

99% & 26dB Bandwidth

Test Result

5G NR N7 SCS=15kHz 5MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	4.5	5.13	/	Pass
CP-OFDM QPSK		Outer_Full	4.51	5.34	/	Pass
DFT-s-OFDM PI/2 BPSK	Mid	Outer_Full	4.5	5.1	/	Pass
CP-OFDM QPSK		Outer_Full	4.5	5.31	/	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	4.5	5.12	/	Pass
CP-OFDM QPSK		Outer_Full	4.5	5.24	/	Pass

5G NR N7 SCS=15kHz 10MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	8.94	9.73	/	Pass
CP-OFDM QPSK		Outer_Full	9.3	10.18	/	Pass
DFT-s-OFDM PI/2 BPSK	Mid	Outer_Full	8.94	9.59	/	Pass
CP-OFDM QPSK		Outer_Full	9.31	10.14	/	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	8.95	9.69	/	Pass
CP-OFDM QPSK		Outer_Full	9.3	10.18	/	Pass

5G NR N7 SCS=15kHz 15MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	13.46	14.56	/	Pass
CP-OFDM QPSK		Outer_Full	14.17	15.15	/	Pass
DFT-s-OFDM PI/2 BPSK	Mid	Outer_Full	13.46	14.47	/	Pass
CP-OFDM QPSK		Outer_Full	14.19	15.26	/	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	13.47	14.5	/	Pass
CP-OFDM QPSK		Outer_Full	14.21	15.26	/	Pass

5G NR N7 SCS=15kHz 20MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	17.87	19.09	/	Pass
CP-OFDM QPSK		Outer_Full	18.95	20.07	/	Pass
DFT-s-OFDM PI/2 BPSK	Mid	Outer_Full	17.89	19.1	/	Pass
CP-OFDM QPSK		Outer_Full	18.99	20.11	/	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	17.9	19.07	/	Pass
CP-OFDM QPSK		Outer_Full	18.96	20.1	/	Pass

Test Graph



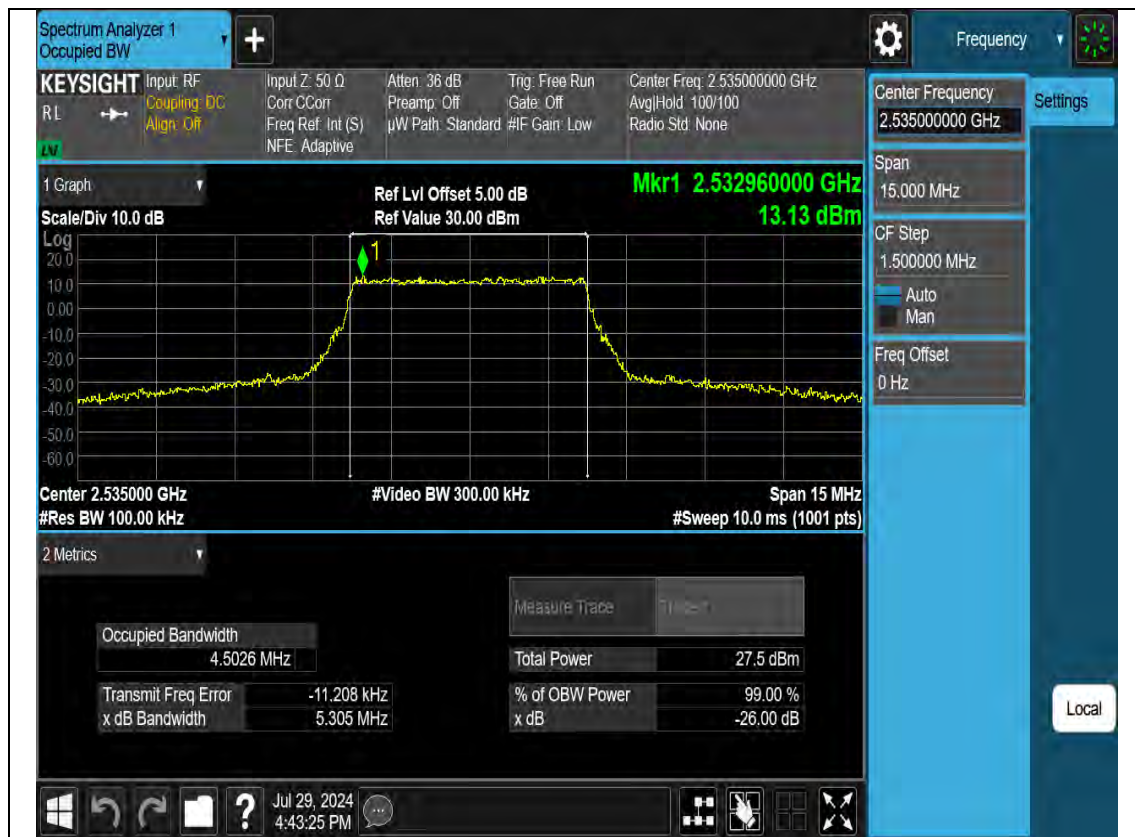
N7-5M-OBW-L-CP-OFDM-QPSK



N7-5M-OBW-M-DFT-s-OFDM-Pi2 BPSK



N7-5M-OBW-M-CP-OFDM-QPSK



N7-5M-OBW-H-DFT-s-OFDM-Pi2 BPSK



N7-5M-OBW-H-CP-OFDM-QPSK



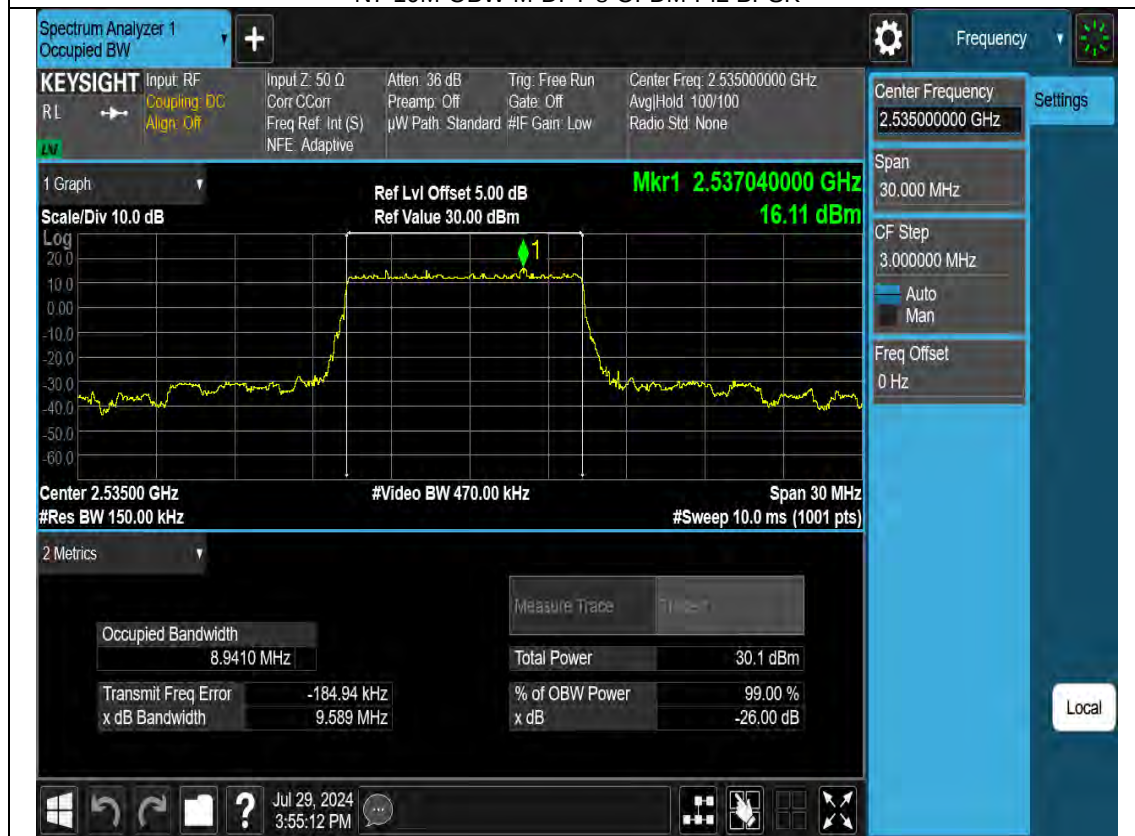
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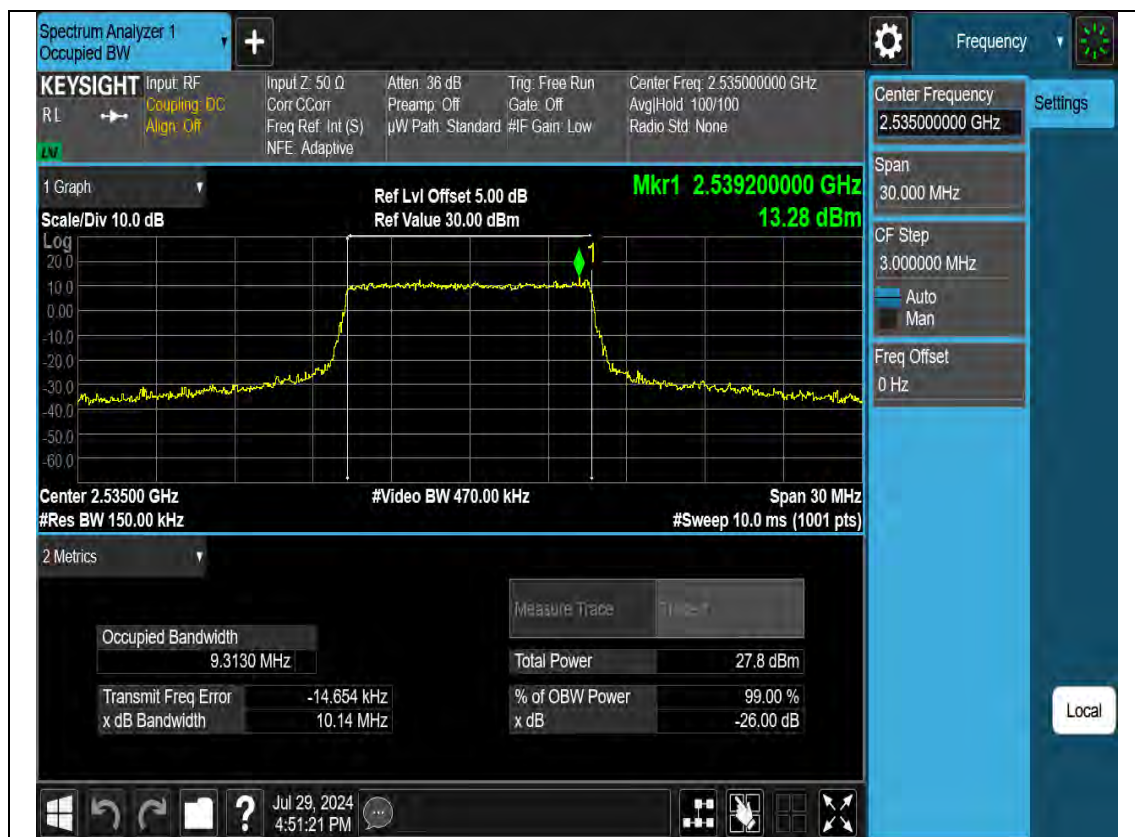
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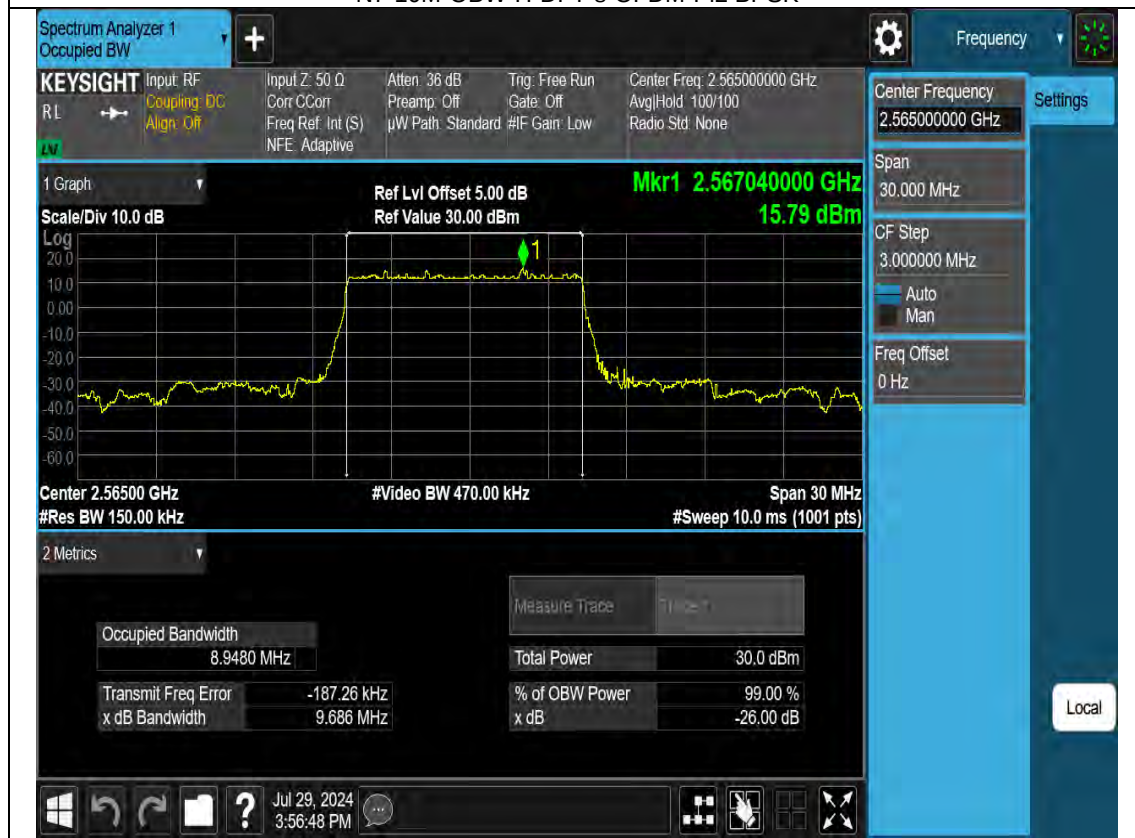
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N7-10M-OBW-M-CP-OFDM-QPSK



N7-10M-OBW-H-DFT-s-OFDM-Pi2 BPSK



N7-10M-OBW-H-CP-OFDM-QPSK



N7-15M-OBW-L-DFT-s-OFDM-Pi2 BPSK



N7-15M-OBW-L-CP-OFDM-QPSK



N7-15M-OBW-M-DFT-s-OFDM-Pi2 BPSK



N7-15M-OBW-M-CP-OFDM-QPSK



N7-15M-OBW-H-DFT-s-OFDM-Pi2 BPSK



N7-15M-OBW-H-CP-OFDM-QPSK



N7-20M-OBW-L-DFT-s-OFDM-Pi2 BPSK



N7-20M-OBW-L-CP-OFDM-QPSK



N7-20M-OBW-M-DFT-s-OFDM-Pi2 BPSK



N7-20M-OBW-M-CP-OFDM-QPSK



N7-20M-OBW-H-DFT-s-OFDM-Pi2 BPSK



N7-20M-OBW-H-CP-OFDM-QPSK



Peak-Average Ratio

Test Result

5G NR N7 SCS=15kHz 5MHz					
Modulation	CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	4.29	<=13	Pass
CP-OFDM QPSK		Outer_Full	6.52	<=13	Pass
DFT-s-OFDM PI/2 BPSK	Middle	Outer_Full	4.31	<=13	Pass
CP-OFDM QPSK		Outer_Full	6.6	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	4.19	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.02	<=13	Pass

5G NR N7 SCS=15kHz 10MHz					
Modulation	CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	4.41	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.09	<=13	Pass
DFT-s-OFDM PI/2 BPSK	Middle	Outer_Full	4.47	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.08	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	4.33	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.49	<=13	Pass

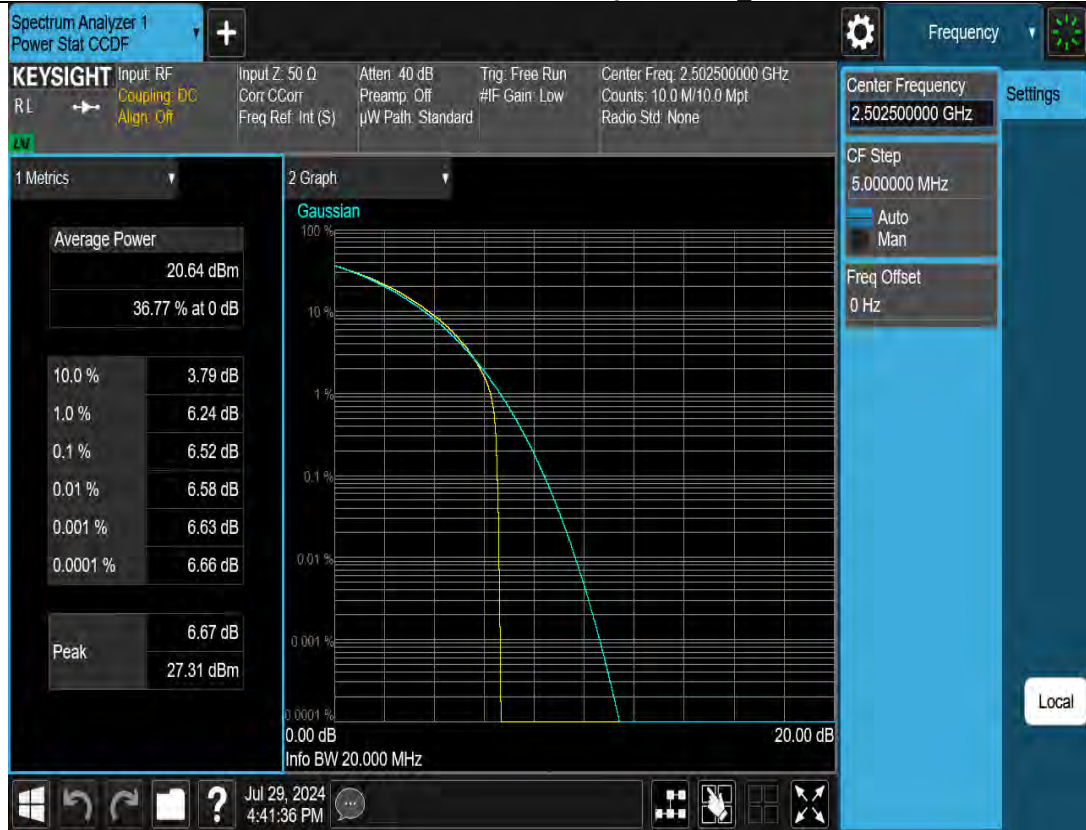
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DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	4.2	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.01	<=13	Pass
DFT-s-OFDM PI/2 BPSK	Middle	Outer_Full	4.12	<=13	Pass
CP-OFDM QPSK		Outer_Full	6.98	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	4.36	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.54	<=13	Pass

5G NR N7 SCS=15kHz 20MHz					
Modulation	CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	4.45	<=13	Pass
CP-OFDM QPSK		Outer_Full	6.95	<=13	Pass
DFT-s-OFDM PI/2 BPSK	Middle	Outer_Full	4.41	<=13	Pass
CP-OFDM QPSK		Outer_Full	6.93	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	4.46	<=13	Pass
CP-OFDM QPSK		Outer_Full	6.95	<=13	Pass

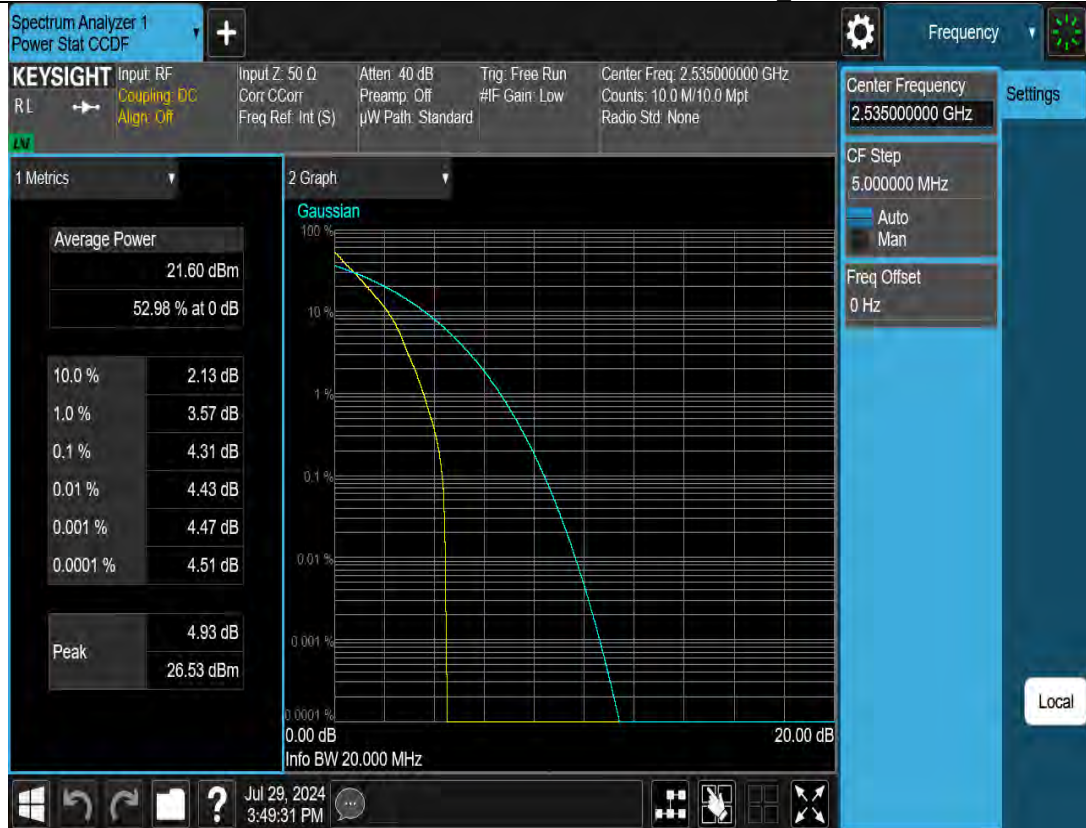
Test graph



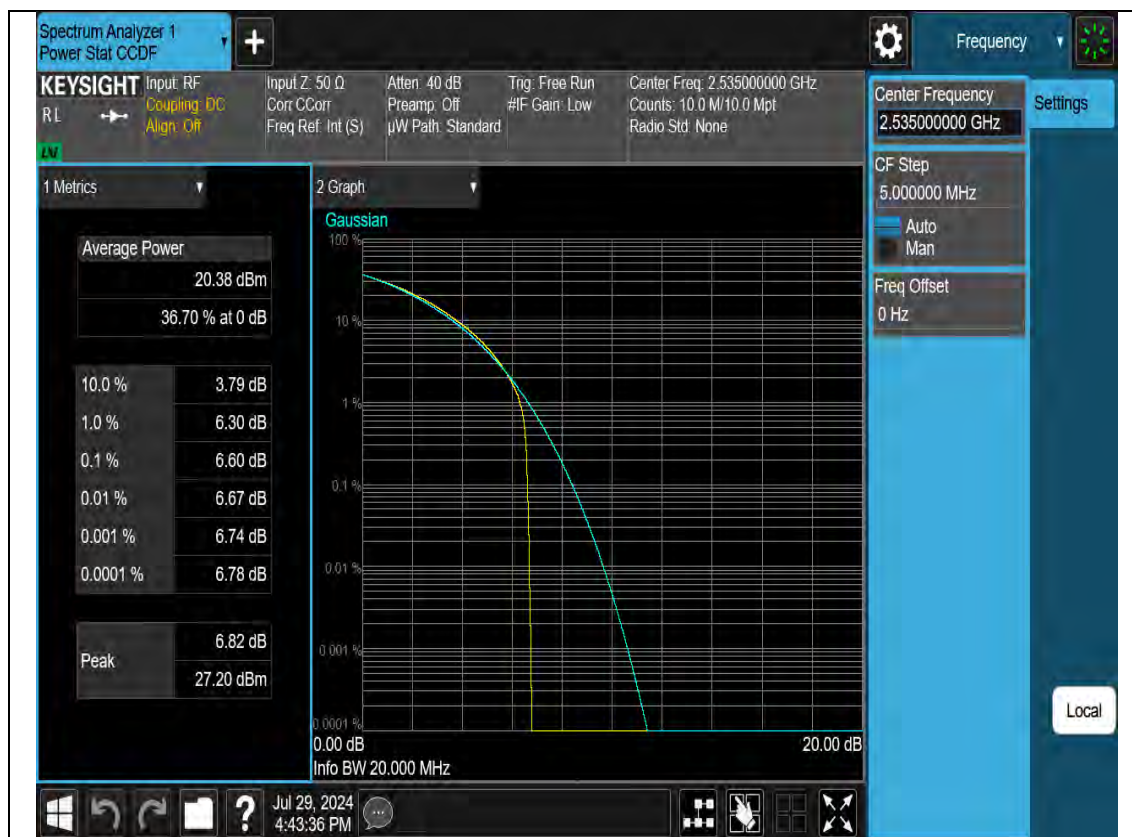
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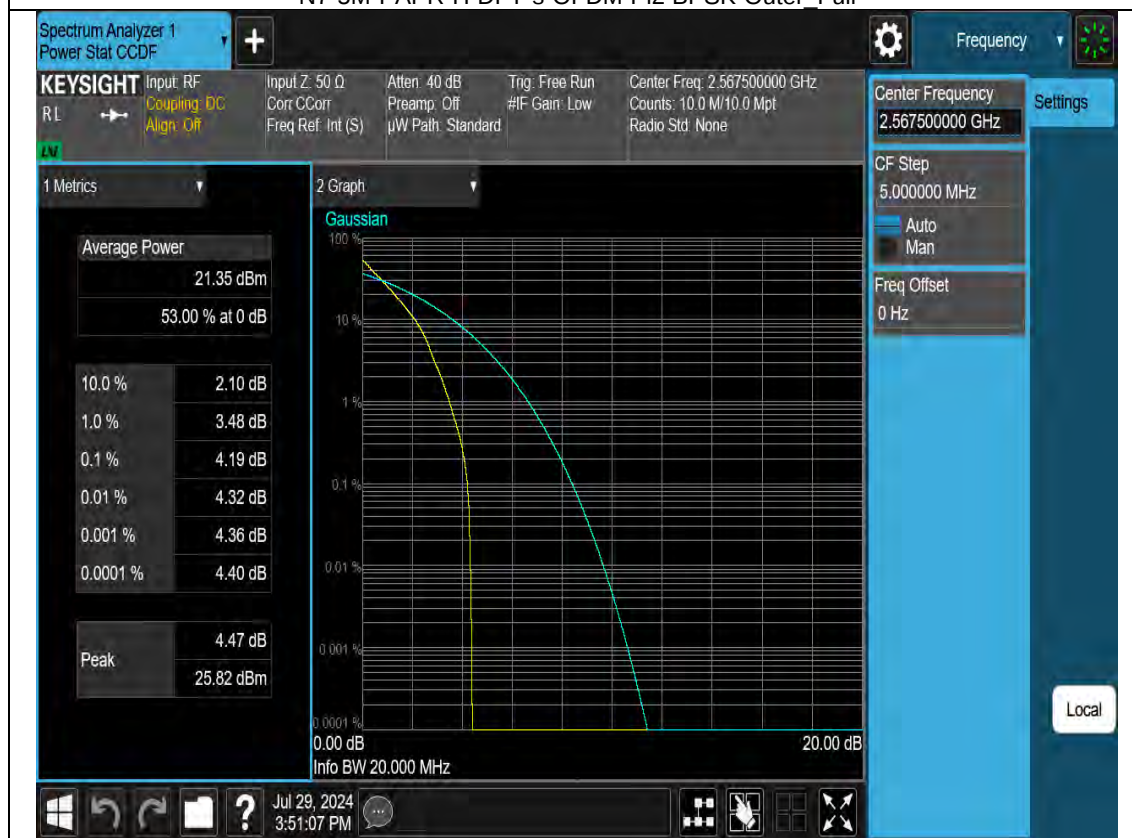
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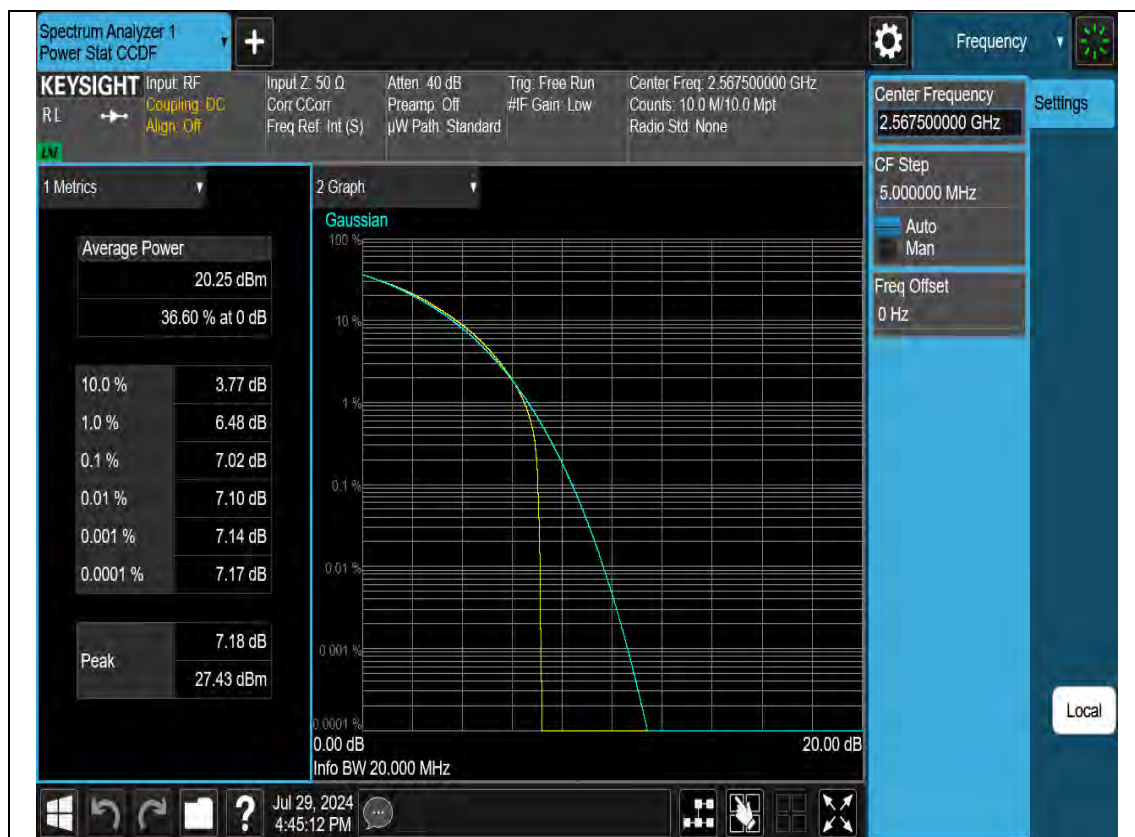
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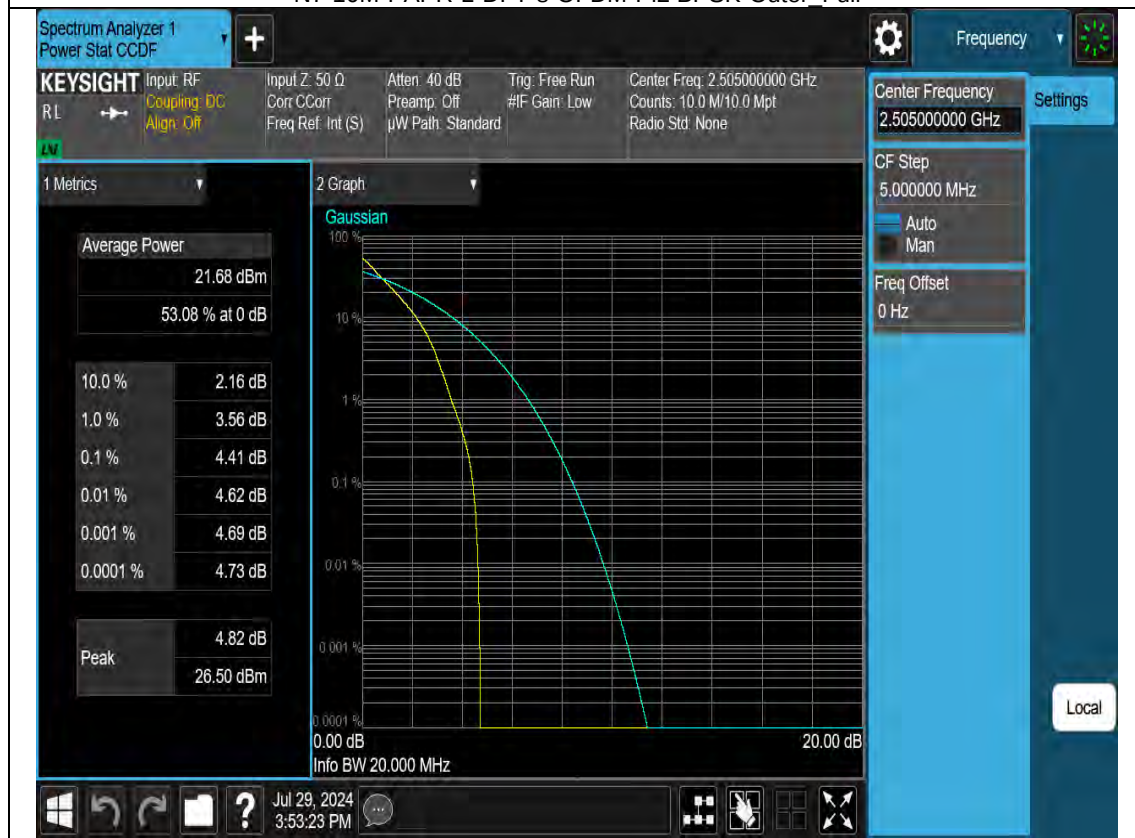
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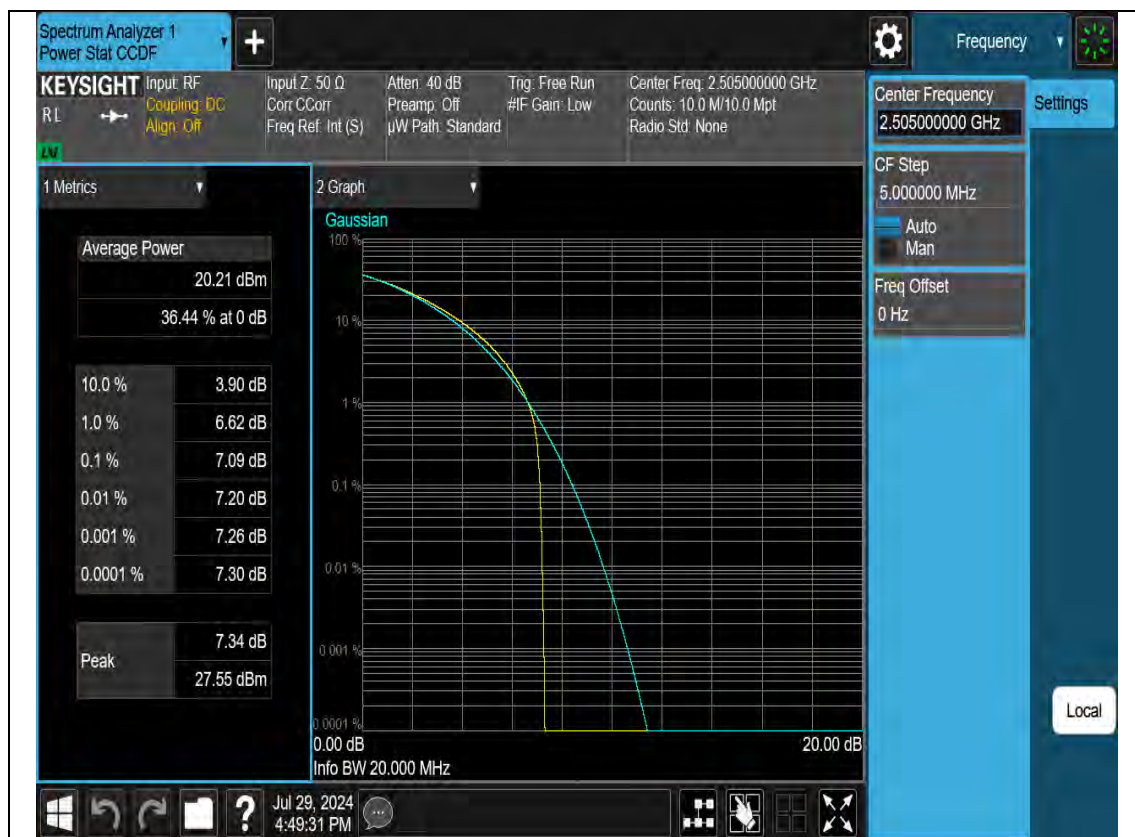
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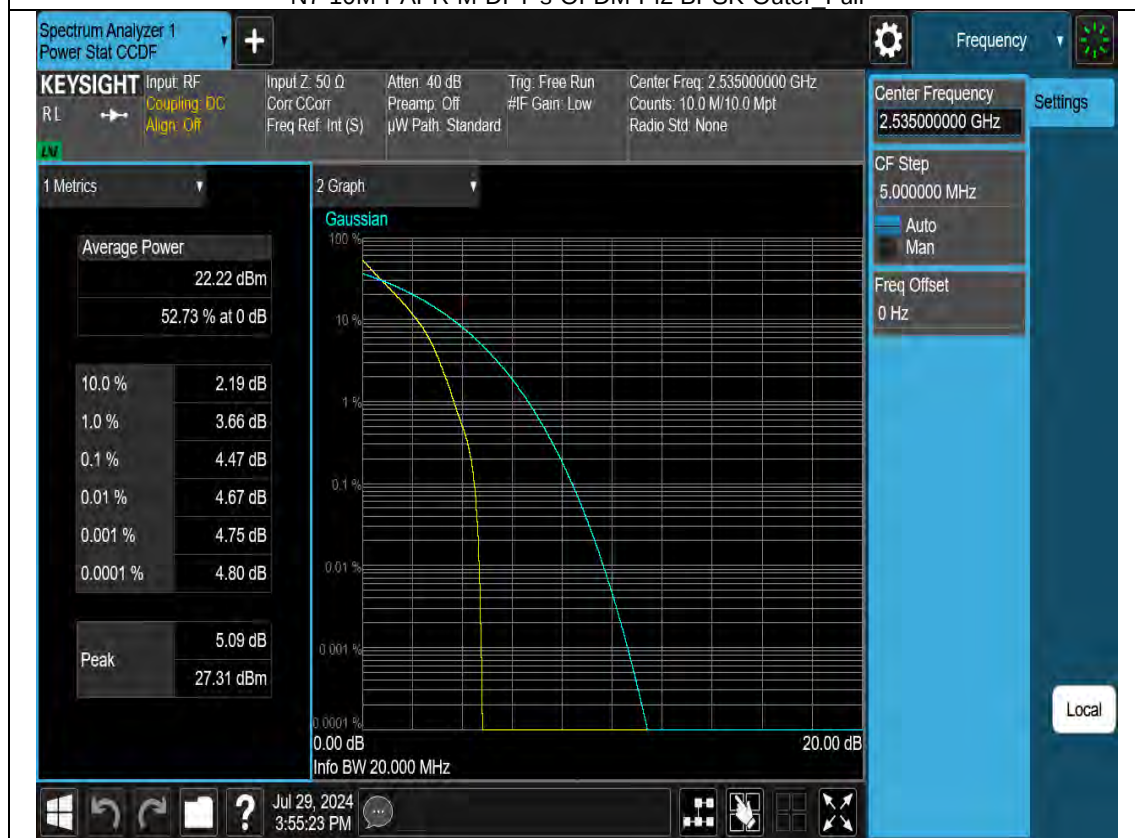
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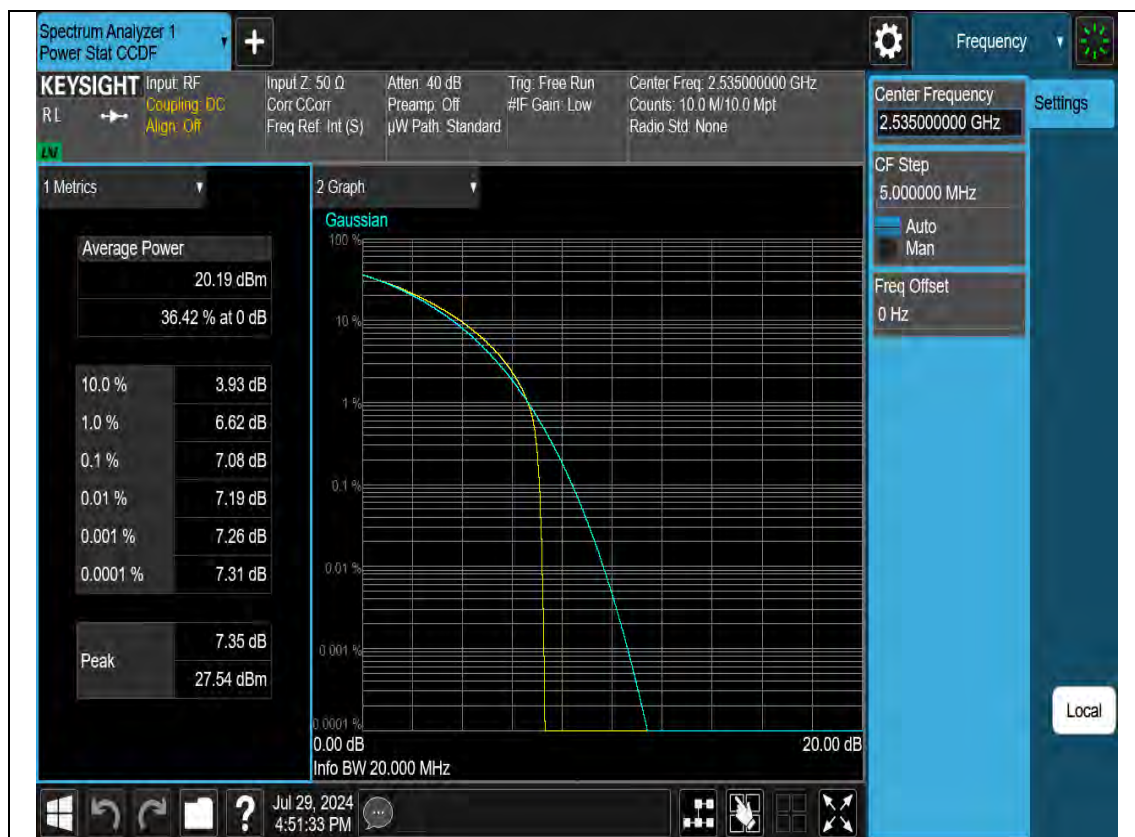
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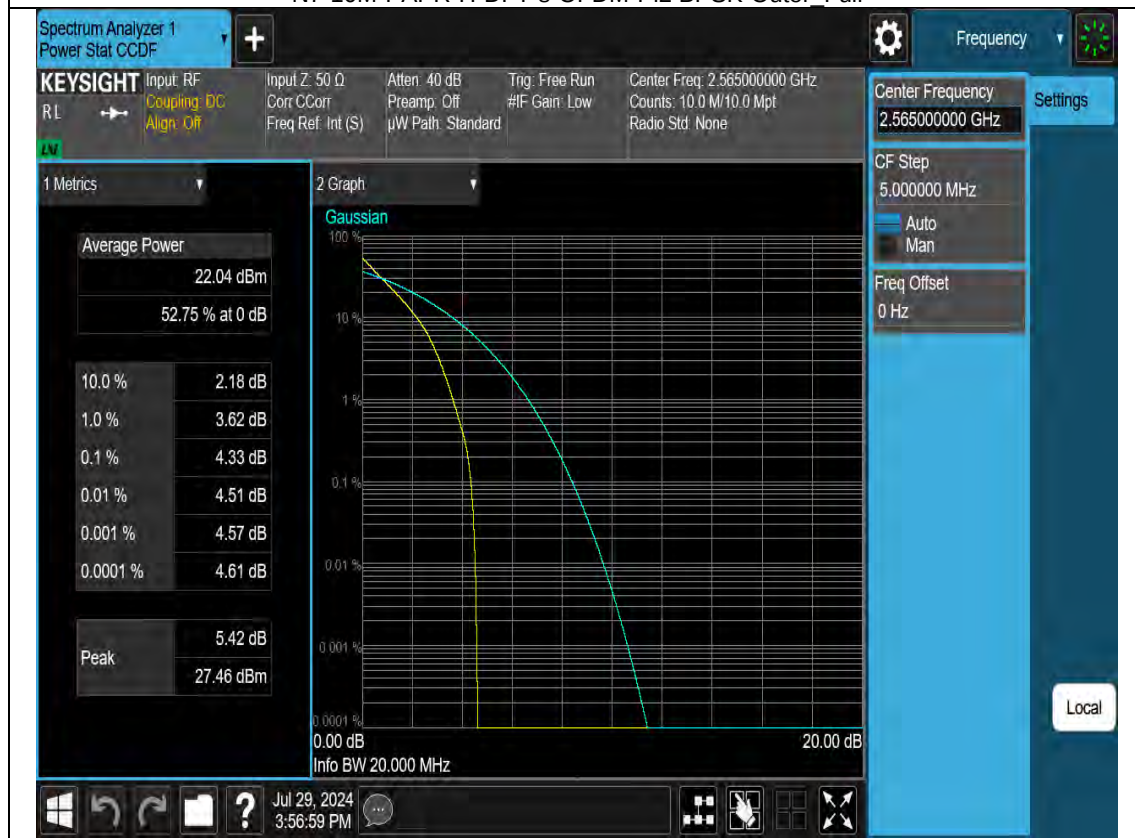
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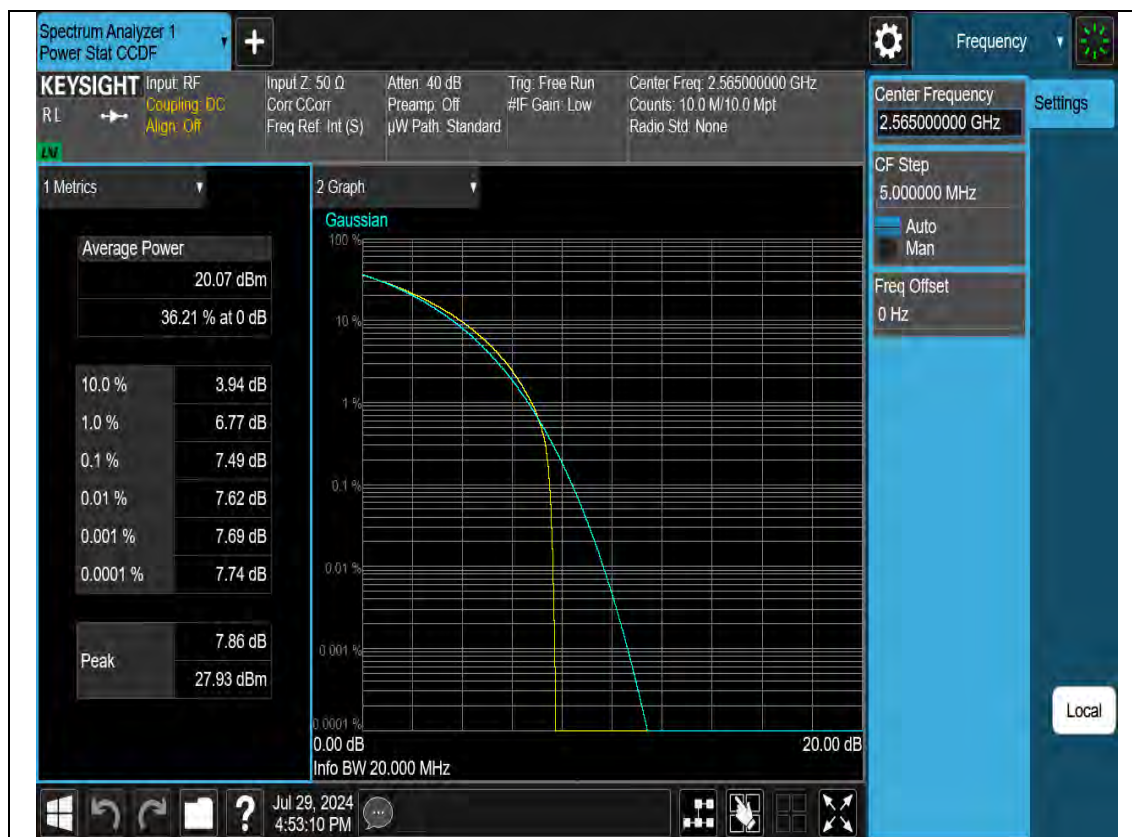
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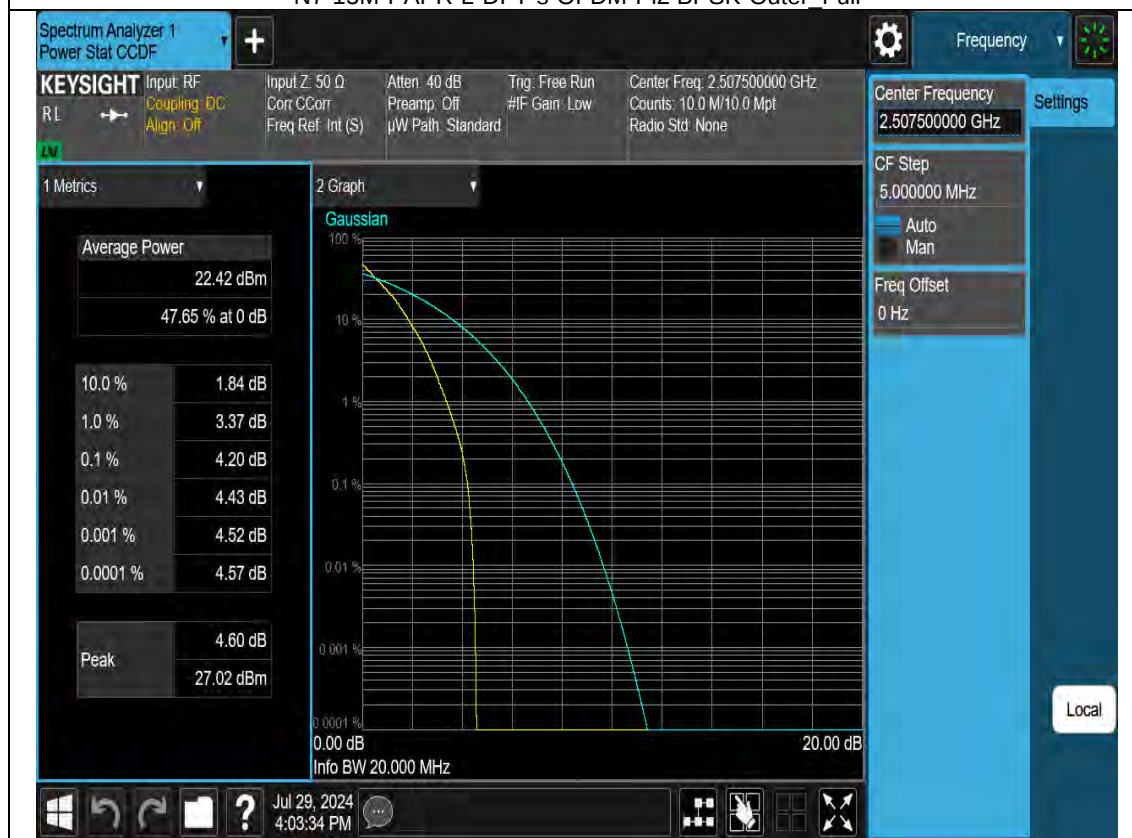
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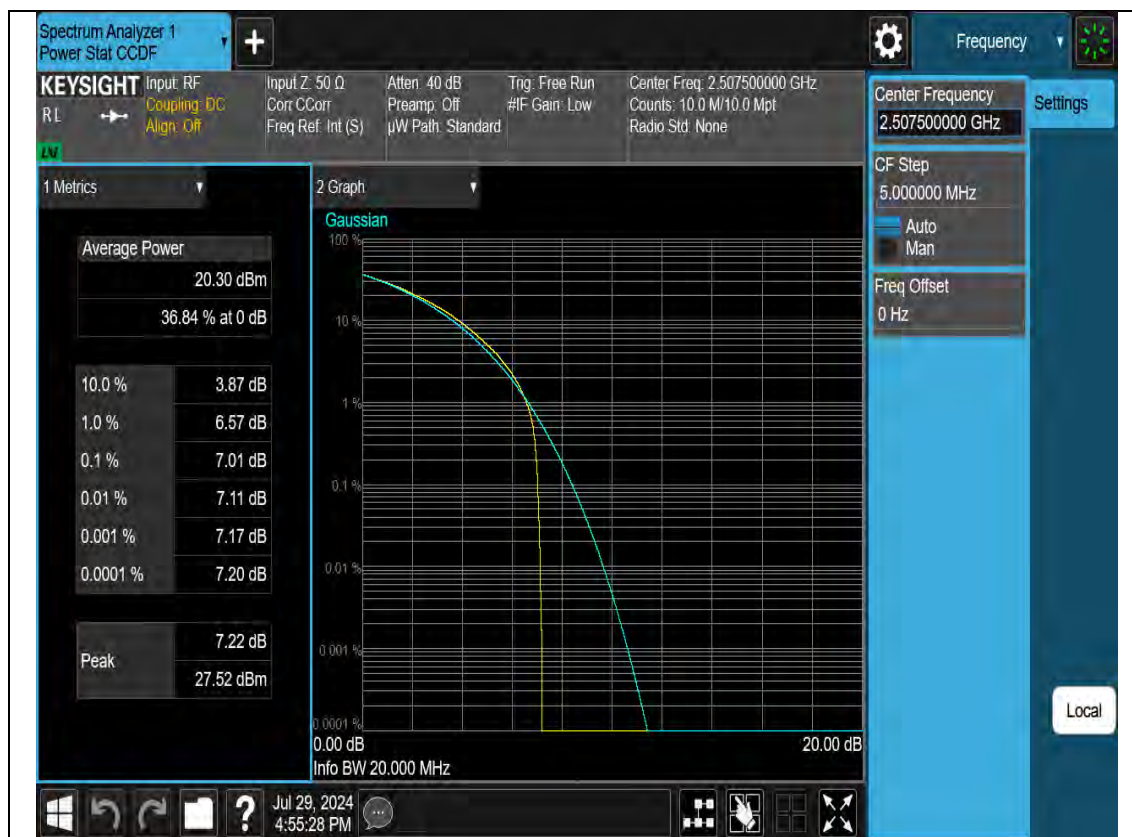
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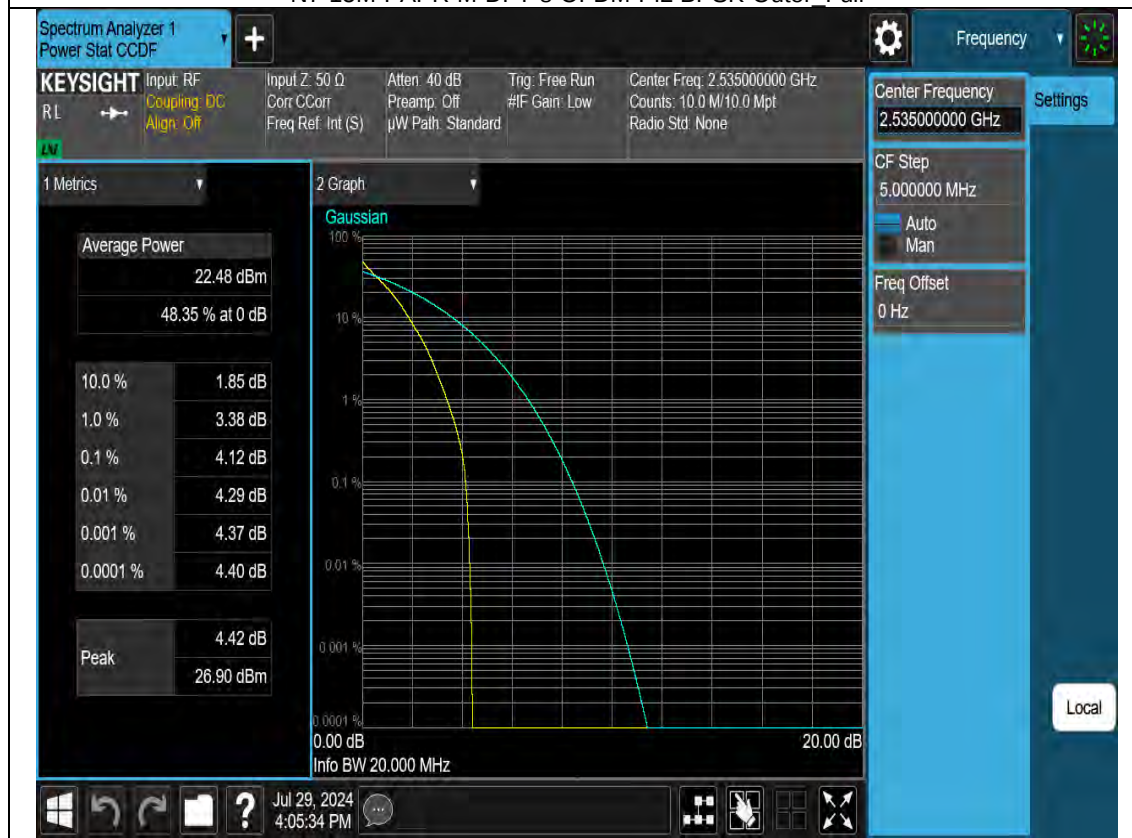
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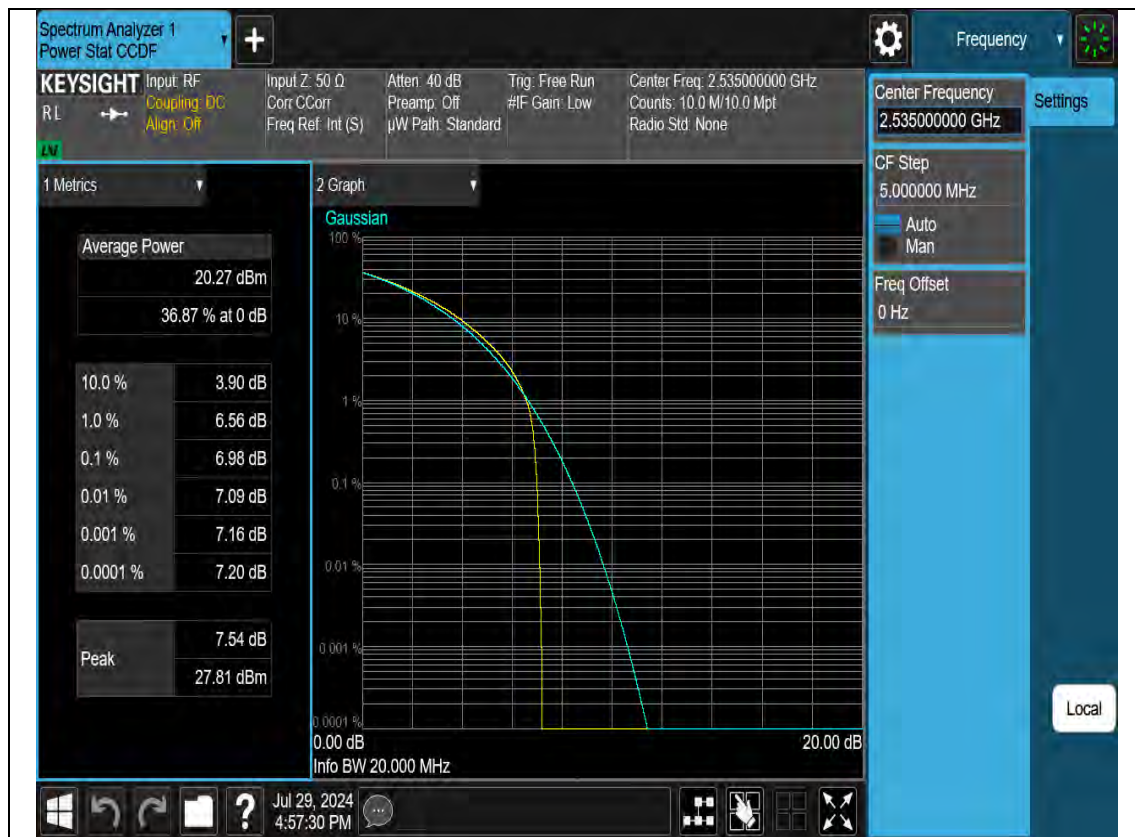
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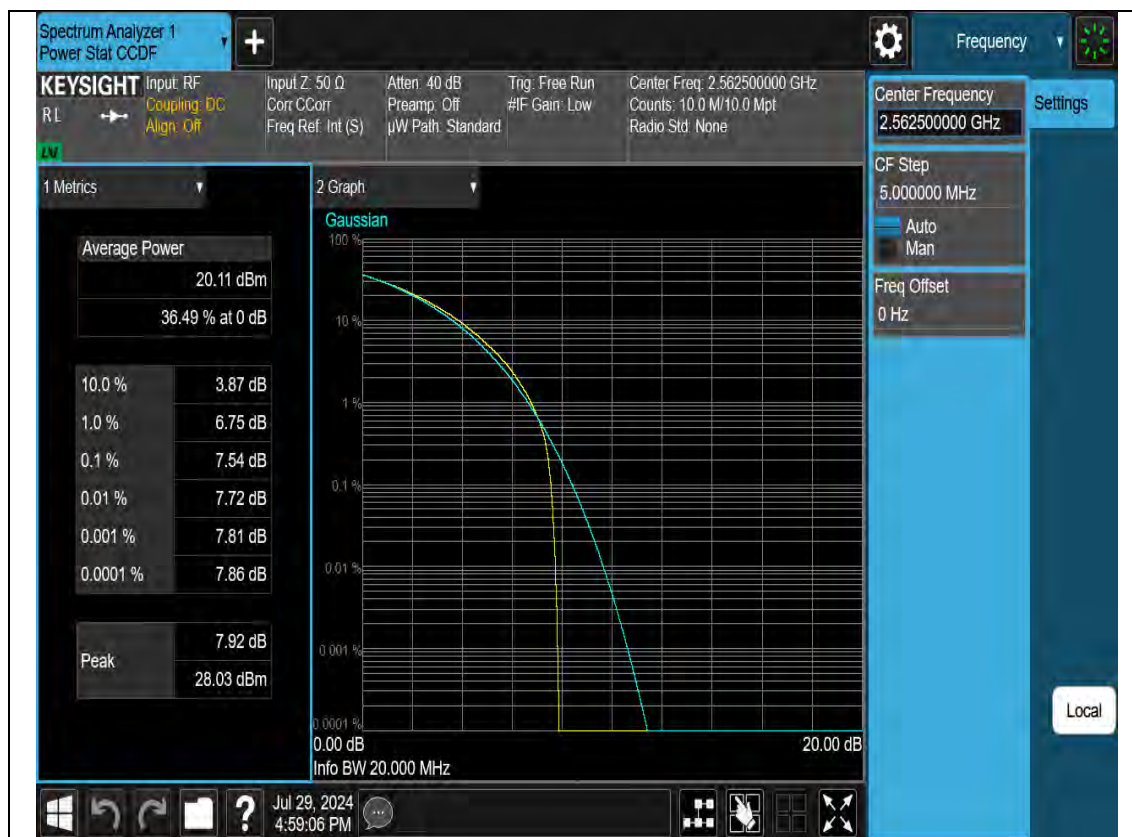
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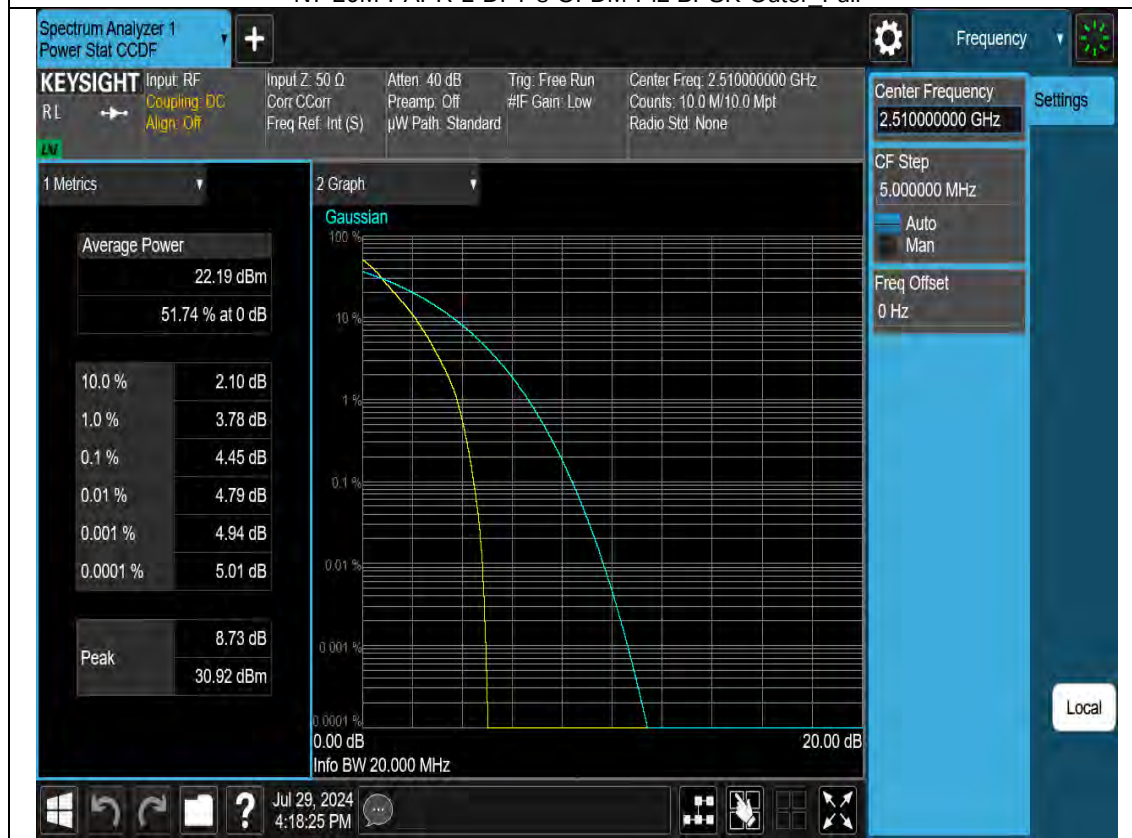
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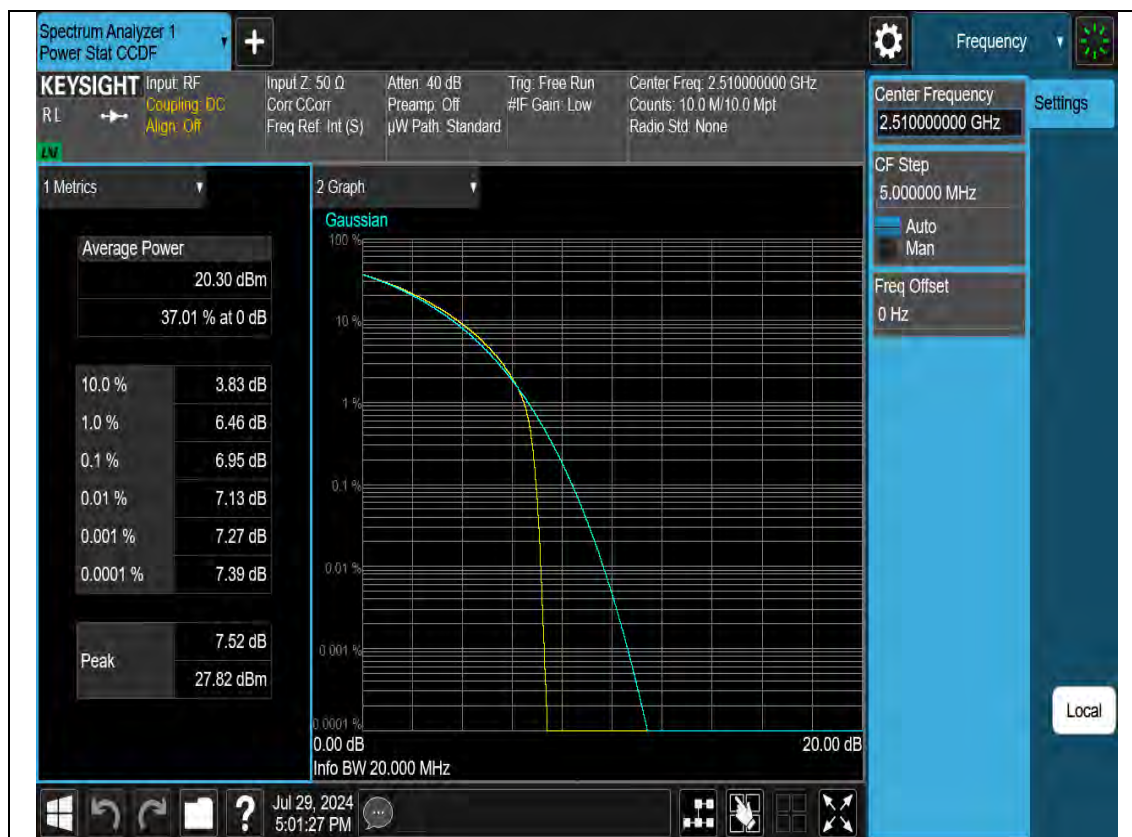
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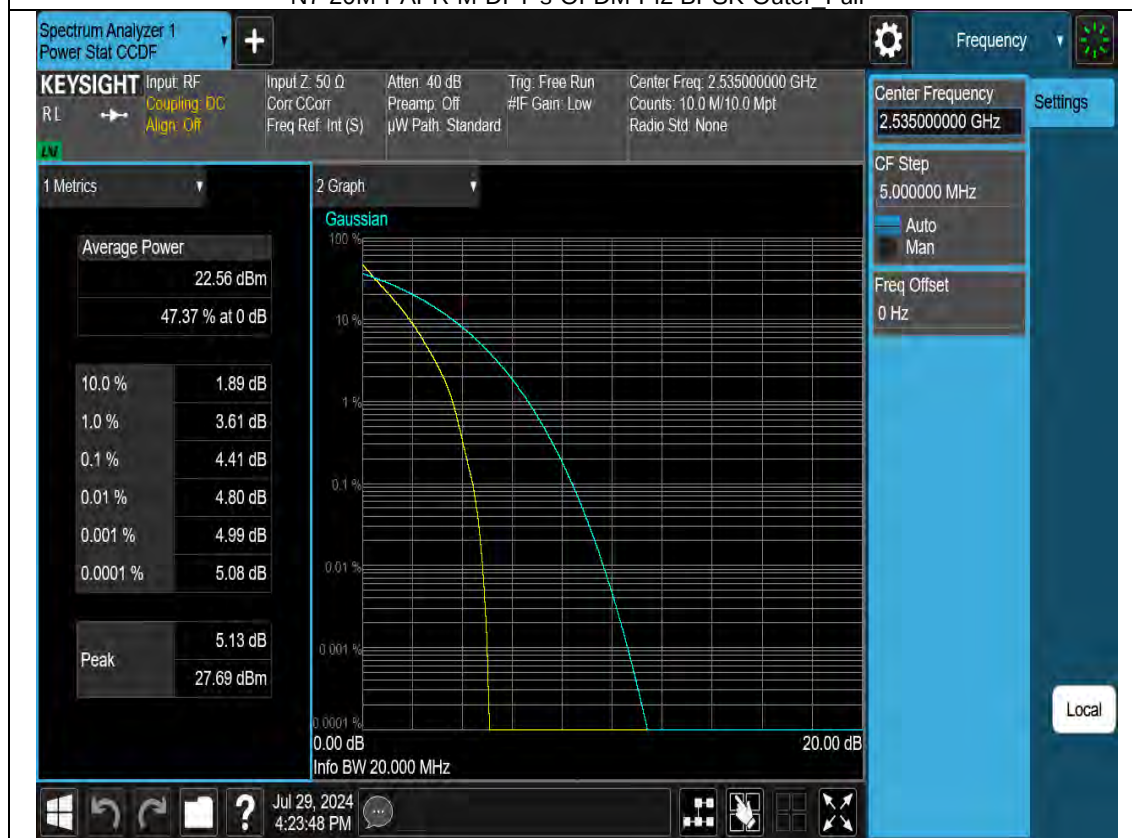
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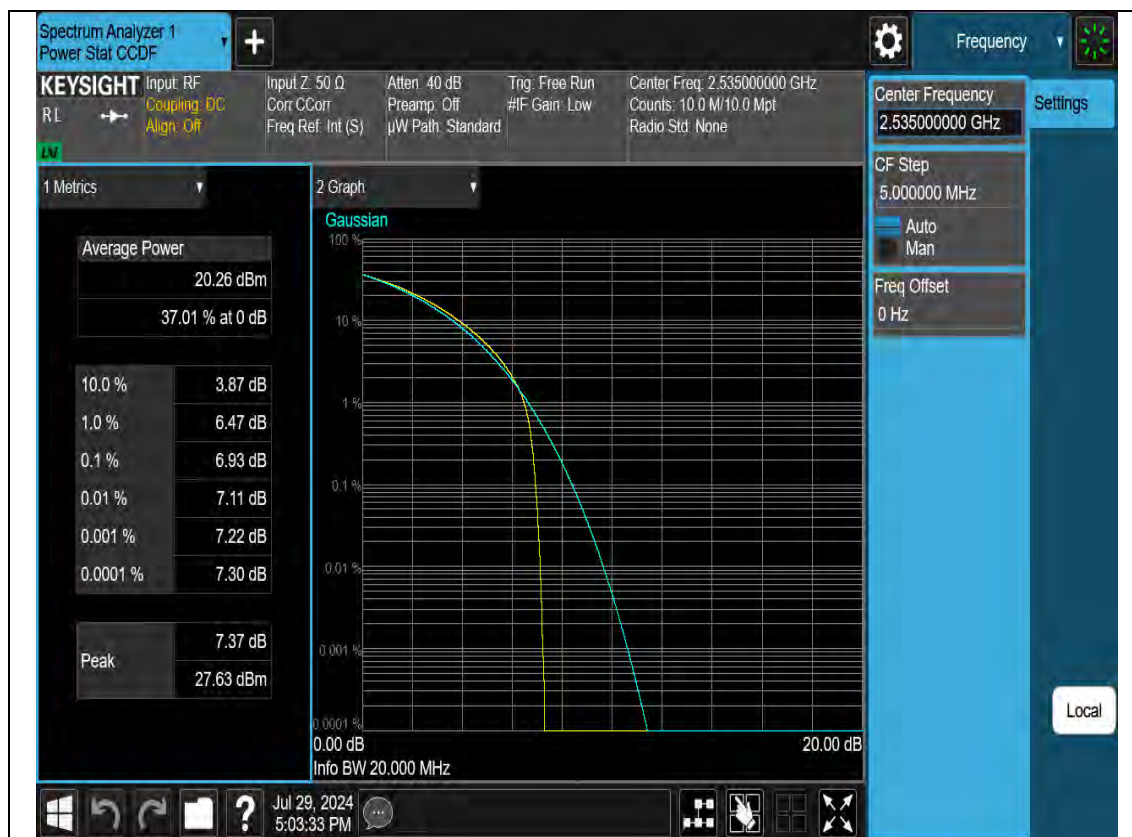
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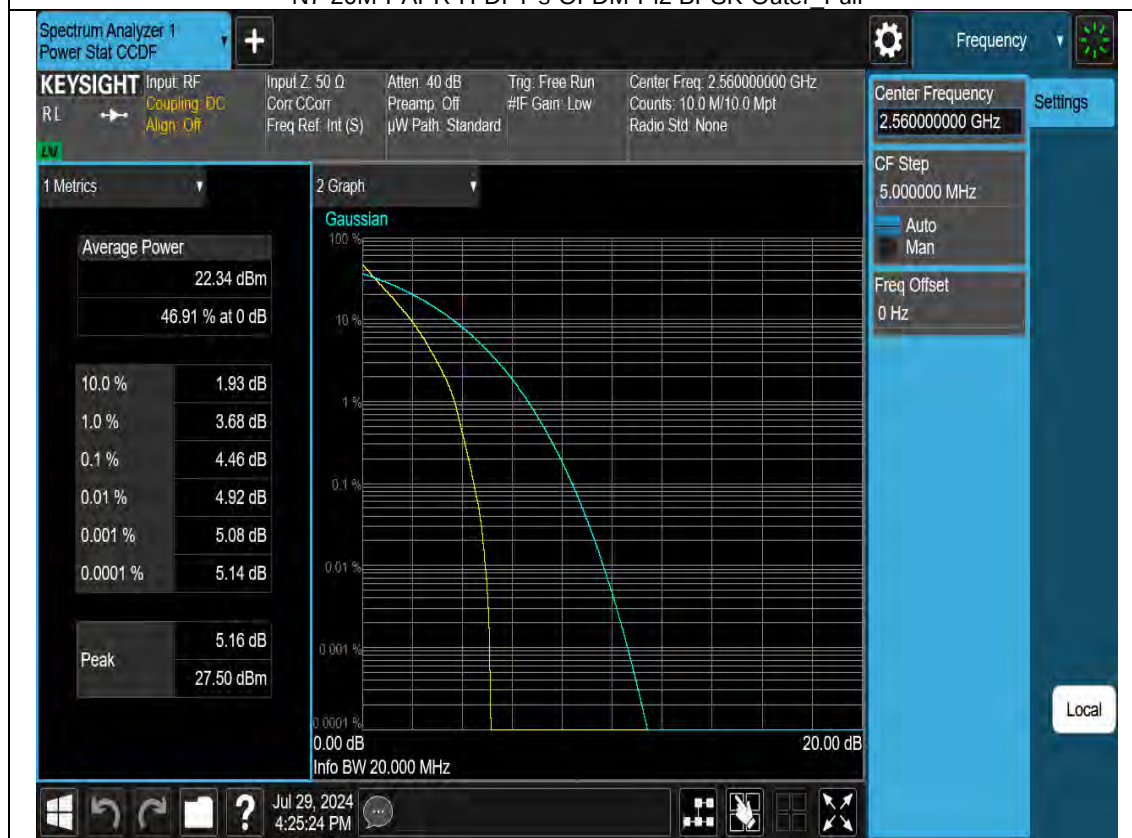
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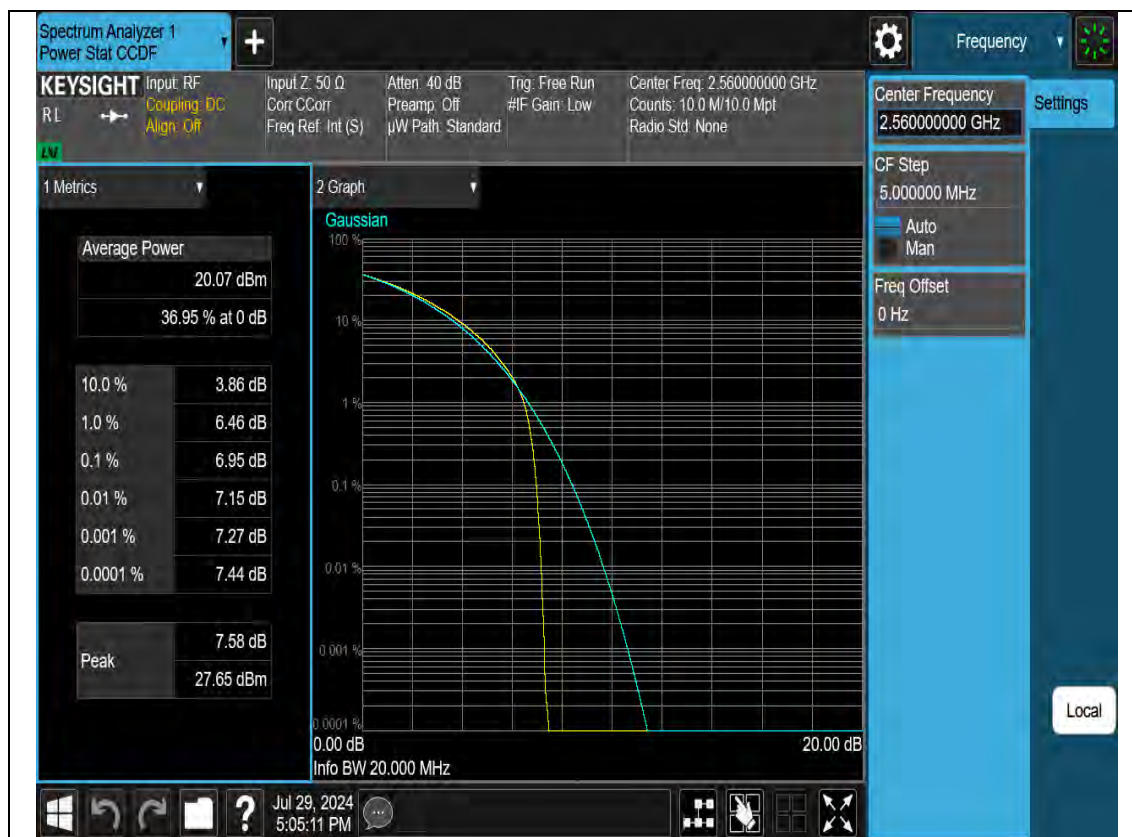
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N7-20M-PAPR-H-CP-OFDM-QPSK-Outer Full

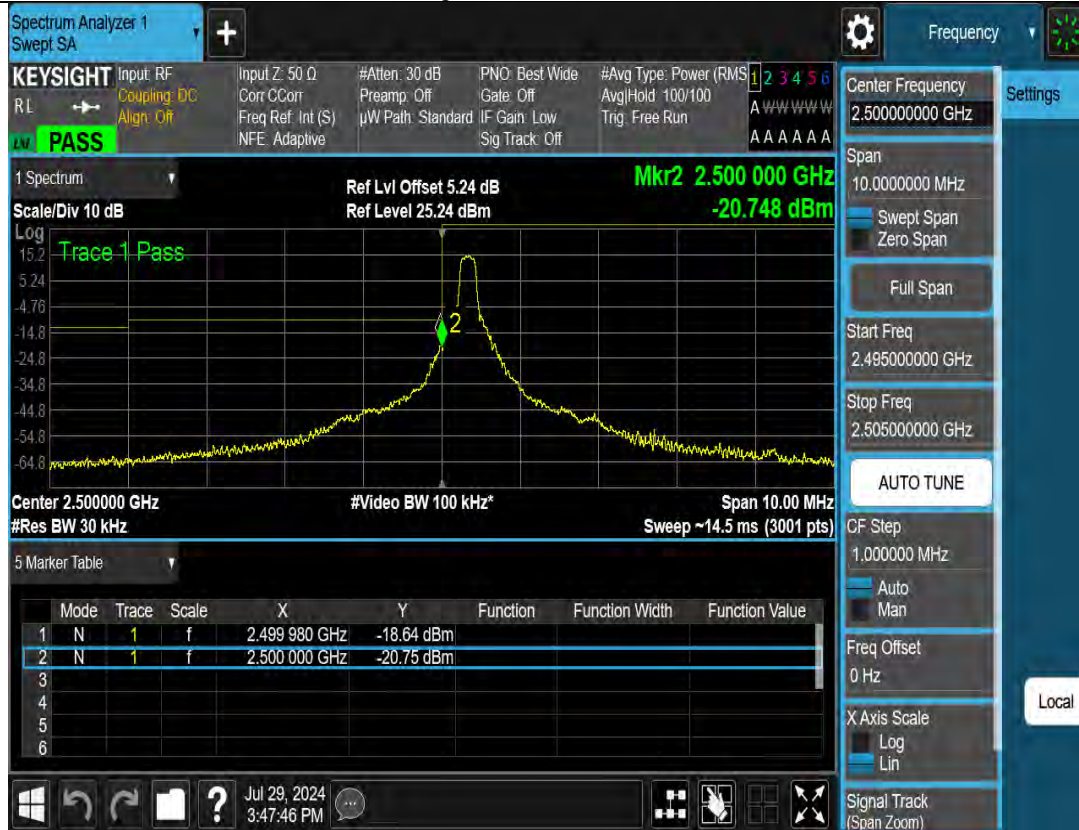


Bandedge

test graph



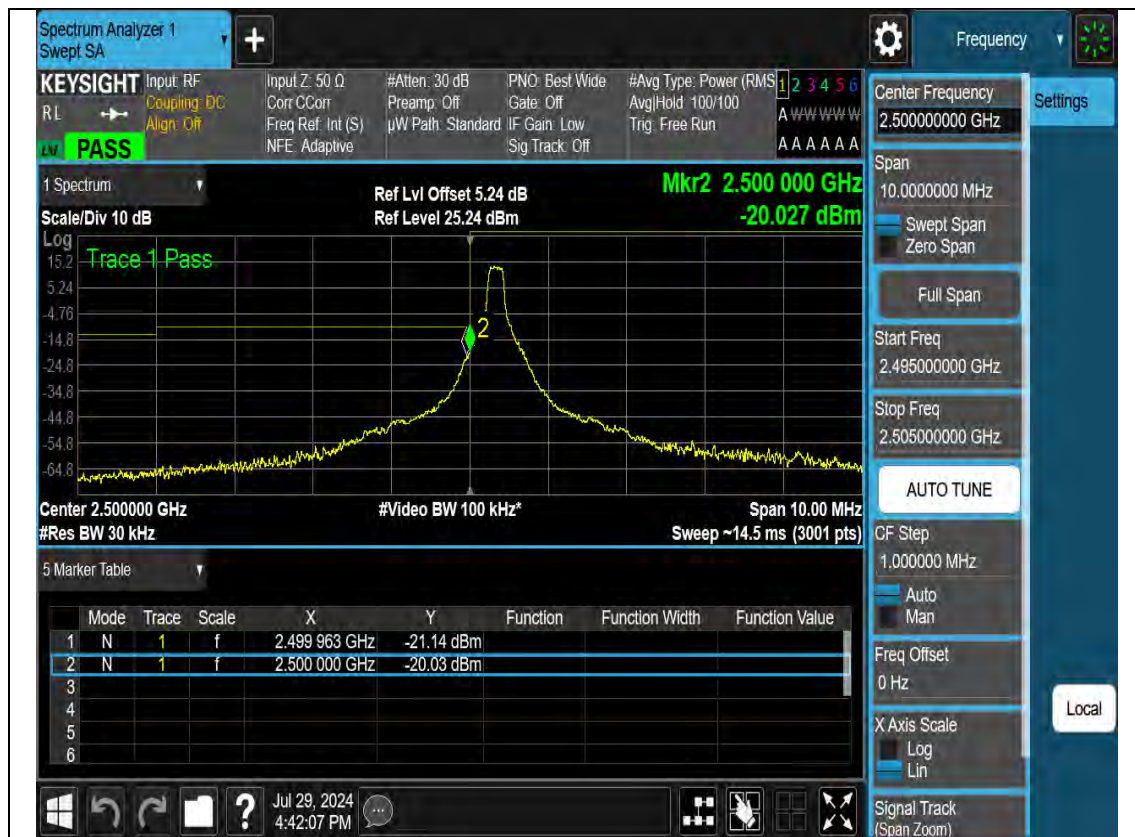
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N7-5M-Bandedge-L-CP-OFDM-QPSK-Outer Full



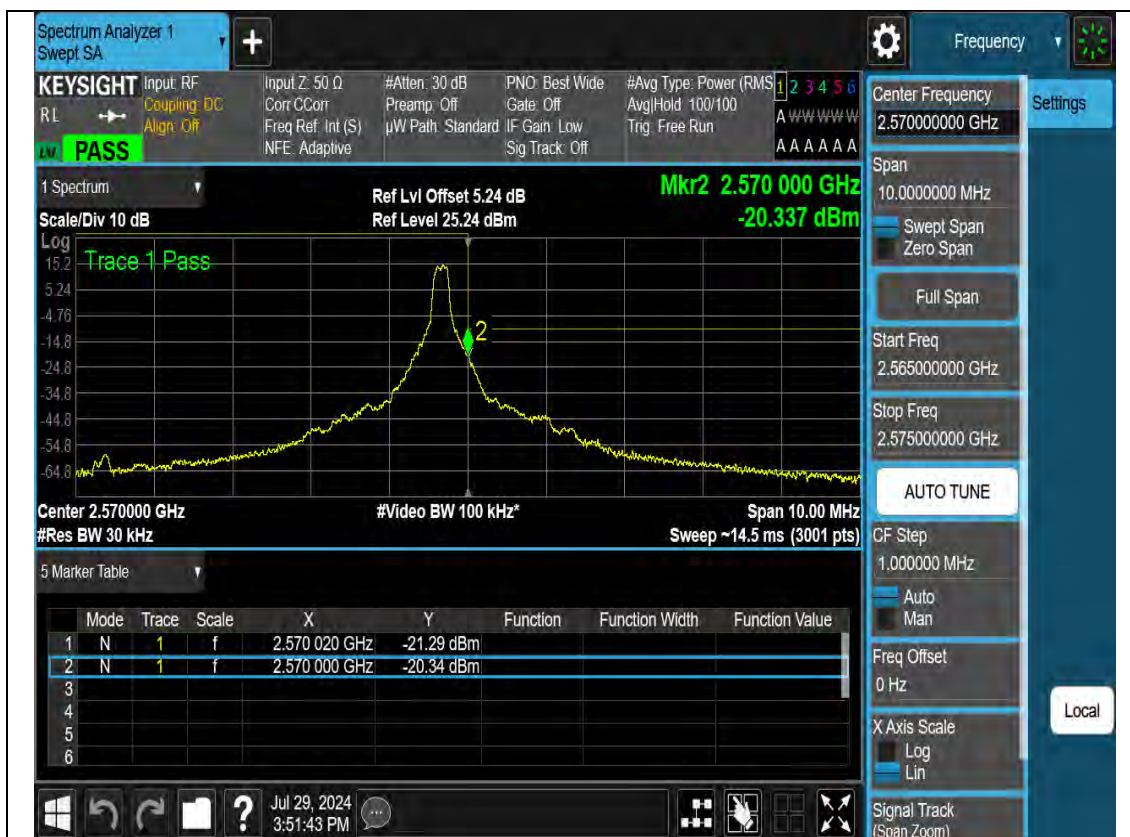
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N7-5M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-Outer Full



N7-5M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-1RB MAX



N7-5M-Bandedge-H-CP-OFDM-QPSK-Outer Full



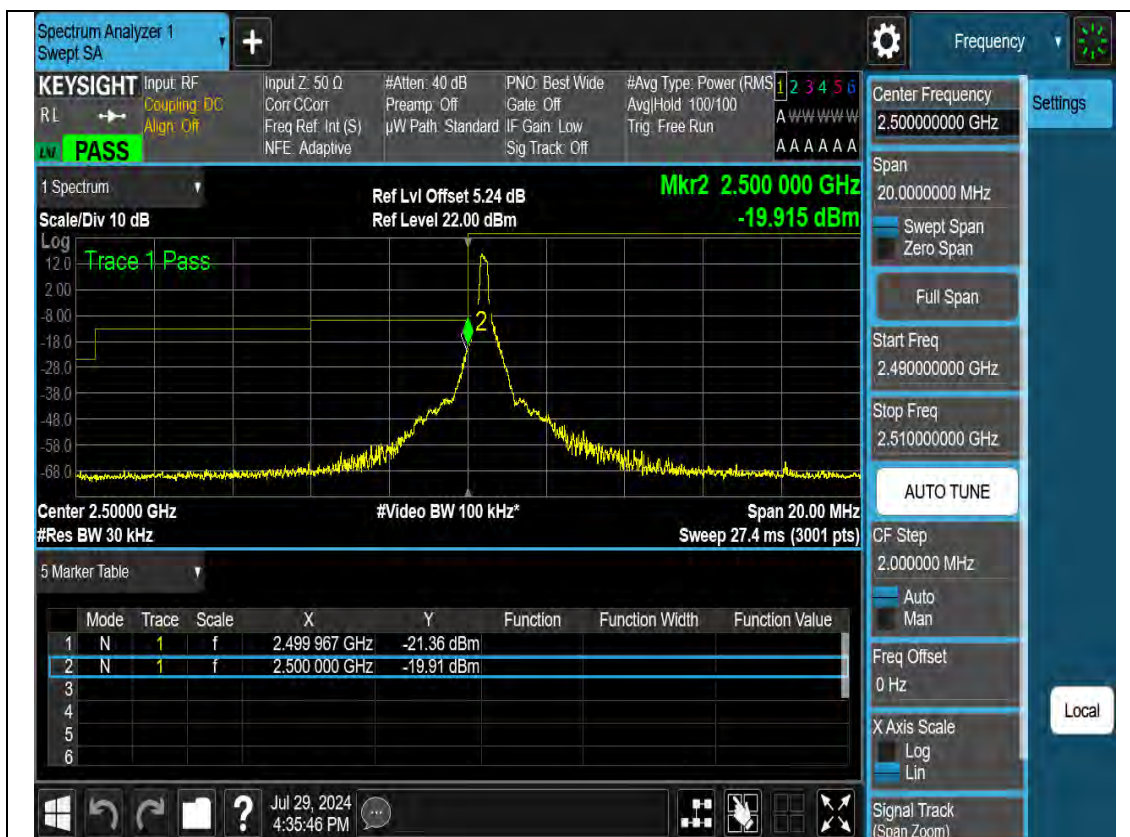
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N7-10M-Bandedge-L-DFT-s-OFDM-Pi2 BPSK-Outer Full



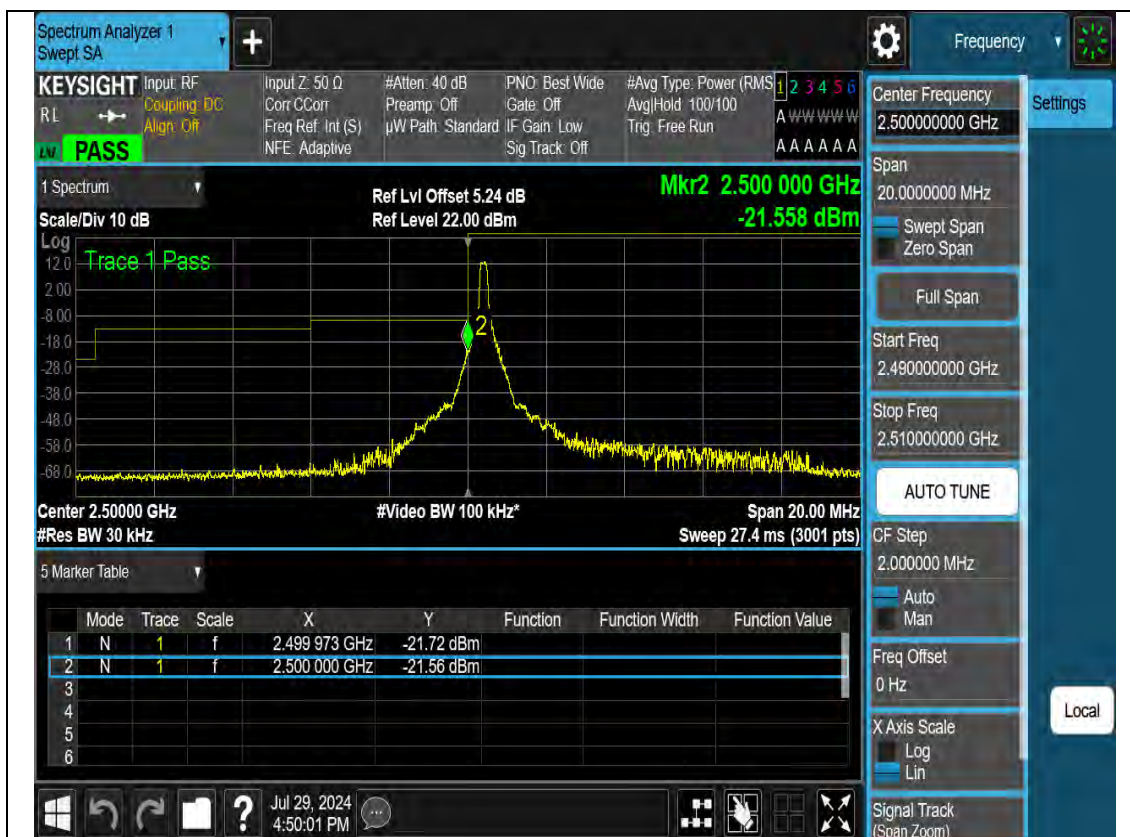
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N7-10M-Bandedge-L-CP-OFDM-QPSK-Outer_Full



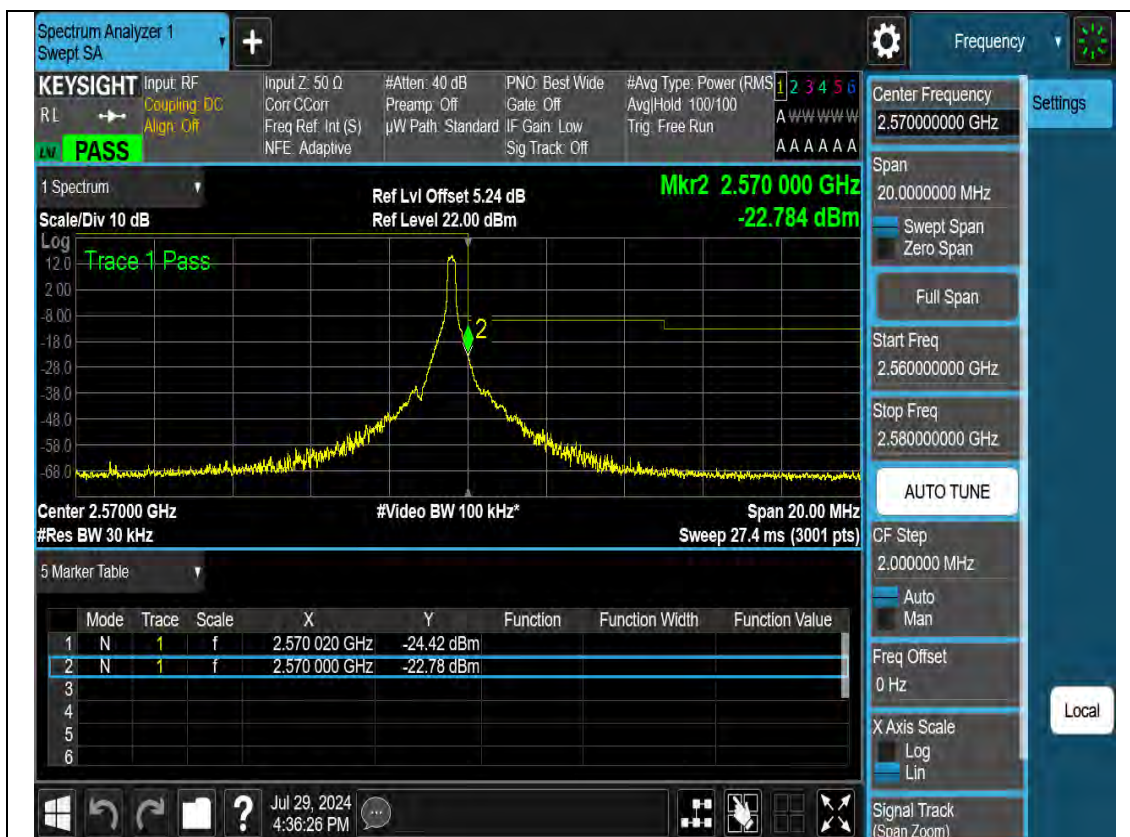
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N7-10M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-Outer Full



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N7-10M-Bandedge-H-CP-OFDM-QPSK-Outer Full



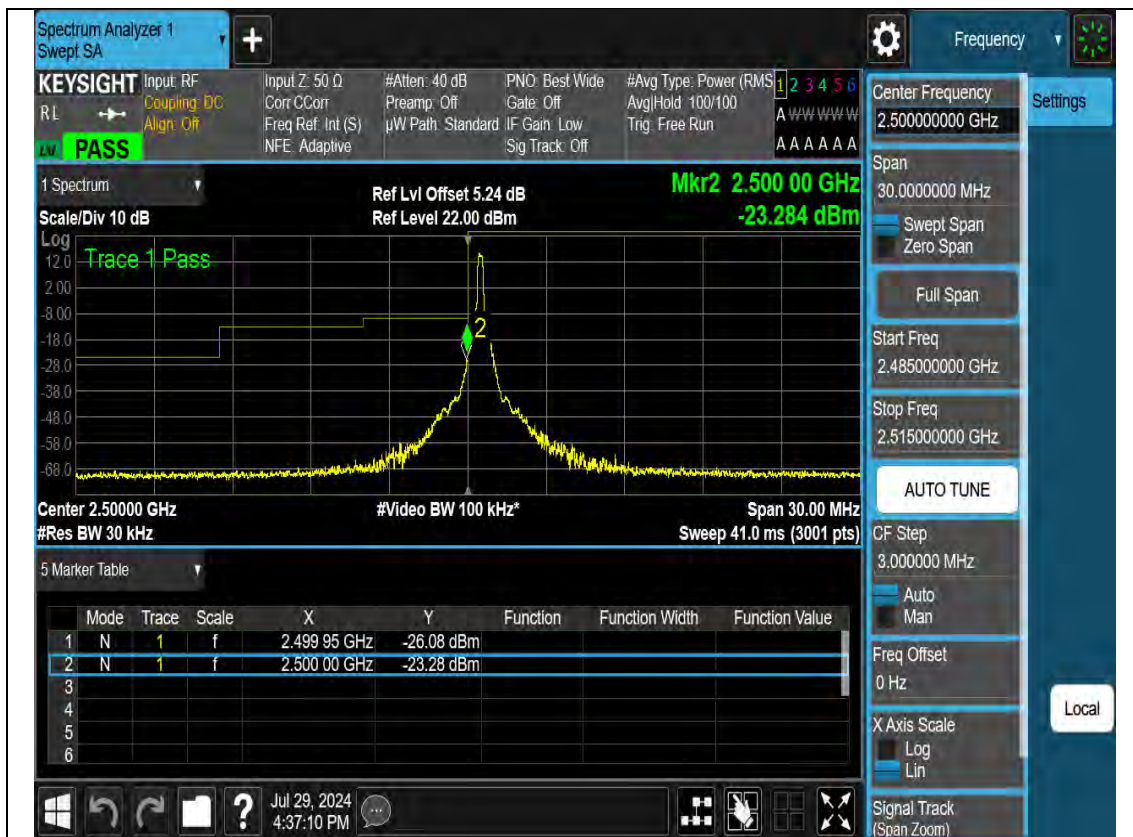
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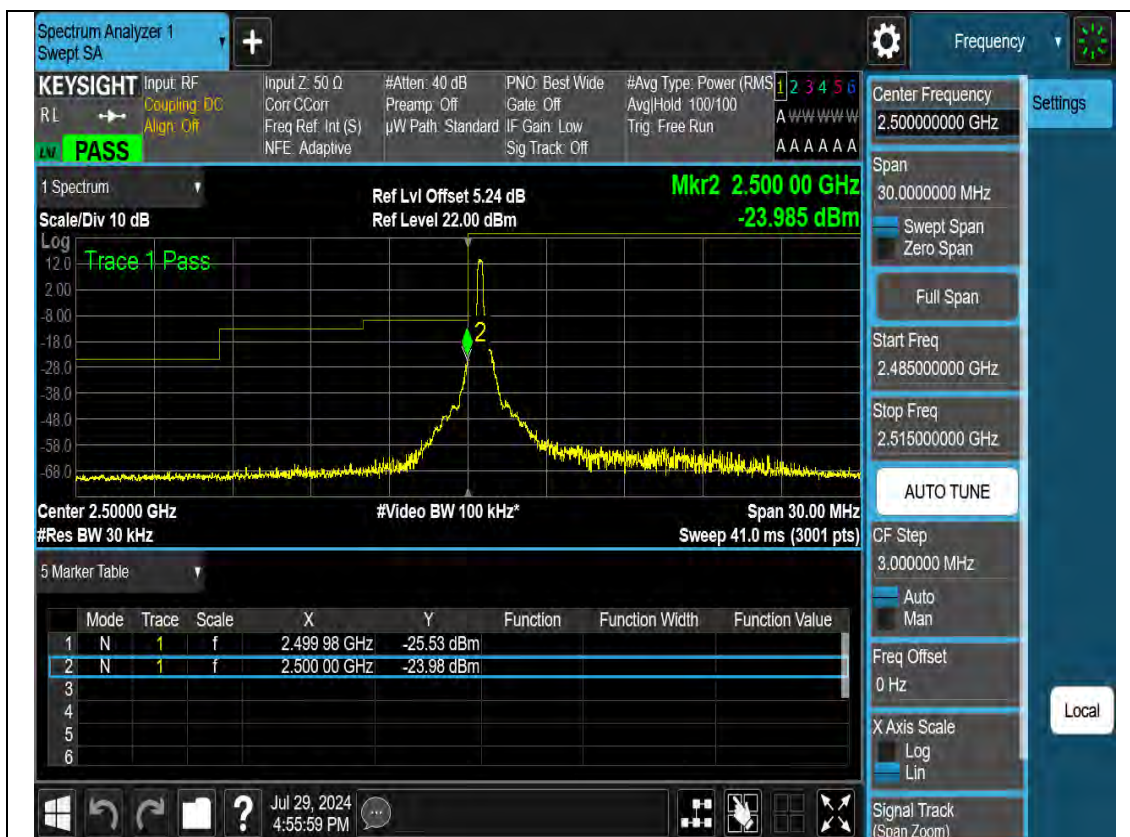
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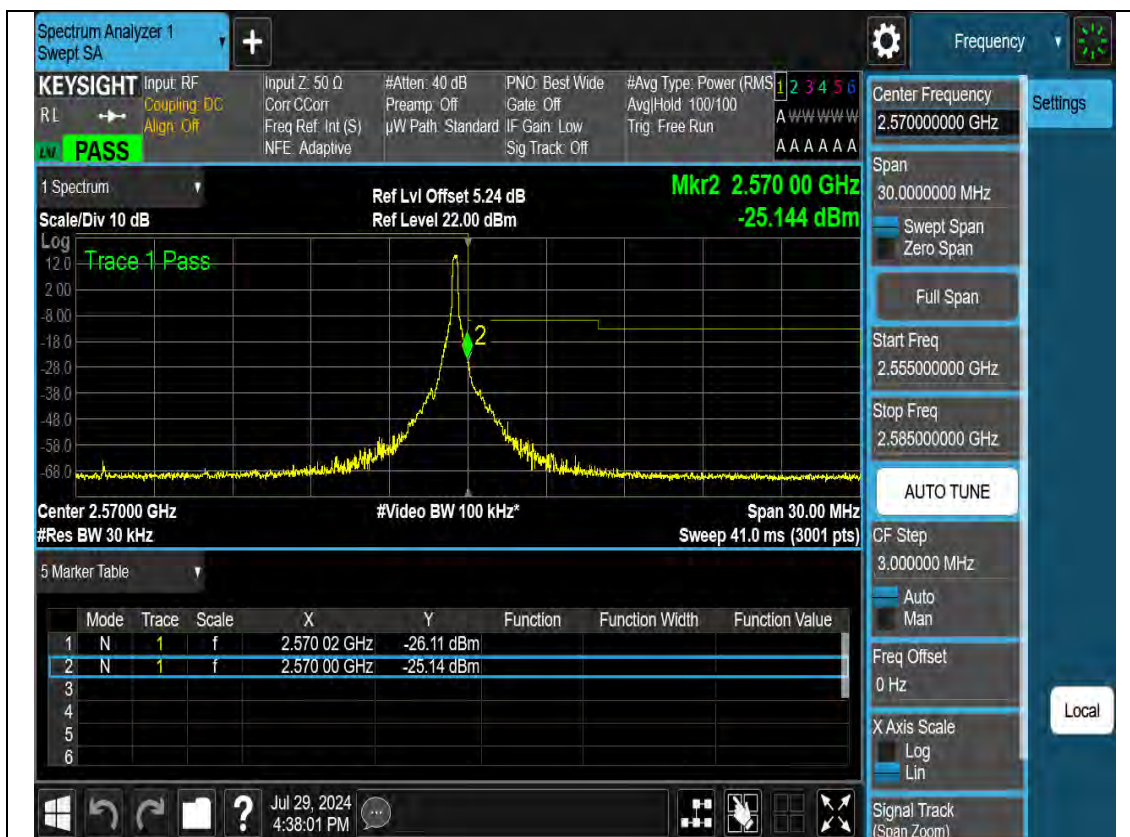
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N7-15M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-Outer Full



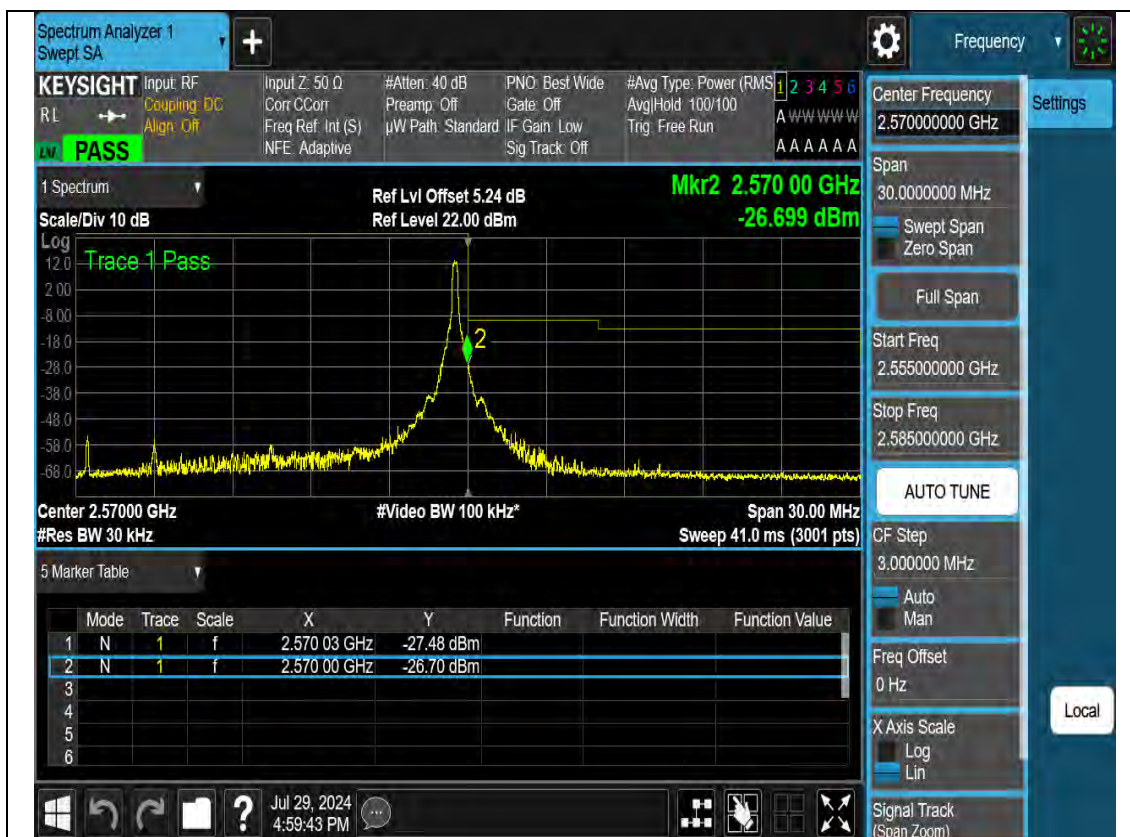
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N7-15M-Bandedge-H-CP-OFDM-QPSK-Outer Full



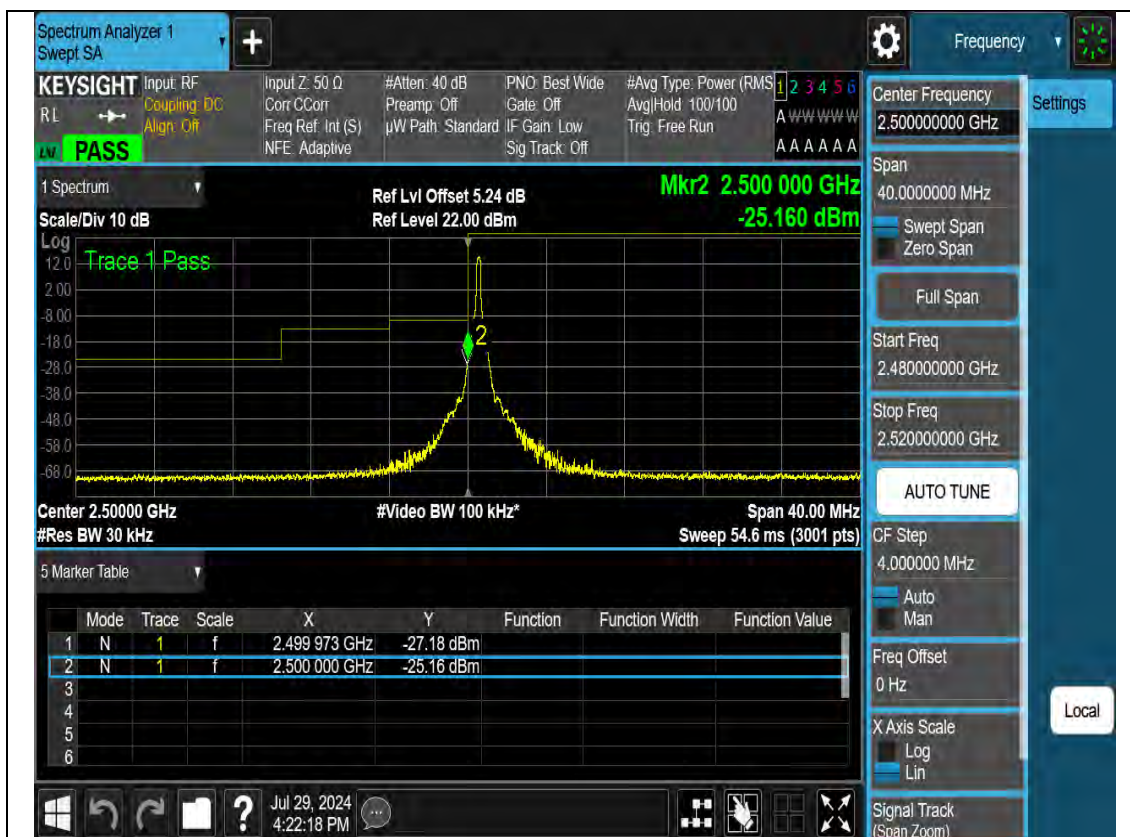
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N7-20M-Bandedge-L-DFT-s-OFDM-Pi2 BPSK-Outer Full



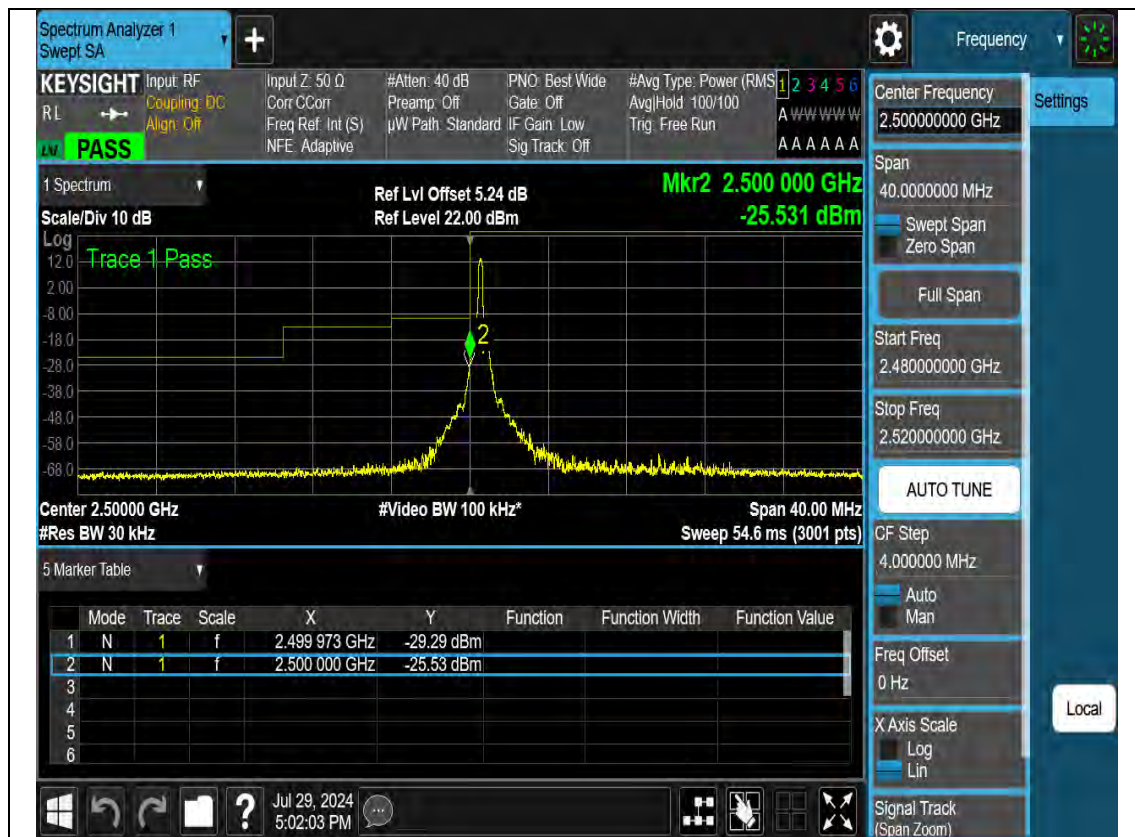
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N7-20M-Bandedge-L-CP-OFDM-QPSK-Outer_Full



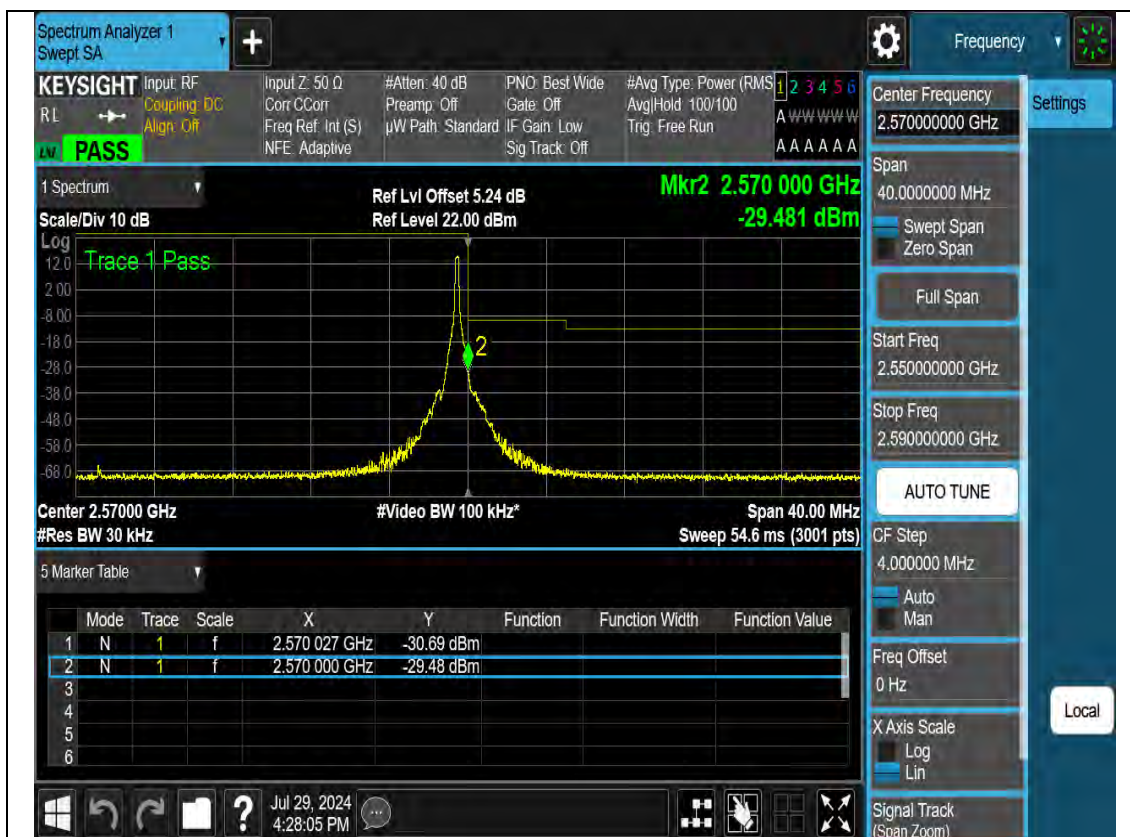
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N7-20M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-Outer Full



N7-20M-Bandedge-H-DFT-s-OFDM-Pi2 BPSK-1RB MAX



N7-20M-Bandedge-H-CP-OFDM-QPSK-Outer Full



N7-20M-Bandedge-H-CP-OFDM-QPSK-1RB MAX



Conducted spurious emissions

test graph







N7-5M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz



N7-5M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-26GHz



N7-5M-CSE-M-CP-OFDM-QPSK-1RB0-30MHz-10GHz



N7-5M-CSE-M-CP-OFDM-QPSK-1RB0-10GHz-26GHz



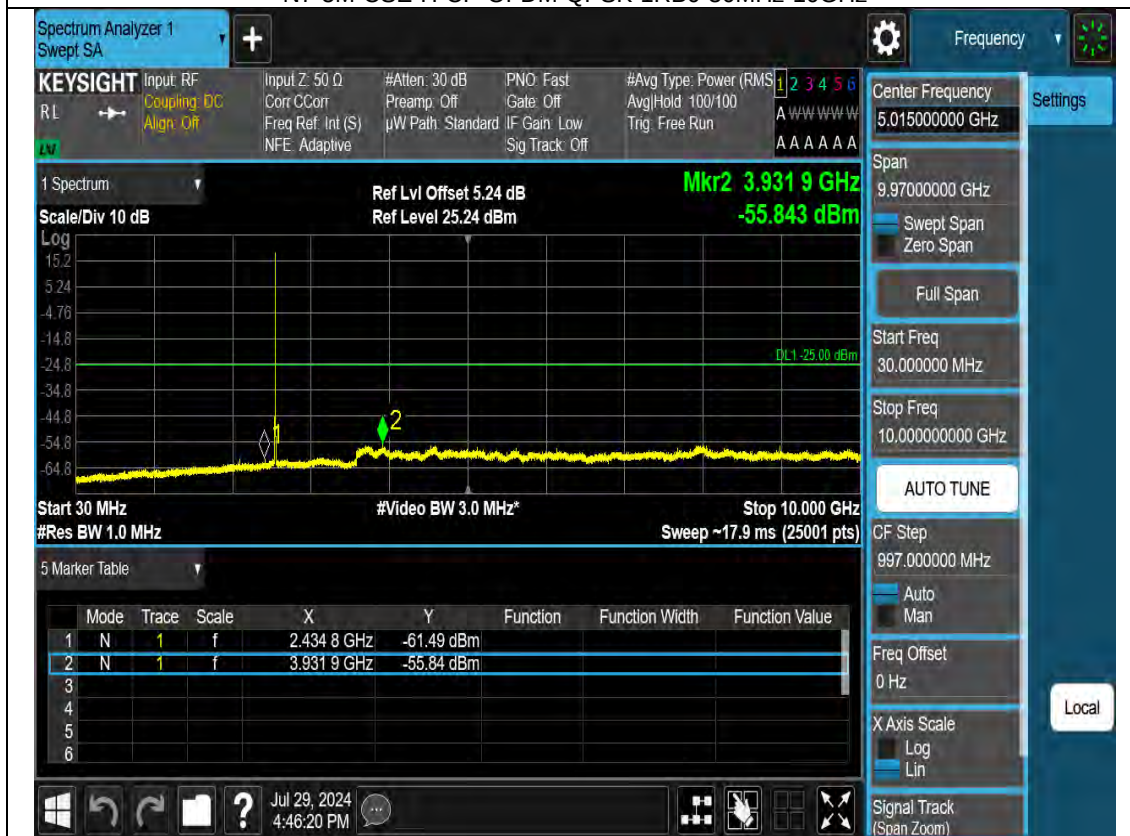
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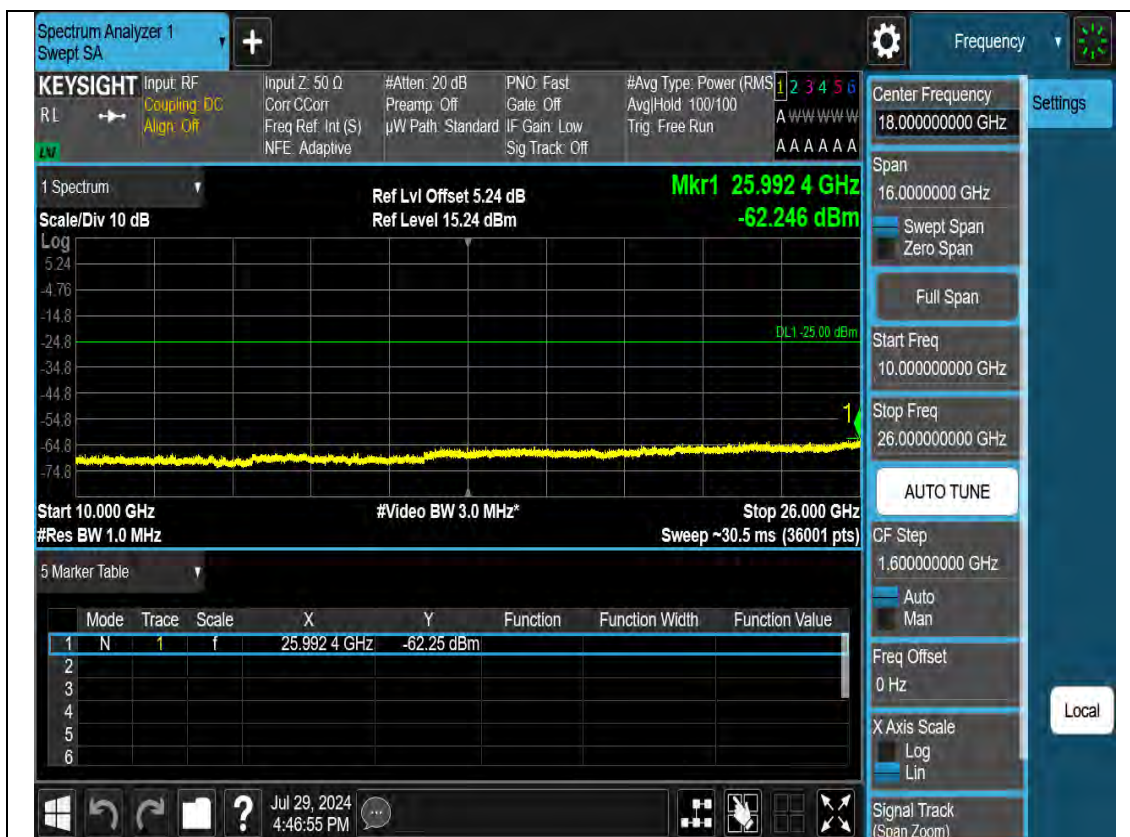
N7-5M-CSE-H-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-26GHz



N7-5M-CSE-H-CP-OFDM-QPSK-1RB0-30MHz-10GHz



N7-5M-CSE-H-CP-OFDM-QPSK-1RB0-10GHz-26GHz



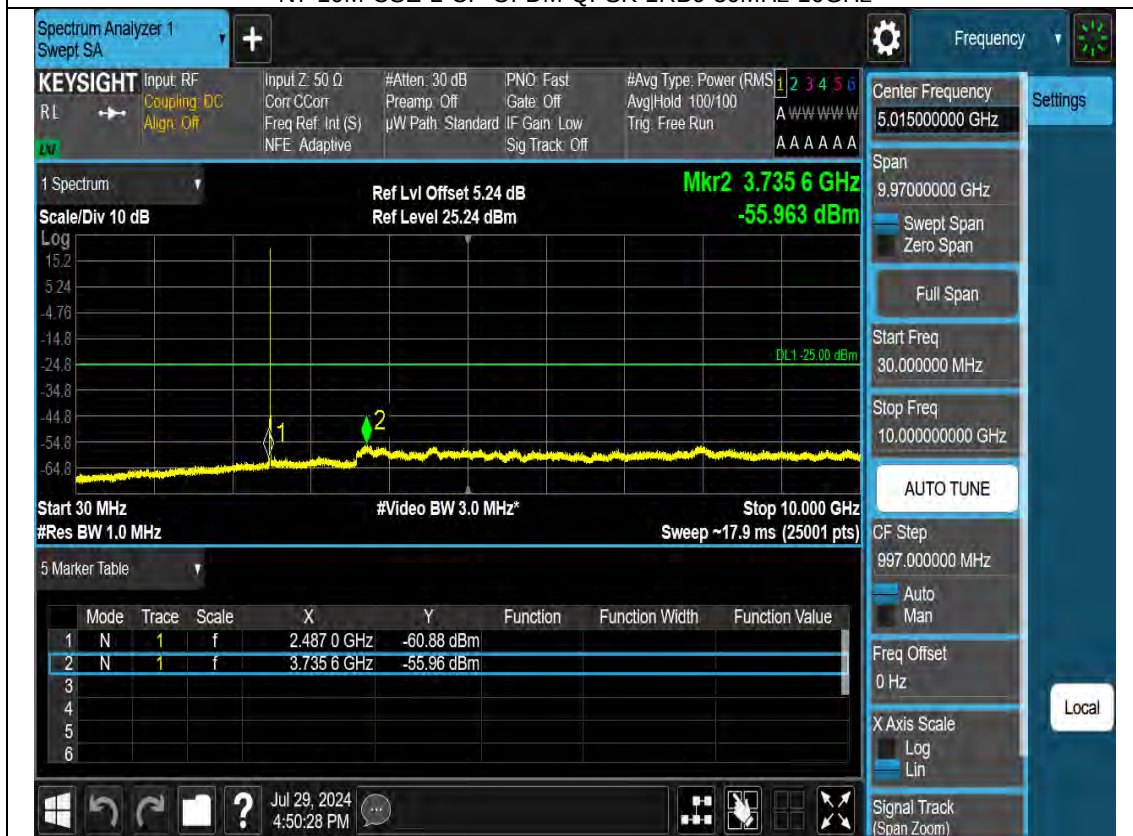
N7-10M-CSE-L-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz



N7-10M-CSE-L-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-26GHz



N7-10M-CSE-L-CP-OFDM-QPSK-1RB0-30MHz-10GHz



N7-10M-CSE-L-CP-OFDM-QPSK-1RB0-10GHz-26GHz



N7-10M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-30MHz-10GHz



N7-10M-CSE-M-DFT-s-OFDM-Pi2 BPSK-1RB0-10GHz-26GHz



N7-10M-CSE-M-CP-OFDM-QPSK-1RB0-30MHz-10GHz



N7-10M-CSE-M-CP-OFDM-QPSK-1RB0-10GHz-26GHz