

99% & 26dB Bandwidth

Test Result

5G NR N48 SCS=30kHz 10MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	8.5838	9.724	/	Pass
CP-OFDM QPSK		Outer_Full	8.6166	9.73	/	Pass
DFT-s-OFDM PI/2 BPSK	Middle	Outer_Full	8.5931	9.645	/	Pass
CP-OFDM QPSK		Outer_Full	8.6304	9.94	/	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	8.6139	9.957	/	Pass
CP-OFDM QPSK		Outer_Full	8.6239	9.88	/	Pass

5G NR N48 SCS=30kHz 15MHz						
Modulation	CH	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	12.918	14.2	/	Pass
CP-OFDM QPSK		Outer_Full	13.688	15.2	/	Pass
DFT-s-OFDM PI/2 BPSK	Middle	Outer_Full	12.898	14.4	/	Pass
CP-OFDM QPSK		Outer_Full	13.666	15.12	/	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	12.948	14.26	/	Pass
CP-OFDM QPSK		Outer_Full	13.66	15.06	/	Pass

5G NR N48 SCS=30kHz 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	19.19	/	Pass
CP-OFDM QPSK		Outer_Full	18.199	19.59	/	Pass
DFT-s-OFDM PI/2 BPSK	Middle	Outer_Full	17.856	19.04	/	Pass
CP-OFDM QPSK		Outer_Full	18.257	19.8	/	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	17.857	18.97	/	Pass
CP-OFDM QPSK		Outer_Full	18.248	19.74	/	Pass

Peak-Average Ratio

Test Result

5G NR N48 SCS=30kHz 10MHz					
Modulation	CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	4.27	<=13	Pass
CP-OFDM QPSK		Outer_Full	4.29	<=13	Pass
DFT-s-OFDM PI/2 BPSK	Middle	Outer_Full	4.3	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.07	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	4.47	<=13	Pass
CP-OFDM QPSK		Outer_Full	6.73	<=13	Pass

5G NR N48 SCS=30kHz 15MHz					
Modulation	CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	4.11	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.07	<=13	Pass
DFT-s-OFDM PI/2 BPSK	Middle	Outer_Full	4.23	<=13	Pass
CP-OFDM QPSK		Outer_Full	6.94	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	4.52	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.14	<=13	Pass

5G NR N48 SCS=30kHz 20MHz					
Modulation	CH	RB Allocation	Peak-Average Ratio (dB)	Limit	Verdict
DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	4.19	<=13	Pass
CP-OFDM QPSK		Outer_Full	6.69	<=13	Pass
DFT-s-OFDM PI/2 BPSK	Middle	Outer_Full	4.19	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.51	<=13	Pass
DFT-s-OFDM PI/2 BPSK	High	Outer_Full	4.39	<=13	Pass
CP-OFDM QPSK		Outer_Full	7.28	<=13	Pass

Adjacent Channel Power

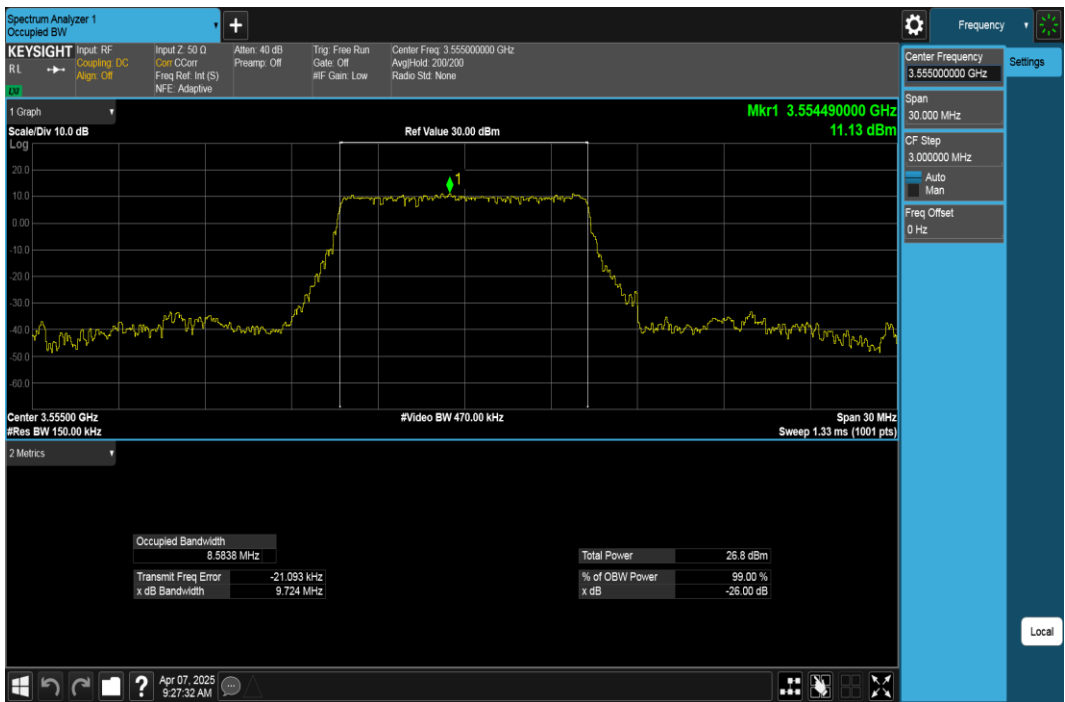
5G NR N48 SCS=30kHz 10MHz						
Modulation	CH	RB Allocation	Channel Spacing (MHz)		Limit (dBc)	Verdict
			-10	+10		
DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	45.39	45.17	≥30	Pass
		1RB0	41.99	64.07	≥30	Pass
		1RB_Max	64.39	41.34	≥30	Pass
	Middle	Outer_Full	42.09	42.44	≥30	Pass
		1RB0	39.97	61.24	≥30	Pass
		1RB_Max	61.58	40.98	≥30	Pass
	Middle	Outer_Full	44.74	44.7	≥30	Pass
		1RB0	42.75	54.97	≥30	Pass
		1RB_Max	54.79	42.18	≥30	Pass
CP-OFDM QPSK	Low	Outer_Full	41.27	42.05	≥30	Pass
		1RB0	40.14	53.37	≥30	Pass
		1RB_Max	52.39	41.21	≥30	Pass
	Middle	Outer_Full	45.59	44.83	≥30	Pass
		1RB0	41.49	55.19	≥30	Pass
		1RB_Max	55.39	41.3	≥30	Pass
	Middle	Outer_Full	41.12	41.08	≥30	Pass
		1RB0	40.71	53.03	≥30	Pass
		1RB_Max	52.97	40.94	≥30	Pass

5G NR N48 SCS=30kHz 15MHz						
Modulation	CH	RB Allocation	Channel Spacing (MHz)		Limit (dBc)	Verdict
			-15	+15		
DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	45.07	47.71	≥30	Pass
		1RB0	37.08	62.78	≥30	Pass
		1RB_Max	62.92	38.42	≥30	Pass
	Middle	Outer_Full	41.73	42.54	≥30	Pass
		1RB0	37.65	60.91	≥30	Pass
		1RB_Max	60.58	39.08	≥30	Pass
	Middle	Outer_Full	44.13	47.88	≥30	Pass
		1RB0	38.66	54.19	≥30	Pass
		1RB_Max	53.3	38.57	≥30	Pass
CP-OFDM QPSK	Low	Outer_Full	41.07	41.9	≥30	Pass
		1RB0	36.62	51.33	≥30	Pass
		1RB_Max	50.97	37.65	≥30	Pass
	Middle	Outer_Full	45.98	47.96	≥30	Pass
		1RB0	37.26	53.76	≥30	Pass
		1RB_Max	53.91	39	≥30	Pass
	Middle	Outer_Full	41.82	41.87	≥30	Pass
		1RB0	37.83	51.46	≥30	Pass
		1RB_Max	51.76	38.01	≥30	Pass

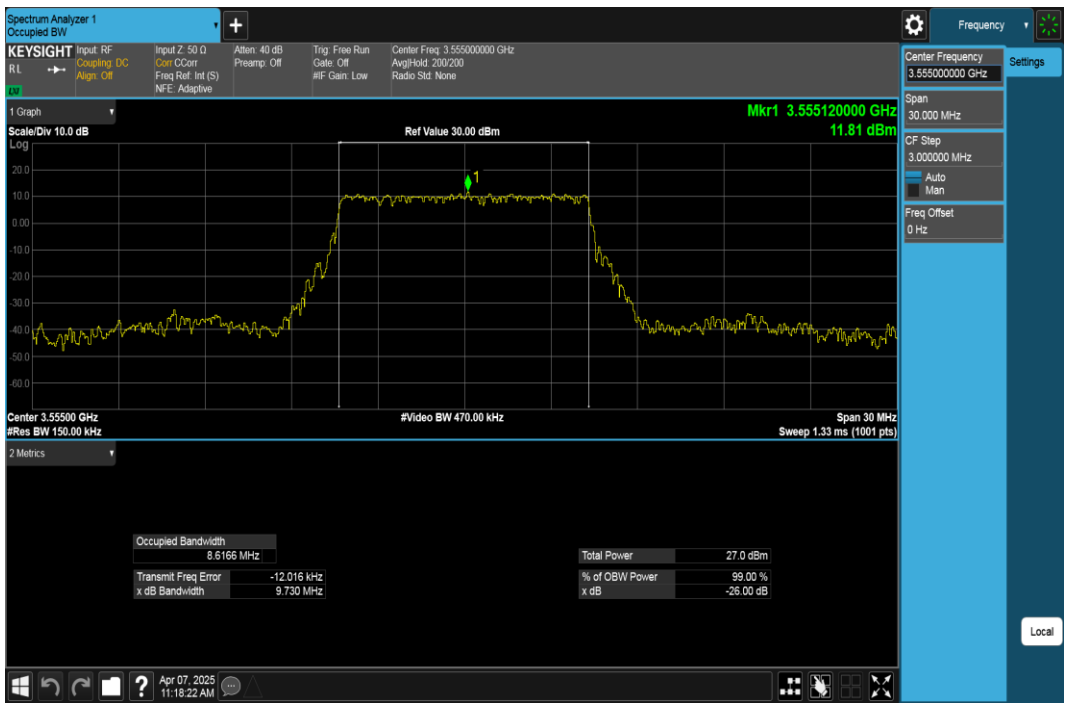
5G NR N48 SCS=30kHz 20MHz						
Modulation	CH	RB Allocation	Channel Spacing (MHz)		Limit (dBc)	Verdict
			-20	+20		
DFT-s-OFDM PI/2 BPSK	Low	Outer_Full	46.17	49.93	≥ 30	Pass
		1RB0	41.54	61.84	≥ 30	Pass
		1RB_Max	62.06	42.95	≥ 30	Pass
	Middle	Outer_Full	41.97	43	≥ 30	Pass
		1RB0	42.11	58.79	≥ 30	Pass
		1RB_Max	59.21	42.97	≥ 30	Pass
	Middle	Outer_Full	44.45	45.97	≥ 30	Pass
		1RB0	41.33	52.97	≥ 30	Pass
		1RB_Max	52.08	42.18	≥ 30	Pass
CP-OFDM QPSK	Low	Outer_Full	40.92	41.86	≥ 30	Pass
		1RB0	40.9	50.49	≥ 30	Pass
		1RB_Max	50.34	42.06	≥ 30	Pass
	Middle	Outer_Full	46.93	47.58	≥ 30	Pass
		1RB0	42.37	52.67	≥ 30	Pass
		1RB_Max	52.62	42.47	≥ 30	Pass
	Middle	Outer_Full	41.67	41.48	≥ 30	Pass
		1RB0	40.65	50.36	≥ 30	Pass
		1RB_Max	50.35	41.21	≥ 30	Pass

OBW Test graph

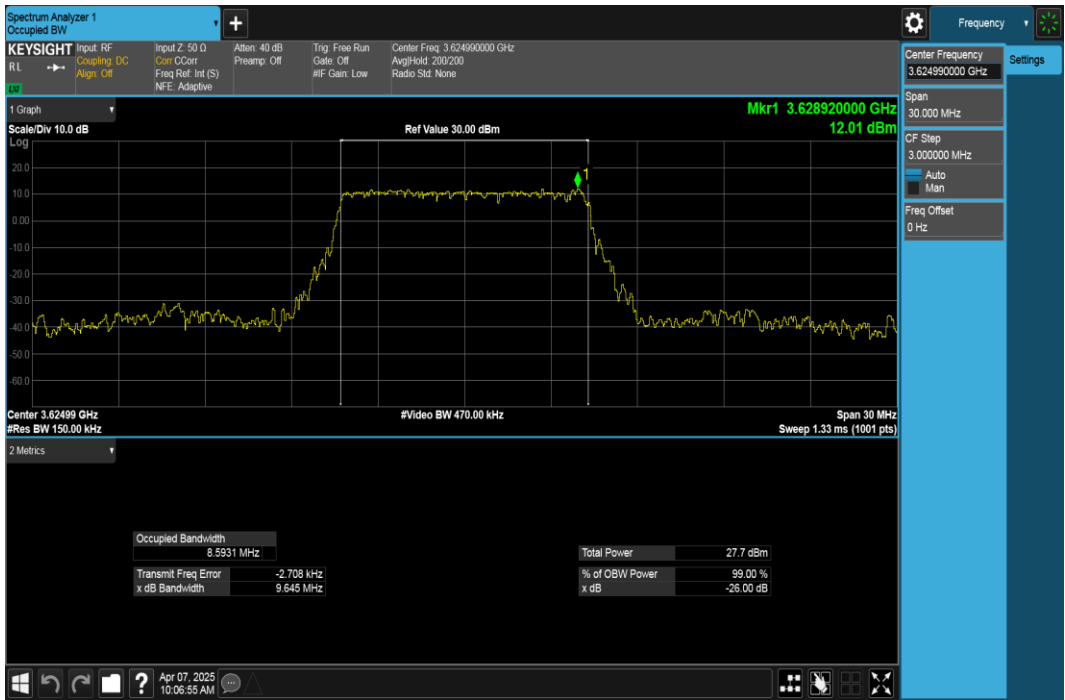
N48-10M-OBW-LCH-DFT-s-OFDM-Pi2 BPSK-Outer_Full



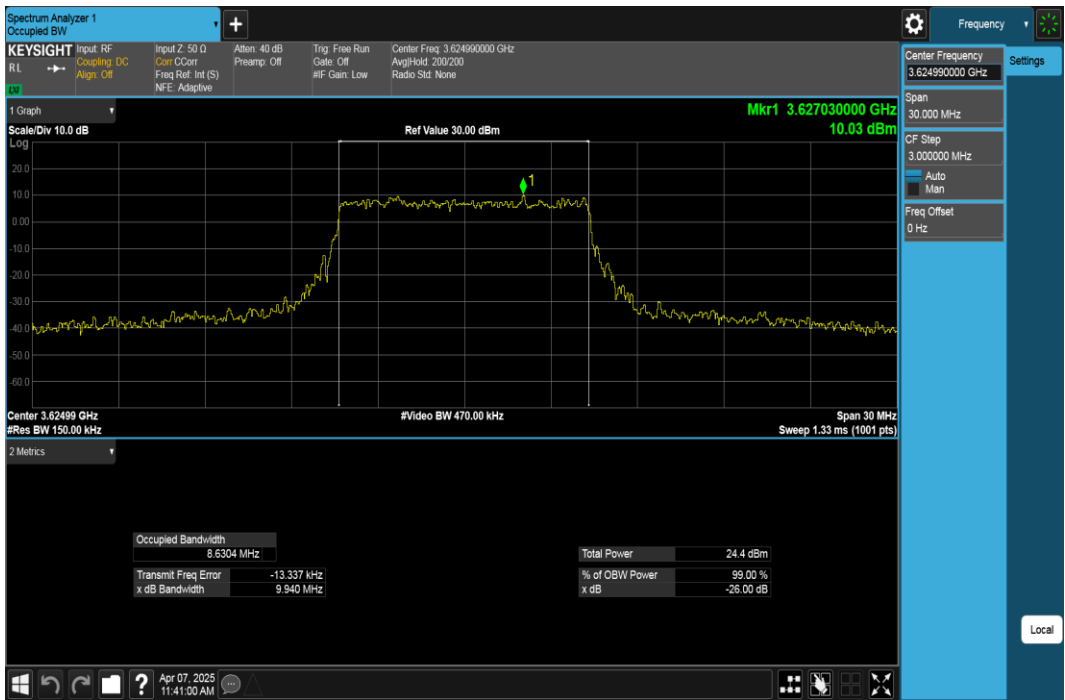
N48-10M-OBW-LCH-CP-OFDM-QPSK-Outer_Full



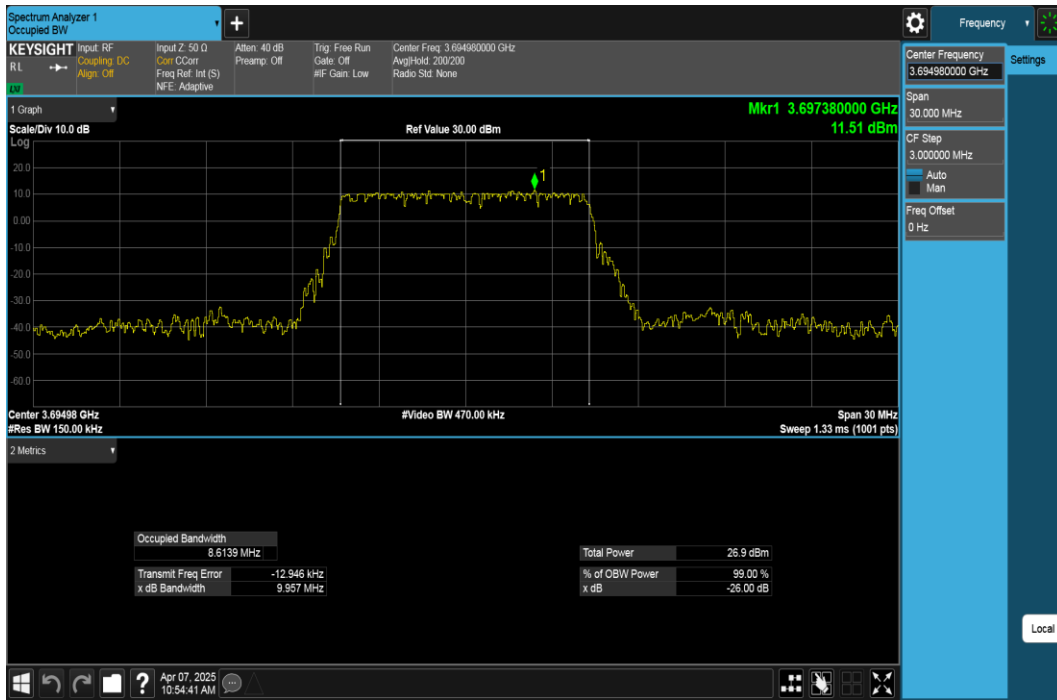
N48-10M-OBW-MCH-DFT-s-OFDM-Pi2 BPSK-Outer_Full



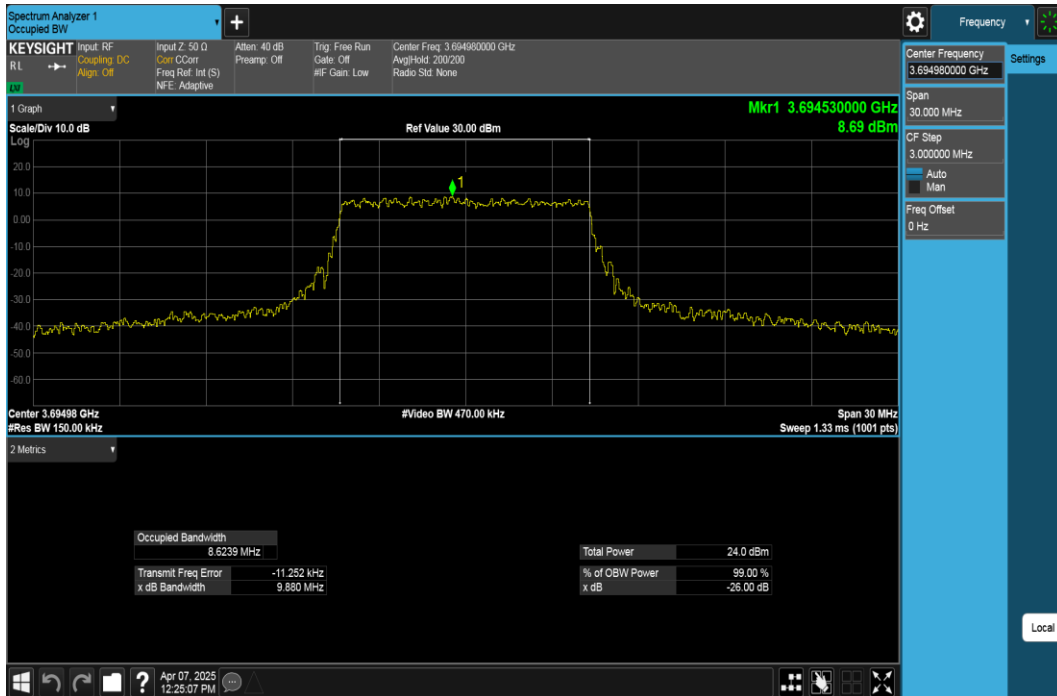
N48-10M-OBW-MCH-CP-OFDM-QPSK-Outer_Full



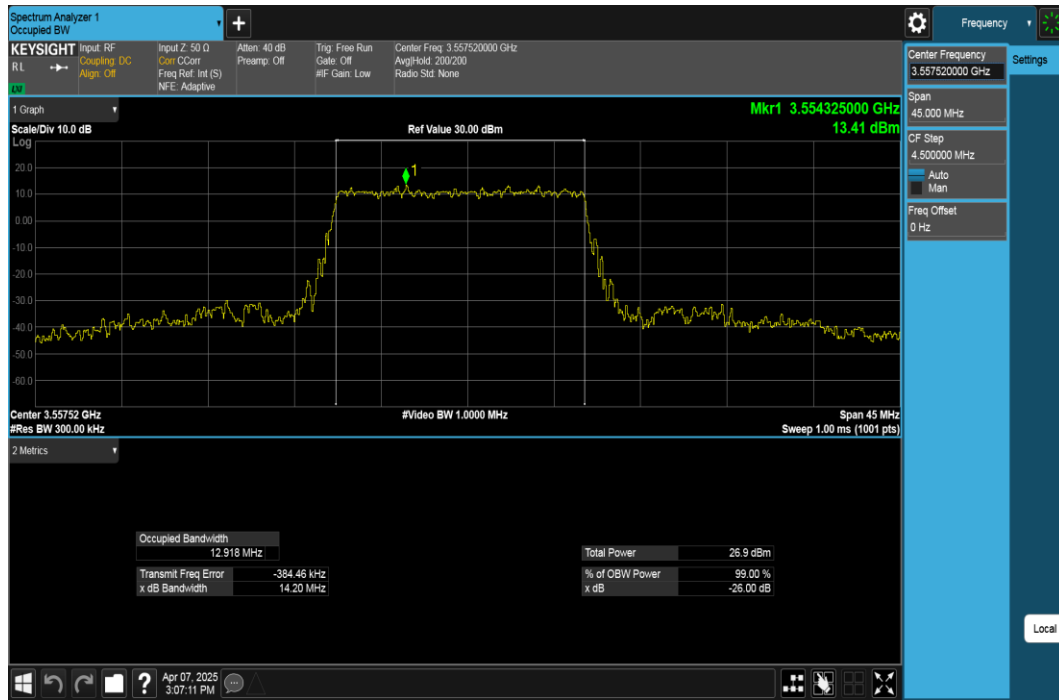
N48-10M-OBW-HCH-DFT-s-OFDM-Pi2 BPSK-Outer_Full



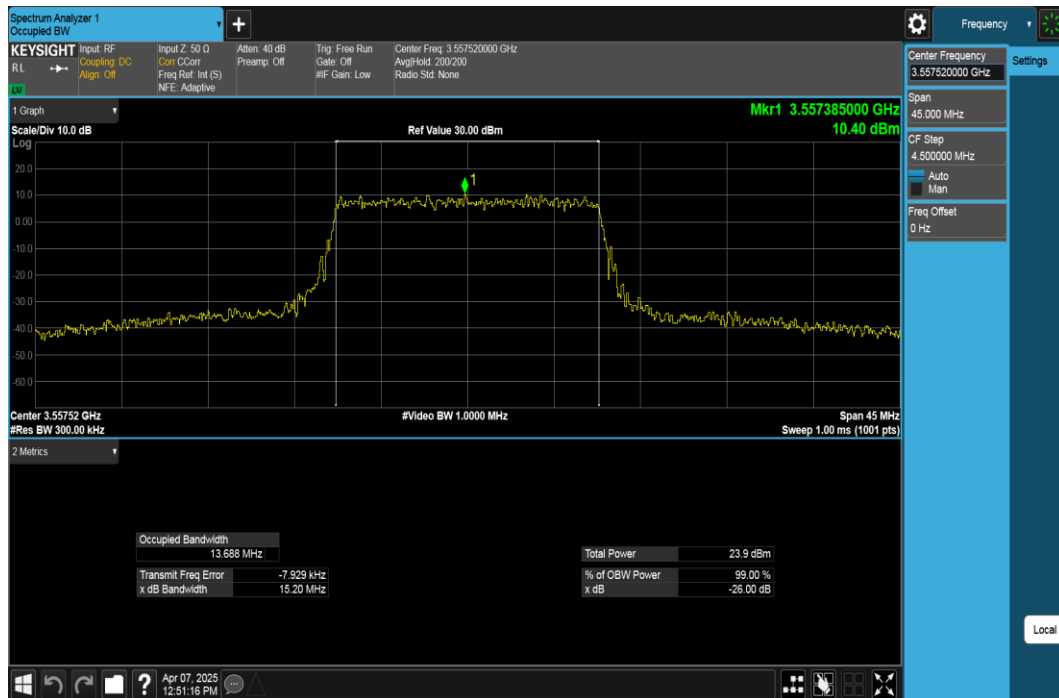
N48-10M-OBW-HCH-CP-OFDM-QPSK-Outer_Full



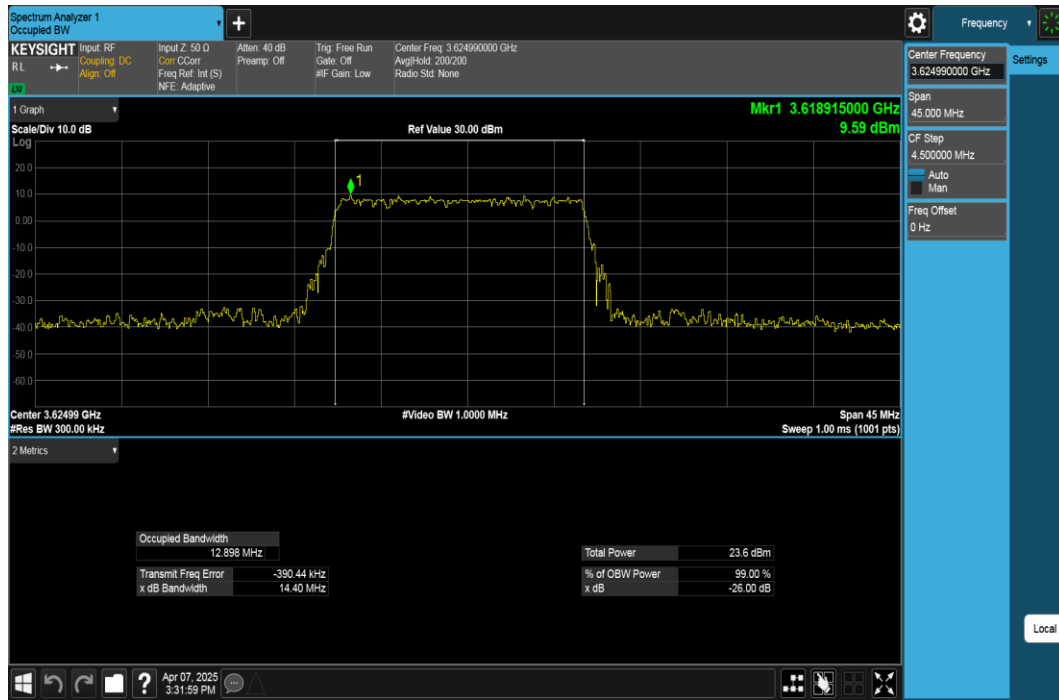
N48-15M-OBW-LCH-DFT-s-OFDM-Pi2 BPSK-Outer_Full



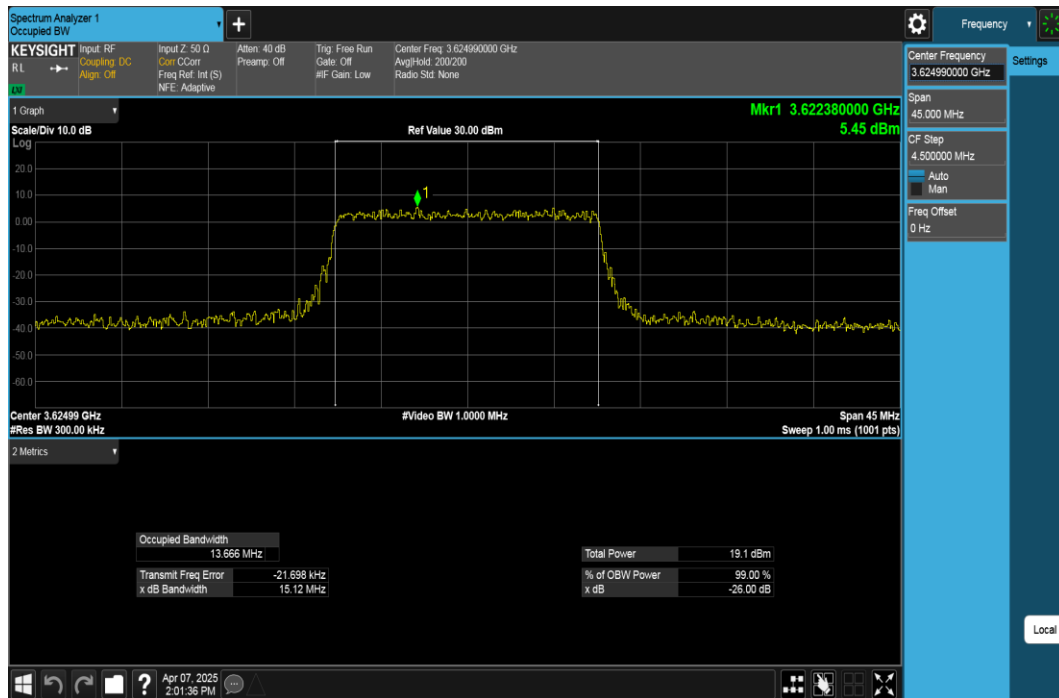
N48-15M-OBW-LCH-CP-OFDM-QPSK-Outer_Full



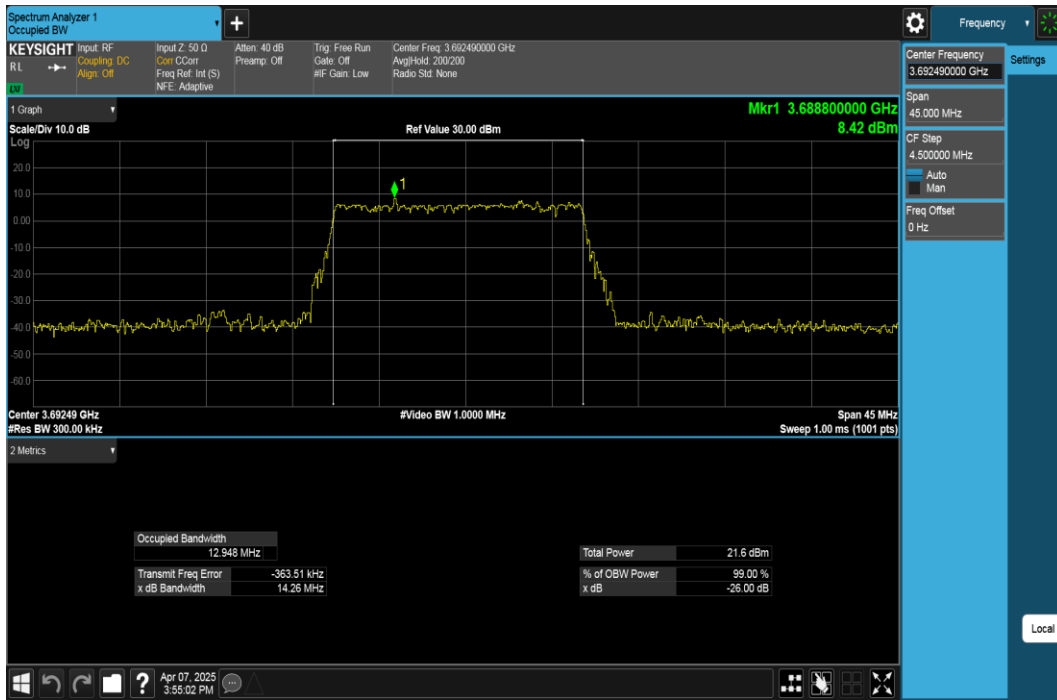
N48-15M-OBW-MCH-DFT-s-OFDM-Pi2 BPSK-Outer_Full



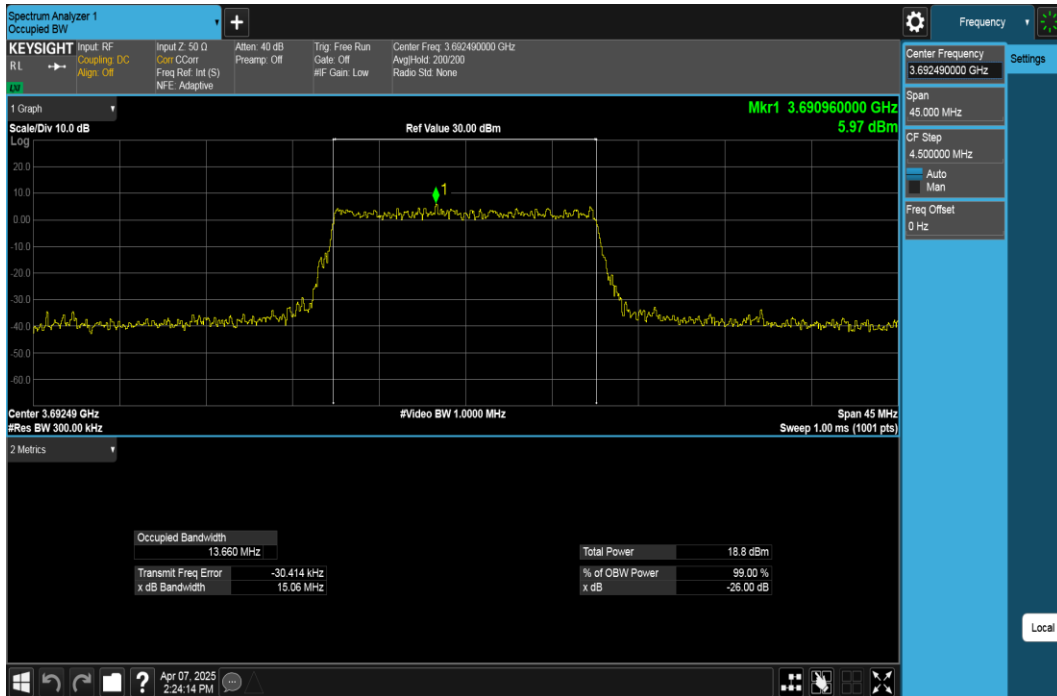
N48-15M-OBW-MCH-CP-OFDM-QPSK-Outer_Full



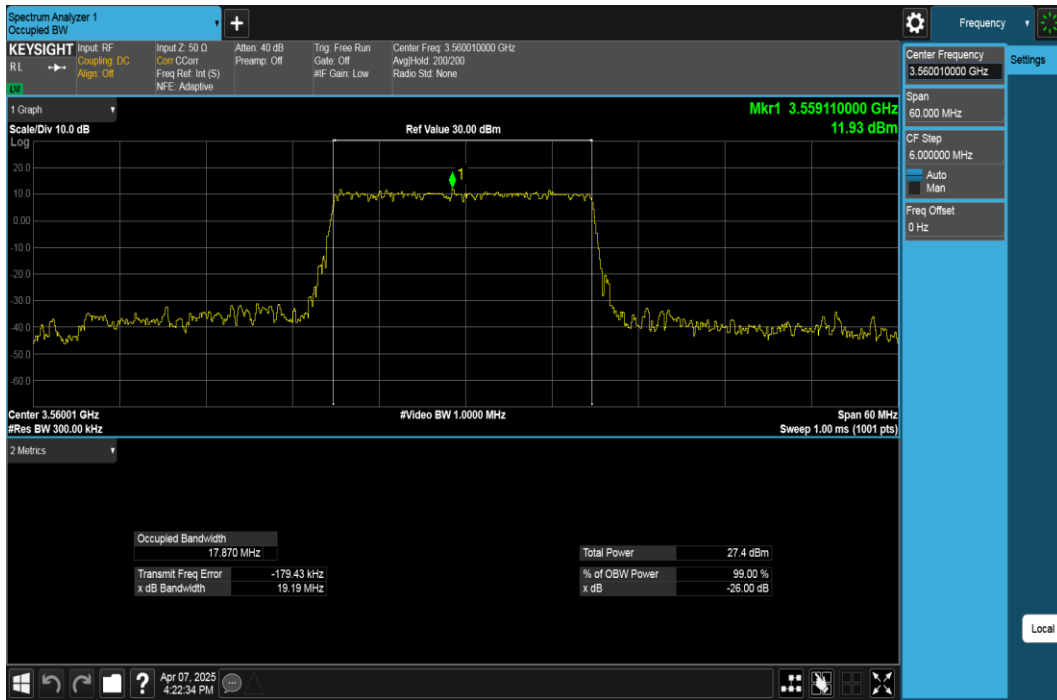
N48-15M-OBW-HCH-DFT-s-OFDM-Pi2 BPSK-Outer_Full



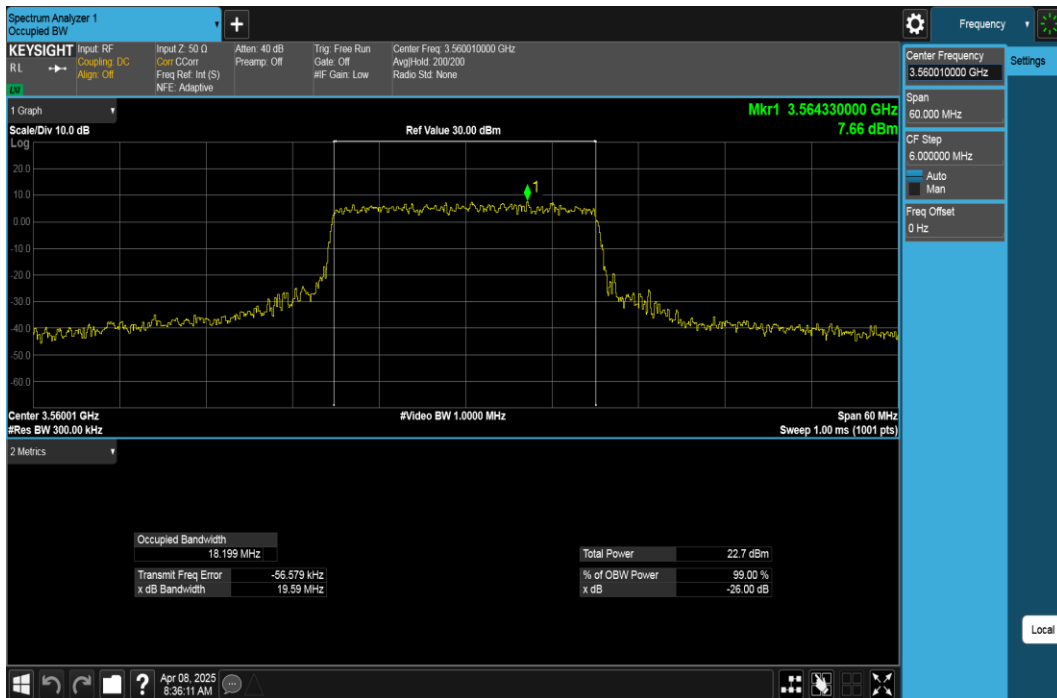
N48-15M-OBW-HCH-CP-OFDM-QPSK-Outer_Full



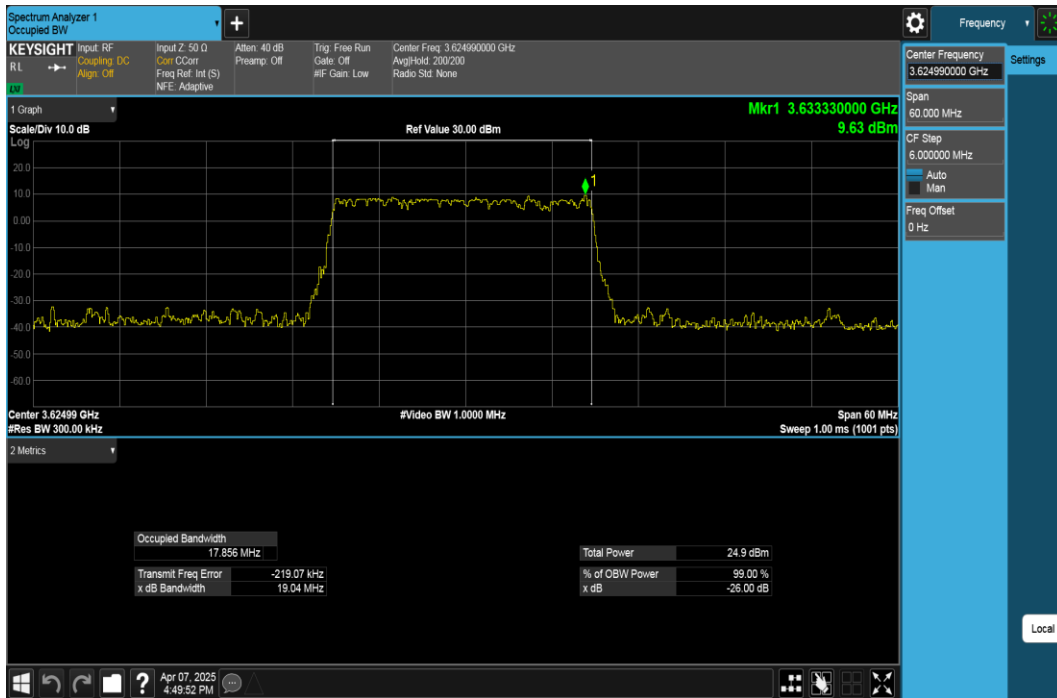
N48-20M-OBW-LCH-DFT-s-OFDM-Pi2 BPSK-Outer_Full



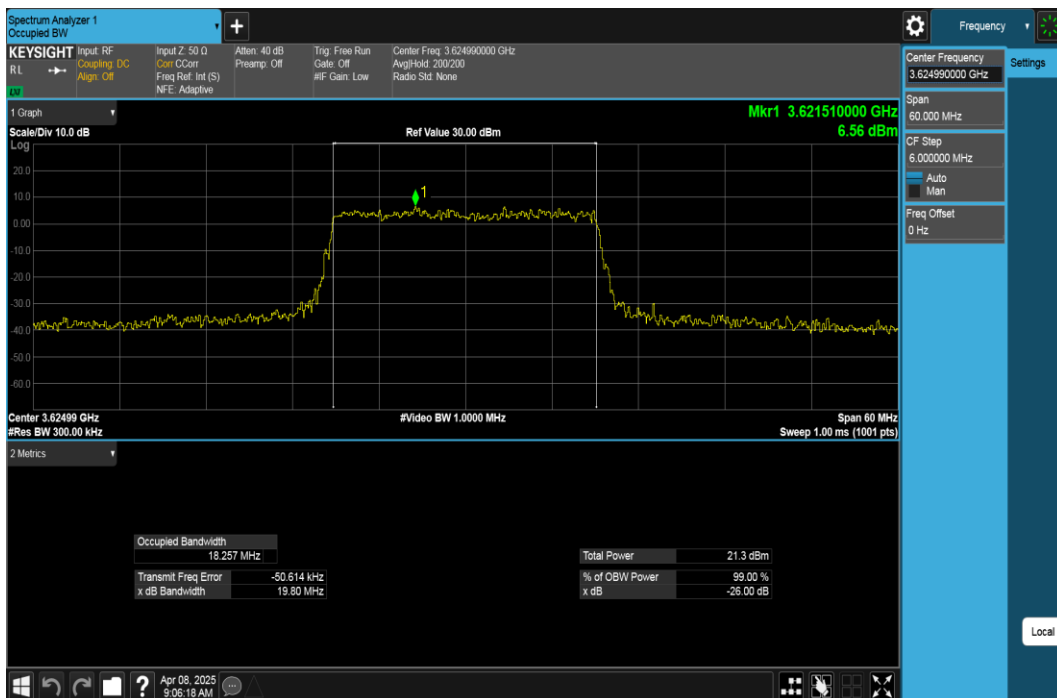
N48-20M-OBW-LCH-CP-OFDM-QPSK-Outer_Full



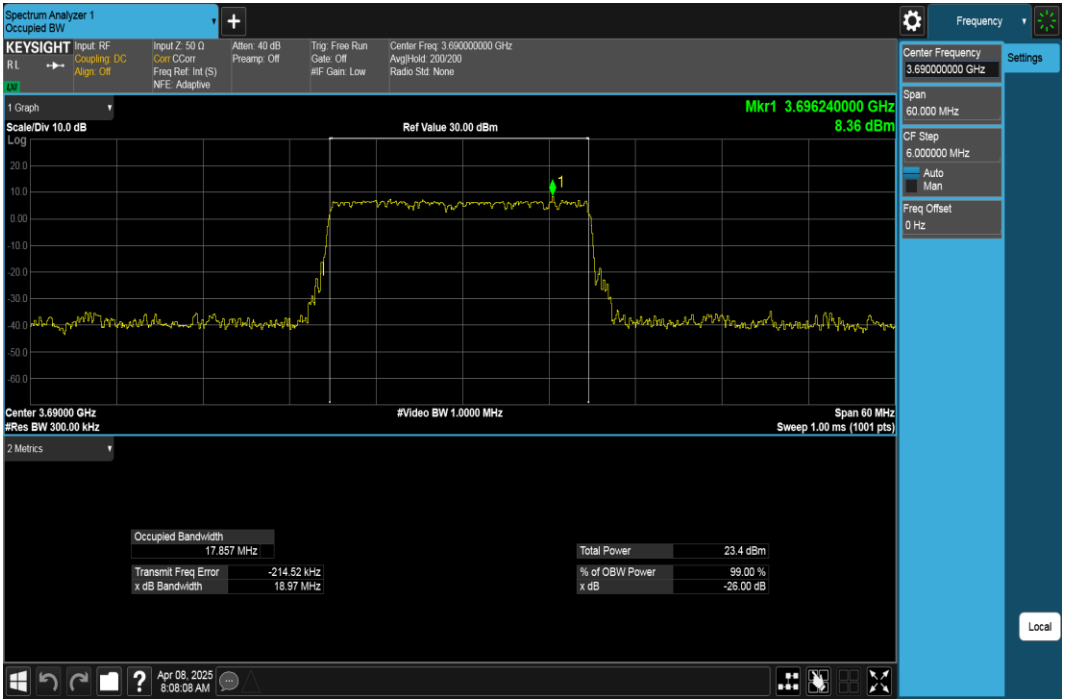
N48-20M-OBW-MCH-DFT-s-OFDM-Pi2 BPSK-Outer_Full



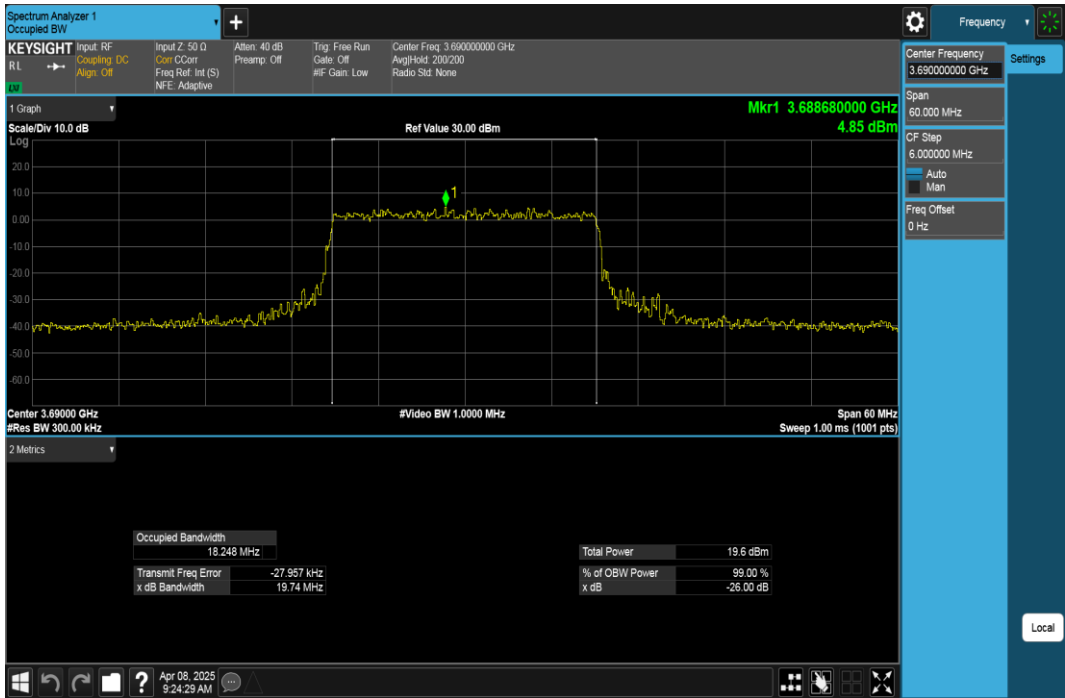
N48-20M-OBW-MCH-CP-OFDM-QPSK-Outer_Full



N48-20M-OBW-HCH-DFT-s-OFDM-Pi2 BPSK-Outer_Full

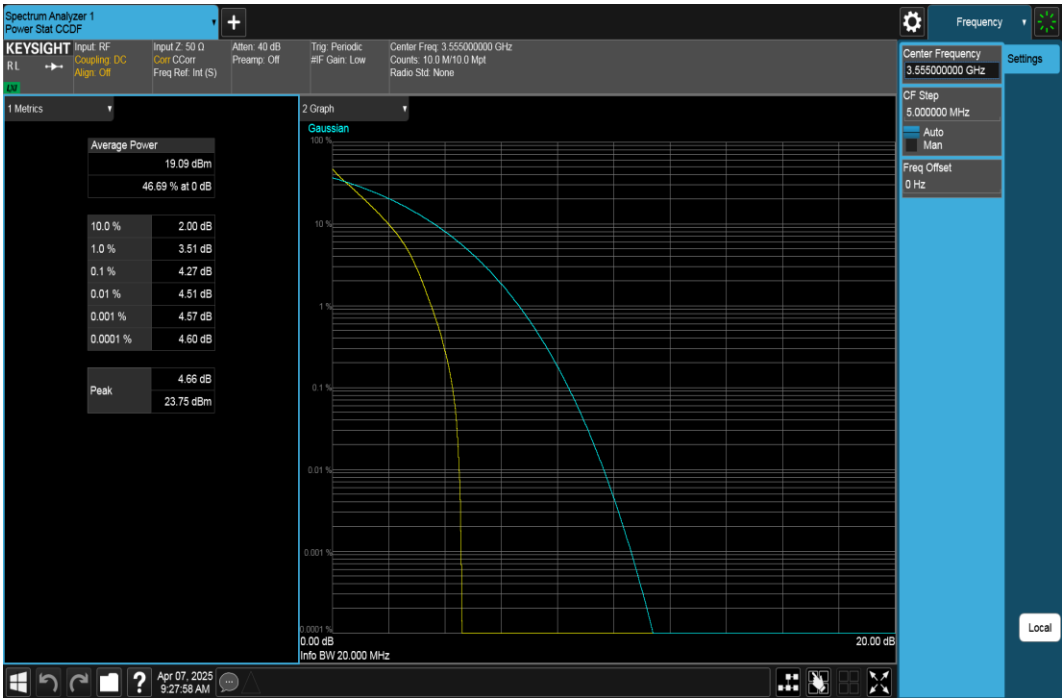


N48-20M-OBW-HCH-CP-OFDM-QPSK-Outer_Full

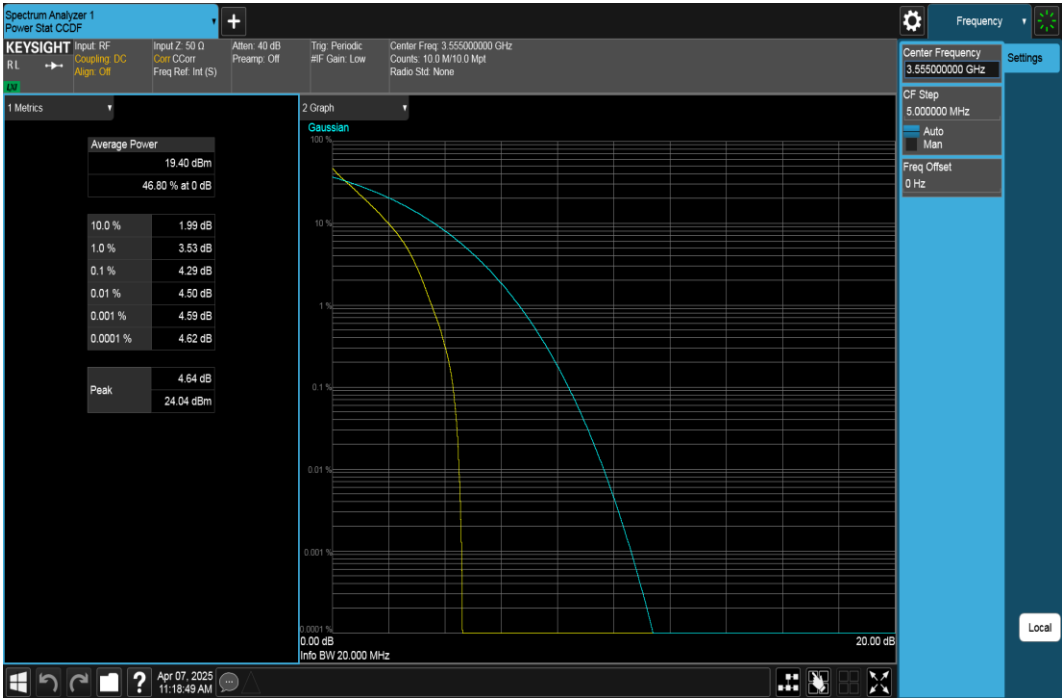


PAPR Test graph

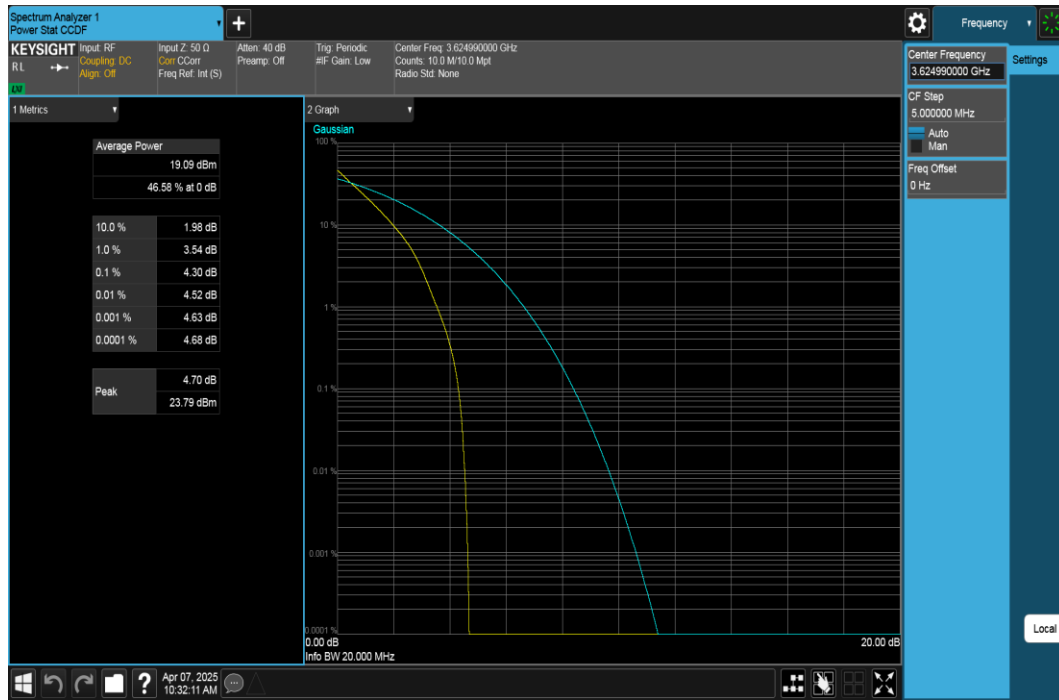
N48-10M-PAPR-LCH-DFT-s-OFDM-Pi2 BPSK-Outer_Full



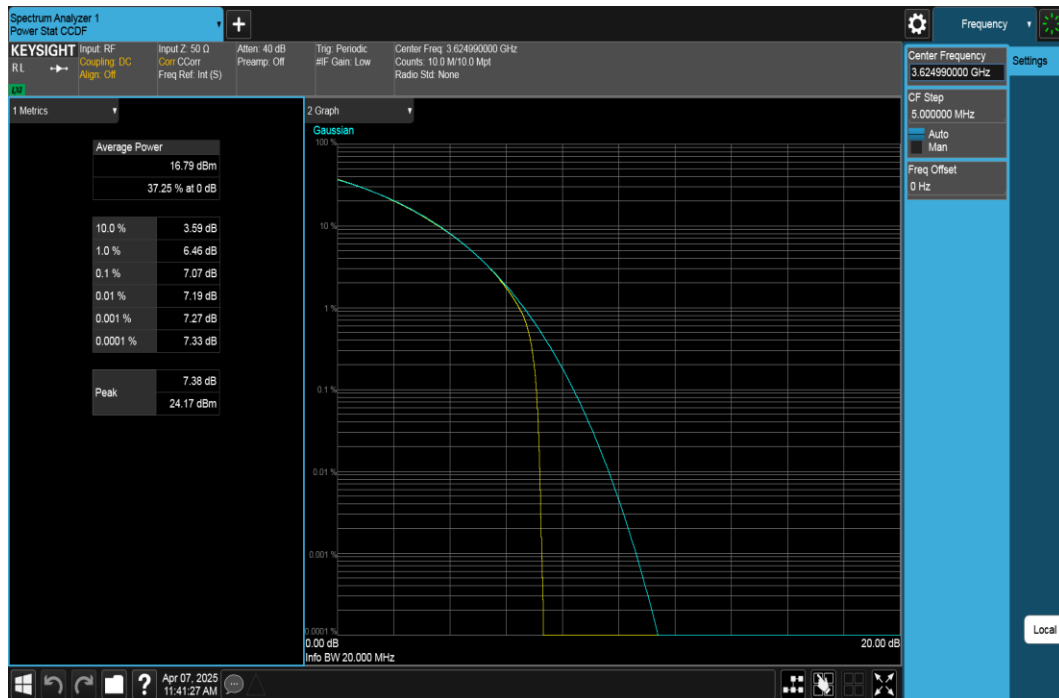
N48-10M-PAPR-LCH-CP-OFDM-QPSK-Outer_Full



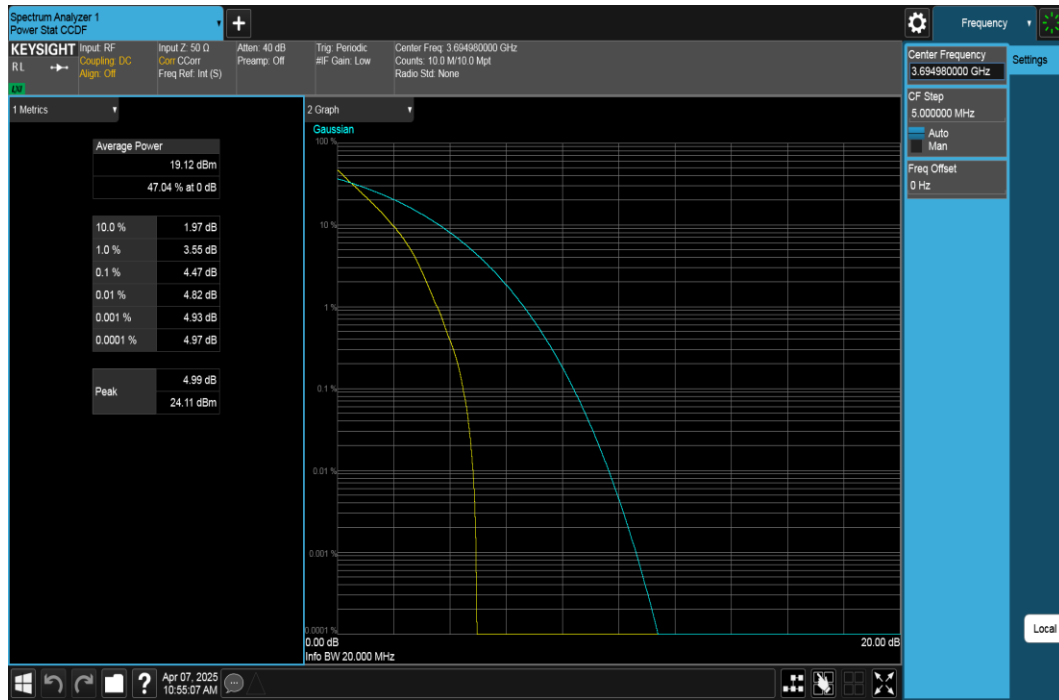
N48-10M-PAPR-MCH-DFT-s-OFDM-Pi2 BPSK-Outer_Full



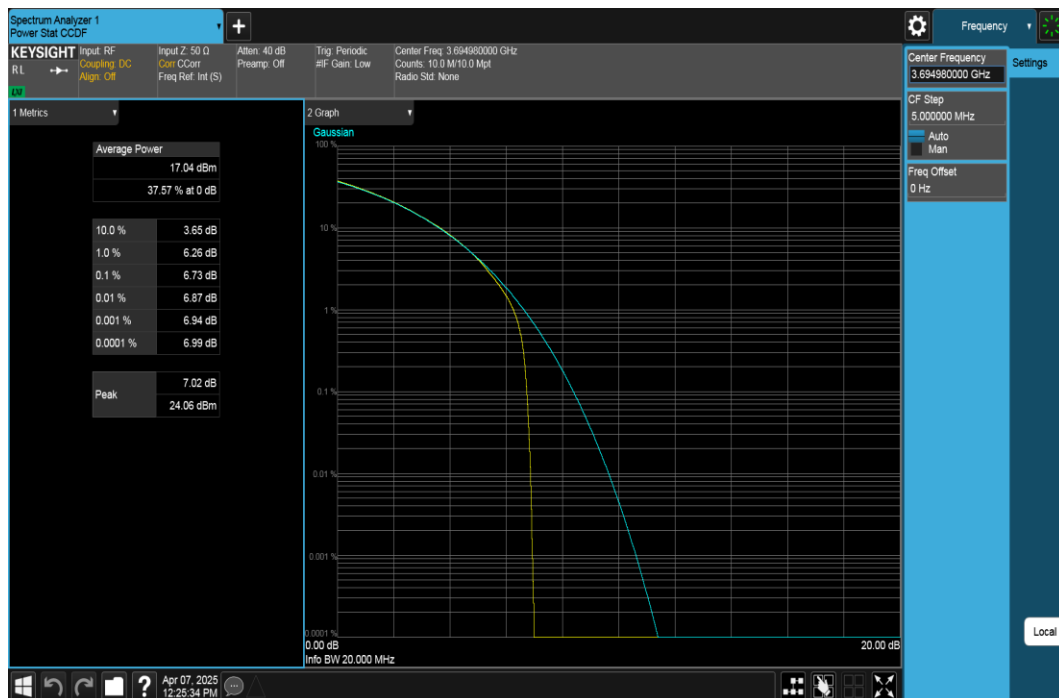
N48-10M-PAPR-MCH-CP-OFDM-QPSK-Outer_Full



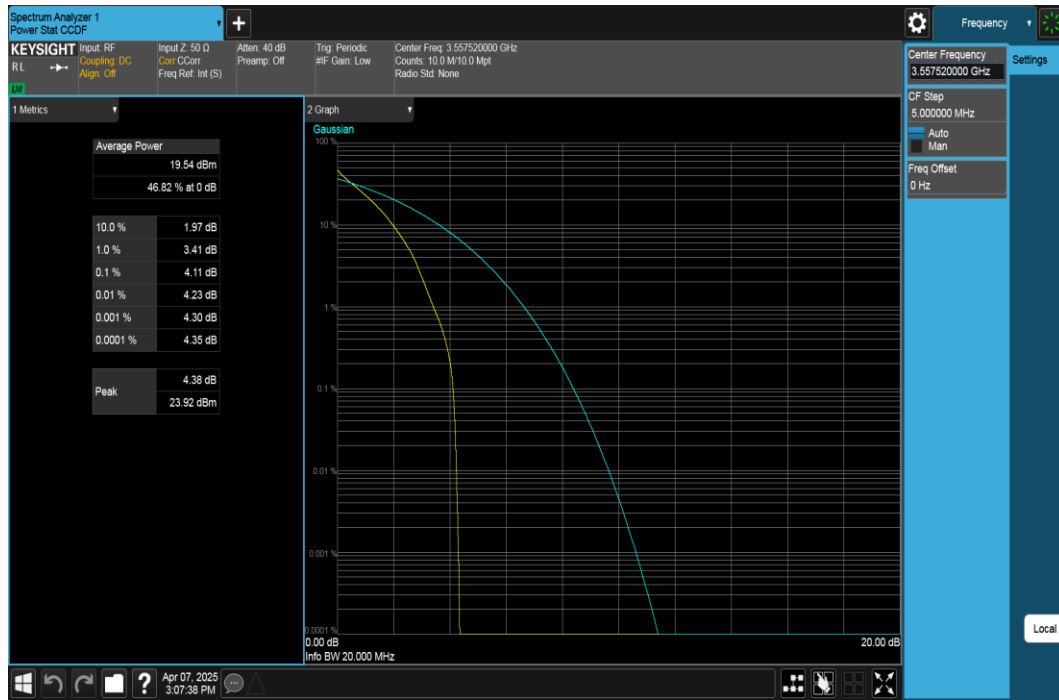
N48-10M-PAPR-HCH-DFT-s-OFDM-Pi2 BPSK-Outer_Full



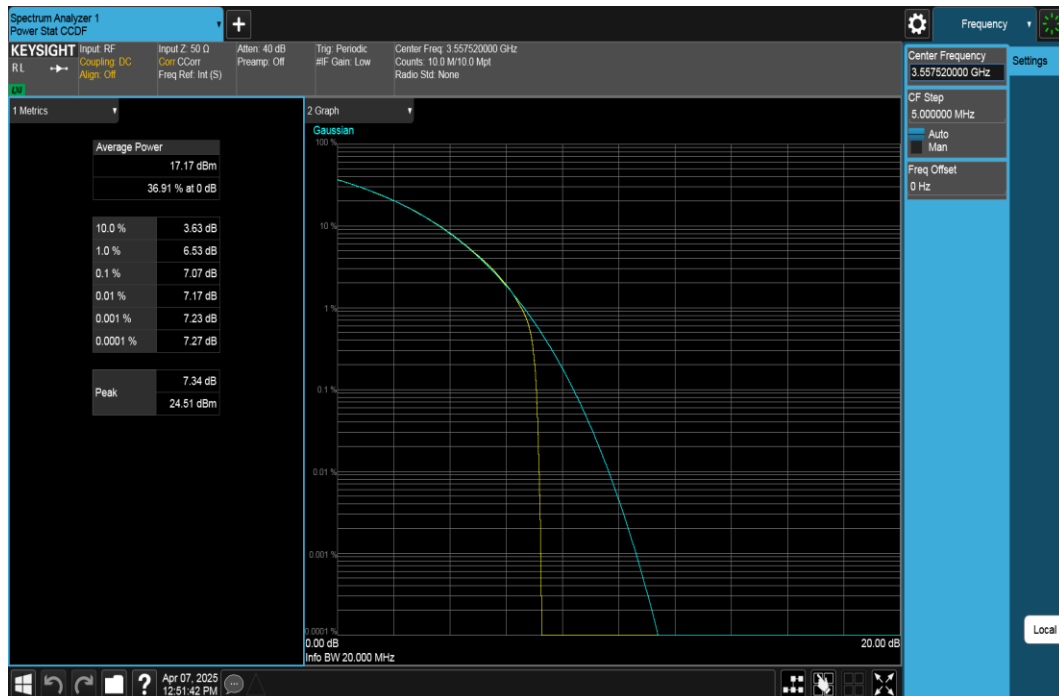
N48-10M-PAPR-HCH-CP-OFDM-QPSK-Outer_Full



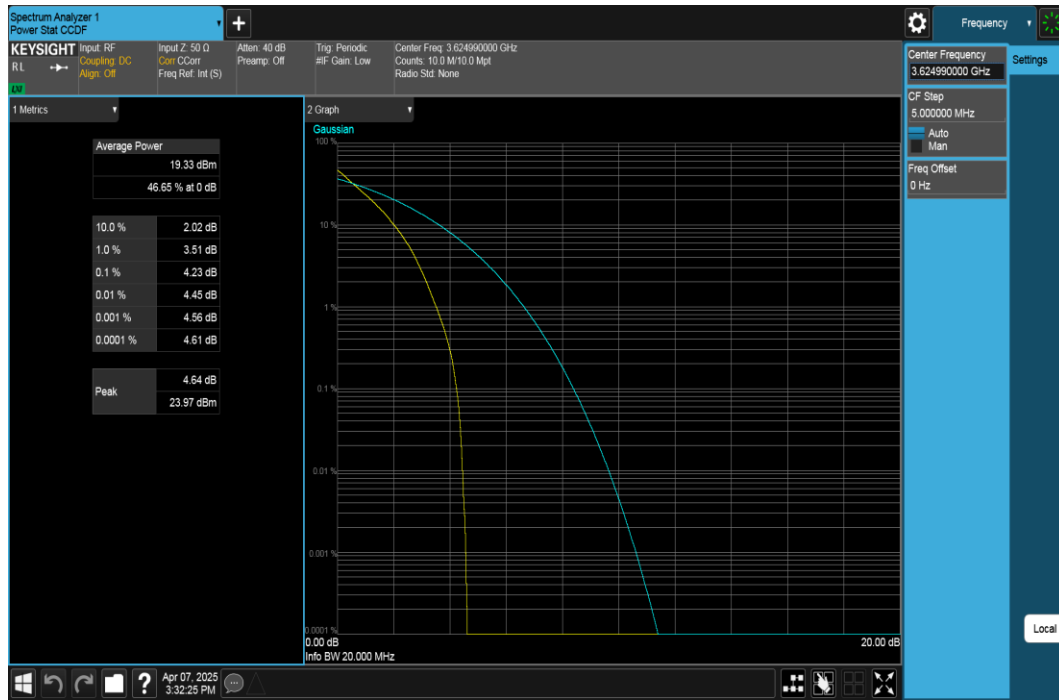
N48-15M-PAPR-LCH-DFT-s-OFDM-Pi2 BPSK-Outer_Full



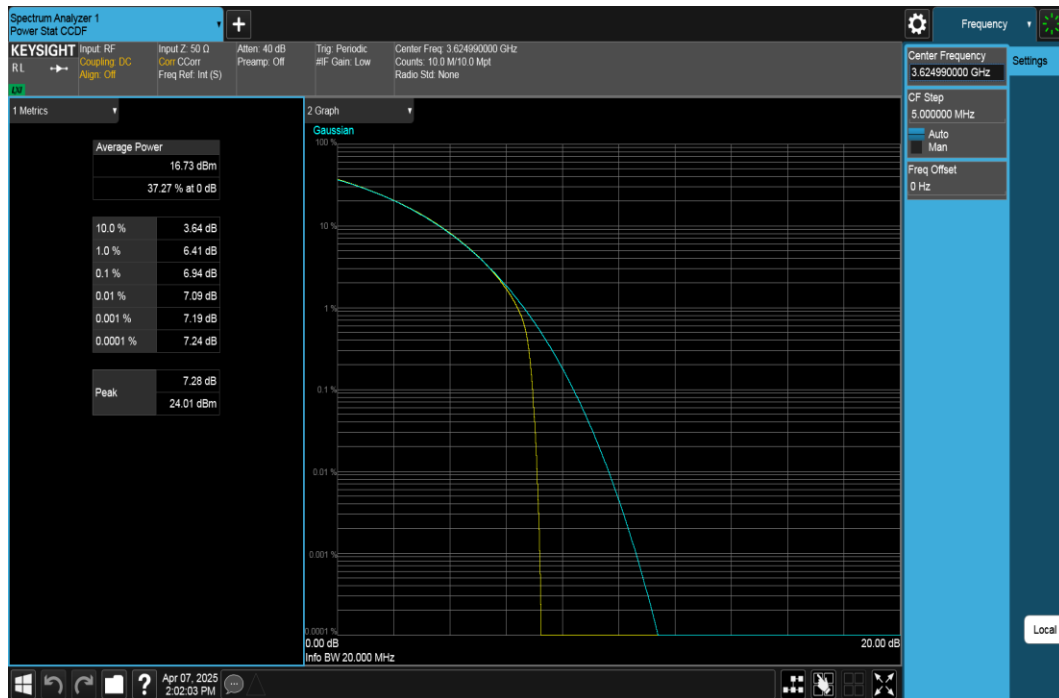
N48-15M-PAPR-LCH-CP-OFDM-QPSK-Outer_Full



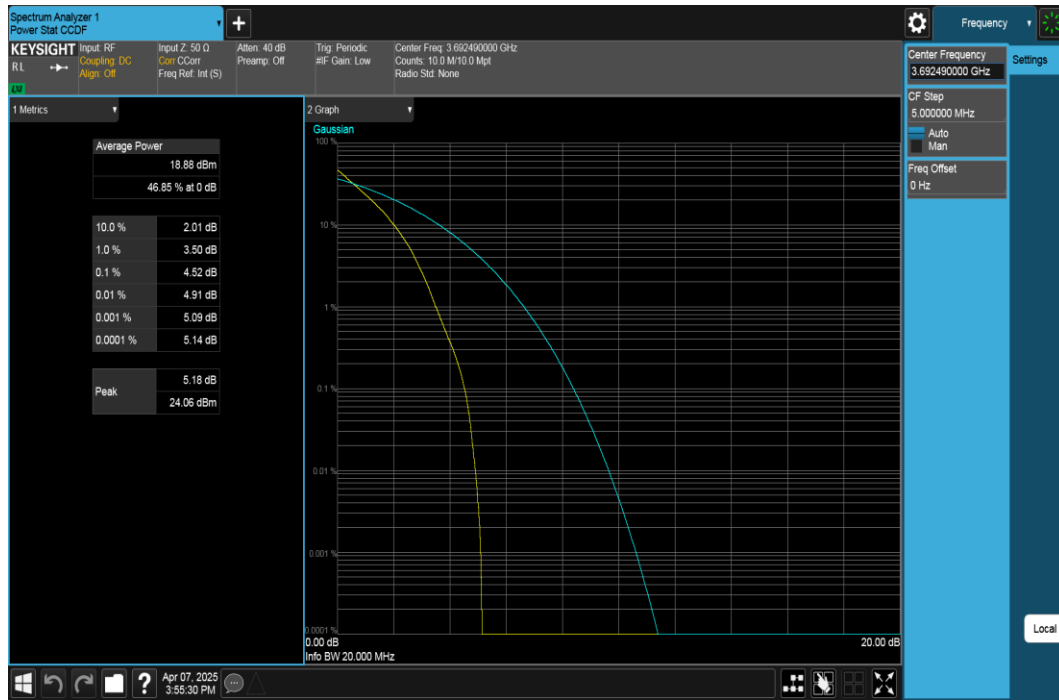
N48-15M-PAPR-MCH-DFT-s-OFDM-Pi2 BPSK-Outer_Full



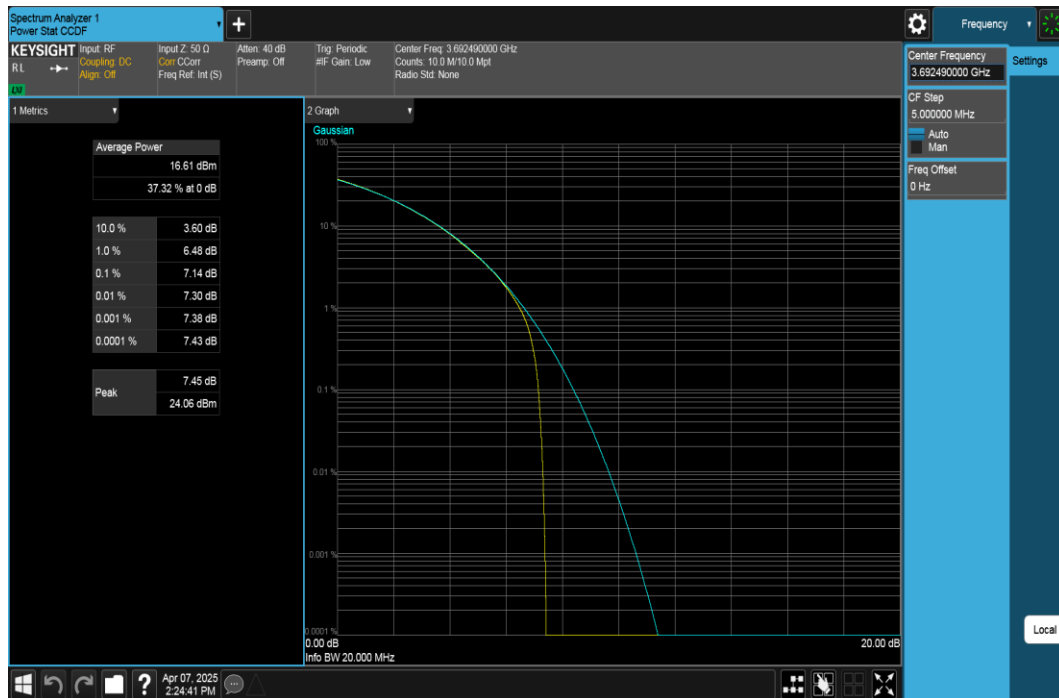
N48-15M-PAPR-MCH-CP-OFDM-QPSK-Outer_Full



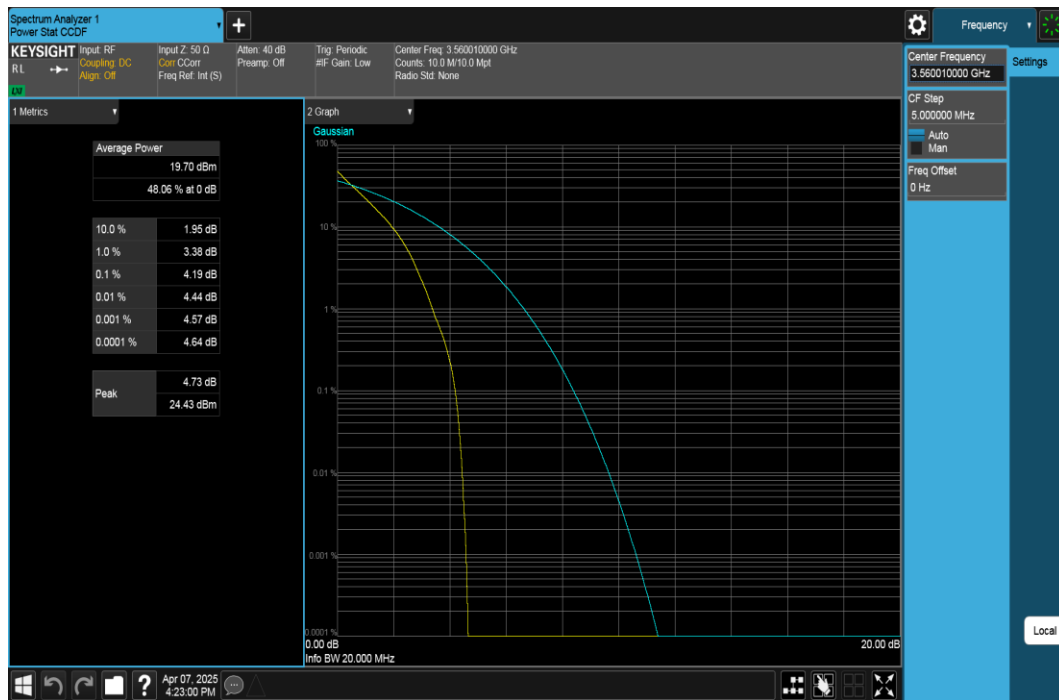
N48-15M-PAPR-HCH-DFT-s-OFDM-Pi2 BPSK-Outer_Full



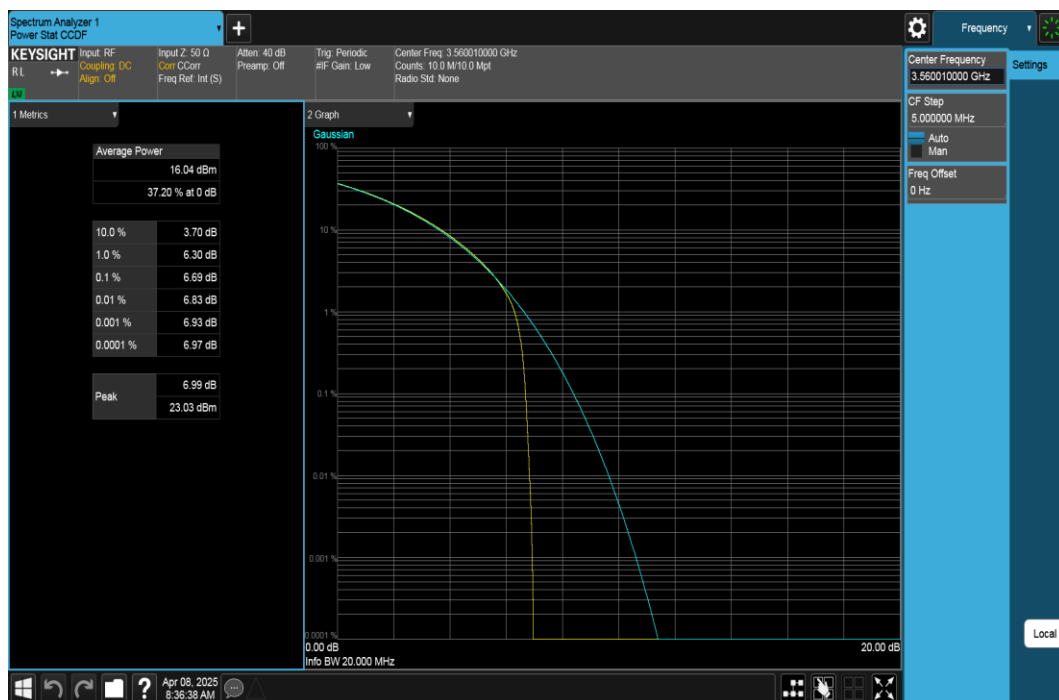
N48-15M-PAPR-HCH-CP-OFDM-QPSK-Outer_Full



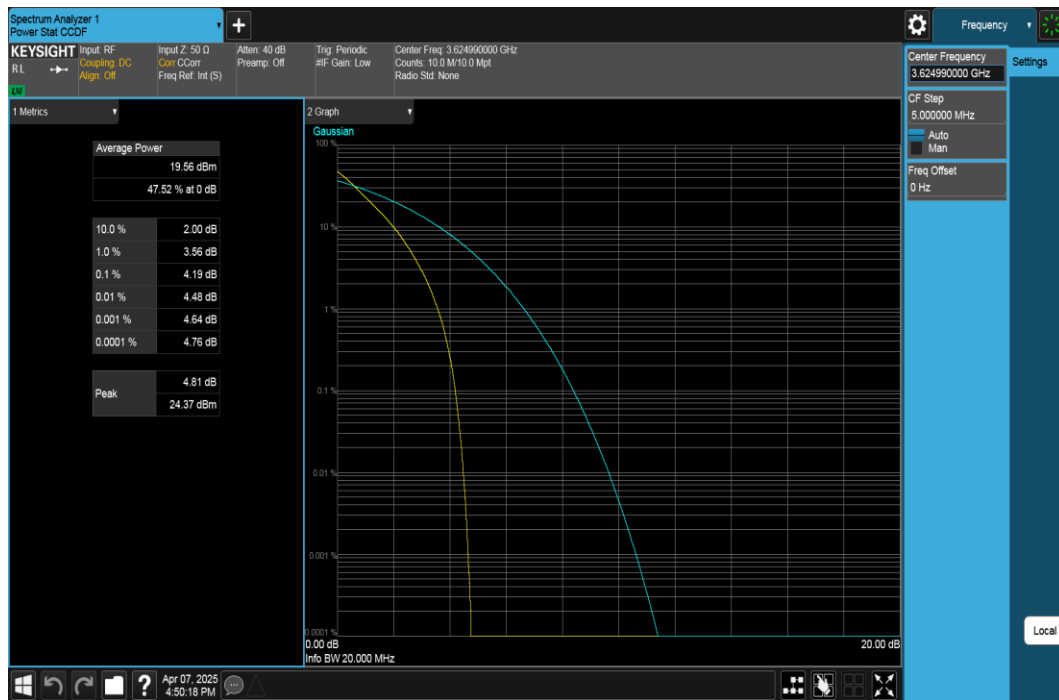
N48-20M-PAPR-LCH-DFT-s-OFDM-Pi2 BPSK-Outer_Full



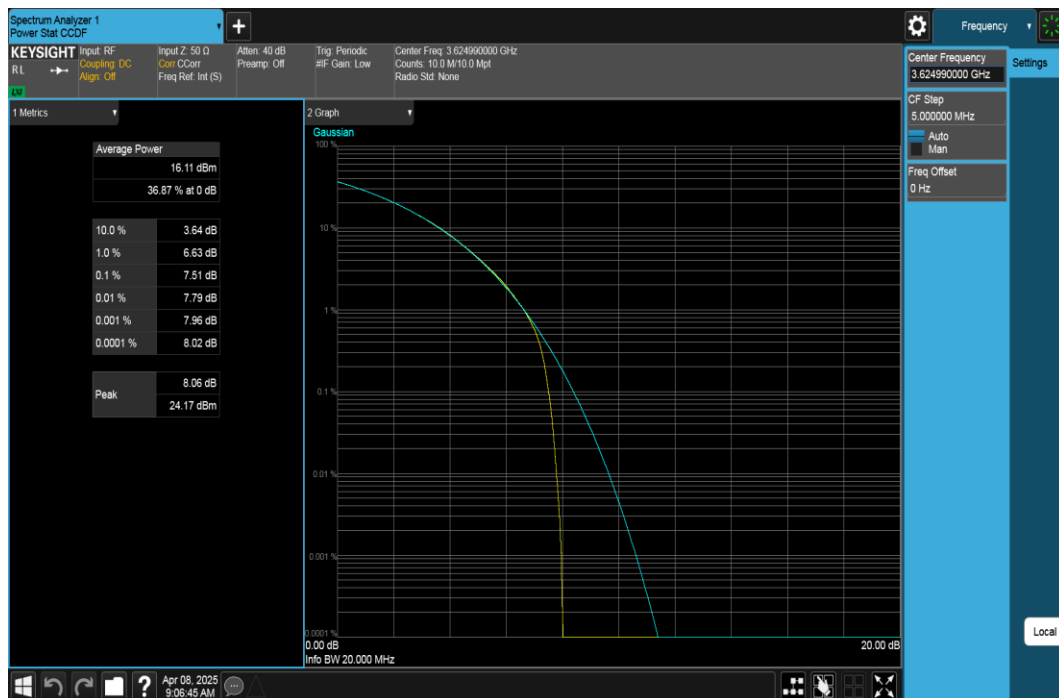
N48-20M-PAPR-LCH-CP-OFDM-QPSK-Outer_Full



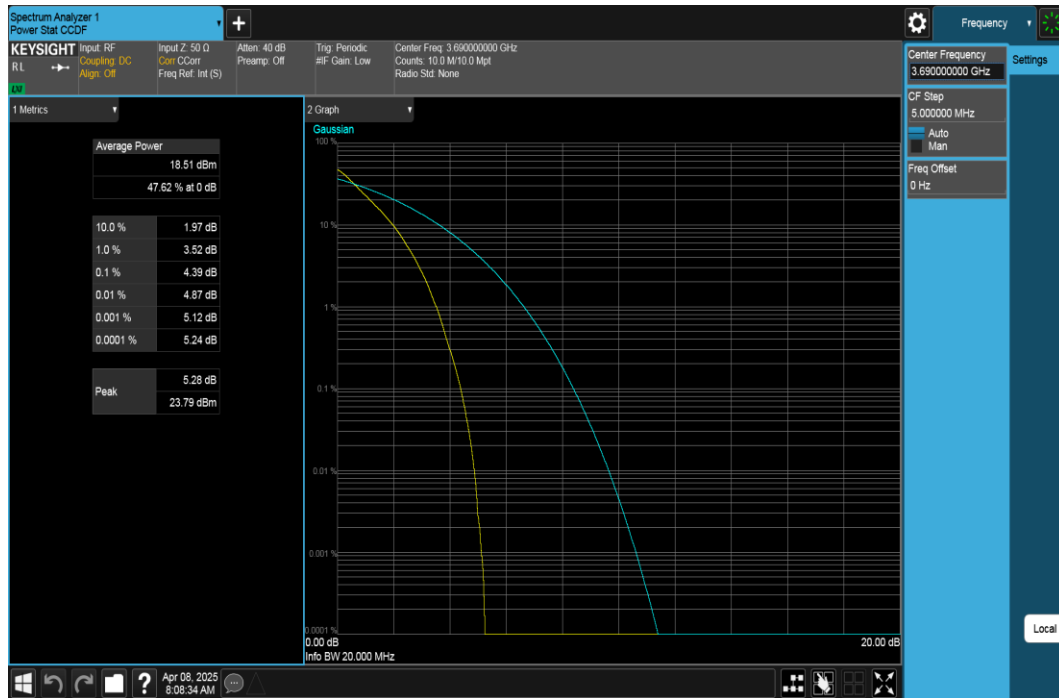
N48-20M-PAPR-MCH-DFT-s-OFDM-Pi2 BPSK-Outer_Full



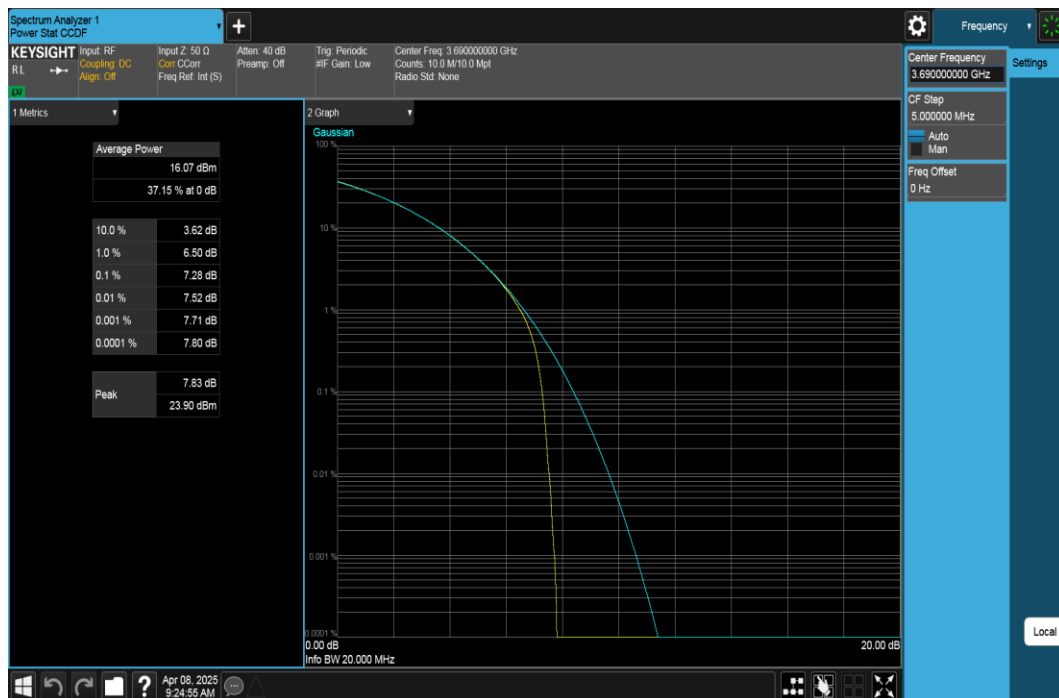
N48-20M-PAPR-MCH-CP-OFDM-QPSK-Outer_Full



N48-20M-PAPR-HCH-DFT-s-OFDM-Pi2 BPSK-Outer_Full



N48-20M-PAPR-HCH-CP-OFDM-QPSK-Outer_Full



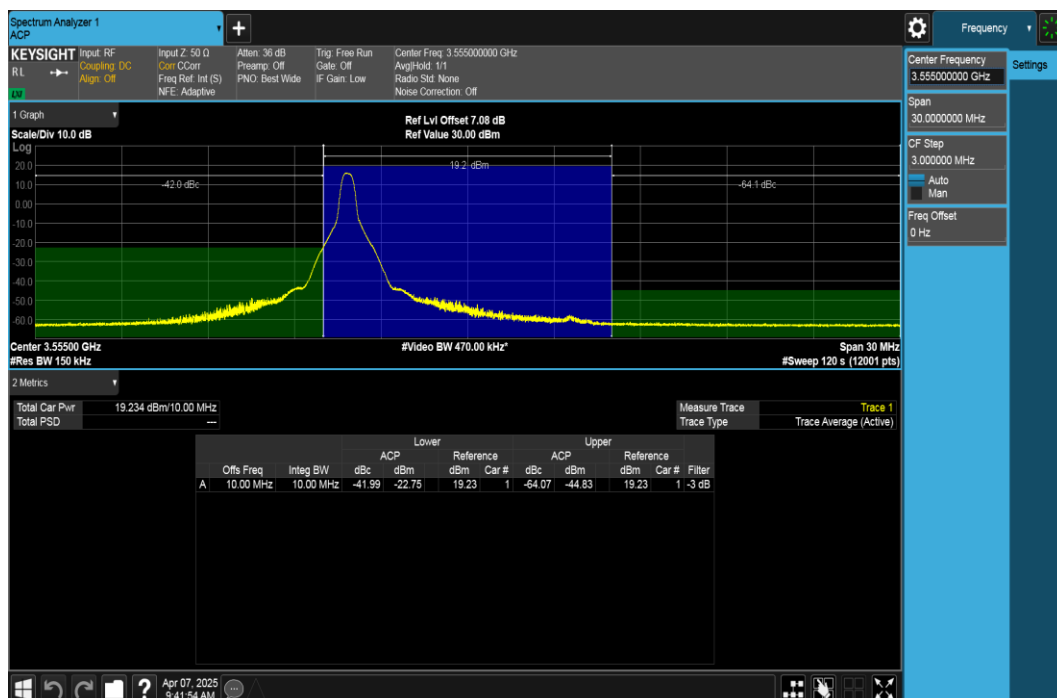
ACLR

Test graph

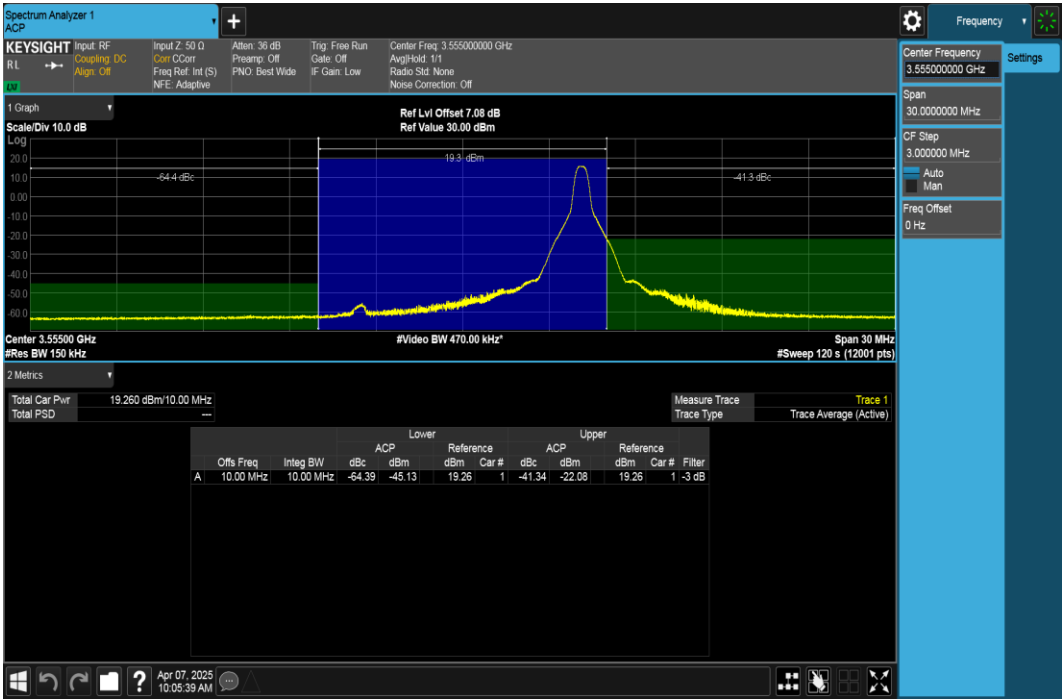
N48-10M-ACLR-LCH-DFT-s-OFDM-Pi2 BPSK-Outer_Full



N48-10M-ACLR-LCH-DFT-s-OFDM-Pi2 BPSK-1RB0



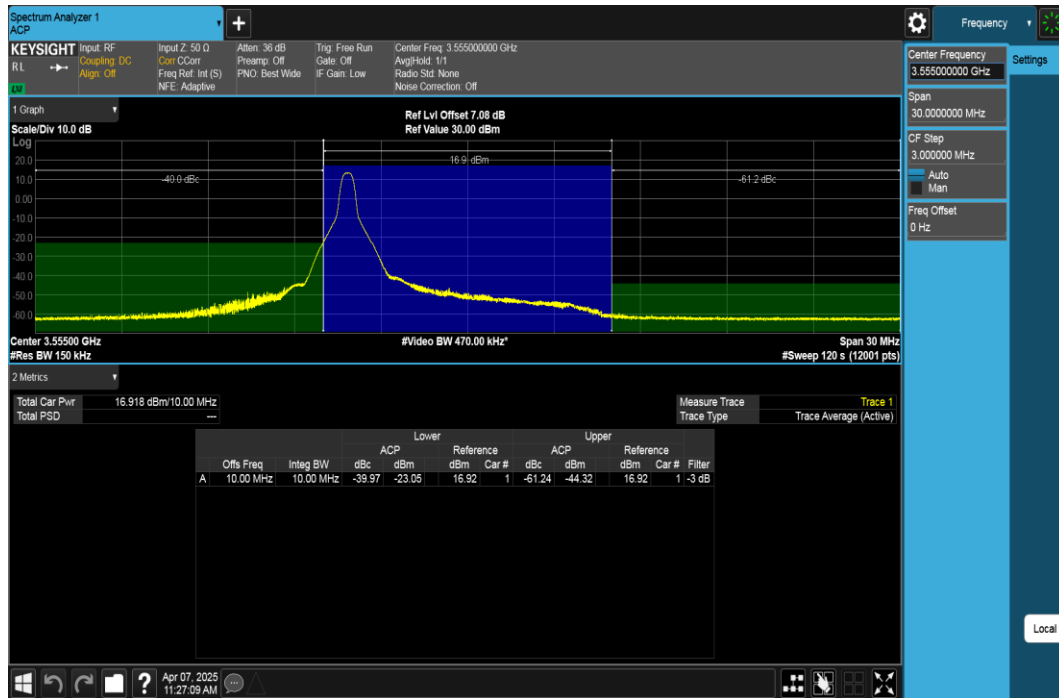
N48-10M-ACLR-LCH-DFT-s-OFDM-Pi2 BPSK-1RB_Max



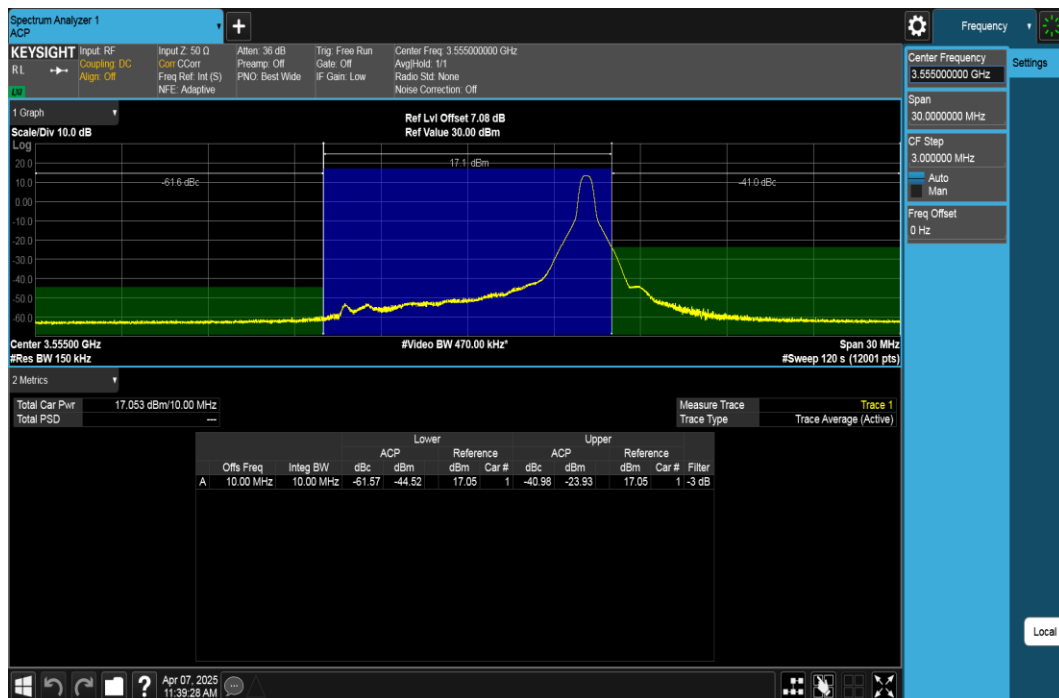
N48-10M-ACLR-LCH-CP-OFDM-QPSK-Outer_Full



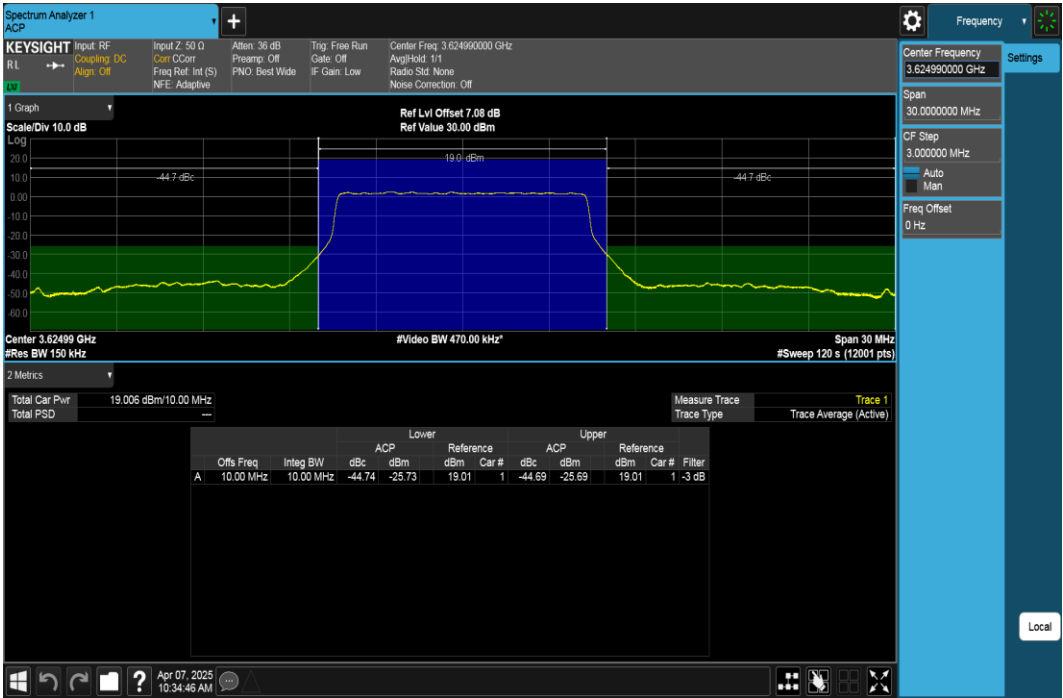
N48-10M-ACLR-LCH-CP-OFDM-QPSK-1RB0



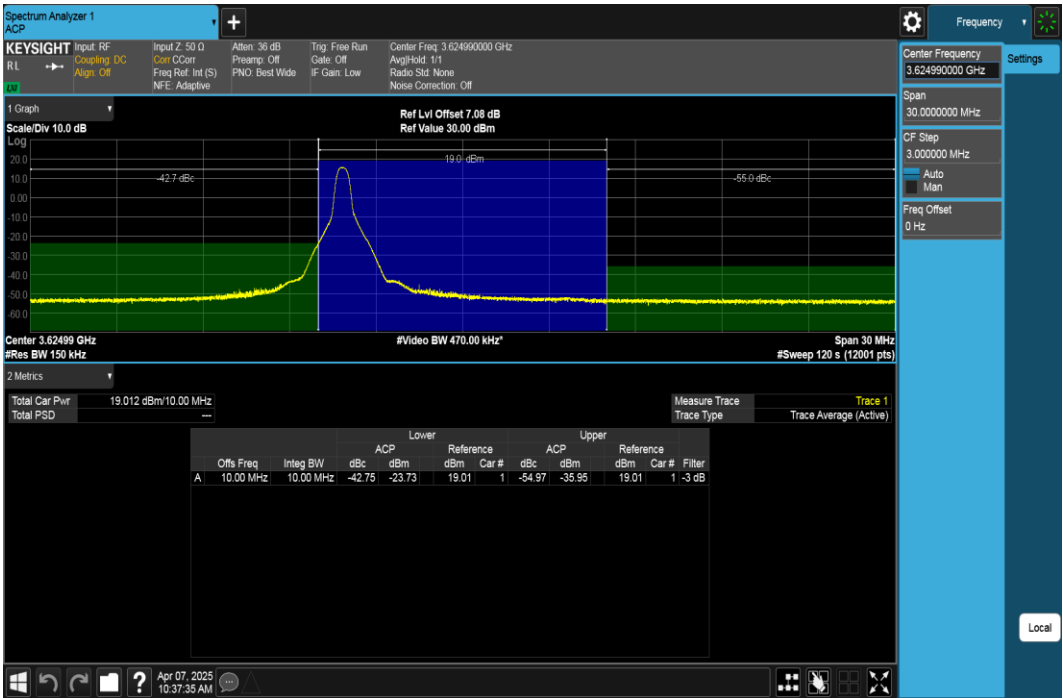
N48-10M-ACLR-LCH-CP-OFDM-QPSK-1RB_Max



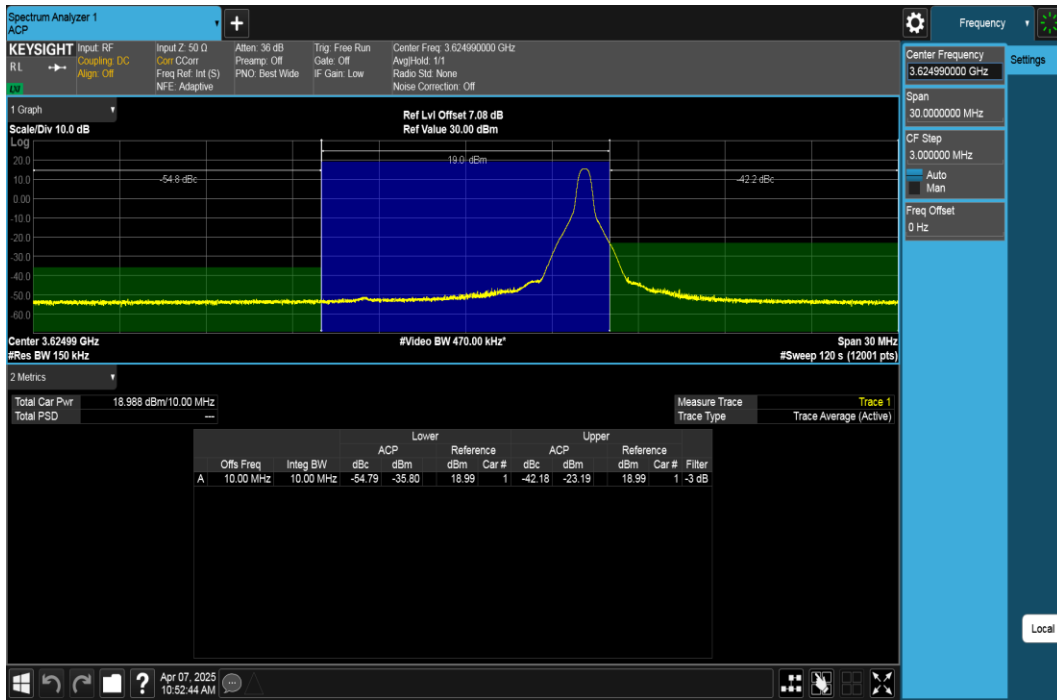
N48-10M-ACLR-MCH-DFT-s-OFDM-Pi2 BPSK-Outer_Full



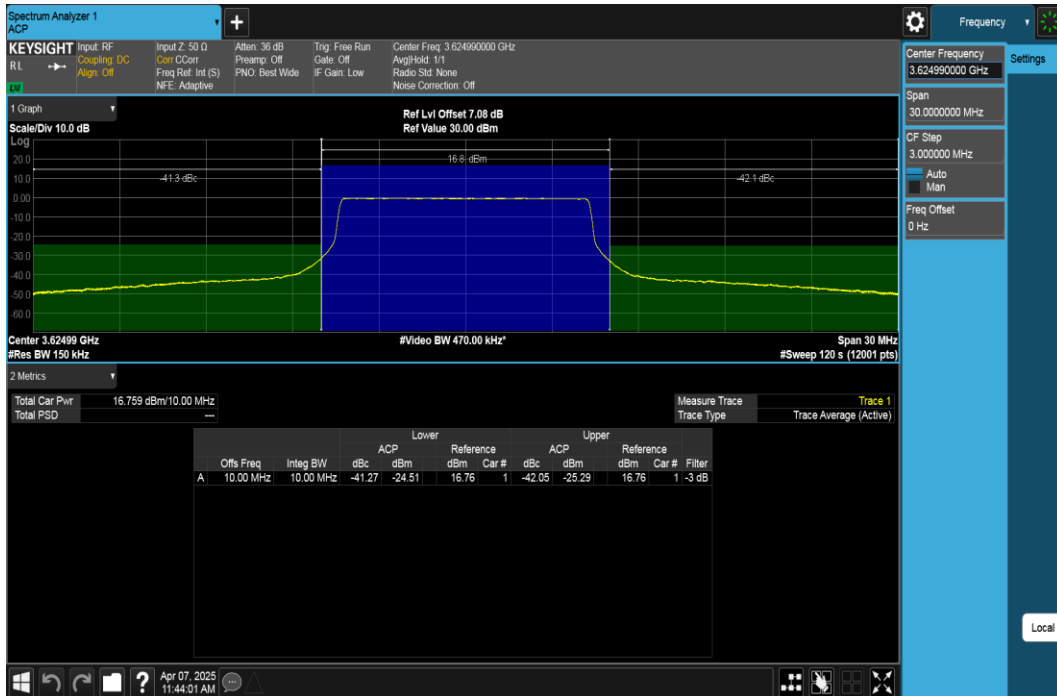
N48-10M-ACLR-MCH-DFT-s-OFDM-Pi2 BPSK-1RB0



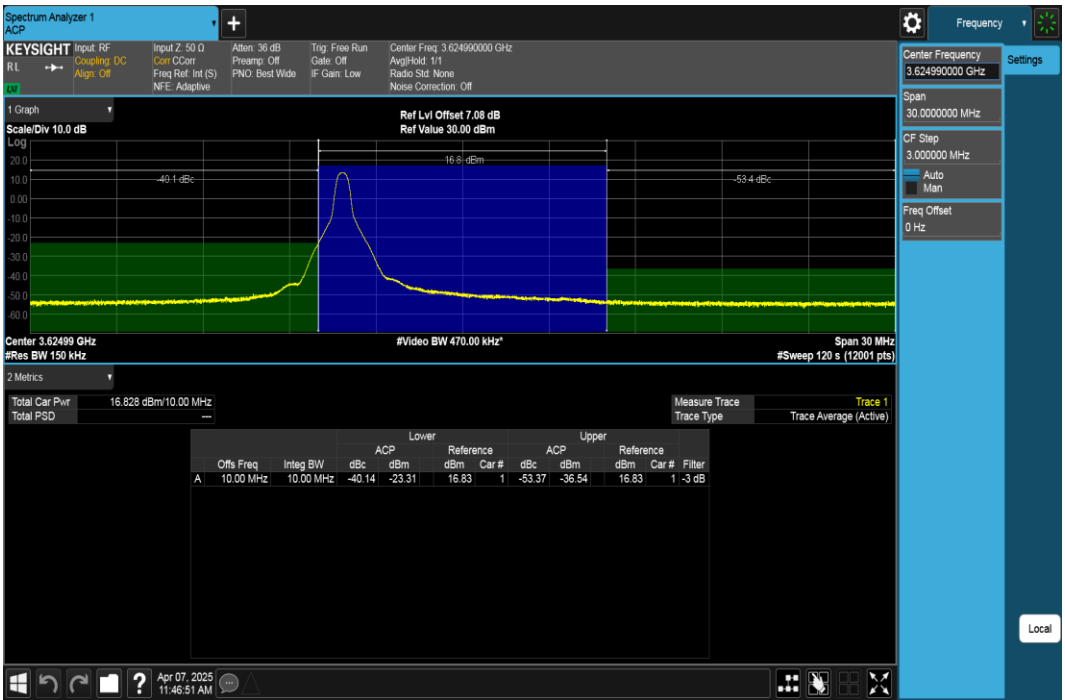
N48-10M-ACLR-MCH-DFT-s-OFDM-Pi2 BPSK-1RB_Max



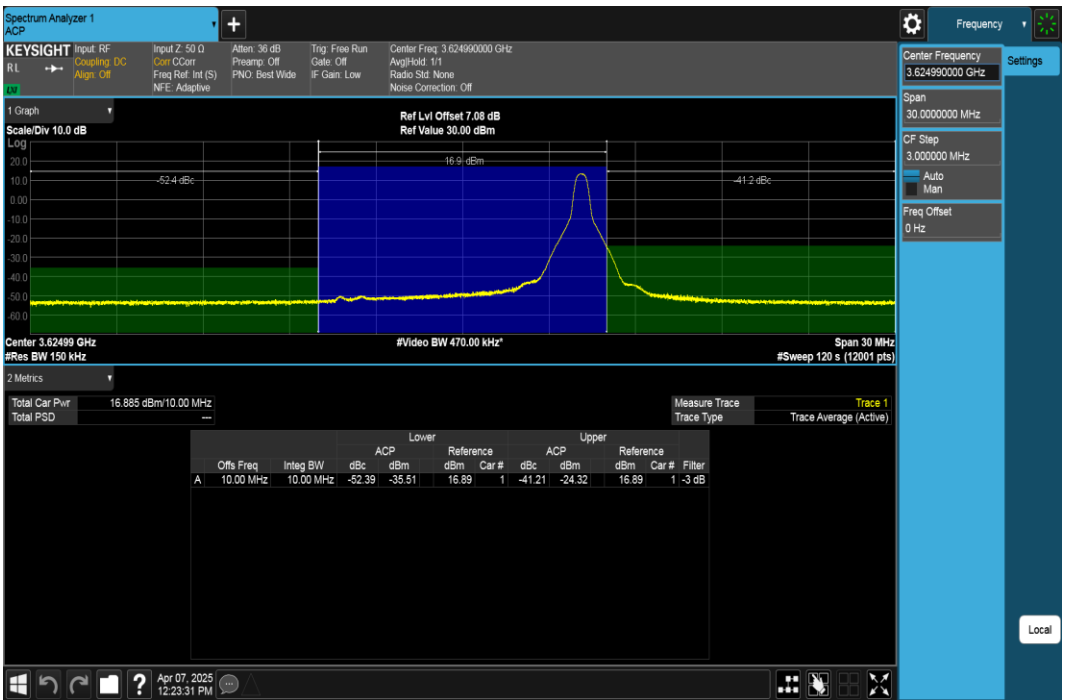
N48-10M-ACLR-MCH-CP-OFDM-QPSK-Outer_Full



N48-10M-ACLR-MCH-CP-OFDM-QPSK-1RB0



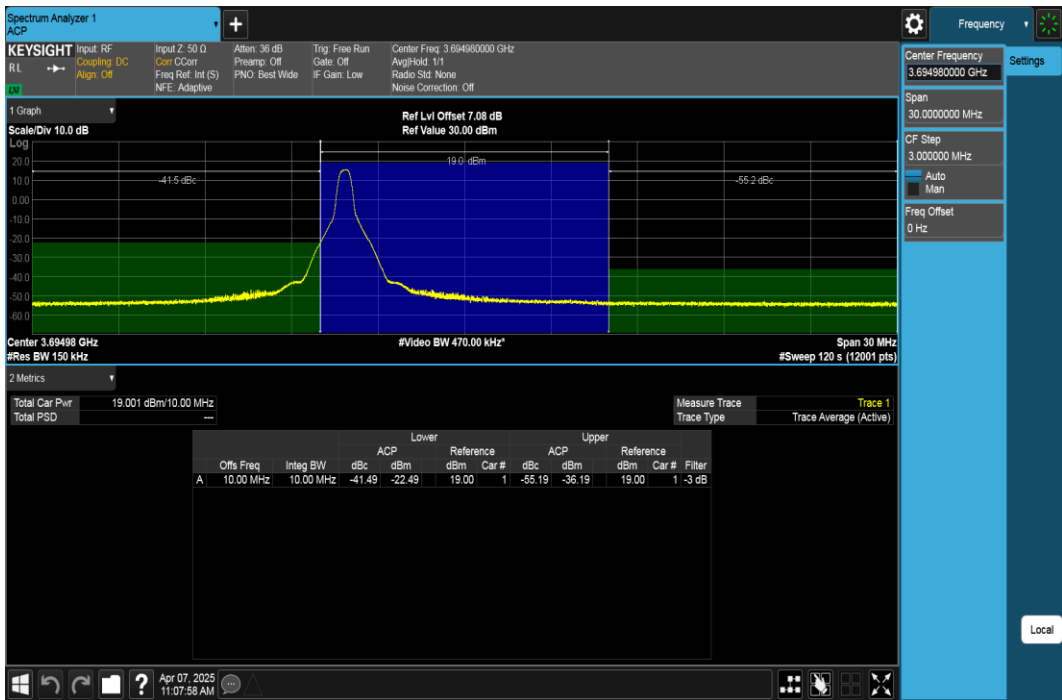
N48-10M-ACLR-MCH-CP-OFDM-QPSK-1RB_Max



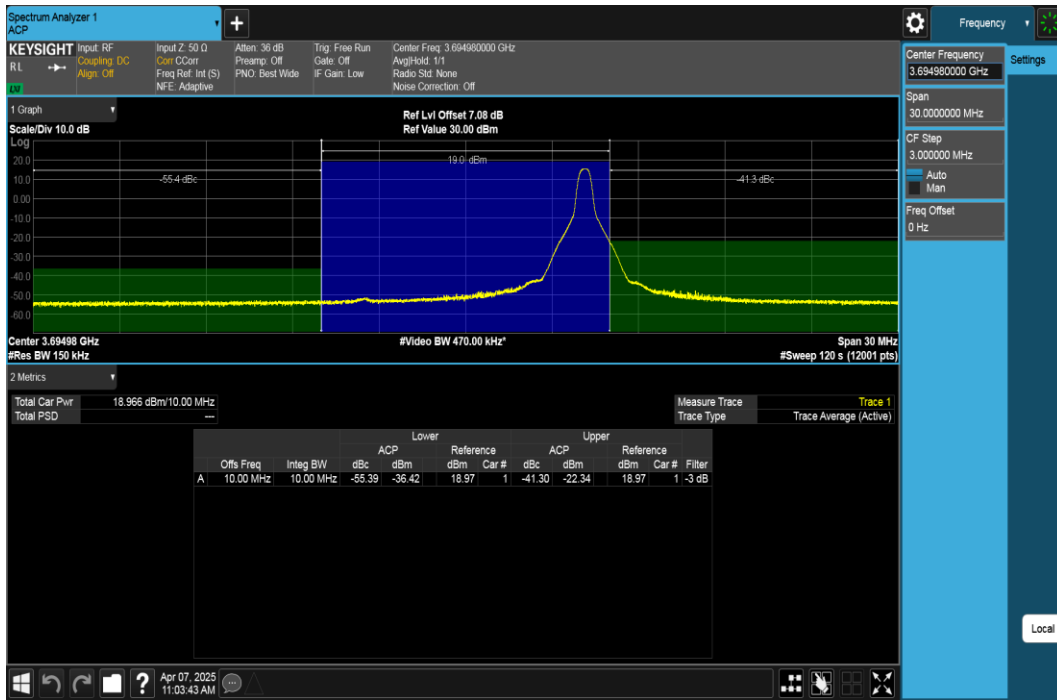
N48-10M-ACLR-HCH-DFT-s-OFDM-Pi2 BPSK-Outer_Full



N48-10M-ACLR-HCH-DFT-s-OFDM-Pi2 BPSK-1RB0



N48-10M-ACLR-HCH-DFT-s-OFDM-Pi2 BPSK-1RB_Max



N48-10M-ACLR-HCH-CP-OFDM-QPSK-Outer_Full

