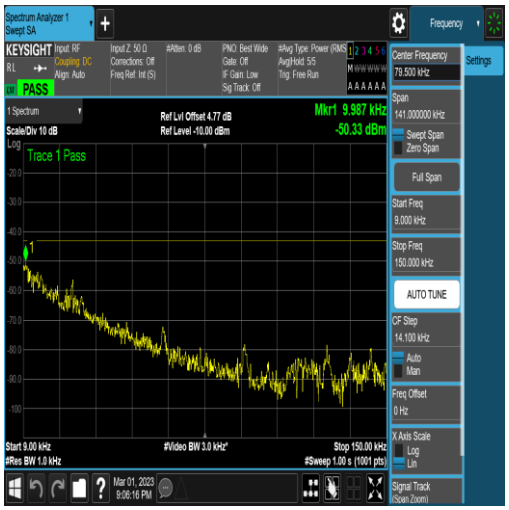

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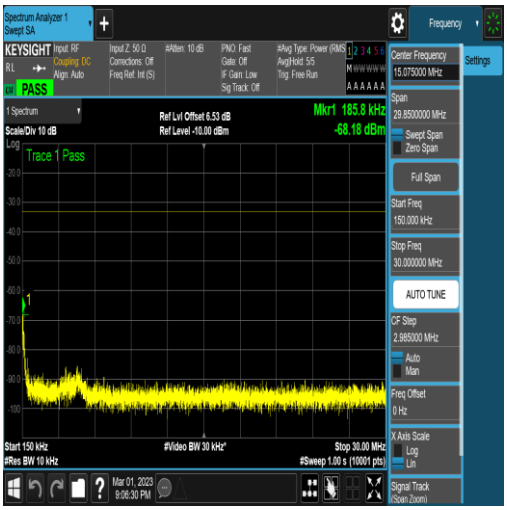

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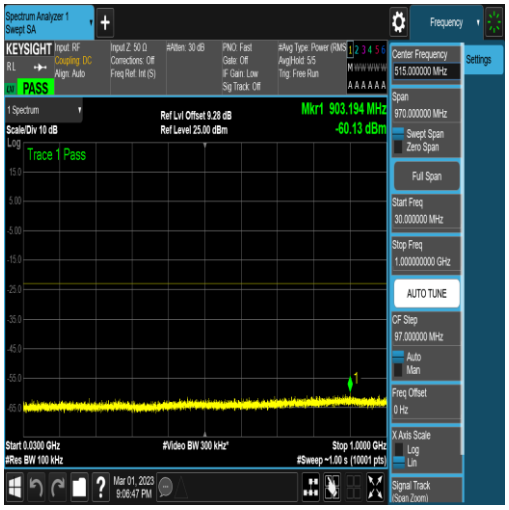

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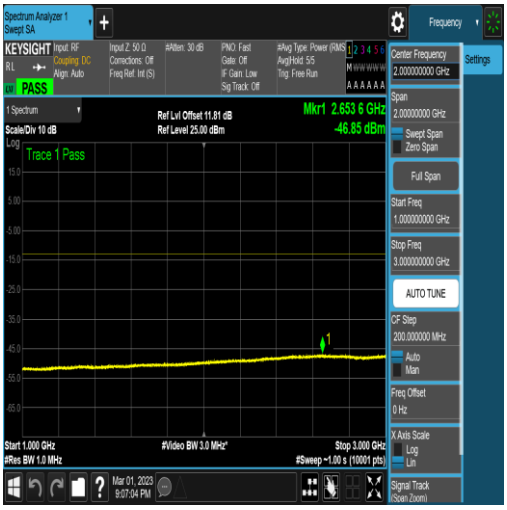

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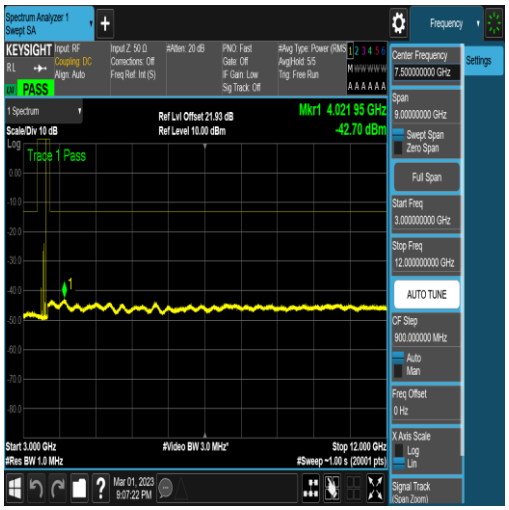

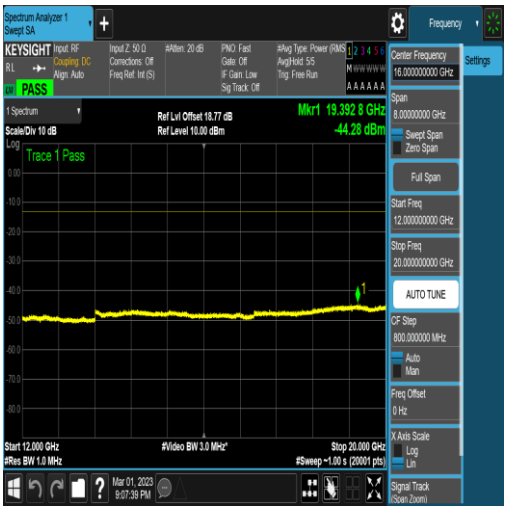

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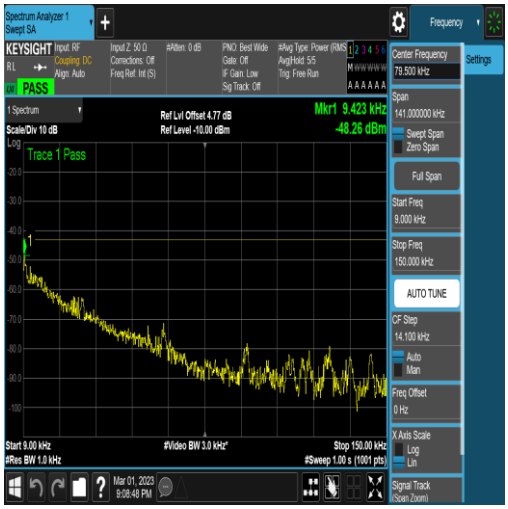	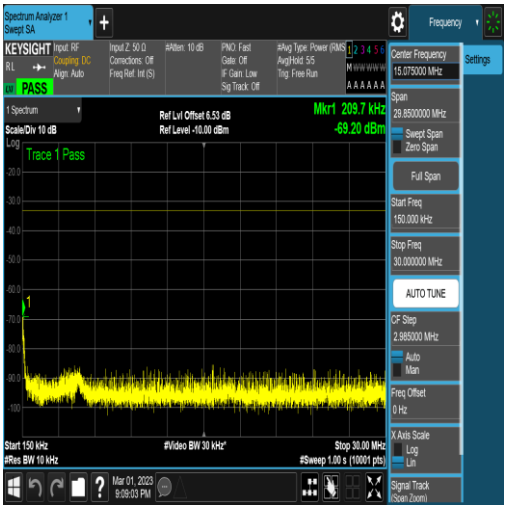
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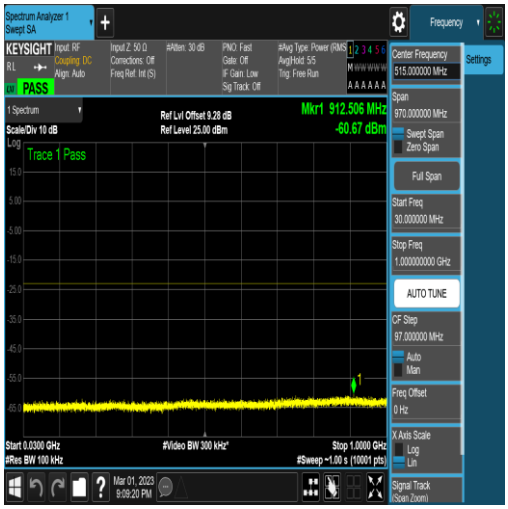	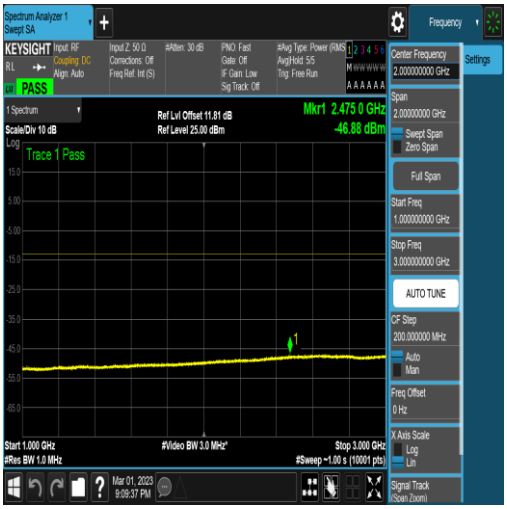
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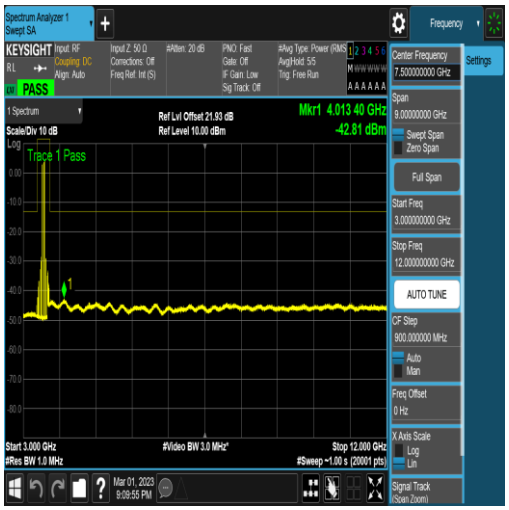	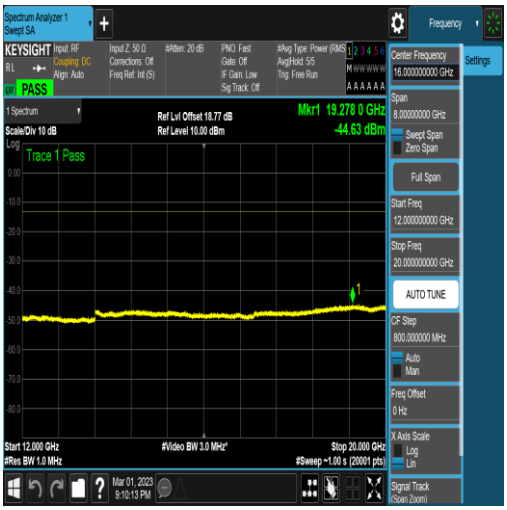
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Appendix F: Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78-3450-3550	30	20	DFT-QPSK	L	Outer_Full	VN	NT	-6.38	0.00	PASS
N78-3450-3550	30	20	CP-QPSK	L	Outer_Full	VN	NT	-5.90	0.00	PASS
N78-3450-3550	30	20	DFT-QPSK	M	Outer_Full	VN	NT	-8.20	0.00	PASS
N78-3450-3550	30	20	CP-QPSK	M	Outer_Full	VN	NT	-4.91	0.00	PASS
N78-3450-3550	30	20	DFT-QPSK	H	Outer_Full	VN	NT	-12.36	0.00	PASS
N78-3450-3550	30	20	CP-QPSK	H	Outer_Full	VN	NT	-6.93	0.00	PASS
N78-3450-3550	30	40	DFT-QPSK	L	Outer_Full	VN	NT	-4.72	0.00	PASS
N78-3450-3550	30	40	CP-QPSK	L	Outer_Full	VN	NT	-10.00	0.00	PASS
N78-3450-3550	30	40	DFT-QPSK	M	Outer_Full	VN	NT	-10.70	0.00	PASS
N78-3450-3550	30	40	CP-QPSK	M	Outer_Full	VN	NT	-5.81	0.00	PASS
N78-3450-3550	30	40	DFT-QPSK	H	Outer_Full	VN	NT	-9.80	0.00	PASS
N78-3450-3550	30	40	CP-QPSK	H	Outer_Full	VN	NT	-3.04	0.00	PASS
N78-3450-3550	30	50	DFT-QPSK	L	Outer_Full	VN	NT	-4.68	0.00	PASS
N78-3450-3550	30	50	CP-QPSK	L	Outer_Full	VN	NT	11.83	0.00	PASS
N78-3450-3550	30	50	DFT-QPSK	M	Outer_Full	VN	NT	10.53	0.00	PASS
N78-345	30	50	CP-QPSK	M	Outer_Full	VN	NT	-3.83	0.00	PASS

0-3550										
N78-345 0-3550	30	50	DFT-QPSK	H	Outer_Full	VN	NT	8.29	0.00	PASS
N78-345 0-3550	30	50	CP-QPSK	H	Outer_Full	VN	NT	-14.48	0.00	PASS
N78-345 0-3550	30	60	DFT-QPSK	L	Outer_Full	VN	NT	4.87	0.00	PASS
N78-345 0-3550	30	60	CP-QPSK	L	Outer_Full	VN	NT	1.28	0.00	PASS
N78-345 0-3550	30	60	DFT-QPSK	M	Outer_Full	VN	NT	3.83	0.00	PASS
N78-345 0-3550	30	60	CP-QPSK	M	Outer_Full	VN	NT	8.14	0.00	PASS
N78-345 0-3550	30	60	DFT-QPSK	H	Outer_Full	VN	NT	-2.72	0.00	PASS
N78-345 0-3550	30	60	CP-QPSK	H	Outer_Full	VN	NT	5.05	0.00	PASS
N78-345 0-3550	30	80	DFT-QPSK	L	Outer_Full	VN	NT	2.07	0.00	PASS
N78-345 0-3550	30	80	CP-QPSK	L	Outer_Full	VN	NT	-1.28	0.00	PASS
N78-345 0-3550	30	80	DFT-QPSK	M	Outer_Full	VN	NT	-12.48	0.00	PASS
N78-345 0-3550	30	80	CP-QPSK	M	Outer_Full	VN	NT	-13.17	0.00	PASS
N78-345 0-3550	30	80	DFT-QPSK	H	Outer_Full	VN	NT	4.27	0.00	PASS
N78-345 0-3550	30	80	CP-QPSK	H	Outer_Full	VN	NT	0.84	0.00	PASS
N78-345 0-3550	30	90	DFT-QPSK	L	Outer_Full	VN	NT	-12.30	0.00	PASS
N78-345 0-3550	30	90	CP-QPSK	L	Outer_Full	VN	NT	3.88	0.00	PASS
N78-345 0-3550	30	90	DFT-QPSK	M	Outer_Full	VN	NT	-3.32	0.00	PASS
N78-345 0-3550	30	90	CP-QPSK	M	Outer_Full	VN	NT	0.38	0.00	PASS
N78-345 0-3550	30	90	DFT-QPSK	H	Outer_Full	VN	NT	-8.20	0.00	PASS
N78-345 0-3550	30	90	CP-QPSK	H	Outer_Full	VN	NT	-18.72	-0.01	PASS
N78-345	30	100	DFT-QPSK	L	Outer_Full	VN	NT	-2.20	0.00	PASS

0-3550										
N78-3450-3550	30	100	CP-QPSK	L	Outer_Full	VN	NT	0.98	0.00	PASS
N78-3450-3550	30	100	DFT-QPSK	M	Outer_Full	VN	NT	2.70	0.00	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	VN	NT	7.57	0.00	PASS
N78-3450-3550	30	100	DFT-QPSK	H	Outer_Full	VN	NT	6.99	0.00	PASS
N78-3450-3550	30	100	CP-QPSK	H	Outer_Full	VN	NT	13.22	0.00	PASS

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78-3450-3550	30	20	DFT-QPSK	L	Outer_Full	NV	TN	-7.159285	-0.002069	PASS
N78-3450-3550	30	20	CP-QPSK	L	Outer_Full	NV	TN	-6.316730	-0.001826	PASS
N78-3450-3550	30	20	DFT-QPSK	M	Outer_Full	NV	TN	-1.974244	-0.000564	PASS
N78-3450-3550	30	20	CP-QPSK	M	Outer_Full	NV	TN	-7.729087	-0.002208	PASS
N78-3450-3550	30	20	DFT-QPSK	H	Outer_Full	NV	TN	-10.984912	-0.003103	PASS
N78-3450-3550	30	20	CP-QPSK	H	Outer_Full	NV	TN	-8.487146	-0.002397	PASS
N78-3450-3550	30	40	DFT-QPSK	L	Outer_Full	NV	TN	-2.098962	-0.000605	PASS
N78-3450-3550	30	40	CP-QPSK	L	Outer_Full	NV	TN	-18.656408	-0.005376	PASS
N78-3450-3550	30	40	DFT-QPSK	M	Outer_Full	NV	TN	-5.423092	-0.001549	PASS
N78-3450-3550	30	40	CP-QPSK	M	Outer_Full	NV	TN	-11.664207	-0.003333	PASS
N78-3450-3550	30	40	DFT-QPSK	H	Outer_Full	NV	TN	-6.813860	-0.001930	PASS
N78-3450-3550	30	40	CP-QPSK	H	Outer_Full	NV	TN	-0.865714	-0.000245	PASS

N78-3450-3550	30	50	DFT-QPSK	L	Outer_Full	NV	TN	-2.306916	-0.000664	PASS
N78-3450-3550	30	50	CP-QPSK	L	Outer_Full	NV	TN	-0.040411	-0.000012	PASS
N78-3450-3550	30	50	DFT-QPSK	M	Outer_Full	NV	TN	-5.833967	-0.001667	PASS
N78-3450-3550	30	50	CP-QPSK	M	Outer_Full	NV	TN	6.496437	0.001856	PASS
N78-3450-3550	30	50	DFT-QPSK	H	Outer_Full	NV	TN	-16.498545	-0.004680	PASS
N78-3450-3550	30	50	CP-QPSK	H	Outer_Full	NV	TN	0.206257	0.000059	PASS
N78-3450-3550	30	60	DFT-QPSK	L	Outer_Full	NV	TN	-7.667264	-0.002203	PASS
N78-3450-3550	30	60	CP-QPSK	L	Outer_Full	NV	TN	14.679812	0.004218	PASS
N78-3450-3550	30	60	DFT-QPSK	M	Outer_Full	NV	TN	10.227242	0.002922	PASS
N78-3450-3550	30	60	CP-QPSK	M	Outer_Full	NV	TN	-6.055551	-0.001730	PASS
N78-3450-3550	30	60	DFT-QPSK	H	Outer_Full	NV	TN	1.039056	0.000295	PASS
N78-3450-3550	30	60	CP-QPSK	H	Outer_Full	NV	TN	0.143951	0.000041	PASS
N78-3450-3550	30	80	DFT-QPSK	L	Outer_Full	NV	TN	-15.602432	-0.004471	PASS
N78-3450-3550	30	80	CP-QPSK	L	Outer_Full	NV	TN	8.540906	0.002447	PASS
N78-3450-3550	30	80	DFT-QPSK	M	Outer_Full	NV	TN	-5.800388	-0.001657	PASS
N78-3450-3550	30	80	CP-QPSK	M	Outer_Full	NV	TN	-11.166019	-0.003190	PASS
N78-3450-3550	30	80	DFT-QPSK	H	Outer_Full	NV	TN	18.144411	0.005169	PASS
N78-3450-3550	30	80	CP-QPSK	H	Outer_Full	NV	TN	14.543933	0.004144	PASS
N78-3450-3550	30	90	DFT-QPSK	L	Outer_Full	NV	TN	5.624158	0.001609	PASS
N78-3450-3550	30	90	CP-QPSK	L	Outer_Full	NV	TN	-14.289528	-0.004089	PASS
N78-3450-3550	30	90	DFT-QPSK	M	Outer_Full	NV	TN	-4.090956	-0.001169	PASS

N78-3450-3550	30	90	CP-QPSK	M	Outer_Full	NV	TN	-9.620117	-0.002749	PASS
N78-3450-3550	30	90	DFT-QPSK	H	Outer_Full	NV	TN	-9.712859	-0.002771	PASS
N78-3450-3550	30	90	CP-QPSK	H	Outer_Full	NV	TN	-24.443991	-0.006974	PASS
N78-3450-3550	30	100	DFT-QPSK	L	Outer_Full	NV	TN	-5.951996	-0.001701	PASS
N78-3450-3550	30	100	CP-QPSK	L	Outer_Full	NV	TN	3.779258	0.001080	PASS
N78-3450-3550	30	100	DFT-QPSK	M	Outer_Full	NV	TN	-4.349780	-0.001243	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	NV	TN	9.444193	0.002698	PASS
N78-3450-3550	30	100	DFT-QPSK	H	Outer_Full	NV	TN	-14.836136	-0.004239	PASS
N78-3450-3550	30	100	CP-QPSK	H	Outer_Full	NV	TN	7.179275	0.002051	PASS

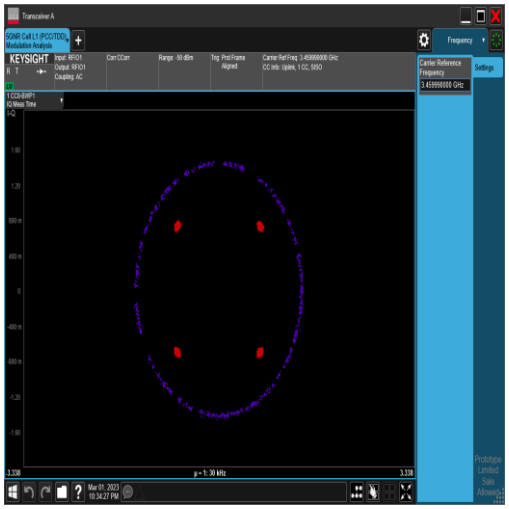
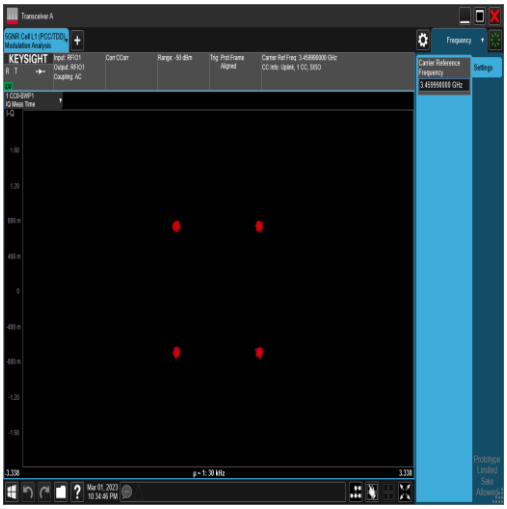
Appendix F: Modulation characteristics for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N78-3450-3550	30	20	DFT-QPSK	L	Outer_Full	see graph	PASS
N78-3450-3550	30	20	CP-QPSK	L	Outer_Full	see graph	PASS
N78-3450-3550	30	20	DFT-QPSK	M	Outer_Full	see graph	PASS
N78-3450-3550	30	20	CP-QPSK	M	Outer_Full	see graph	PASS
N78-3450-3550	30	20	DFT-QPSK	H	Outer_Full	see graph	PASS
N78-3450-3550	30	20	CP-QPSK	H	Outer_Full	see graph	PASS
N78-3450-3550	30	40	DFT-QPSK	L	Outer_Full	see graph	PASS
N78-3450-3550	30	40	CP-QPSK	L	Outer_Full	see graph	PASS
N78-3450-3550	30	40	DFT-QPSK	M	Outer_Full	see graph	PASS
N78-3450-3550	30	40	CP-QPSK	M	Outer_Full	see graph	PASS
N78-3450-3550	30	40	DFT-QPSK	H	Outer_Full	see graph	PASS
N78-3450-3550	30	40	CP-QPSK	H	Outer_Full	see graph	PASS
N78-3450-3550	30	50	DFT-QPSK	L	Outer_Full	see graph	PASS
N78-3450-3550	30	50	CP-QPSK	L	Outer_Full	see graph	PASS
N78-3450-3550	30	50	DFT-QPSK	M	Outer_Full	see graph	PASS
N78-3450-3550	30	50	CP-QPSK	M	Outer_Full	see graph	PASS
N78-3450-3550	30	50	DFT-QPSK	H	Outer_Full	see graph	PASS
N78-3450-3550	30	50	CP-QPSK	H	Outer_Full	see graph	PASS
N78-3450-3550	30	60	DFT-QPSK	L	Outer_Full	see graph	PASS
N78-3450-3550	30	60	CP-QPSK	L	Outer_Full	see graph	PASS
N78-3450-3550	30	60	DFT-QPSK	M	Outer_Full	see graph	PASS
N78-3450-3550	30	60	CP-QPSK	M	Outer_Full	see graph	PASS
N78-3450-3550	30	60	DFT-QPSK	H	Outer_Full	see graph	PASS
N78-3450-3550	30	60	CP-QPSK	H	Outer_Full	see graph	PASS
N78-3450-3550	30	80	DFT-QPSK	L	Outer_Full	see graph	PASS
N78-3450-3550	30	80	CP-QPSK	L	Outer_Full	see graph	PASS
N78-3450-3550	30	80	DFT-QPSK	M	Outer_Full	see graph	PASS
N78-3450-3550	30	80	CP-QPSK	M	Outer_Full	see graph	PASS
N78-3450-3550	30	80	DFT-QPSK	H	Outer_Full	see graph	PASS
N78-3450-3550	30	80	CP-QPSK	H	Outer_Full	see graph	PASS
N78-3450-3550	30	90	DFT-QPSK	L	Outer_Full	see graph	PASS
N78-3450-3550	30	90	CP-QPSK	L	Outer_Full	see graph	PASS
N78-3450-3550	30	90	DFT-QPSK	M	Outer_Full	see graph	PASS
N78-3450-3550	30	90	CP-QPSK	M	Outer_Full	see graph	PASS
N78-3450-3550	30	90	DFT-QPSK	H	Outer_Full	see graph	PASS
N78-3450-3550	30	90	CP-QPSK	H	Outer_Full	see graph	PASS

N78-3450-3550	30	100	DFT-QPSK	L	Outer_Full	see graph	PASS
N78-3450-3550	30	100	CP-QPSK	L	Outer_Full	see graph	PASS
N78-3450-3550	30	100	DFT-QPSK	M	Outer_Full	see graph	PASS
N78-3450-3550	30	100	CP-QPSK	M	Outer_Full	see graph	PASS
N78-3450-3550	30	100	DFT-QPSK	H	Outer_Full	see graph	PASS
N78-3450-3550	30	100	CP-QPSK	H	Outer_Full	see graph	PASS

Test Graphs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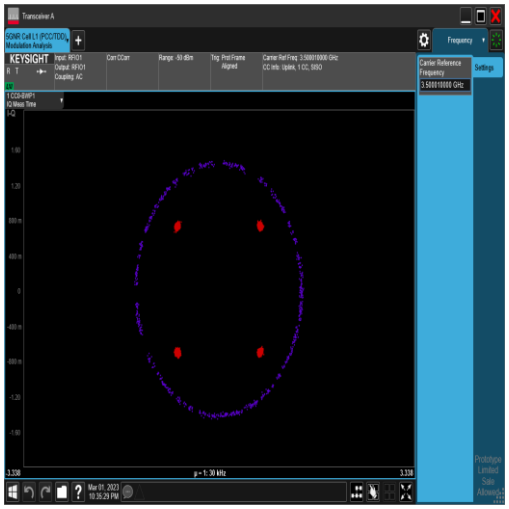	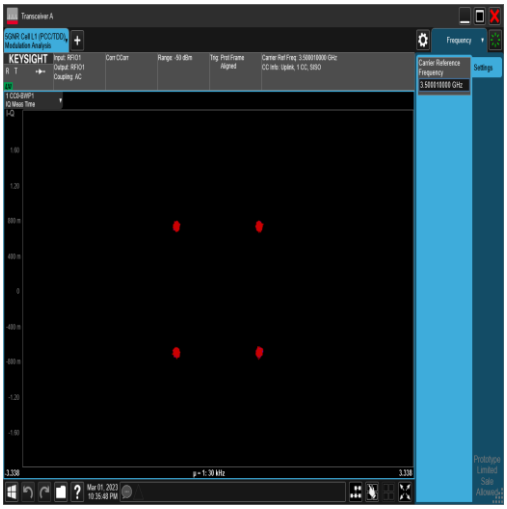
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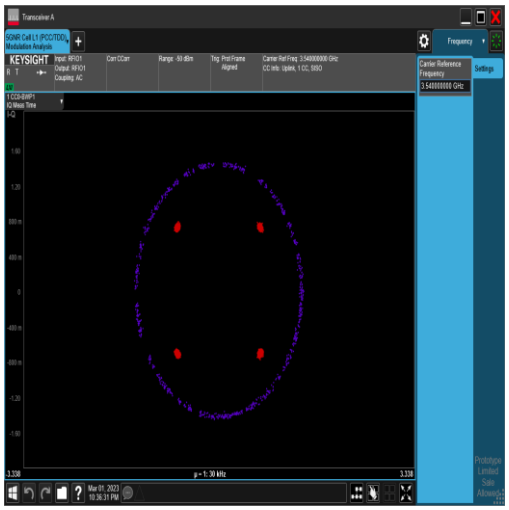	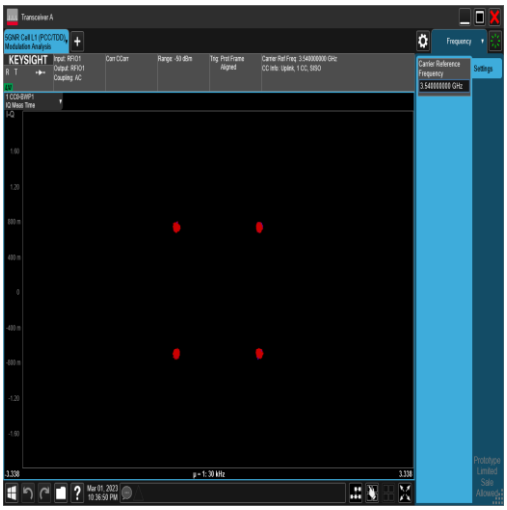
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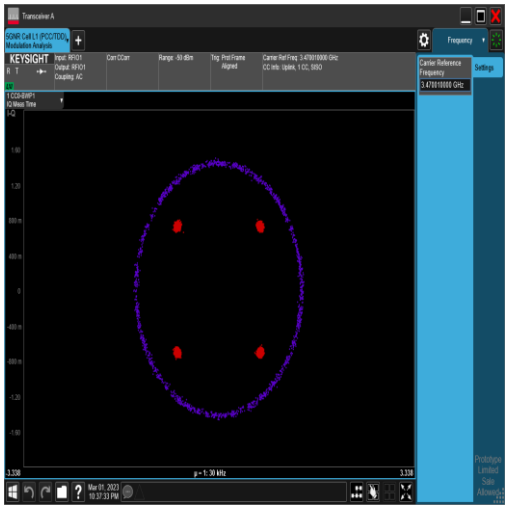	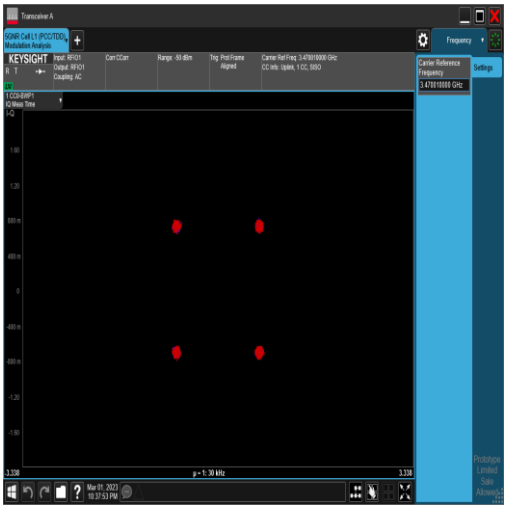
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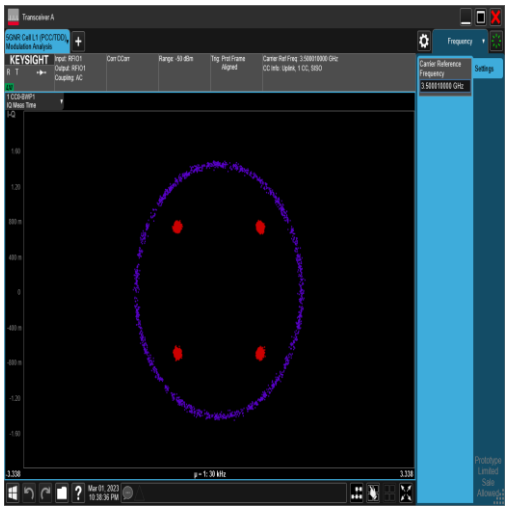	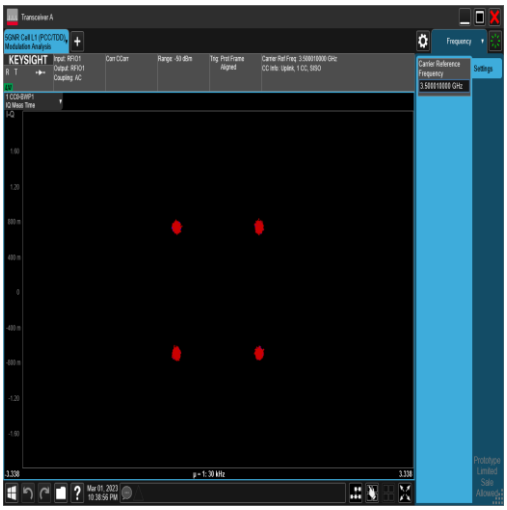
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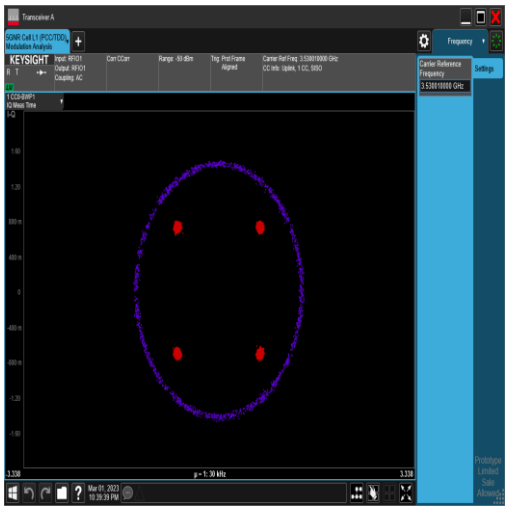	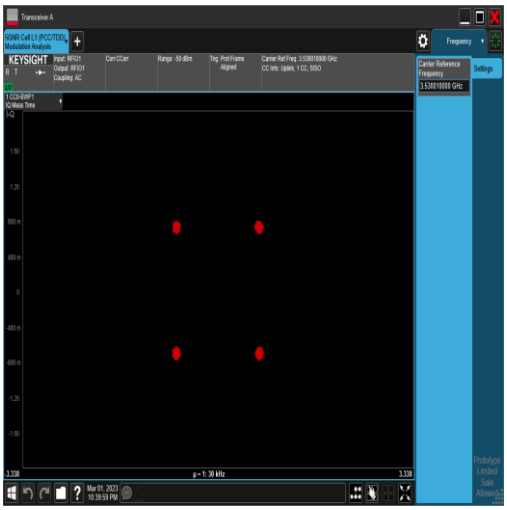
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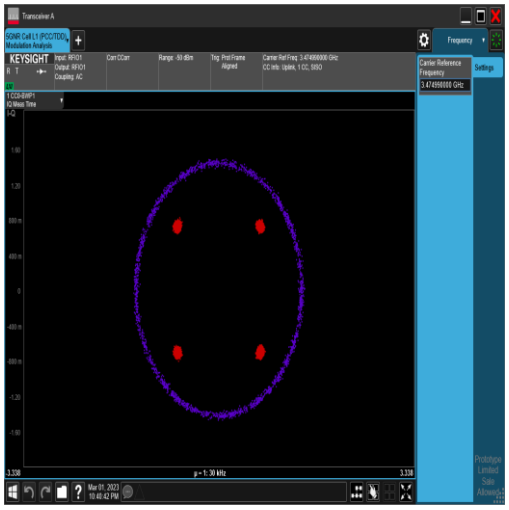	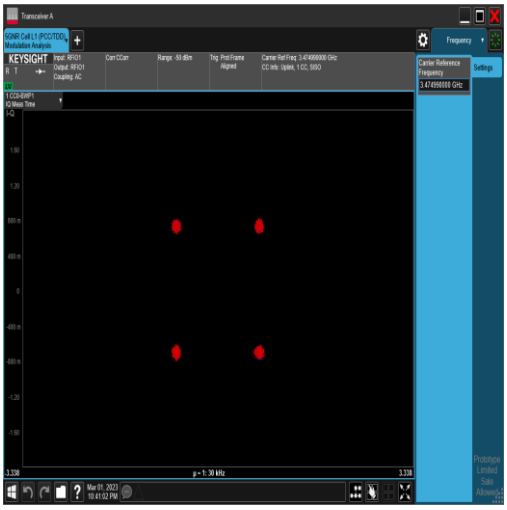
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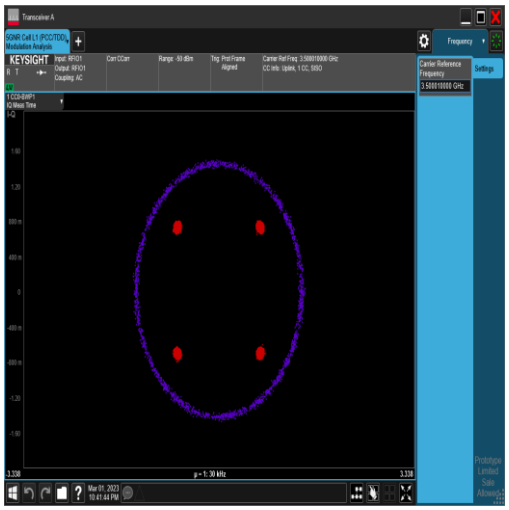	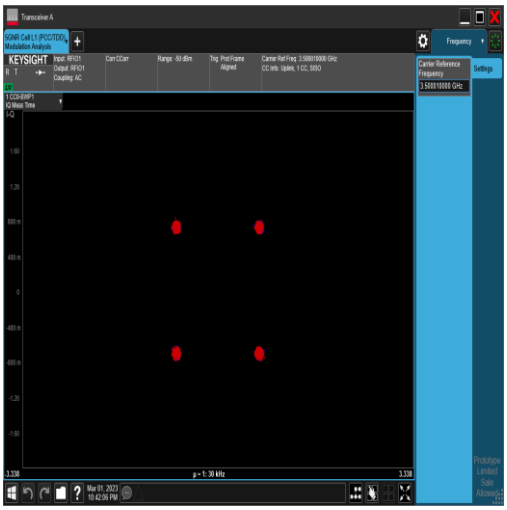
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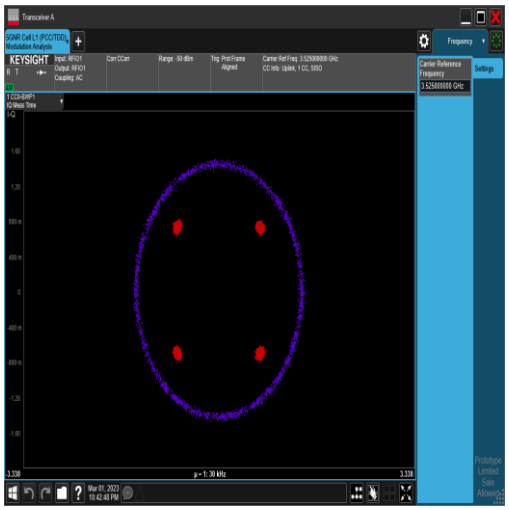	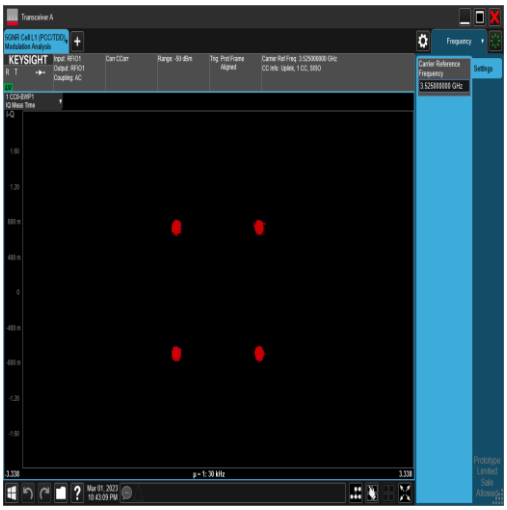
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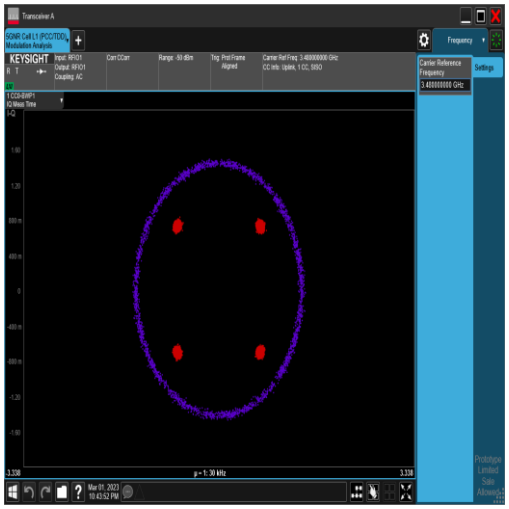	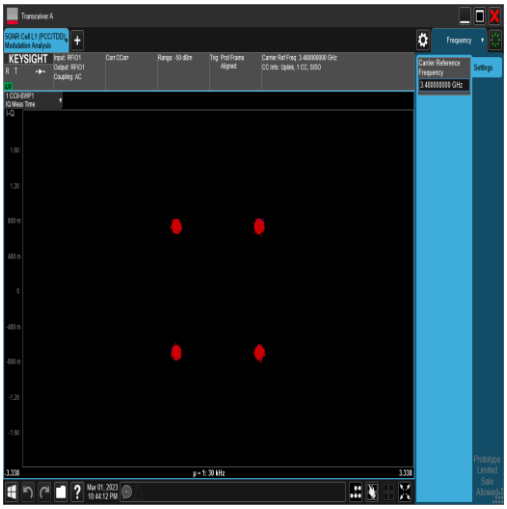
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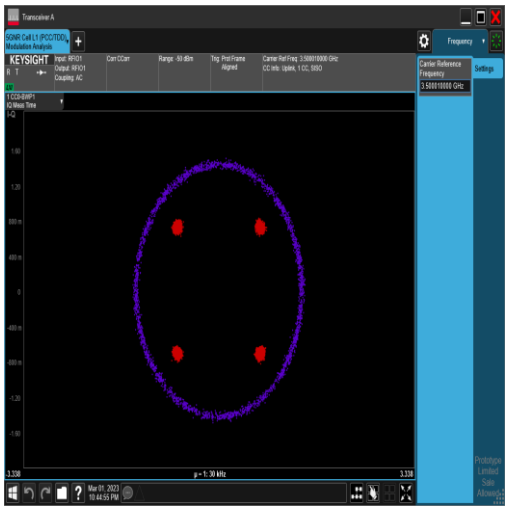	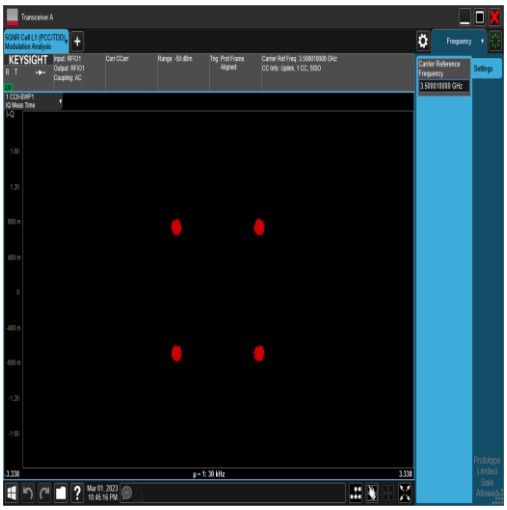
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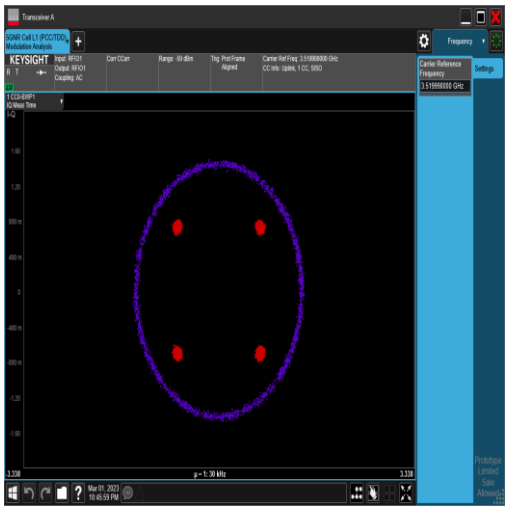	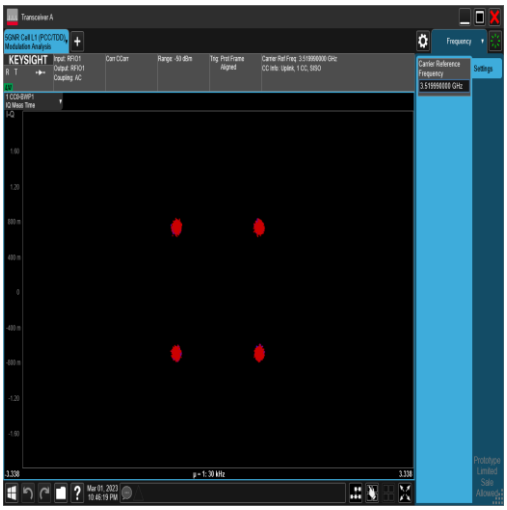
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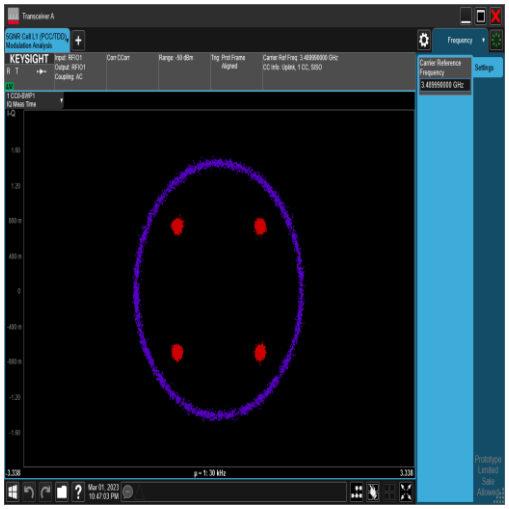	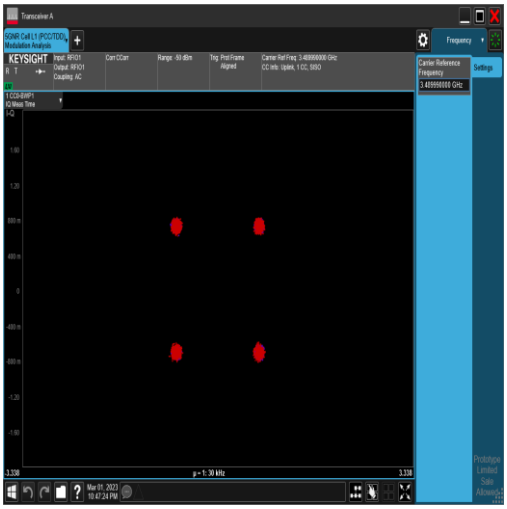
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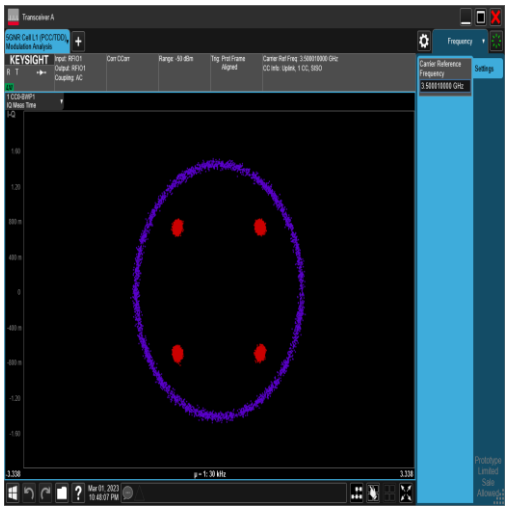	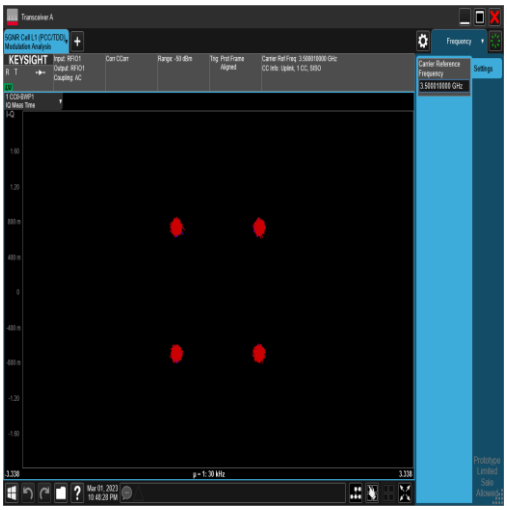
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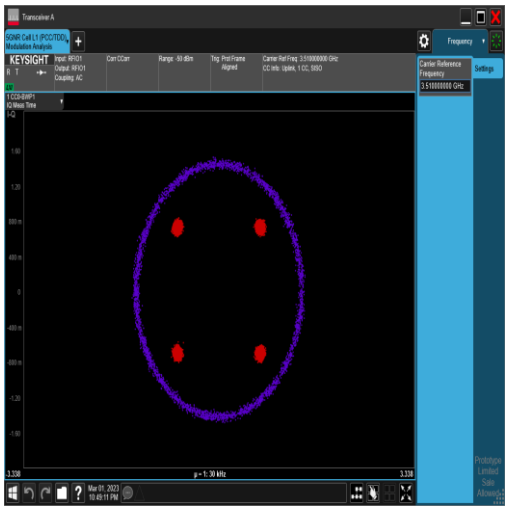	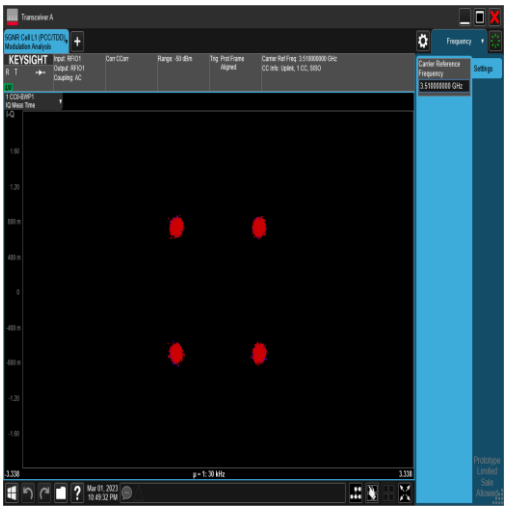
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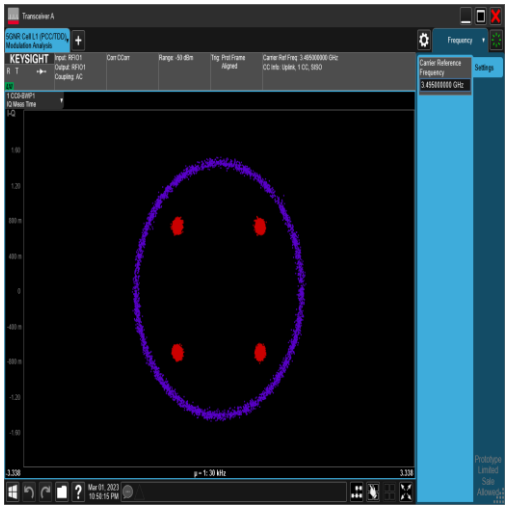	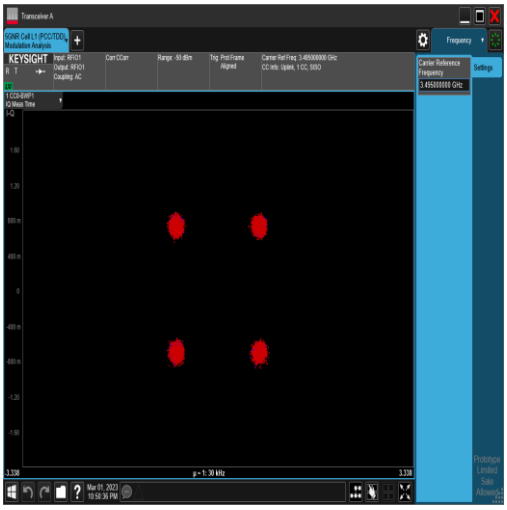
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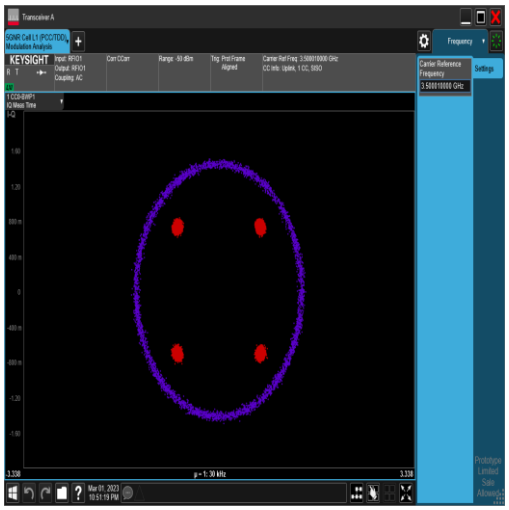	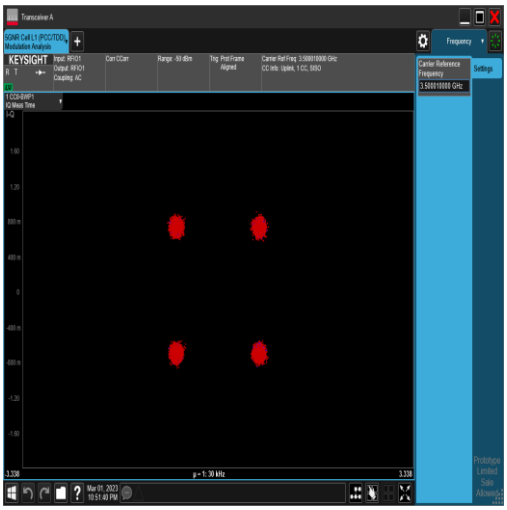
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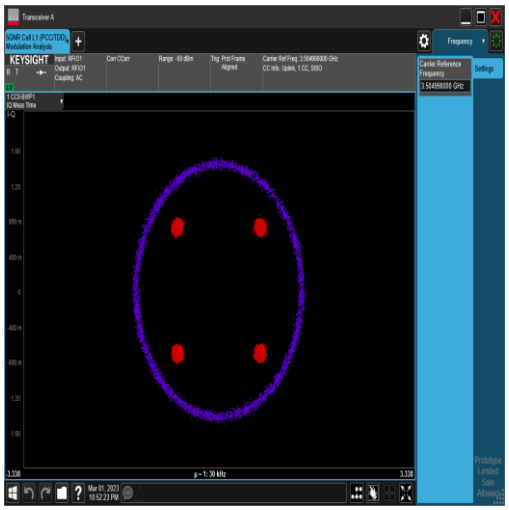	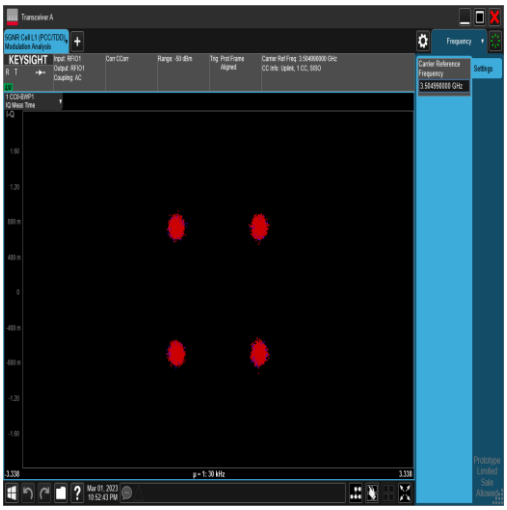
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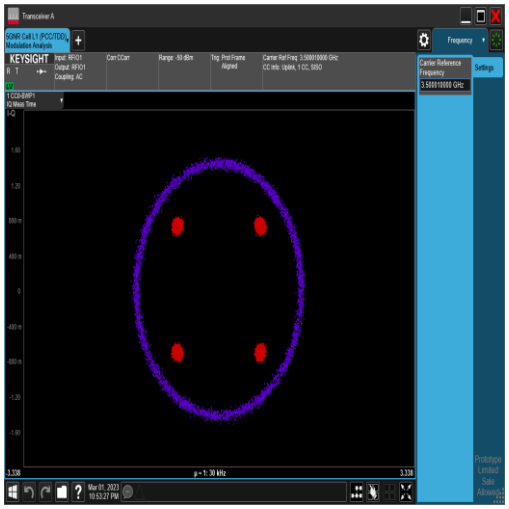	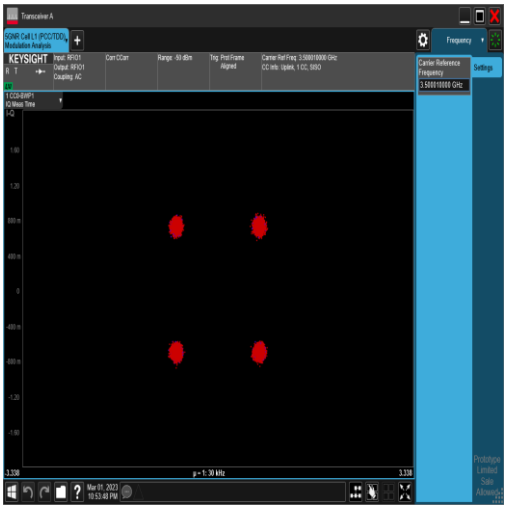
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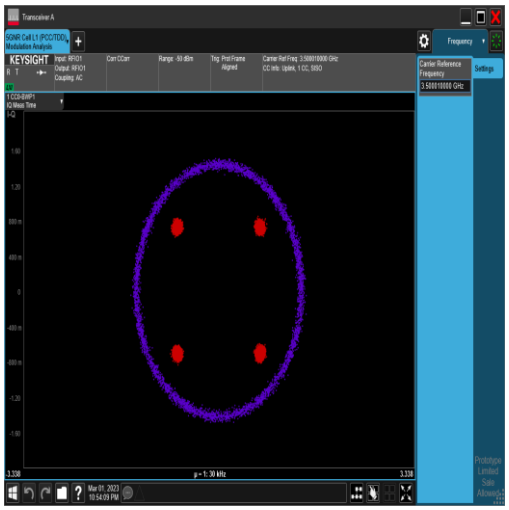	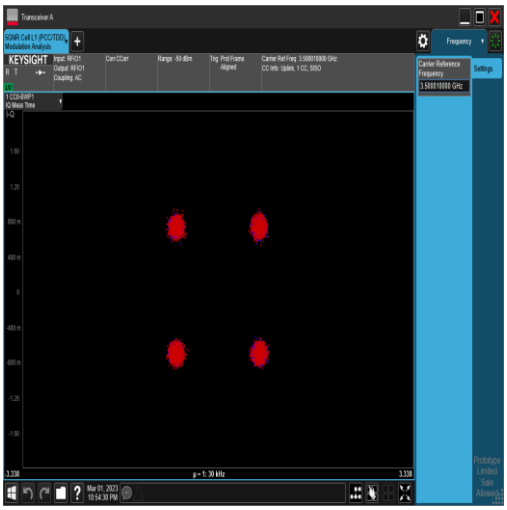
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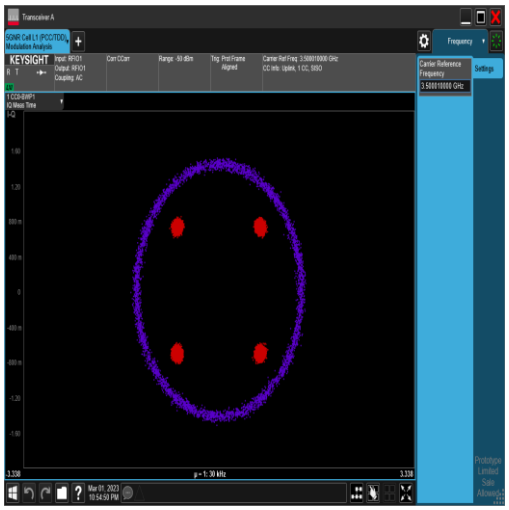	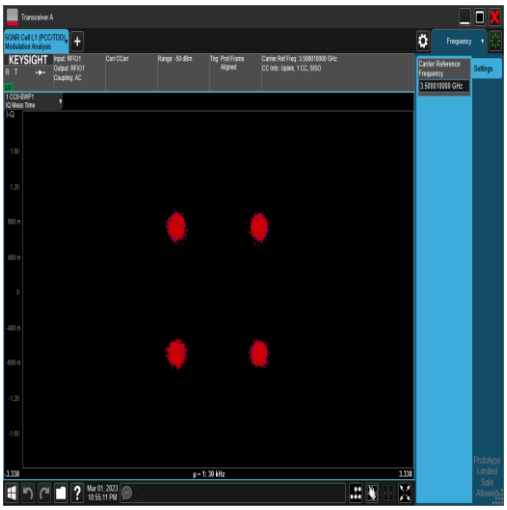
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