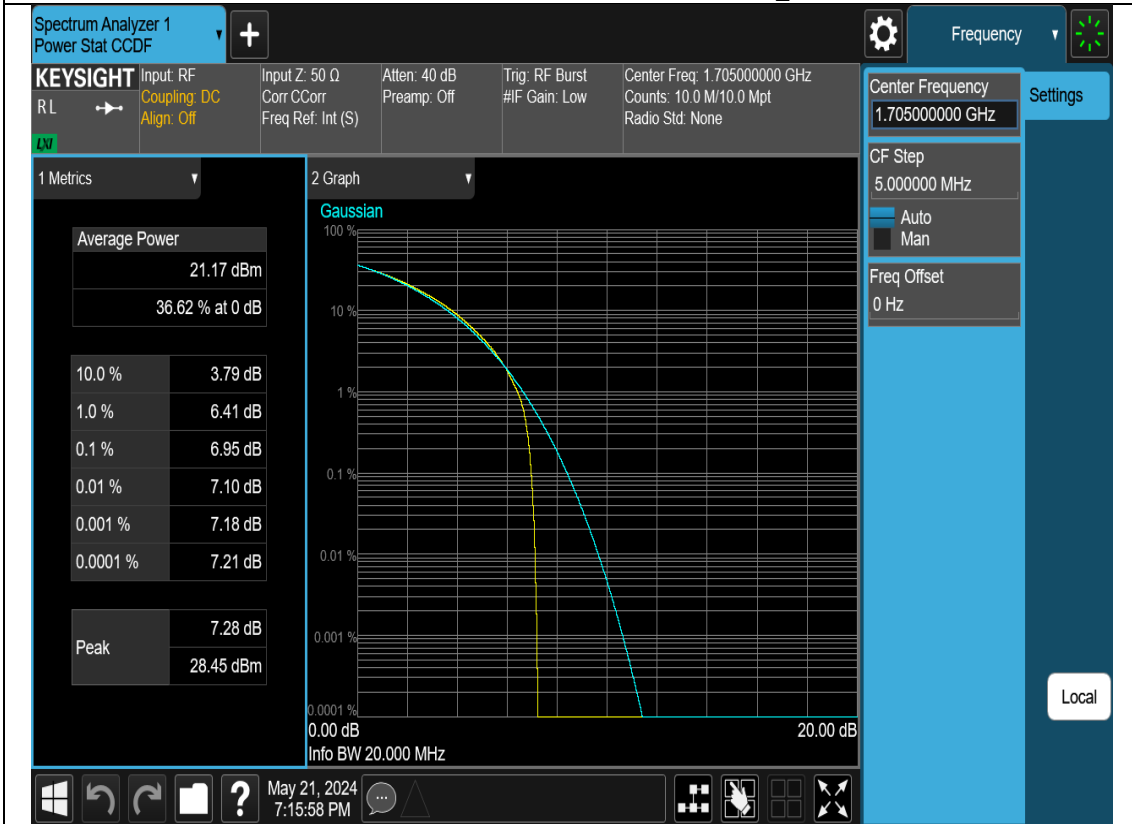


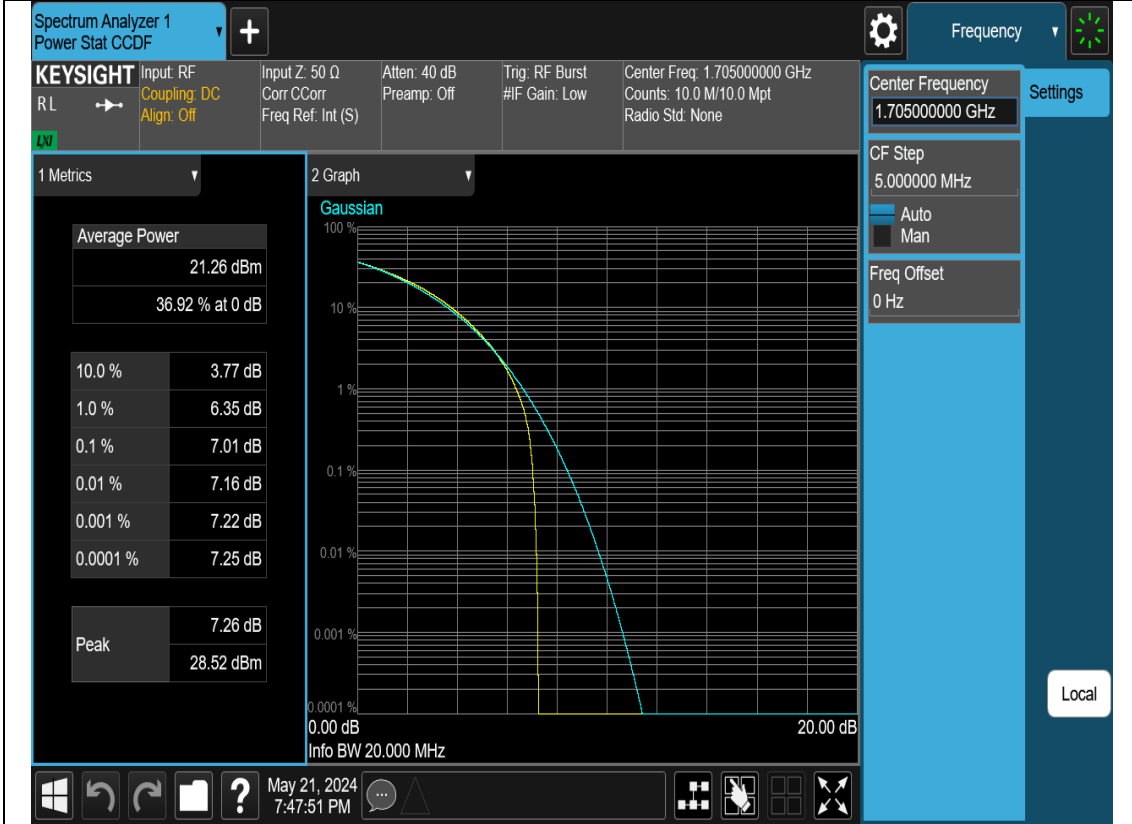
N70-10M-PAPR-H-DFT-s-OFDM-256QAM-Outer_Full



N70-10M-PAPR-H-CP-OFDM-QPSK-Outer_Full



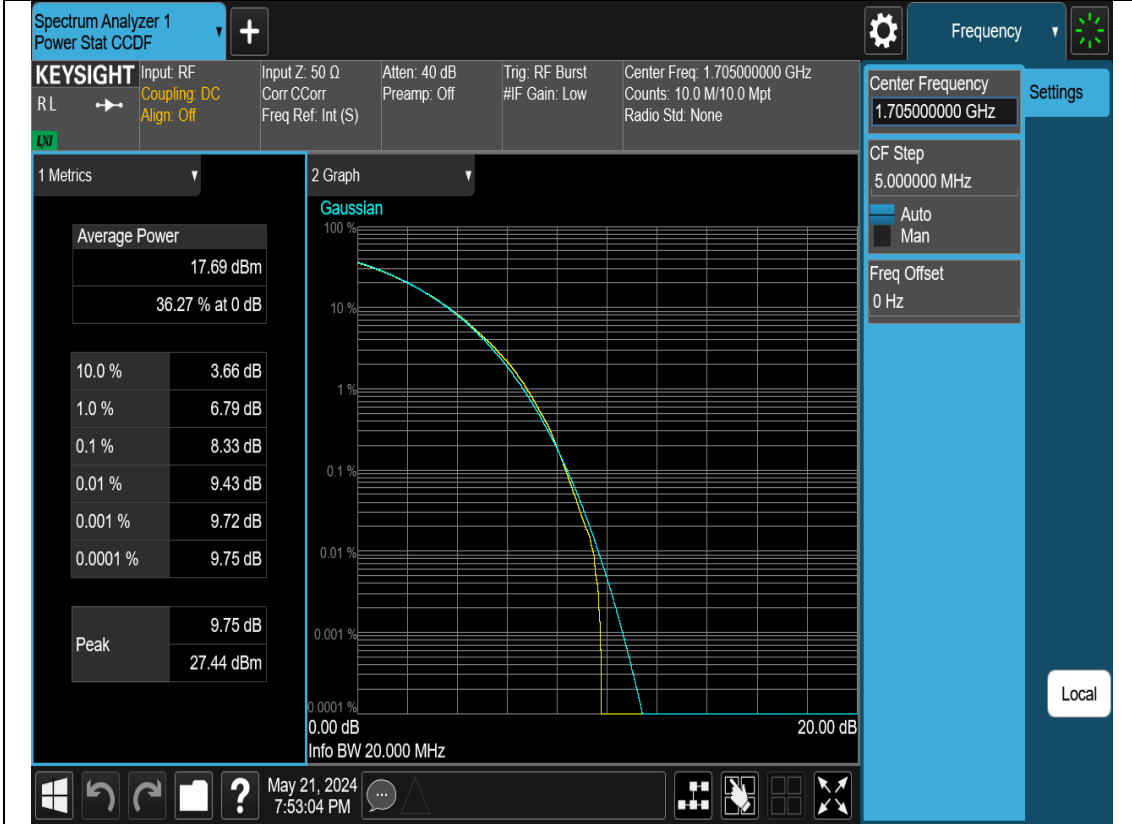
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N70-10M-PAPR-H-CP-OFDM-64QAM-Outer_Full



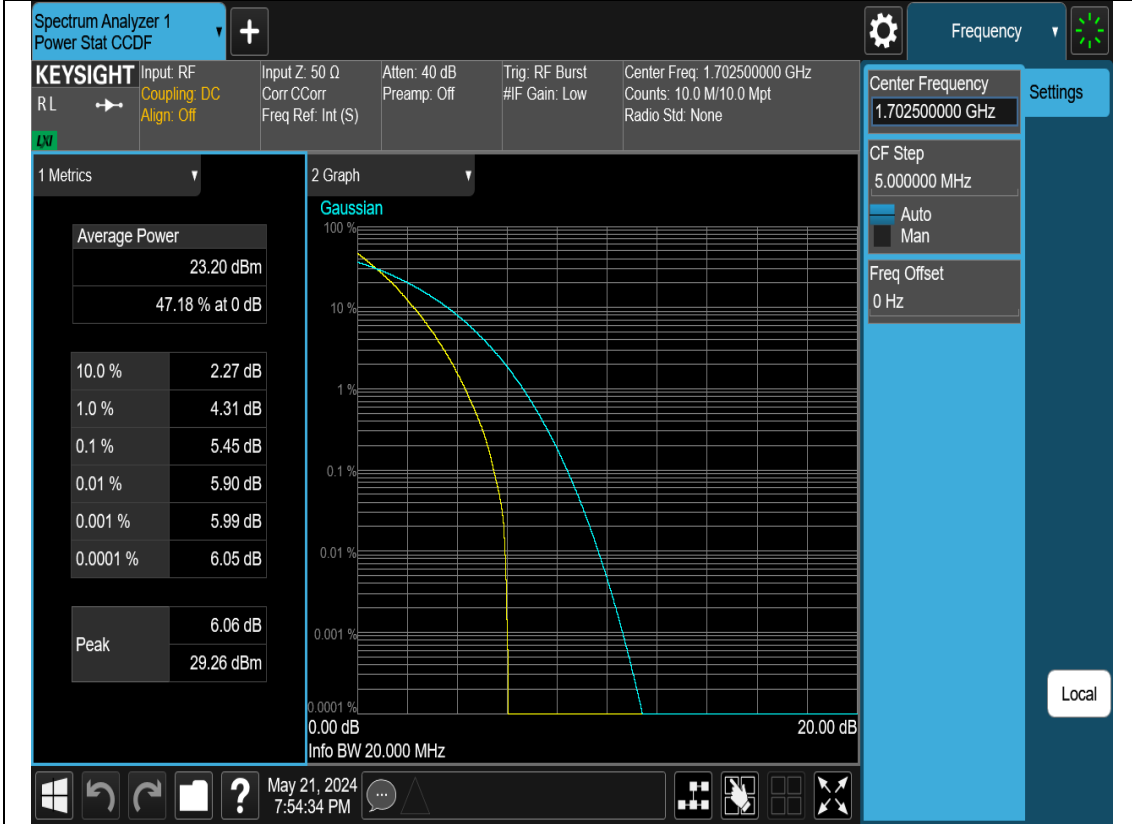
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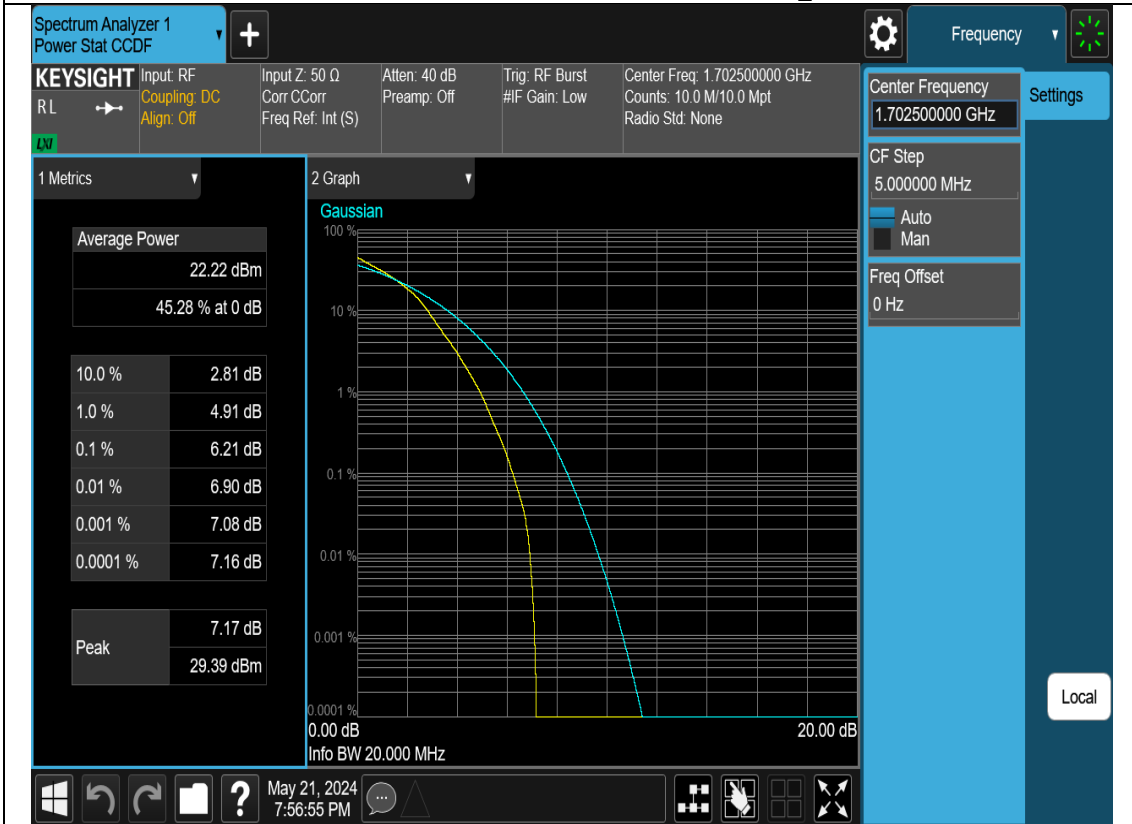
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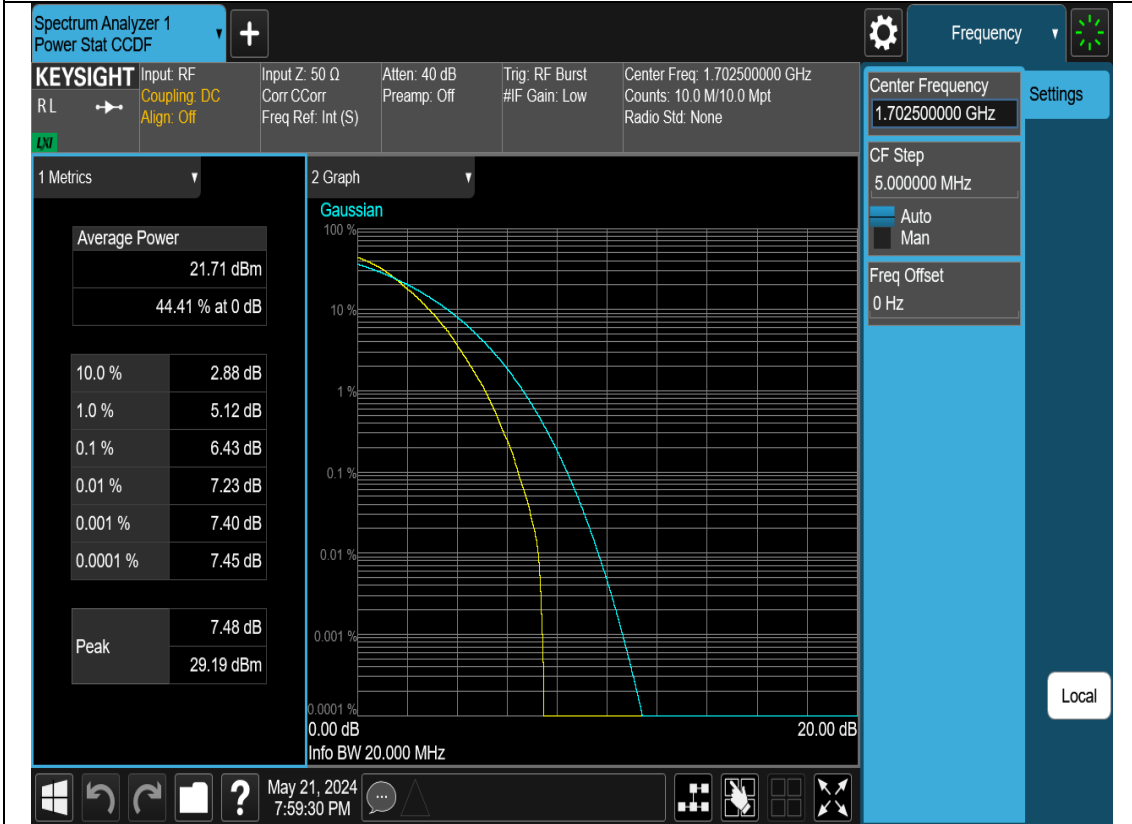
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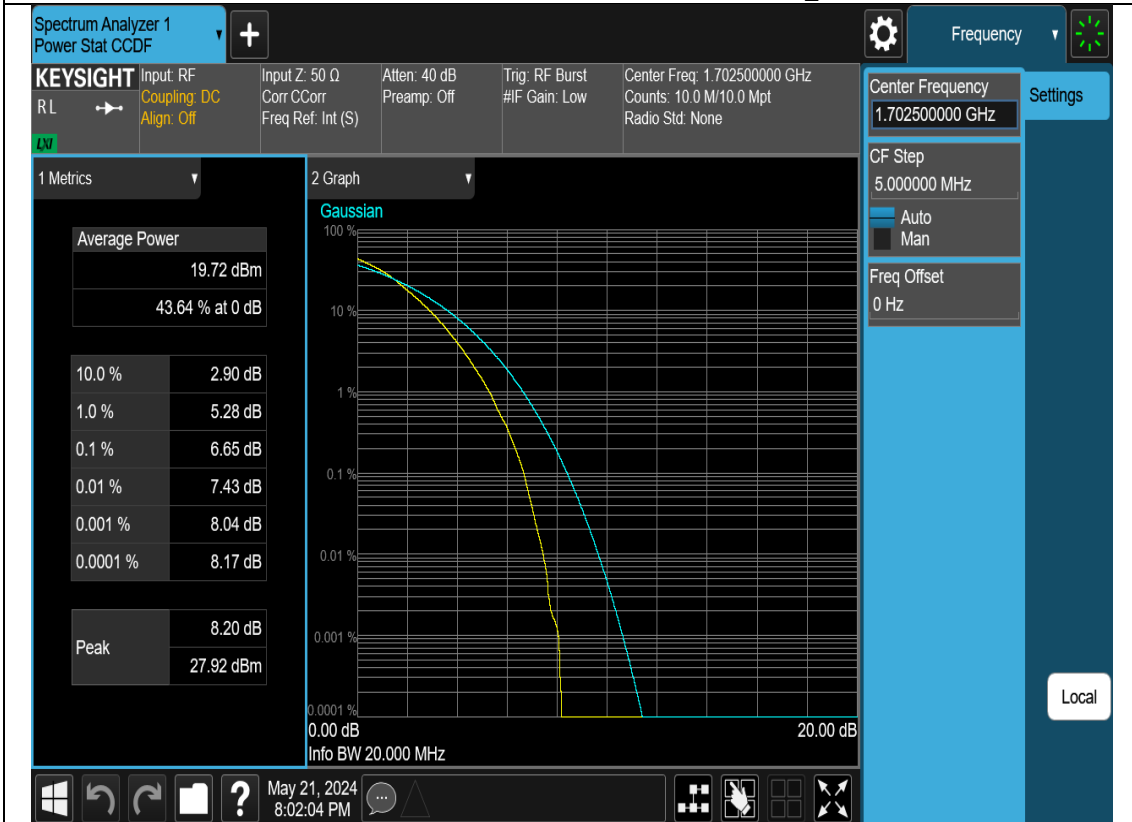
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N70-15M-PAPR-L-DFT-s-OFDM-64QAM-Outer_Full



N70-15M-PAPR-L-DFT-s-OFDM-256QAM-Outer_Full



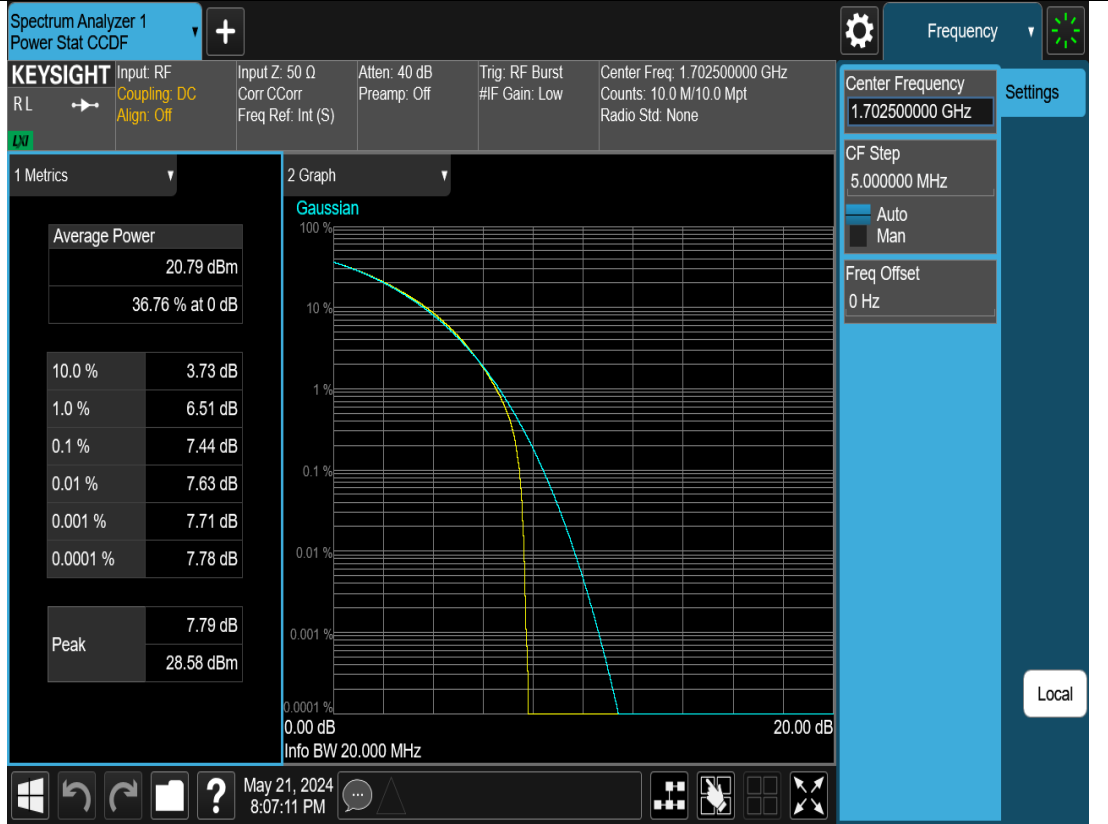
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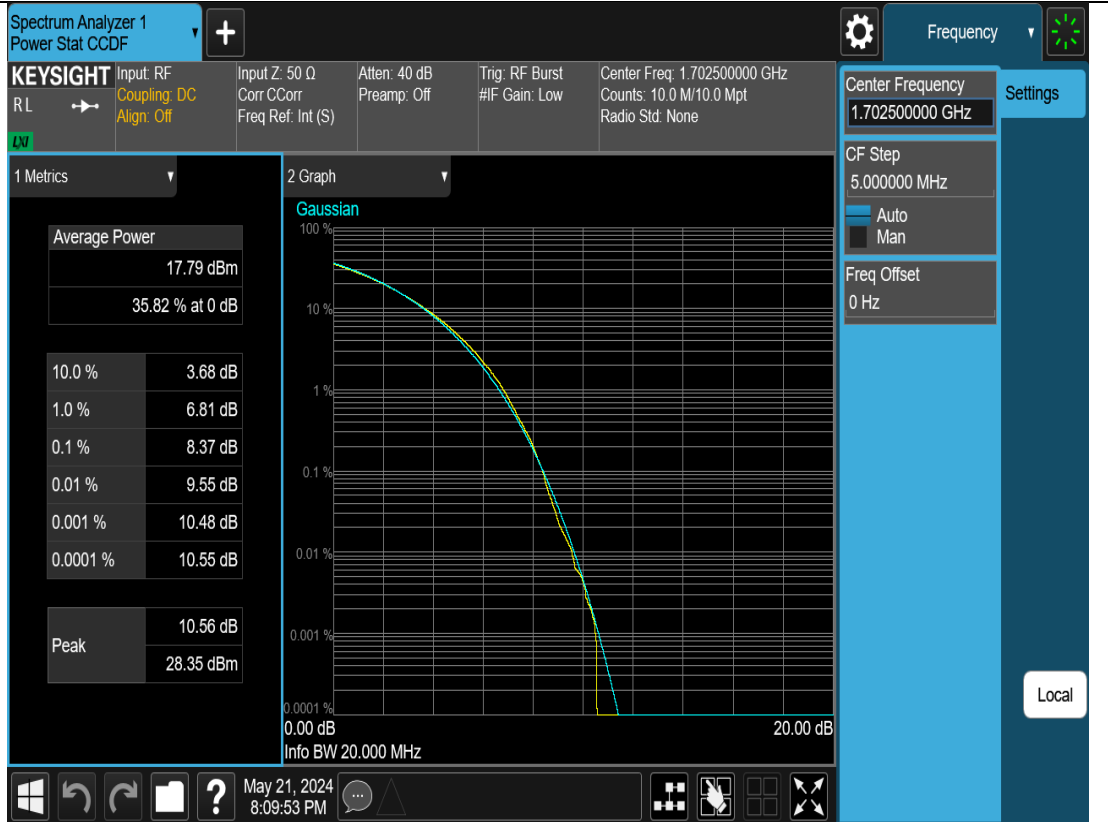
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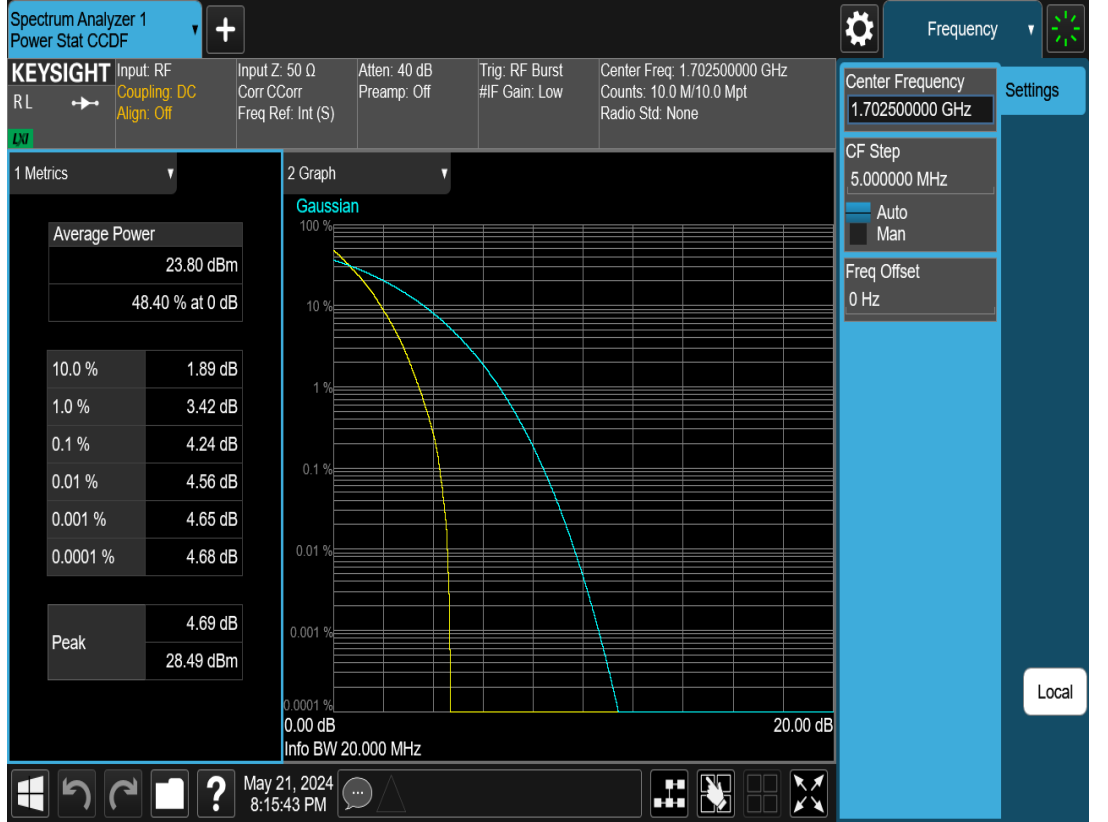
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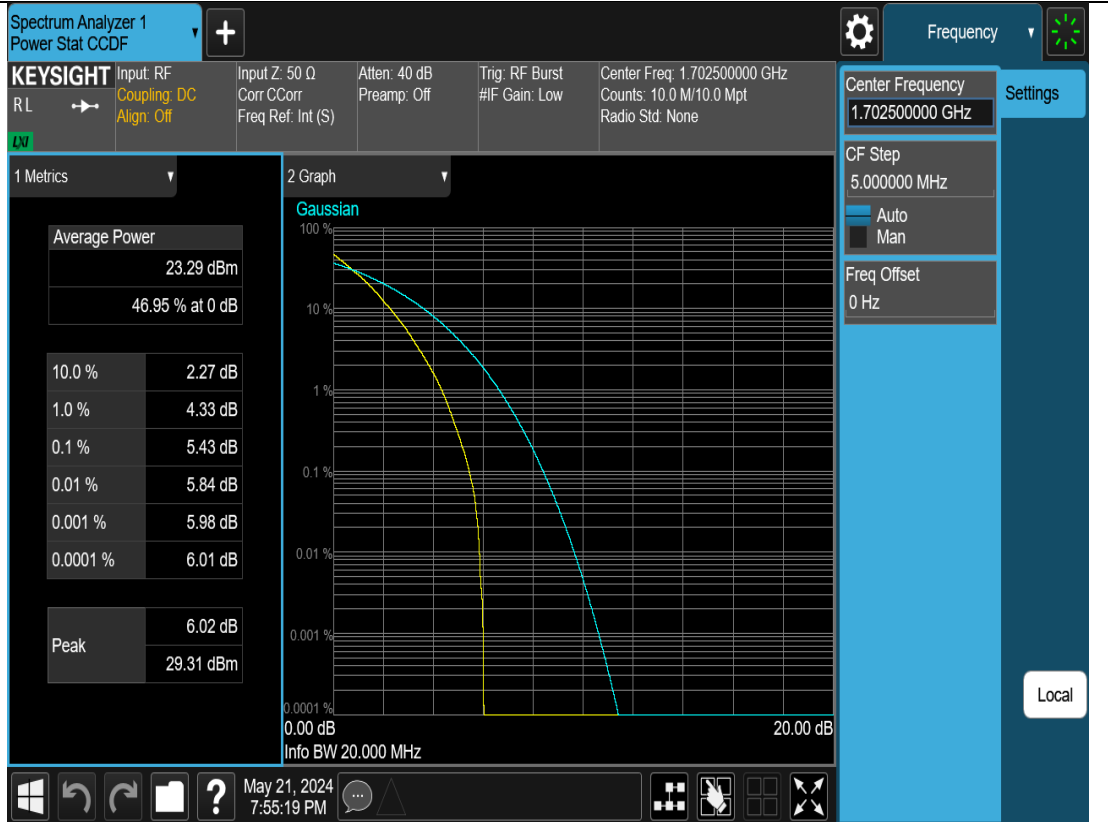
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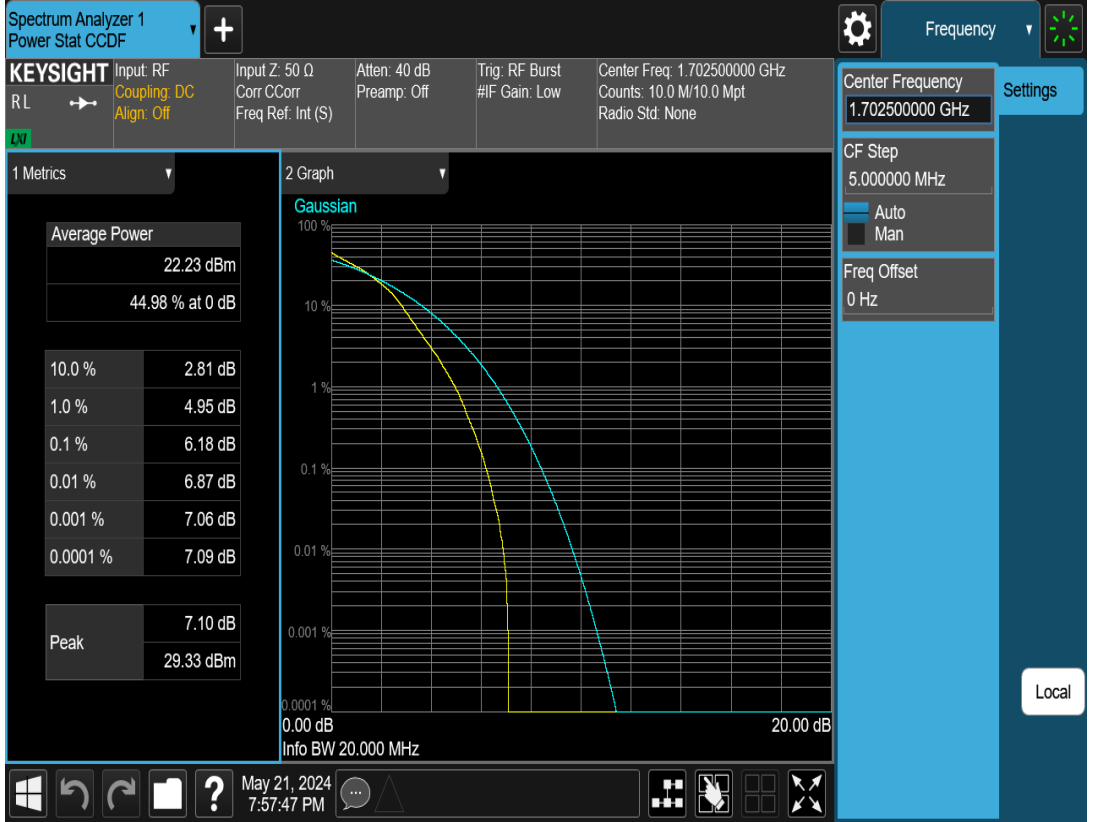
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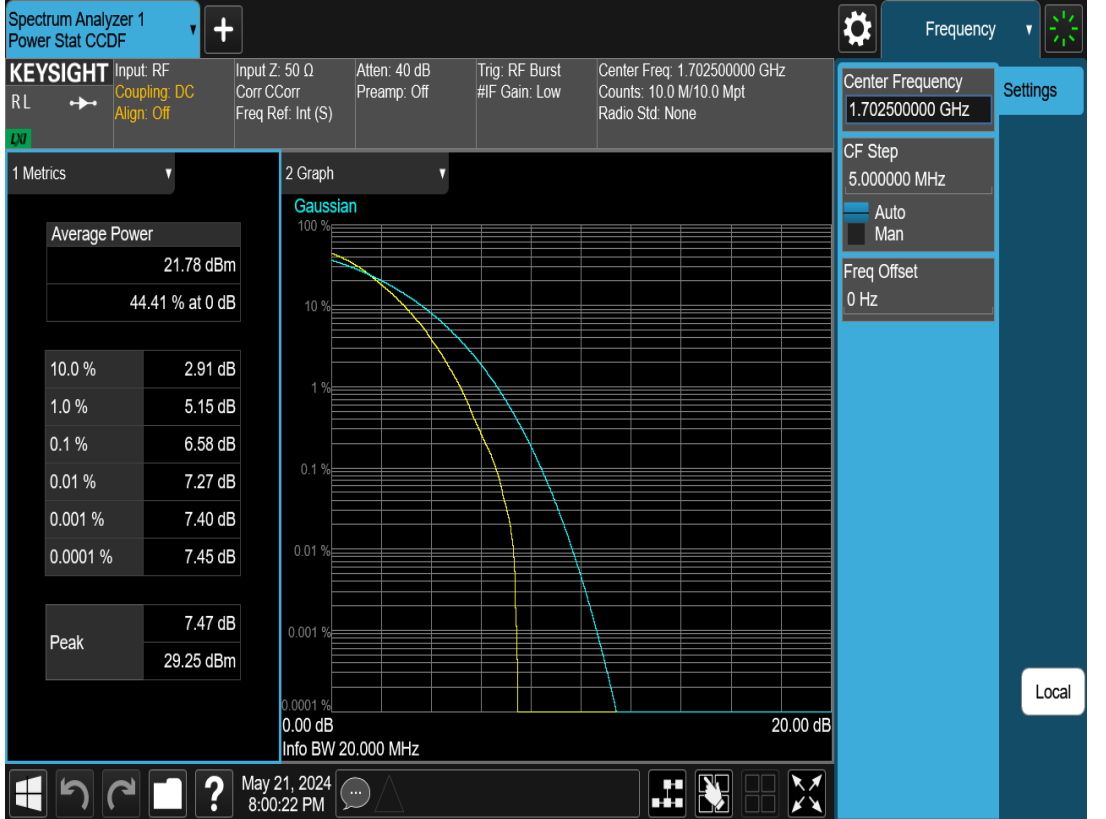
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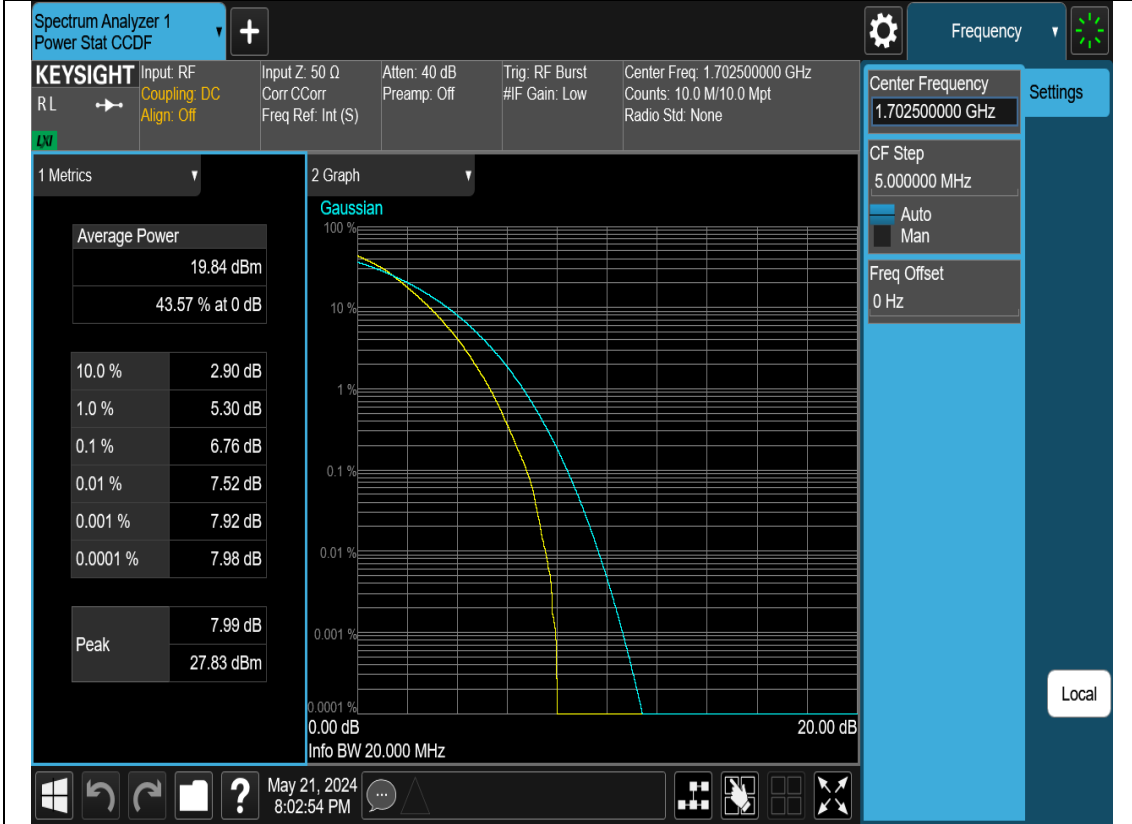
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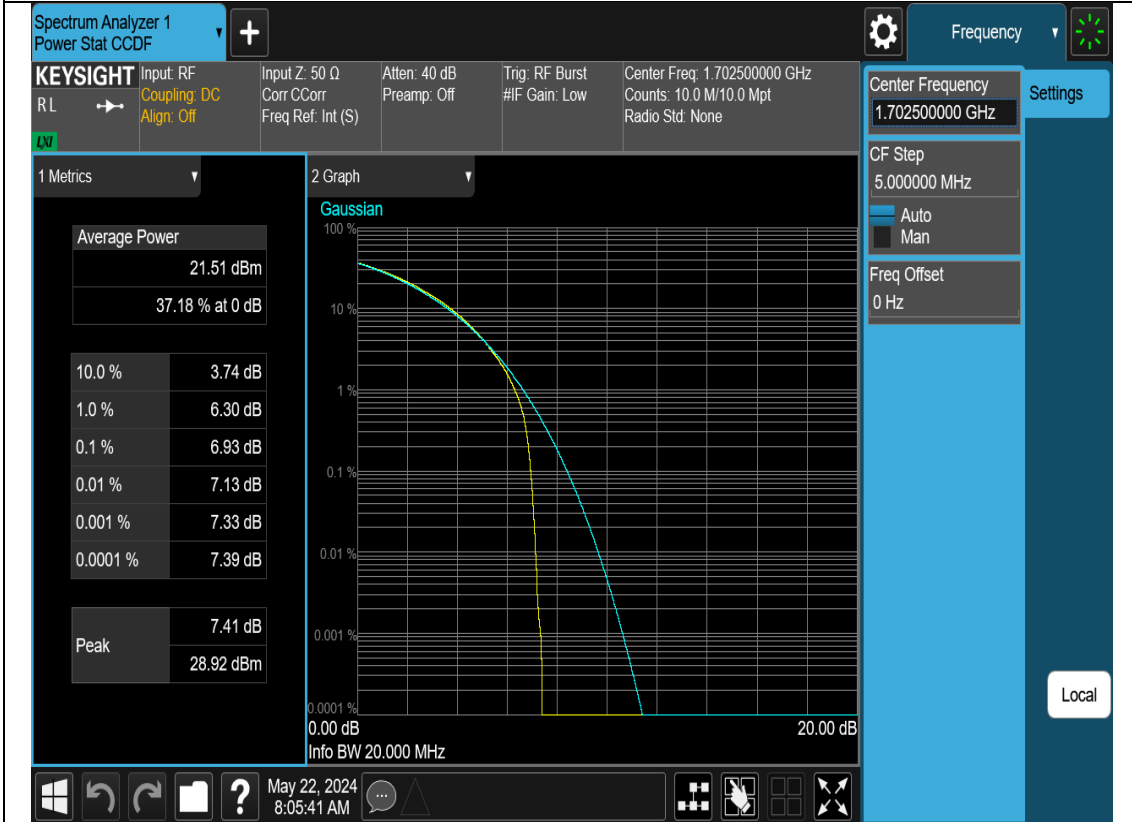
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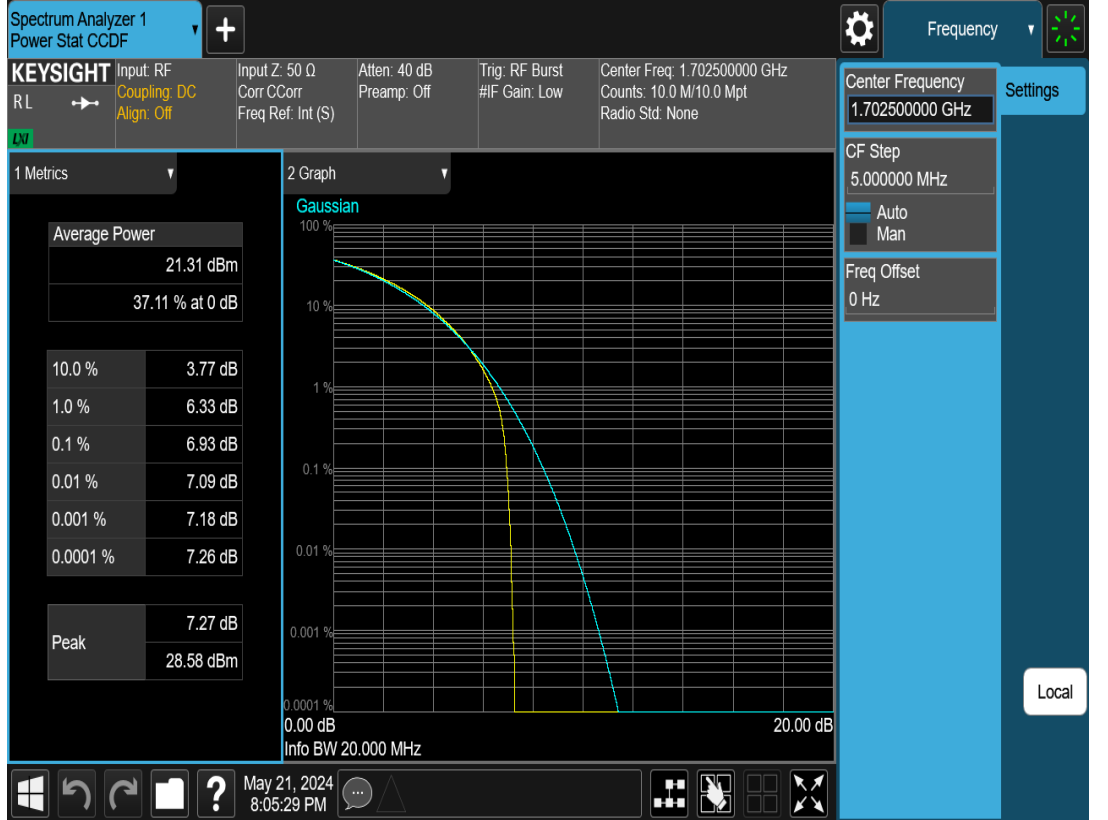
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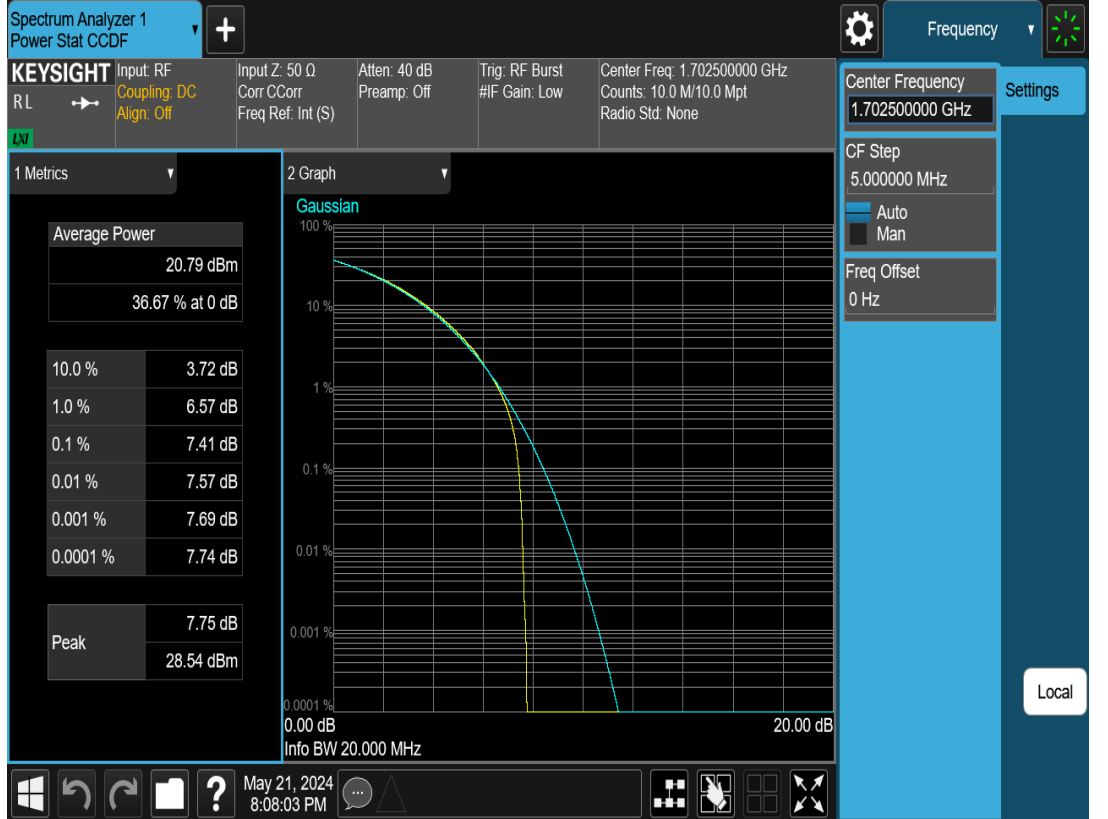
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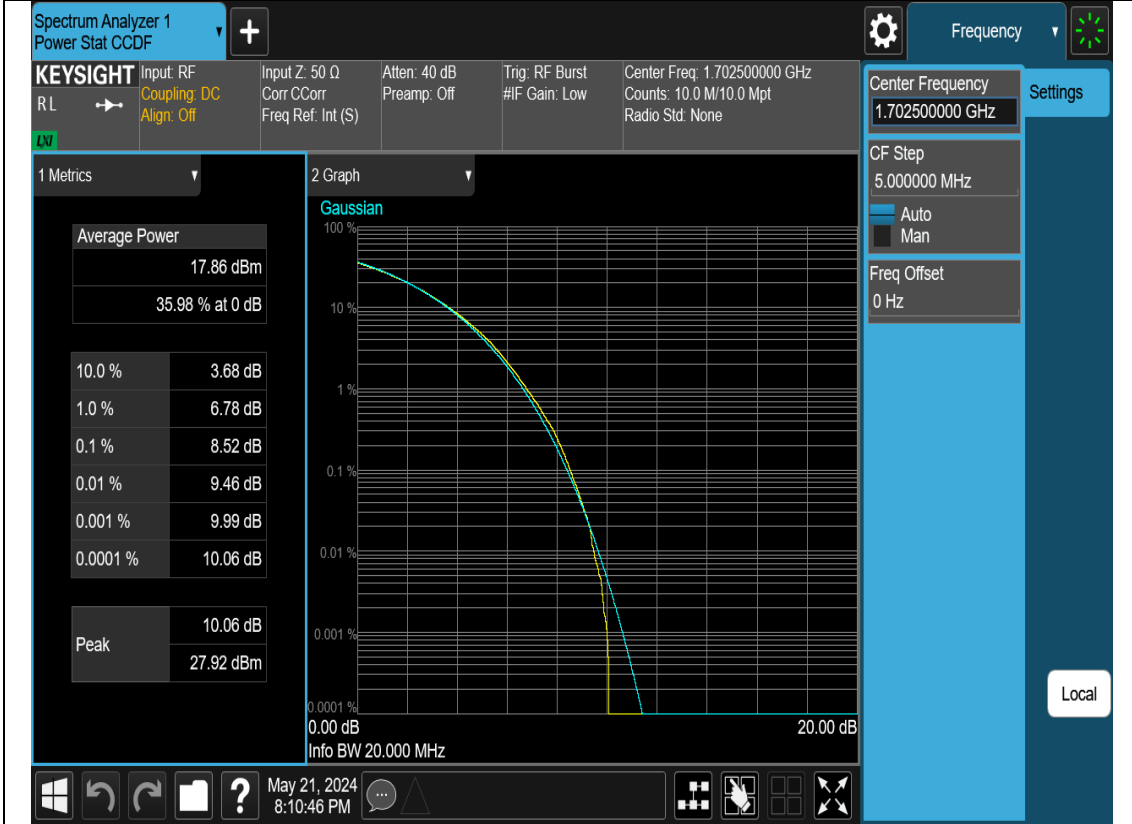
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N70-15M-PAPR-M-CP-OFDM-64QAM-Outer_Full



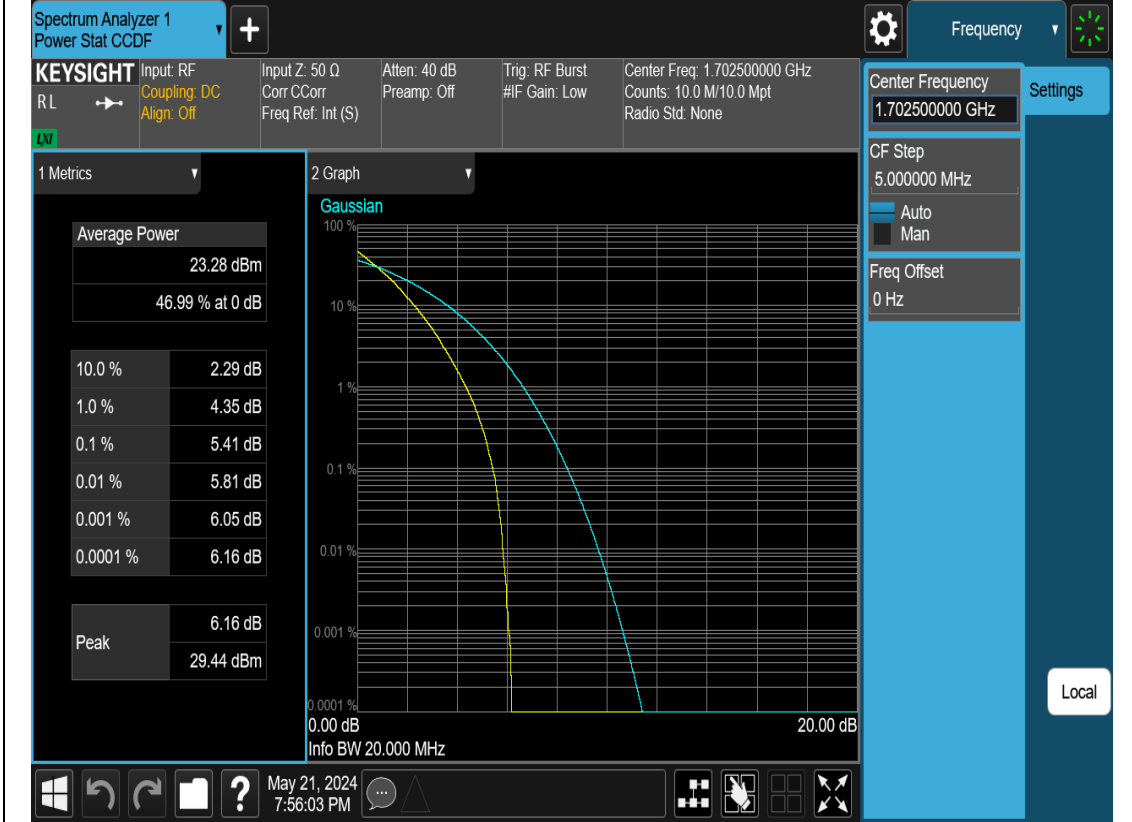
N70-15M-PAPR-M-CP-OFDM-256QAM-Outer_Full



N70-15M-PAPR-H-DFT-s-OFDM-Pi2 BPSK-Outer_Full



N70-15M-PAPR-H-DFT-s-OFDM-QPSK-Outer_Full



N70-15M-PAPR-H-DFT-s-OFDM-16QAM-Outer_Full



N70-15M-PAPR-H-DFT-s-OFDM-64QAM-Outer_Full



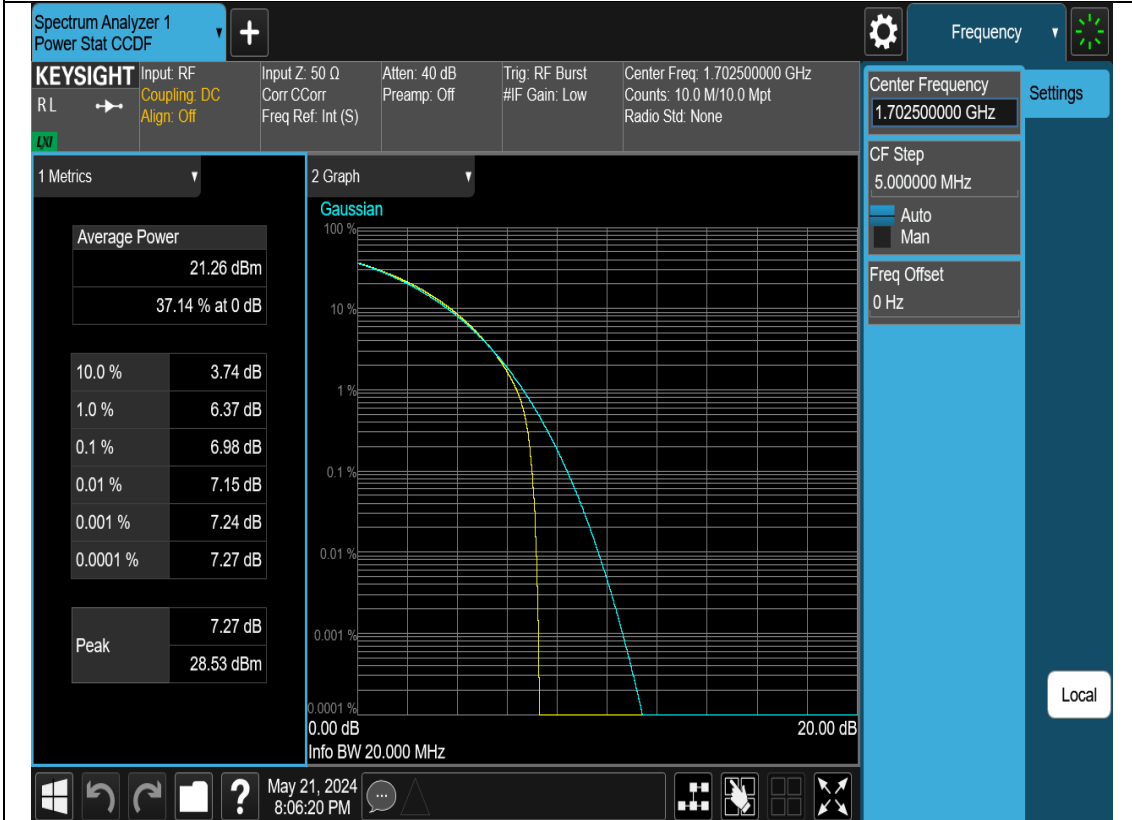
N70-15M-PAPR-H-DFT-s-OFDM-256QAM-Outer_Full



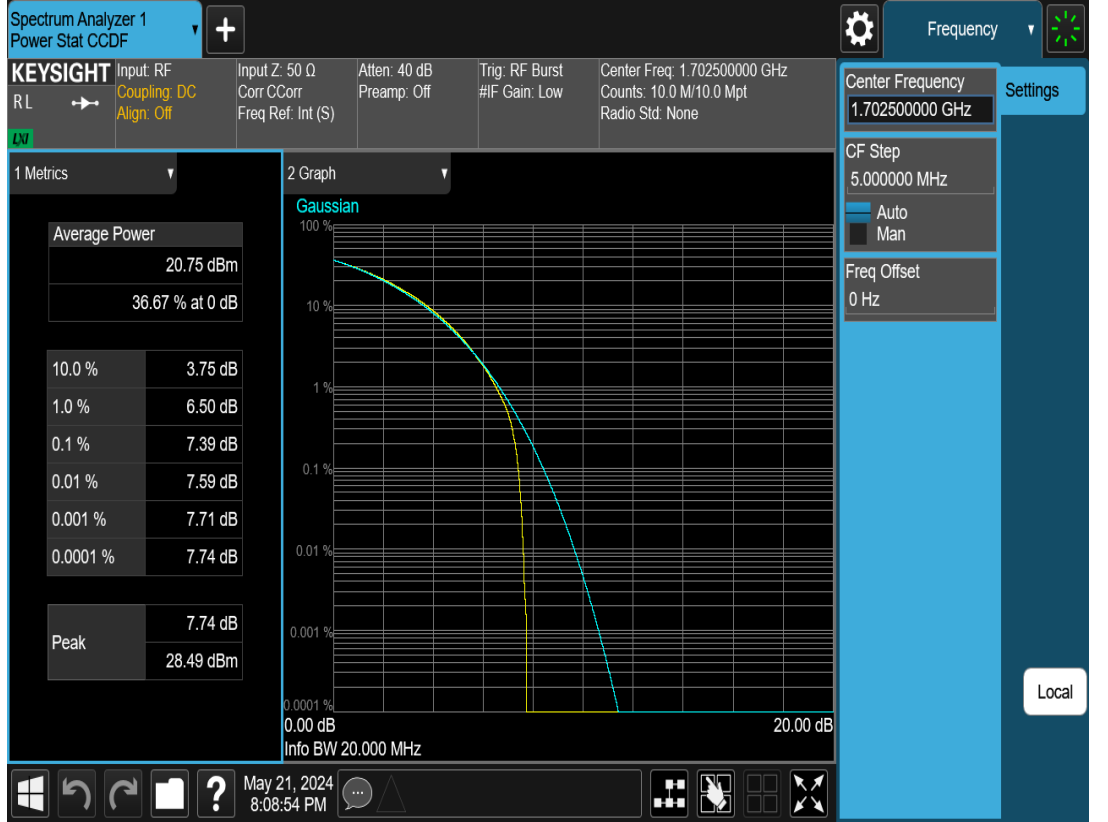
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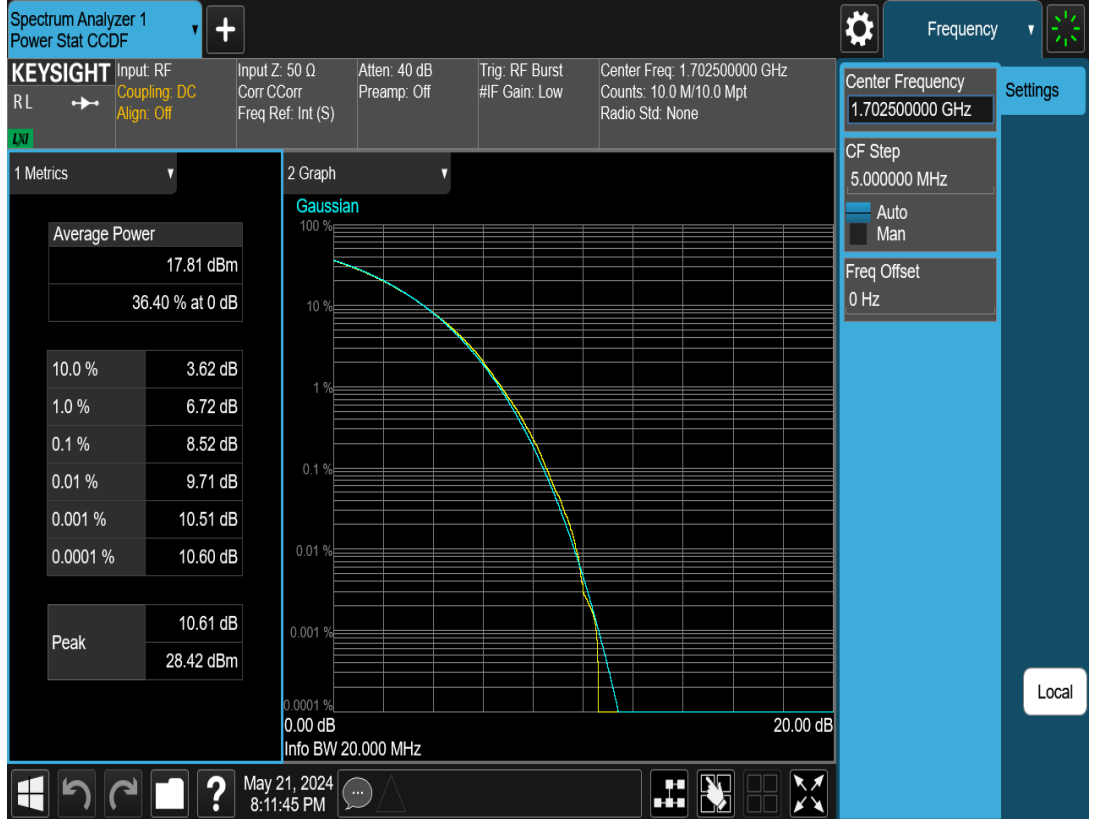
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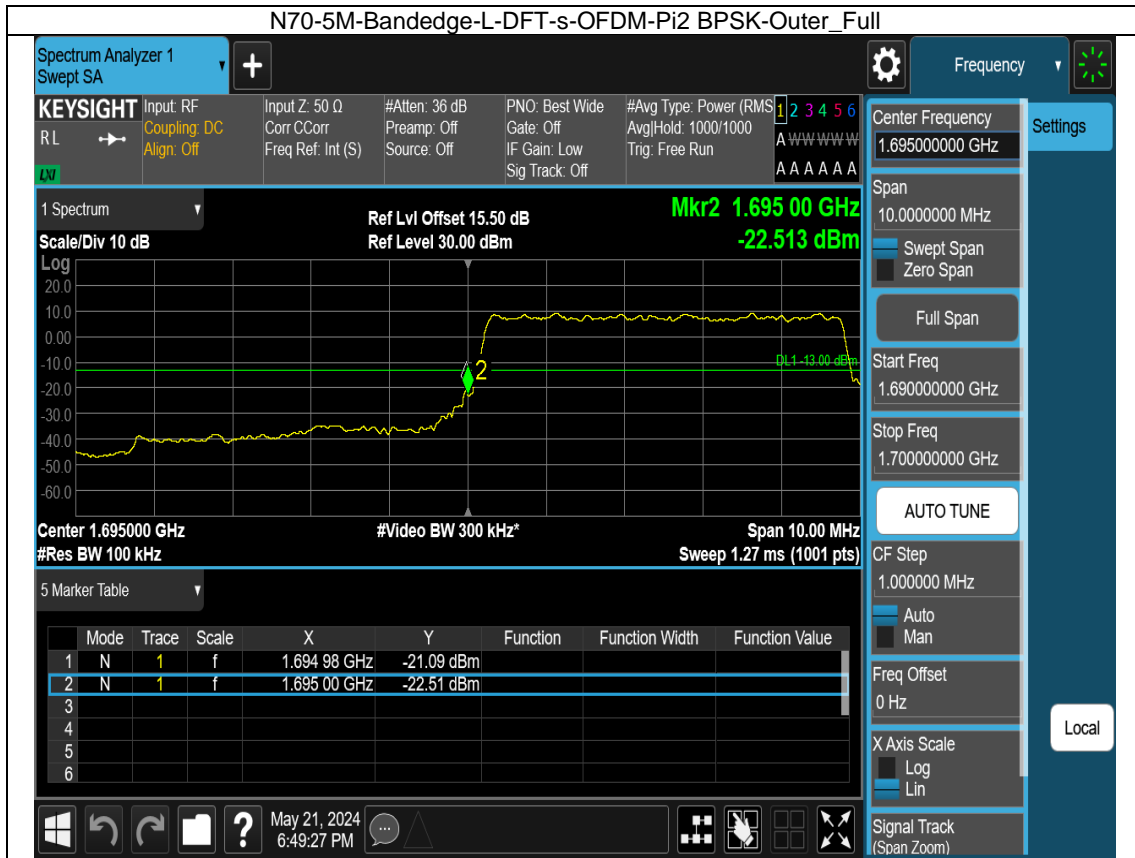
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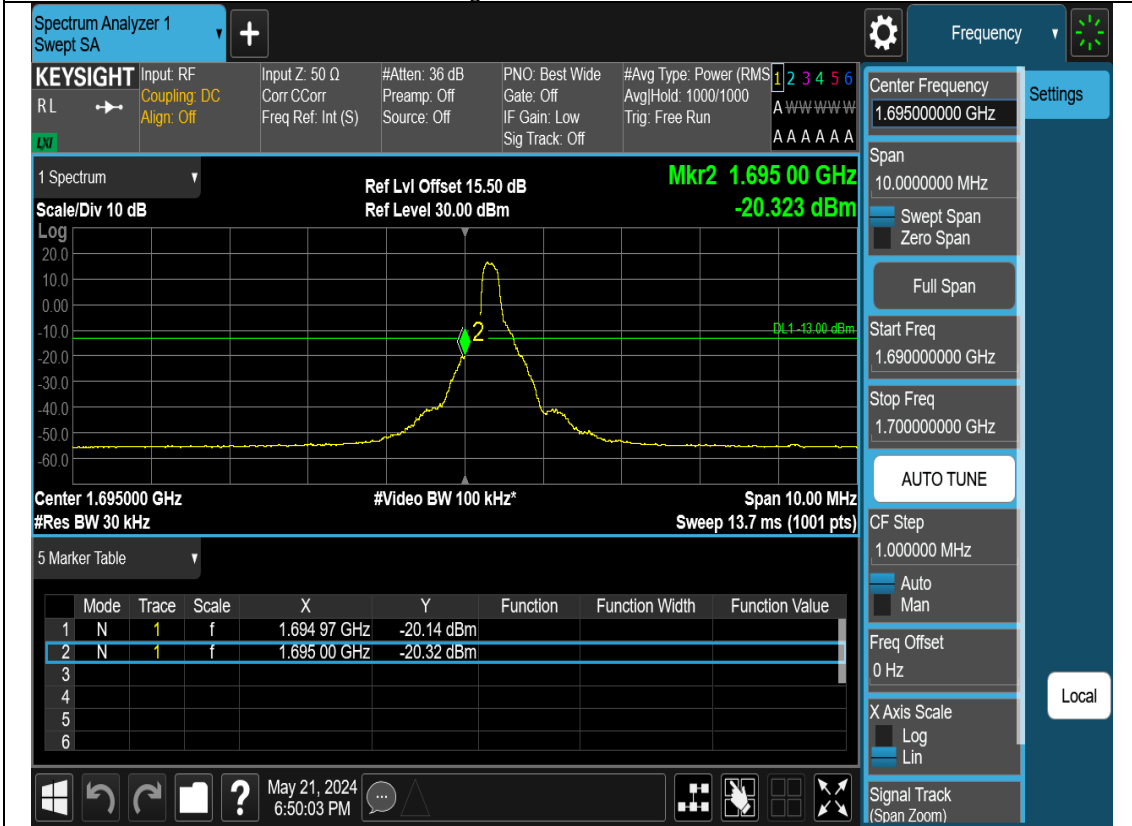
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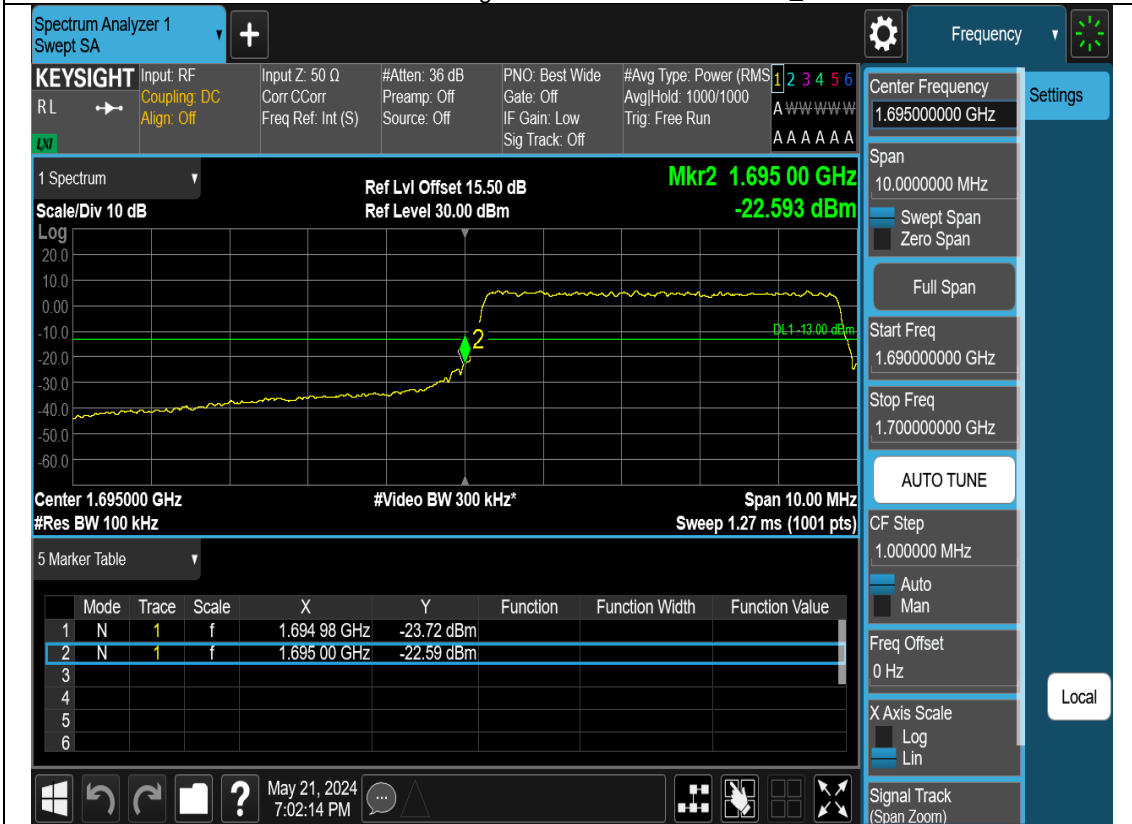
Bandedge test graph



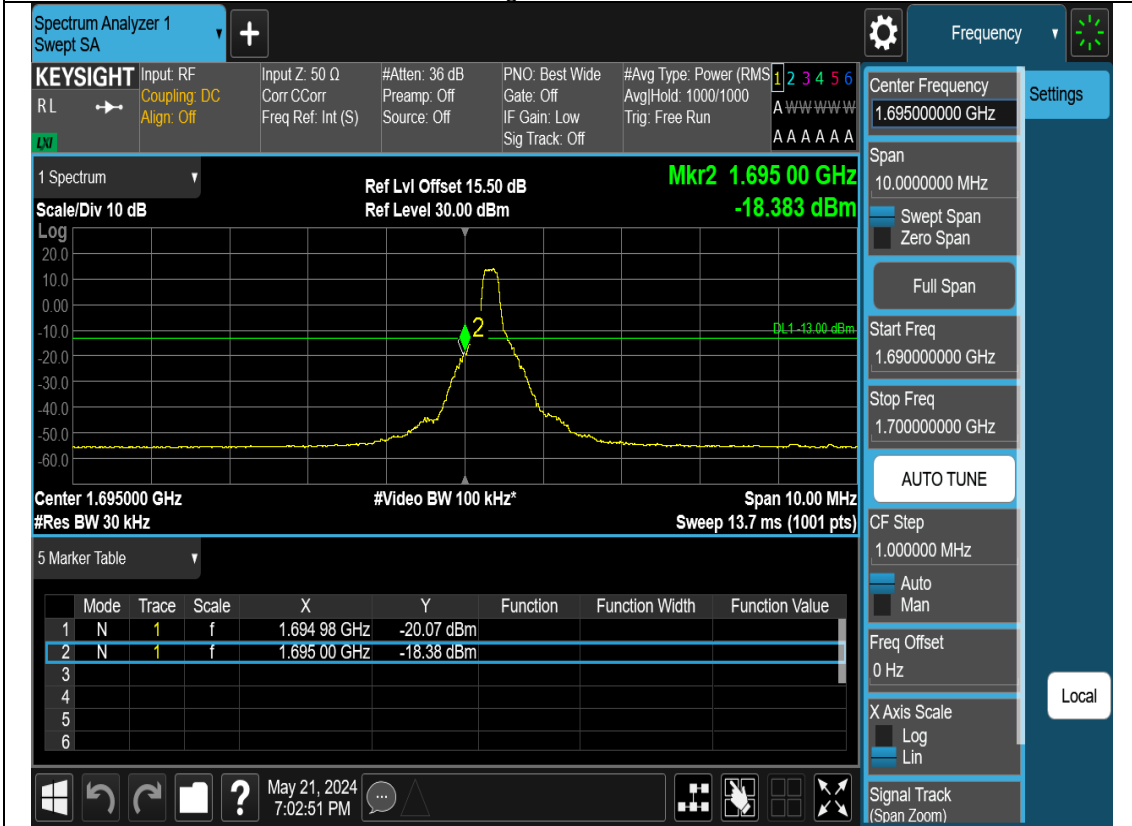
N70-5M-Bandedge-L-DFT-s-OFDM-Pi2 BPSK-1RB0



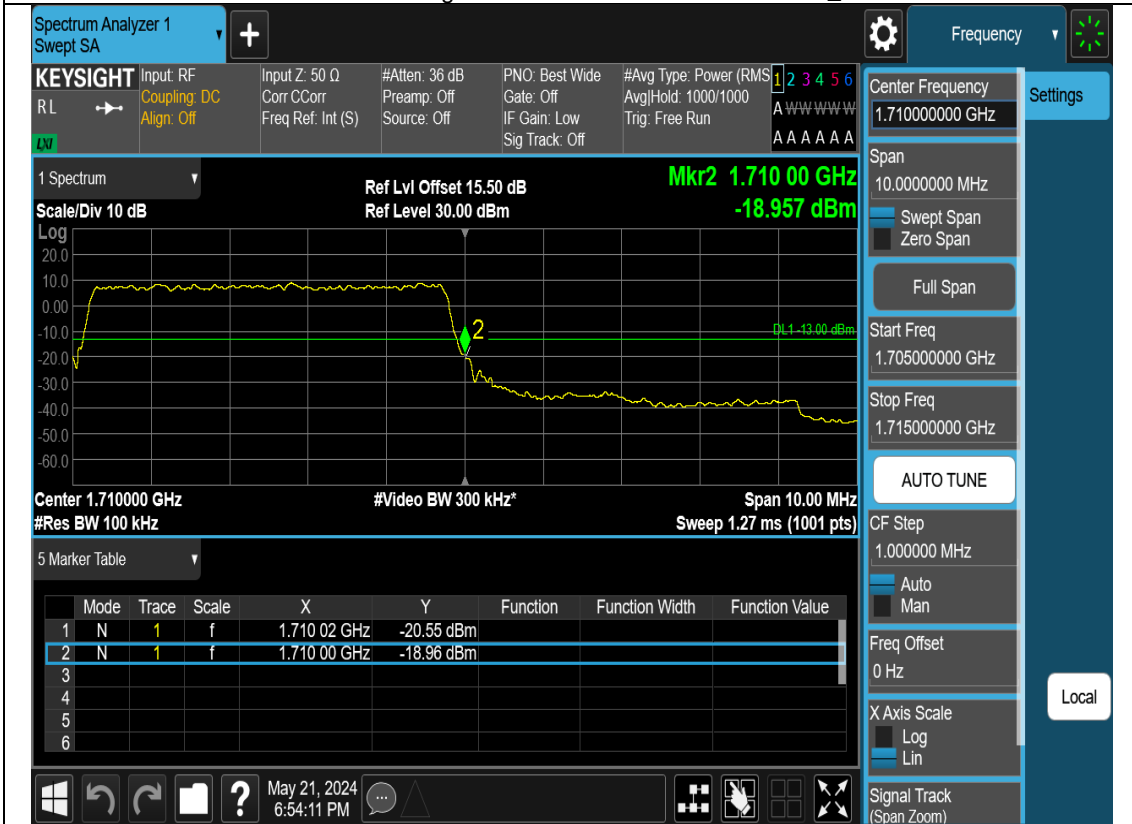
N70-5M-Bandedge-L-CP-OFDM-QPSK-Outer_Full



N70-5M-Bandedge-L-CP-OFDM-QPSK-1RB0



N70-5M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-Outer_Full



N70-5M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-1RB_MAX

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Off

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) AvglHold: 1000/1000 Trig: Free Run

Center Frequency 1.71000000 GHz

Span 10.0000000 MHz

Start Freq 1.705000000 GHz

Stop Freq 1.715000000 GHz

AUTO TUNE

CF Step 1.000000 MHz

Freq Offset 0 Hz

X Axis Scale Log

Signal Track (Span Zoom)

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr2 1.710 00 GHz -18.262 dBm

Scale/Div 10 dB

Log

Center 1.710000 GHz #Res BW 30 kHz #Video BW 100 kHz* Span 10.00 MHz Sweep 13.7 ms (1001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.710 02 GHz	-19.72 dBm		
2	N	1	f	1.710 00 GHz	-18.26 dBm		
3							
4							
5							
6							

May 21, 2024 6:56:09 PM

N70-5M-Bandedge-H-CP-OFDM-QPSK-Outer_Full

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Off

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) AvglHold: 1000/1000 Trig: Free Run

Center Frequency 1.71000000 GHz

Span 10.0000000 MHz

Start Freq 1.705000000 GHz

Stop Freq 1.715000000 GHz

AUTO TUNE

CF Step 1.000000 MHz

Freq Offset 0 Hz

X Axis Scale Log

Signal Track (Span Zoom)

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr2 1.710 00 GHz -21.660 dBm

Scale/Div 10 dB

Log

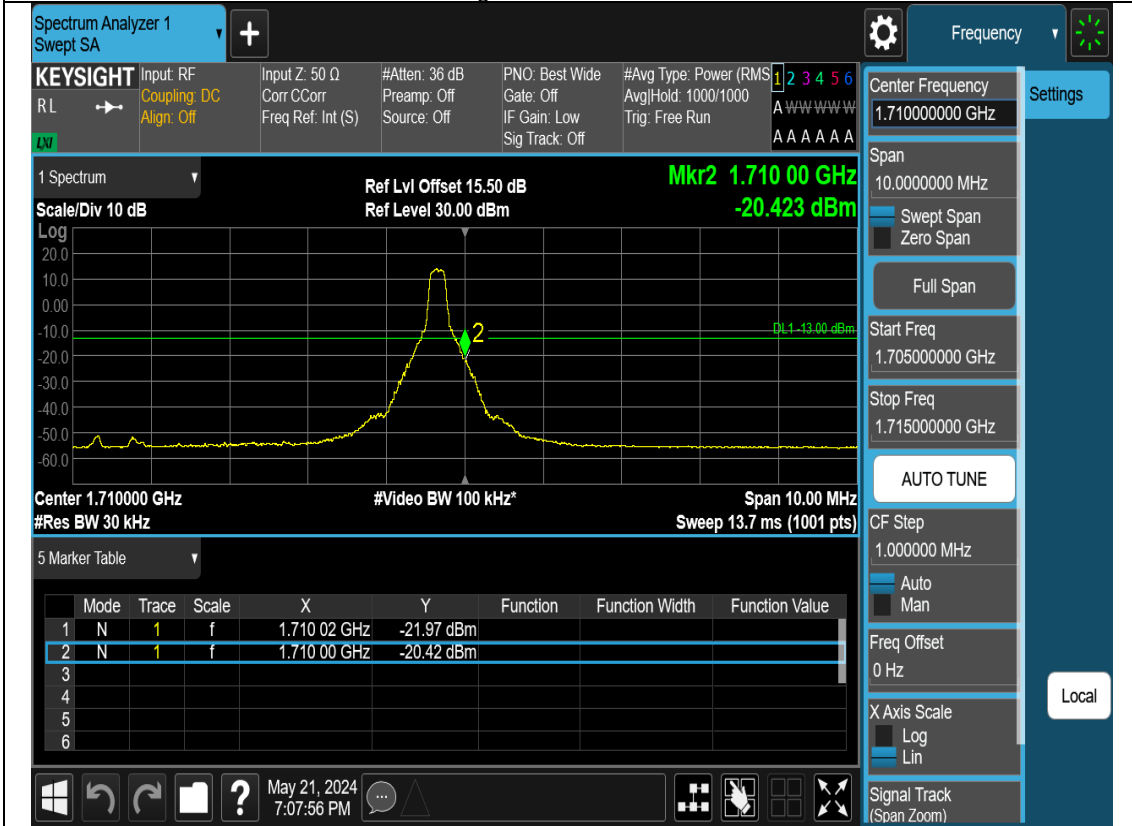
Center 1.710000 GHz #Res BW 100 kHz #Video BW 300 kHz* Span 10.00 MHz Sweep 1.27 ms (1001 pts)

5 Marker Table

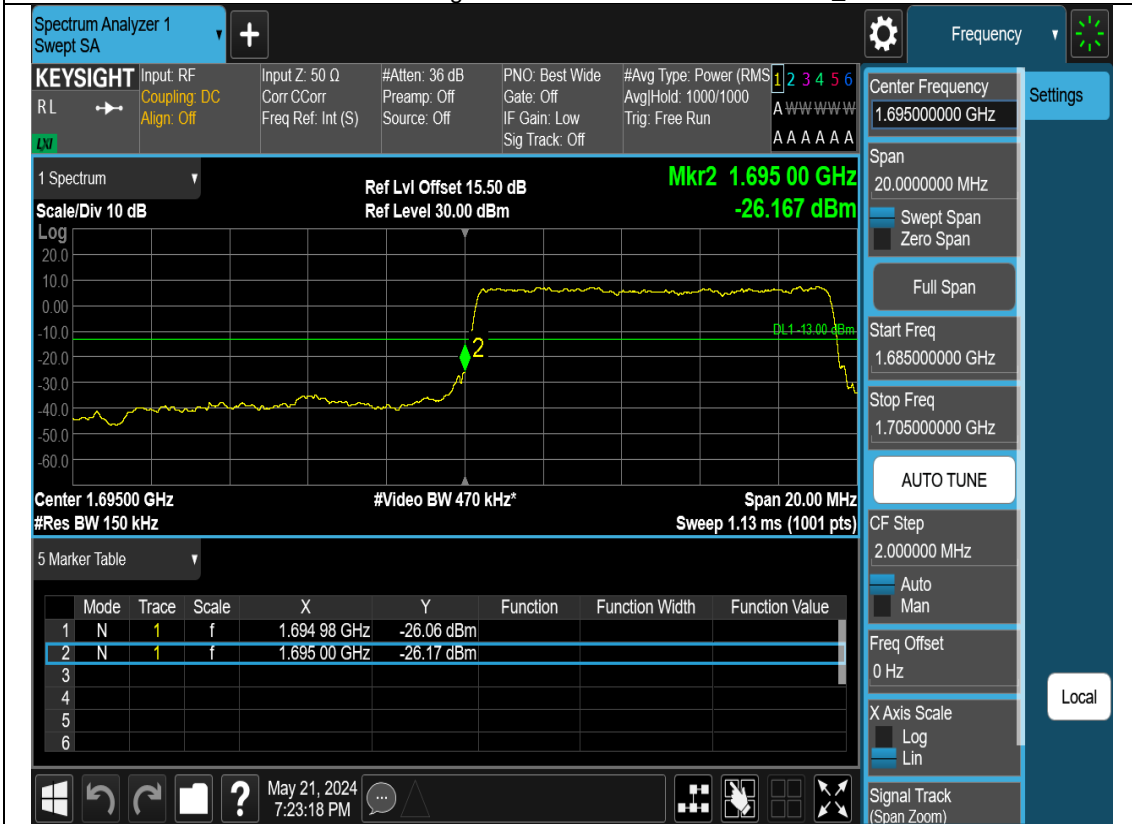
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.710 02 GHz	-20.79 dBm		
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3							
4							
5							
6							

May 21, 2024 7:07:14 PM

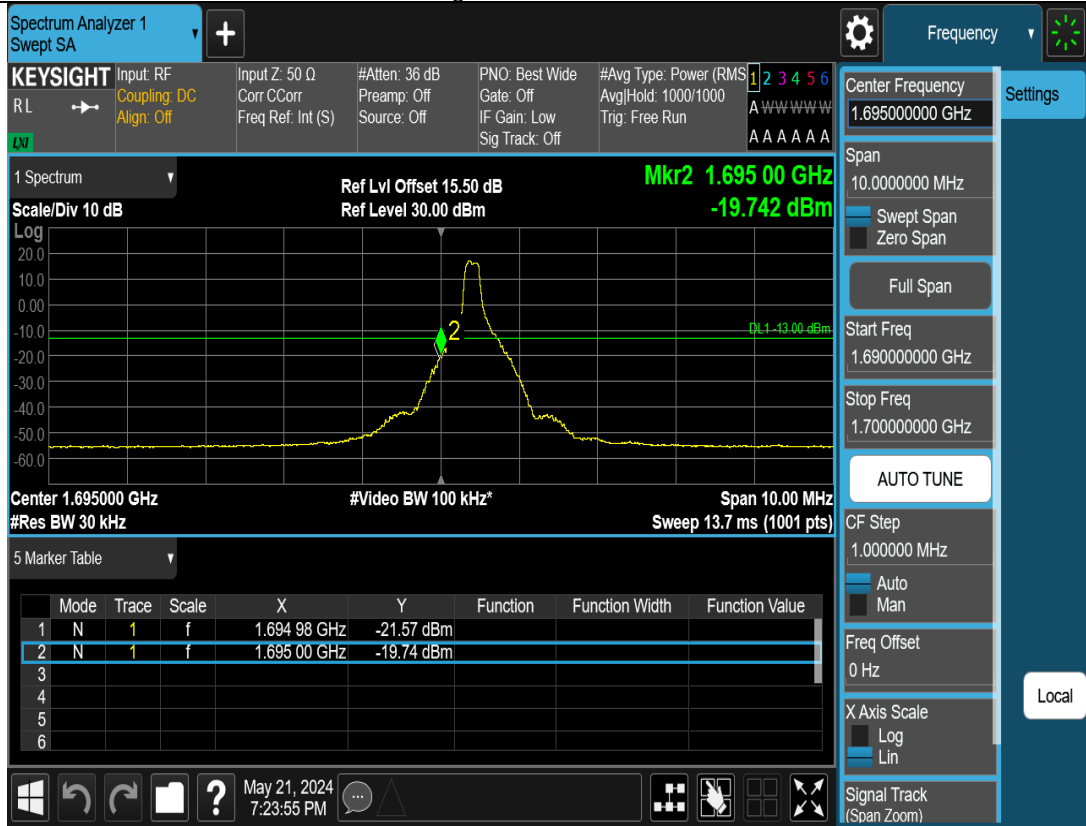
N70-5M-Bandedge-H-CP-OFDM-QPSK-1RB_MAX



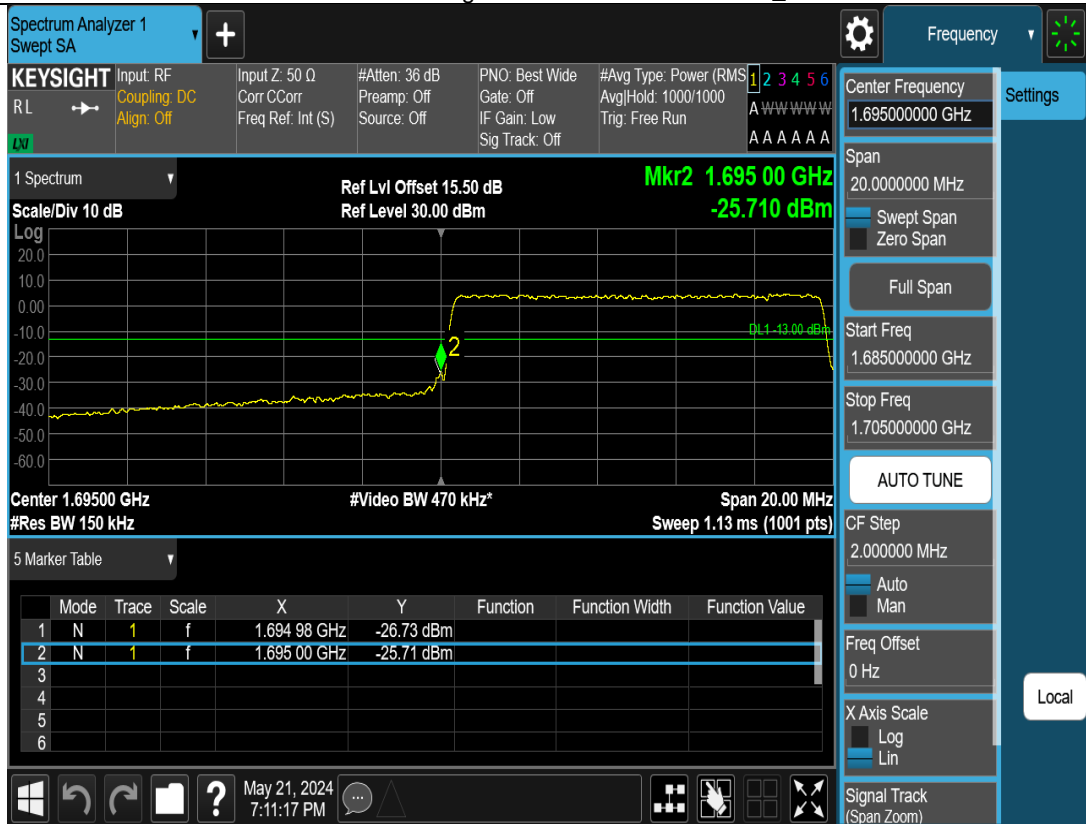
N70-10M-Bandedge-L-DFT-s-OFDM-Pi2 BPSK-Outer_Full



N70-10M-Bandedge-L-DFT-s-OFDM-Pi2 BPSK-1RB0



N70-10M-Bandedge-L-CP-OFDM-QPSK-Outer_Full



N70-10M-Bandedge-L-CP-OFDM-QPSK-1RB0

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Off

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 1000/1000 Trig: Free Run

Center Frequency 1.69500000 GHz

Span 10.000000 MHz

Start Freq 1.69000000 GHz

Stop Freq 1.70000000 GHz

AUTO TUNE

CF Step 1.000000 MHz

Freq Offset 0 Hz

X Axis Scale Log

Signal Track (Span Zoom)

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr2 1.695 00 GHz -21.137 dBm

Scale/Div 10 dB

Log

Center 1.695000 GHz #Res BW 30 kHz #Video BW 100 kHz* Sweep 13.7 ms (1001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.694 98 GHz	-22.54 dBm		
2	N	1	f	1.695 00 GHz	-21.14 dBm		
3							
4							
5							
6							

May 21, 2024 7:11:53 PM

N70-10M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-Outer_Full

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Off

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 1000/1000 Trig: Free Run

Center Frequency 1.71000000 GHz

Span 20.000000 MHz

Start Freq 1.70000000 GHz

Stop Freq 1.72000000 GHz

AUTO TUNE

CF Step 2.000000 MHz

Freq Offset 0 Hz

X Axis Scale Log

Signal Track (Span Zoom)

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr2 1.710 00 GHz -32.821 dBm

Scale/Div 10 dB

Log

Center 1.710000 GHz #Res BW 150 kHz #Video BW 470 kHz* Sweep 1.13 ms (1001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.713 60 GHz	-32.56 dBm		
2	N	1	f	1.710 00 GHz	-32.82 dBm		
3							
4							
5							
6							

May 21, 2024 7:28:03 PM

N70-10M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-1RB_MAX

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Off

Input Z: 50 Ω #Atten: 36 dB PNO: Best Wide Gate: Off #Avg Type: Power (RMS) 1 2 3 4 5 6
 Corr: C Corr Freq Ref: Int (S) Preamp: Off Source: Off IF Gain: Low Trig: Free Run Avg/Hold: 1000/1000 A www www www
 Sig Track: Off A A A A A A

Center Frequency 1.71000000 GHz

Span 10.00 MHz

Start Freq 1.705000000 GHz

Stop Freq 1.715000000 GHz

AUTO TUNE

CF Step 1.000000 MHz

Freq Offset 0 Hz

X Axis Scale Log Lin

Signal Track (Span Zoom)

Settings Local

1 Spectrum Scale/Div 10 dB Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm Mkr2 1.710 00 GHz -20.473 dBm

Center 1.710000 GHz #Video BW 100 kHz* Span 10.00 MHz #Res BW 30 kHz Sweep 13.7 ms (1001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.710 02 GHz	-21.32 dBm		
2	N	1	f	1.710 00 GHz	-20.47 dBm		
3							
4							
5							
6							

May 21, 2024 7:29:56 PM

N70-10M-Bandedge-H-CP-OFDM-QPSK-Outer_Full

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Off

Input Z: 50 Ω #Atten: 36 dB PNO: Best Wide Gate: Off #Avg Type: Power (RMS) 1 2 3 4 5 6
 Corr: C Corr Freq Ref: Int (S) Preamp: Off Source: Off IF Gain: Low Trig: Free Run Avg/Hold: 1000/1000 A www www www
 Sig Track: Off A A A A A A

Center Frequency 1.71000000 GHz

Span 20.00 MHz

Start Freq 1.700000000 GHz

Stop Freq 1.720000000 GHz

AUTO TUNE

CF Step 2.000000 MHz

Freq Offset 0 Hz

X Axis Scale Log Lin

Signal Track (Span Zoom)

Settings Local

1 Spectrum Scale/Div 10 dB Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm Mkr2 1.710 00 GHz -26.253 dBm

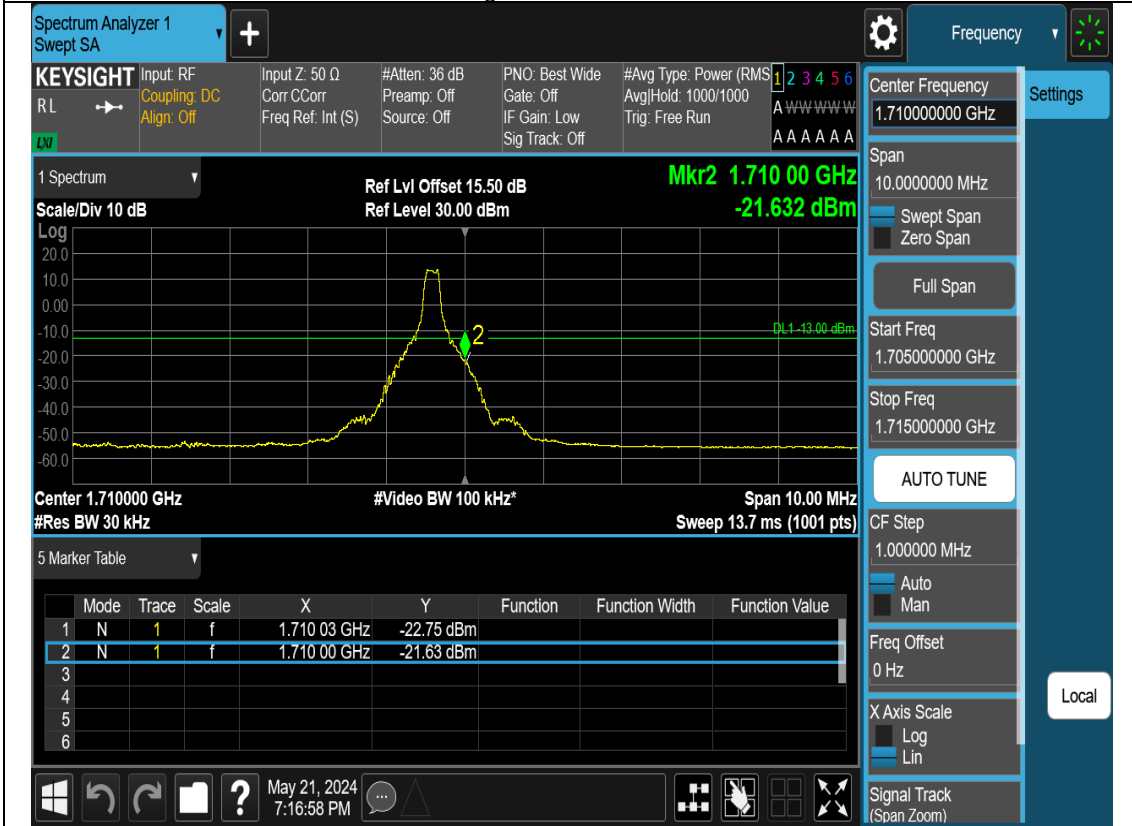
Center 1.710000 GHz #Video BW 470 kHz* Span 20.00 MHz #Res BW 150 kHz Sweep 1.13 ms (1001 pts)

5 Marker Table

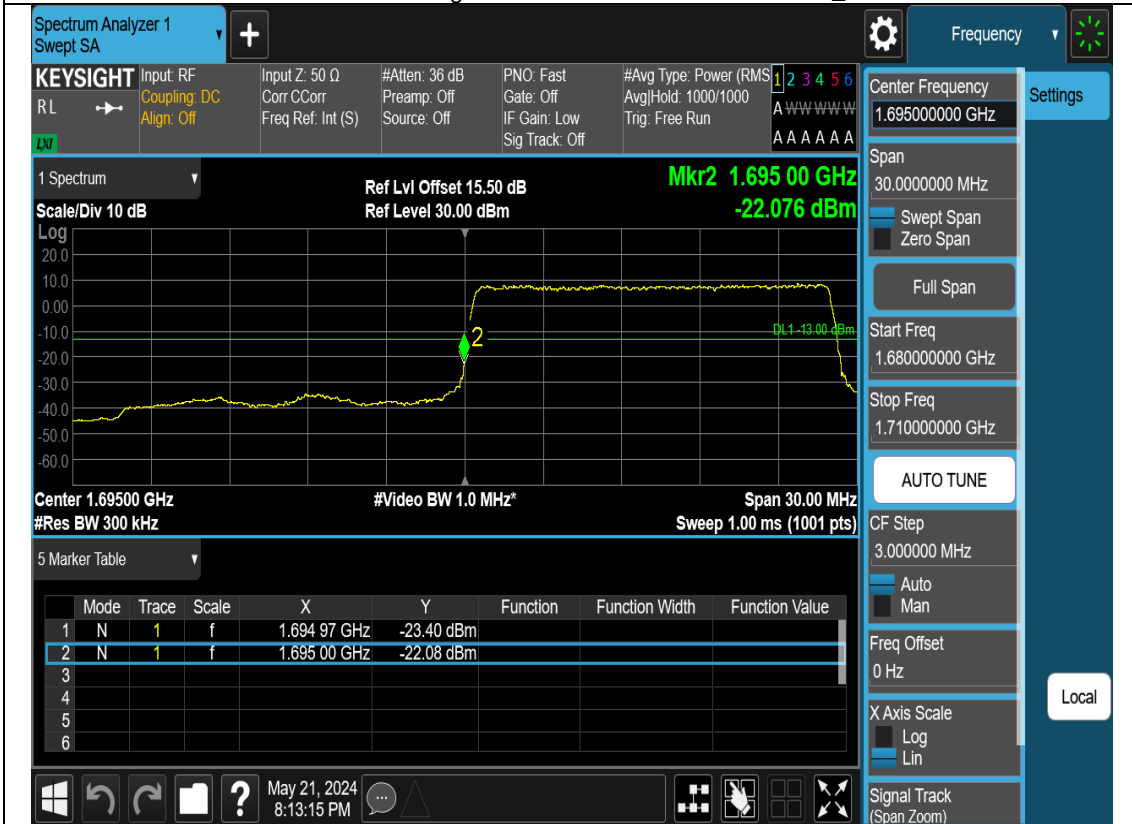
Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.710 02 GHz	-28.39 dBm		
2	N	1	f	1.710 00 GHz	-26.25 dBm		
3							
4							
5							
6							

May 21, 2024 7:16:16 PM

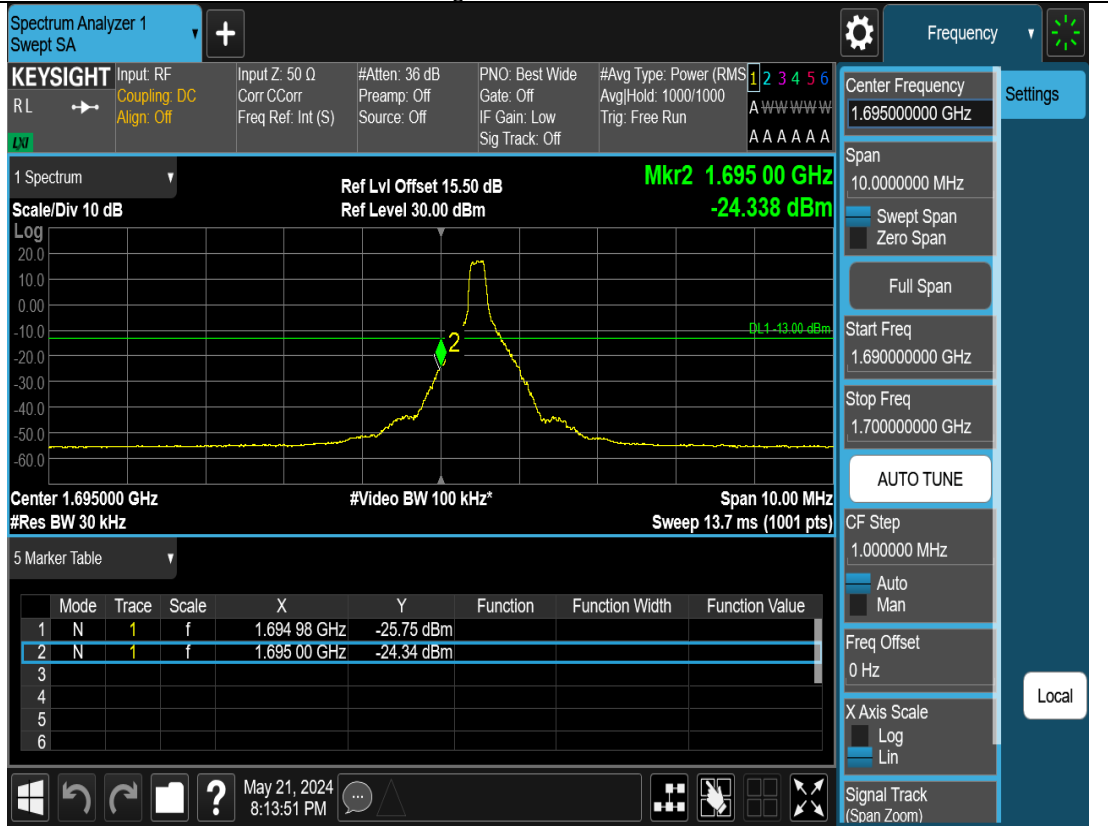
N70-10M-Bandedge-H-CP-OFDM-QPSK-1RB_MAX



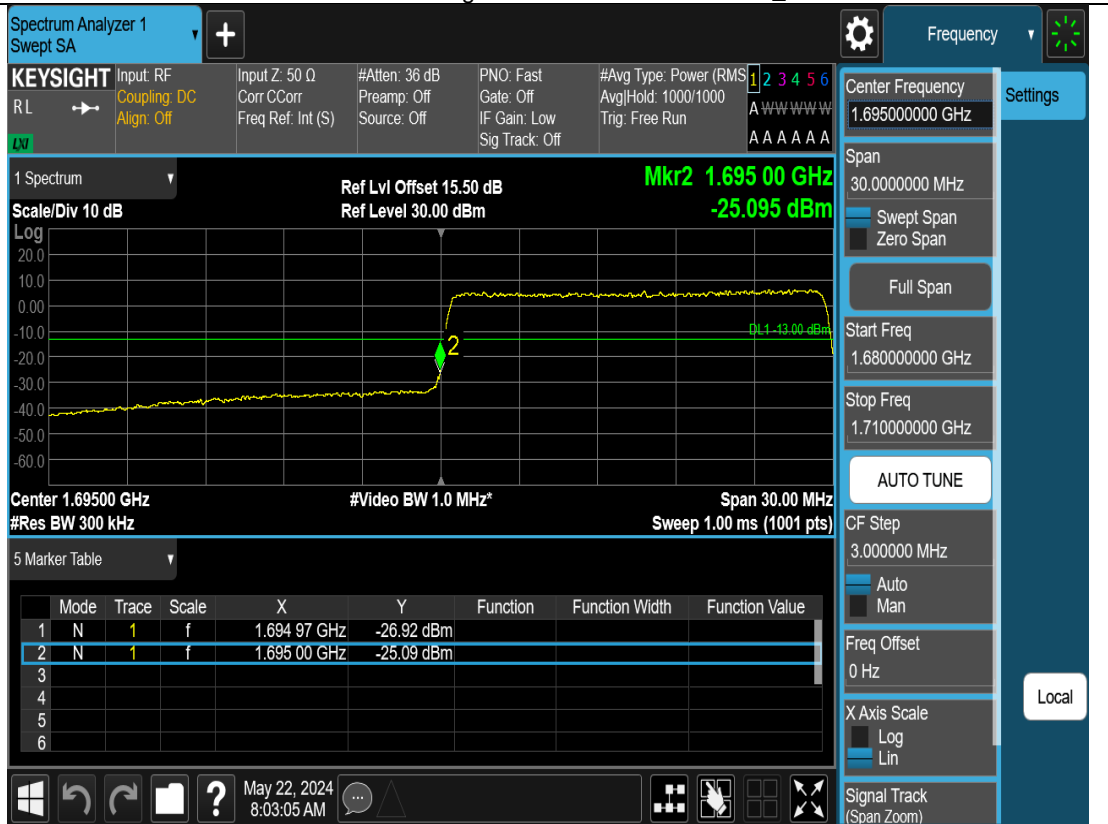
N70-15M-Bandedge-L-DFT-s-OFDM-Pi2 BPSK-Outer_Full



N70-15M-Bandedge-L-DFT-s-OFDM-Pi2 BPSK-1RB0



N70-15M-Bandedge-L-CP-OFDM-QPSK-Outer_Full



N70-15M-Bandedge-L-CP-OFDM-QPSK-1RB0

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Off

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 1000/1000 Trig: Free Run

Center Frequency 1.69500000 GHz

Span 10.000000 MHz

Start Freq 1.69000000 GHz

Stop Freq 1.70000000 GHz

AUTO TUNE

CF Step 1.000000 MHz

Freq Offset 0 Hz

X Axis Scale Lin

Signal Track (Span Zoom)

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr2 1.695 00 GHz -24.298 dBm

Scale/Div 10 dB

Log

Center 1.695000 GHz #Res BW 30 kHz #Video BW 100 kHz* Sweep 13.7 ms (1001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.694 97 GHz	-25.74 dBm		
2	N	1	f	1.695 00 GHz	-24.30 dBm		
3							
4							
5							
6							

May 22, 2024 8:03:42 AM

N70-15M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-Outer_Full

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Off

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Avg/Hold: 1000/1000 Trig: Free Run

Center Frequency 1.71000000 GHz

Span 30.000000 MHz

Start Freq 1.69500000 GHz

Stop Freq 1.72500000 GHz

AUTO TUNE

CF Step 3.000000 MHz

Freq Offset 0 Hz

X Axis Scale Lin

Signal Track (Span Zoom)

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr2 1.710 00 GHz -34.135 dBm

Scale/Div 10 dB

Log

Center 1.710000 GHz #Res BW 300 kHz #Video BW 1.0 MHz* Sweep 1.00 ms (1001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.714 89 GHz	-33.50 dBm		
2	N	1	f	1.710 00 GHz	-34.14 dBm		
3							
4							
5							
6							

May 21, 2024 8:17:59 PM

N70-15M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-1RB_MAX

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Off

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) 1 2 3 4 5 6 Avg/Hold: 1000/1000 Trig: Free Run A A A A A A

Center Frequency 1.71000000 GHz

Span 10.000000 MHz

Start Freq 1.705000000 GHz

Stop Freq 1.715000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr2 1.710 00 GHz -23.612 dBm

DL1 -13.00 dBm

Center 1.710000 GHz #Video BW 100 kHz* Span 10.00 MHz #Res BW 30 kHz Sweep 13.7 ms (1001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.710 03 GHz	-24.34 dBm		
2	N	1	f	1.710 00 GHz	-23.61 dBm		
3							
4							
5							
6							

May 21, 2024 8:18:49 PM

N70-15M-Bandedge-H-CP-OFDM-QPSK-Outer_Full

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Coupling: DC Align: Off

Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 36 dB Preamp: Off Source: Off PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) 1 2 3 4 5 6 Avg/Hold: 1000/1000 Trig: Free Run A A A A A A

Center Frequency 1.71000000 GHz

Span 30.000000 MHz

Start Freq 1.695000000 GHz

Stop Freq 1.725000000 GHz

Scale/Div 10 dB

Ref Lvl Offset 15.50 dB Ref Level 30.00 dBm

Mkr2 1.710 00 GHz -20.456 dBm

DL1 -13.00 dBm

Center 1.710000 GHz #Video BW 1.0 MHz* Span 30.00 MHz #Res BW 300 kHz Sweep 1.00 ms (1001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.710 03 GHz	-23.41 dBm		
2	N	1	f	1.710 00 GHz	-20.46 dBm		
3							
4							
5							
6							

May 22, 2024 8:08:05 AM

N70-15M-Bandedge-H-CP-OFDM-QPSK-1RB_MAX

Spectrum Analyzer 1
Swept SA

KEYSIGHT Input: RF
RL → Coupling: DC
Align: Off

Input Z: 50 Ω #Atten: 36 dB PNO: Best Wide #Avg Type: Power (RMS) 1 2 3 4 5 6
 Corr: C Corr Preamp: Off Gate: Off Avg/Hold: 1000/1000
 Freq Ref: Int (S) Source: Off IF Gain: Low Trig: Free Run
 Sig Track: Off

Frequency

Center Frequency
1.71000000 GHz

Span
10.0000000 MHz

Swept Span
Zero Span

Full Span

Start Freq
1.705000000 GHz

Stop Freq
1.715000000 GHz

AUTO TUNE

CF Step
1.000000 MHz

Auto
Man

Freq Offset
0 Hz

X Axis Scale
Log
Lin

Signal Track
(Span Zoom)

1 Spectrum Ref Lvl Offset 15.50 dB **Mkr2 1.710 00 GHz**
 Scale/Div 10 dB Ref Level 30.00 dBm **-24.650 dBm**

Center 1.710000 GHz #Video BW 100 kHz* Span 10.00 MHz
 #Res BW 30 kHz Sweep 13.7 ms (1001 pts)

5 Marker Table

	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.710 02 GHz	-25.36 dBm			
2	N	1	f	1.710 00 GHz	-24.65 dBm			
3								
4								
5								
6								

Windows
Home
Refresh
File Explorer
Help

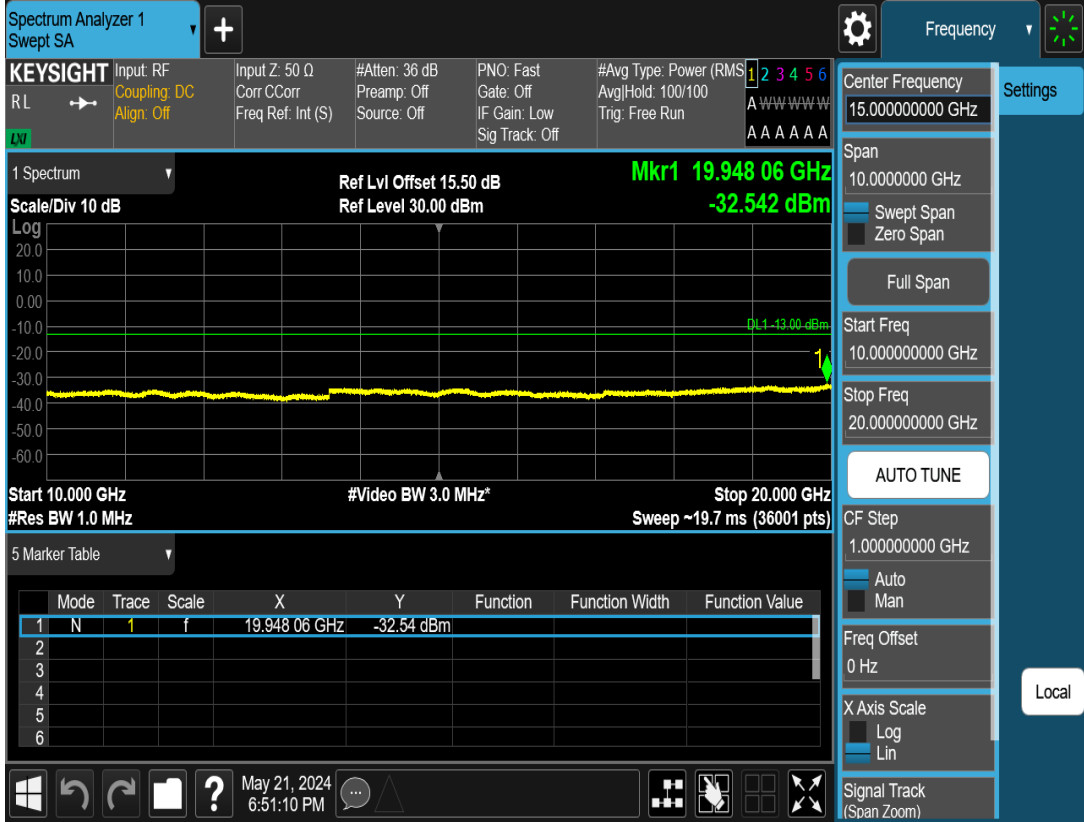
May 22, 2024
8:08:48 AM

Grid
Zoom
Zoom In
Zoom Out

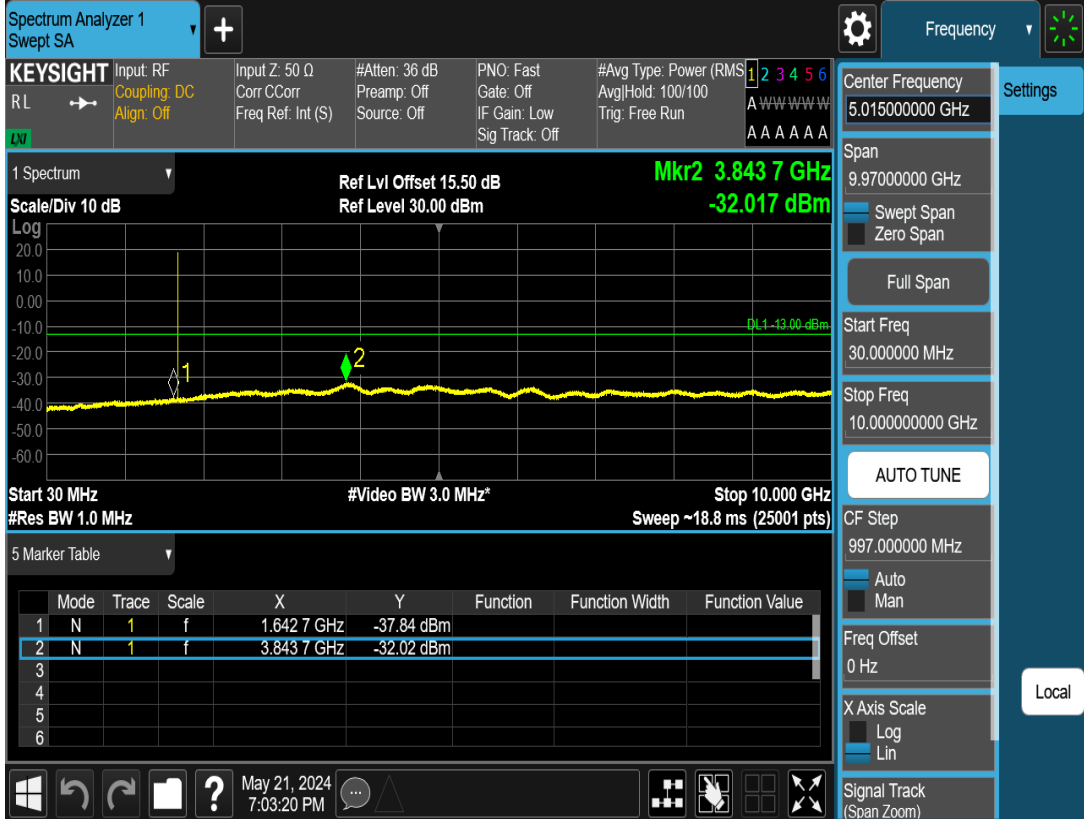
Conducted spurious emissions test graph



N70-5M-CSE-L-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-20GHz



N70-5M-CSE-L-CP-OFDM-QPSK-1RB0-30MHz-10GHz



N70-5M-CSE-L-CP-OFDM-QPSK-1RB0-10GHz-20GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Input Z: 50 Ω #Atten: 36 dB PNO: Fast #Avg Type: Power (RMS) 1 2 3 4 5 6
 RL Coupling: DC Corr CCorr Preamp: Off Gate: Off Avg/Hold: 100/100 A www www www
 Align: Off Freq Ref: Int (S) Source: Off IF Gain: Low Trig: Free Run A A A A A A

Center Frequency 15.000000000 GHz Settings

Span 10.0000000 GHz
 Swept Span
 Zero Span
 Full Span

Start Freq 10.000000000 GHz
 Stop Freq 20.000000000 GHz
 AUTO TUNE

CF Step 1.000000000 GHz
 Auto
 Man
 Freq Offset 0 Hz
 X Axis Scale Log Lin
 Signal Track (Span Zoom)

1 Spectrum Ref Lvl Offset 15.50 dB Mkr1 19.960 28 GHz
 Scale/Div 10 dB Ref Level 30.00 dBm -32.651 dBm

Log 20.0
 10.0
 0.00
 -10.0
 -20.0
 -30.0
 -40.0
 -50.0
 -60.0

Start 10.000 GHz #Video BW 3.0 MHz* Stop 20.000 GHz
 #Res BW 1.0 MHz Sweep ~19.7 ms (36001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	19.960 28 GHz			-32.65 dBm
2							
3							
4							
5							
6							

May 21, 2024 7:03:57 PM

N70-5M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input RF Input Z: 50 Ω #Atten: 36 dB PNO: Fast #Avg Type: Power (RMS) 1 2 3 4 5 6
 RL Coupling: DC Corr CCorr Preamp: Off Gate: Off Avg/Hold: 100/100 A www www www
 Align: Off Freq Ref: Int (S) Source: Off IF Gain: Low Trig: Free Run A A A A A A

Center Frequency 5.015000000 GHz Settings

Span 9.970000000 GHz
 Swept Span
 Zero Span
 Full Span

Start Freq 30.0000000 MHz
 Stop Freq 10.000000000 GHz
 AUTO TUNE

CF Step 997.0000000 MHz
 Auto
 Man
 Freq Offset 0 Hz
 X Axis Scale Log Lin
 Signal Track (Span Zoom)

1 Spectrum Ref Lvl Offset 15.50 dB Mkr2 3.828 6 GHz
 Scale/Div 10 dB Ref Level 30.00 dBm -31.778 dBm

Log 20.0
 10.0
 0.00
 -10.0
 -20.0
 -30.0
 -40.0
 -50.0
 -60.0

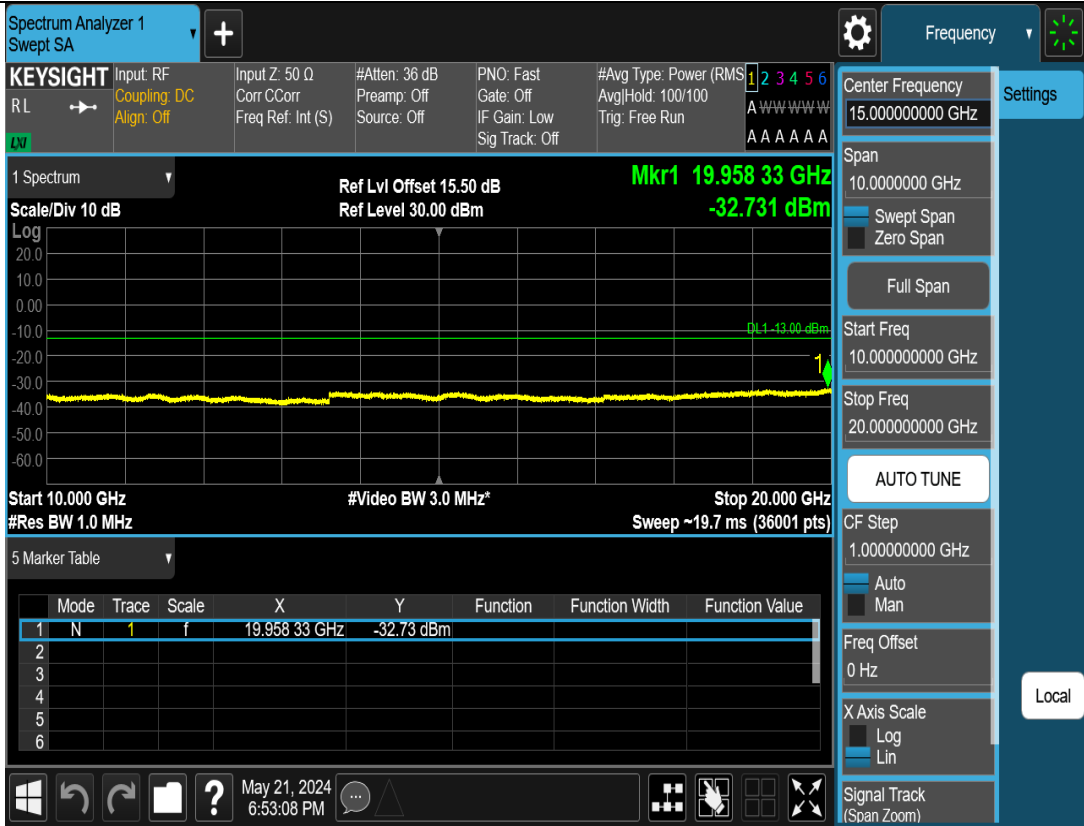
Start 30 MHz #Video BW 3.0 MHz* Stop 10.000 GHz
 #Res BW 1.0 MHz Sweep ~18.8 ms (25001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	1.678 6 GHz			-38.02 dBm
2	N	1	f	3.828 6 GHz			-31.78 dBm
3							
4							
5							
6							

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N70-5M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-20GHz



N70-5M-CSE-M-CP-OFDM-QPSK-1RB0-30MHz-10GHz

