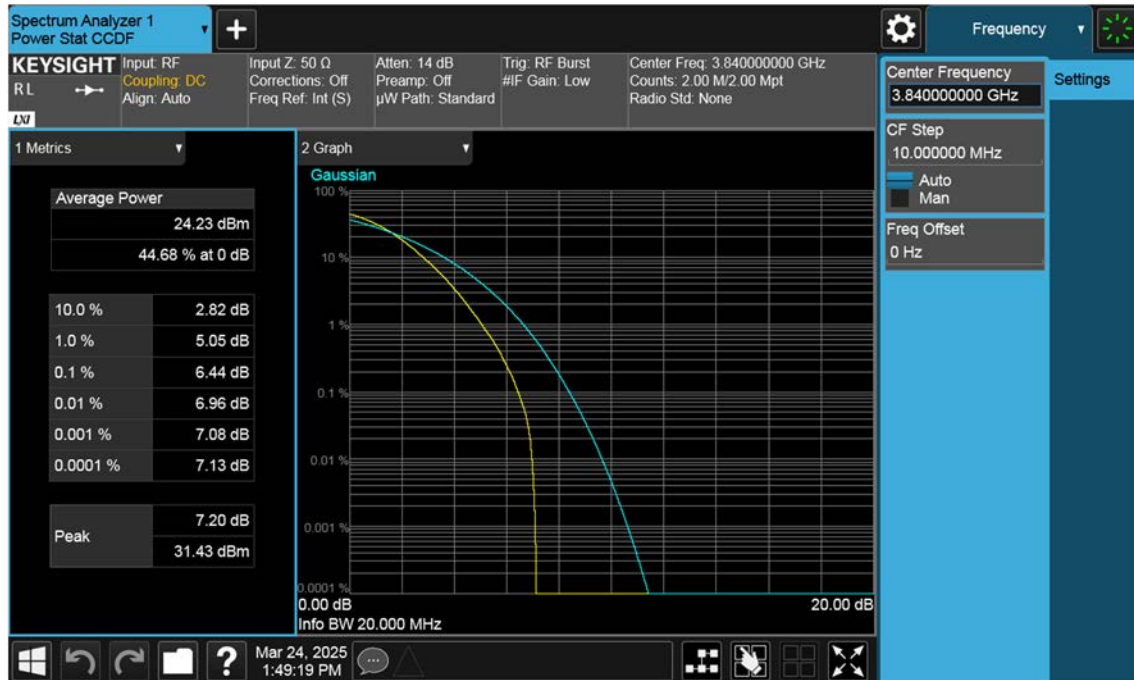
n77(3700~3980 MHz)_20 M_PAR_Mid_QPSK_FullRB



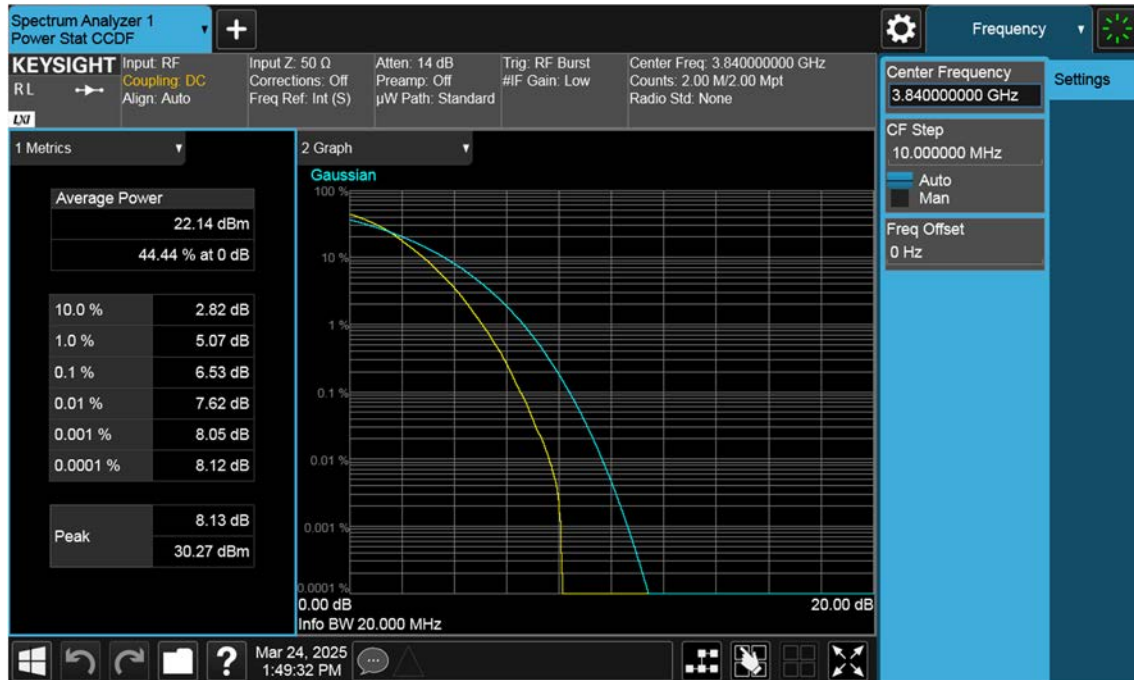
n77(3700~3980 MHz)_20 M_PAR_Mid_16QAM_FullRB



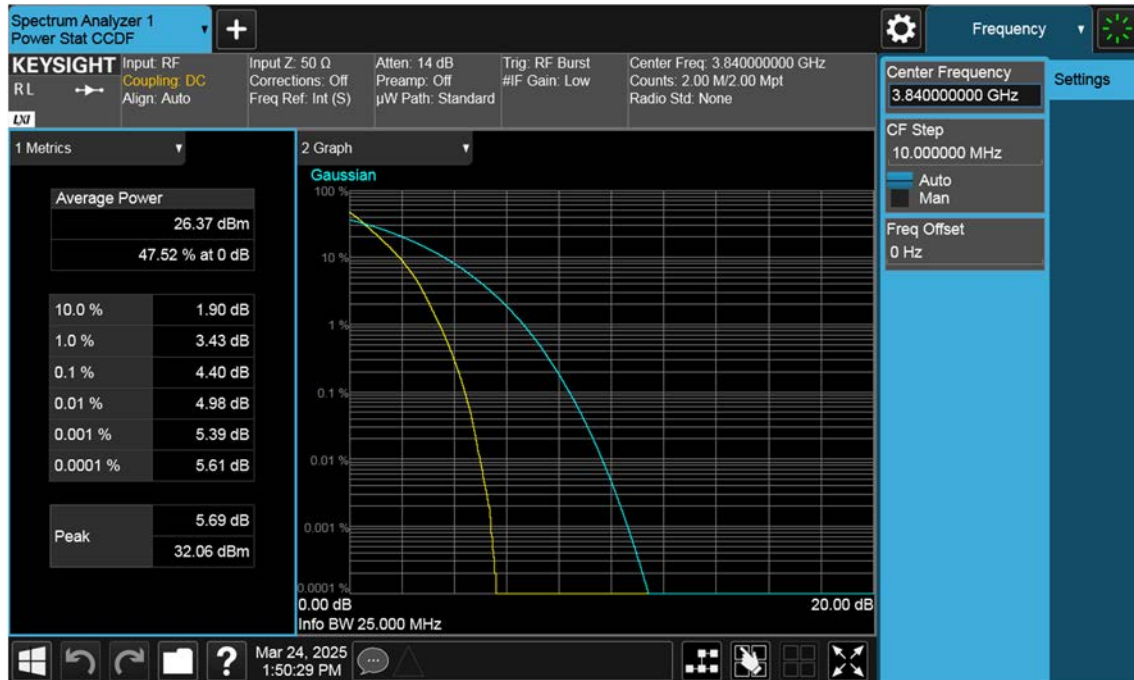
n77(3700~3980 MHz)_20 M_PAR_Mid_64QAM_FullRB



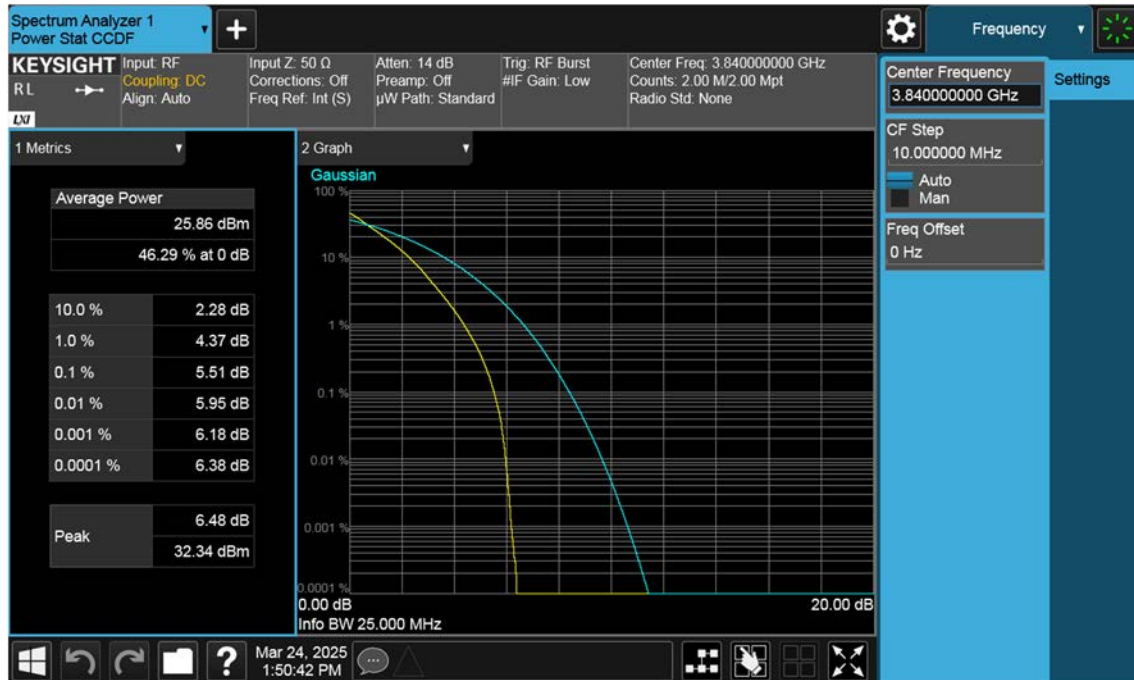
n77(3700~3980 MHz)_20 M_PAR_Mid_256QAM_FullRB



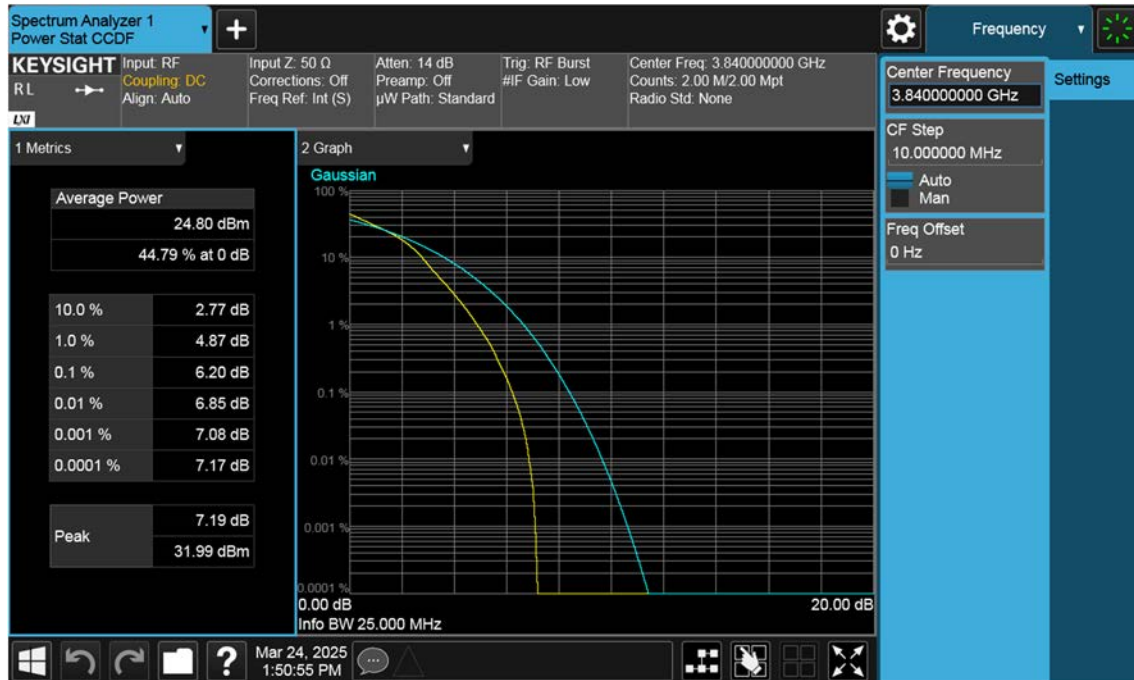
n77(3700~3980 MHz)_25 M_PAR_Mid_BPSK_FullRB



n77(3700~3980 MHz)_25 M_PAR_Mid_QPSK_FullRB



n77(3700~3980 MHz)_25 M_PAR_Mid_16QAM_FullRB



Keysight Spectrum Analyzer 1 Power Stat CCDF

Input: RF
Coupling: DC
Align: Auto

Input Z: 50 Ω
Corrections: Off
Freq Ref: Int (S)

Atten: 14 dB
Preamp: Off
 μ W Path: Standard

Trig: RF Burst
#IF Gain: Low

Center Freq: 3.840000000 GHz
Counts: 2.00 M/2.00 Mpt
Radio Std: None

Center Frequency
 3.840000000 GHz

CF Step
 10.000000 MHz

Freq Offset
 0 Hz

1 Metrics

Average Power	
	24.31 dBm
	43.59 % at 0 dB

10.0 %	2.87 dB
1.0 %	5.07 dB
0.1 %	6.42 dB
0.01 %	6.99 dB
0.001 %	7.33 dB
0.0001 %	7.50 dB

Peak

7.50 dB
31.81 dBm

2 Graph

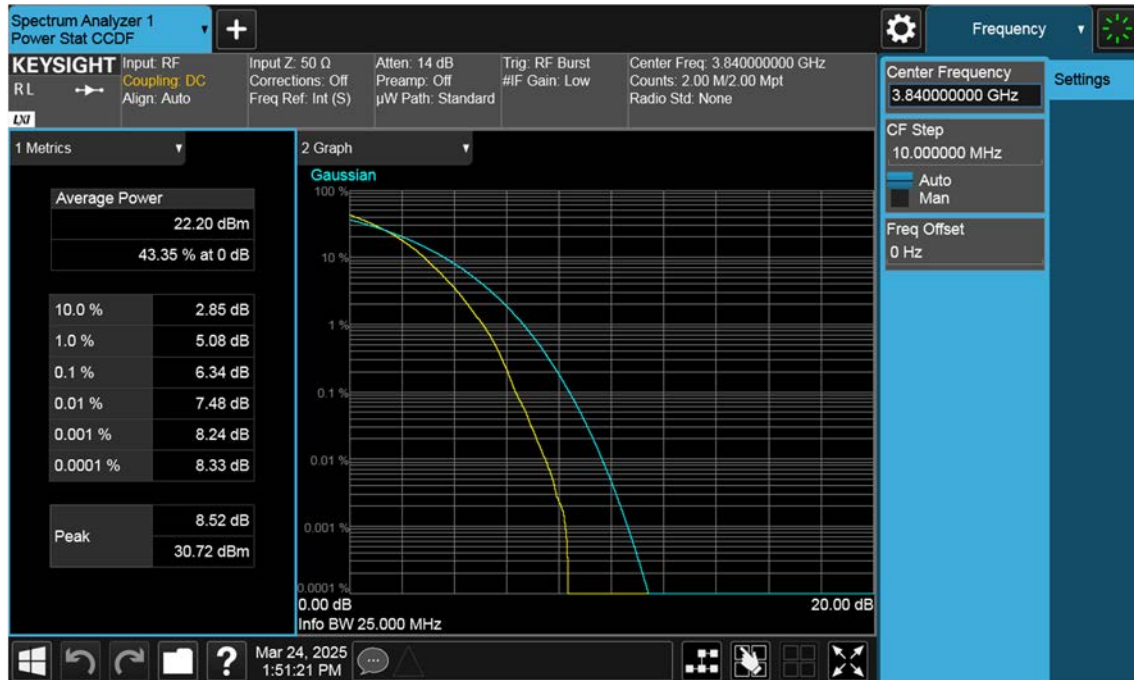
Gaussian

100 %
 10 %
 1 %
 0.1 %
 0.01 %
 0.001 %
 0.0001 %
 0.0001 %

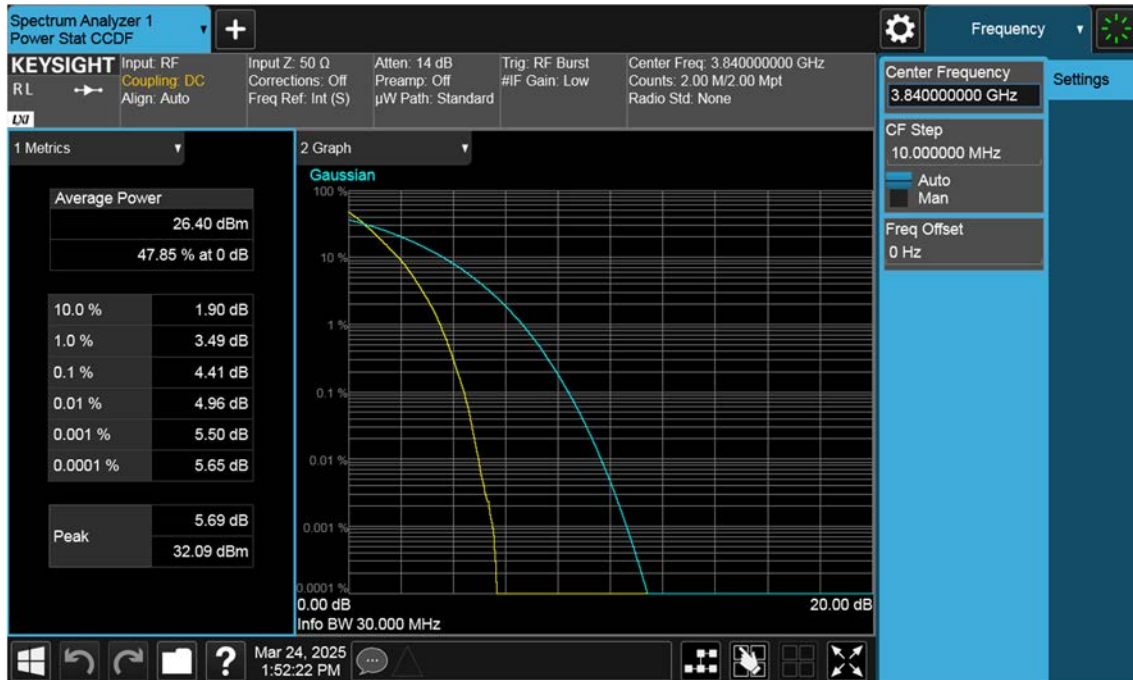
0.00 dB
 20.00 dB

Info BW 25.000 MHz

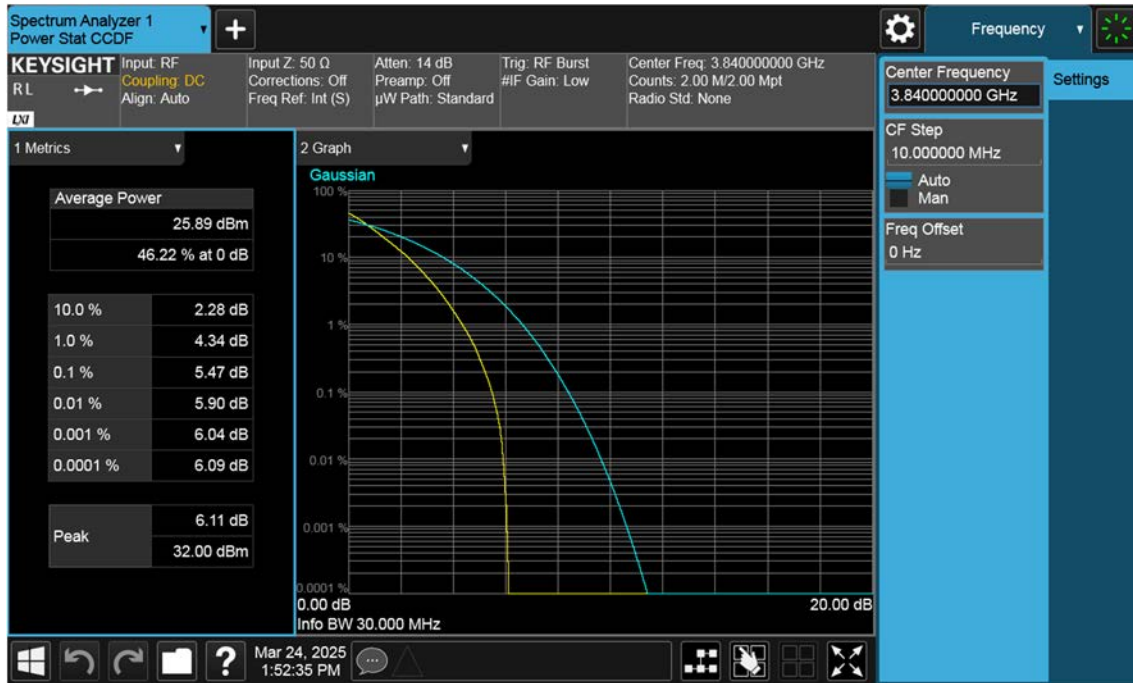
n77(3700~3980 MHz)_25 M_PAR_Mid_256QAM_FullRB



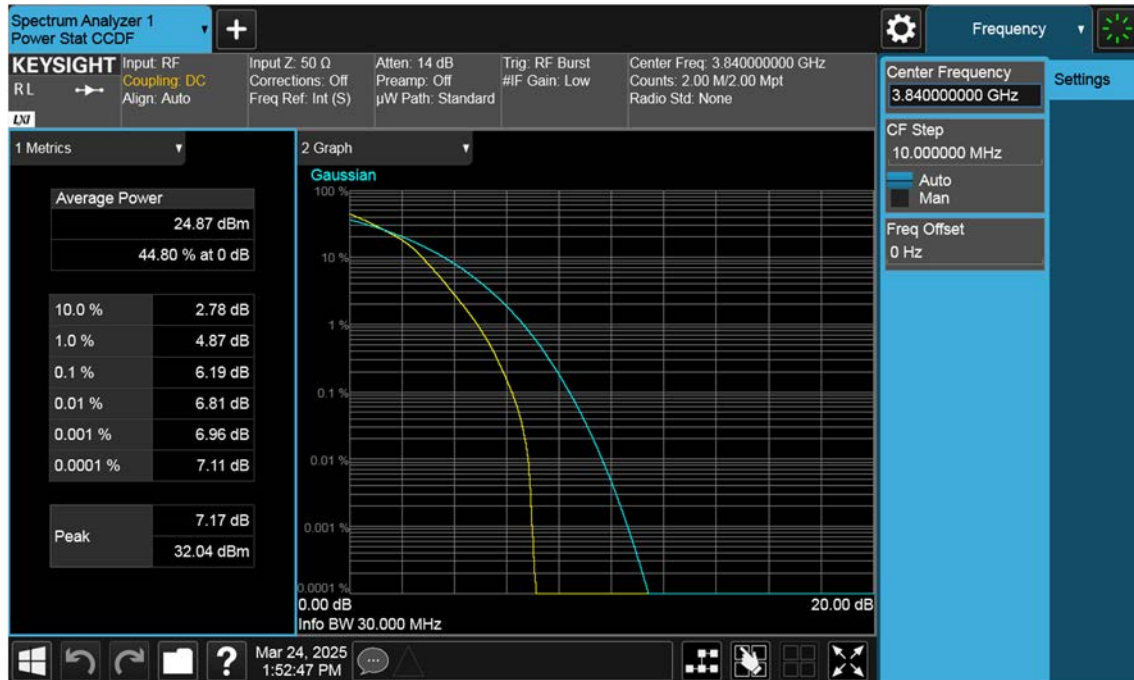
n77(3700~3980 MHz)_30 M_PAR_Mid_BPSK_FullRB



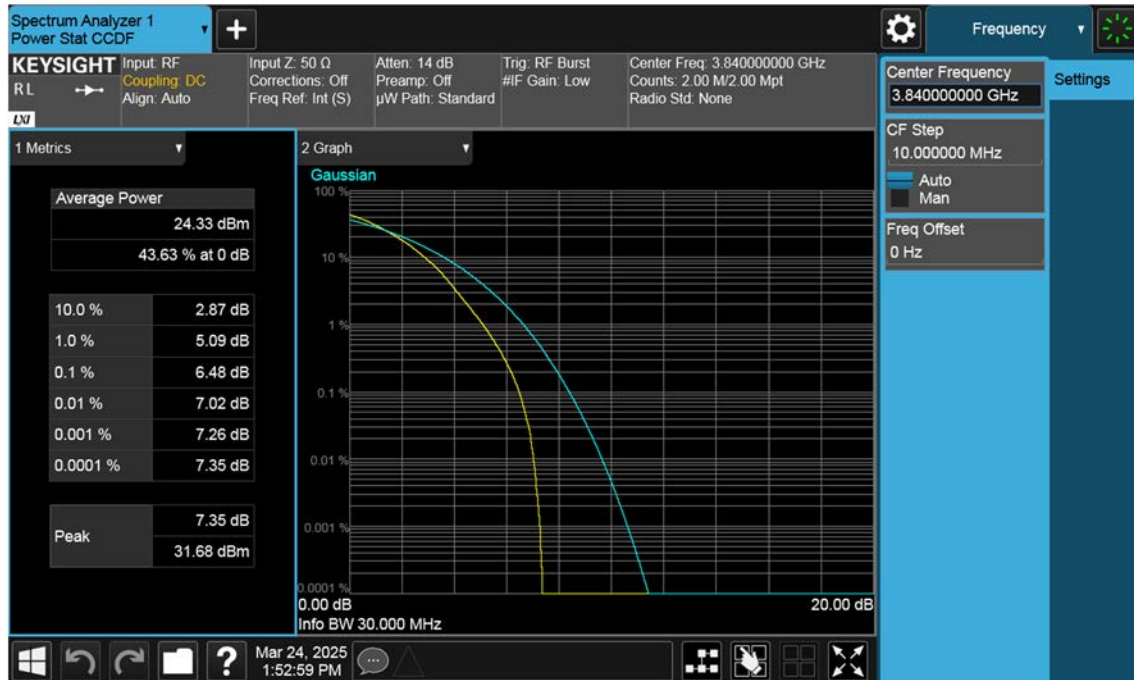
n77(3700~3980 MHz)_30 M_PAR_Mid_QPSK_FullRB



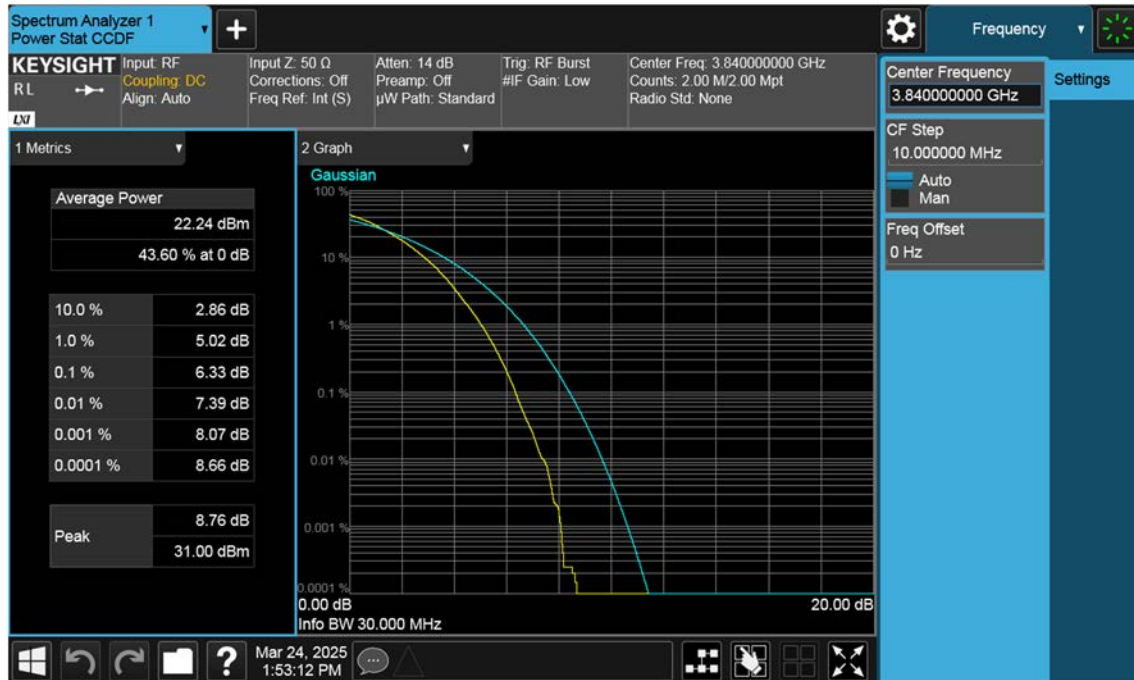
n77(3700~3980 MHz)_30 M_PAR_Mid_16QAM_FullRB



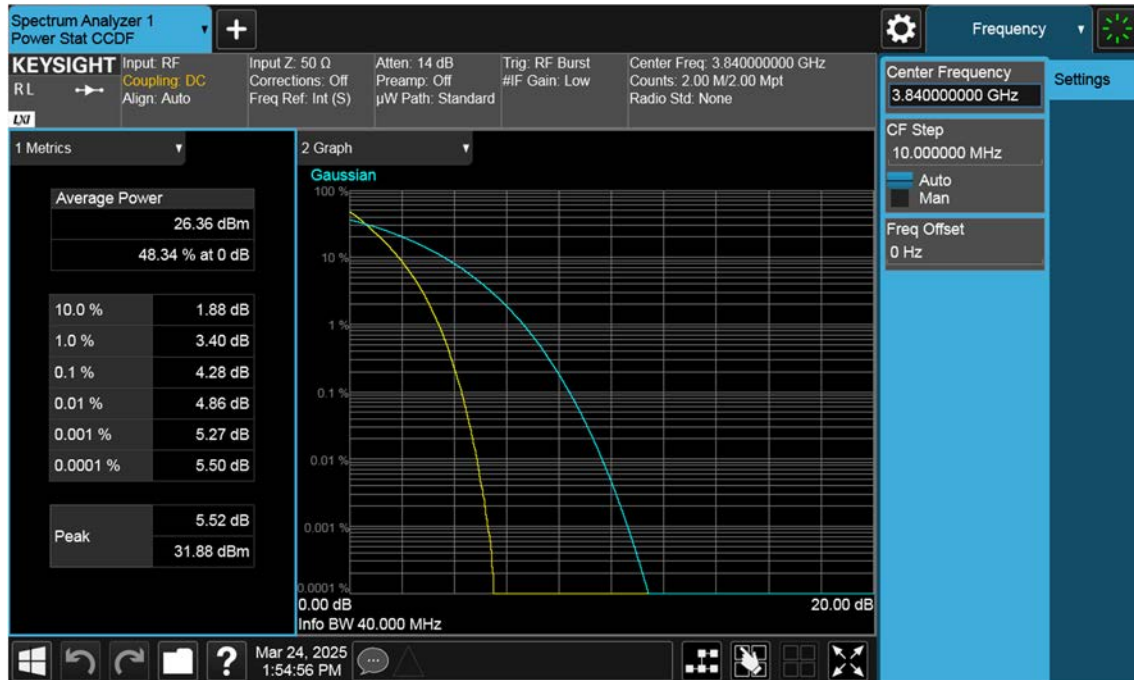
n77(3700~3980 MHz)_30 M_PAR_Mid_64QAM_FullRB



n77(3700~3980 MHz)_30 M_PAR_Mid_256QAM_FullRB



n77(3700~3980 MHz)_40 M_PAR_Mid_BPSK_FullRB



n77(3700~3980 MHz)_40 M_PAR_Mid_QPSK_FullRB

