Appendix for 5G NR N5

Product Name: Smartphone
Model No: KINGKONG X

WALTEK

Appendix A: Average Power Output Data for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	Power Class	Verdict
N5	15	5	DFT-QPSK	L	Outer_Full	22.65	PC3	PASS
N5	15	5	DFT-QPSK	L	Inner_Full	23.76	PC3	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Left	22.29	PC3	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Right	22.87	PC3	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	21.63	PC3	PASS
N5	15	5	DFT-16QAM	L	Inner_Full	22.58	PC3	PASS
N5	15	5	DFT-16QAM	L	Edge_1RB_Left	21.40	PC3	PASS
N5	15	5	DFT-16QAM	L	Edge_1RB_Right	21.46	PC3	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	22.90	PC3	PASS
N5	15	5	DFT-QPSK	M	Inner_Full	23.94	PC3	PASS
N5	15	5	DFT-QPSK	M	Edge_1RB_Left	22.85	PC3	PASS
N5	15	5	DFT-QPSK	M	Edge_1RB_Right	23.01	PC3	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	21.97	PC3	PASS
N5	15	5	DFT-16QAM	M	Inner_Full	23.01	PC3	PASS
N5	15	5	DFT-16QAM	M	Edge_1RB_Left	21.74	PC3	PASS
N5	15	5	DFT-16QAM	M	Edge_1RB_Right	21.91	PC3	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	22.89	PC3	PASS
N5	15	5	DFT-QPSK	H	Inner_Full	23.80	PC3	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Left	23.03	PC3	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Right	22.95	PC3	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	22.03	PC3	PASS
N5	15	5	DFT-16QAM	H	Inner_Full	22.87	PC3	PASS
N5	15	5	DFT-16QAM	H	Edge_1RB_Left	21.64	PC3	PASS
N5	15	5	DFT-16QAM	H	Edge_1RB_Right	21.45	PC3	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	22.61	PC3	PASS
N5	15	10	DFT-QPSK	L	Inner_Full	23.46	PC3	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Left	22.30	PC3	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Right	22.64	PC3	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	21.61	PC3	PASS
N5	15	10	DFT-16QAM	L	Inner_Full	22.48	PC3	PASS
N5	15	10	DFT-16QAM	L	Edge_1RB_Left	21.40	PC3	PASS
N5	15	10	DFT-16QAM	L	Edge_1RB_Right	21.73	PC3	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	22.73	PC3	PASS
N5	15	10	DFT-QPSK	M	Inner_Full	23.72	PC3	PASS
N5	15	10	DFT-QPSK	M	Edge_1RB_Left	22.57	PC3	PASS
N5	15	10	DFT-QPSK	M	Edge_1RB_Right	22.70	PC3	PASS

N5	15	10	DFT-16QAM	M	Outer_Full	21.59	PC3	PASS
N5	15	10	DFT-16QAM	M	Inner_Full	22.79	PC3	PASS
N5	15	10	DFT-16QAM	M	Edge_1RB_Left	21.35	PC3	PASS
N5	15	10	DFT-16QAM	M	Edge_1RB_Right	21.53	PC3	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	22.99	PC3	PASS
N5	15	10	DFT-QPSK	H	Inner_Full	23.90	PC3	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Left	22.47	PC3	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Right	22.26	PC3	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	21.86	PC3	PASS
N5	15	10	DFT-16QAM	H	Inner_Full	22.91	PC3	PASS
N5	15	10	DFT-16QAM	H	Edge_1RB_Left	21.86	PC3	PASS
N5	15	10	DFT-16QAM	H	Edge_1RB_Right	21.54	PC3	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	22.91	PC3	PASS
N5	15	15	DFT-QPSK	L	Inner_Full	23.81	PC3	PASS
N5	15	15	DFT-QPSK	L	Edge_1RB_Left	22.13	PC3	PASS
N5	15	15	DFT-QPSK	L	Edge_1RB_Right	22.76	PC3	PASS
N5	15	15	DFT-16QAM	L	Outer_Full	21.94	PC3	PASS
N5	15	15	DFT-16QAM	L	Inner_Full	22.78	PC3	PASS
N5	15	15	DFT-16QAM	L	Edge_1RB_Left	21.50	PC3	PASS
N5	15	15	DFT-16QAM	L	Edge_1RB_Right	21.48	PC3	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	22.87	PC3	PASS
N5	15	15	DFT-QPSK	M	Inner_Full	23.94	PC3	PASS
N5	15	15	DFT-QPSK	M	Edge_1RB_Left	21.92	PC3	PASS
N5	15	15	DFT-QPSK	M	Edge_1RB_Right	22.84	PC3	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	21.86	PC3	PASS
N5	15	15	DFT-16QAM	M	Inner_Full	22.97	PC3	PASS
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N5	15	15	DFT-16QAM	M	Edge_1RB_Right	21.42	PC3	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	22.99	PC3	PASS
N5	15	15	DFT-QPSK	H	Inner_Full	24.01	PC3	PASS
N5	15	15	DFT-QPSK	H	Edge_1RB_Left	22.62	PC3	PASS
N5	15	15	DFT-QPSK	H	Edge_1RB_Right	22.87	PC3	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	21.86	PC3	PASS
N5	15	15	DFT-16QAM	H	Inner_Full	23.11	PC3	PASS
N5	15	15	DFT-16QAM	H	Edge_1RB_Left	21.38	PC3	PASS
N5	15	15	DFT-16QAM	H	Edge_1RB_Right	21.16	PC3	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	22.82	PC3	PASS
N5	15	20	DFT-QPSK	L	Inner_Full	23.84	PC3	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Left	21.93	PC3	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Right	22.35	PC3	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	21.87	PC3	PASS
N5	15	20	DFT-16QAM	L	Inner_Full	22.80	PC3	PASS

N5	15	20	DFT-16QAM	L	Edge_1RB_Left	21.09	PC3	PASS
N5	15	20	DFT-16QAM	L	Edge_1RB_Right	21.53	PC3	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	22.75	PC3	PASS
N5	15	20	DFT-QPSK	M	Inner_Full	24.04	PC3	PASS
N5	15	20	DFT-QPSK	M	Edge_1RB_Left	22.07	PC3	PASS
N5	15	20	DFT-QPSK	M	Edge_1RB_Right	22.28	PC3	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	21.61	PC3	PASS
N5	15	20	DFT-16QAM	M	Inner_Full	23.00	PC3	PASS
N5	15	20	DFT-16QAM	M	Edge_1RB_Left	21.07	PC3	PASS
N5	15	20	DFT-16QAM	M	Edge_1RB_Right	21.27	PC3	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	22.69	PC3	PASS
N5	15	20	DFT-QPSK	H	Inner_Full	23.96	PC3	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Left	22.25	PC3	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Right	22.21	PC3	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	21.67	PC3	PASS
N5	15	20	DFT-16QAM	H	Inner_Full	23.03	PC3	PASS
N5	15	20	DFT-16QAM	H	Edge_1RB_Left	21.02	PC3	PASS
N5	15	20	DFT-16QAM	H	Edge_1RB_Right	21.04	PC3	PASS

Appendix B: Peak-to-Average Ratio for SA

Peak-to-Average Ratio(CCDF)

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N5	15	5	DFT-QPSK	L	Outer_Full	6.24	≤13	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	6.87	≤13	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	5.75	≤13	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	6.20	≤13	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	6.00	≤13	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	6.59	≤13	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	5.91	≤13	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	6.62	≤13	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	5.71	≤13	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	6.38	≤13	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	5.63	≤13	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	6.26	≤13	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	5.61	≤13	PASS
N5	15	15	DFT-16QAM	L	Outer_Full	6.49	≤13	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	5.84	≤13	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	6.45	≤13	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	5.79	≤13	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	6.50	≤13	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	6.05	≤13	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	6.64	≤13	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	5.85	≤13	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	6.64	≤13	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	5.71	≤13	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	6.52	≤13	PASS

Test Graphs

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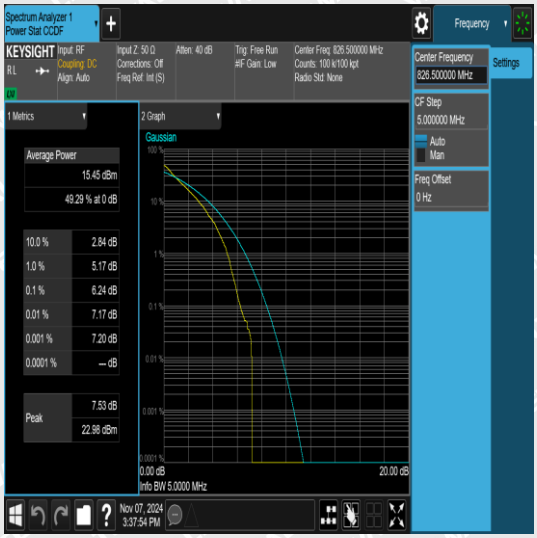	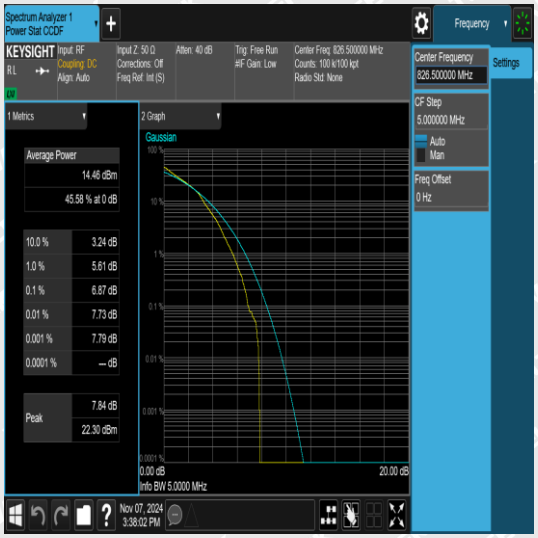
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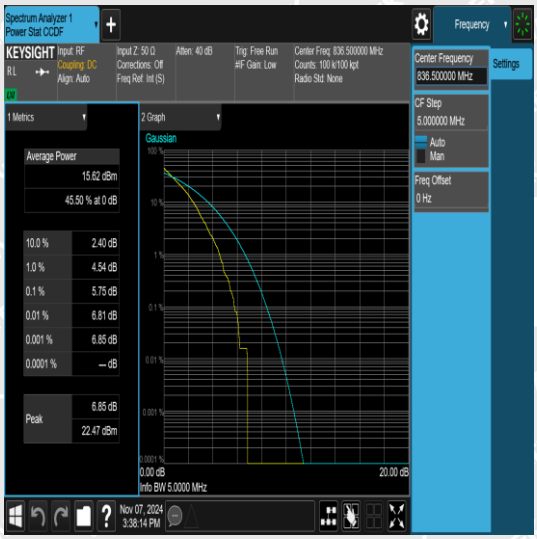	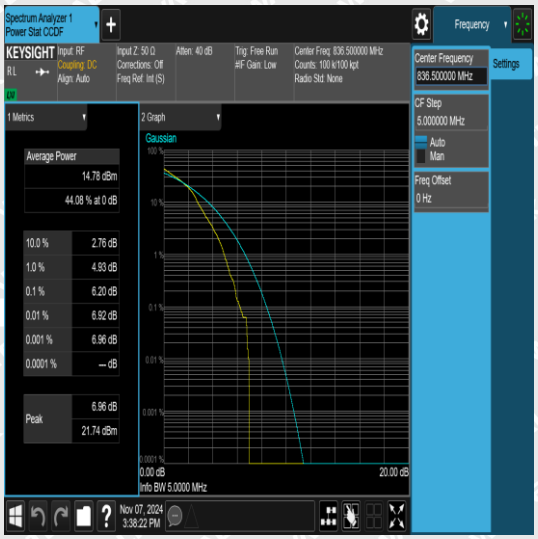
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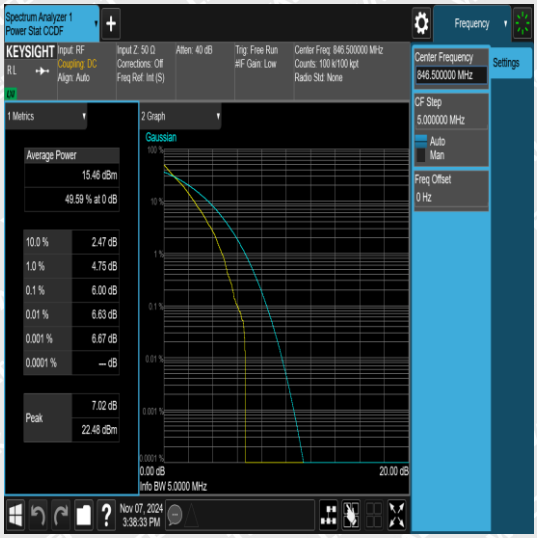	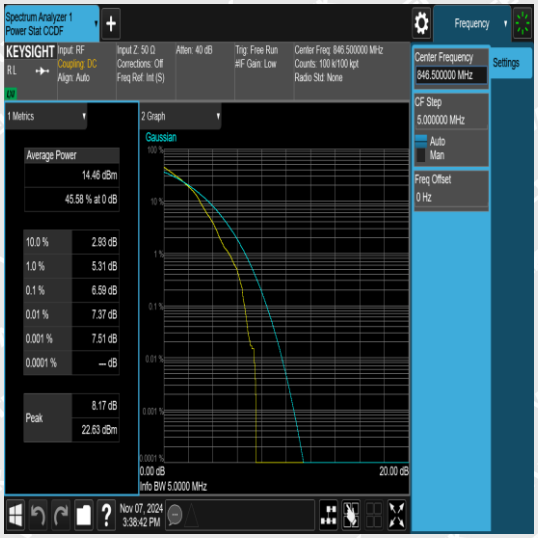

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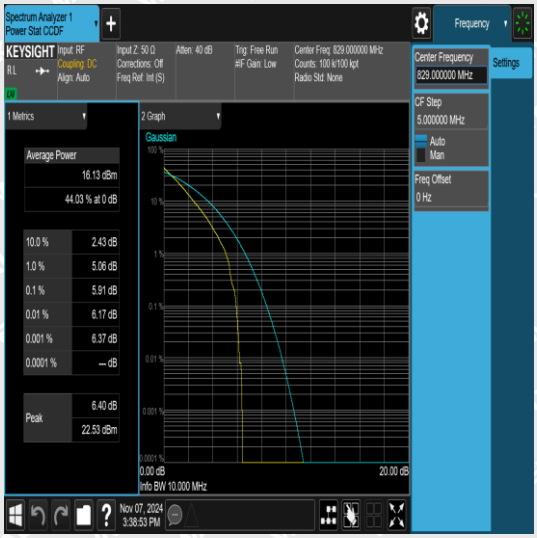	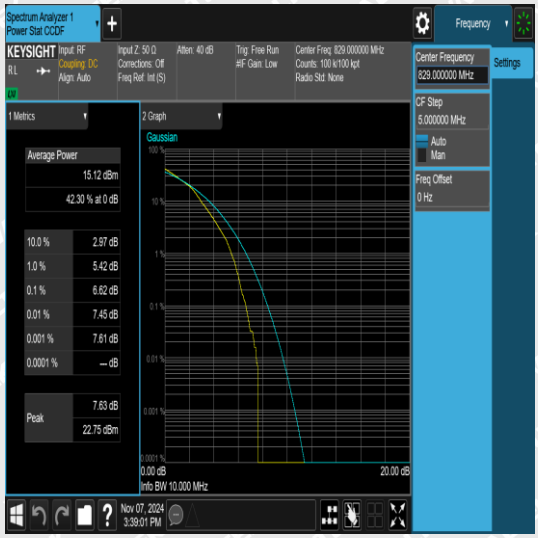
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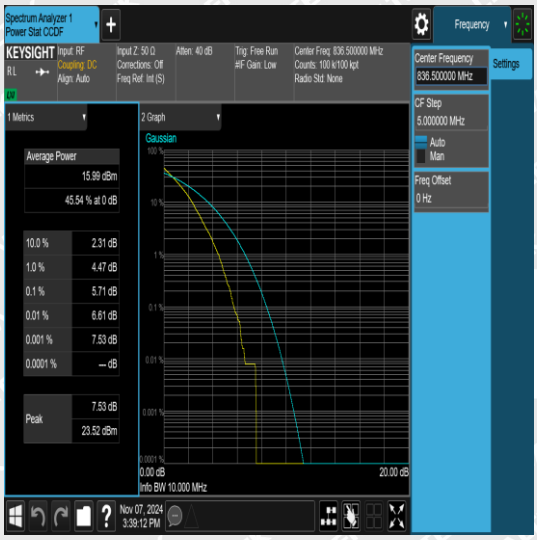	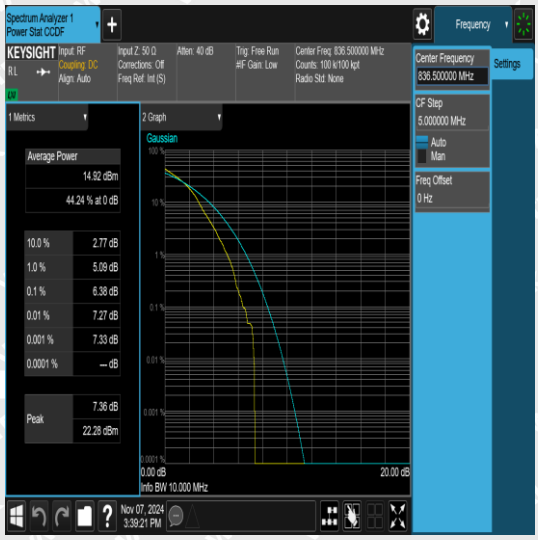
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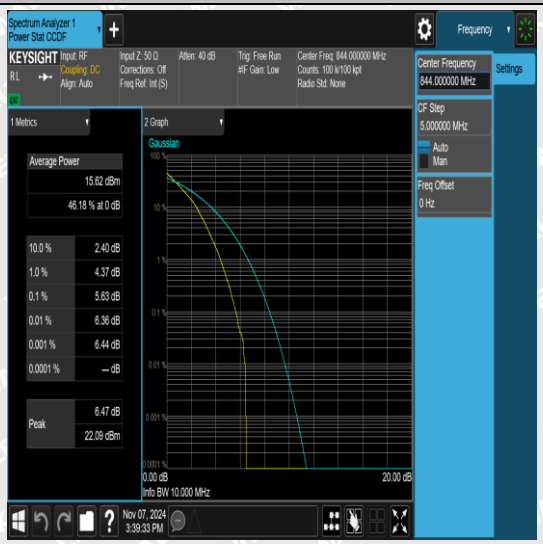	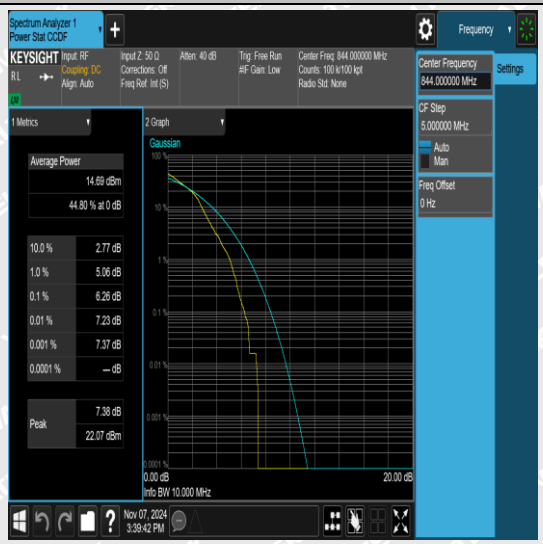
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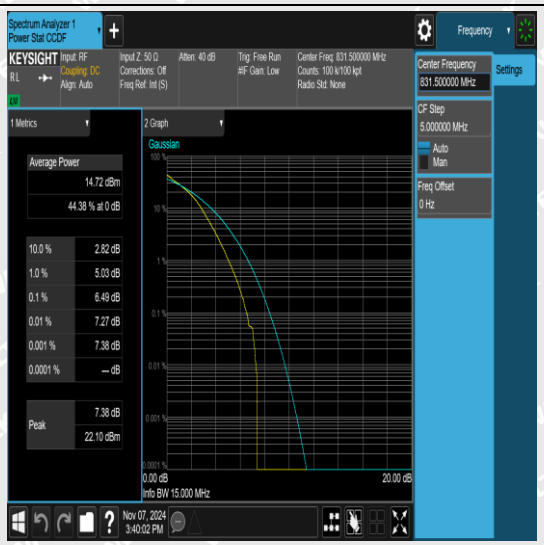

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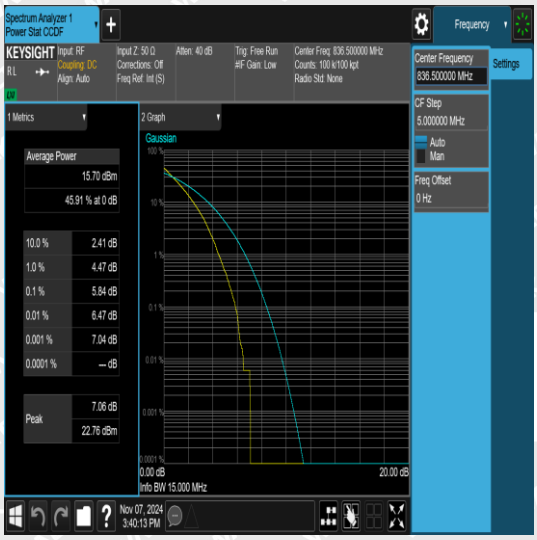

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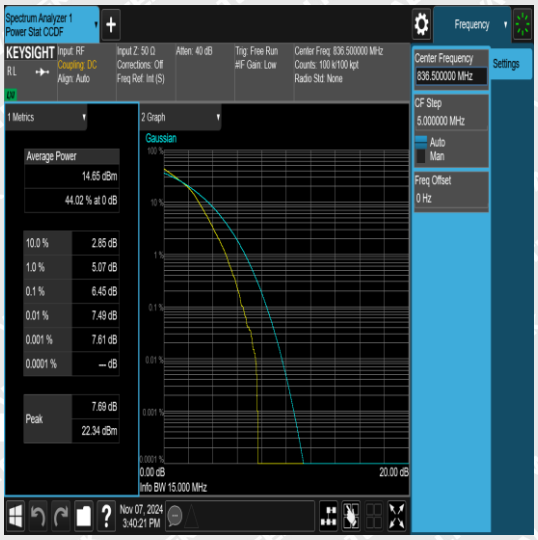

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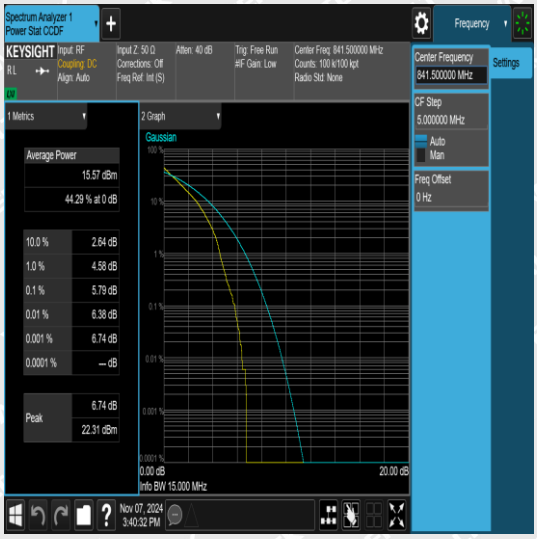

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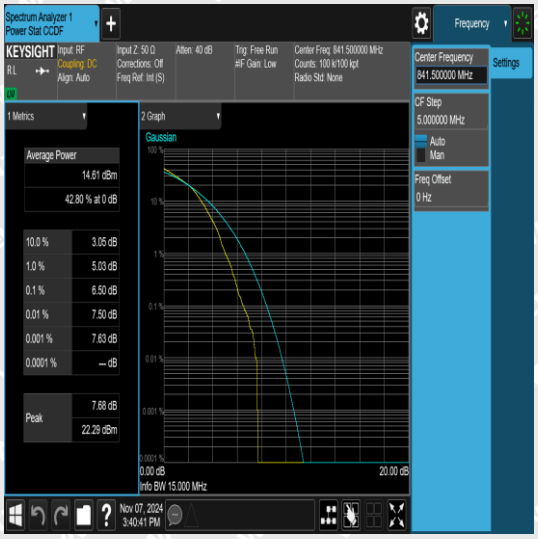

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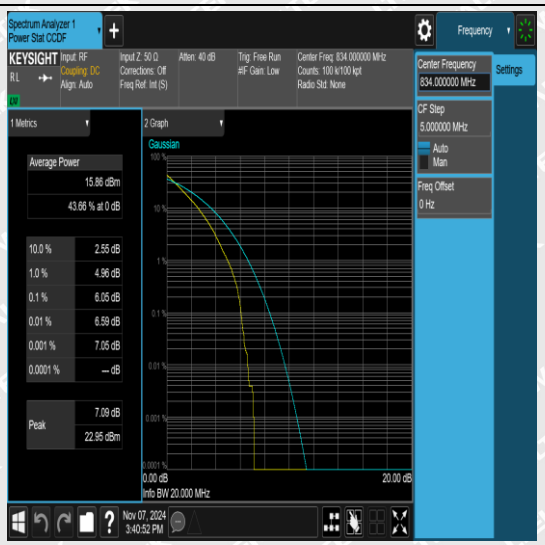

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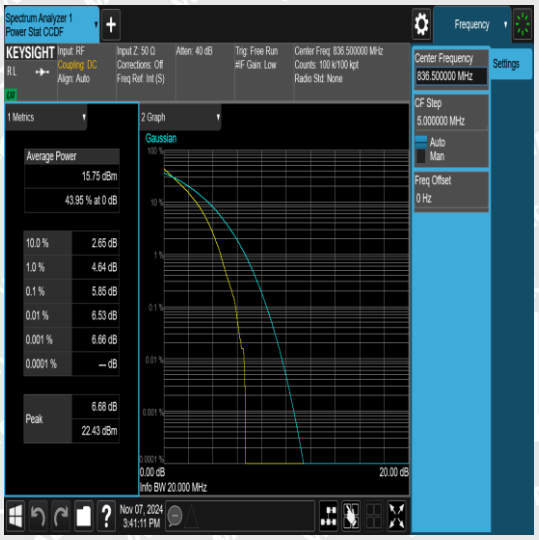

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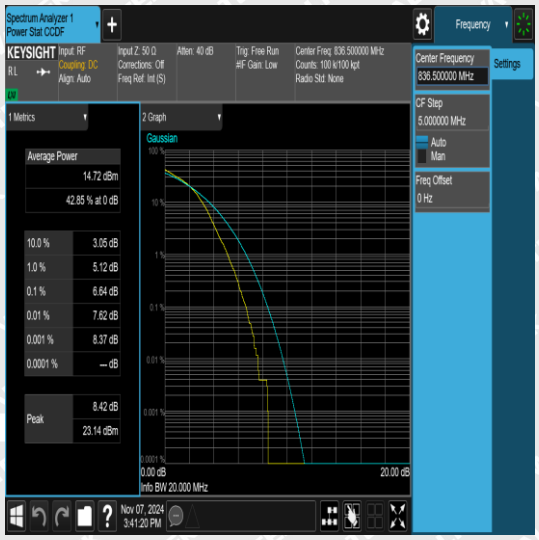

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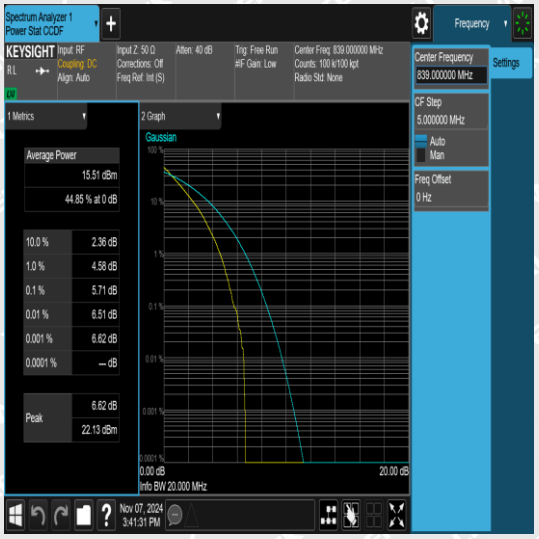

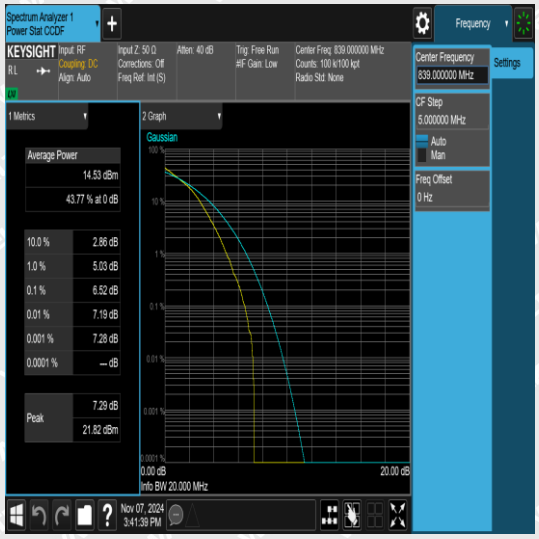

Appendix C: 26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N5	15	5	DFT-QPSK	L	Outer_Full	4.4573	4.822	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	4.4710	4.834	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	4.4577	4.803	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	4.4663	4.843	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	4.4753	4.914	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	4.4789	4.815	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	8.9292	9.548	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	8.9411	9.556	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	8.9149	9.485	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	8.9088	9.619	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	8.9577	9.541	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	8.9353	9.571	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	13.417	14.21	PASS
N5	15	15	DFT-16QAM	L	Outer_Full	13.413	14.10	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	13.333	14.13	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	13.409	14.14	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	13.379	14.13	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	13.383	14.13	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	17.916	18.94	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	17.889	18.96	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	17.809	19.10	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	17.765	18.93	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	17.848	18.91	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	17.841	18.81	PASS

Test Graphs

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	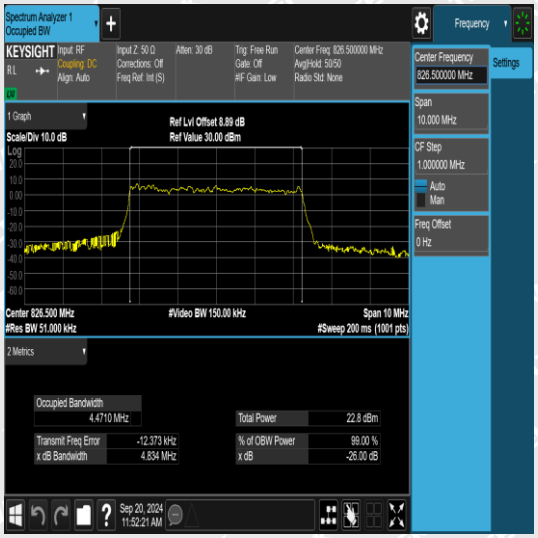
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NTNV_N5_PC3_15_5_H_TID5_Ant1#1	NTNV_N5_PC3_15_5_H_TID6_Ant1#1
	

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	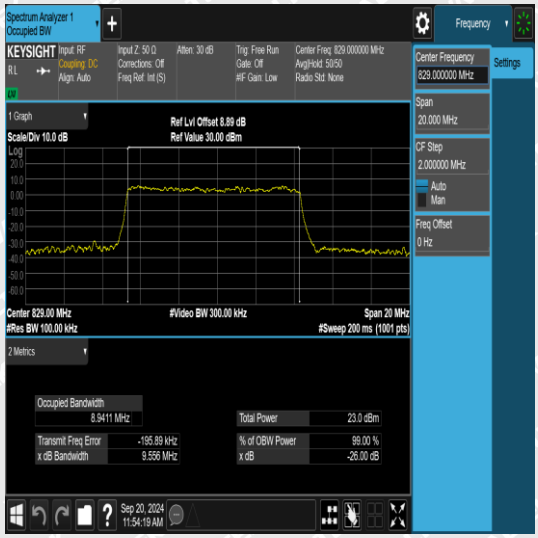
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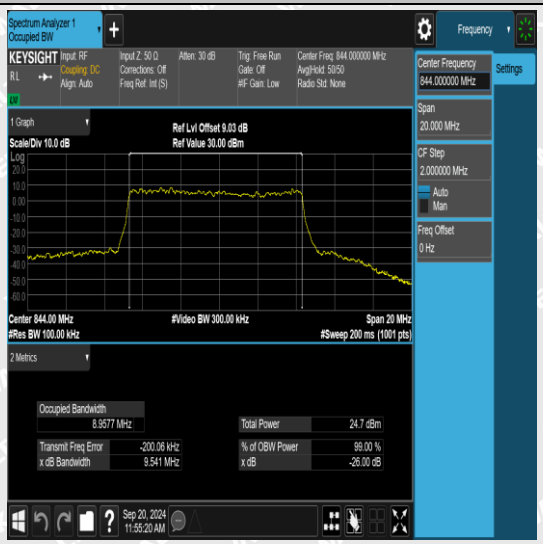
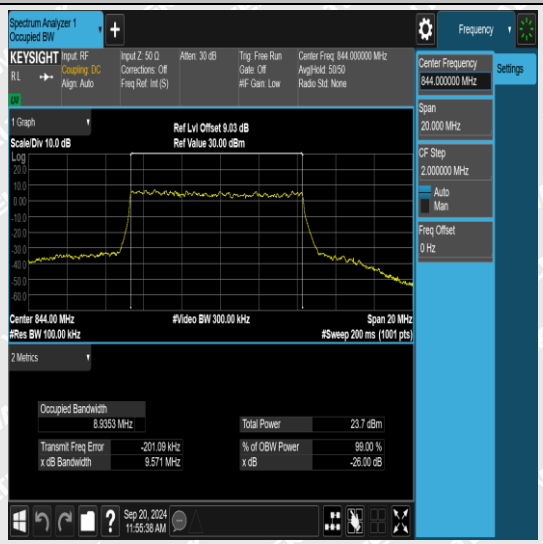
NTNV_N5_PC3_15_10_H_TID5_Ant1#1	NTNV_N5_PC3_15_10_H_TID6_Ant1#1
	
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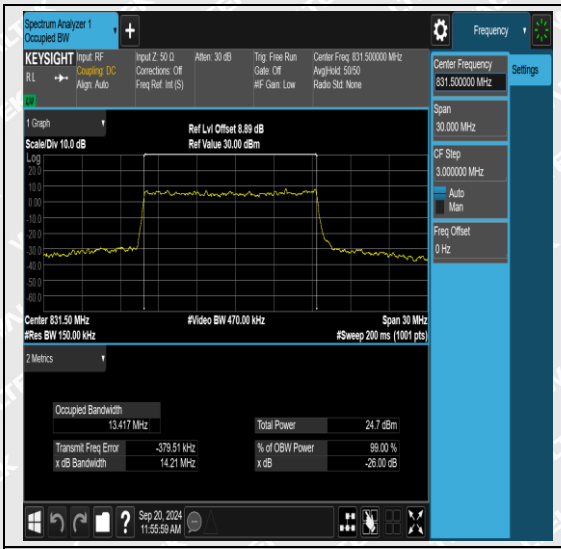

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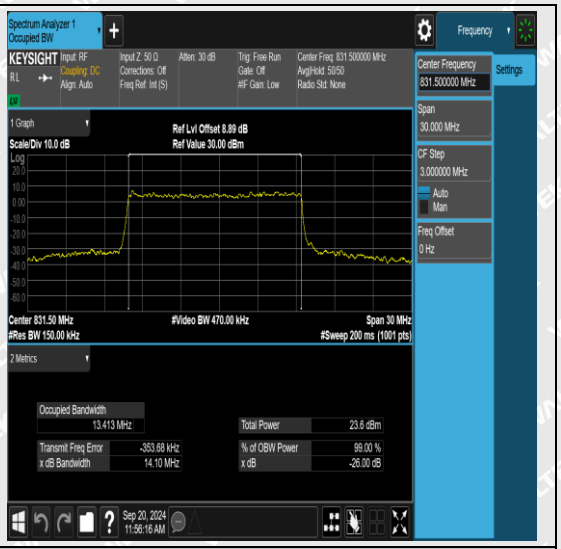

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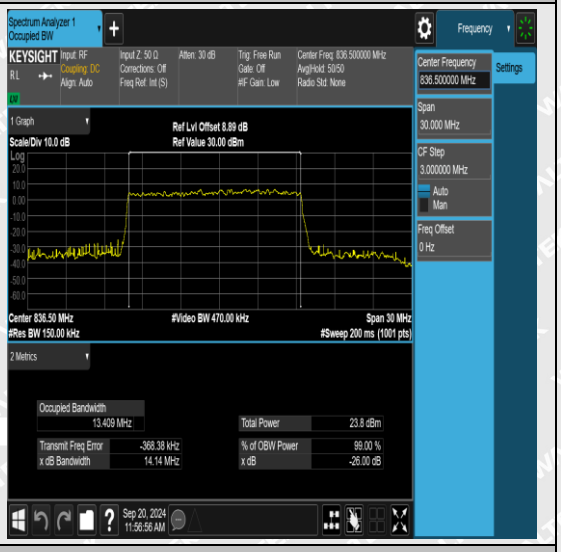

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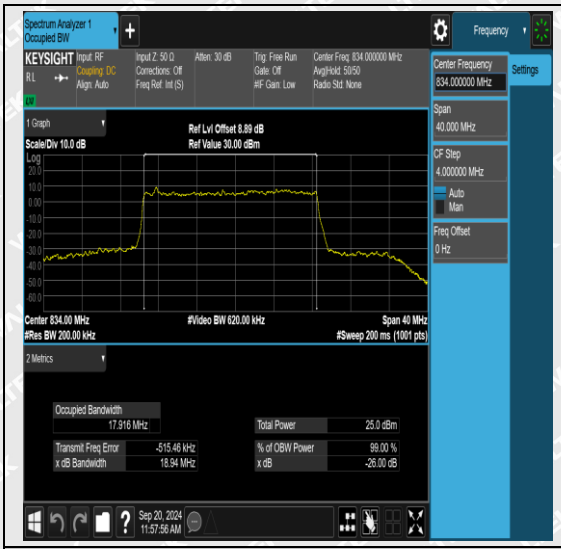

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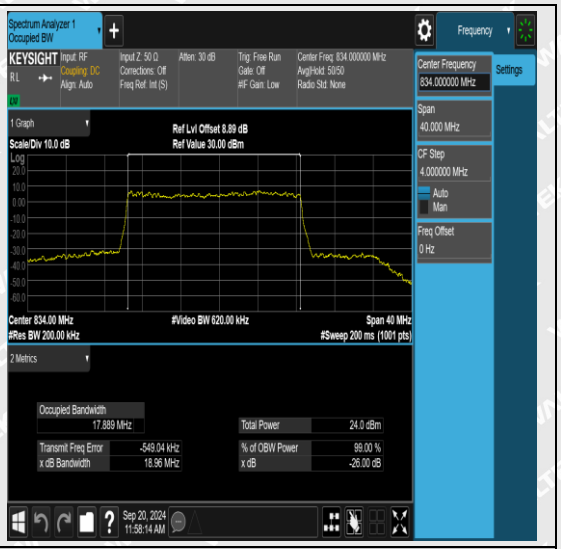

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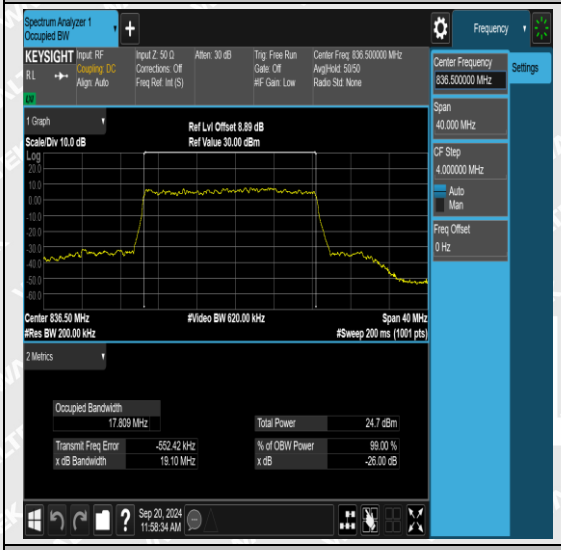

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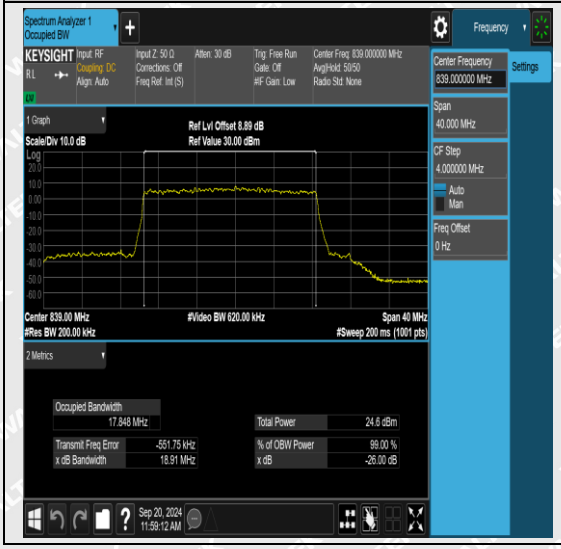

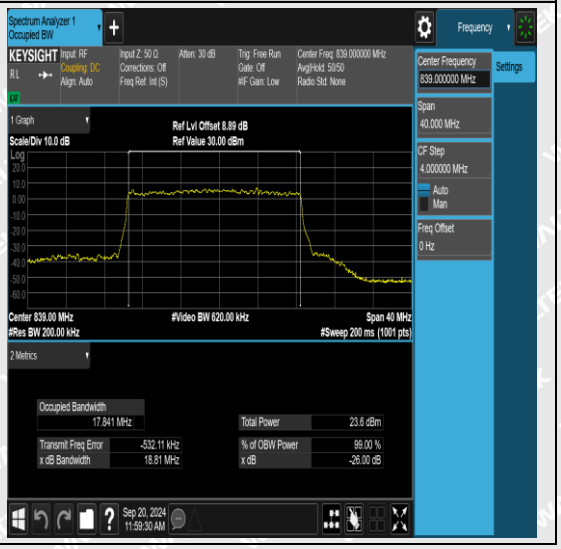

Appendix D: Band Edge for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Margin	Verdict
N5	15	5	DFT-QPSK	L	Outer_Full	-40.73	27.73	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Left	-37.28	24.28	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	-40.93	27.93	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Right	-40.30	27.30	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	-43.14	30.14	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Left	-41.35	28.35	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	-44.13	31.13	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Right	-42.57	29.57	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	-42.48	29.48	PASS
N5	15	15	DFT-QPSK	L	Edge_1RB_Left	-44.12	31.12	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	-45.90	32.90	PASS
N5	15	15	DFT-QPSK	H	Edge_1RB_Right	-43.51	30.51	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	-42.52	29.52	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Left	-43.82	30.82	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	-44.88	31.88	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Right	-44.28	31.28	PASS

Test Graphs

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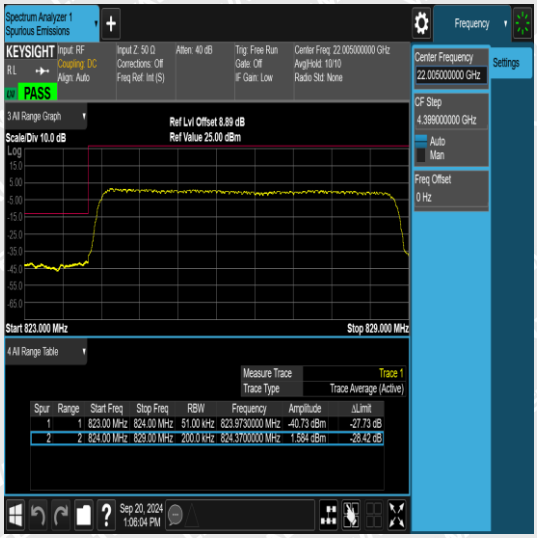	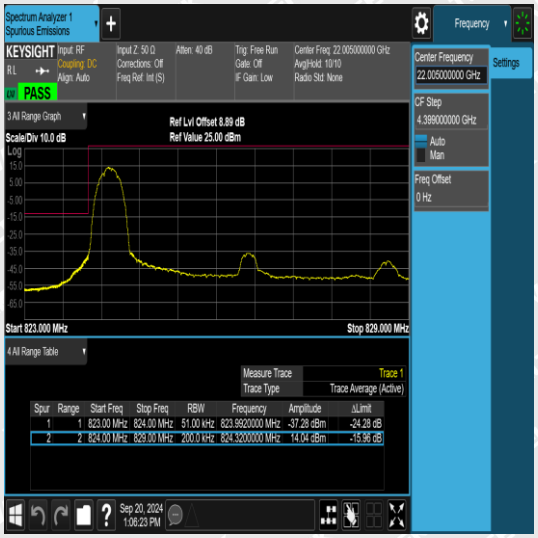
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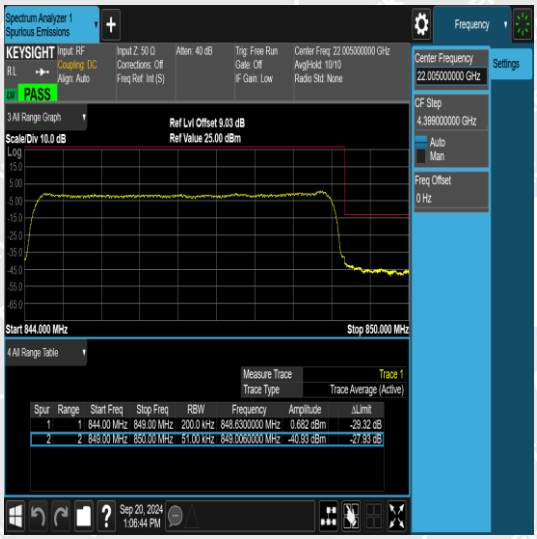	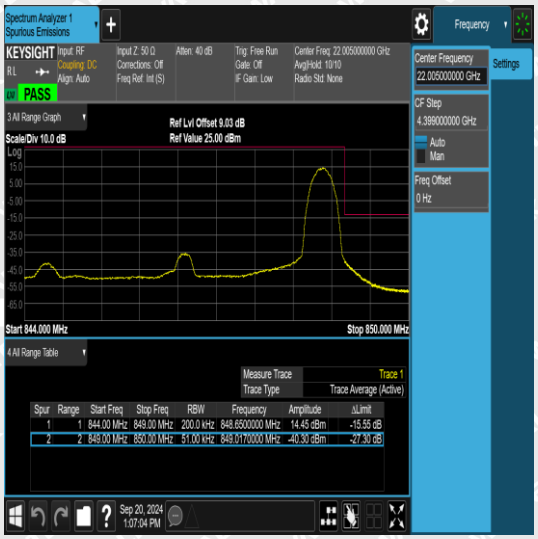
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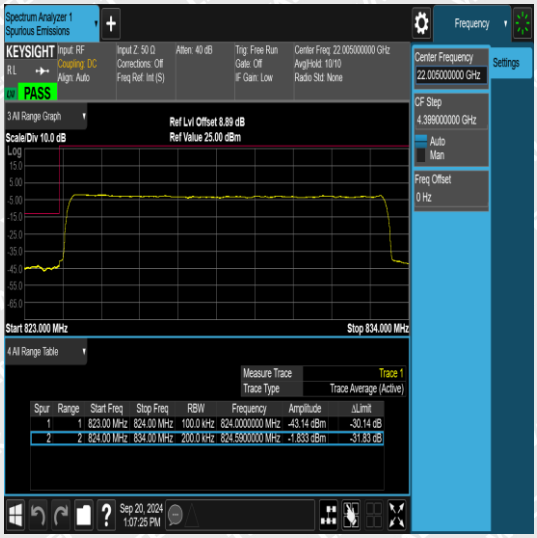	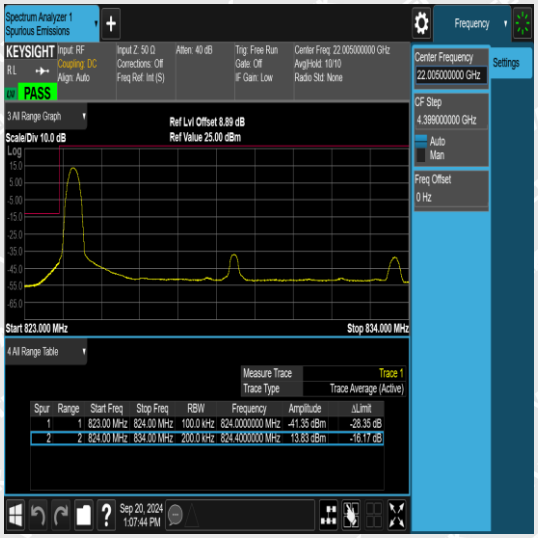

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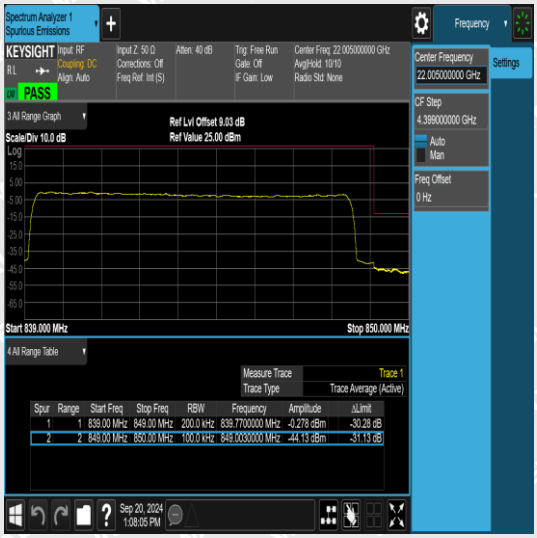	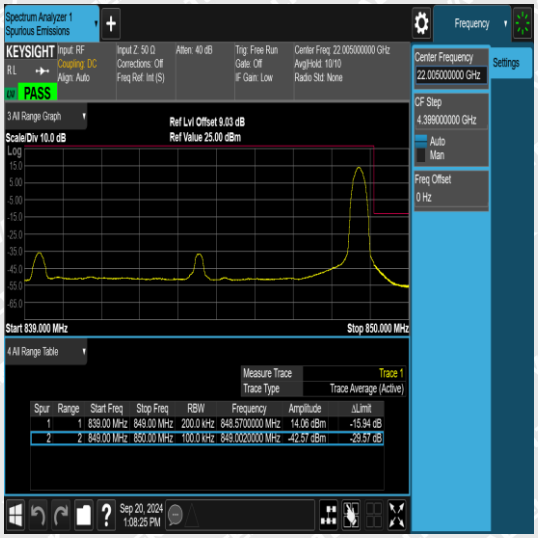
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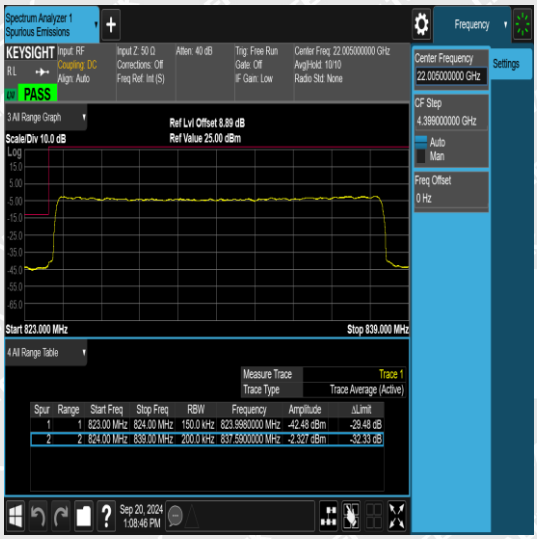	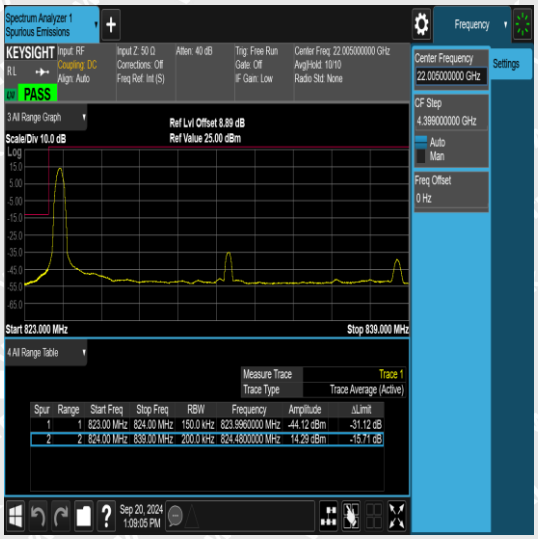
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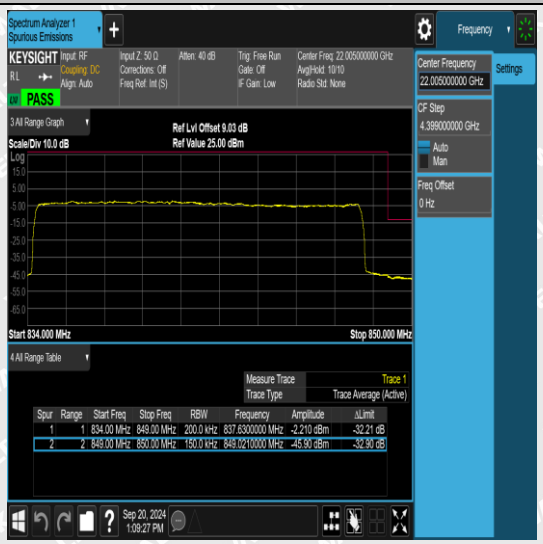	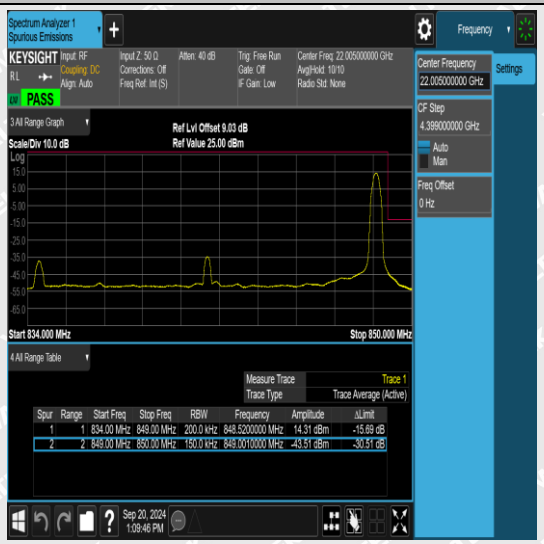
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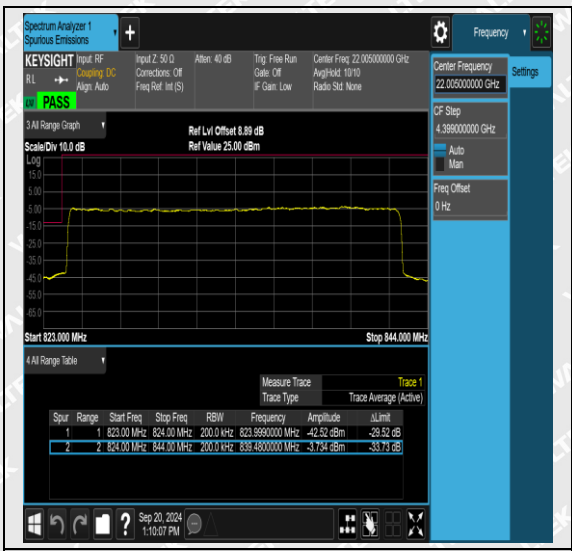

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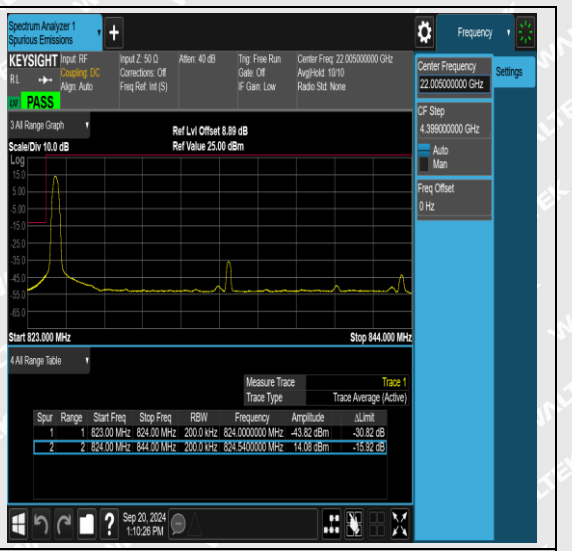

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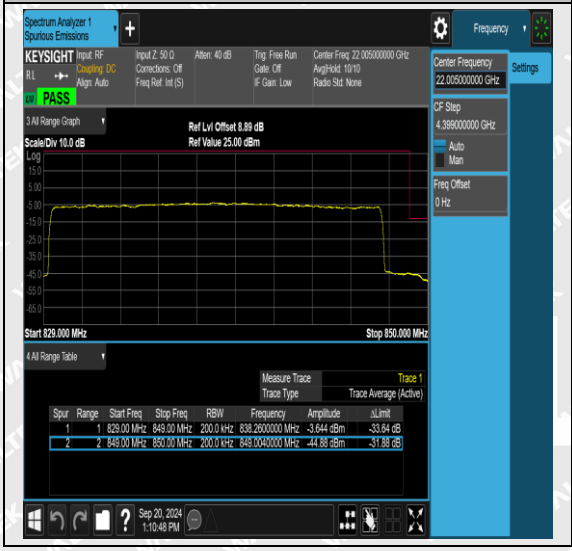
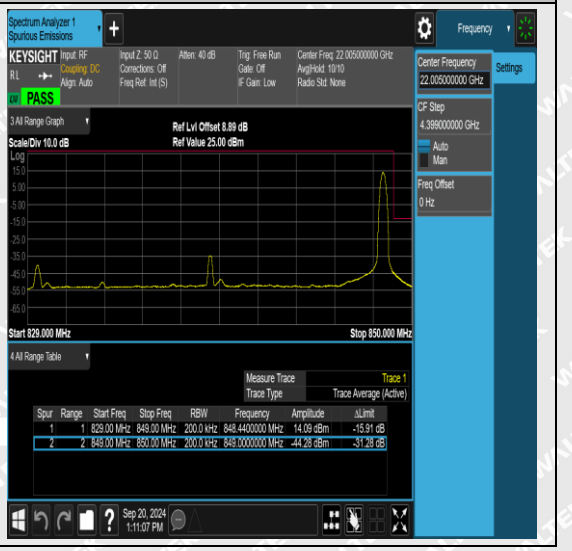




Appendix E: Conducted Spurious Emission for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	StartFreq	StopFreq	Result	Limit	Verdict
N5	15	5	DFT-QPSK	L	Outer_Full	0.009	0.15	-62.31	-33	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	0.15	30	-73.13	-23	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	30	1000	-36.81	-13	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	1000	3000	-36.31	-13	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	3000	12000	-44.13	-13	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	12000	20000	-45.36	-13	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Left	0.009	0.15	-63.06	-33	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Left	0.15	30	-72.50	-23	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Left	30	1000	-46.31	-13	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Left	1000	3000	-36.34	-13	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Left	3000	12000	-43.99	-13	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Left	12000	20000	-45.35	-13	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Right	0.009	0.15	-61.76	-33	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Right	0.15	30	-72.00	-23	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Right	30	1000	-47.99	-13	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Right	1000	3000	-36.40	-13	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Right	3000	12000	-43.95	-13	PASS
N5	15	5	DFT-QPSK	L	Edge_1RB_Right	12000	20000	-45.42	-13	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	0.009	0.15	-62.03	-33	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	0.15	30	-71.90	-23	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	30	1000	-51.21	-13	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	1000	3000	-36.48	-13	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	3000	12000	-43.97	-13	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	12000	20000	-45.32	-13	PASS
N5	15	5	DFT-QPSK	M	Edge_1RB_Left	0.009	0.15	-62.25	-33	PASS
N5	15	5	DFT-QPSK	M	Edge_1RB_Left	0.15	30	-71.64	-23	PASS
N5	15	5	DFT-QPSK	M	Edge_1RB_Left	30	1000	-51.99	-13	PASS
N5	15	5	DFT-QPSK	M	Edge_1RB_Left	1000	3000	-36.33	-13	PASS
N5	15	5	DFT-QPSK	M	Edge_1RB_Left	3000	12000	-44.19	-13	PASS
N5	15	5	DFT-QPSK	M	Edge_1RB_Left	12000	20000	-45.38	-13	PASS
N5	15	5	DFT-QPSK	M	Edge_1RB_Right	0.009	0.15	-62.55	-33	PASS
N5	15	5	DFT-QPSK	M	Edge_1RB_Right	0.15	30	-71.93	-23	PASS
N5	15	5	DFT-QPSK	M	Edge_1RB_Right	30	1000	-52.20	-13	PASS
N5	15	5	DFT-QPSK	M	Edge_1RB_Right	1000	3000	-36.47	-13	PASS
N5	15	5	DFT-QPSK	M	Edge_1RB_Right	3000	12000	-43.81	-13	PASS
N5	15	5	DFT-QPSK	M	Edge_1RB_Right	12000	20000	-45.30	-13	PASS

N5	15	5	DFT-QPSK	H	Outer_Full	0.009	0.15	-61.92	-33	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	0.15	30	-72.95	-23	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	30	1000	-38.64	-13	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	1000	3000	-36.37	-13	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	3000	12000	-43.99	-13	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	12000	20000	-45.40	-13	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Left	0.009	0.15	-62.66	-33	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Left	0.15	30	-71.25	-23	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Left	30	1000	-51.85	-13	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Left	1000	3000	-36.48	-13	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Left	3000	12000	-44.04	-13	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Left	12000	20000	-45.37	-13	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Right	0.009	0.15	-62.61	-33	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Right	0.15	30	-72.78	-23	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Right	30	1000	-51.72	-13	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Right	1000	3000	-36.29	-13	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Right	3000	12000	-44.00	-13	PASS
N5	15	5	DFT-QPSK	H	Edge_1RB_Right	12000	20000	-45.32	-13	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	0.009	0.15	-62.19	-33	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	0.15	30	-71.80	-23	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	30	1000	-36.36	-13	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	1000	3000	-36.44	-13	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	3000	12000	-43.88	-13	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	12000	20000	-45.34	-13	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Left	0.009	0.15	-61.22	-33	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Left	0.15	30	-72.37	-23	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Left	30	1000	-51.47	-13	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Left	1000	3000	-36.43	-13	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Left	3000	12000	-44.07	-13	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Left	12000	20000	-45.22	-13	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Right	0.009	0.15	-62.55	-33	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Right	0.15	30	-71.81	-23	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Right	30	1000	-50.85	-13	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Right	1000	3000	-36.44	-13	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Right	3000	12000	-44.04	-13	PASS
N5	15	10	DFT-QPSK	L	Edge_1RB_Right	12000	20000	-45.30	-13	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	0.009	0.15	-62.45	-33	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	0.15	30	-70.74	-23	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	30	1000	-49.89	-13	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	1000	3000	-36.46	-13	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	3000	12000	-44.14	-13	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	12000	20000	-45.47	-13	PASS

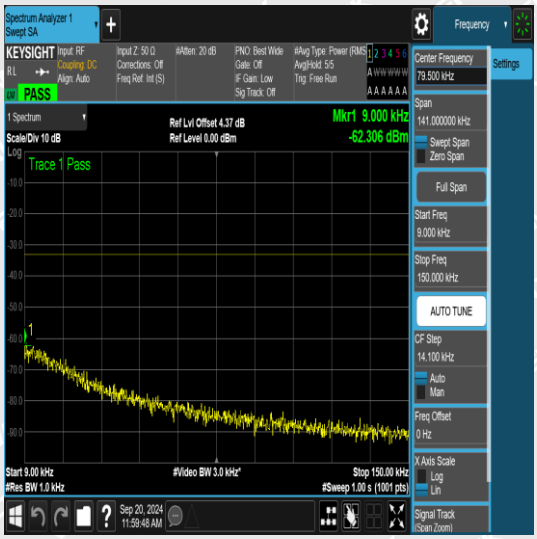
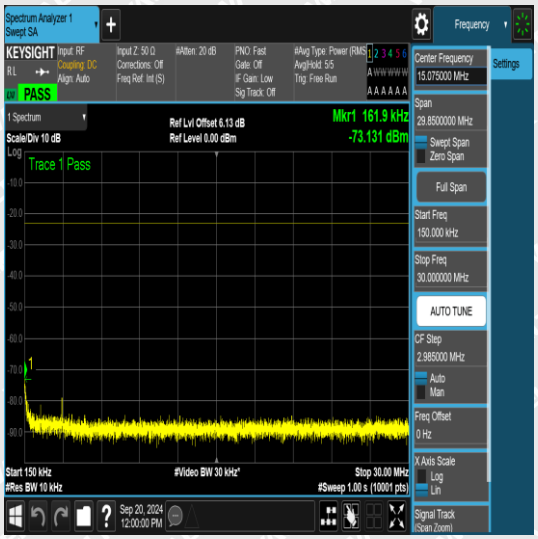
N5	15	10	DFT-QPSK	M	Edge_1RB_Left	0.009	0.15	-61.67	-33	PASS
N5	15	10	DFT-QPSK	M	Edge_1RB_Left	0.15	30	-72.27	-23	PASS
N5	15	10	DFT-QPSK	M	Edge_1RB_Left	30	1000	-51.29	-13	PASS
N5	15	10	DFT-QPSK	M	Edge_1RB_Left	1000	3000	-36.32	-13	PASS
N5	15	10	DFT-QPSK	M	Edge_1RB_Left	3000	12000	-44.10	-13	PASS
N5	15	10	DFT-QPSK	M	Edge_1RB_Left	12000	20000	-45.42	-13	PASS
N5	15	10	DFT-QPSK	M	Edge_1RB_Right	0.009	0.15	-62.32	-33	PASS
N5	15	10	DFT-QPSK	M	Edge_1RB_Right	0.15	30	-72.60	-23	PASS
N5	15	10	DFT-QPSK	M	Edge_1RB_Right	30	1000	-51.14	-13	PASS
N5	15	10	DFT-QPSK	M	Edge_1RB_Right	1000	3000	-36.37	-13	PASS
N5	15	10	DFT-QPSK	M	Edge_1RB_Right	3000	12000	-44.04	-13	PASS
N5	15	10	DFT-QPSK	M	Edge_1RB_Right	12000	20000	-45.41	-13	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	0.009	0.15	-62.99	-33	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	0.15	30	-73.04	-23	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	30	1000	-43.32	-13	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	1000	3000	-36.49	-13	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	3000	12000	-43.97	-13	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	12000	20000	-45.38	-13	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Left	0.009	0.15	-62.28	-33	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Left	0.15	30	-72.42	-23	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Left	30	1000	-51.65	-13	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Left	1000	3000	-36.48	-13	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Left	3000	12000	-43.95	-13	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Left	12000	20000	-45.45	-13	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Right	0.009	0.15	-60.50	-33	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Right	0.15	30	-71.61	-23	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Right	30	1000	-51.69	-13	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Right	1000	3000	-36.43	-13	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Right	3000	12000	-44.11	-13	PASS
N5	15	10	DFT-QPSK	H	Edge_1RB_Right	12000	20000	-45.41	-13	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	0.009	0.15	-61.02	-33	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	0.15	30	-72.50	-23	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	30	1000	-41.56	-13	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	1000	3000	-36.53	-13	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	3000	12000	-44.02	-13	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	12000	20000	-45.34	-13	PASS
N5	15	15	DFT-QPSK	L	Edge_1RB_Left	0.009	0.15	-62.01	-33	PASS
N5	15	15	DFT-QPSK	L	Edge_1RB_Left	0.15	30	-71.87	-23	PASS
N5	15	15	DFT-QPSK	L	Edge_1RB_Left	30	1000	-50.98	-13	PASS
N5	15	15	DFT-QPSK	L	Edge_1RB_Left	1000	3000	-36.46	-13	PASS
N5	15	15	DFT-QPSK	L	Edge_1RB_Left	3000	12000	-44.15	-13	PASS
N5	15	15	DFT-QPSK	L	Edge_1RB_Left	12000	20000	-45.16	-13	PASS

N5	15	15	DFT-QPSK	L	Edge_1RB_Right	0.009	0.15	-62.04	-33	PASS
N5	15	15	DFT-QPSK	L	Edge_1RB_Right	0.15	30	-71.72	-23	PASS
N5	15	15	DFT-QPSK	L	Edge_1RB_Right	30	1000	-51.90	-13	PASS
N5	15	15	DFT-QPSK	L	Edge_1RB_Right	1000	3000	-36.37	-13	PASS
N5	15	15	DFT-QPSK	L	Edge_1RB_Right	3000	12000	-43.99	-13	PASS
N5	15	15	DFT-QPSK	L	Edge_1RB_Right	12000	20000	-45.36	-13	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	0.009	0.15	-61.27	-33	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	0.15	30	-73.55	-23	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	30	1000	-48.01	-13	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	1000	3000	-36.44	-13	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	3000	12000	-44.05	-13	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	12000	20000	-45.29	-13	PASS
N5	15	15	DFT-QPSK	M	Edge_1RB_Left	0.009	0.15	-62.86	-33	PASS
N5	15	15	DFT-QPSK	M	Edge_1RB_Left	0.15	30	-72.61	-23	PASS
N5	15	15	DFT-QPSK	M	Edge_1RB_Left	30	1000	-51.72	-13	PASS
N5	15	15	DFT-QPSK	M	Edge_1RB_Left	1000	3000	-36.47	-13	PASS
N5	15	15	DFT-QPSK	M	Edge_1RB_Left	3000	12000	-44.06	-13	PASS
N5	15	15	DFT-QPSK	M	Edge_1RB_Left	12000	20000	-45.47	-13	PASS
N5	15	15	DFT-QPSK	M	Edge_1RB_Right	0.009	0.15	-62.47	-33	PASS
N5	15	15	DFT-QPSK	M	Edge_1RB_Right	0.15	30	-72.28	-23	PASS
N5	15	15	DFT-QPSK	M	Edge_1RB_Right	30	1000	-51.03	-13	PASS
N5	15	15	DFT-QPSK	M	Edge_1RB_Right	1000	3000	-36.47	-13	PASS
N5	15	15	DFT-QPSK	M	Edge_1RB_Right	3000	12000	-44.01	-13	PASS
N5	15	15	DFT-QPSK	M	Edge_1RB_Right	12000	20000	-45.41	-13	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	0.009	0.15	-62.19	-33	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	0.15	30	-72.32	-23	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	30	1000	-46.18	-13	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	1000	3000	-36.49	-13	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	3000	12000	-43.80	-13	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	12000	20000	-45.19	-13	PASS
N5	15	15	DFT-QPSK	H	Edge_1RB_Left	0.009	0.15	-62.03	-33	PASS
N5	15	15	DFT-QPSK	H	Edge_1RB_Left	0.15	30	-72.44	-23	PASS
N5	15	15	DFT-QPSK	H	Edge_1RB_Left	30	1000	-52.27	-13	PASS
N5	15	15	DFT-QPSK	H	Edge_1RB_Left	1000	3000	-36.47	-13	PASS
N5	15	15	DFT-QPSK	H	Edge_1RB_Left	3000	12000	-44.09	-13	PASS
N5	15	15	DFT-QPSK	H	Edge_1RB_Left	12000	20000	-45.28	-13	PASS
N5	15	15	DFT-QPSK	H	Edge_1RB_Right	0.009	0.15	-61.60	-33	PASS
N5	15	15	DFT-QPSK	H	Edge_1RB_Right	0.15	30	-71.77	-23	PASS
N5	15	15	DFT-QPSK	H	Edge_1RB_Right	30	1000	-50.31	-13	PASS
N5	15	15	DFT-QPSK	H	Edge_1RB_Right	1000	3000	-36.43	-13	PASS
N5	15	15	DFT-QPSK	H	Edge_1RB_Right	3000	12000	-44.04	-13	PASS
N5	15	15	DFT-QPSK	H	Edge_1RB_Right	12000	20000	-45.43	-13	PASS

N5	15	20	DFT-QPSK	L	Outer_Full	0.009	0.15	-61.86	-33	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	0.15	30	-72.90	-23	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	30	1000	-39.68	-13	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	1000	3000	-36.44	-13	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	3000	12000	-44.05	-13	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	12000	20000	-45.27	-13	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Left	0.009	0.15	-60.76	-33	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Left	0.15	30	-73.29	-23	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Left	30	1000	-51.91	-13	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Left	1000	3000	-36.51	-13	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Left	3000	12000	-44.05	-13	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Left	12000	20000	-45.40	-13	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Right	0.009	0.15	-62.67	-33	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Right	0.15	30	-72.60	-23	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Right	30	1000	-52.00	-13	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Right	1000	3000	-36.26	-13	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Right	3000	12000	-44.11	-13	PASS
N5	15	20	DFT-QPSK	L	Edge_1RB_Right	12000	20000	-45.46	-13	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	0.009	0.15	-62.70	-33	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	0.15	30	-71.25	-23	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	30	1000	-44.65	-13	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	1000	3000	-36.50	-13	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	3000	12000	-44.16	-13	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	12000	20000	-45.39	-13	PASS
N5	15	20	DFT-QPSK	M	Edge_1RB_Left	0.009	0.15	-61.44	-33	PASS
N5	15	20	DFT-QPSK	M	Edge_1RB_Left	0.15	30	-72.47	-23	PASS
N5	15	20	DFT-QPSK	M	Edge_1RB_Left	30	1000	-51.95	-13	PASS
N5	15	20	DFT-QPSK	M	Edge_1RB_Left	1000	3000	-36.47	-13	PASS
N5	15	20	DFT-QPSK	M	Edge_1RB_Left	3000	12000	-44.04	-13	PASS
N5	15	20	DFT-QPSK	M	Edge_1RB_Left	12000	20000	-45.43	-13	PASS
N5	15	20	DFT-QPSK	M	Edge_1RB_Right	0.009	0.15	-62.57	-33	PASS
N5	15	20	DFT-QPSK	M	Edge_1RB_Right	0.15	30	-72.66	-23	PASS
N5	15	20	DFT-QPSK	M	Edge_1RB_Right	30	1000	-51.30	-13	PASS
N5	15	20	DFT-QPSK	M	Edge_1RB_Right	1000	3000	-36.45	-13	PASS
N5	15	20	DFT-QPSK	M	Edge_1RB_Right	3000	12000	-44.20	-13	PASS
N5	15	20	DFT-QPSK	M	Edge_1RB_Right	12000	20000	-45.52	-13	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	0.009	0.15	-60.70	-33	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	0.15	30	-72.31	-23	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	30	1000	-47.96	-13	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	1000	3000	-36.48	-13	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	3000	12000	-44.29	-13	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	12000	20000	-45.43	-13	PASS

N5	15	20	DFT-QPSK	H	Edge_1RB_Left	0.009	0.15	-62.91	-33	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Left	0.15	30	-71.61	-23	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Left	30	1000	-51.98	-13	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Left	1000	3000	-36.46	-13	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Left	3000	12000	-44.10	-13	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Left	12000	20000	-45.49	-13	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Right	0.009	0.15	-62.89	-33	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Right	0.15	30	-70.63	-23	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Right	30	1000	-51.69	-13	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Right	1000	3000	-36.27	-13	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Right	3000	12000	-44.09	-13	PASS
N5	15	20	DFT-QPSK	H	Edge_1RB_Right	12000	20000	-45.46	-13	PASS

Test Graphs

NTNV_N5_PC3_15_5_L_TID18_NS_01_0.009_0.15_#1	NTNV_N5_PC3_15_5_L_TID18_NS_01_0.15_30_#1
	
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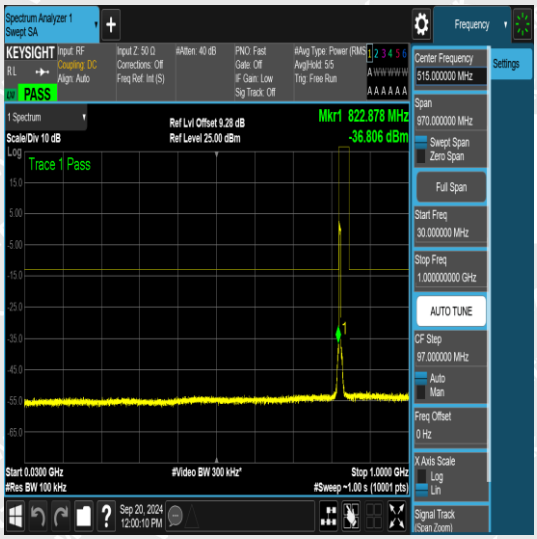	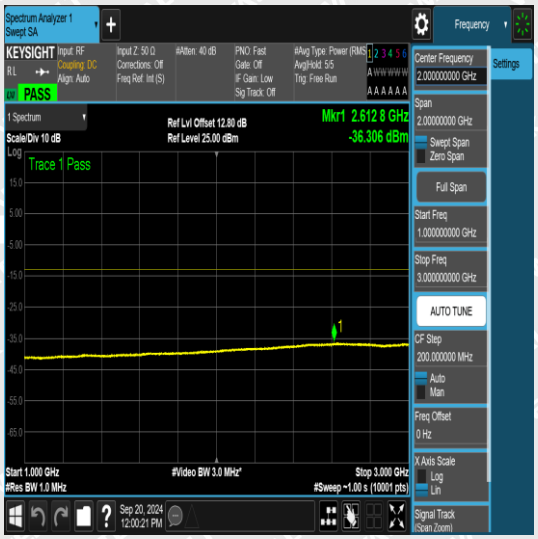
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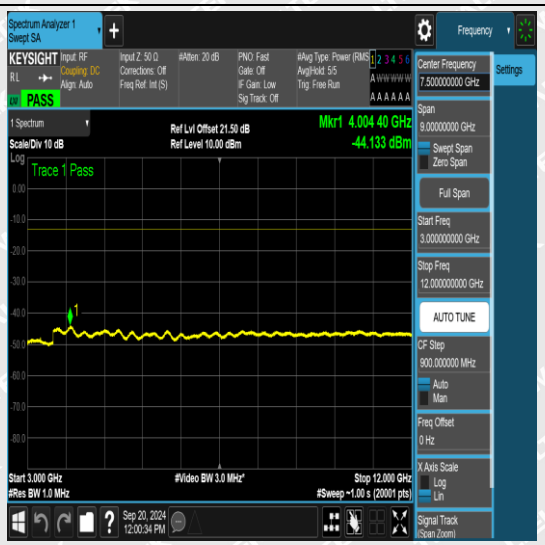

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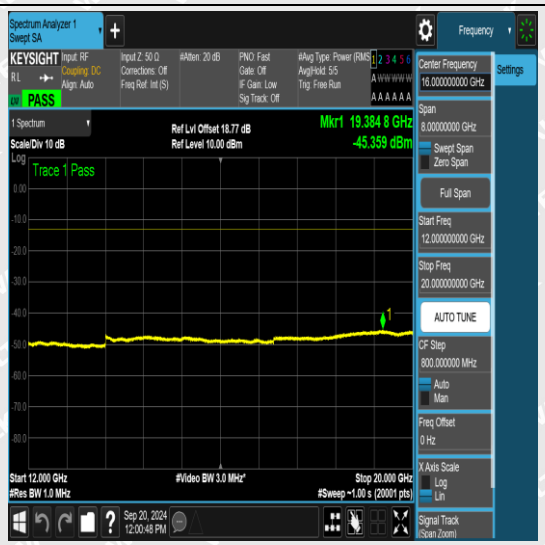

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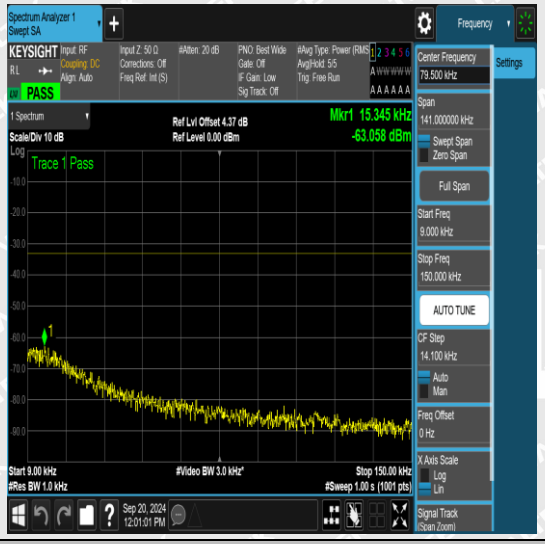

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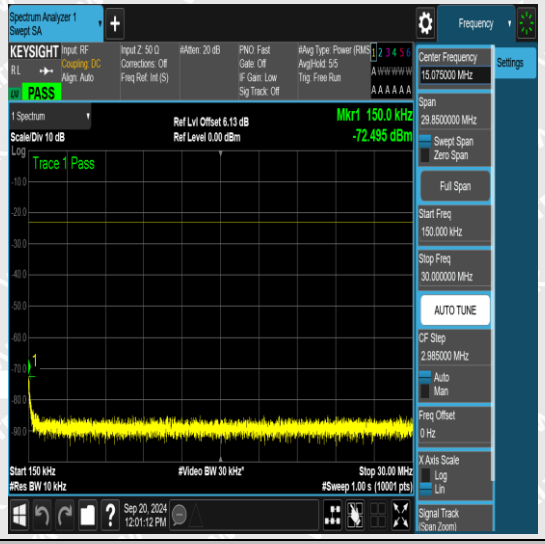

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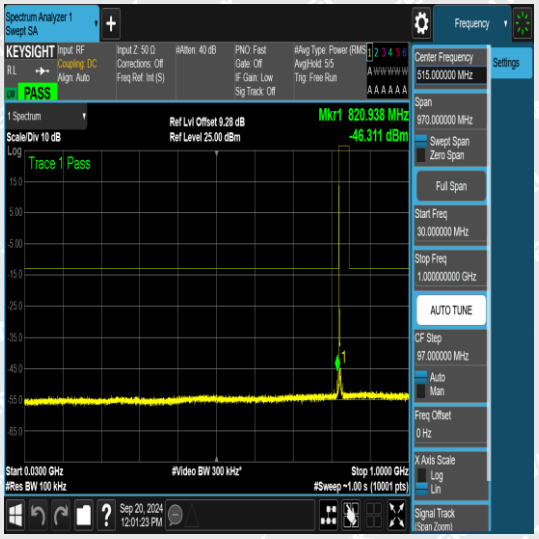

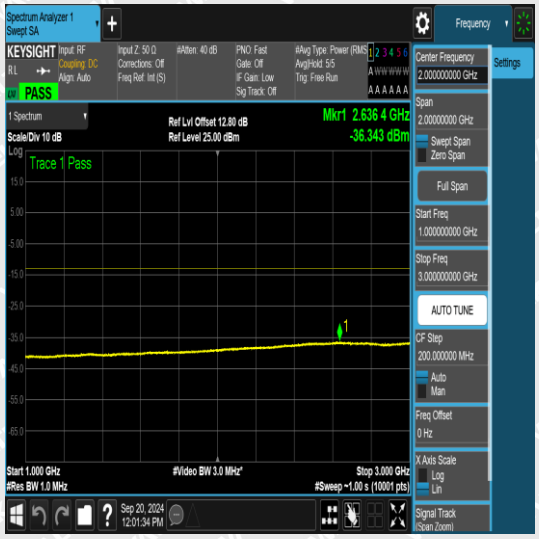

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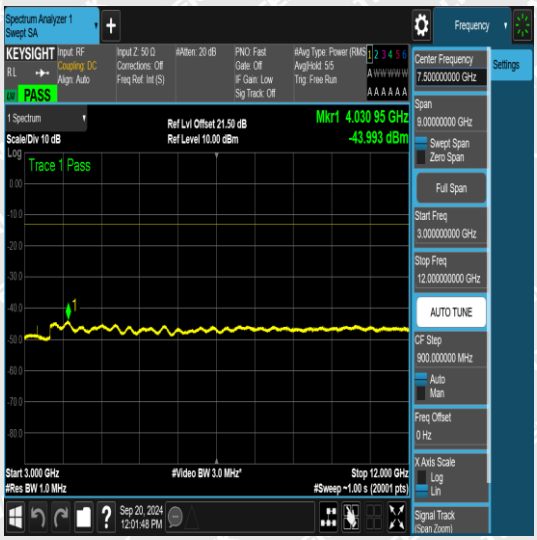	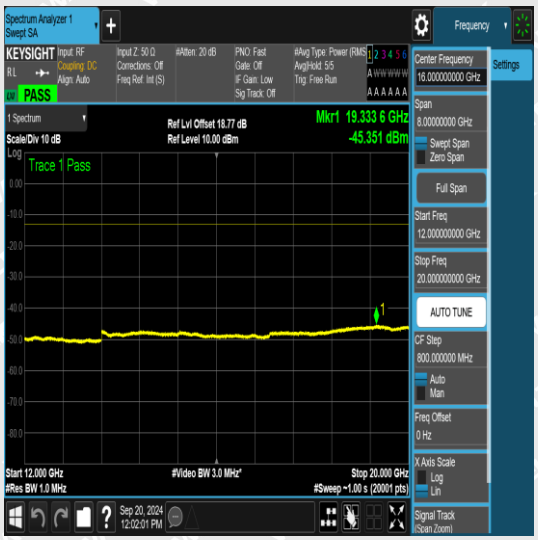
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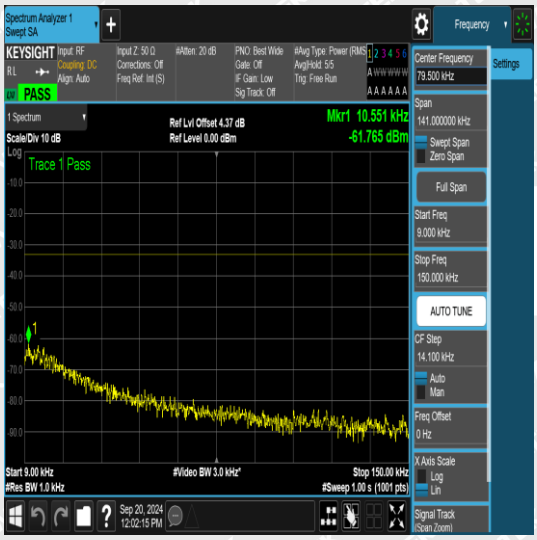	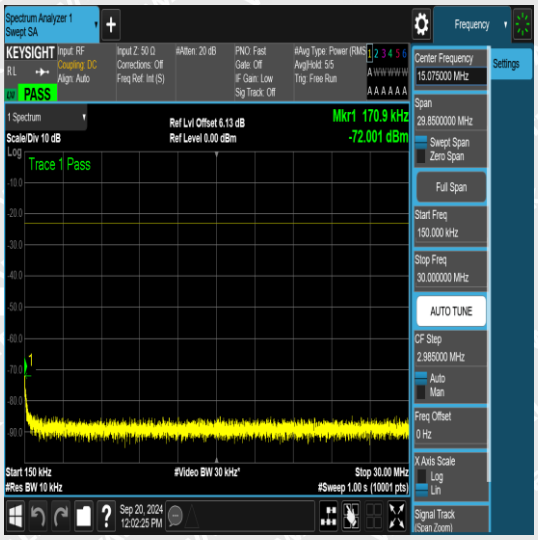
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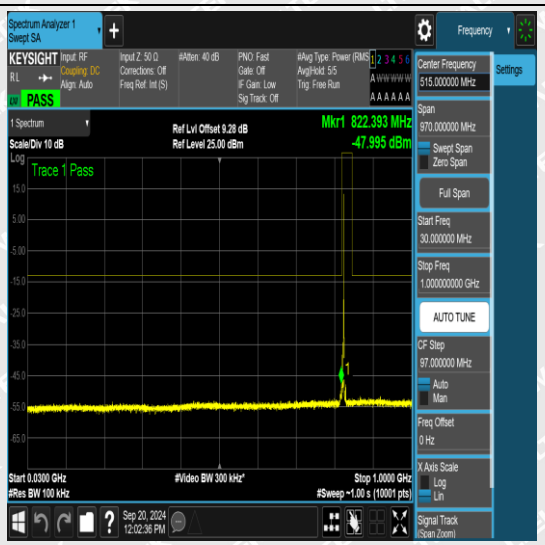

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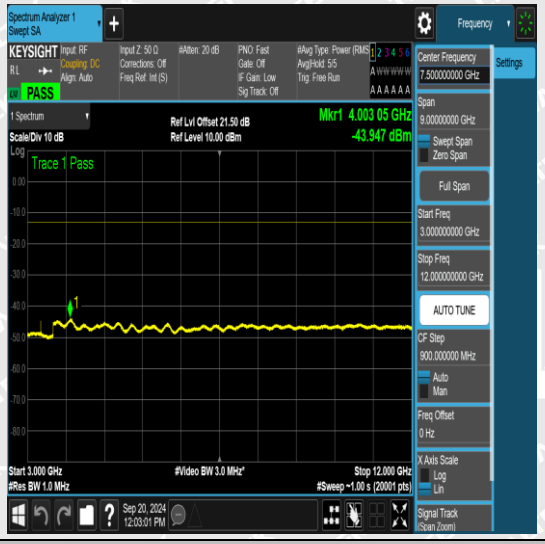

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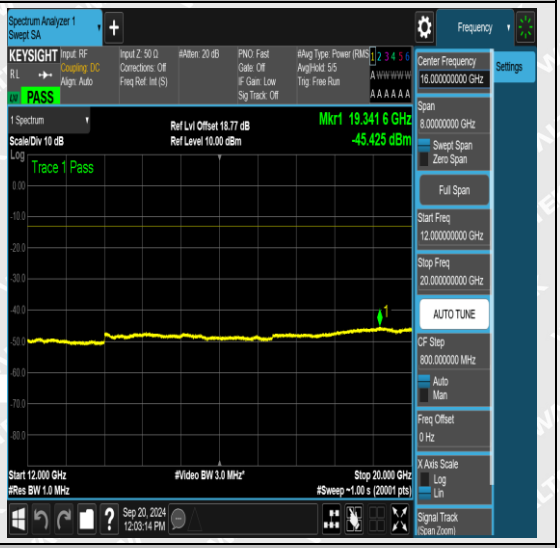

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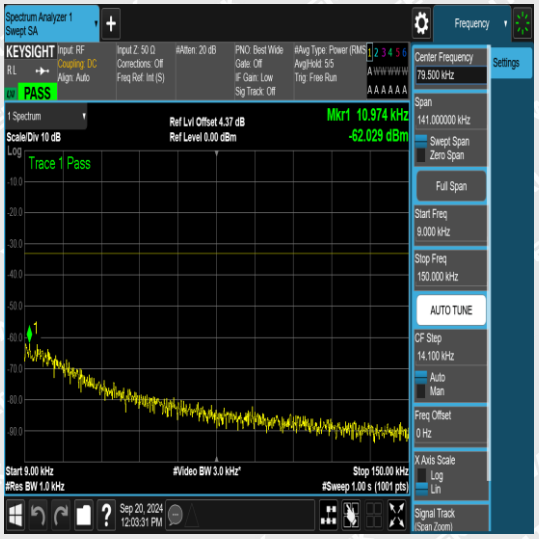

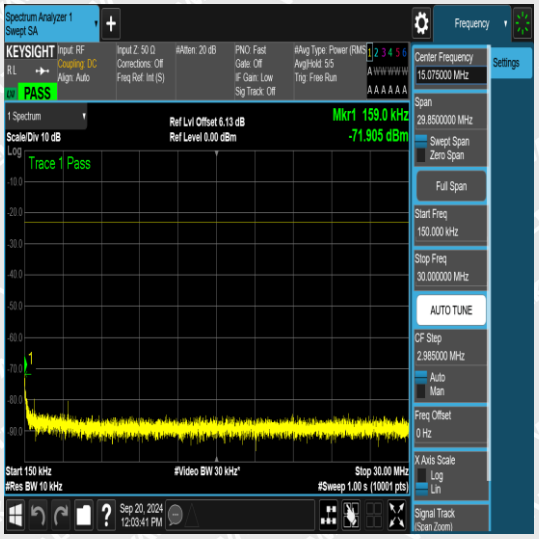

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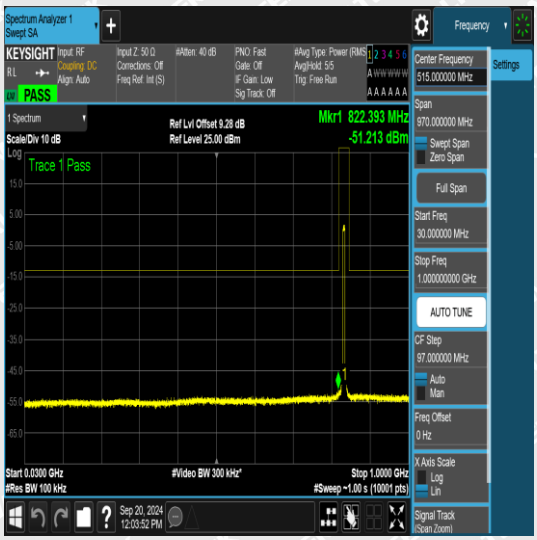	
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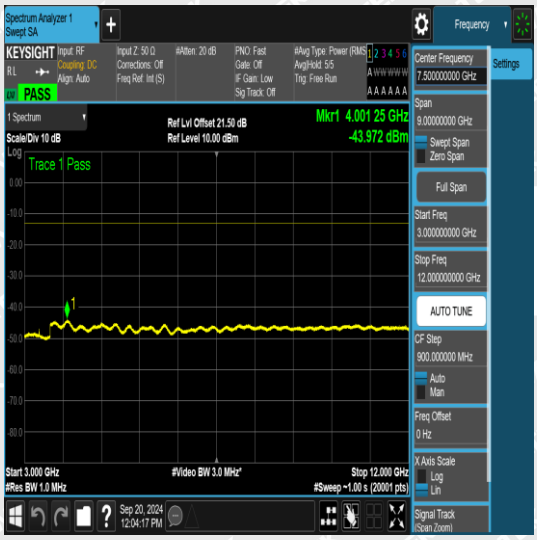	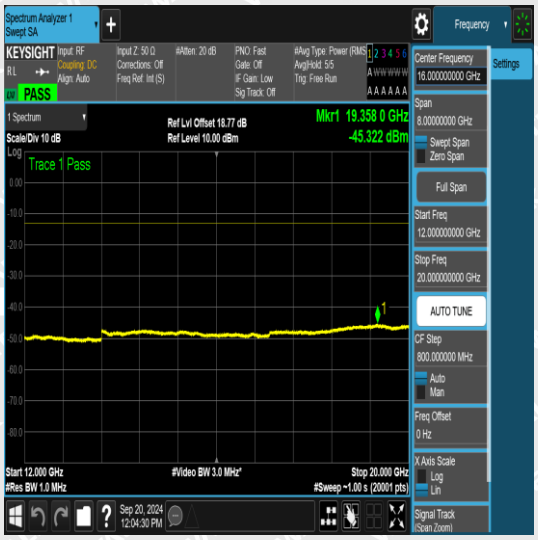
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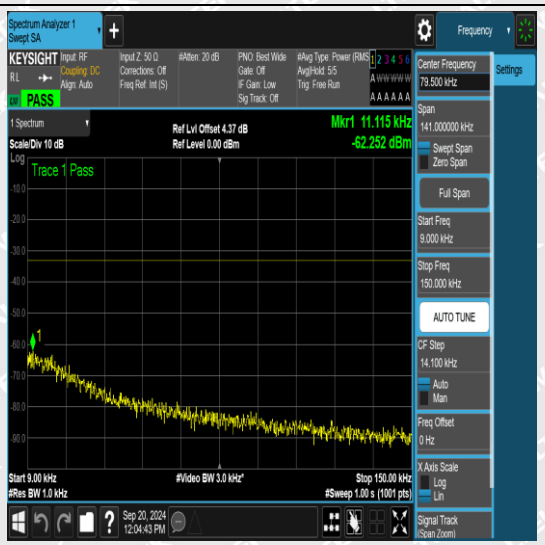

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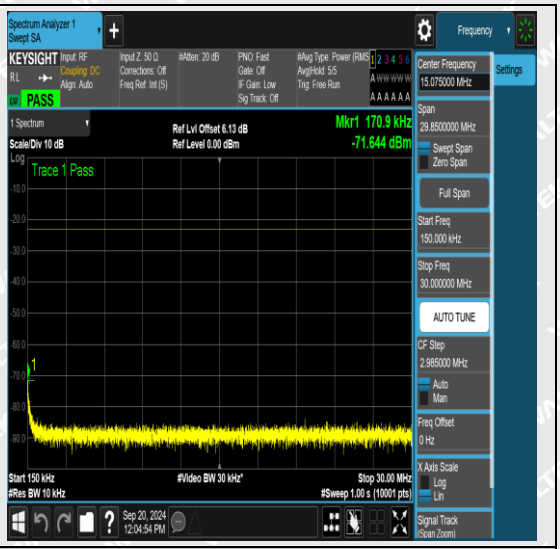

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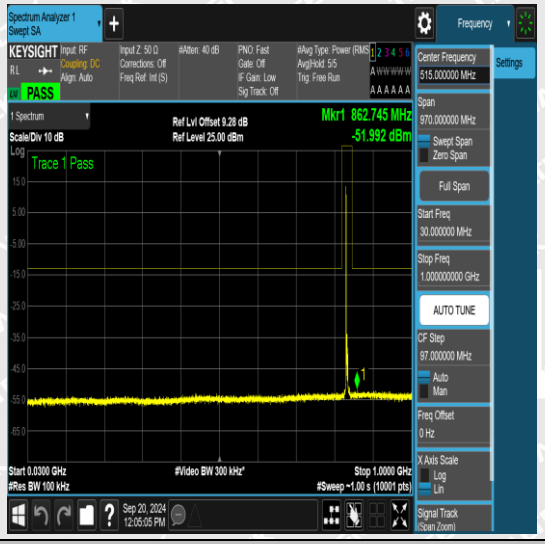

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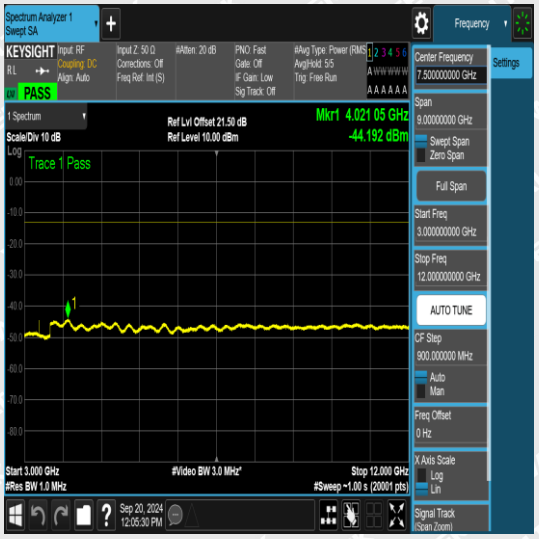

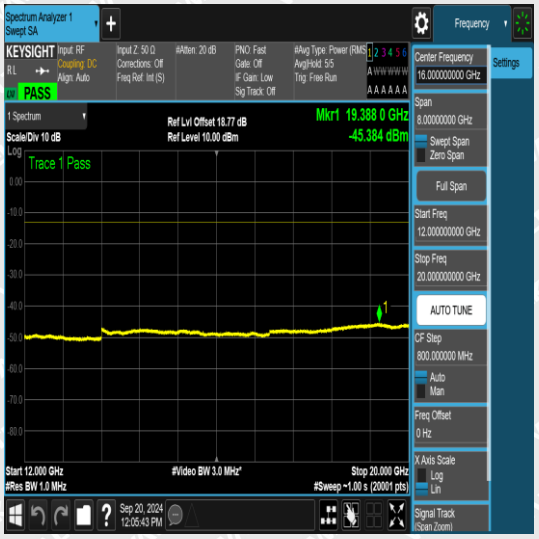

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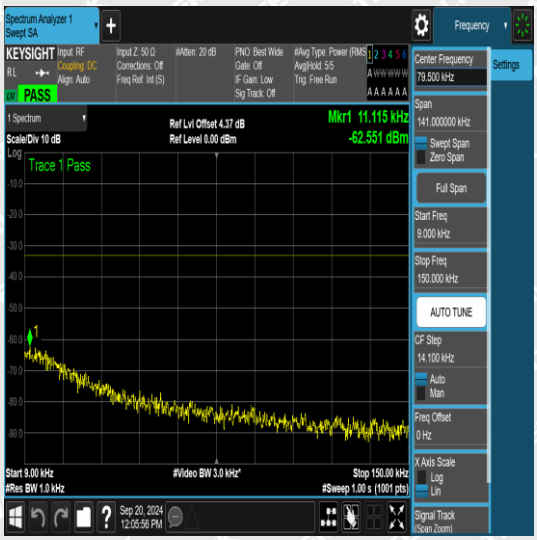	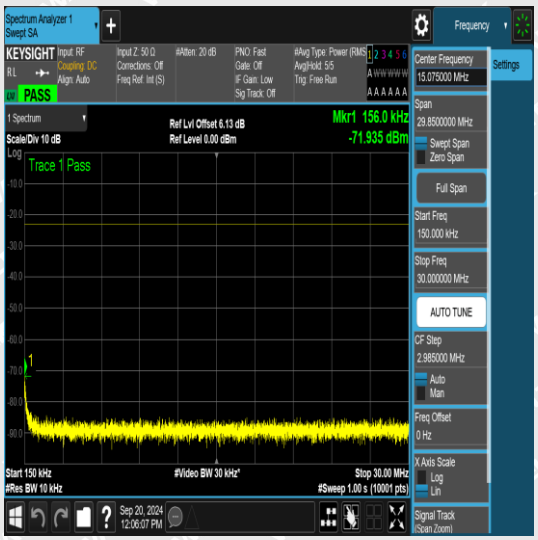
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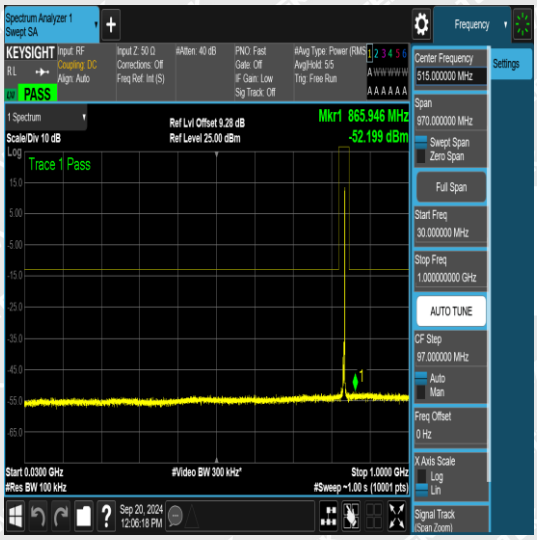	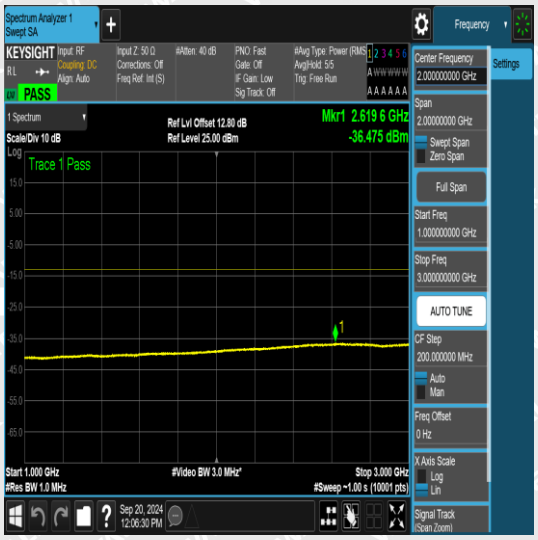
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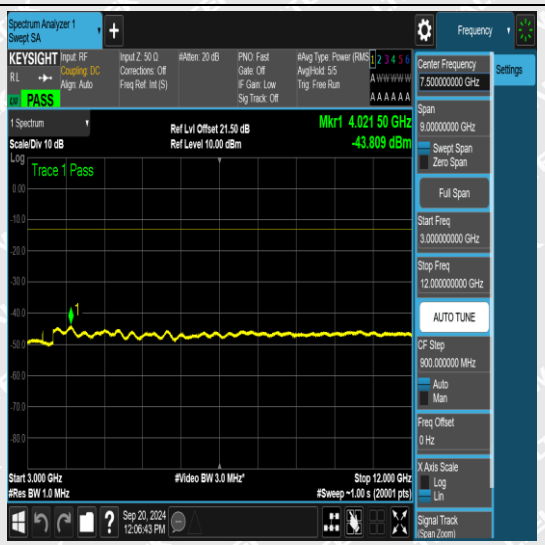

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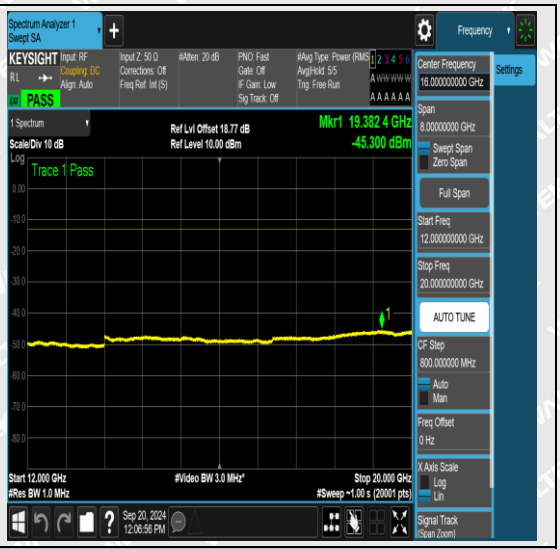

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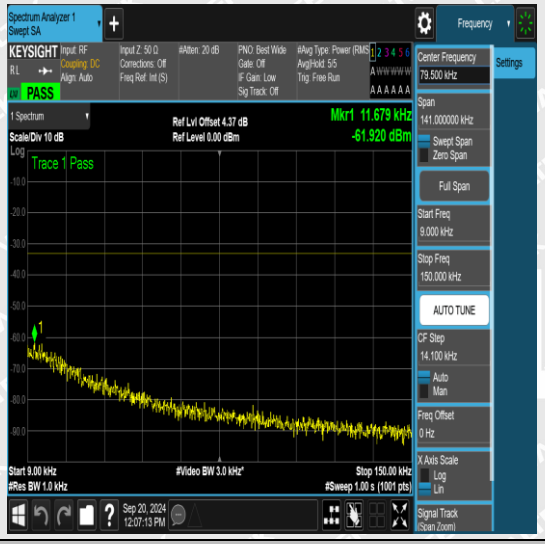

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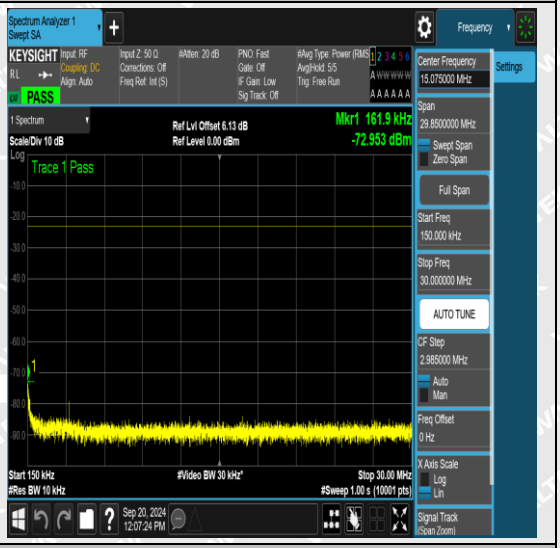

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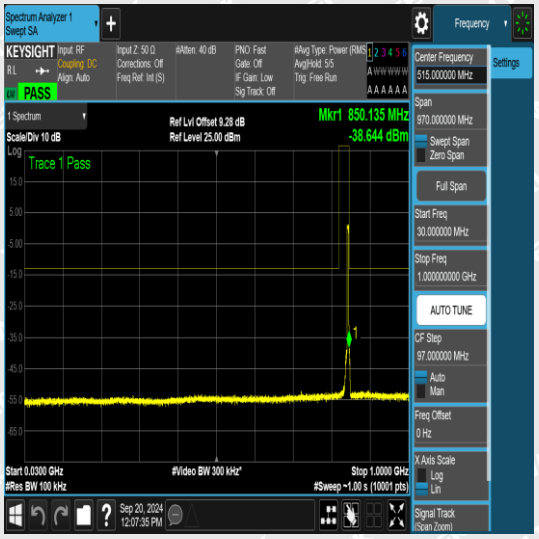

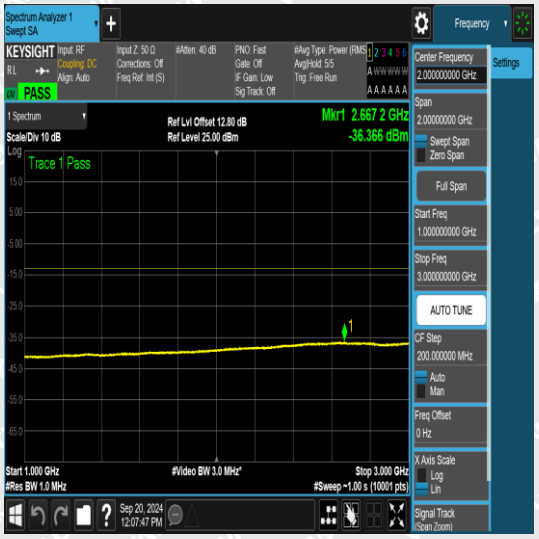

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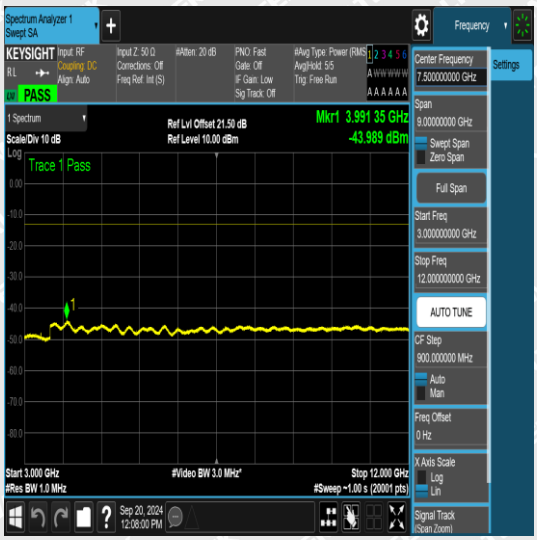	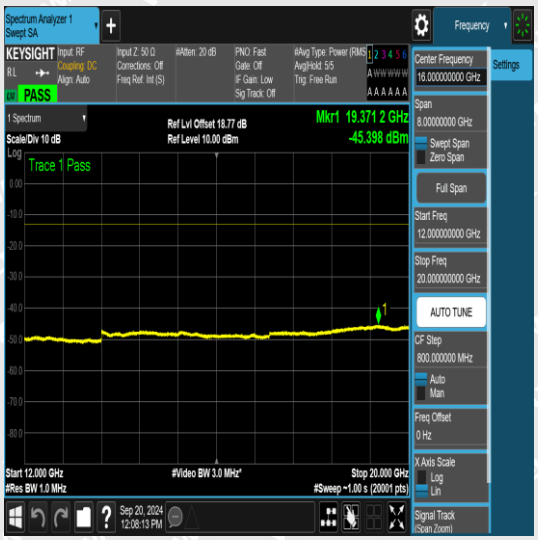
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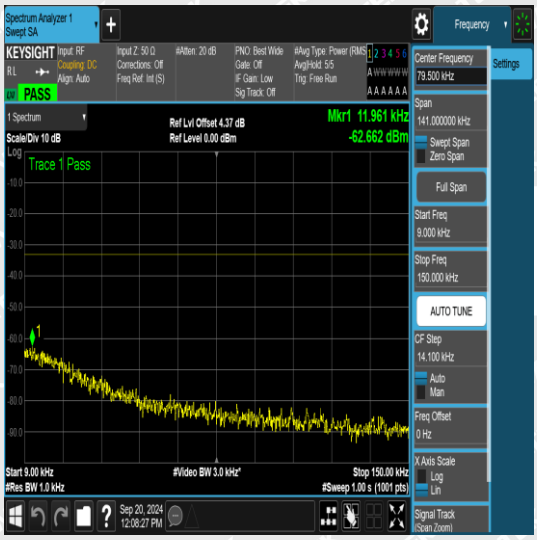	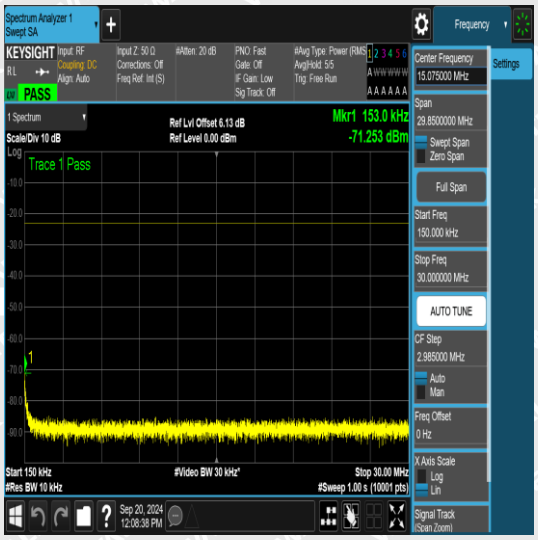
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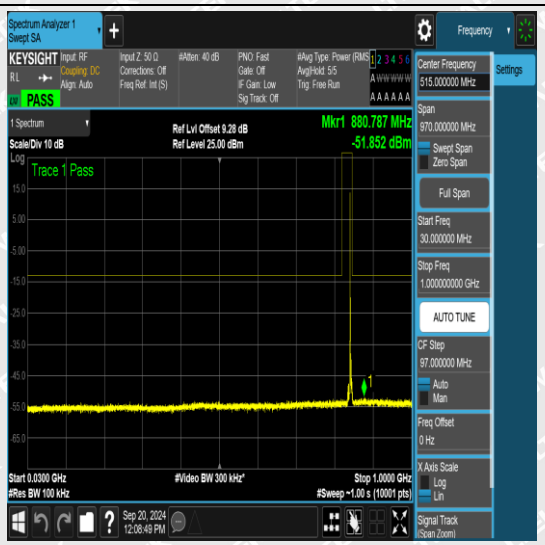

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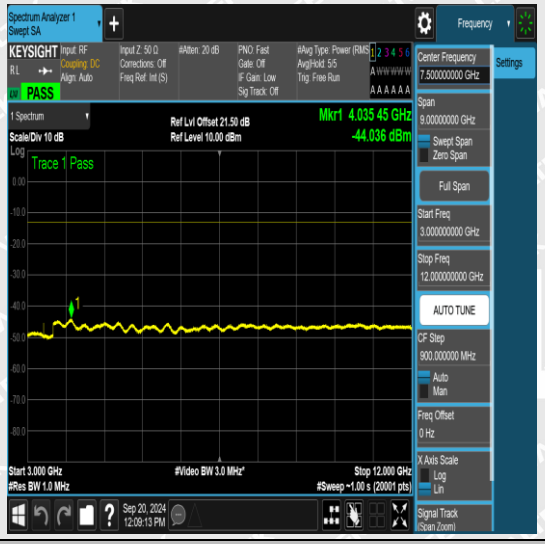

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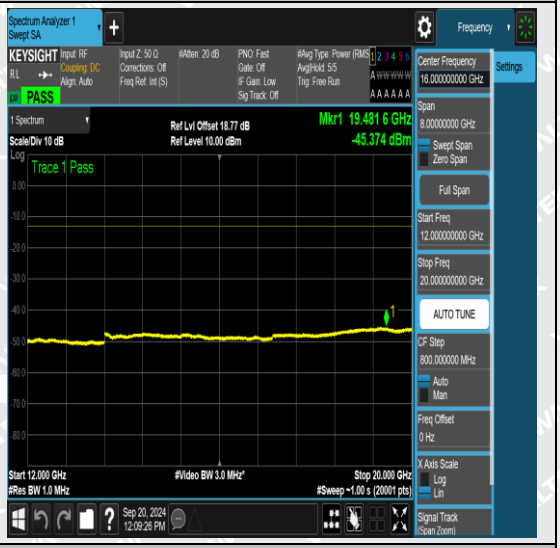

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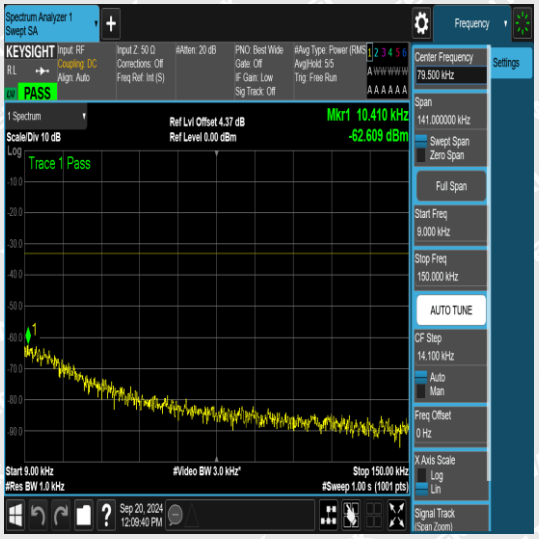

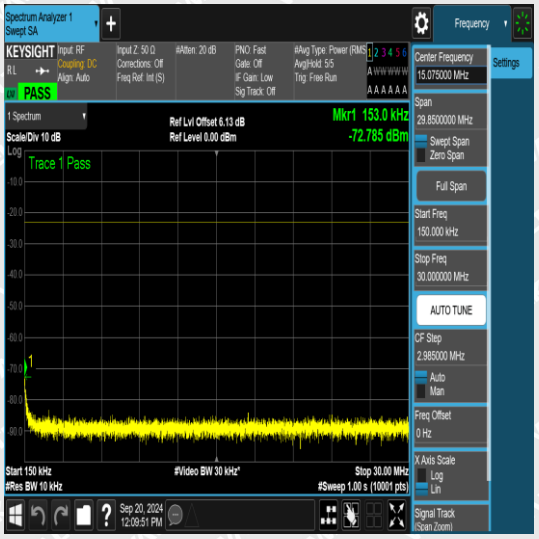

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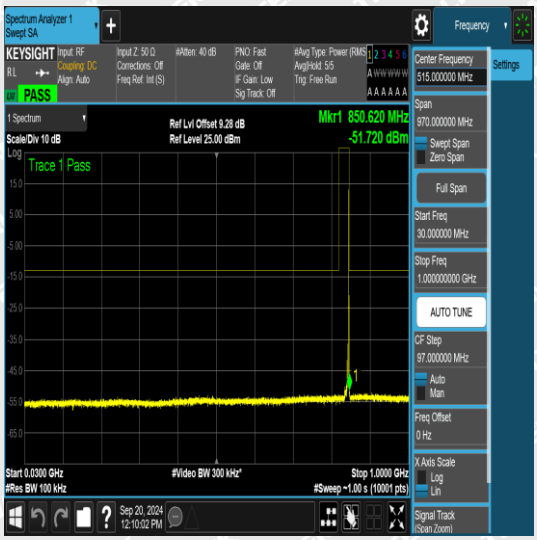	
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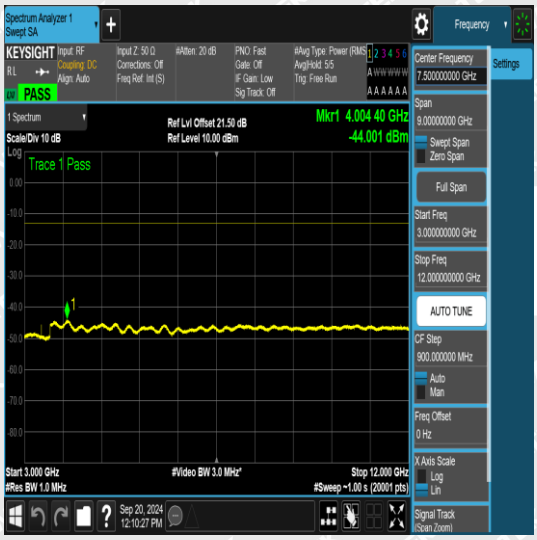	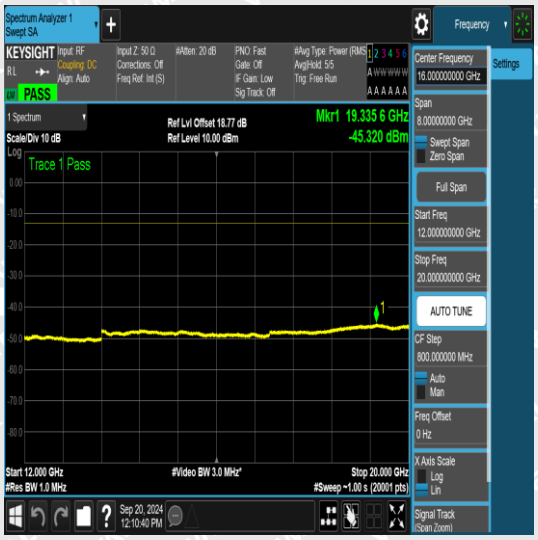
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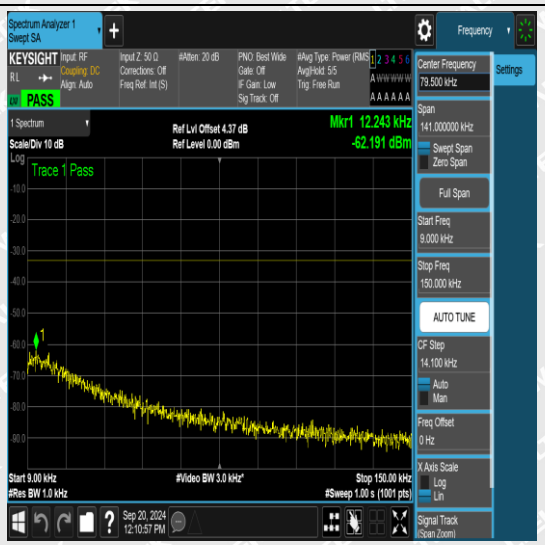

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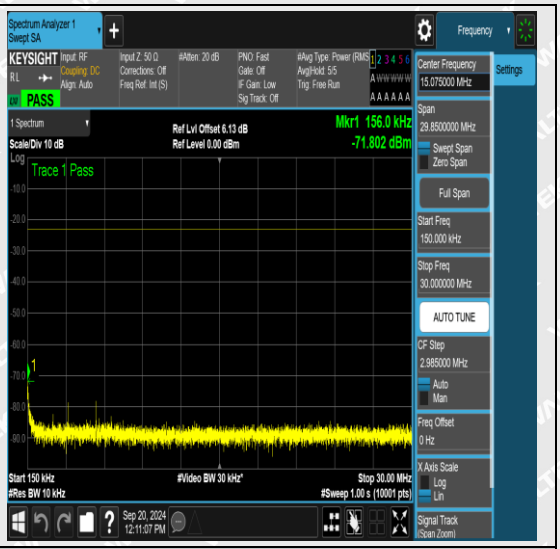

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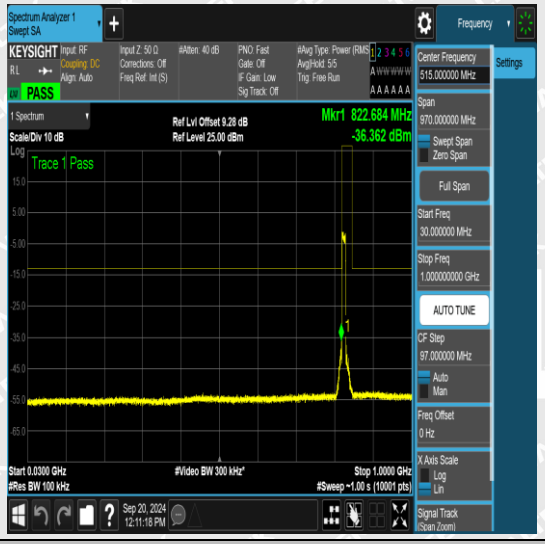

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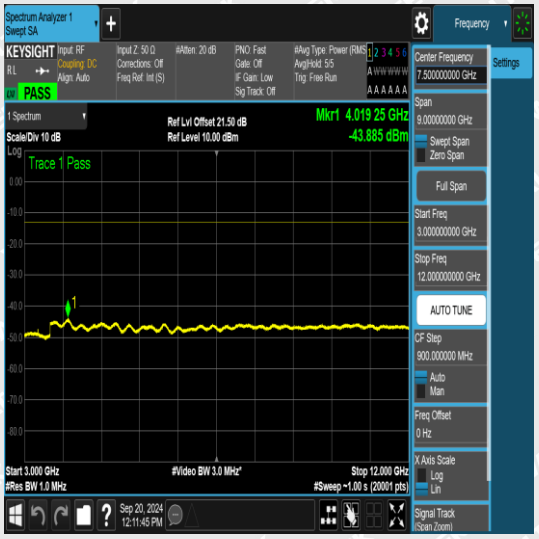

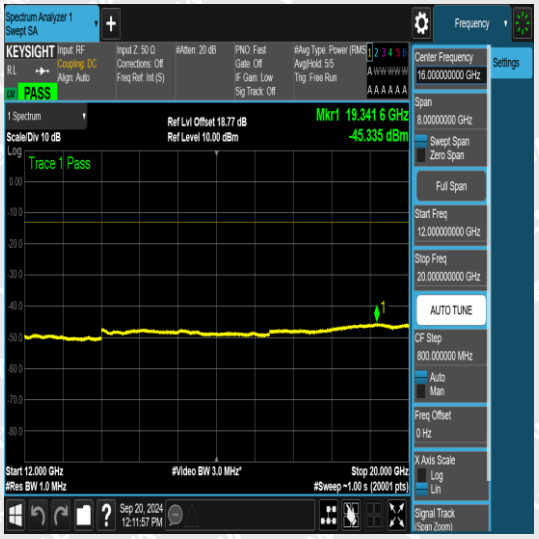

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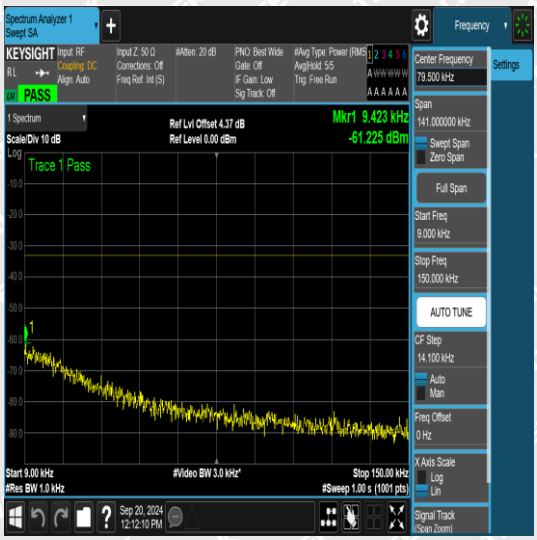	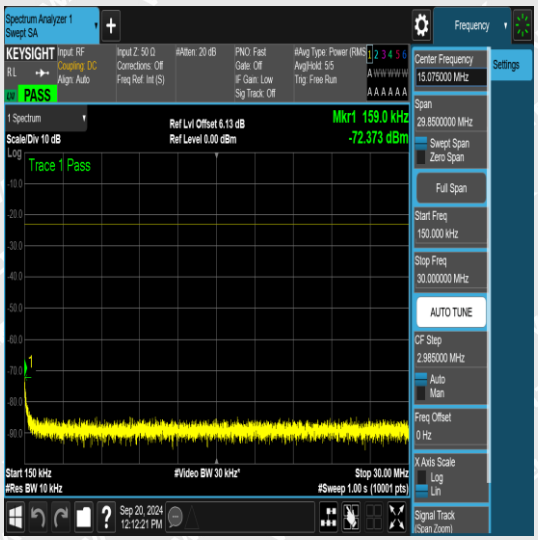
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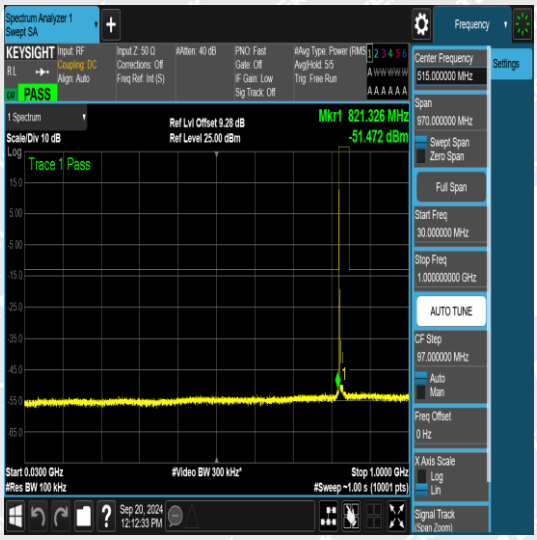	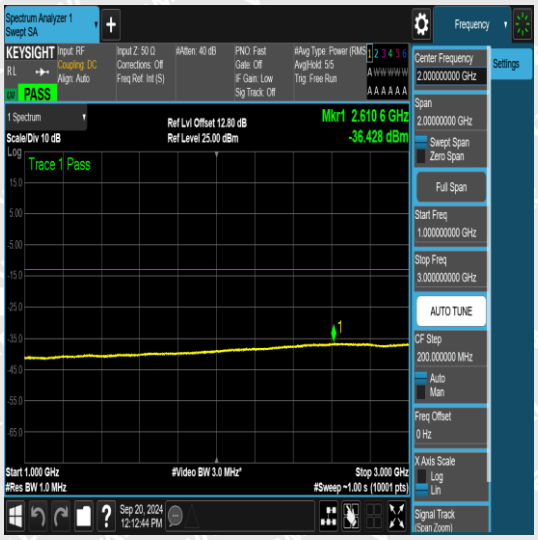
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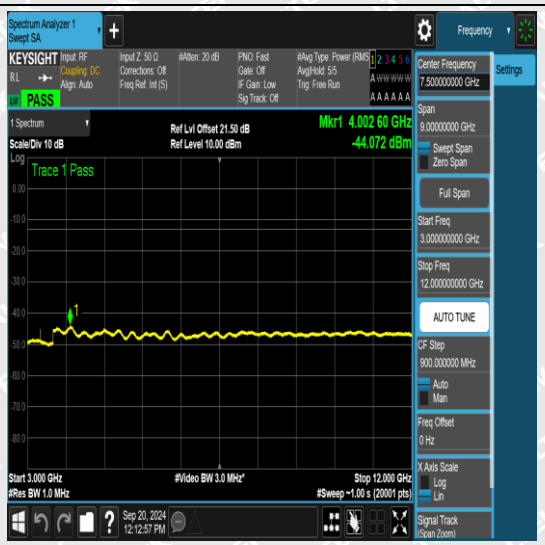

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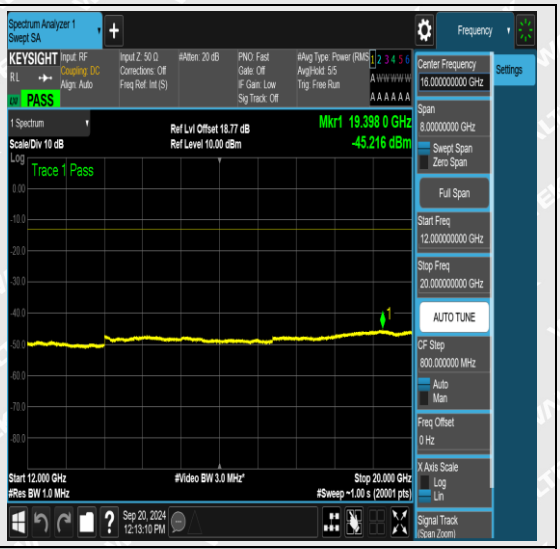

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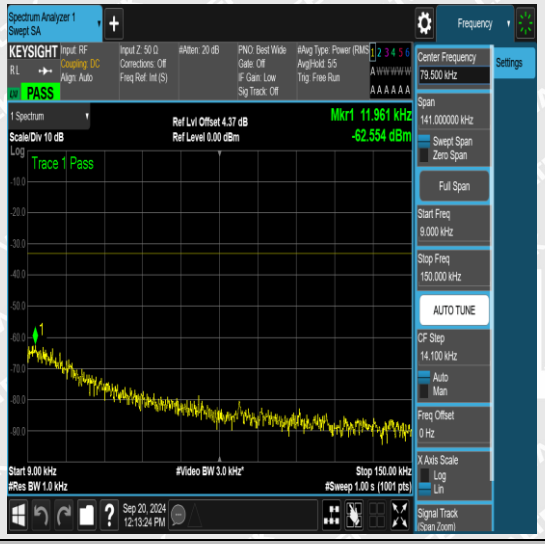

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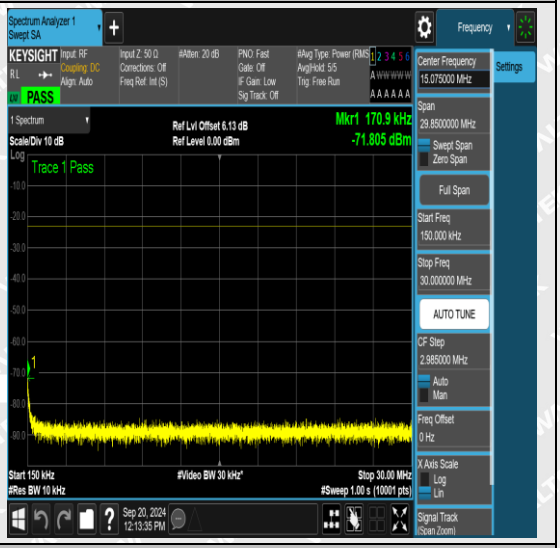

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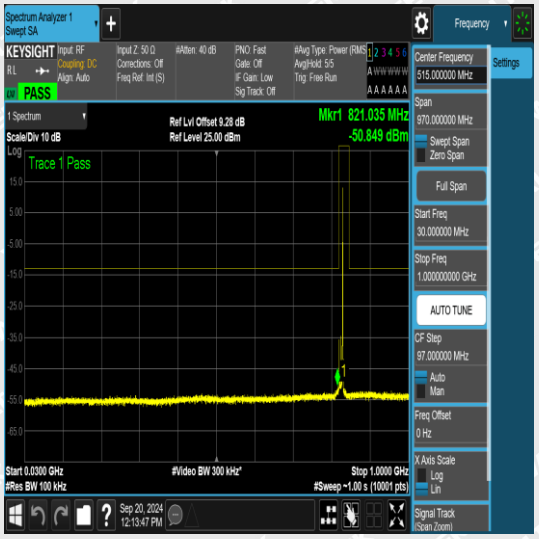

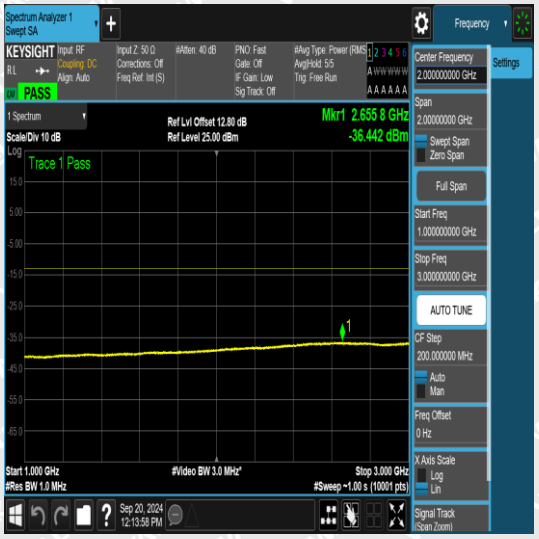

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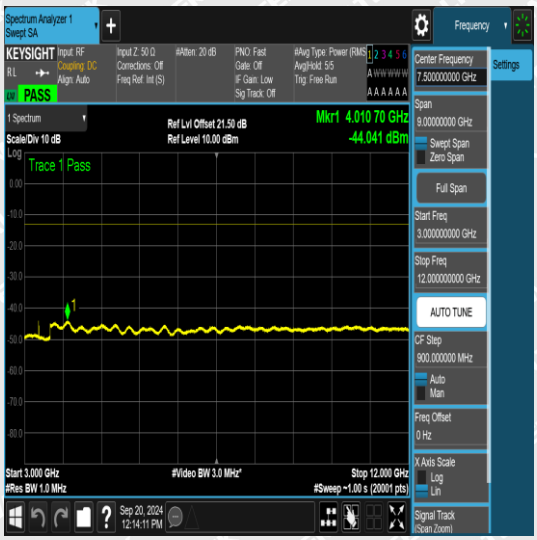	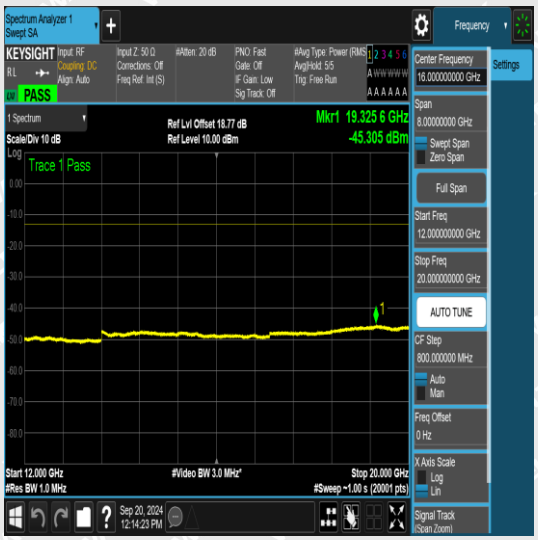
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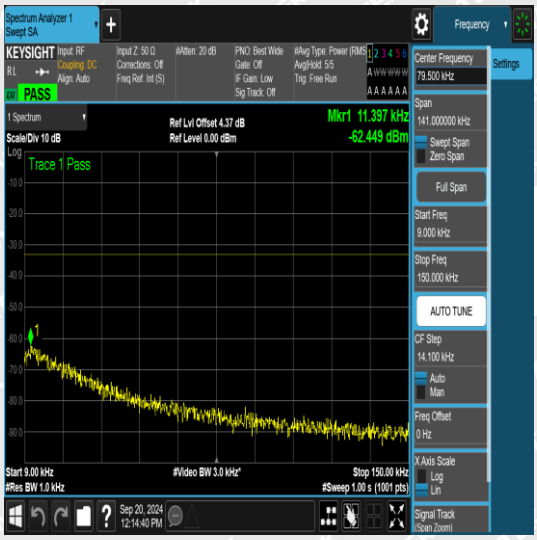	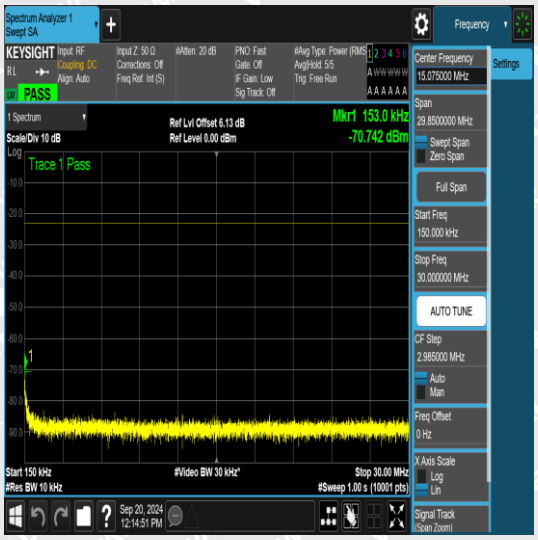
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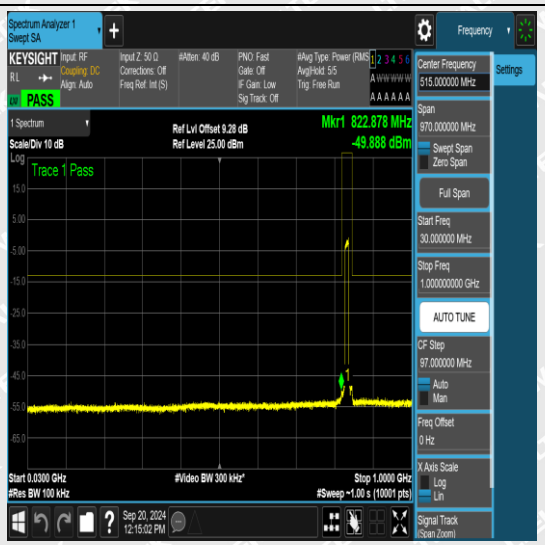

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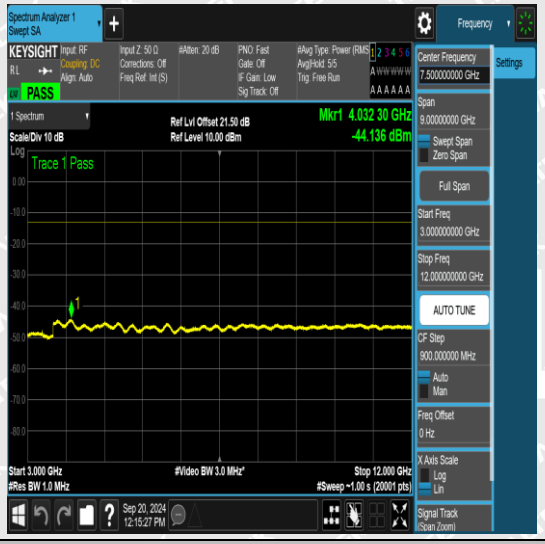

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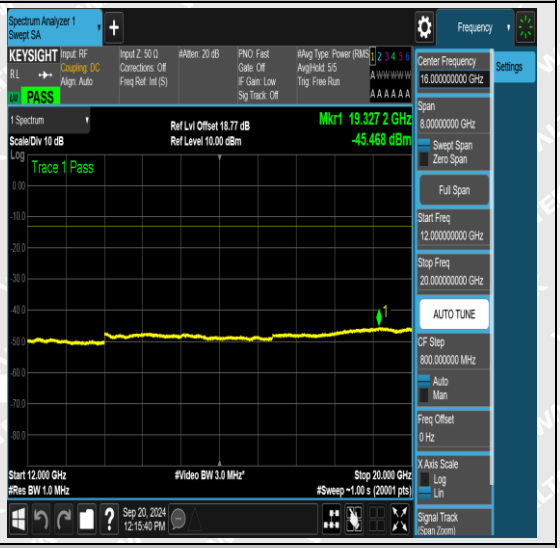

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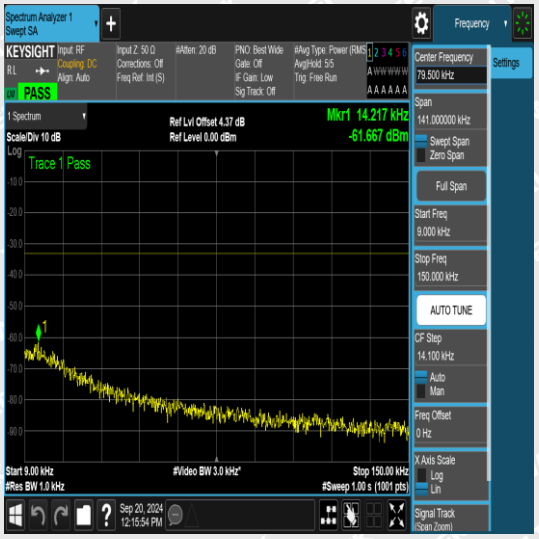

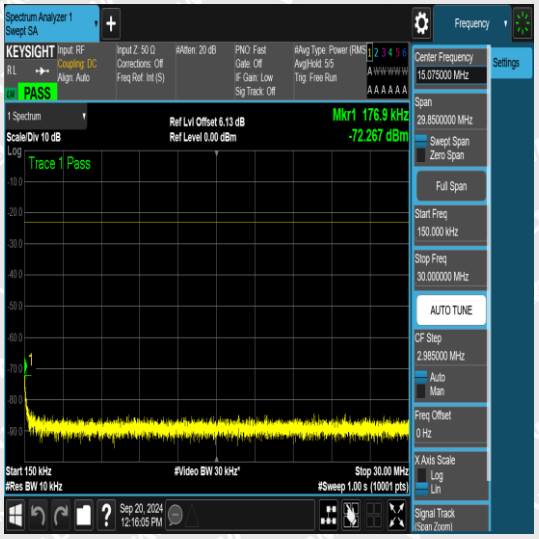

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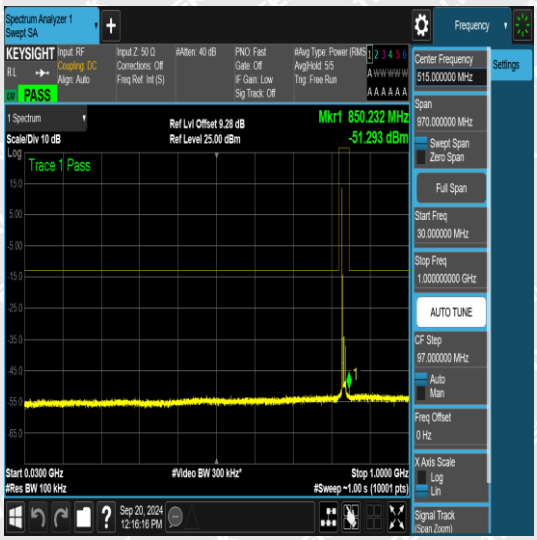	
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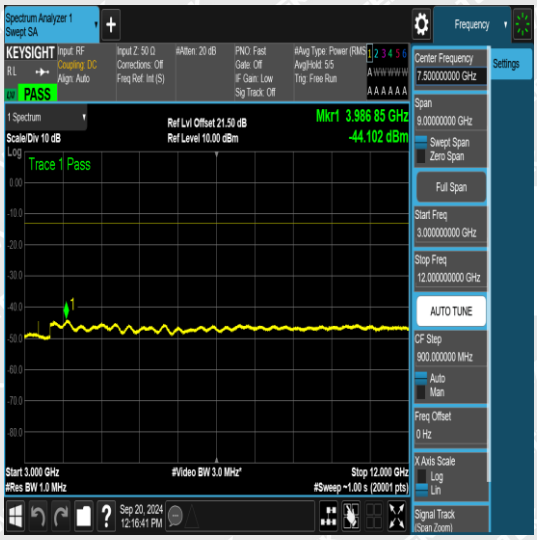	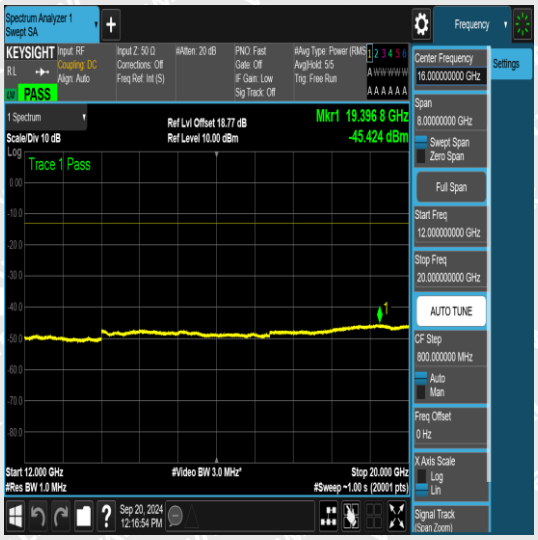
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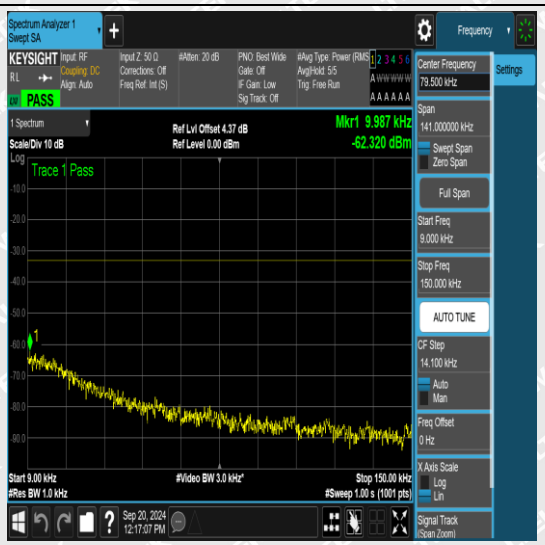

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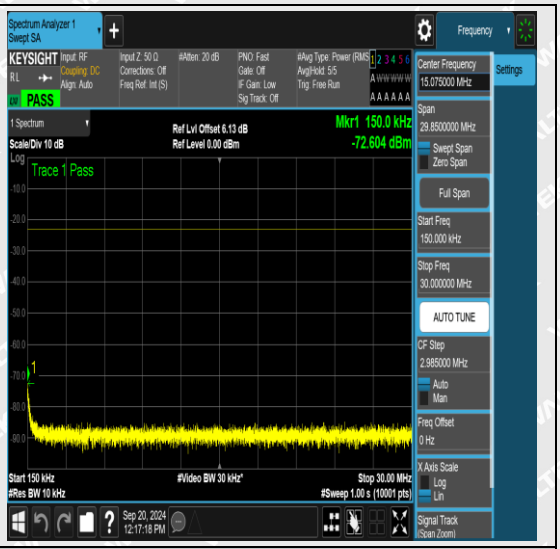

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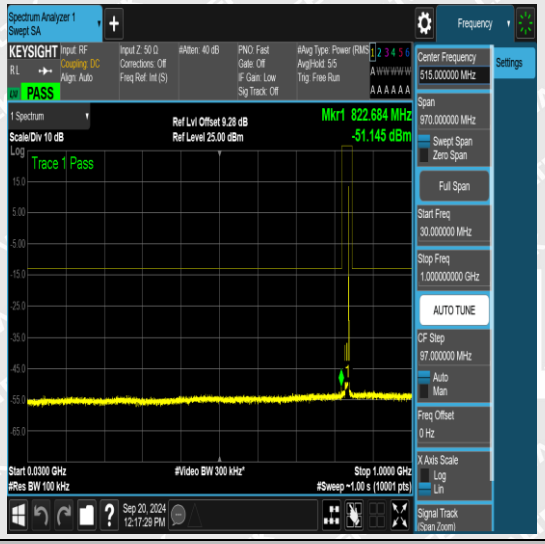

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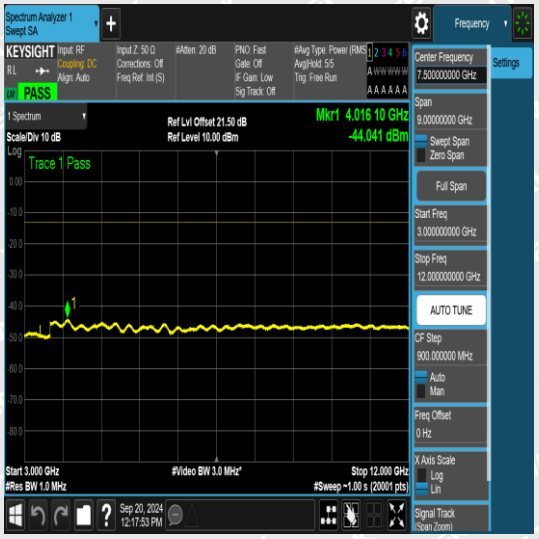

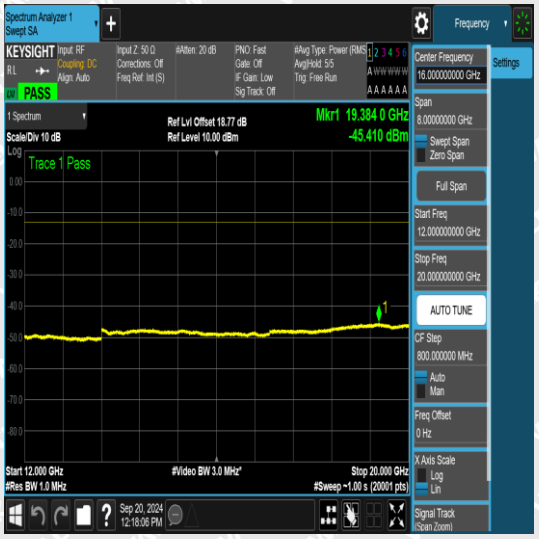

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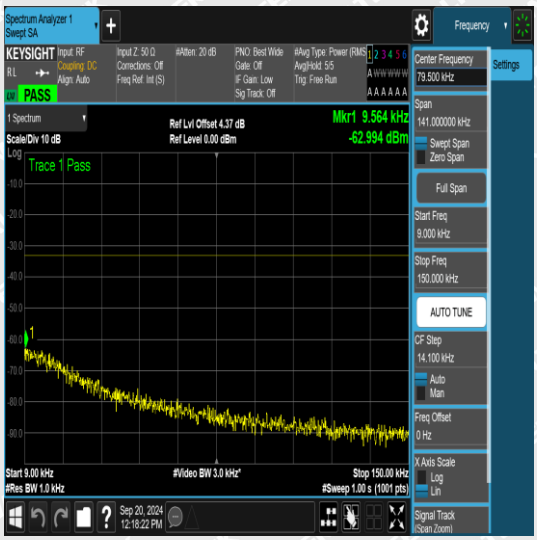	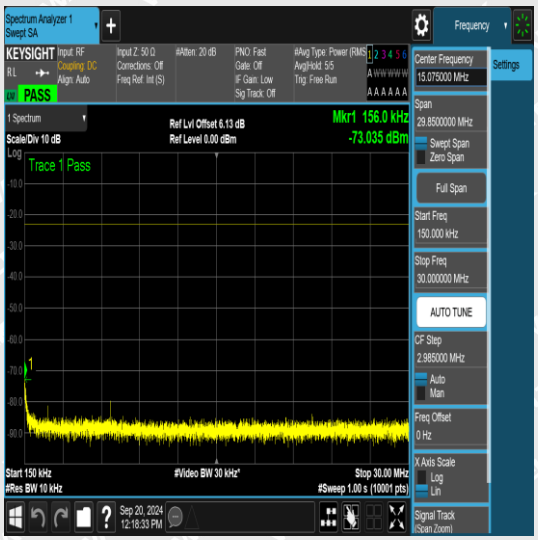
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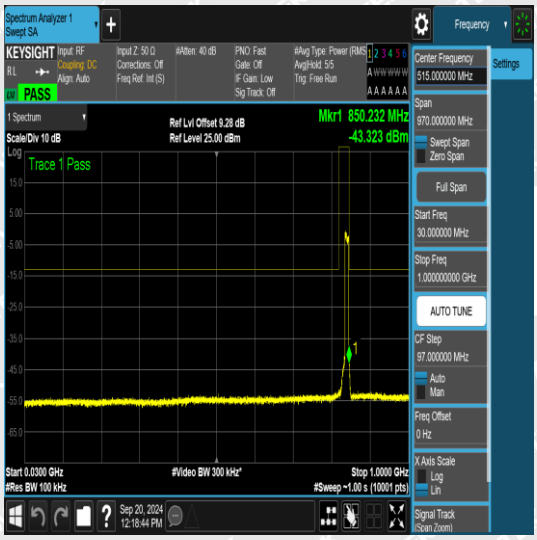	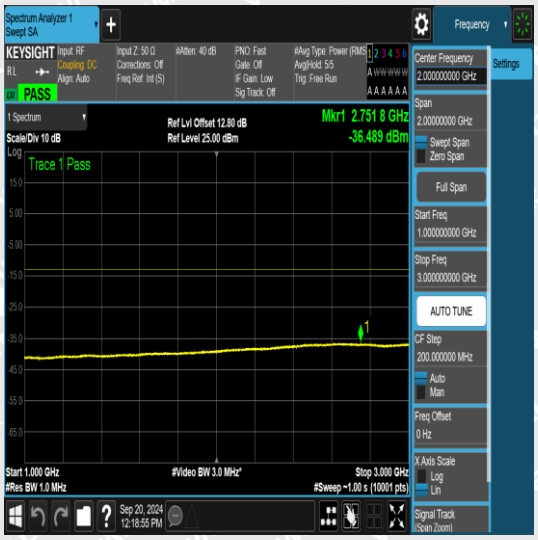
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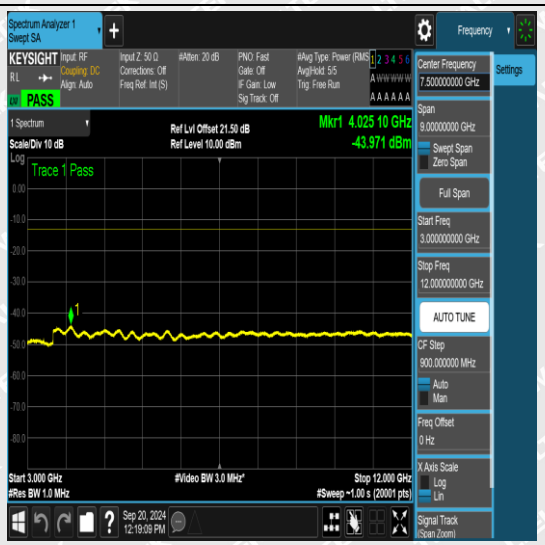

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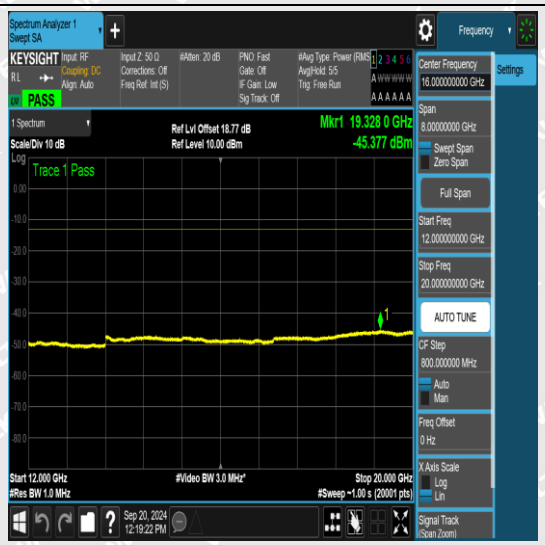

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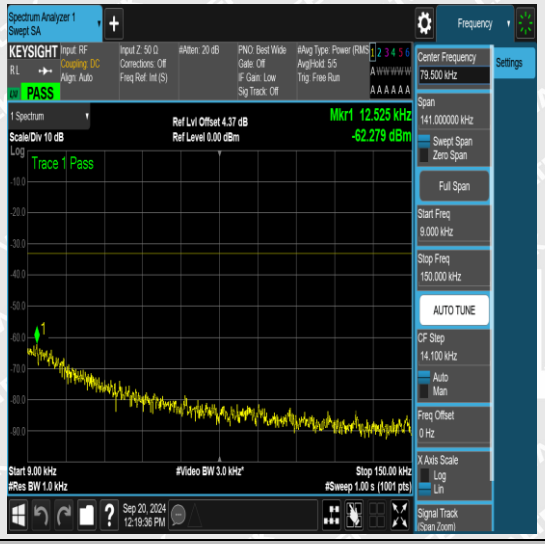

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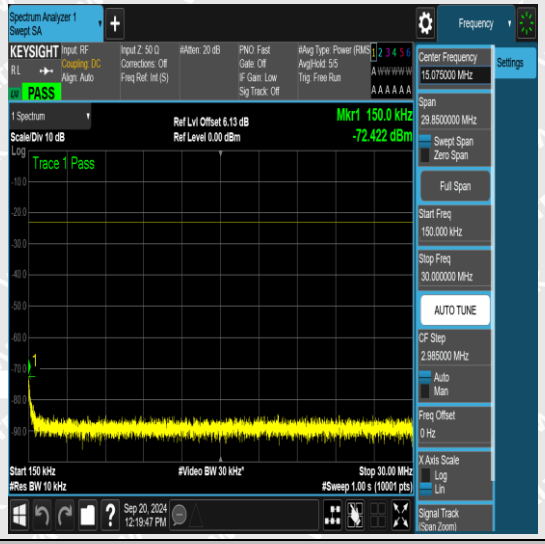

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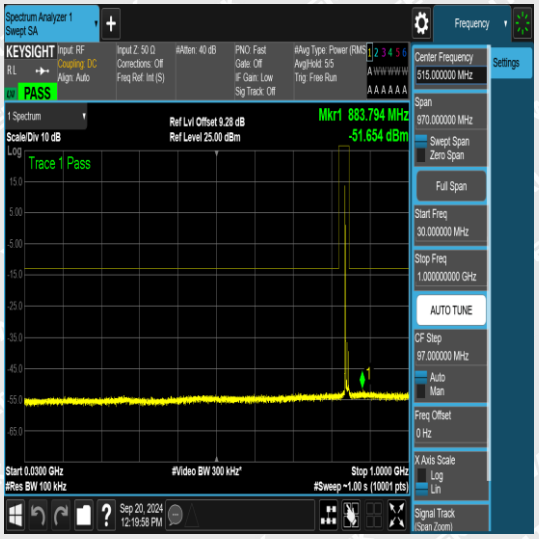

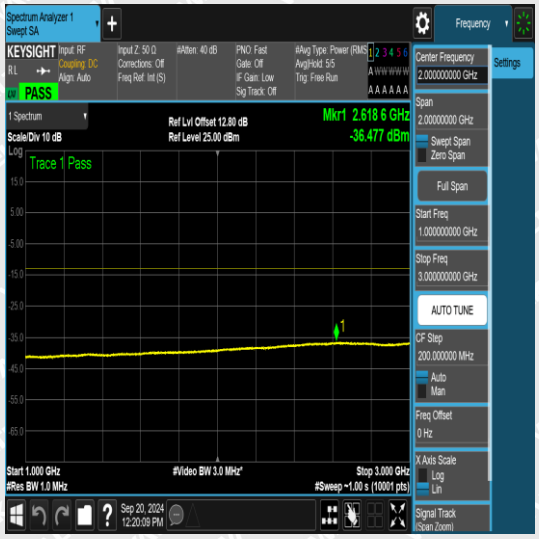

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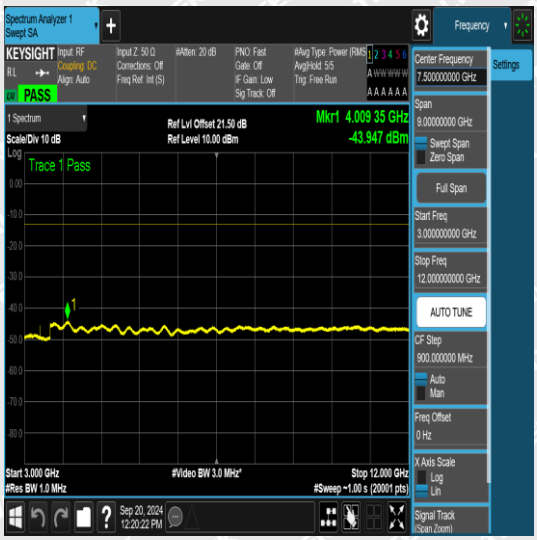	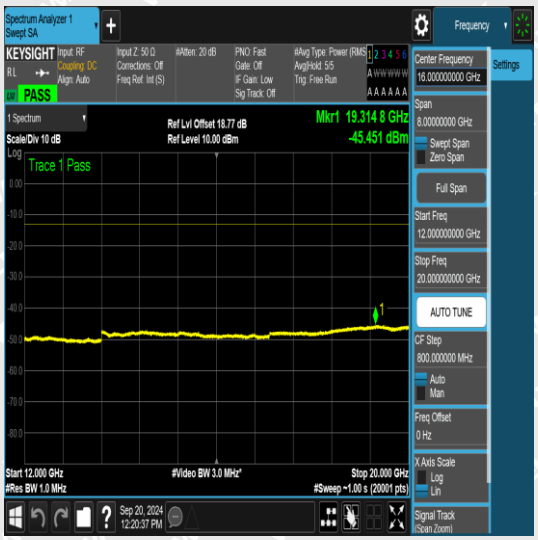
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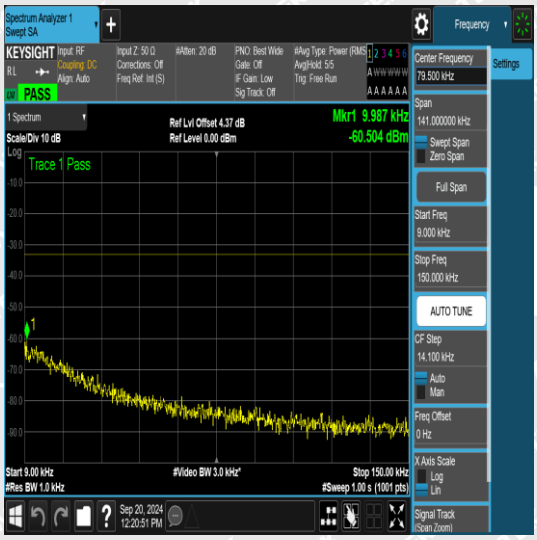	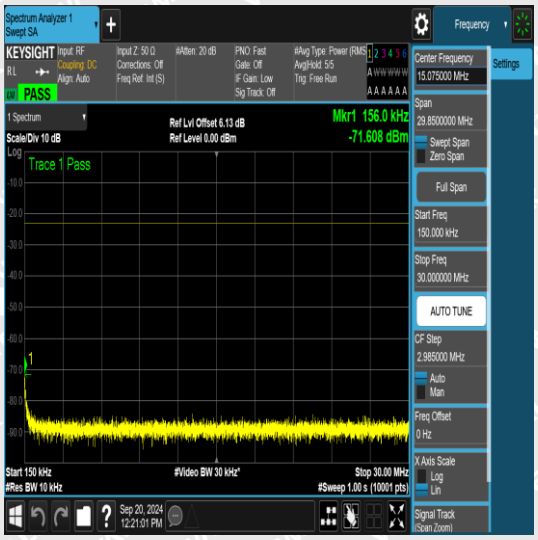
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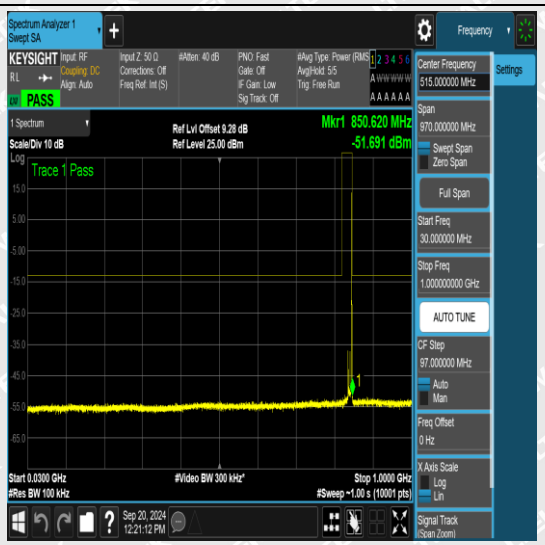

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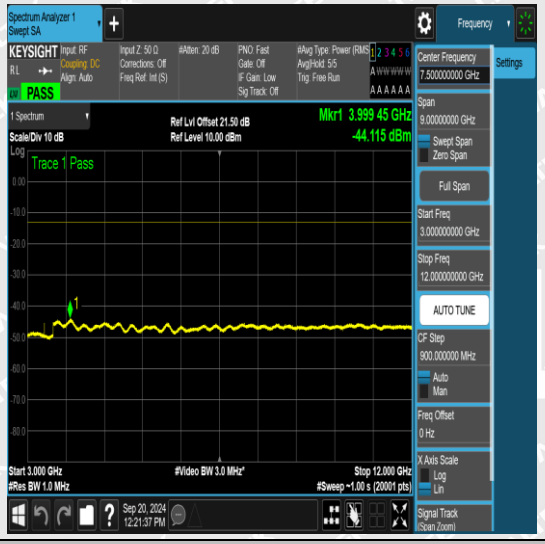

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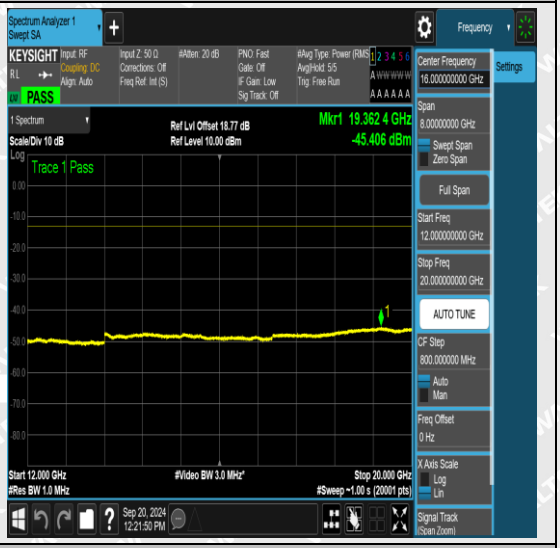

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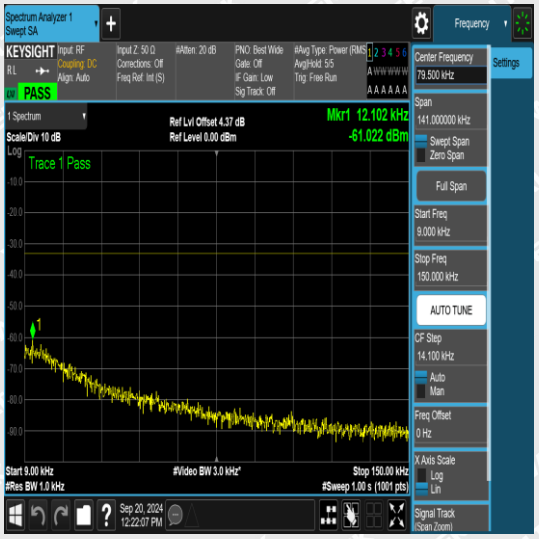

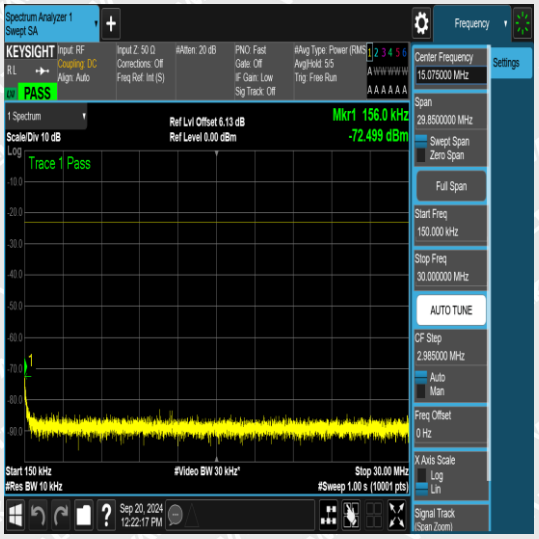

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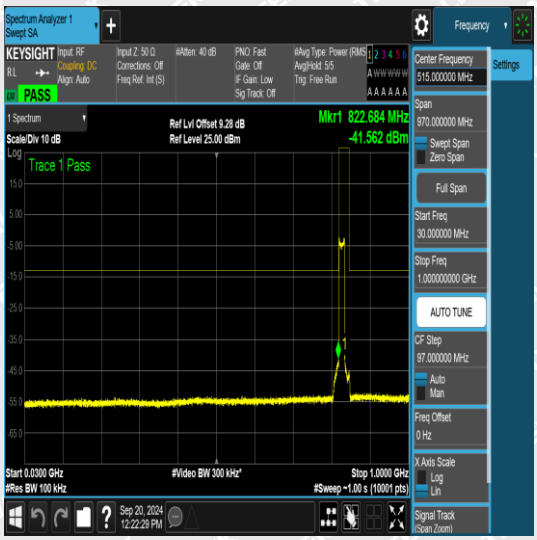	
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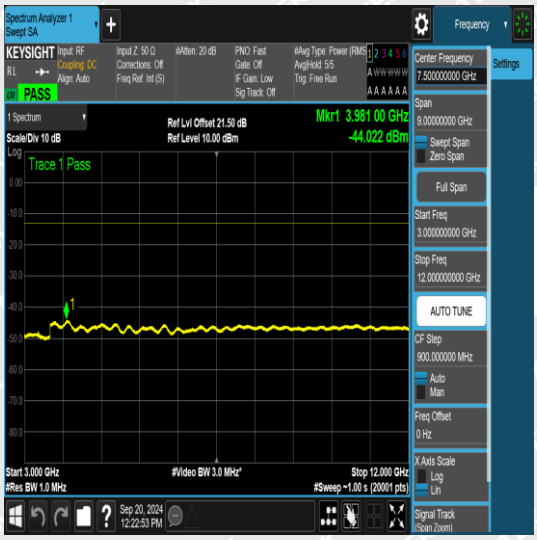	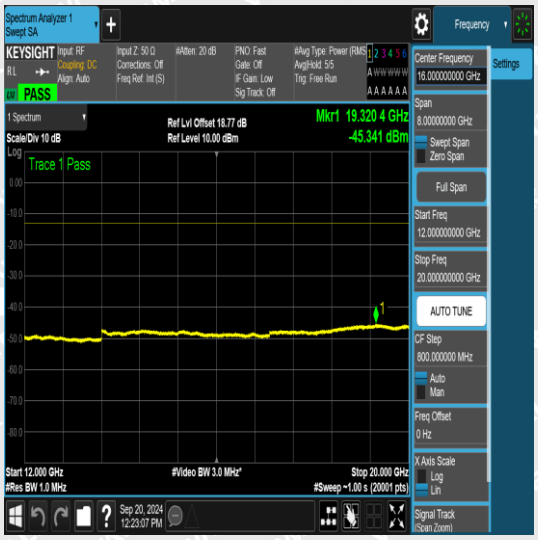
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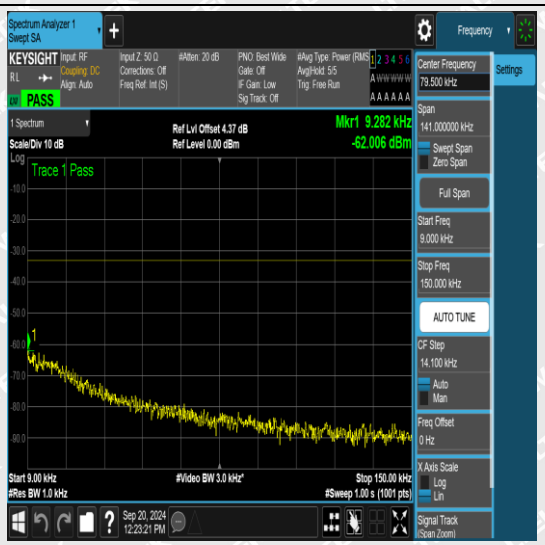

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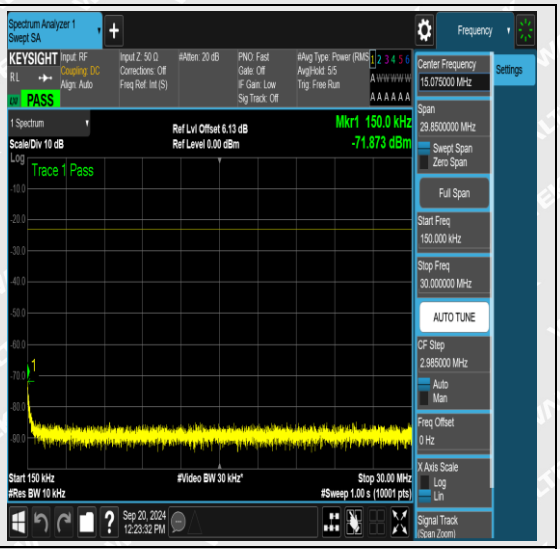

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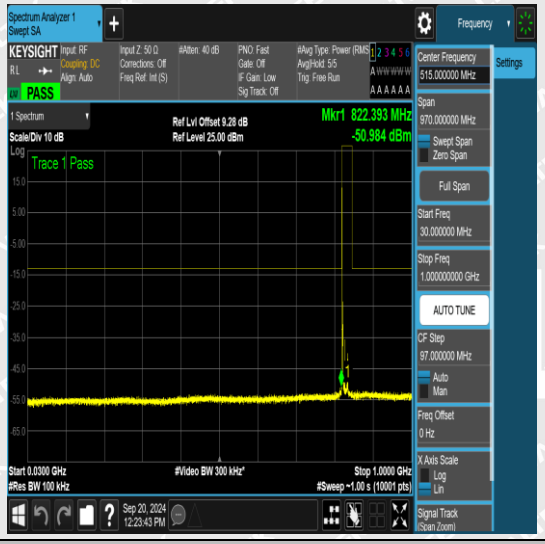

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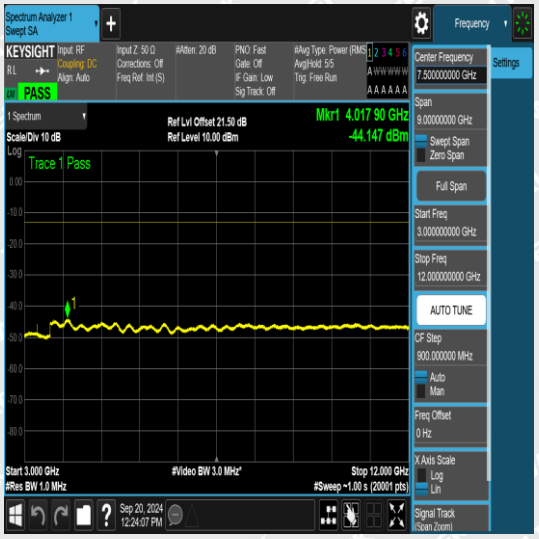

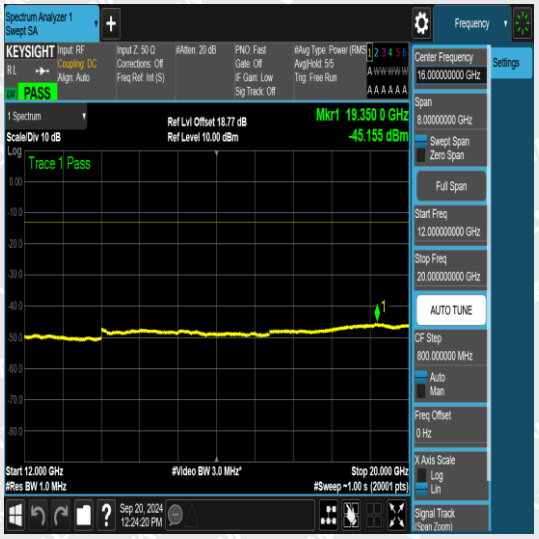

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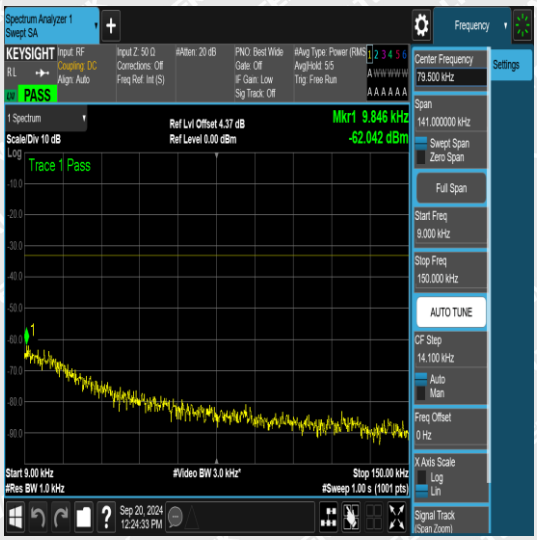	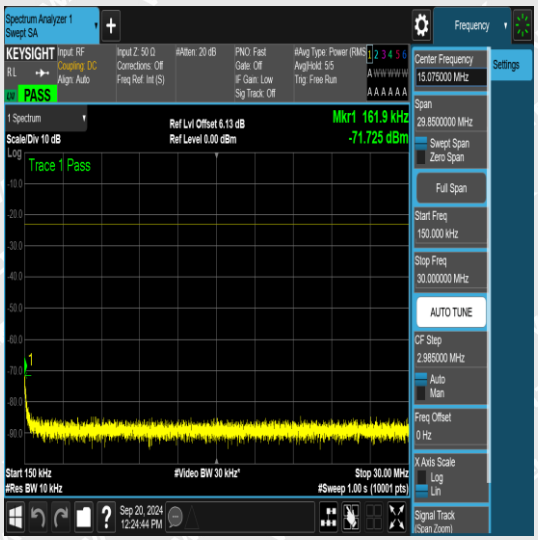
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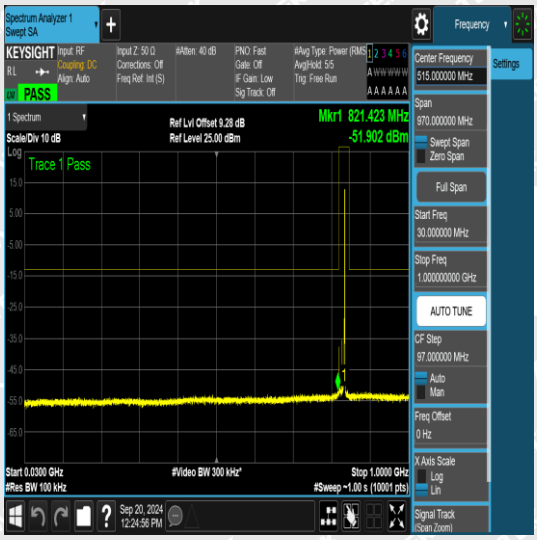	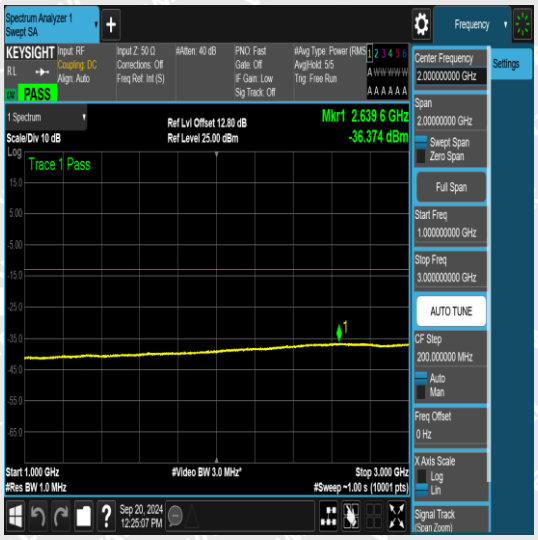
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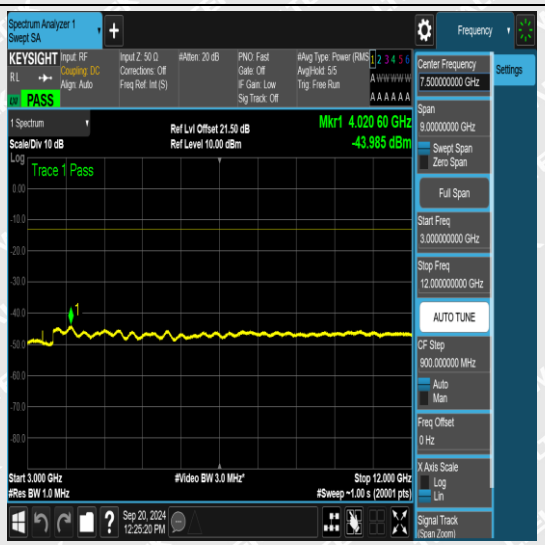

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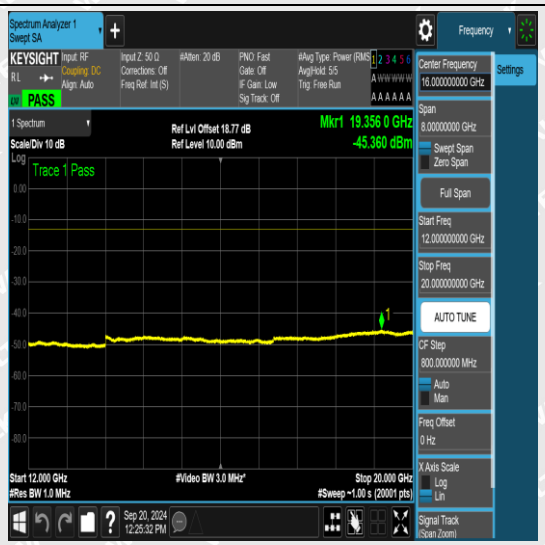

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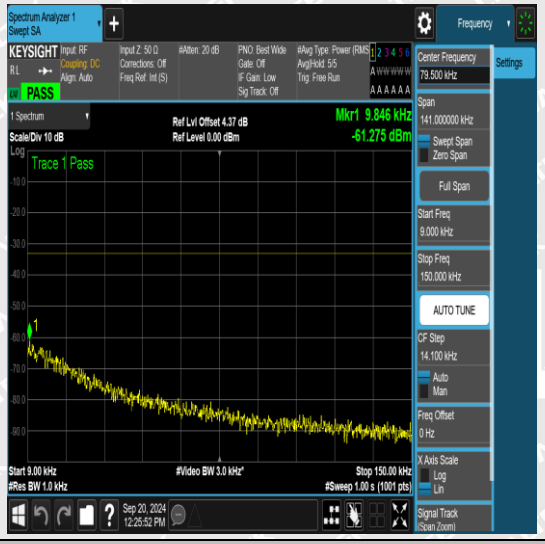

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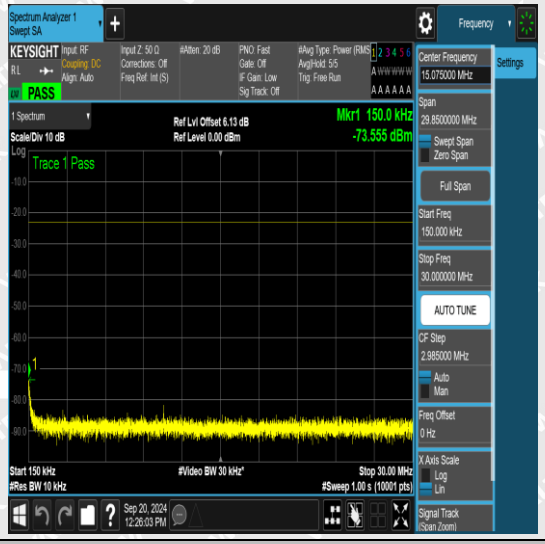

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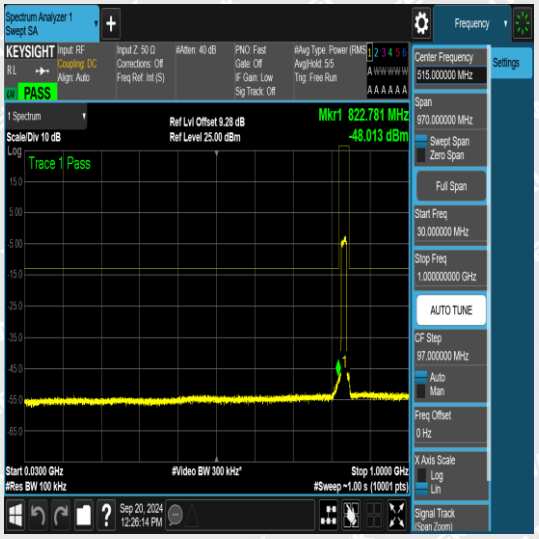

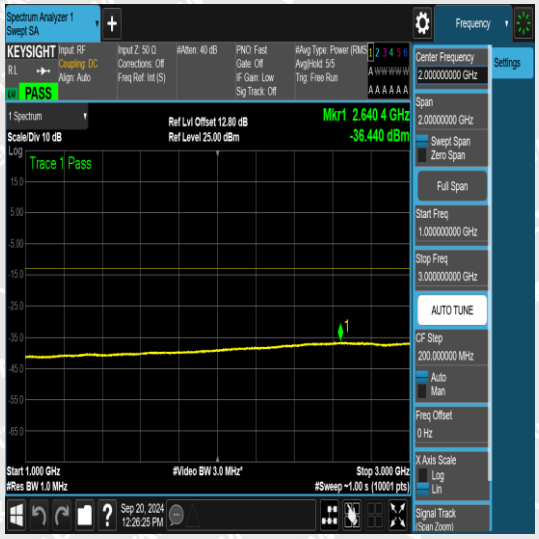

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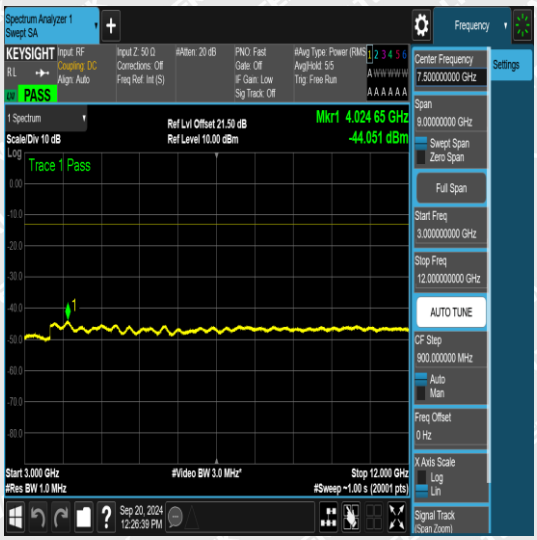	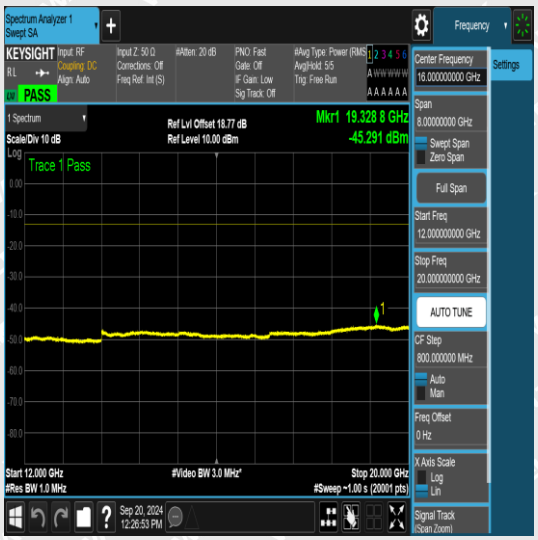
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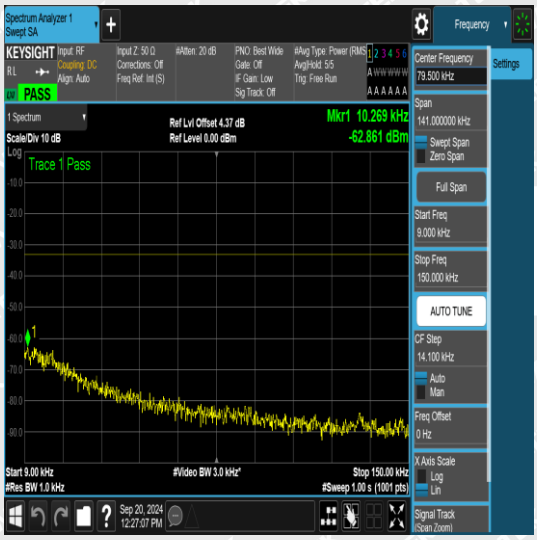	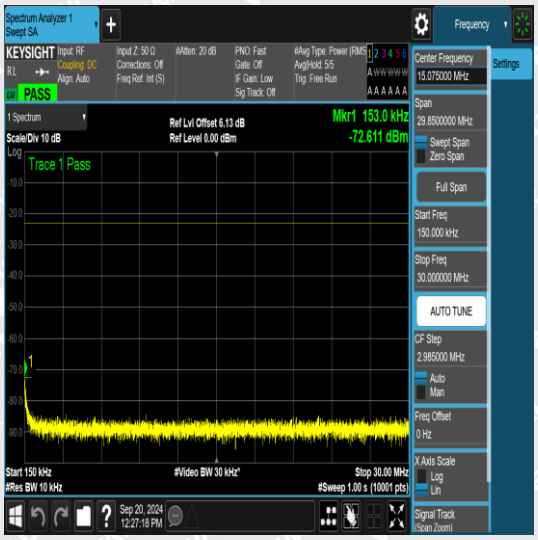
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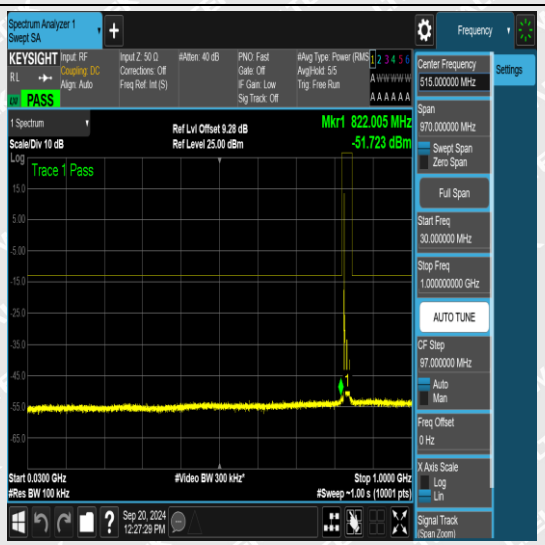

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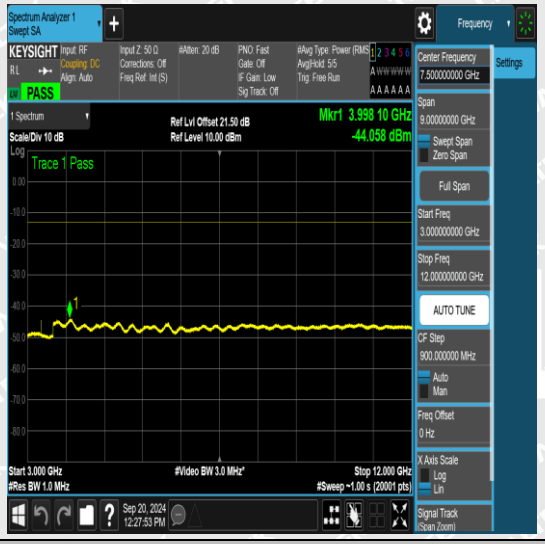

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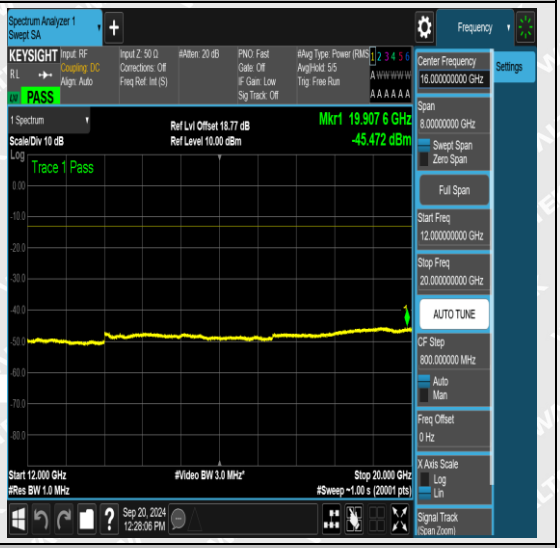

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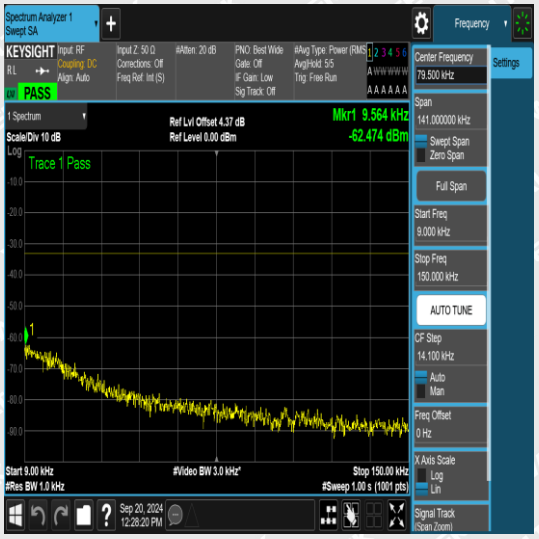

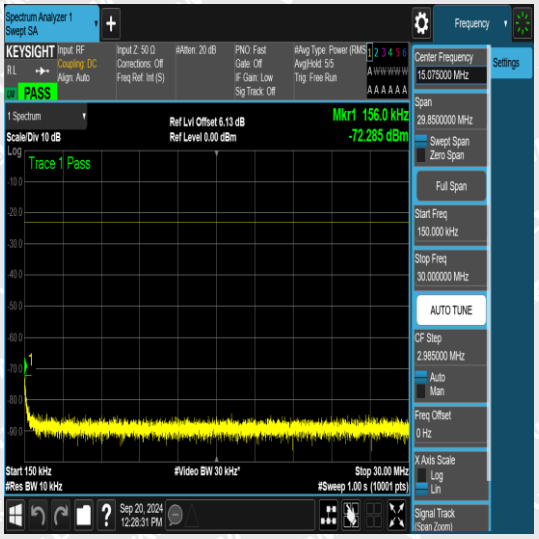

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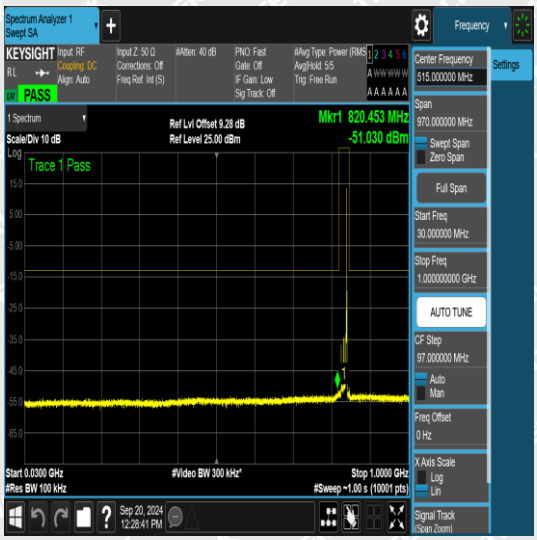	
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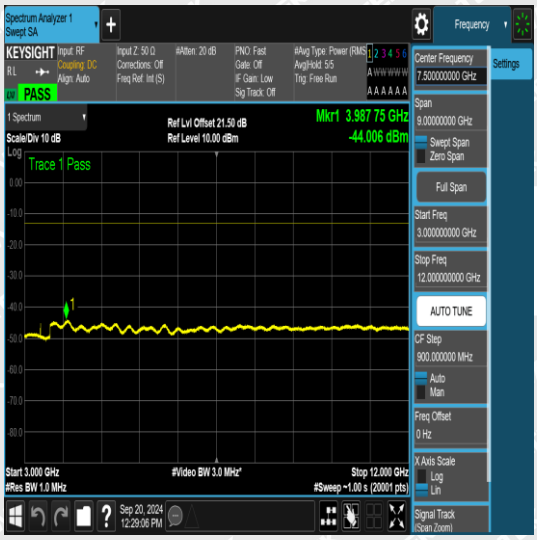	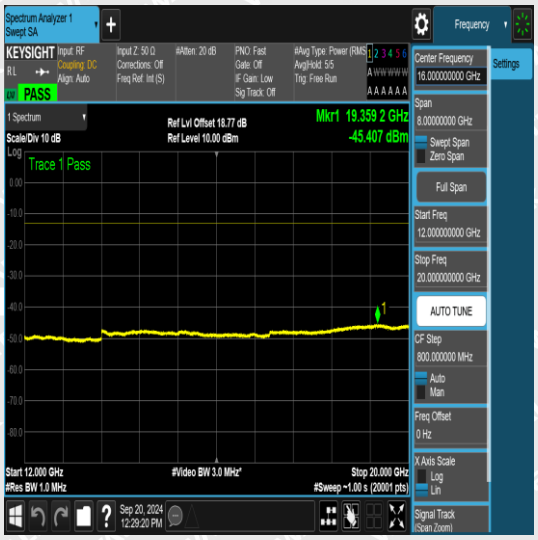
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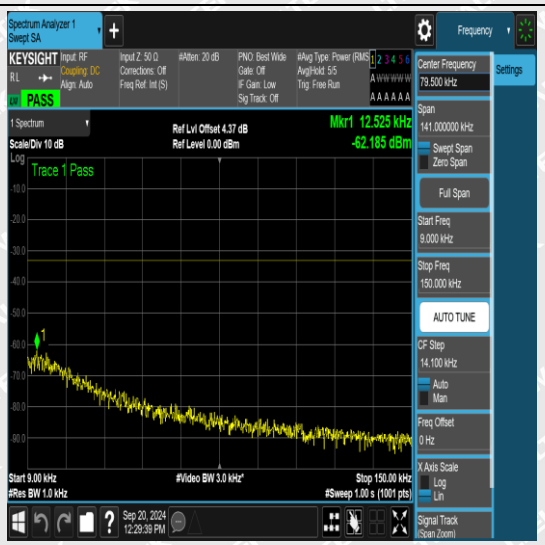

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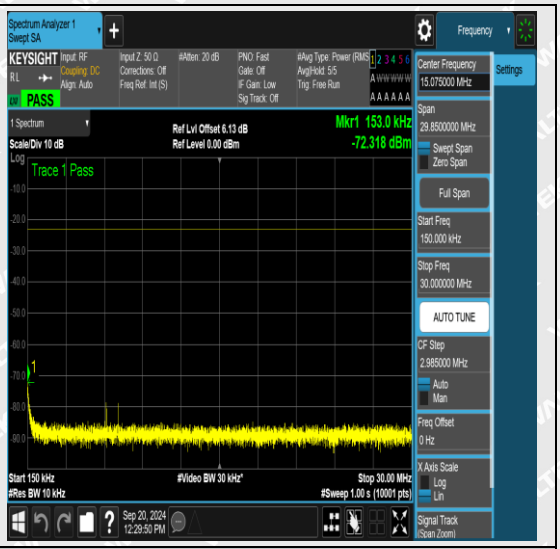

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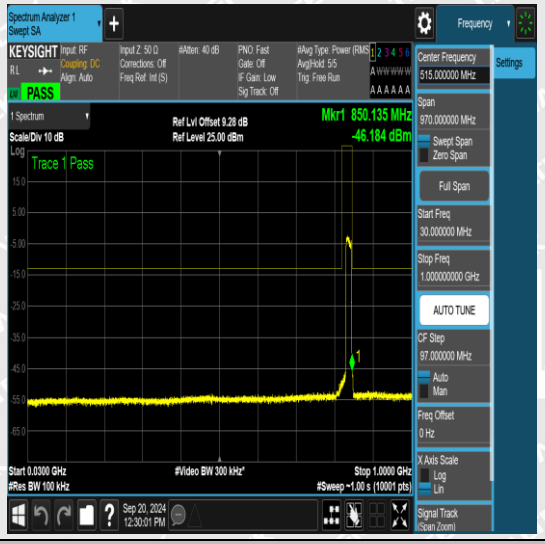

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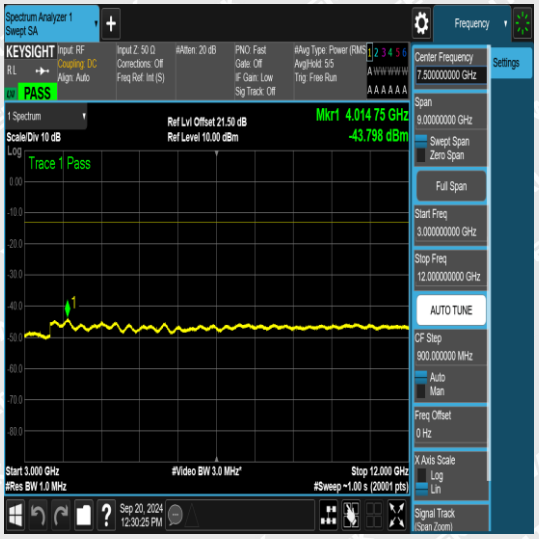

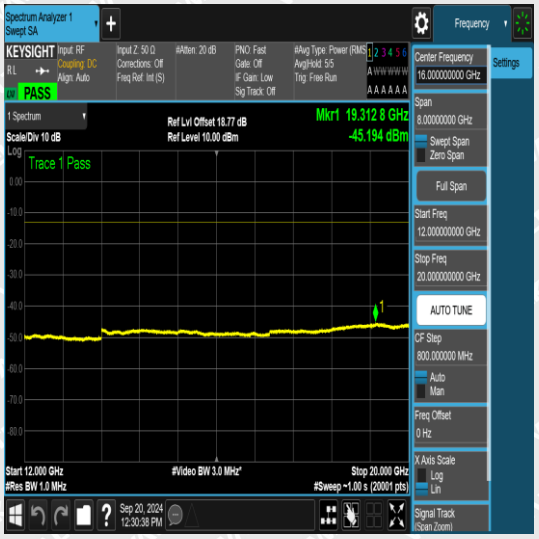

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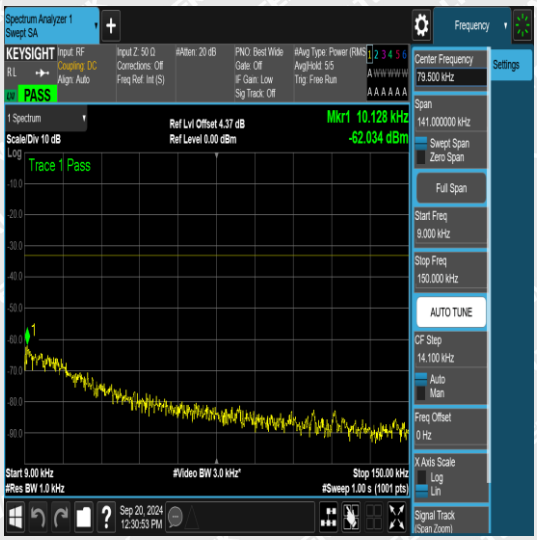	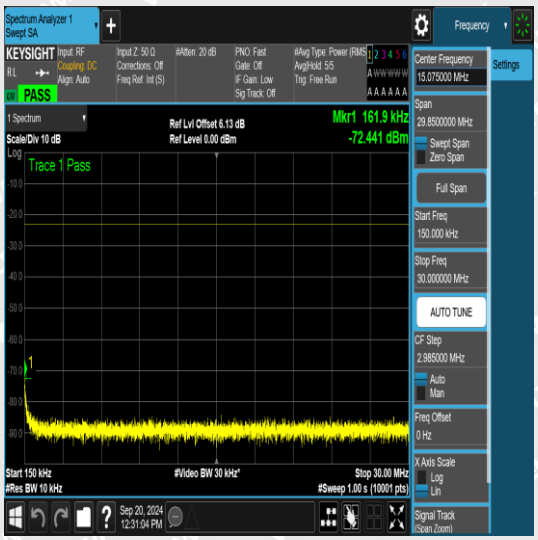
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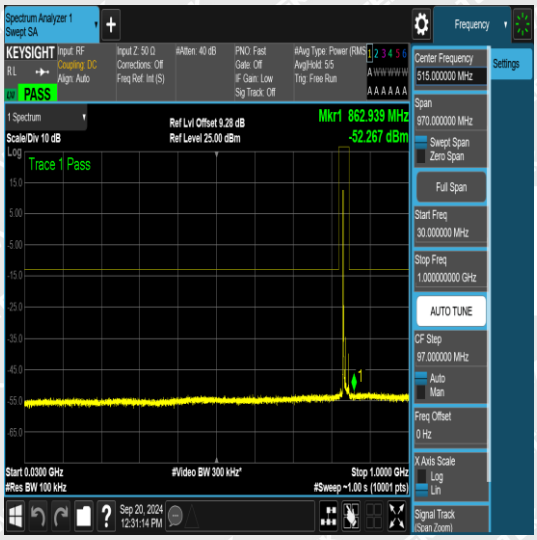	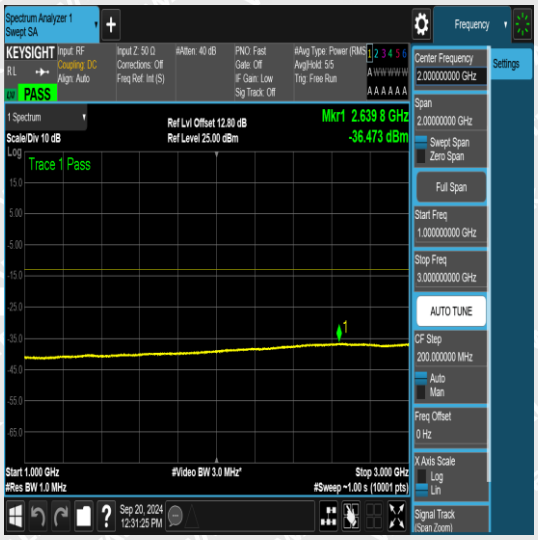
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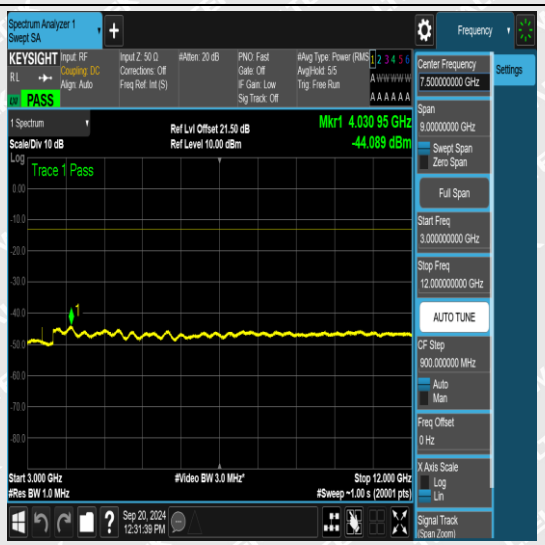

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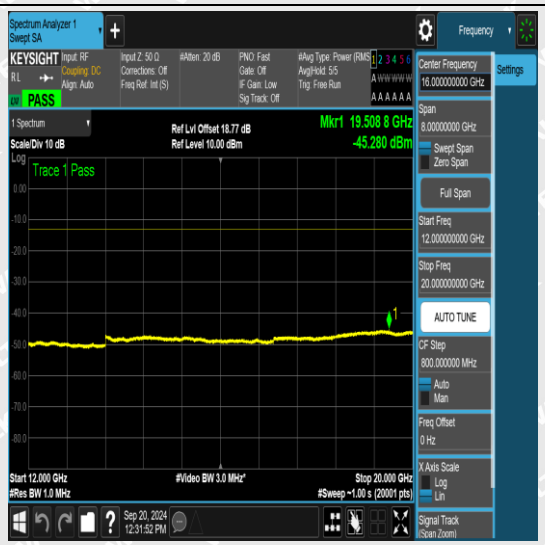

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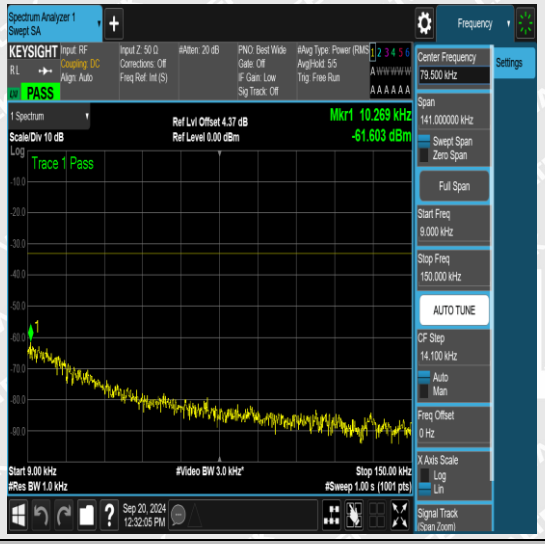

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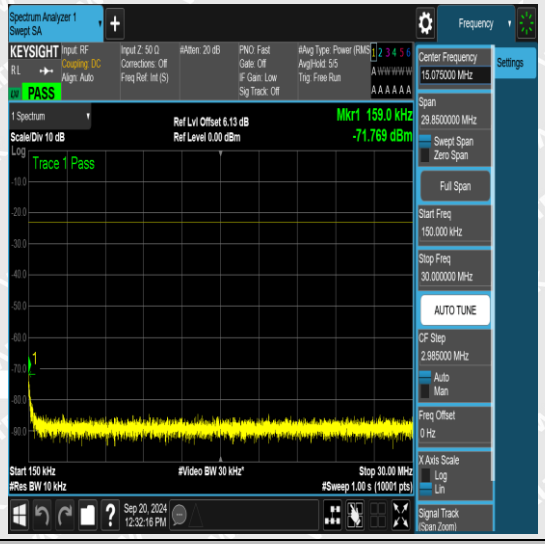

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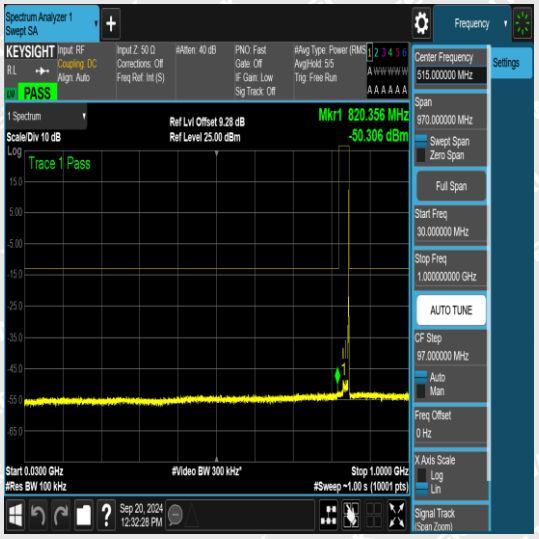

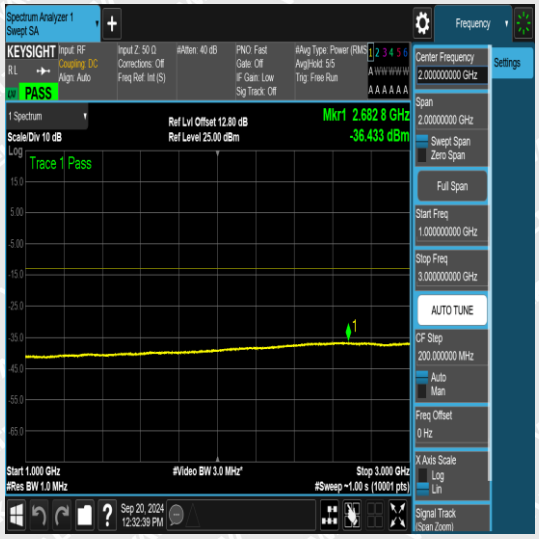

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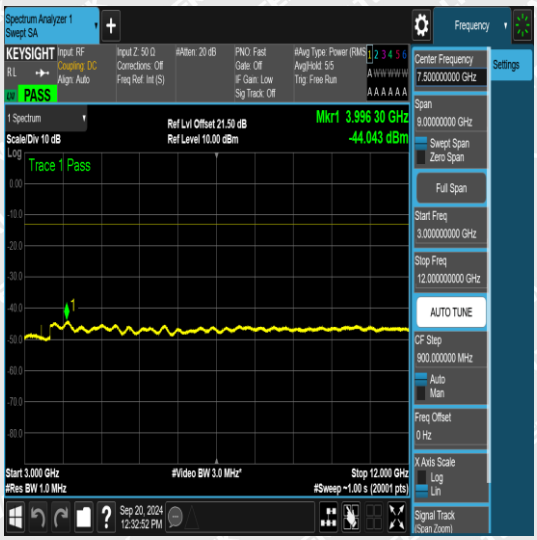	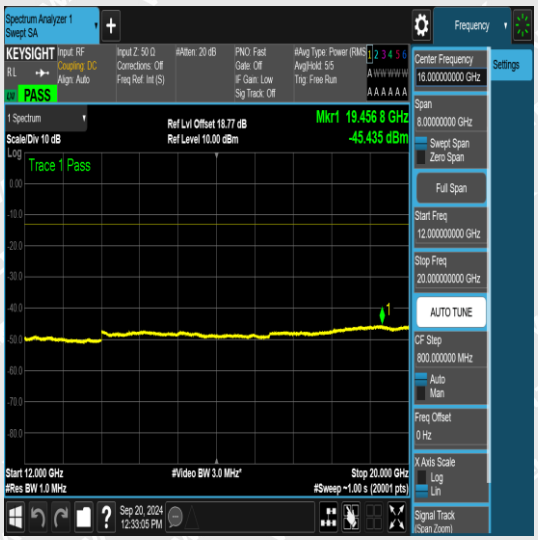
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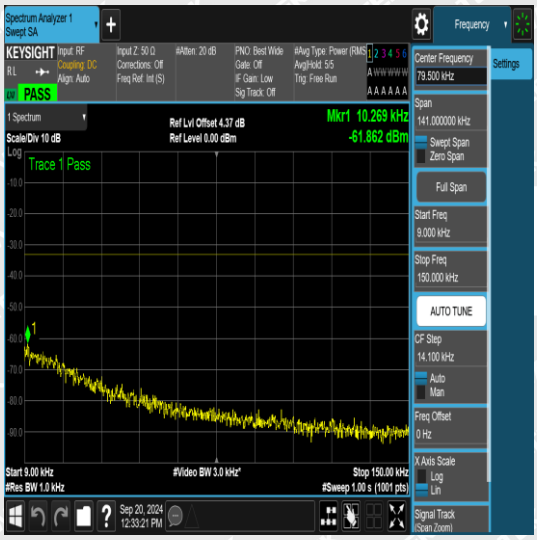	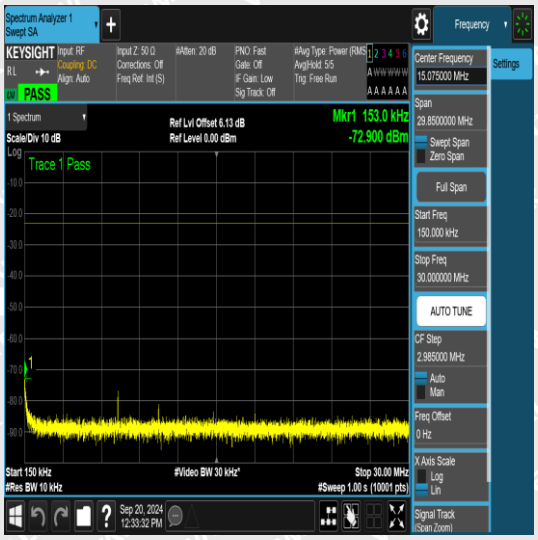
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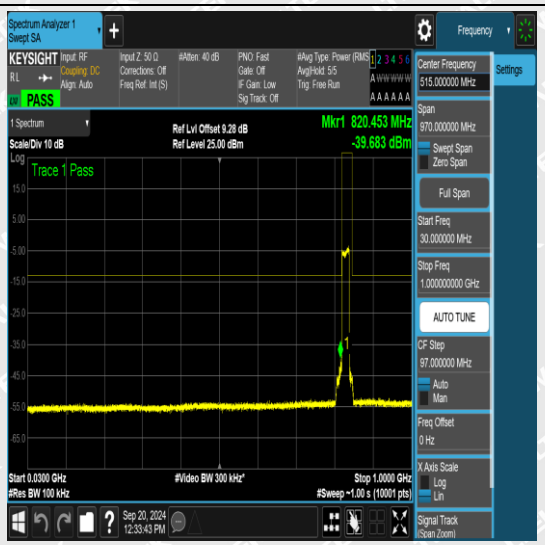

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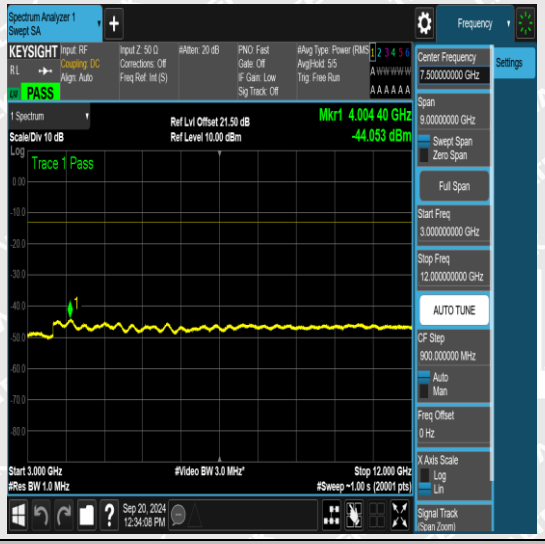

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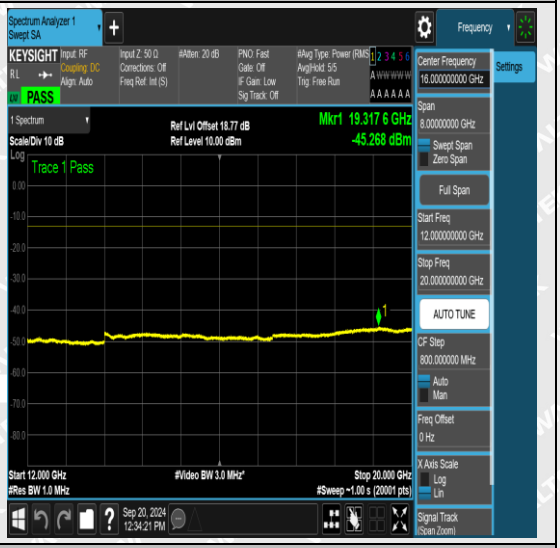

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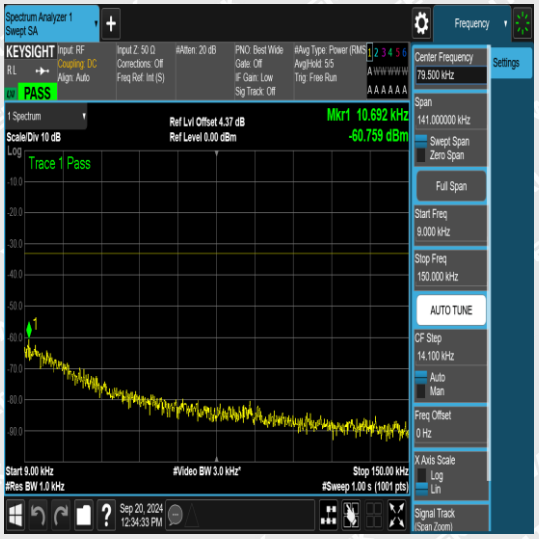

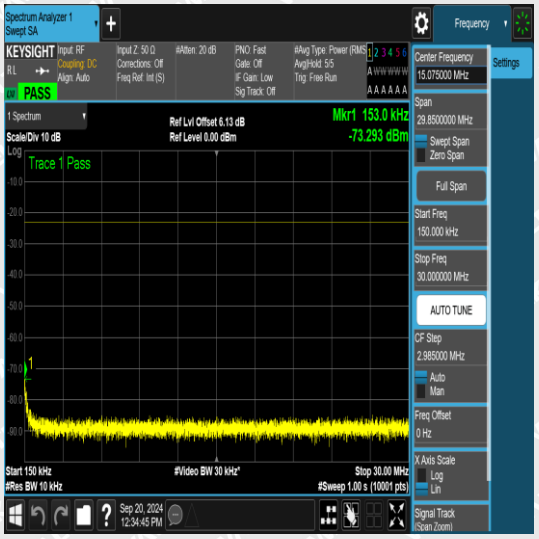

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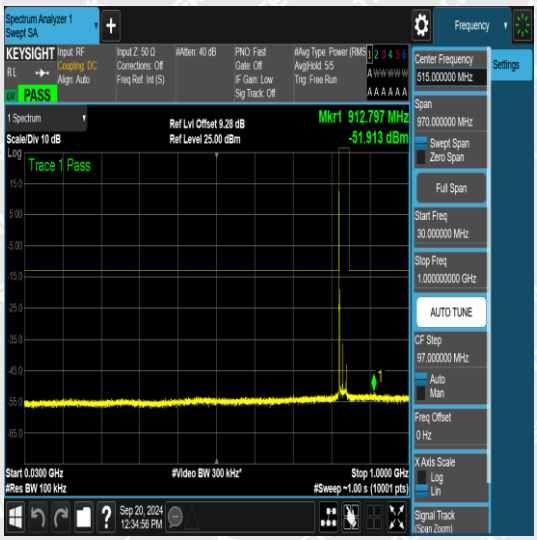	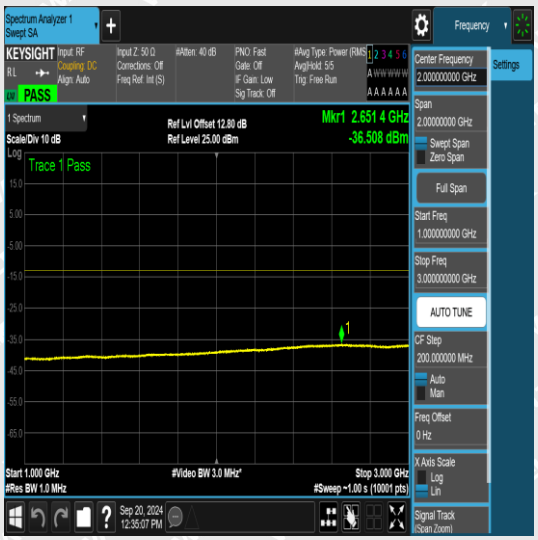
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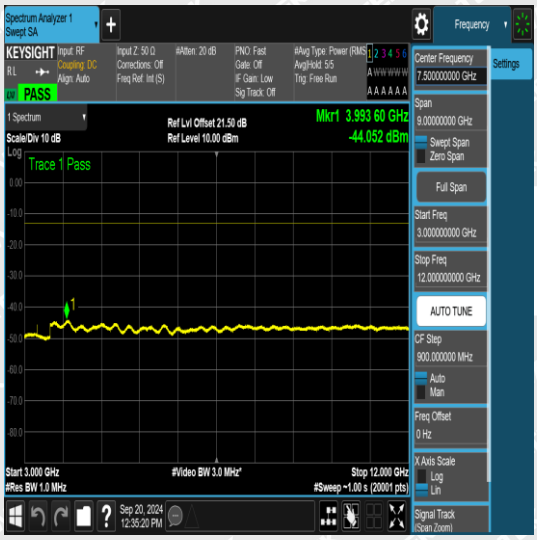	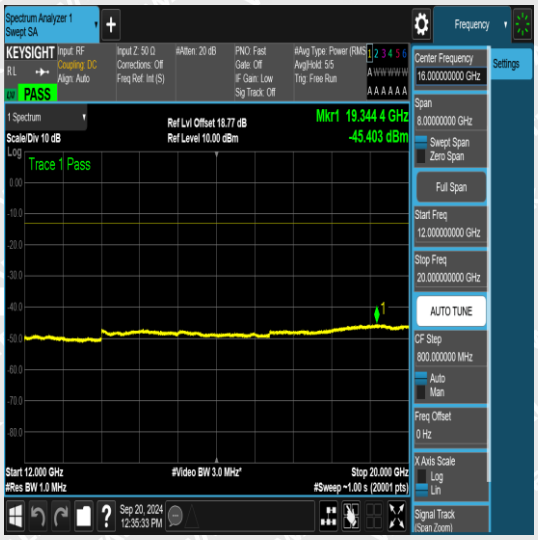
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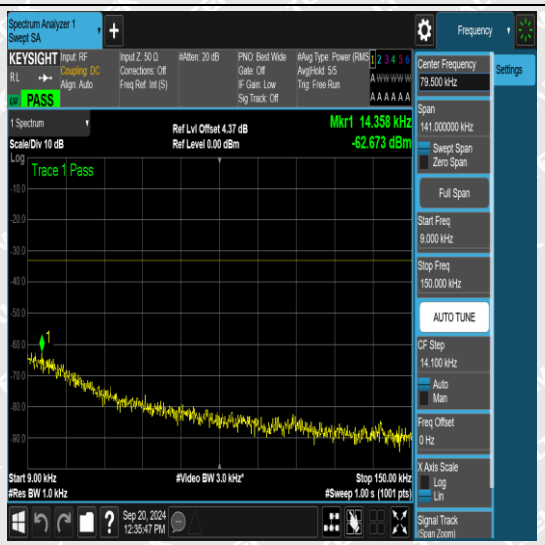

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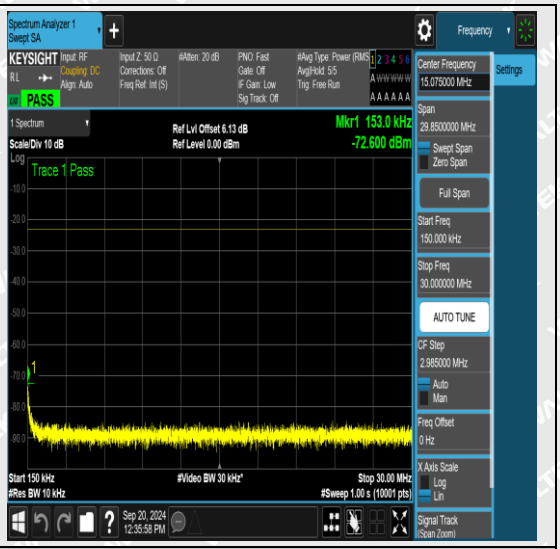

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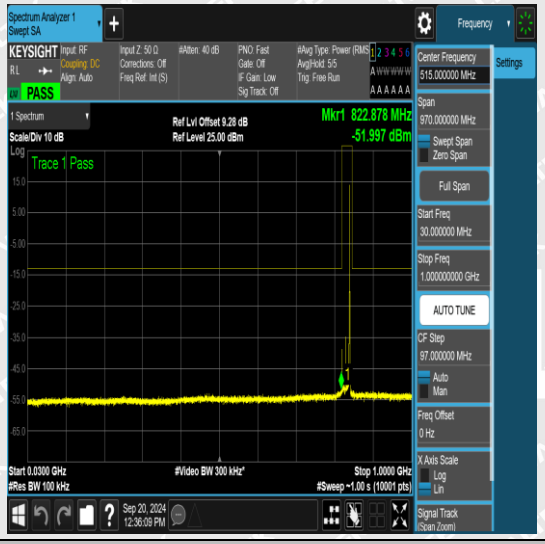

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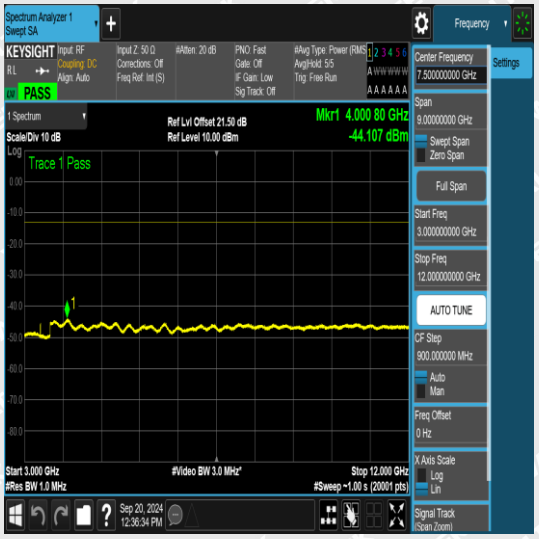

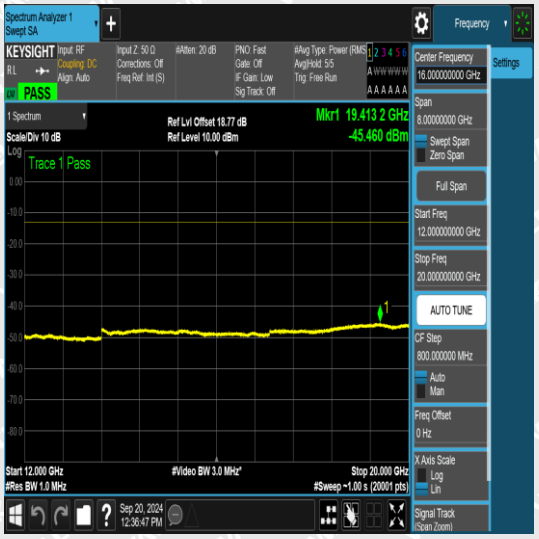

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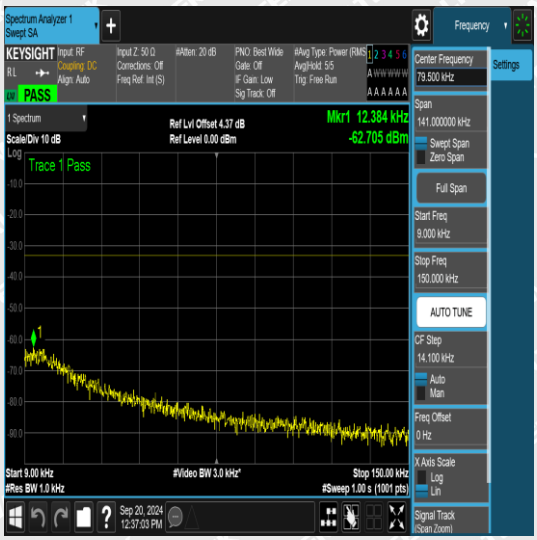	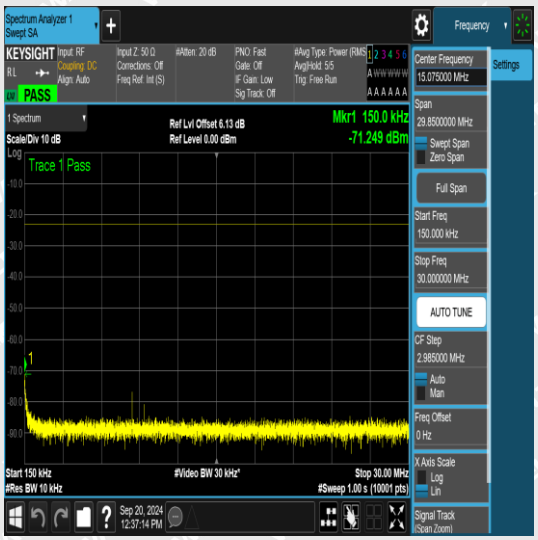
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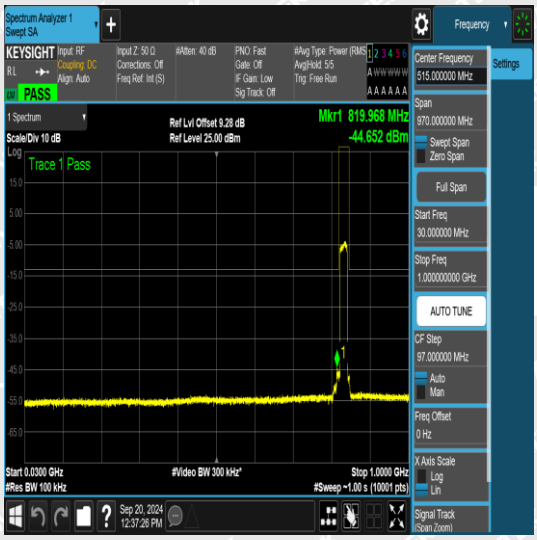	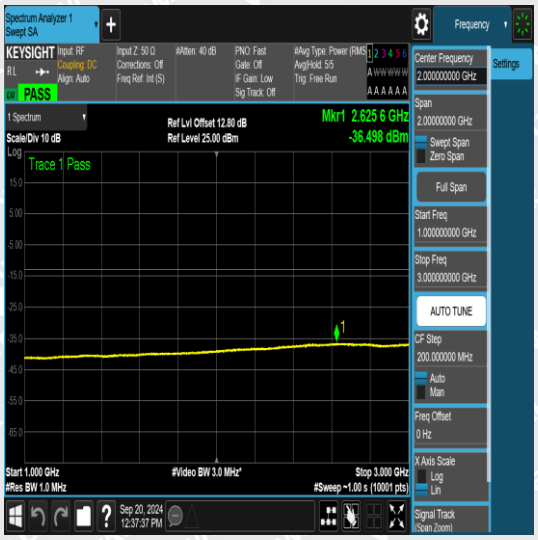
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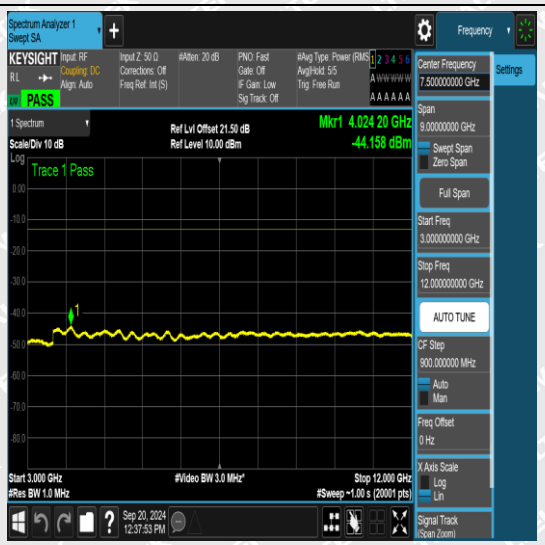

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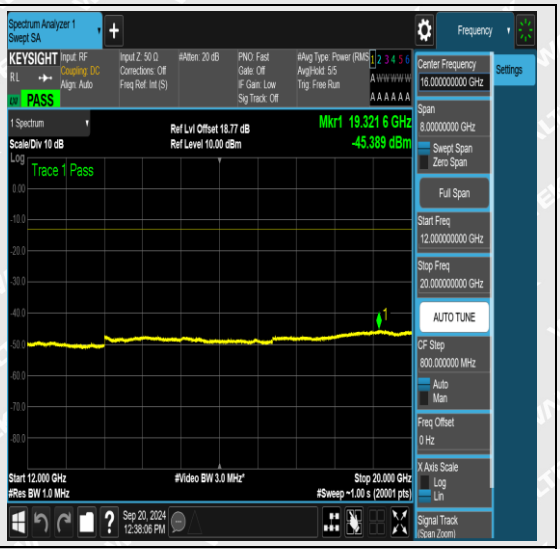

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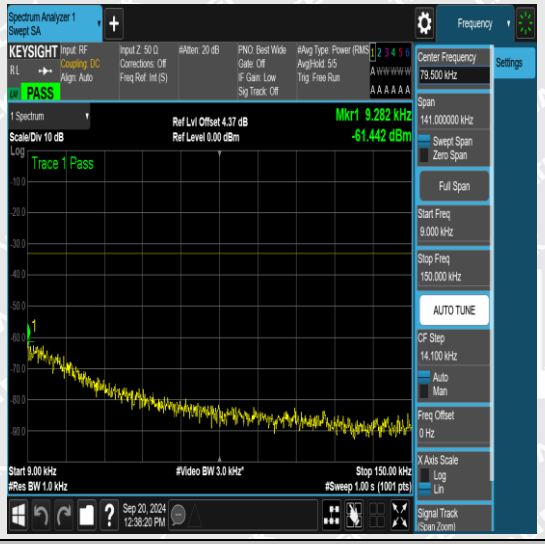

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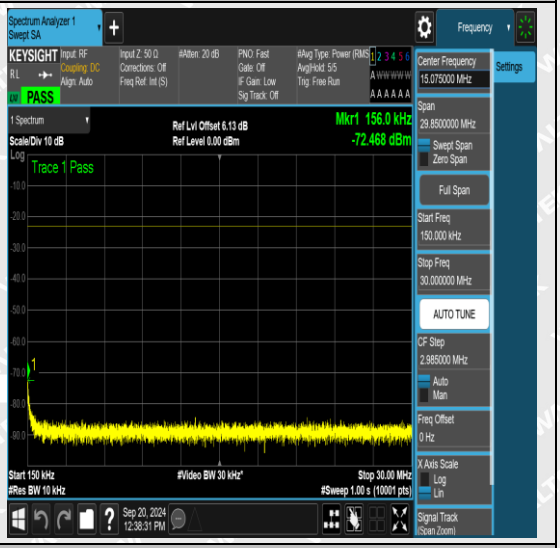

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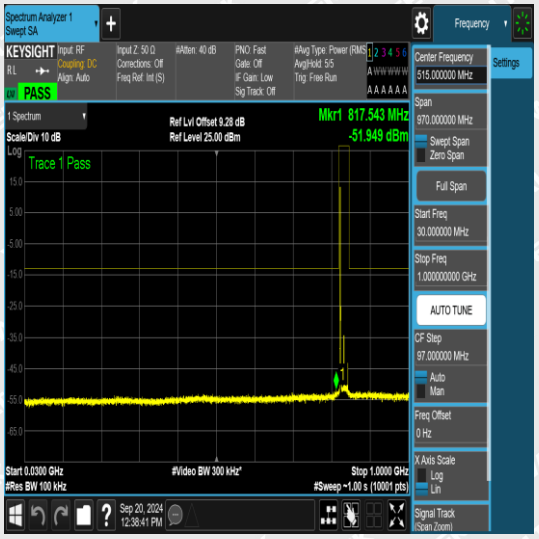

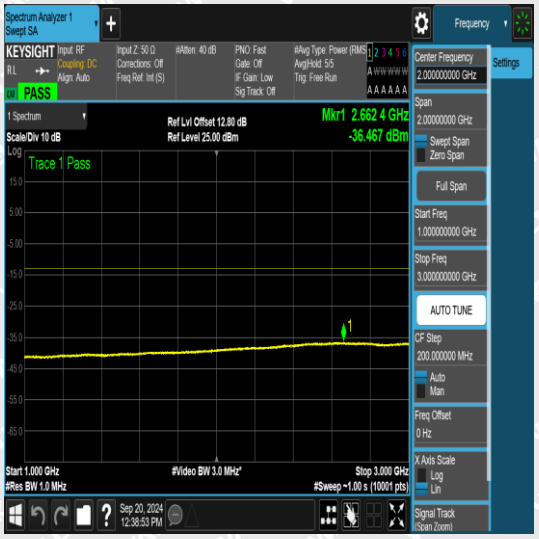

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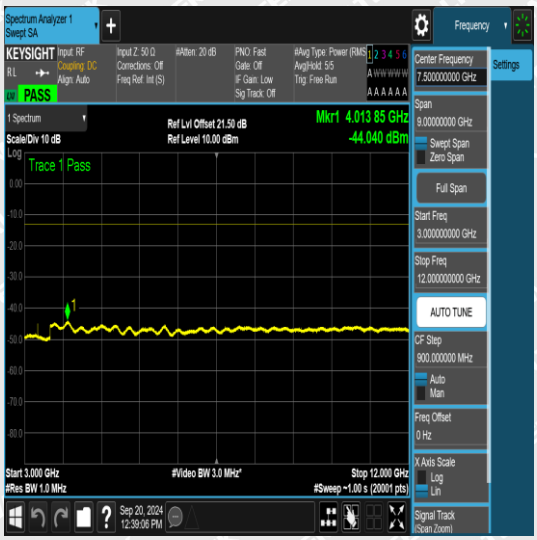	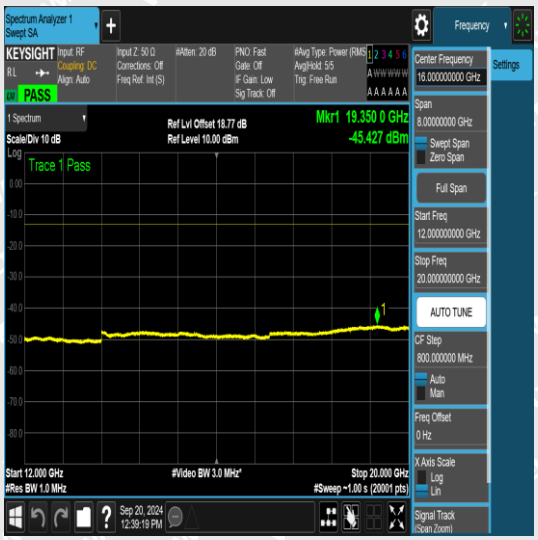
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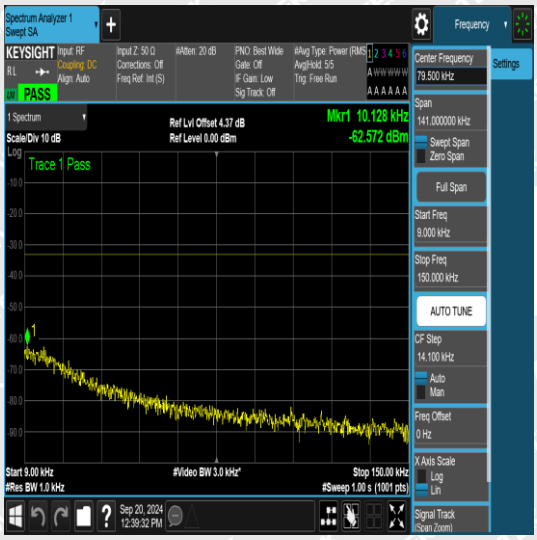	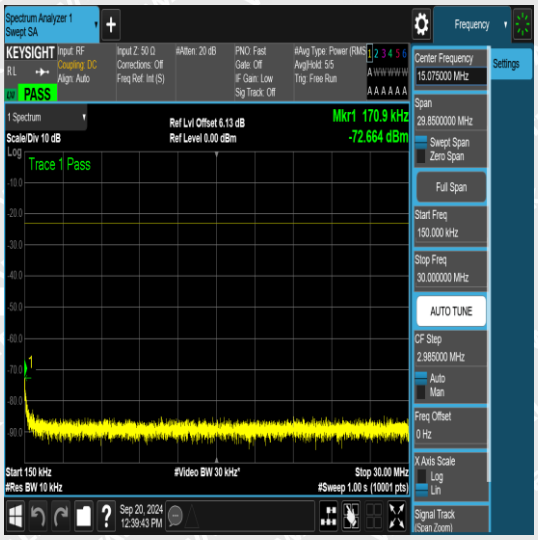
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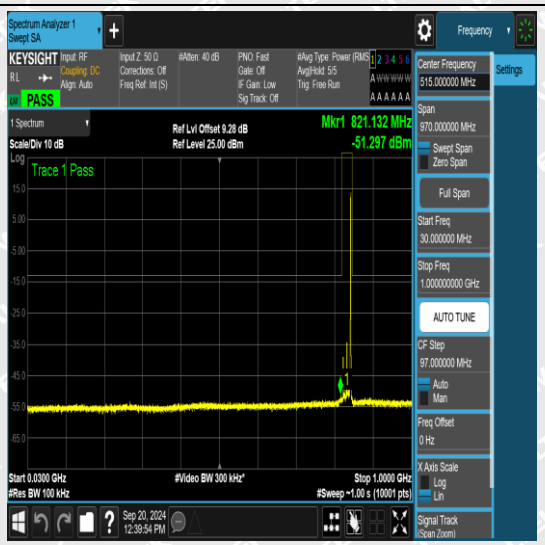

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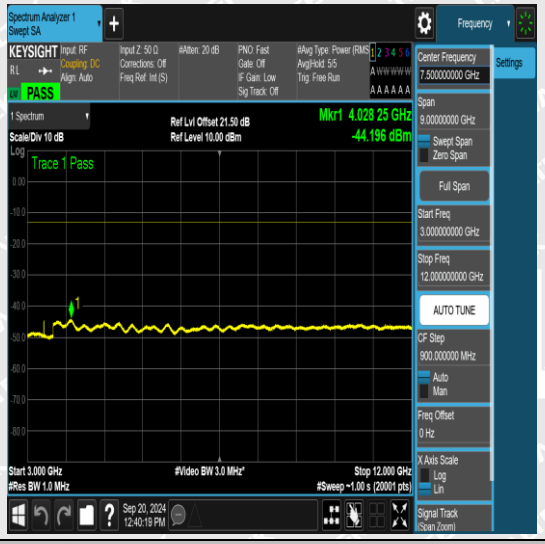

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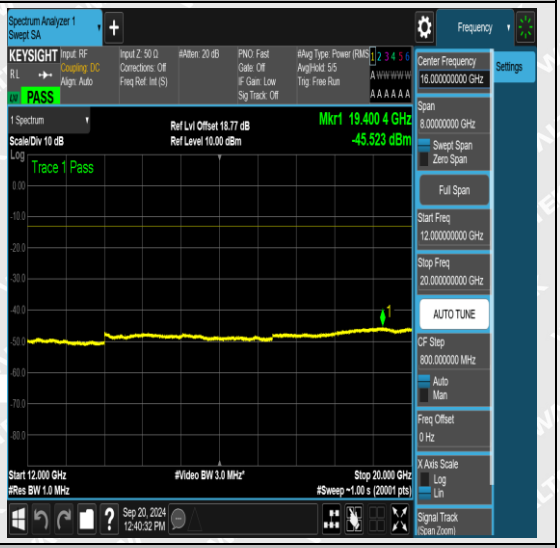

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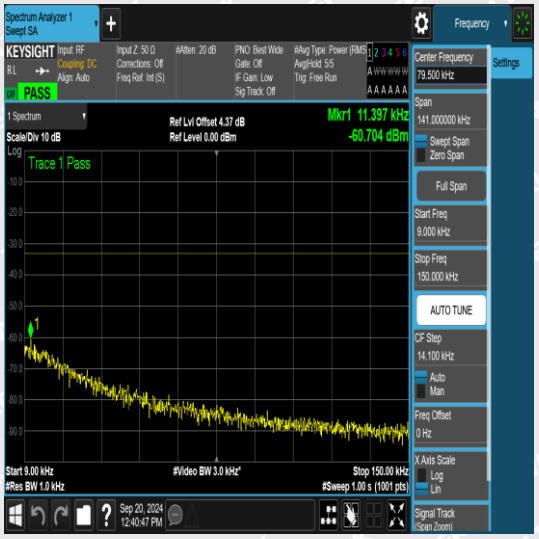

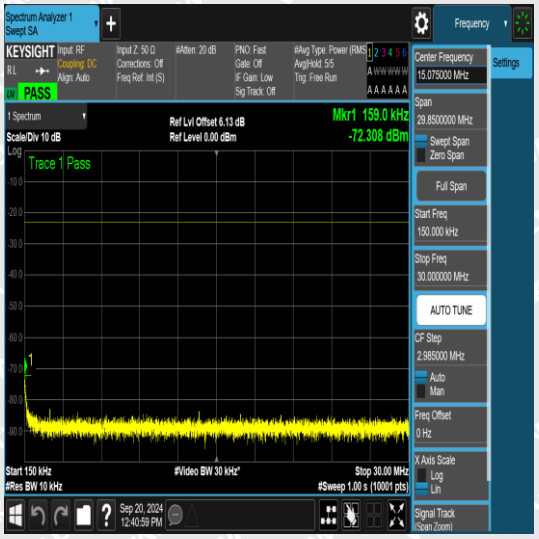

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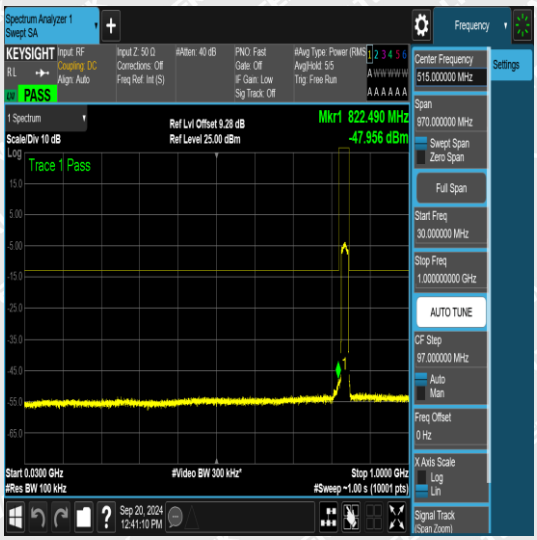	
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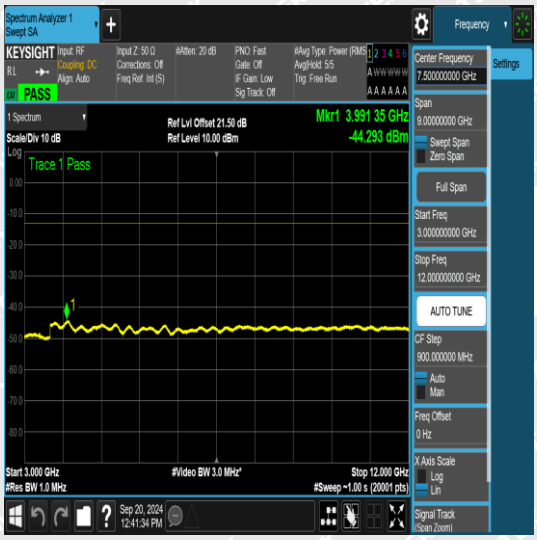	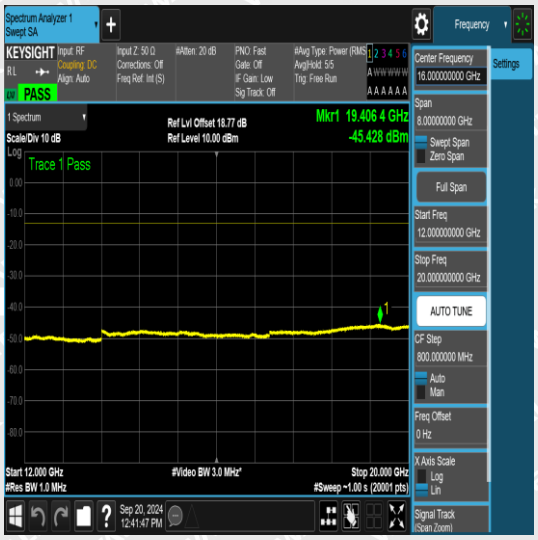
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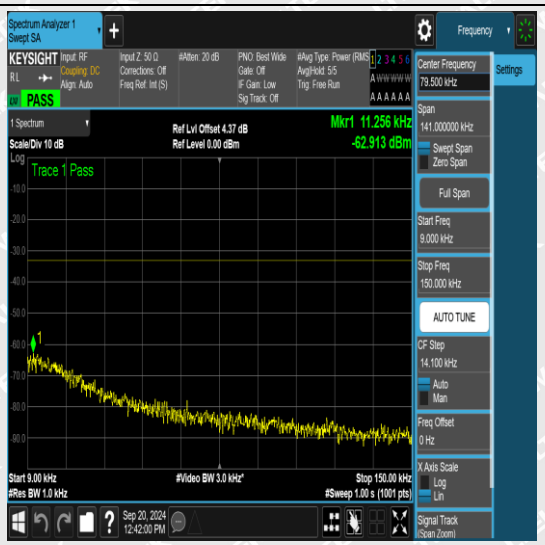

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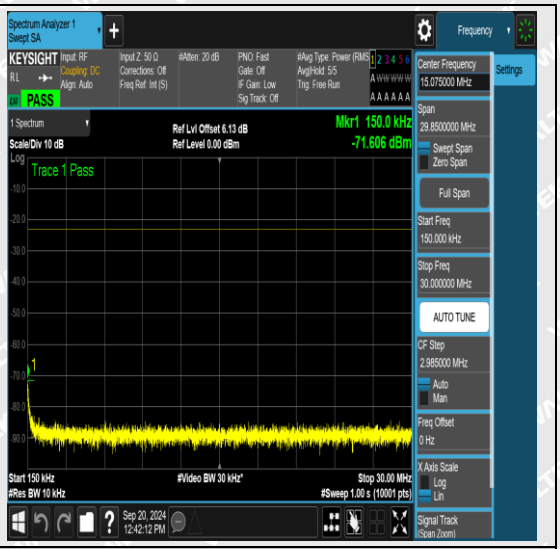

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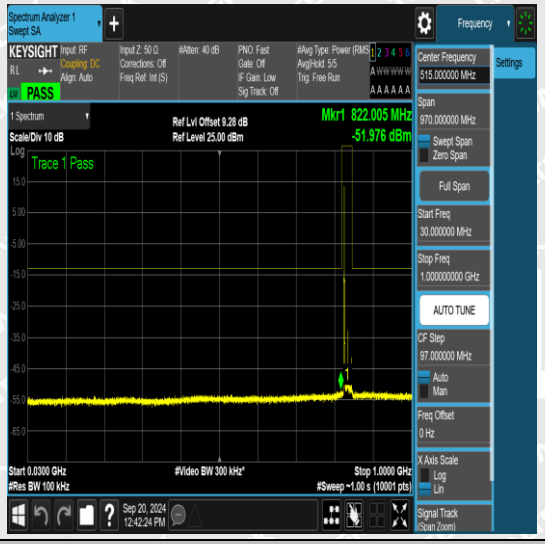

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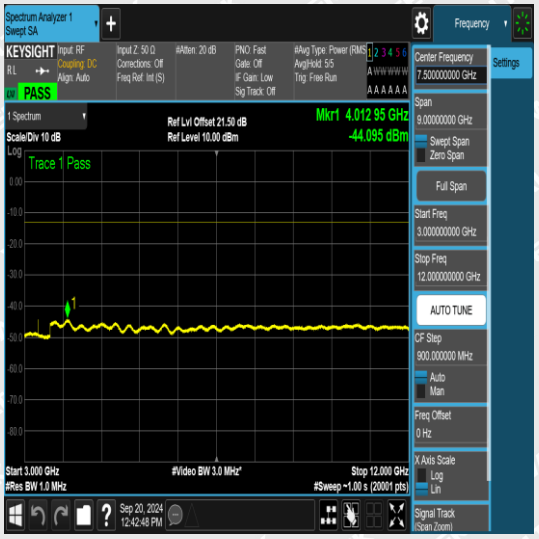

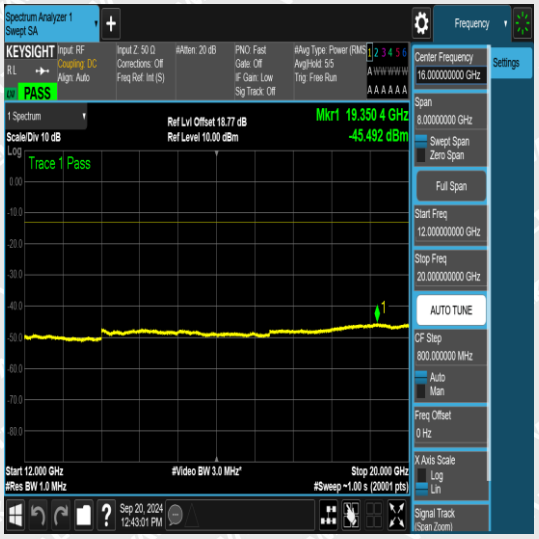

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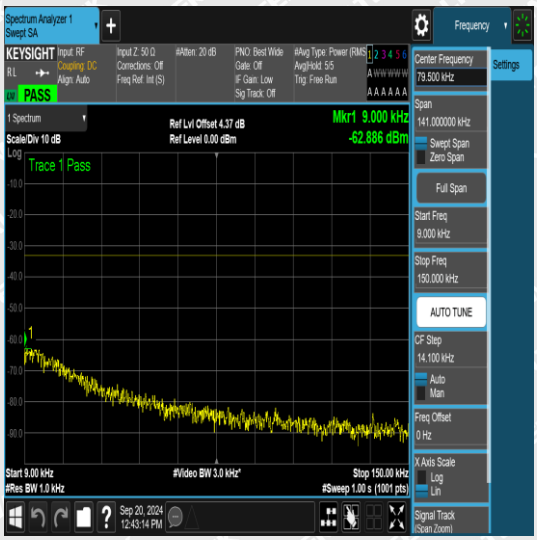	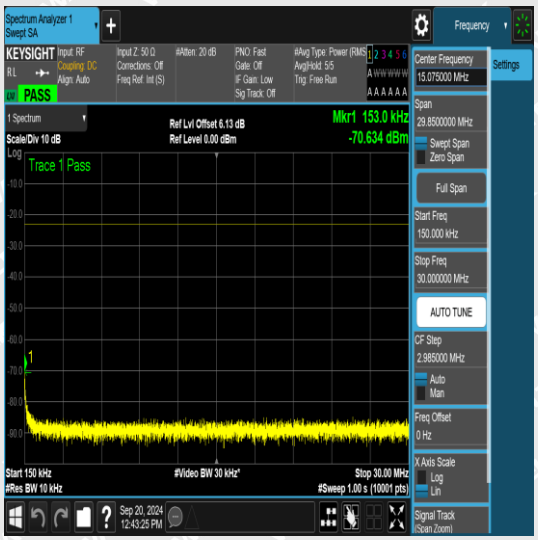
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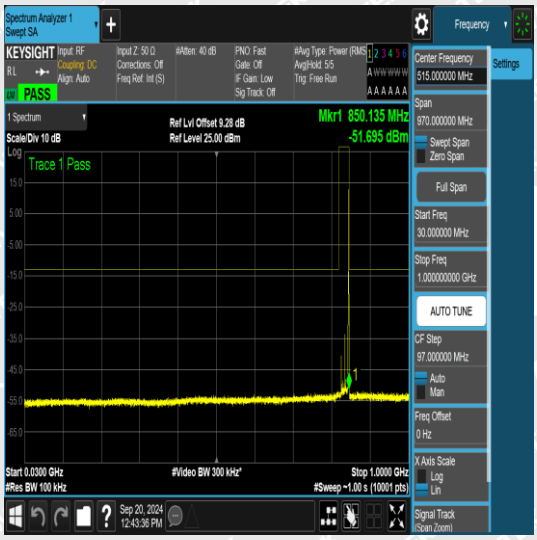	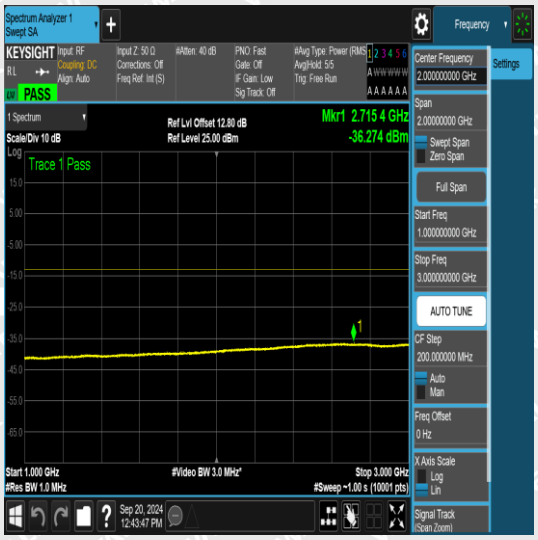
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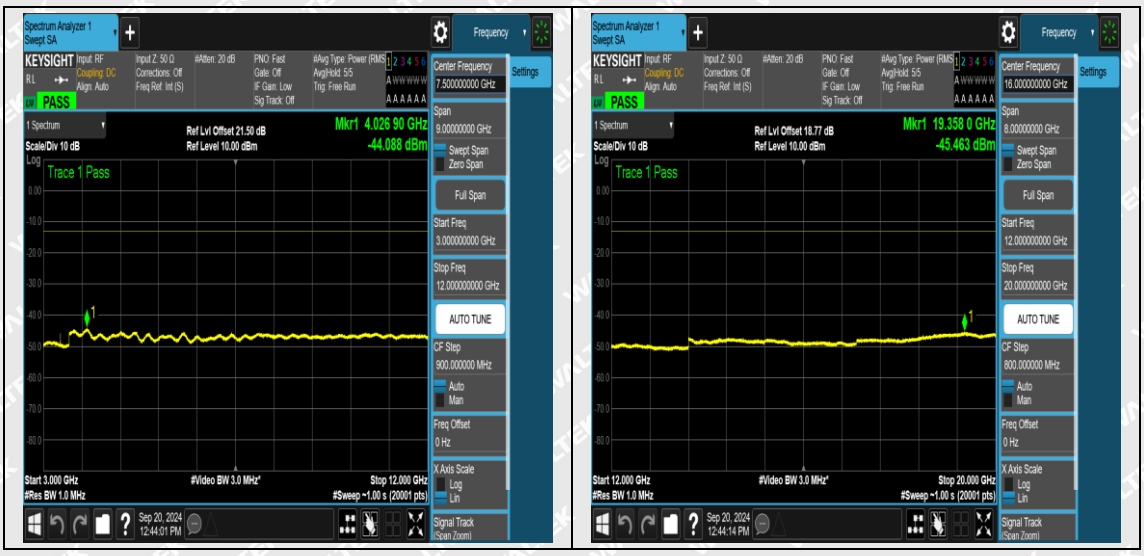
Spectrum Analyzer 1
Swept SA
KEYSIGHT
PASS
Frequency
Trace 1 Pass
Mkr1 4.026 90 GHz
-44.088 dBm
Ref Lvl Offset 21.50 dB
Ref Level 10.00 dBm
Scale/Div 10 dB
Start 3.000 GHz
#Res BW 1.0 MHz
#Video BW 3.0 MHz*
Stop 12.000 GHz
#Sweep ~1.00 s (20001 pts)
Center Frequency
7.500000000 GHz
Span
9.000000000 GHz
Start Freq
3.000000000 GHz
Stop Freq
12.000000000 GHz
AUTO TUNE
CF Step
900.000000 MHz
Freq Offset
0 Hz
Sep 20, 2024
12:44:01 PM
Spectrum Analyzer 1
Swept SA
KEYSIGHT
PASS
Frequency
Trace 1 Pass
Mkr1 19.358 0 GHz
-45.463 dBm
Ref Lvl Offset 18.77 dB
Ref Level 10.00 dBm
Scale/Div 10 dB
Start 12.000 GHz
#Res BW 1.0 MHz
#Video BW 3.0 MHz*
Stop 20.000 GHz
#Sweep ~1.00 s (20001 pts)
Center Frequency
16.000000000 GHz
Span
8.000000000 GHz
Start Freq
12.000000000 GHz
Stop Freq
20.000000000 GHz
AUTO TUNE
CF Step
800.000000 MHz
Freq Offset
0 Hz
Sep 20, 2024
12:44:14 PM

Appendix F: Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N5	15	5	DFT-QPSK	L	Outer_Full	VL	NT	-0.250000	-0.000302	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	VN	NT	-0.080000	-0.000097	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	VH	NT	1.370000	0.001658	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	VL	NT	-0.150000	-0.000181	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	VN	NT	1.910000	0.002311	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	VH	NT	1.010000	0.001222	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	VL	NT	-6.050000	-0.007233	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	VN	NT	-6.380000	-0.007627	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	VH	NT	-4.110000	-0.004913	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	VL	NT	-4.640000	-0.005547	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	VN	NT	-6.630000	-0.007926	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	VH	NT	-5.020000	-0.006001	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	VL	NT	-5.270000	-0.006226	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	VN	NT	-3.540000	-0.004182	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	VH	NT	-3.710000	-0.004383	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	VL	NT	-5.280000	-0.006237	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	VN	NT	-7.180000	-0.008482	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	VH	NT	-5.070000	-0.005989	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	VL	NT	-2.080000	-0.002509	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	VN	NT	-1.270000	-0.001532	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	VH	NT	-4.820000	-0.005814	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	VL	NT	-2.310000	-0.002786	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	VN	NT	-4.110000	-0.004958	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	VH	NT	-3.230000	-0.003896	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	VL	NT	-1.190000	-0.001423	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	VN	NT	-1.280000	-0.001530	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	VH	NT	-1.260000	-0.001506	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	VL	NT	-2.770000	-0.003311	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	VN	NT	-4.490000	-0.005368	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	VH	NT	-3.250000	-0.003885	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	VL	NT	-7.080000	-0.008389	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	VN	NT	-4.220000	-0.005000	PASS

N5	15	10	DFT-QPSK	H	Outer_Full	VH	NT	-3.780000	-0.004479	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	VL	NT	-3.130000	-0.003709	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	VN	NT	-2.820000	-0.003341	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	VH	NT	-3.990000	-0.004727	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	VL	NT	-8.119999	-0.009765	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	VN	NT	-5.640000	-0.006783	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	VH	NT	-6.050000	-0.007276	PASS
N5	15	15	DFT-16QAM	L	Outer_Full	VL	NT	-7.460000	-0.008972	PASS
N5	15	15	DFT-16QAM	L	Outer_Full	VN	NT	-4.570000	-0.005496	PASS
N5	15	15	DFT-16QAM	L	Outer_Full	VH	NT	-9.220000	-0.011088	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	VL	NT	-4.850000	-0.005798	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	VN	NT	-4.660000	-0.005571	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	VH	NT	-5.260000	-0.006288	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	VL	NT	-5.030000	-0.006013	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	VN	NT	-3.620000	-0.004328	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	VH	NT	-3.610000	-0.004316	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	VL	NT	-3.680000	-0.004373	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	VN	NT	-2.550000	-0.003030	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	VH	NT	-2.750000	-0.003268	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	VL	NT	-2.480000	-0.002947	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	VN	NT	-3.340000	-0.003969	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	VH	NT	-2.310000	-0.002745	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	VL	NT	-4.670000	-0.005600	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	VN	NT	-4.050000	-0.004856	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	VH	NT	-5.590000	-0.006703	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	VL	NT	-3.110000	-0.003729	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	VN	NT	-4.920000	-0.005899	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	VH	NT	-6.750000	-0.008094	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	VL	NT	-5.640000	-0.006742	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	VN	NT	-6.870000	-0.008213	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	VH	NT	-6.210000	-0.007424	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	VL	NT	-5.900000	-0.007053	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	VN	NT	-5.580000	-0.006671	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	VH	NT	-6.190000	-0.007400	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	VL	NT	-4.620000	-0.005507	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	VN	NT	-6.720000	-0.008010	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	VH	NT	-5.620000	-0.006698	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	VL	NT	-2.760000	-0.003290	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	VN	NT	-4.890000	-0.005828	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	VH	NT	-5.390000	-0.006424	PASS

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N5	15	5	DFT-QPSK	L	Outer_Full	NV	-30	-0.420000	-0.000508	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	NV	-20	0.520000	0.000629	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	NV	-10	-1.440000	-0.001742	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	NV	0	-0.230000	-0.000278	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	NV	10	-0.860000	-0.001041	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	NV	20	-0.720000	-0.000871	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	NV	30	0.700000	0.000847	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	NV	40	0.120000	0.000145	PASS
N5	15	5	DFT-QPSK	L	Outer_Full	NV	50	-2.410000	-0.002916	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	NV	-30	0.170000	0.000206	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	NV	-20	0.550000	0.000665	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	NV	-10	-1.910000	-0.002311	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	NV	0	-0.680000	-0.000823	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	NV	10	-0.250000	-0.000302	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	NV	20	0.190000	0.000230	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	NV	30	-1.370000	-0.001658	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	NV	40	-0.020000	-0.000024	PASS
N5	15	5	DFT-16QAM	L	Outer_Full	NV	50	-1.380000	-0.001670	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	NV	-30	-4.250000	-0.005081	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	NV	-20	-2.980000	-0.003562	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	NV	-10	-3.290000	-0.003933	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	NV	0	-4.850000	-0.005798	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	NV	10	-6.750000	-0.008069	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	NV	20	-6.120000	-0.007316	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	NV	30	-3.700000	-0.004423	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	NV	40	-4.520000	-0.005403	PASS
N5	15	5	DFT-QPSK	M	Outer_Full	NV	50	-2.430000	-0.002905	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	NV	-30	-4.010000	-0.004794	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	NV	-20	-1.310000	-0.001566	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	NV	-10	-3.160000	-0.003778	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	NV	0	-5.570000	-0.006659	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	NV	10	-3.250000	-0.003885	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	NV	20	-5.510000	-0.006587	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	NV	30	-6.690000	-0.007998	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	NV	40	-4.520000	-0.005403	PASS
N5	15	5	DFT-16QAM	M	Outer_Full	NV	50	-6.680000	-0.007986	PASS

N5	15	5	DFT-QPSK	H	Outer_Full	NV	-30	-6.040000	-0.007135	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	NV	-20	-7.410000	-0.008754	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	NV	-10	-7.680000	-0.009073	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	NV	0	-9.110000	-0.010762	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	NV	10	-5.180000	-0.006119	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	NV	20	-6.320000	-0.007466	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	NV	30	-5.770000	-0.006816	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	NV	40	-6.900000	-0.008151	PASS
N5	15	5	DFT-QPSK	H	Outer_Full	NV	50	-6.220000	-0.007348	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	NV	-30	-5.440000	-0.006426	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	NV	-20	-6.880000	-0.008128	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	NV	-10	-3.960000	-0.004678	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	NV	0	-8.020000	-0.009474	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	NV	10	-6.380000	-0.007537	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	NV	20	-5.870000	-0.006934	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	NV	30	-5.560000	-0.006568	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	NV	40	-3.540000	-0.004182	PASS
N5	15	5	DFT-16QAM	H	Outer_Full	NV	50	-7.150000	-0.008447	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	NV	-30	0.130000	0.000157	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	NV	-20	-2.340000	-0.002823	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	NV	-10	-2.710000	-0.003269	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	NV	0	-4.280000	-0.005163	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	NV	10	-2.360000	-0.002847	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	NV	20	-2.440000	-0.002943	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	NV	30	-2.590000	-0.003124	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	NV	40	-2.730000	-0.003293	PASS
N5	15	10	DFT-QPSK	L	Outer_Full	NV	50	-2.860000	-0.003450	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	NV	-30	-4.710000	-0.005682	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	NV	-20	-2.480000	-0.002992	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	NV	-10	-1.370000	-0.001653	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	NV	0	-2.009999	-0.002425	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	NV	10	-1.130000	-0.001363	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	NV	20	-3.030000	-0.003655	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	NV	30	-1.820000	-0.002195	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	NV	40	-4.900000	-0.005911	PASS
N5	15	10	DFT-16QAM	L	Outer_Full	NV	50	-1.960000	-0.002364	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	NV	-30	-2.440000	-0.002917	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	NV	-20	-2.930000	-0.003503	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	NV	-10	-2.920000	-0.003491	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	NV	0	-3.520000	-0.004208	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	NV	10	-2.180000	-0.002606	PASS

N5	15	10	DFT-QPSK	M	Outer_Full	NV	20	-5.210000	-0.006228	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	NV	30	-1.540000	-0.001841	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	NV	40	-2.490000	-0.002977	PASS
N5	15	10	DFT-QPSK	M	Outer_Full	NV	50	-3.760000	-0.004495	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	NV	-30	-2.480000	-0.002965	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	NV	-20	-2.430000	-0.002905	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	NV	-10	-3.980000	-0.004758	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	NV	0	-0.390000	-0.000466	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	NV	10	-3.270000	-0.003909	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	NV	20	-4.139999	-0.004949	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	NV	30	-4.550000	-0.005439	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	NV	40	-0.490000	-0.000586	PASS
N5	15	10	DFT-16QAM	M	Outer_Full	NV	50	-0.720000	-0.000861	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	NV	-30	-6.520000	-0.007725	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	NV	-20	-4.420000	-0.005237	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	NV	-10	-6.300000	-0.007464	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	NV	0	-3.030000	-0.003590	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	NV	10	-4.680000	-0.005545	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	NV	20	-3.870000	-0.004585	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	NV	30	-3.080000	-0.003649	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	NV	40	-4.160000	-0.004929	PASS
N5	15	10	DFT-QPSK	H	Outer_Full	NV	50	-3.190000	-0.003780	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	NV	-30	-2.890000	-0.003424	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	NV	-20	-1.760000	-0.002085	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	NV	-10	-5.030000	-0.005960	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	NV	0	-4.940000	-0.005853	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	NV	10	-5.800000	-0.006872	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	NV	20	-2.800000	-0.003318	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	NV	30	-3.580000	-0.004242	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	NV	40	-2.600000	-0.003081	PASS
N5	15	10	DFT-16QAM	H	Outer_Full	NV	50	-5.610000	-0.006647	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	NV	-30	-5.440000	-0.006542	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	NV	-20	-4.800000	-0.005773	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	NV	-10	-5.730000	-0.006891	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	NV	0	-4.190000	-0.005039	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	NV	10	-4.070000	-0.004895	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	NV	20	-5.660000	-0.006807	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	NV	30	-6.860000	-0.008250	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	NV	40	-6.550000	-0.007877	PASS
N5	15	15	DFT-QPSK	L	Outer_Full	NV	50	-5.780000	-0.006951	PASS
N5	15	15	DFT-16QAM	L	Outer_Full	NV	-30	-5.970000	-0.007180	PASS

N5	15	15	DFT-16QAM	L	Outer_Full	NV	-20	-5.840000	-0.007023	PASS
N5	15	15	DFT-16QAM	L	Outer_Full	NV	-10	-7.790000	-0.009369	PASS
N5	15	15	DFT-16QAM	L	Outer_Full	NV	0	-7.750000	-0.009321	PASS
N5	15	15	DFT-16QAM	L	Outer_Full	NV	10	-6.190000	-0.007444	PASS
N5	15	15	DFT-16QAM	L	Outer_Full	NV	20	-6.230000	-0.007492	PASS
N5	15	15	DFT-16QAM	L	Outer_Full	NV	30	-6.830000	-0.008214	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	NV	-30	-5.380000	-0.006432	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	NV	-20	-2.830000	-0.003383	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	NV	-10	-3.180000	-0.003802	PASS
N5	15	15	DFT-QPSK	M	Outer_Full	NV	0	-3.320000	-0.003969	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	NV	-30	-4.150000	-0.004961	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	NV	-20	-6.690000	-0.007998	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	NV	-10	-7.500000	-0.008966	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	NV	0	-3.730000	-0.004459	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	NV	10	-4.790000	-0.005726	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	NV	20	-4.640000	-0.005547	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	NV	30	-5.850000	-0.006993	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	NV	40	-3.930000	-0.004698	PASS
N5	15	15	DFT-16QAM	M	Outer_Full	NV	50	-7.520000	-0.008990	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	NV	-30	-3.240000	-0.003850	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	NV	-20	-5.130000	-0.006096	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	NV	-10	-5.260000	-0.006251	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	NV	0	-2.170000	-0.002579	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	NV	10	-1.630000	-0.001937	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	NV	20	-2.150000	-0.002555	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	NV	30	-2.860000	-0.003399	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	NV	40	-1.530000	-0.001818	PASS
N5	15	15	DFT-QPSK	H	Outer_Full	NV	50	-2.160000	-0.002567	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	NV	-30	-5.740000	-0.006821	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	NV	-20	-3.200000	-0.003803	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	NV	-10	-2.360000	-0.002805	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	NV	0	-2.590000	-0.003078	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	NV	10	-4.600000	-0.005466	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	NV	20	-5.230000	-0.006215	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	NV	30	-2.920000	-0.003470	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	NV	40	-3.470000	-0.004124	PASS
N5	15	15	DFT-16QAM	H	Outer_Full	NV	50	-3.680000	-0.004373	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	NV	-30	-5.500000	-0.006595	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	NV	-20	-6.390000	-0.007662	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	NV	-10	-4.930000	-0.005911	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	NV	0	-5.450000	-0.006535	PASS

N5	15	20	DFT-QPSK	L	Outer_Full	NV	10	-4.810000	-0.005767	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	NV	20	-7.120000	-0.008537	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	NV	30	-6.940000	-0.008321	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	NV	40	-5.190000	-0.006223	PASS
N5	15	20	DFT-QPSK	L	Outer_Full	NV	50	-5.630000	-0.006751	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	NV	-30	-6.790000	-0.008141	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	NV	-20	-4.240000	-0.005084	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	NV	-10	-2.150000	-0.002578	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	NV	0	-4.950000	-0.005935	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	NV	10	-4.179999	-0.005012	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	NV	20	-4.670000	-0.005600	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	NV	30	-4.840000	-0.005803	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	NV	40	-4.450000	-0.005336	PASS
N5	15	20	DFT-16QAM	L	Outer_Full	NV	50	-5.140000	-0.006163	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	NV	-30	-7.190000	-0.008595	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	NV	-20	-7.070000	-0.008452	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	NV	-10	-6.390000	-0.007639	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	NV	0	-5.500000	-0.006575	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	NV	10	-4.090000	-0.004889	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	NV	20	-5.900000	-0.007053	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	NV	30	-6.470000	-0.007735	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	NV	40	-6.630000	-0.007926	PASS
N5	15	20	DFT-QPSK	M	Outer_Full	NV	50	-6.510000	-0.007782	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	NV	-30	-7.770000	-0.009289	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	NV	-20	-4.179999	-0.004997	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	NV	-10	-5.160000	-0.006169	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	NV	0	-4.670000	-0.005583	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	NV	10	-4.160000	-0.004973	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	NV	20	-7.170000	-0.008571	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	NV	30	-4.160000	-0.004973	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	NV	40	-6.310000	-0.007543	PASS
N5	15	20	DFT-16QAM	M	Outer_Full	NV	50	-7.550000	-0.009026	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	NV	-30	-5.520000	-0.006579	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	NV	-20	-3.830000	-0.004565	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	NV	-10	-3.850000	-0.004589	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	NV	0	-4.650000	-0.005542	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	NV	10	-5.730000	-0.006830	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	NV	20	-6.300000	-0.007509	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	NV	30	-5.220000	-0.006222	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	NV	40	-4.690000	-0.005590	PASS
N5	15	20	DFT-QPSK	H	Outer_Full	NV	50	-4.400000	-0.005244	PASS

N5	15	20	DFT-16QAM	H	Outer_Full	NV	-30	-4.570000	-0.005447	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	NV	-20	-6.020000	-0.007175	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	NV	-10	-4.680000	-0.005578	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	NV	0	-5.760000	-0.006865	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	NV	10	-5.660000	-0.006746	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	NV	20	-3.420000	-0.004075	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	NV	30	-3.670000	-0.004374	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	NV	40	-7.270000	-0.008665	PASS
N5	15	20	DFT-16QAM	H	Outer_Full	NV	50	-6.250000	-0.007449	PASS

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