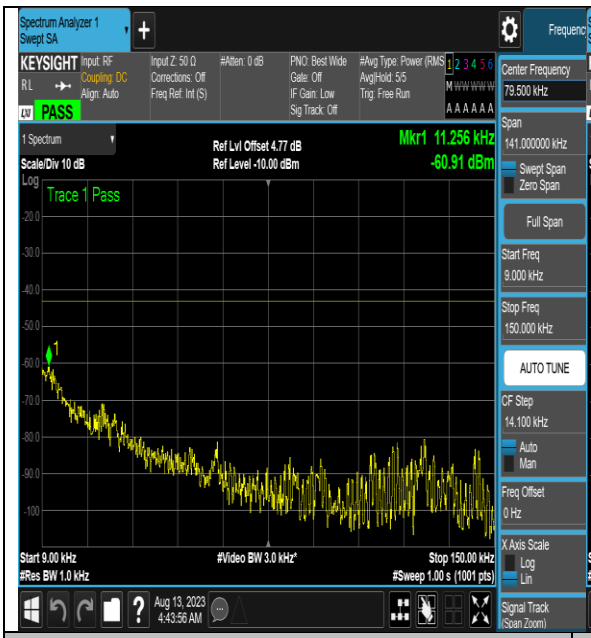

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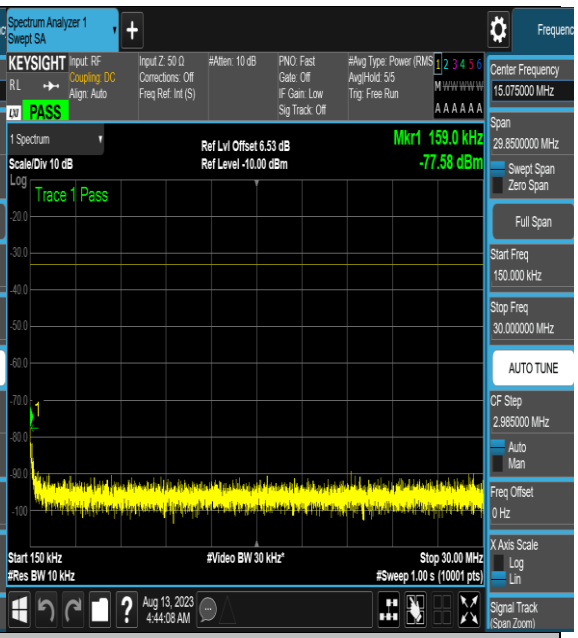

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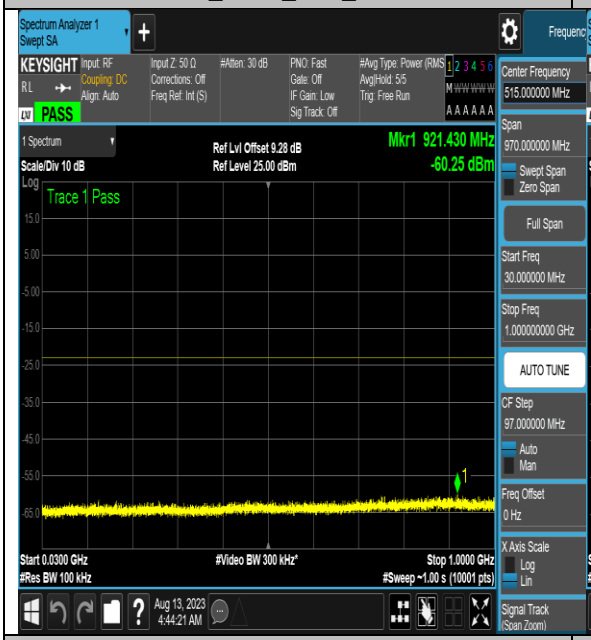

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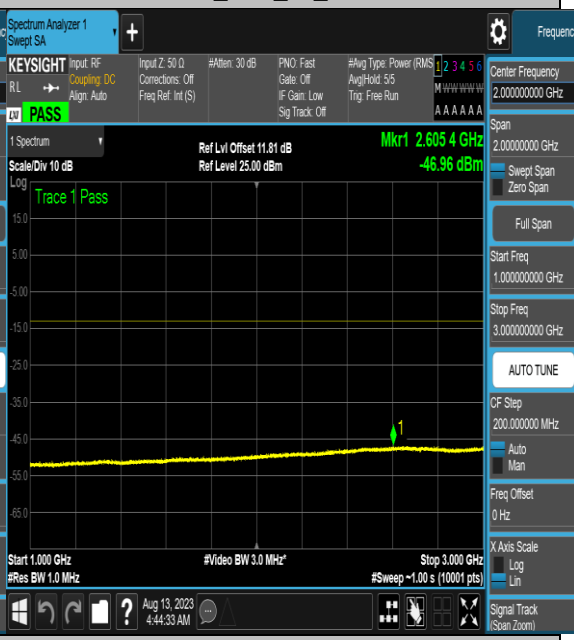

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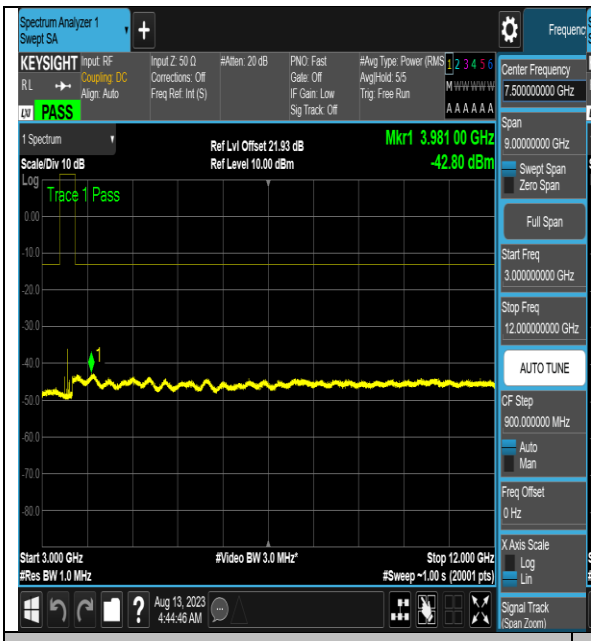

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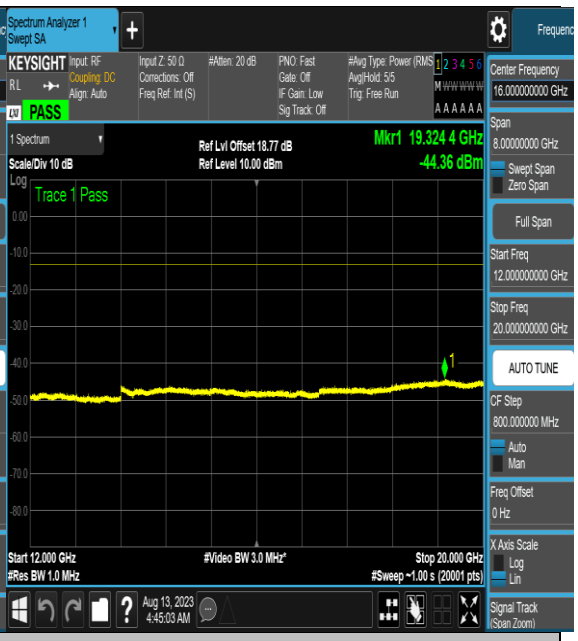

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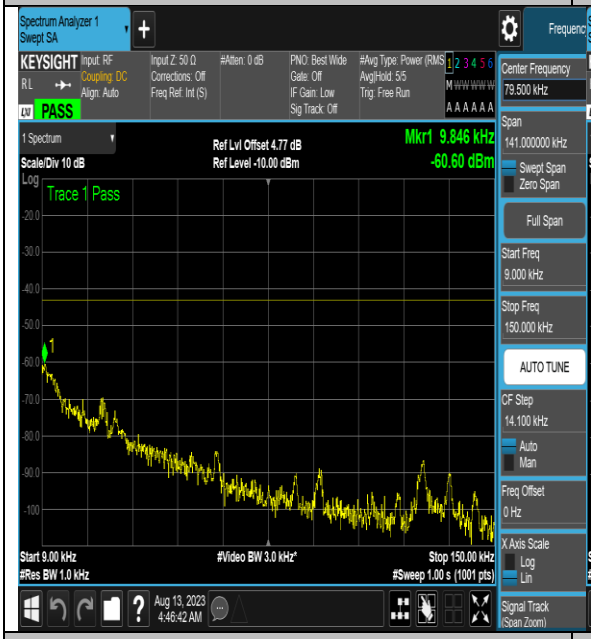

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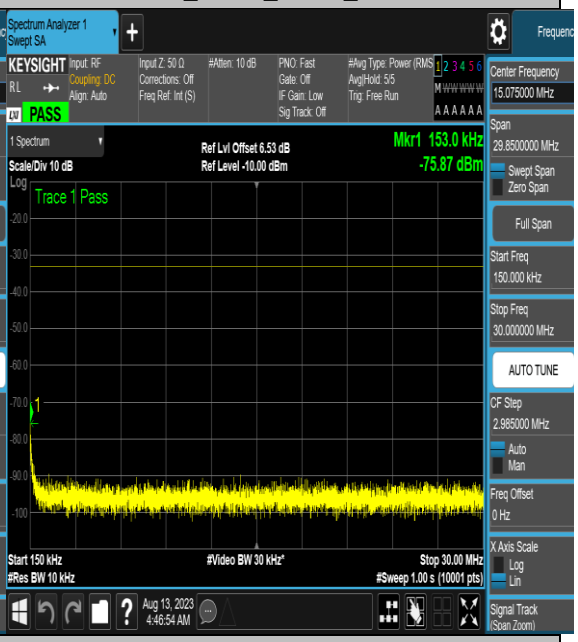

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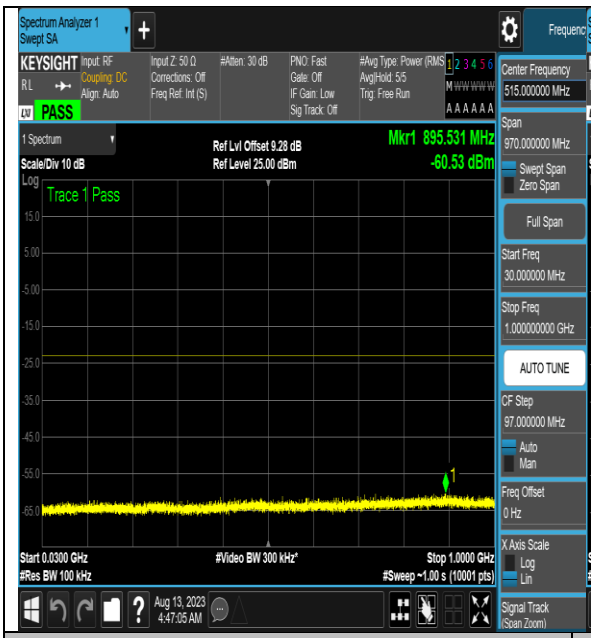

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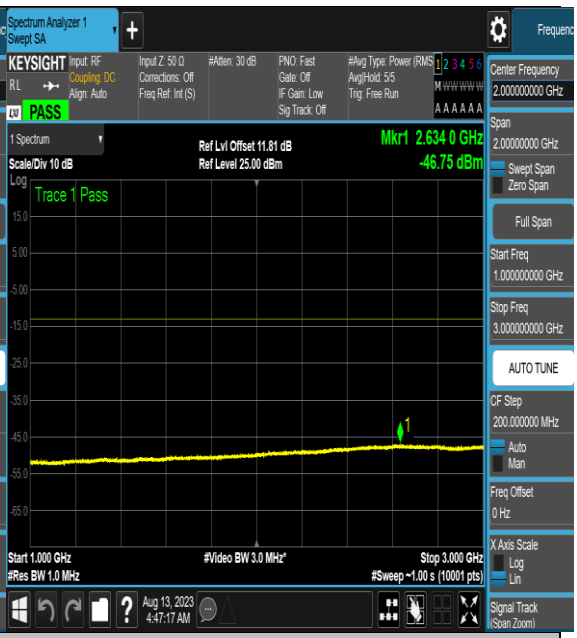

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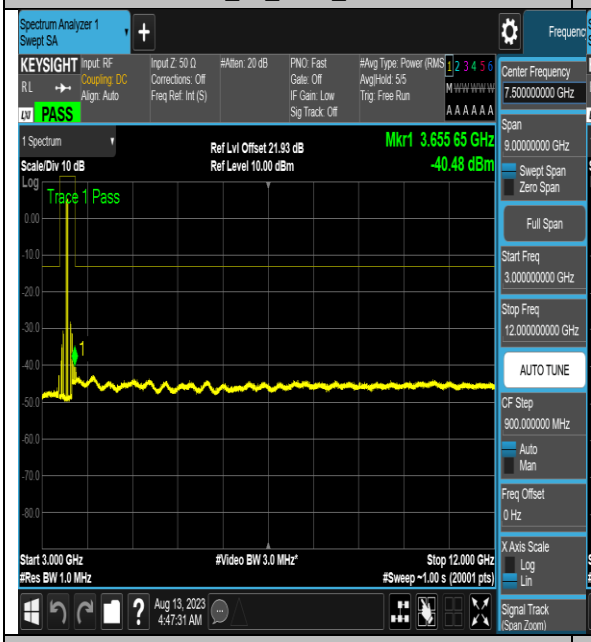

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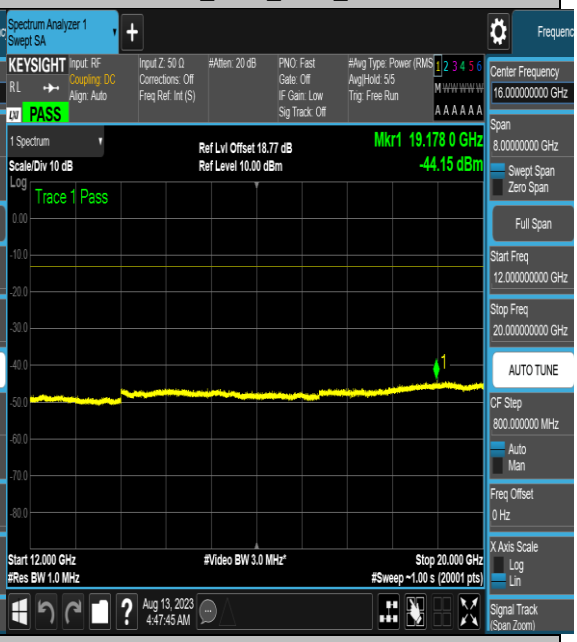

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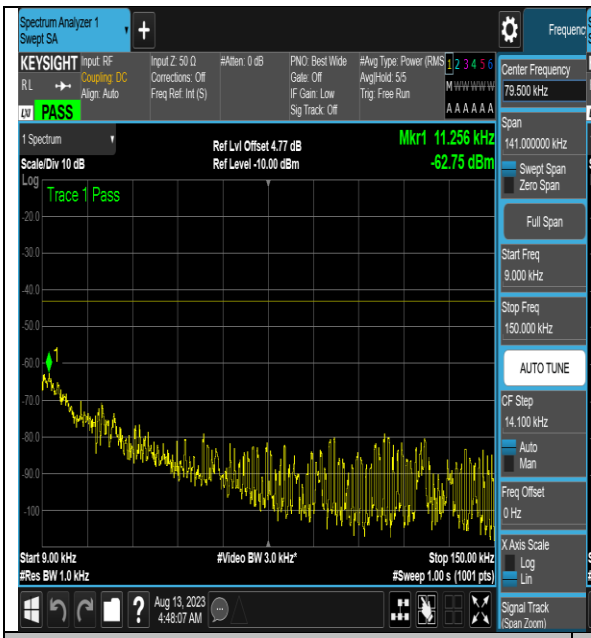

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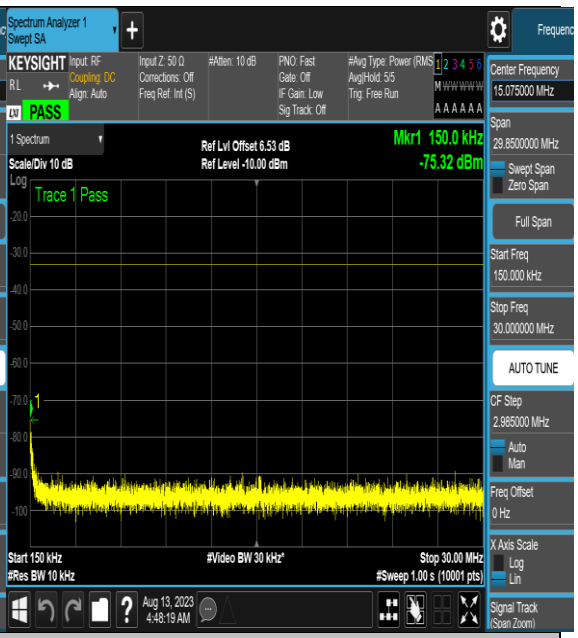

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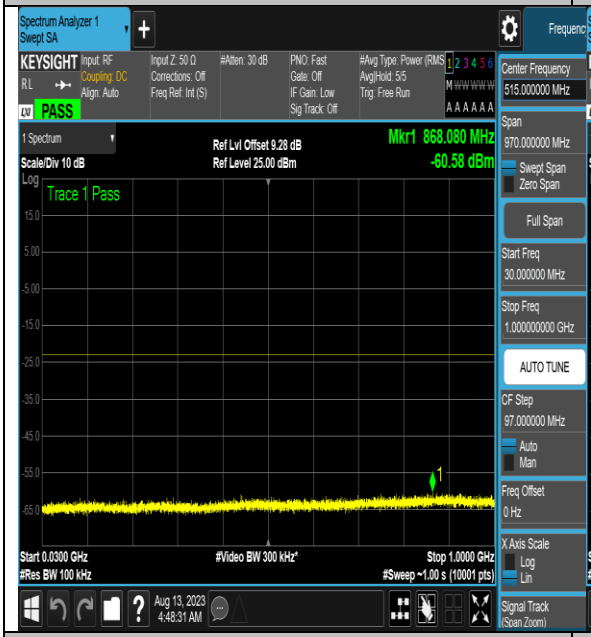

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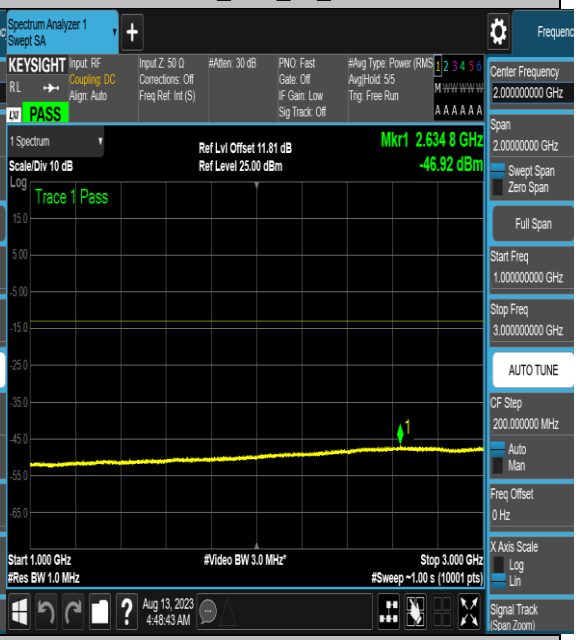

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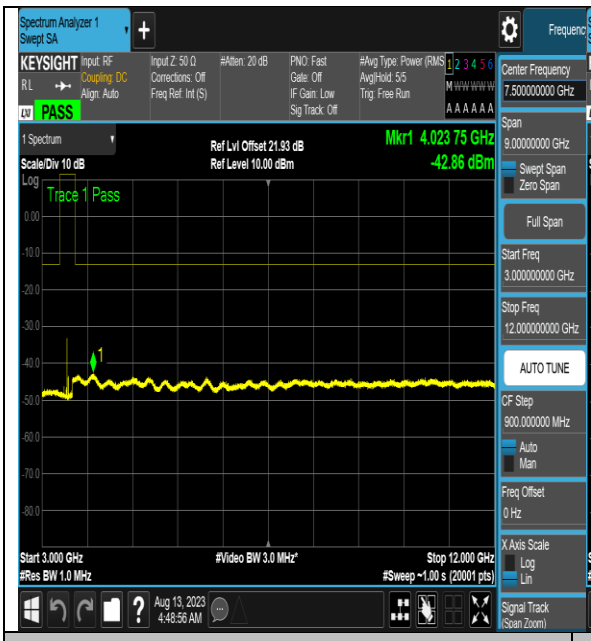

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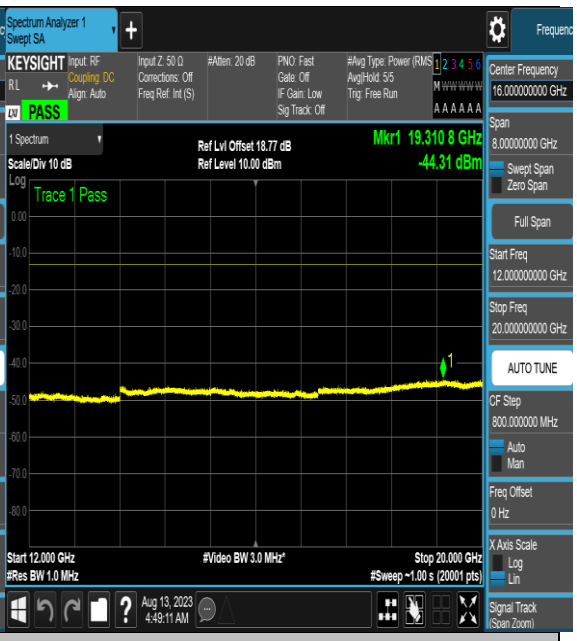

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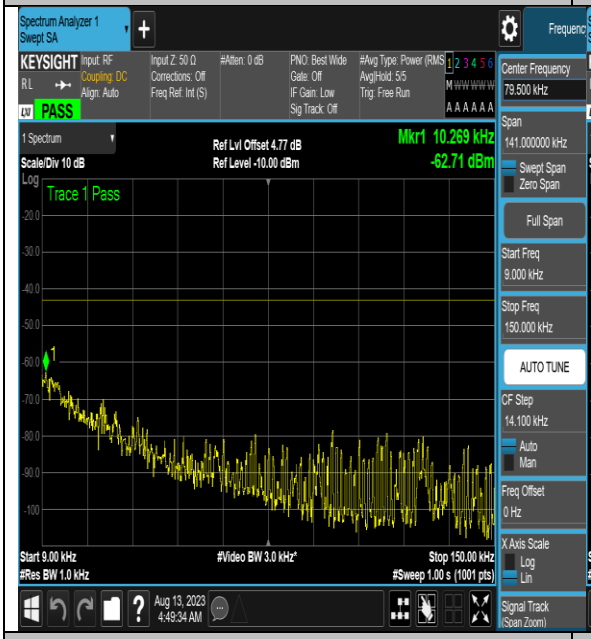

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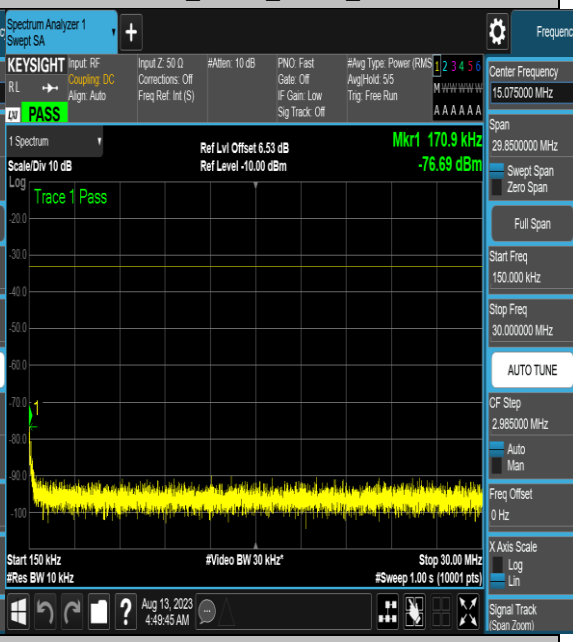

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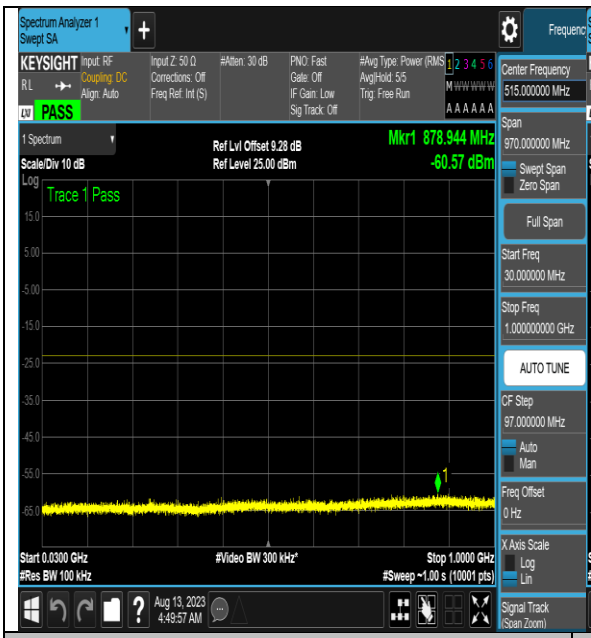

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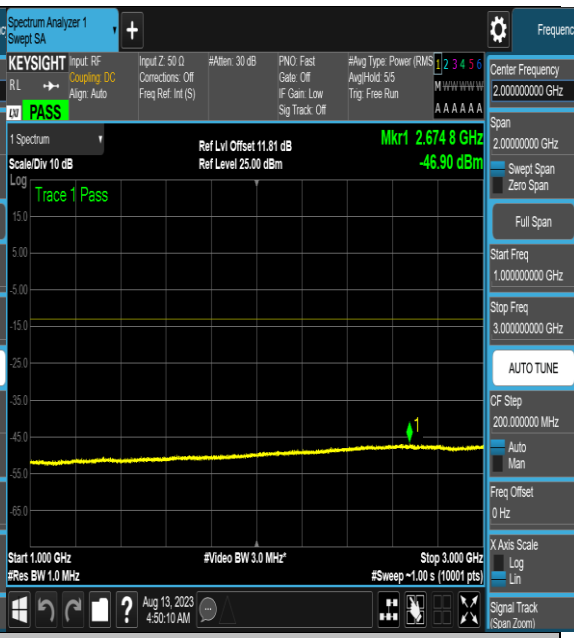

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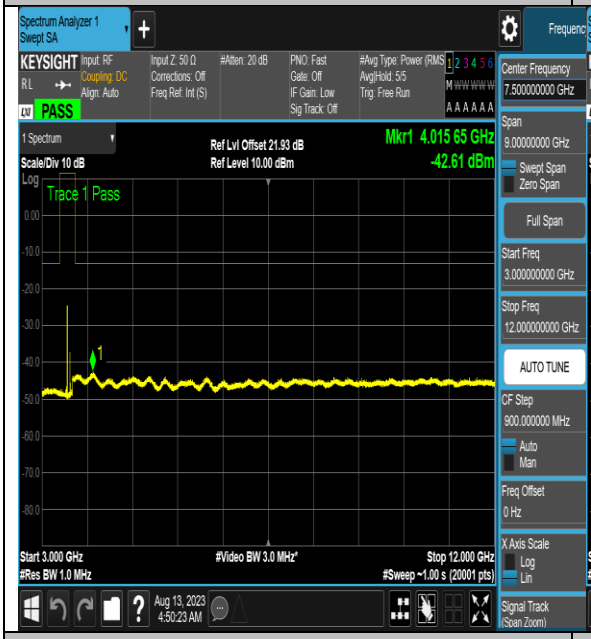

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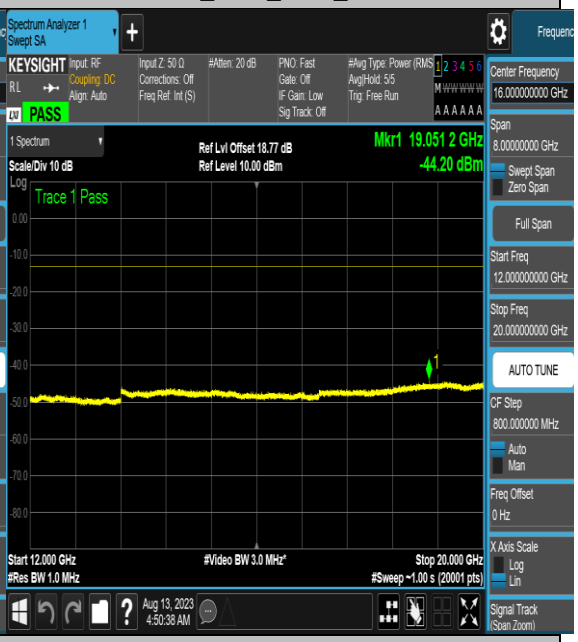


NTNV_N78-3450-3550_PC2_30_100_H_TID17_N/A_12000_20000_#1

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	VL	NT	4.03	0.00	PASS
N78-3450-3550	30	20	DFT-QPSK	L	Outer_Full	VN	NT	1.66	0.00	PASS
N78-3450-3550	30	20	DFT-QPSK	L	Outer_Full	VH	NT	-4.13	0.00	PASS
N78-3450-3550	30	20	CP-QPSK	L	Outer_Full	VL	NT	-5.73	0.00	PASS
N78-3450-3550	30	20	CP-QPSK	L	Outer_Full	VN	NT	-6.23	0.00	PASS
N78-3450-3550	30	20	CP-QPSK	L	Outer_Full	VH	NT	-12.58	0.00	PASS
N78-3450-3550	30	20	DFT-QPSK	M	Outer_Full	VL	NT	-16.13	0.00	PASS
N78-3450-3550	30	20	DFT-QPSK	M	Outer_Full	VN	NT	-4.30	0.00	PASS
N78-3450-3550	30	20	DFT-QPSK	M	Outer_Full	VH	NT	-3.15	0.00	PASS
N78-3450-3550	30	20	CP-QPSK	M	Outer_Full	VL	NT	-6.99	0.00	PASS
N78-3450-3550	30	20	CP-QPSK	M	Outer_Full	VN	NT	-13.68	0.00	PASS
N78-3450-3550	30	20	CP-QPSK	M	Outer_Full	VH	NT	-11.85	0.00	PASS
N78-3450-3550	30	20	DFT-QPSK	H	Outer_Full	VL	NT	-2.13	0.00	PASS
N78-3450-3550	30	20	DFT-QPSK	H	Outer_Full	VN	NT	-11.58	0.00	PASS
N78-3450-3550	30	20	DFT-QPSK	H	Outer_Full	VH	NT	-10.45	0.00	PASS
N78-3450-3550	30	20	CP-QPSK	H	Outer_Full	VL	NT	-8.06	0.00	PASS
N78-345	30	20	CP-QPSK	H	Outer_Full	VN	NT	-0.06	0.00	PASS

0-3550										
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	VH	NT	-8.44	0.00	PASS
N78-345 0-3550	30	40	DFT-QPSK	L	Outer_Full	VL	NT	-10.65	0.00	PASS
N78-345 0-3550	30	40	DFT-QPSK	L	Outer_Full	VN	NT	-14.51	0.00	PASS
N78-345 0-3550	30	40	DFT-QPSK	L	Outer_Full	VH	NT	3.76	0.00	PASS
N78-345 0-3550	30	40	CP-QPSK	L	Outer_Full	VL	NT	-3.79	0.00	PASS
N78-345 0-3550	30	40	CP-QPSK	L	Outer_Full	VN	NT	1.83	0.00	PASS
N78-345 0-3550	30	40	CP-QPSK	L	Outer_Full	VH	NT	-18.44	-0.01	PASS
N78-345 0-3550	30	40	DFT-QPSK	M	Outer_Full	VL	NT	-25.39	-0.01	PASS
N78-345 0-3550	30	40	DFT-QPSK	M	Outer_Full	VN	NT	-9.73	0.00	PASS
N78-345 0-3550	30	40	DFT-QPSK	M	Outer_Full	VH	NT	1.65	0.00	PASS
N78-345 0-3550	30	40	CP-QPSK	M	Outer_Full	VL	NT	5.61	0.00	PASS
N78-345 0-3550	30	40	CP-QPSK	M	Outer_Full	VN	NT	-5.67	0.00	PASS
N78-345 0-3550	30	40	CP-QPSK	M	Outer_Full	VH	NT	-8.67	0.00	PASS
N78-345 0-3550	30	40	DFT-QPSK	H	Outer_Full	VL	NT	0.55	0.00	PASS
N78-345 0-3550	30	40	DFT-QPSK	H	Outer_Full	VN	NT	10.38	0.00	PASS
N78-345 0-3550	30	40	DFT-QPSK	H	Outer_Full	VH	NT	-5.71	0.00	PASS
N78-345 0-3550	30	40	CP-QPSK	H	Outer_Full	VL	NT	1.67	0.00	PASS
N78-345 0-3550	30	40	CP-QPSK	H	Outer_Full	VN	NT	-10.35	0.00	PASS
N78-345 0-3550	30	40	CP-QPSK	H	Outer_Full	VH	NT	-12.51	0.00	PASS
N78-345 0-3550	30	50	DFT-QPSK	L	Outer_Full	VL	NT	10.82	0.00	PASS
N78-345	30	50	DFT-QPSK	L	Outer_Full	VN	NT	12.98	0.00	PASS

0-3550										
N78-345 0-3550	30	50	DFT-QPSK	L	Outer_Full	VH	NT	-5.54	0.00	PASS
N78-345 0-3550	30	50	CP-QPSK	L	Outer_Full	VL	NT	-15.75	0.00	PASS
N78-345 0-3550	30	50	CP-QPSK	L	Outer_Full	VN	NT	-2.37	0.00	PASS
N78-345 0-3550	30	50	CP-QPSK	L	Outer_Full	VH	NT	-11.18	0.00	PASS
N78-345 0-3550	30	50	DFT-QPSK	M	Outer_Full	VL	NT	-8.84	0.00	PASS
N78-345 0-3550	30	50	DFT-QPSK	M	Outer_Full	VN	NT	5.84	0.00	PASS
N78-345 0-3550	30	50	DFT-QPSK	M	Outer_Full	VH	NT	-0.67	0.00	PASS
N78-345 0-3550	30	50	CP-QPSK	M	Outer_Full	VL	NT	-9.55	0.00	PASS
N78-345 0-3550	30	50	CP-QPSK	M	Outer_Full	VN	NT	-6.21	0.00	PASS
N78-345 0-3550	30	50	CP-QPSK	M	Outer_Full	VH	NT	-7.44	0.00	PASS
N78-345 0-3550	30	50	DFT-QPSK	H	Outer_Full	VL	NT	-6.57	0.00	PASS
N78-345 0-3550	30	50	DFT-QPSK	H	Outer_Full	VN	NT	-1.51	0.00	PASS
N78-345 0-3550	30	50	DFT-QPSK	H	Outer_Full	VH	NT	-11.64	0.00	PASS
N78-345 0-3550	30	50	CP-QPSK	H	Outer_Full	VL	NT	-10.74	0.00	PASS
N78-345 0-3550	30	50	CP-QPSK	H	Outer_Full	VN	NT	-17.33	0.00	PASS
N78-345 0-3550	30	50	CP-QPSK	H	Outer_Full	VH	NT	6.34	0.00	PASS
N78-345 0-3550	30	60	DFT-QPSK	L	Outer_Full	VL	NT	0.08	0.00	PASS
N78-345 0-3550	30	60	DFT-QPSK	L	Outer_Full	VN	NT	-16.56	0.00	PASS
N78-345 0-3550	30	60	DFT-QPSK	L	Outer_Full	VH	NT	-4.34	0.00	PASS
N78-345 0-3550	30	60	CP-QPSK	L	Outer_Full	VL	NT	-9.64	0.00	PASS
N78-345	30	60	CP-QPSK	L	Outer_Full	VN	NT	-1.92	0.00	PASS

0-3550										
N78-345 0-3550	30	60	CP-QPSK	L	Outer_Full	VH	NT	2.57	0.00	PASS
N78-345 0-3550	30	60	DFT-QPSK	M	Outer_Full	VL	NT	-1.66	0.00	PASS
N78-345 0-3550	30	60	DFT-QPSK	M	Outer_Full	VN	NT	-8.65	0.00	PASS
N78-345 0-3550	30	60	DFT-QPSK	M	Outer_Full	VH	NT	4.83	0.00	PASS
N78-345 0-3550	30	60	CP-QPSK	M	Outer_Full	VL	NT	-11.71	0.00	PASS
N78-345 0-3550	30	60	CP-QPSK	M	Outer_Full	VN	NT	11.77	0.00	PASS
N78-345 0-3550	30	60	CP-QPSK	M	Outer_Full	VH	NT	-3.35	0.00	PASS
N78-345 0-3550	30	60	DFT-QPSK	H	Outer_Full	VL	NT	-1.91	0.00	PASS
N78-345 0-3550	30	60	DFT-QPSK	H	Outer_Full	VN	NT	12.29	0.00	PASS
N78-345 0-3550	30	60	DFT-QPSK	H	Outer_Full	VH	NT	0.88	0.00	PASS
N78-345 0-3550	30	60	CP-QPSK	H	Outer_Full	VL	NT	-17.91	-0.01	PASS
N78-345 0-3550	30	60	CP-QPSK	H	Outer_Full	VN	NT	-13.39	0.00	PASS
N78-345 0-3550	30	60	CP-QPSK	H	Outer_Full	VH	NT	3.59	0.00	PASS
N78-345 0-3550	30	80	DFT-QPSK	L	Outer_Full	VL	NT	-22.71	-0.01	PASS
N78-345 0-3550	30	80	DFT-QPSK	L	Outer_Full	VN	NT	-20.40	-0.01	PASS
N78-345 0-3550	30	80	DFT-QPSK	L	Outer_Full	VH	NT	-6.62	0.00	PASS
N78-345 0-3550	30	80	CP-QPSK	L	Outer_Full	VL	NT	12.12	0.00	PASS
N78-345 0-3550	30	80	CP-QPSK	L	Outer_Full	VN	NT	-18.25	-0.01	PASS
N78-345 0-3550	30	80	CP-QPSK	L	Outer_Full	VH	NT	-8.44	0.00	PASS
N78-345 0-3550	30	80	DFT-QPSK	M	Outer_Full	VL	NT	-12.78	0.00	PASS
N78-345	30	80	DFT-QPSK	M	Outer_Full	VN	NT	-9.34	0.00	PASS

0-3550										
N78-345 0-3550	30	80	DFT-QPSK	M	Outer_Full	VH	NT	-7.56	0.00	PASS
N78-345 0-3550	30	80	CP-QPSK	M	Outer_Full	VL	NT	-19.89	-0.01	PASS
N78-345 0-3550	30	80	CP-QPSK	M	Outer_Full	VN	NT	-4.06	0.00	PASS
N78-345 0-3550	30	80	CP-QPSK	M	Outer_Full	VH	NT	-8.69	0.00	PASS
N78-345 0-3550	30	80	DFT-QPSK	H	Outer_Full	VL	NT	-0.04	0.00	PASS
N78-345 0-3550	30	80	DFT-QPSK	H	Outer_Full	VN	NT	-7.07	0.00	PASS
N78-345 0-3550	30	80	DFT-QPSK	H	Outer_Full	VH	NT	4.93	0.00	PASS
N78-345 0-3550	30	80	CP-QPSK	H	Outer_Full	VL	NT	-4.50	0.00	PASS
N78-345 0-3550	30	80	CP-QPSK	H	Outer_Full	VN	NT	5.28	0.00	PASS
N78-345 0-3550	30	80	CP-QPSK	H	Outer_Full	VH	NT	-4.34	0.00	PASS
N78-345 0-3550	30	90	DFT-QPSK	L	Outer_Full	VL	NT	5.19	0.00	PASS
N78-345 0-3550	30	90	DFT-QPSK	L	Outer_Full	VN	NT	9.19	0.00	PASS
N78-345 0-3550	30	90	DFT-QPSK	L	Outer_Full	VH	NT	2.98	0.00	PASS
N78-345 0-3550	30	90	CP-QPSK	L	Outer_Full	VL	NT	-1.61	0.00	PASS
N78-345 0-3550	30	90	CP-QPSK	L	Outer_Full	VN	NT	5.11	0.00	PASS
N78-345 0-3550	30	90	CP-QPSK	L	Outer_Full	VH	NT	-9.97	0.00	PASS
N78-345 0-3550	30	90	DFT-QPSK	M	Outer_Full	VL	NT	0.35	0.00	PASS
N78-345 0-3550	30	90	DFT-QPSK	M	Outer_Full	VN	NT	-3.57	0.00	PASS
N78-345 0-3550	30	90	DFT-QPSK	M	Outer_Full	VH	NT	-0.20	0.00	PASS
N78-345 0-3550	30	90	CP-QPSK	M	Outer_Full	VL	NT	5.48	0.00	PASS
N78-345	30	90	CP-QPSK	M	Outer_Full	VN	NT	-3.74	0.00	PASS

0-3550										
N78-345 0-3550	30	90	CP-QPSK	M	Outer_Full	VH	NT	-2.16	0.00	PASS
N78-345 0-3550	30	90	DFT-QPSK	H	Outer_Full	VL	NT	-11.46	0.00	PASS
N78-345 0-3550	30	90	DFT-QPSK	H	Outer_Full	VN	NT	-11.70	0.00	PASS
N78-345 0-3550	30	90	DFT-QPSK	H	Outer_Full	VH	NT	-19.81	-0.01	PASS
N78-345 0-3550	30	90	CP-QPSK	H	Outer_Full	VL	NT	-11.33	0.00	PASS
N78-345 0-3550	30	90	CP-QPSK	H	Outer_Full	VN	NT	-14.58	0.00	PASS
N78-345 0-3550	30	90	CP-QPSK	H	Outer_Full	VH	NT	-7.85	0.00	PASS
N78-345 0-3550	30	100	DFT-QPSK	L	Outer_Full	VL	NT	6.99	0.00	PASS
N78-345 0-3550	30	100	DFT-QPSK	L	Outer_Full	VN	NT	14.88	0.00	PASS
N78-345 0-3550	30	100	DFT-QPSK	L	Outer_Full	VH	NT	3.31	0.00	PASS
N78-345 0-3550	30	100	CP-QPSK	L	Outer_Full	VL	NT	2.47	0.00	PASS
N78-345 0-3550	30	100	CP-QPSK	L	Outer_Full	VN	NT	0.27	0.00	PASS
N78-345 0-3550	30	100	CP-QPSK	L	Outer_Full	VH	NT	7.92	0.00	PASS
N78-345 0-3550	30	100	DFT-QPSK	M	Outer_Full	VL	NT	-6.41	0.00	PASS
N78-345 0-3550	30	100	DFT-QPSK	M	Outer_Full	VN	NT	8.64	0.00	PASS
N78-345 0-3550	30	100	DFT-QPSK	M	Outer_Full	VH	NT	11.07	0.00	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	VL	NT	-22.62	-0.01	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	VN	NT	-3.91	0.00	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	VH	NT	-4.40	0.00	PASS
N78-345 0-3550	30	100	DFT-QPSK	H	Outer_Full	VL	NT	0.81	0.00	PASS
N78-345	30	100	DFT-QPSK	H	Outer_Full	VN	NT	-2.58	0.00	PASS

0-3550										
N78-345 0-3550	30	100	DFT-QPSK	H	Outer_Full	VH	NT	-8.61	0.00	PASS
N78-345 0-3550	30	100	CP-QPSK	H	Outer_Full	VL	NT	-3.62	0.00	PASS
N78-345 0-3550	30	100	CP-QPSK	H	Outer_Full	VN	NT	8.76	0.00	PASS
N78-345 0-3550	30	100	CP-QPSK	H	Outer_Full	VH	NT	7.75	0.00	PASS

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N78-345 0-3550	30	20	DFT-QPSK	L	Outer_Full	NV	-30	-24.038773	-0.006948	PASS
N78-345 0-3550	30	20	DFT-QPSK	L	Outer_Full	NV	-20	-3.610546	-0.001044	PASS
N78-345 0-3550	30	20	DFT-QPSK	L	Outer_Full	NV	-10	-14.189400	-0.004101	PASS
N78-345 0-3550	30	20	DFT-QPSK	L	Outer_Full	NV	0	-3.114246	-0.000900	PASS
N78-345 0-3550	30	20	DFT-QPSK	L	Outer_Full	NV	10	-1.028856	-0.000297	PASS
N78-345 0-3550	30	20	DFT-QPSK	L	Outer_Full	NV	20	8.871170	0.002564	PASS
N78-345 0-3550	30	20	DFT-QPSK	L	Outer_Full	NV	30	-19.968702	-0.005771	PASS
N78-345 0-3550	30	20	DFT-QPSK	L	Outer_Full	NV	40	2.563217	0.000741	PASS
N78-345 0-3550	30	20	DFT-QPSK	L	Outer_Full	NV	50	-16.854099	-0.004871	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	-30	-19.663218	-0.005683	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	-20	2.773509	0.000802	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	-10	-14.233272	-0.004114	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	0	-7.398814	-0.002138	PASS

N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	10	-8.691229	-0.002512	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	20	0.894580	0.000259	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	30	-8.331104	-0.002408	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	40	-4.321269	-0.001249	PASS
N78-345 0-3550	30	20	CP-QPSK	L	Outer_Full	NV	50	-17.887856	-0.005170	PASS
N78-345 0-3550	30	20	DFT-QPSK	M	Outer_Full	NV	-30	-7.997679	-0.002285	PASS
N78-345 0-3550	30	20	DFT-QPSK	M	Outer_Full	NV	-20	-10.288257	-0.002939	PASS
N78-345 0-3550	30	20	DFT-QPSK	M	Outer_Full	NV	-10	4.032218	0.001152	PASS
N78-345 0-3550	30	20	DFT-QPSK	M	Outer_Full	NV	0	-2.540379	-0.000726	PASS
N78-345 0-3550	30	20	DFT-QPSK	M	Outer_Full	NV	10	-11.803446	-0.003372	PASS
N78-345 0-3550	30	20	DFT-QPSK	M	Outer_Full	NV	20	-5.998955	-0.001714	PASS
N78-345 0-3550	30	20	DFT-QPSK	M	Outer_Full	NV	30	-7.137263	-0.002039	PASS
N78-345 0-3550	30	20	DFT-QPSK	M	Outer_Full	NV	40	-15.130070	-0.004323	PASS
N78-345 0-3550	30	20	DFT-QPSK	M	Outer_Full	NV	50	-5.725561	-0.001636	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	-30	0.322442	0.000092	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	-20	-1.851175	-0.000529	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	-10	-0.653570	-0.000187	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	0	-1.290647	-0.000369	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	10	-10.602594	-0.003029	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	20	-9.285595	-0.002653	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	30	-18.180513	-0.005194	PASS

N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	40	-5.416083	-0.001547	PASS
N78-345 0-3550	30	20	CP-QPSK	M	Outer_Full	NV	50	-2.414341	-0.000690	PASS
N78-345 0-3550	30	20	DFT-QPSK	H	Outer_Full	NV	-30	-8.328963	-0.002353	PASS
N78-345 0-3550	30	20	DFT-QPSK	H	Outer_Full	NV	-20	-5.238010	-0.001480	PASS
N78-345 0-3550	30	20	DFT-QPSK	H	Outer_Full	NV	-10	-6.420479	-0.001814	PASS
N78-345 0-3550	30	20	DFT-QPSK	H	Outer_Full	NV	0	1.727416	0.000488	PASS
N78-345 0-3550	30	20	DFT-QPSK	H	Outer_Full	NV	10	-6.442682	-0.001820	PASS
N78-345 0-3550	30	20	DFT-QPSK	H	Outer_Full	NV	20	-6.441037	-0.001820	PASS
N78-345 0-3550	30	20	DFT-QPSK	H	Outer_Full	NV	30	-7.014126	-0.001981	PASS
N78-345 0-3550	30	20	DFT-QPSK	H	Outer_Full	NV	40	-8.133753	-0.002298	PASS
N78-345 0-3550	30	20	DFT-QPSK	H	Outer_Full	NV	50	2.028888	0.000573	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	-30	1.356584	0.000383	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	-20	-7.146111	-0.002019	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	-10	-1.583544	-0.000447	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	0	3.626369	0.001024	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	10	-4.191409	-0.001184	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	20	0.395579	0.000112	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	30	-3.904056	-0.001103	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	40	-10.295471	-0.002908	PASS
N78-345 0-3550	30	20	CP-QPSK	H	Outer_Full	NV	50	4.856050	0.001372	PASS
N78-345 0-3550	30	40	DFT-QPSK	L	Outer_Full	NV	-30	-9.965513	-0.002872	PASS

N78-3450-3550	30	40	DFT-QPSK	L	Outer_Full	NV	-20	-14.398277	-0.004149	PASS
N78-3450-3550	30	40	DFT-QPSK	L	Outer_Full	NV	-10	-13.882066	-0.004001	PASS
N78-3450-3550	30	40	DFT-QPSK	L	Outer_Full	NV	0	-6.165510	-0.001777	PASS
N78-3450-3550	30	40	DFT-QPSK	L	Outer_Full	NV	10	2.506578	0.000722	PASS
N78-3450-3550	30	40	DFT-QPSK	L	Outer_Full	NV	20	-6.406441	-0.001846	PASS
N78-3450-3550	30	40	DFT-QPSK	L	Outer_Full	NV	30	5.752043	0.001658	PASS
N78-3450-3550	30	40	DFT-QPSK	L	Outer_Full	NV	40	-3.899743	-0.001124	PASS
N78-3450-3550	30	40	DFT-QPSK	L	Outer_Full	NV	50	-17.196007	-0.004956	PASS
N78-3450-3550	30	40	CP-QPSK	L	Outer_Full	NV	-30	-13.363099	-0.003851	PASS
N78-3450-3550	30	40	CP-QPSK	L	Outer_Full	NV	-20	-18.144121	-0.005229	PASS
N78-3450-3550	30	40	CP-QPSK	L	Outer_Full	NV	-10	-2.420063	-0.000697	PASS
N78-3450-3550	30	40	CP-QPSK	L	Outer_Full	NV	0	-16.868074	-0.004861	PASS
N78-3450-3550	30	40	CP-QPSK	L	Outer_Full	NV	10	-10.138663	-0.002922	PASS
N78-3450-3550	30	40	CP-QPSK	L	Outer_Full	NV	20	2.688994	0.000775	PASS
N78-3450-3550	30	40	CP-QPSK	L	Outer_Full	NV	30	-13.055321	-0.003762	PASS
N78-3450-3550	30	40	CP-QPSK	L	Outer_Full	NV	40	3.870521	0.001115	PASS
N78-3450-3550	30	40	CP-QPSK	L	Outer_Full	NV	50	1.676136	0.000483	PASS
N78-3450-3550	30	40	DFT-QPSK	M	Outer_Full	NV	-30	-10.489482	-0.002997	PASS
N78-3450-3550	30	40	DFT-QPSK	M	Outer_Full	NV	-20	-4.219314	-0.001206	PASS
N78-3450-3550	30	40	DFT-QPSK	M	Outer_Full	NV	-10	-14.367672	-0.004105	PASS
N78-3450-3550	30	40	DFT-QPSK	M	Outer_Full	NV	0	-1.062724	-0.000304	PASS

N78-3450-3550	30	40	DFT-QPSK	M	Outer_Full	NV	10	-11.247684	-0.003214	PASS
N78-3450-3550	30	40	DFT-QPSK	M	Outer_Full	NV	20	-1.247681	-0.000356	PASS
N78-3450-3550	30	40	DFT-QPSK	M	Outer_Full	NV	30	1.019824	0.000291	PASS
N78-3450-3550	30	40	DFT-QPSK	M	Outer_Full	NV	40	-4.915128	-0.001404	PASS
N78-3450-3550	30	40	DFT-QPSK	M	Outer_Full	NV	50	0.737501	0.000211	PASS
N78-3450-3550	30	40	CP-QPSK	M	Outer_Full	NV	-30	-9.167529	-0.002619	PASS
N78-3450-3550	30	40	CP-QPSK	M	Outer_Full	NV	-20	4.614675	0.001318	PASS
N78-3450-3550	30	40	CP-QPSK	M	Outer_Full	NV	-10	-3.130267	-0.000894	PASS
N78-3450-3550	30	40	CP-QPSK	M	Outer_Full	NV	0	-5.063815	-0.001447	PASS
N78-3450-3550	30	40	CP-QPSK	M	Outer_Full	NV	10	-0.209700	-0.000060	PASS
N78-3450-3550	30	40	CP-QPSK	M	Outer_Full	NV	20	-6.228766	-0.001780	PASS
N78-3450-3550	30	40	CP-QPSK	M	Outer_Full	NV	30	8.768003	0.002505	PASS
N78-3450-3550	30	40	CP-QPSK	M	Outer_Full	NV	40	0.825350	0.000236	PASS
N78-3450-3550	30	40	CP-QPSK	M	Outer_Full	NV	50	-5.951070	-0.001700	PASS
N78-3450-3550	30	40	DFT-QPSK	H	Outer_Full	NV	-30	-3.773486	-0.001069	PASS
N78-3450-3550	30	40	DFT-QPSK	H	Outer_Full	NV	-20	4.639725	0.001314	PASS
N78-3450-3550	30	40	DFT-QPSK	H	Outer_Full	NV	-10	-0.510505	-0.000145	PASS
N78-3450-3550	30	40	DFT-QPSK	H	Outer_Full	NV	0	-16.454803	-0.004661	PASS
N78-3450-3550	30	40	DFT-QPSK	H	Outer_Full	NV	10	3.608116	0.001022	PASS
N78-3450-3550	30	40	DFT-QPSK	H	Outer_Full	NV	20	-0.716004	-0.000203	PASS
N78-3450-3550	30	40	DFT-QPSK	H	Outer_Full	NV	30	-12.359819	-0.003501	PASS

N78-345 0-3550	30	40	DFT-QPSK	H	Outer_Full	NV	40	-3.864327	-0.001095	PASS
N78-345 0-3550	30	40	DFT-QPSK	H	Outer_Full	NV	50	-13.428392	-0.003804	PASS
N78-345 0-3550	30	40	CP-QPSK	H	Outer_Full	NV	-30	-6.395675	-0.001812	PASS
N78-345 0-3550	30	40	CP-QPSK	H	Outer_Full	NV	-20	10.290754	0.002915	PASS
N78-345 0-3550	30	40	CP-QPSK	H	Outer_Full	NV	-10	0.021833	0.000006	PASS
N78-345 0-3550	30	40	CP-QPSK	H	Outer_Full	NV	0	-0.172882	-0.000049	PASS
N78-345 0-3550	30	40	CP-QPSK	H	Outer_Full	NV	10	-3.381016	-0.000958	PASS
N78-345 0-3550	30	40	CP-QPSK	H	Outer_Full	NV	20	-4.075361	-0.001154	PASS
N78-345 0-3550	30	40	CP-QPSK	H	Outer_Full	NV	30	-11.178270	-0.003167	PASS
N78-345 0-3550	30	40	CP-QPSK	H	Outer_Full	NV	40	-4.816647	-0.001364	PASS
N78-345 0-3550	30	40	CP-QPSK	H	Outer_Full	NV	50	1.393105	0.000395	PASS
N78-345 0-3550	30	50	DFT-QPSK	L	Outer_Full	NV	-30	-3.467483	-0.000998	PASS
N78-345 0-3550	30	50	DFT-QPSK	L	Outer_Full	NV	-20	-11.088767	-0.003191	PASS
N78-345 0-3550	30	50	DFT-QPSK	L	Outer_Full	NV	-10	-3.093464	-0.000890	PASS
N78-345 0-3550	30	50	DFT-QPSK	L	Outer_Full	NV	0	-8.371352	-0.002409	PASS
N78-345 0-3550	30	50	DFT-QPSK	L	Outer_Full	NV	10	-7.374015	-0.002122	PASS
N78-345 0-3550	30	50	DFT-QPSK	L	Outer_Full	NV	20	4.230174	0.001217	PASS
N78-345 0-3550	30	50	DFT-QPSK	L	Outer_Full	NV	30	-10.932051	-0.003146	PASS
N78-345 0-3550	30	50	DFT-QPSK	L	Outer_Full	NV	40	-7.235489	-0.002082	PASS
N78-345 0-3550	30	50	DFT-QPSK	L	Outer_Full	NV	50	5.108419	0.001470	PASS
N78-345 0-3550	30	50	CP-QPSK	L	Outer_Full	NV	-30	-14.748732	-0.004244	PASS

N78-345 0-3550	30	50	CP-QPSK	L	Outer_Full	NV	-20	-8.178537	-0.002354	PASS
N78-345 0-3550	30	50	CP-QPSK	L	Outer_Full	NV	-10	-15.623762	-0.004496	PASS
N78-345 0-3550	30	50	CP-QPSK	L	Outer_Full	NV	0	-14.854979	-0.004275	PASS
N78-345 0-3550	30	50	CP-QPSK	L	Outer_Full	NV	10	-5.401912	-0.001555	PASS
N78-345 0-3550	30	50	CP-QPSK	L	Outer_Full	NV	20	-10.683071	-0.003074	PASS
N78-345 0-3550	30	50	CP-QPSK	L	Outer_Full	NV	30	0.872722	0.000251	PASS
N78-345 0-3550	30	50	CP-QPSK	L	Outer_Full	NV	40	-5.148417	-0.001482	PASS
N78-345 0-3550	30	50	CP-QPSK	L	Outer_Full	NV	50	-6.190475	-0.001781	PASS
N78-345 0-3550	30	50	DFT-QPSK	M	Outer_Full	NV	-30	-6.892262	-0.001969	PASS
N78-345 0-3550	30	50	DFT-QPSK	M	Outer_Full	NV	-20	1.431841	0.000409	PASS
N78-345 0-3550	30	50	DFT-QPSK	M	Outer_Full	NV	-10	-9.998107	-0.002857	PASS
N78-345 0-3550	30	50	DFT-QPSK	M	Outer_Full	NV	0	-2.950107	-0.000843	PASS
N78-345 0-3550	30	50	DFT-QPSK	M	Outer_Full	NV	10	-14.452749	-0.004129	PASS
N78-345 0-3550	30	50	DFT-QPSK	M	Outer_Full	NV	20	-1.454707	-0.000416	PASS
N78-345 0-3550	30	50	DFT-QPSK	M	Outer_Full	NV	30	-7.346152	-0.002099	PASS
N78-345 0-3550	30	50	DFT-QPSK	M	Outer_Full	NV	40	-7.446675	-0.002128	PASS
N78-345 0-3550	30	50	DFT-QPSK	M	Outer_Full	NV	50	3.391370	0.000969	PASS
N78-345 0-3550	30	50	CP-QPSK	M	Outer_Full	NV	-30	-5.616335	-0.001605	PASS
N78-345 0-3550	30	50	CP-QPSK	M	Outer_Full	NV	-20	4.060737	0.001160	PASS
N78-345 0-3550	30	50	CP-QPSK	M	Outer_Full	NV	-10	-13.463273	-0.003847	PASS
N78-345 0-3550	30	50	CP-QPSK	M	Outer_Full	NV	0	-3.629348	-0.001037	PASS

N78-345 0-3550	30	50	CP-QPSK	M	Outer_Full	NV	10	3.593800	0.001027	PASS
N78-345 0-3550	30	50	CP-QPSK	M	Outer_Full	NV	20	11.116671	0.003176	PASS
N78-345 0-3550	30	50	CP-QPSK	M	Outer_Full	NV	30	-9.214421	-0.002633	PASS
N78-345 0-3550	30	50	CP-QPSK	M	Outer_Full	NV	40	2.659755	0.000760	PASS
N78-345 0-3550	30	50	CP-QPSK	M	Outer_Full	NV	50	-2.136805	-0.000611	PASS
N78-345 0-3550	30	50	DFT-QPSK	H	Outer_Full	NV	-30	-7.797935	-0.002212	PASS
N78-345 0-3550	30	50	DFT-QPSK	H	Outer_Full	NV	-20	-12.931728	-0.003669	PASS
N78-345 0-3550	30	50	DFT-QPSK	H	Outer_Full	NV	-10	-13.522033	-0.003836	PASS
N78-345 0-3550	30	50	DFT-QPSK	H	Outer_Full	NV	0	-0.734292	-0.000208	PASS
N78-345 0-3550	30	50	DFT-QPSK	H	Outer_Full	NV	10	5.375550	0.001525	PASS
N78-345 0-3550	30	50	DFT-QPSK	H	Outer_Full	NV	20	-2.089253	-0.000593	PASS
N78-345 0-3550	30	50	DFT-QPSK	H	Outer_Full	NV	30	-12.500677	-0.003546	PASS
N78-345 0-3550	30	50	DFT-QPSK	H	Outer_Full	NV	40	-6.102849	-0.001731	PASS
N78-345 0-3550	30	50	DFT-QPSK	H	Outer_Full	NV	50	-4.847298	-0.001375	PASS
N78-345 0-3550	30	50	CP-QPSK	H	Outer_Full	NV	-30	-11.233191	-0.003187	PASS
N78-345 0-3550	30	50	CP-QPSK	H	Outer_Full	NV	-20	-9.541728	-0.002707	PASS
N78-345 0-3550	30	50	CP-QPSK	H	Outer_Full	NV	-10	3.286730	0.000932	PASS
N78-345 0-3550	30	50	CP-QPSK	H	Outer_Full	NV	0	-0.138119	-0.000039	PASS
N78-345 0-3550	30	50	CP-QPSK	H	Outer_Full	NV	10	-16.525959	-0.004688	PASS
N78-345 0-3550	30	50	CP-QPSK	H	Outer_Full	NV	20	1.434924	0.000407	PASS
N78-345 0-3550	30	50	CP-QPSK	H	Outer_Full	NV	30	2.788465	0.000791	PASS

N78-345 0-3550	30	50	CP-QPSK	H	Outer_Full	NV	40	-10.559306	-0.002996	PASS
N78-345 0-3550	30	50	CP-QPSK	H	Outer_Full	NV	50	-3.378258	-0.000958	PASS
N78-345 0-3550	30	60	DFT-QPSK	L	Outer_Full	NV	-30	9.282495	0.002667	PASS
N78-345 0-3550	30	60	DFT-QPSK	L	Outer_Full	NV	-20	-9.489909	-0.002727	PASS
N78-345 0-3550	30	60	DFT-QPSK	L	Outer_Full	NV	-10	-4.779201	-0.001373	PASS
N78-345 0-3550	30	60	DFT-QPSK	L	Outer_Full	NV	0	-10.056299	-0.002890	PASS
N78-345 0-3550	30	60	DFT-QPSK	L	Outer_Full	NV	10	-3.160150	-0.000908	PASS
N78-345 0-3550	30	60	DFT-QPSK	L	Outer_Full	NV	20	-2.635016	-0.000757	PASS
N78-345 0-3550	30	60	DFT-QPSK	L	Outer_Full	NV	30	2.234329	0.000642	PASS
N78-345 0-3550	30	60	DFT-QPSK	L	Outer_Full	NV	40	-6.621683	-0.001903	PASS
N78-345 0-3550	30	60	DFT-QPSK	L	Outer_Full	NV	50	-15.378987	-0.004419	PASS
N78-345 0-3550	30	60	CP-QPSK	L	Outer_Full	NV	-30	-0.877463	-0.000252	PASS
N78-345 0-3550	30	60	CP-QPSK	L	Outer_Full	NV	-20	-21.149178	-0.006077	PASS
N78-345 0-3550	30	60	CP-QPSK	L	Outer_Full	NV	-10	-2.992631	-0.000860	PASS
N78-345 0-3550	30	60	CP-QPSK	L	Outer_Full	NV	0	-13.595967	-0.003907	PASS
N78-345 0-3550	30	60	CP-QPSK	L	Outer_Full	NV	10	-6.230719	-0.001790	PASS
N78-345 0-3550	30	60	CP-QPSK	L	Outer_Full	NV	20	-4.613106	-0.001326	PASS
N78-345 0-3550	30	60	CP-QPSK	L	Outer_Full	NV	30	-4.949565	-0.001422	PASS
N78-345 0-3550	30	60	CP-QPSK	L	Outer_Full	NV	40	-8.669247	-0.002491	PASS
N78-345 0-3550	30	60	CP-QPSK	L	Outer_Full	NV	50	-2.430201	-0.000698	PASS
N78-345 0-3550	30	60	DFT-QPSK	M	Outer_Full	NV	-30	13.557814	0.003874	PASS

N78-3450-3550	30	60	DFT-QPSK	M	Outer_Full	NV	-20	-5.829216	-0.001665	PASS
N78-3450-3550	30	60	DFT-QPSK	M	Outer_Full	NV	-10	-7.652556	-0.002186	PASS
N78-3450-3550	30	60	DFT-QPSK	M	Outer_Full	NV	0	4.123214	0.001178	PASS
N78-3450-3550	30	60	DFT-QPSK	M	Outer_Full	NV	10	-4.225323	-0.001207	PASS
N78-3450-3550	30	60	DFT-QPSK	M	Outer_Full	NV	20	-5.996024	-0.001713	PASS
N78-3450-3550	30	60	DFT-QPSK	M	Outer_Full	NV	30	-5.269203	-0.001505	PASS
N78-3450-3550	30	60	DFT-QPSK	M	Outer_Full	NV	40	5.197803	0.001485	PASS
N78-3450-3550	30	60	DFT-QPSK	M	Outer_Full	NV	50	-0.343132	-0.000098	PASS
N78-3450-3550	30	60	CP-QPSK	M	Outer_Full	NV	-30	9.077836	0.002594	PASS
N78-3450-3550	30	60	CP-QPSK	M	Outer_Full	NV	-20	-1.836307	-0.000525	PASS
N78-3450-3550	30	60	CP-QPSK	M	Outer_Full	NV	-10	6.949649	0.001986	PASS
N78-3450-3550	30	60	CP-QPSK	M	Outer_Full	NV	0	1.910078	0.000546	PASS
N78-3450-3550	30	60	CP-QPSK	M	Outer_Full	NV	10	3.537580	0.001011	PASS
N78-3450-3550	30	60	CP-QPSK	M	Outer_Full	NV	20	1.700020	0.000486	PASS
N78-3450-3550	30	60	CP-QPSK	M	Outer_Full	NV	30	4.479899	0.001280	PASS
N78-3450-3550	30	60	CP-QPSK	M	Outer_Full	NV	40	-0.700228	-0.000200	PASS
N78-3450-3550	30	60	CP-QPSK	M	Outer_Full	NV	50	-10.169503	-0.002906	PASS
N78-3450-3550	30	60	DFT-QPSK	H	Outer_Full	NV	-30	5.918641	0.001681	PASS
N78-3450-3550	30	60	DFT-QPSK	H	Outer_Full	NV	-20	-10.588943	-0.003008	PASS
N78-3450-3550	30	60	DFT-QPSK	H	Outer_Full	NV	-10	6.605224	0.001876	PASS
N78-3450-3550	30	60	DFT-QPSK	H	Outer_Full	NV	0	-2.151008	-0.000611	PASS

N78-345 0-3550	30	60	DFT-QPSK	H	Outer_Full	NV	10	-2.937435	-0.000835	PASS
N78-345 0-3550	30	60	DFT-QPSK	H	Outer_Full	NV	20	-2.530214	-0.000719	PASS
N78-345 0-3550	30	60	DFT-QPSK	H	Outer_Full	NV	30	-1.398084	-0.000397	PASS
N78-345 0-3550	30	60	DFT-QPSK	H	Outer_Full	NV	40	1.780321	0.000506	PASS
N78-345 0-3550	30	60	DFT-QPSK	H	Outer_Full	NV	50	-1.203470	-0.000342	PASS
N78-345 0-3550	30	60	CP-QPSK	H	Outer_Full	NV	-30	-9.579074	-0.002721	PASS
N78-345 0-3550	30	60	CP-QPSK	H	Outer_Full	NV	-20	-8.545619	-0.002428	PASS
N78-345 0-3550	30	60	CP-QPSK	H	Outer_Full	NV	-10	-4.259837	-0.001210	PASS
N78-345 0-3550	30	60	CP-QPSK	H	Outer_Full	NV	0	-4.465112	-0.001269	PASS
N78-345 0-3550	30	60	CP-QPSK	H	Outer_Full	NV	10	-6.326320	-0.001797	PASS
N78-345 0-3550	30	60	CP-QPSK	H	Outer_Full	NV	20	-7.812309	-0.002219	PASS
N78-345 0-3550	30	60	CP-QPSK	H	Outer_Full	NV	30	-13.123603	-0.003728	PASS
N78-345 0-3550	30	60	CP-QPSK	H	Outer_Full	NV	40	10.735022	0.003050	PASS
N78-345 0-3550	30	60	CP-QPSK	H	Outer_Full	NV	50	-1.314574	-0.000373	PASS
N78-345 0-3550	30	80	DFT-QPSK	L	Outer_Full	NV	-30	-12.750298	-0.003653	PASS
N78-345 0-3550	30	80	DFT-QPSK	L	Outer_Full	NV	-20	0.534506	0.000153	PASS
N78-345 0-3550	30	80	DFT-QPSK	L	Outer_Full	NV	-10	-20.286432	-0.005813	PASS
N78-345 0-3550	30	80	DFT-QPSK	L	Outer_Full	NV	0	-7.107790	-0.002037	PASS
N78-345 0-3550	30	80	DFT-QPSK	L	Outer_Full	NV	10	-12.049702	-0.003453	PASS
N78-345 0-3550	30	80	DFT-QPSK	L	Outer_Full	NV	20	-15.742353	-0.004511	PASS
N78-345 0-3550	30	80	DFT-QPSK	L	Outer_Full	NV	30	0.859261	0.000246	PASS

N78-345 0-3550	30	80	DFT-QPSK	L	Outer_Full	NV	40	1.079723	0.000309	PASS
N78-345 0-3550	30	80	DFT-QPSK	L	Outer_Full	NV	50	-4.337156	-0.001243	PASS
N78-345 0-3550	30	80	CP-QPSK	L	Outer_Full	NV	-30	-0.129450	-0.000037	PASS
N78-345 0-3550	30	80	CP-QPSK	L	Outer_Full	NV	-20	-8.305414	-0.002380	PASS
N78-345 0-3550	30	80	CP-QPSK	L	Outer_Full	NV	-10	-3.001997	-0.000860	PASS
N78-345 0-3550	30	80	CP-QPSK	L	Outer_Full	NV	0	-27.979807	-0.008017	PASS
N78-345 0-3550	30	80	CP-QPSK	L	Outer_Full	NV	10	-3.786186	-0.001085	PASS
N78-345 0-3550	30	80	CP-QPSK	L	Outer_Full	NV	20	-5.661770	-0.001622	PASS
N78-345 0-3550	30	80	CP-QPSK	L	Outer_Full	NV	30	-8.731435	-0.002502	PASS
N78-345 0-3550	30	80	CP-QPSK	L	Outer_Full	NV	40	-10.239598	-0.002934	PASS
N78-345 0-3550	30	80	CP-QPSK	L	Outer_Full	NV	50	3.123872	0.000895	PASS
N78-345 0-3550	30	80	DFT-QPSK	M	Outer_Full	NV	-30	-0.995488	-0.000284	PASS
N78-345 0-3550	30	80	DFT-QPSK	M	Outer_Full	NV	-20	-4.525957	-0.001293	PASS
N78-345 0-3550	30	80	DFT-QPSK	M	Outer_Full	NV	-10	-3.640313	-0.001040	PASS
N78-345 0-3550	30	80	DFT-QPSK	M	Outer_Full	NV	0	7.837821	0.002239	PASS
N78-345 0-3550	30	80	DFT-QPSK	M	Outer_Full	NV	10	-7.702478	-0.002201	PASS
N78-345 0-3550	30	80	DFT-QPSK	M	Outer_Full	NV	20	-18.762169	-0.005361	PASS
N78-345 0-3550	30	80	DFT-QPSK	M	Outer_Full	NV	30	-1.897939	-0.000542	PASS
N78-345 0-3550	30	80	DFT-QPSK	M	Outer_Full	NV	40	-20.133419	-0.005752	PASS
N78-345 0-3550	30	80	DFT-QPSK	M	Outer_Full	NV	50	1.193129	0.000341	PASS
N78-345 0-3550	30	80	CP-QPSK	M	Outer_Full	NV	-30	0.066558	0.000019	PASS

N78-345 0-3550	30	80	CP-QPSK	M	Outer_Full	NV	-20	-13.491705	-0.003855	PASS
N78-345 0-3550	30	80	CP-QPSK	M	Outer_Full	NV	-10	7.524374	0.002150	PASS
N78-345 0-3550	30	80	CP-QPSK	M	Outer_Full	NV	0	-14.651269	-0.004186	PASS
N78-345 0-3550	30	80	CP-QPSK	M	Outer_Full	NV	10	-10.141647	-0.002898	PASS
N78-345 0-3550	30	80	CP-QPSK	M	Outer_Full	NV	20	3.922311	0.001121	PASS
N78-345 0-3550	30	80	CP-QPSK	M	Outer_Full	NV	30	-4.223018	-0.001207	PASS
N78-345 0-3550	30	80	CP-QPSK	M	Outer_Full	NV	40	15.019981	0.004291	PASS
N78-345 0-3550	30	80	CP-QPSK	M	Outer_Full	NV	50	5.787749	0.001654	PASS
N78-345 0-3550	30	80	DFT-QPSK	H	Outer_Full	NV	-30	-11.531163	-0.003285	PASS
N78-345 0-3550	30	80	DFT-QPSK	H	Outer_Full	NV	-20	-6.729817	-0.001917	PASS
N78-345 0-3550	30	80	DFT-QPSK	H	Outer_Full	NV	-10	-14.424047	-0.004109	PASS
N78-345 0-3550	30	80	DFT-QPSK	H	Outer_Full	NV	0	-3.031236	-0.000864	PASS
N78-345 0-3550	30	80	DFT-QPSK	H	Outer_Full	NV	10	-0.825479	-0.000235	PASS
N78-345 0-3550	30	80	DFT-QPSK	H	Outer_Full	NV	20	-5.219390	-0.001487	PASS
N78-345 0-3550	30	80	DFT-QPSK	H	Outer_Full	NV	30	10.002318	0.002850	PASS
N78-345 0-3550	30	80	DFT-QPSK	H	Outer_Full	NV	40	-2.048305	-0.000584	PASS
N78-345 0-3550	30	80	DFT-QPSK	H	Outer_Full	NV	50	-4.092655	-0.001166	PASS
N78-345 0-3550	30	80	CP-QPSK	H	Outer_Full	NV	-30	-21.423653	-0.006104	PASS
N78-345 0-3550	30	80	CP-QPSK	H	Outer_Full	NV	-20	7.433134	0.002118	PASS
N78-345 0-3550	30	80	CP-QPSK	H	Outer_Full	NV	-10	6.111558	0.001741	PASS
N78-345 0-3550	30	80	CP-QPSK	H	Outer_Full	NV	0	-10.733924	-0.003058	PASS

N78-345 0-3550	30	80	CP-QPSK	H	Outer_Full	NV	10	0.449129	0.000128	PASS
N78-345 0-3550	30	80	CP-QPSK	H	Outer_Full	NV	20	-10.197982	-0.002905	PASS
N78-345 0-3550	30	80	CP-QPSK	H	Outer_Full	NV	30	0.108846	0.000031	PASS
N78-345 0-3550	30	80	CP-QPSK	H	Outer_Full	NV	40	-10.327028	-0.002942	PASS
N78-345 0-3550	30	80	CP-QPSK	H	Outer_Full	NV	50	-19.389763	-0.005524	PASS
N78-345 0-3550	30	90	DFT-QPSK	L	Outer_Full	NV	-30	2.685519	0.000768	PASS
N78-345 0-3550	30	90	DFT-QPSK	L	Outer_Full	NV	-20	9.108140	0.002606	PASS
N78-345 0-3550	30	90	DFT-QPSK	L	Outer_Full	NV	-10	-13.908377	-0.003980	PASS
N78-345 0-3550	30	90	DFT-QPSK	L	Outer_Full	NV	0	-4.777297	-0.001367	PASS
N78-345 0-3550	30	90	DFT-QPSK	L	Outer_Full	NV	10	-6.221356	-0.001780	PASS
N78-345 0-3550	30	90	DFT-QPSK	L	Outer_Full	NV	20	6.308789	0.001805	PASS
N78-345 0-3550	30	90	DFT-QPSK	L	Outer_Full	NV	30	10.088958	0.002887	PASS
N78-345 0-3550	30	90	DFT-QPSK	L	Outer_Full	NV	40	5.630245	0.001611	PASS
N78-345 0-3550	30	90	DFT-QPSK	L	Outer_Full	NV	50	4.214387	0.001206	PASS
N78-345 0-3550	30	90	CP-QPSK	L	Outer_Full	NV	-30	6.677425	0.001911	PASS
N78-345 0-3550	30	90	CP-QPSK	L	Outer_Full	NV	-20	-0.177955	-0.000051	PASS
N78-345 0-3550	30	90	CP-QPSK	L	Outer_Full	NV	-10	5.637260	0.001613	PASS
N78-345 0-3550	30	90	CP-QPSK	L	Outer_Full	NV	0	-8.992925	-0.002573	PASS
N78-345 0-3550	30	90	CP-QPSK	L	Outer_Full	NV	10	11.939002	0.003416	PASS
N78-345 0-3550	30	90	CP-QPSK	L	Outer_Full	NV	20	-8.339051	-0.002386	PASS
N78-345 0-3550	30	90	CP-QPSK	L	Outer_Full	NV	30	2.952683	0.000845	PASS

N78-345 0-3550	30	90	CP-QPSK	L	Outer_Full	NV	40	4.736775	0.001355	PASS
N78-345 0-3550	30	90	CP-QPSK	L	Outer_Full	NV	50	0.595027	0.000170	PASS
N78-345 0-3550	30	90	DFT-QPSK	M	Outer_Full	NV	-30	3.270725	0.000934	PASS
N78-345 0-3550	30	90	DFT-QPSK	M	Outer_Full	NV	-20	5.077931	0.001451	PASS
N78-345 0-3550	30	90	DFT-QPSK	M	Outer_Full	NV	-10	2.015982	0.000576	PASS
N78-345 0-3550	30	90	DFT-QPSK	M	Outer_Full	NV	0	-2.172462	-0.000621	PASS
N78-345 0-3550	30	90	DFT-QPSK	M	Outer_Full	NV	10	-1.500869	-0.000429	PASS
N78-345 0-3550	30	90	DFT-QPSK	M	Outer_Full	NV	20	5.664167	0.001618	PASS
N78-345 0-3550	30	90	DFT-QPSK	M	Outer_Full	NV	30	3.812099	0.001089	PASS
N78-345 0-3550	30	90	DFT-QPSK	M	Outer_Full	NV	40	-1.059456	-0.000303	PASS
N78-345 0-3550	30	90	DFT-QPSK	M	Outer_Full	NV	50	-2.059649	-0.000588	PASS
N78-345 0-3550	30	90	CP-QPSK	M	Outer_Full	NV	-30	3.407764	0.000974	PASS
N78-345 0-3550	30	90	CP-QPSK	M	Outer_Full	NV	-20	8.288772	0.002368	PASS
N78-345 0-3550	30	90	CP-QPSK	M	Outer_Full	NV	-10	10.189374	0.002911	PASS
N78-345 0-3550	30	90	CP-QPSK	M	Outer_Full	NV	0	-0.689785	-0.000197	PASS
N78-345 0-3550	30	90	CP-QPSK	M	Outer_Full	NV	10	-2.184716	-0.000624	PASS
N78-345 0-3550	30	90	CP-QPSK	M	Outer_Full	NV	20	-1.366096	-0.000390	PASS
N78-345 0-3550	30	90	CP-QPSK	M	Outer_Full	NV	30	7.057828	0.002017	PASS
N78-345 0-3550	30	90	CP-QPSK	M	Outer_Full	NV	40	-1.904143	-0.000544	PASS
N78-345 0-3550	30	90	CP-QPSK	M	Outer_Full	NV	50	-9.870471	-0.002820	PASS
N78-345 0-3550	30	90	DFT-QPSK	H	Outer_Full	NV	-30	-13.447267	-0.003837	PASS

N78-345 0-3550	30	90	DFT-QPSK	H	Outer_Full	NV	-20	-4.784017	-0.001365	PASS
N78-345 0-3550	30	90	DFT-QPSK	H	Outer_Full	NV	-10	-6.587969	-0.001880	PASS
N78-345 0-3550	30	90	DFT-QPSK	H	Outer_Full	NV	0	-1.544533	-0.000441	PASS
N78-345 0-3550	30	90	DFT-QPSK	H	Outer_Full	NV	10	-20.311693	-0.005795	PASS
N78-345 0-3550	30	90	DFT-QPSK	H	Outer_Full	NV	20	-7.774356	-0.002218	PASS
N78-345 0-3550	30	90	DFT-QPSK	H	Outer_Full	NV	30	-9.948800	-0.002838	PASS
N78-345 0-3550	30	90	DFT-QPSK	H	Outer_Full	NV	40	-3.564386	-0.001017	PASS
N78-345 0-3550	30	90	DFT-QPSK	H	Outer_Full	NV	50	-21.407267	-0.006108	PASS
N78-345 0-3550	30	90	CP-QPSK	H	Outer_Full	NV	-30	-9.926481	-0.002832	PASS
N78-345 0-3550	30	90	CP-QPSK	H	Outer_Full	NV	-20	-12.985221	-0.003705	PASS
N78-345 0-3550	30	90	CP-QPSK	H	Outer_Full	NV	-10	-0.834864	-0.000238	PASS
N78-345 0-3550	30	90	CP-QPSK	H	Outer_Full	NV	0	-9.951554	-0.002839	PASS
N78-345 0-3550	30	90	CP-QPSK	H	Outer_Full	NV	10	-5.353949	-0.001528	PASS
N78-345 0-3550	30	90	CP-QPSK	H	Outer_Full	NV	20	-14.715998	-0.004199	PASS
N78-345 0-3550	30	90	CP-QPSK	H	Outer_Full	NV	30	-7.813128	-0.002229	PASS
N78-345 0-3550	30	90	CP-QPSK	H	Outer_Full	NV	40	-2.695880	-0.000769	PASS
N78-345 0-3550	30	90	CP-QPSK	H	Outer_Full	NV	50	-0.691293	-0.000197	PASS
N78-345 0-3550	30	100	DFT-QPSK	L	Outer_Full	NV	-30	5.766786	0.001648	PASS
N78-345 0-3550	30	100	DFT-QPSK	L	Outer_Full	NV	-20	7.830699	0.002237	PASS
N78-345 0-3550	30	100	DFT-QPSK	L	Outer_Full	NV	-10	5.578277	0.001594	PASS
N78-345 0-3550	30	100	DFT-QPSK	L	Outer_Full	NV	0	-5.992337	-0.001712	PASS

N78-3450-3550	30	100	DFT-QPSK	L	Outer_Full	NV	10	-15.429677	-0.004408	PASS
N78-3450-3550	30	100	DFT-QPSK	L	Outer_Full	NV	20	-15.815608	-0.004519	PASS
N78-3450-3550	30	100	DFT-QPSK	L	Outer_Full	NV	30	2.771870	0.000792	PASS
N78-3450-3550	30	100	DFT-QPSK	L	Outer_Full	NV	40	0.583653	0.000167	PASS
N78-3450-3550	30	100	DFT-QPSK	L	Outer_Full	NV	50	0.970279	0.000277	PASS
N78-3450-3550	30	100	CP-QPSK	L	Outer_Full	NV	-30	14.732371	0.004209	PASS
N78-3450-3550	30	100	CP-QPSK	L	Outer_Full	NV	-20	-6.864857	-0.001961	PASS
N78-3450-3550	30	100	CP-QPSK	L	Outer_Full	NV	-10	9.143285	0.002612	PASS
N78-3450-3550	30	100	CP-QPSK	L	Outer_Full	NV	0	4.969891	0.001420	PASS
N78-3450-3550	30	100	CP-QPSK	L	Outer_Full	NV	10	0.317945	0.000091	PASS
N78-3450-3550	30	100	CP-QPSK	L	Outer_Full	NV	20	-14.997533	-0.004285	PASS
N78-3450-3550	30	100	CP-QPSK	L	Outer_Full	NV	30	6.209640	0.001774	PASS
N78-3450-3550	30	100	CP-QPSK	L	Outer_Full	NV	40	-2.574099	-0.000735	PASS
N78-3450-3550	30	100	CP-QPSK	L	Outer_Full	NV	50	-5.650743	-0.001614	PASS
N78-3450-3550	30	100	DFT-QPSK	M	Outer_Full	NV	-30	-10.187772	-0.002911	PASS
N78-3450-3550	30	100	DFT-QPSK	M	Outer_Full	NV	-20	3.057811	0.000874	PASS
N78-3450-3550	30	100	DFT-QPSK	M	Outer_Full	NV	-10	-7.639825	-0.002183	PASS
N78-3450-3550	30	100	DFT-QPSK	M	Outer_Full	NV	0	5.430877	0.001552	PASS
N78-3450-3550	30	100	DFT-QPSK	M	Outer_Full	NV	10	16.924513	0.004836	PASS
N78-3450-3550	30	100	DFT-QPSK	M	Outer_Full	NV	20	10.142587	0.002898	PASS
N78-3450-3550	30	100	DFT-QPSK	M	Outer_Full	NV	30	1.997247	0.000571	PASS

N78-345 0-3550	30	100	DFT-QPSK	M	Outer_Full	NV	40	7.832436	0.002238	PASS
N78-345 0-3550	30	100	DFT-QPSK	M	Outer_Full	NV	50	8.420431	0.002406	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	NV	-30	12.308677	0.003517	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	NV	-20	8.875943	0.002536	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	NV	-10	3.842901	0.001098	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	NV	0	-1.300771	-0.000372	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	NV	10	-4.916107	-0.001405	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	NV	20	3.786951	0.001082	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	NV	30	11.244626	0.003213	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	NV	40	0.329454	0.000094	PASS
N78-345 0-3550	30	100	CP-QPSK	M	Outer_Full	NV	50	0.847079	0.000242	PASS
N78-345 0-3550	30	100	DFT-QPSK	H	Outer_Full	NV	-30	-1.230451	-0.000352	PASS
N78-345 0-3550	30	100	DFT-QPSK	H	Outer_Full	NV	-20	8.360056	0.002389	PASS
N78-345 0-3550	30	100	DFT-QPSK	H	Outer_Full	NV	-10	7.542463	0.002155	PASS
N78-345 0-3550	30	100	DFT-QPSK	H	Outer_Full	NV	0	-8.968327	-0.002562	PASS
N78-345 0-3550	30	100	DFT-QPSK	H	Outer_Full	NV	10	-7.813426	-0.002232	PASS
N78-345 0-3550	30	100	DFT-QPSK	H	Outer_Full	NV	20	2.080633	0.000594	PASS
N78-345 0-3550	30	100	DFT-QPSK	H	Outer_Full	NV	30	-3.569707	-0.001020	PASS
N78-345 0-3550	30	100	DFT-QPSK	H	Outer_Full	NV	40	-3.671039	-0.001049	PASS
N78-345 0-3550	30	100	DFT-QPSK	H	Outer_Full	NV	50	11.879187	0.003394	PASS
N78-345 0-3550	30	100	CP-QPSK	H	Outer_Full	NV	-30	-8.730075	-0.002494	PASS

N78-3450-3550	30	100	CP-QPSK	H	Outer_Full	NV	-20	-4.154084	-0.001187	PASS
N78-3450-3550	30	100	CP-QPSK	H	Outer_Full	NV	-10	-6.994904	-0.001999	PASS
N78-3450-3550	30	100	CP-QPSK	H	Outer_Full	NV	0	-8.676868	-0.002479	PASS
N78-3450-3550	30	100	CP-QPSK	H	Outer_Full	NV	10	-1.718772	-0.000491	PASS
N78-3450-3550	30	100	CP-QPSK	H	Outer_Full	NV	20	14.272489	0.004078	PASS
N78-3450-3550	30	100	CP-QPSK	H	Outer_Full	NV	30	5.134647	0.001467	PASS
N78-3450-3550	30	100	CP-QPSK	H	Outer_Full	NV	40	-10.551565	-0.003015	PASS
N78-3450-3550	30	100	CP-QPSK	H	Outer_Full	NV	50	-0.134566	-0.000038	PASS

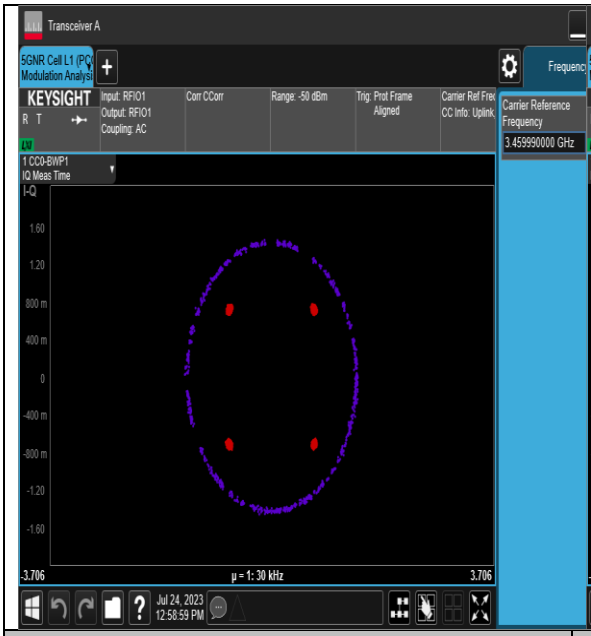
Appendix F: Modulation characteristics for SA

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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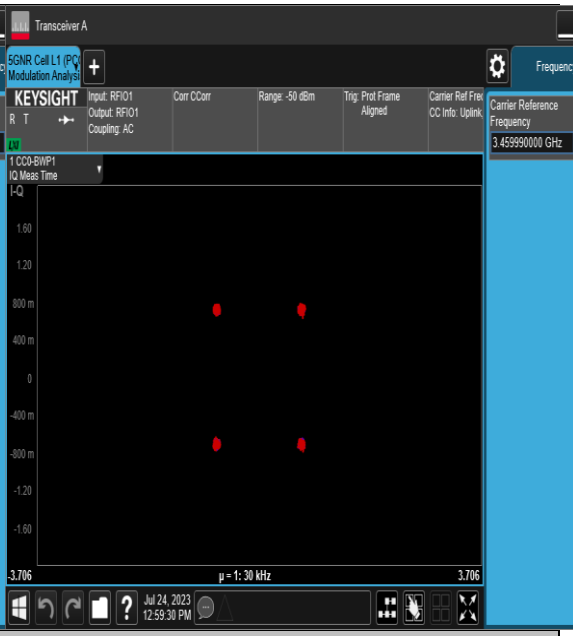

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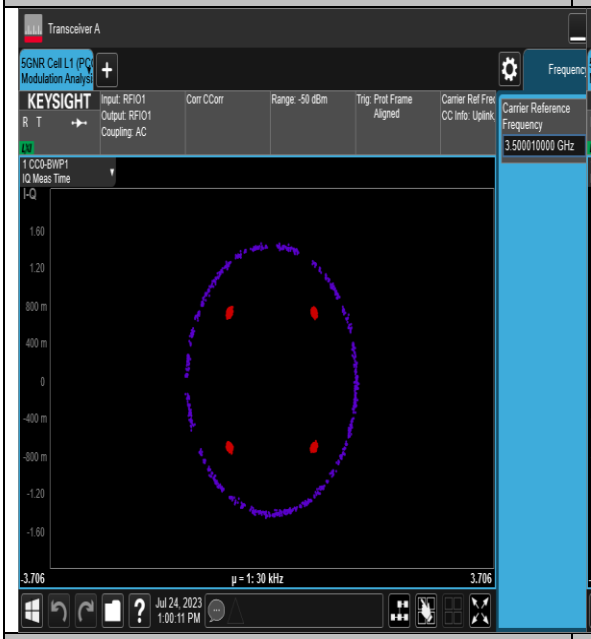

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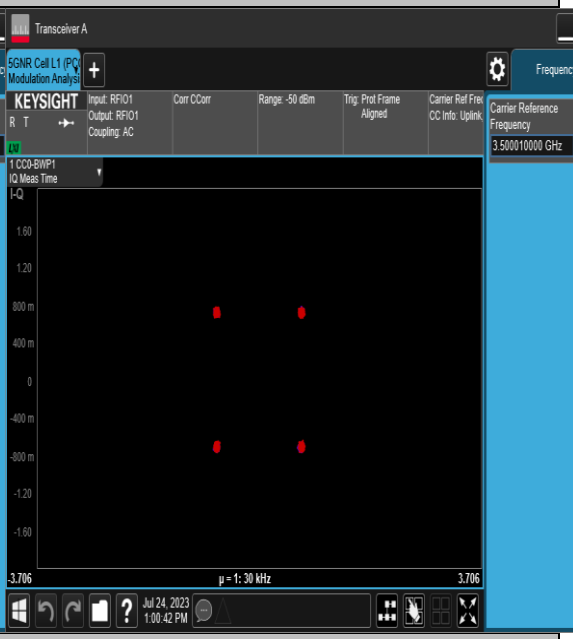

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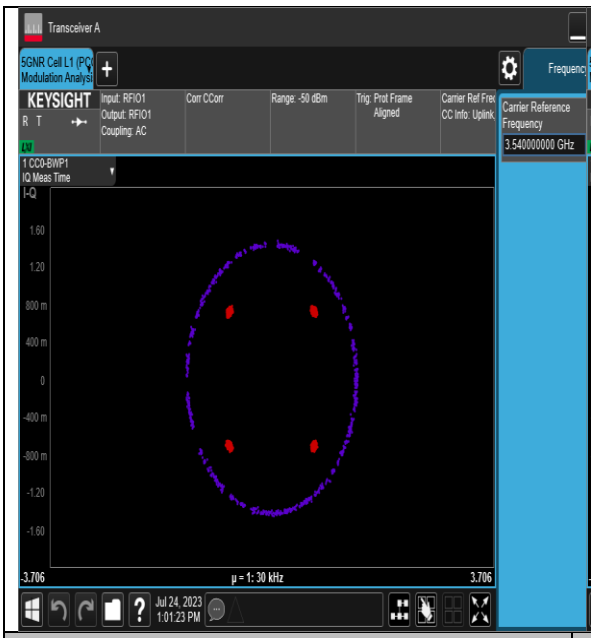

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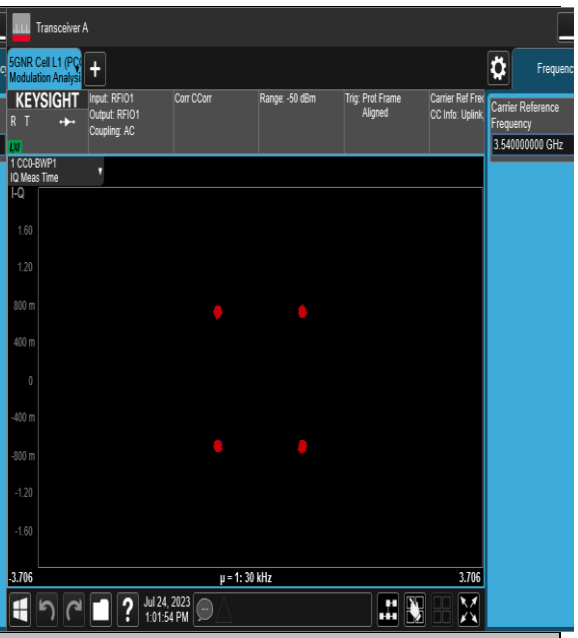

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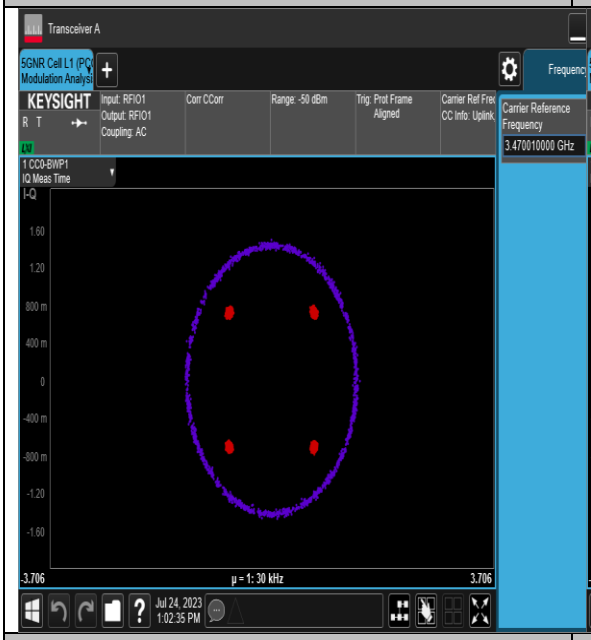

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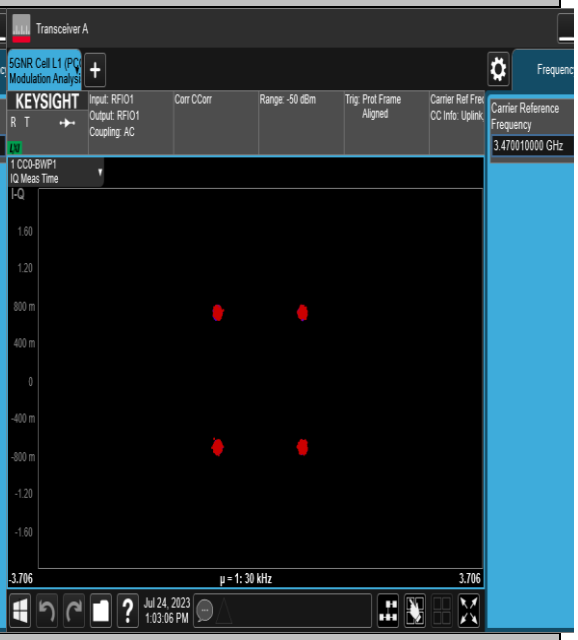

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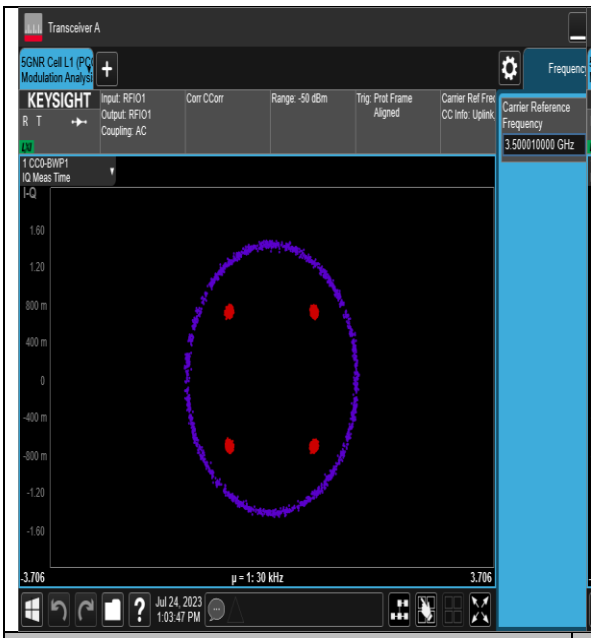

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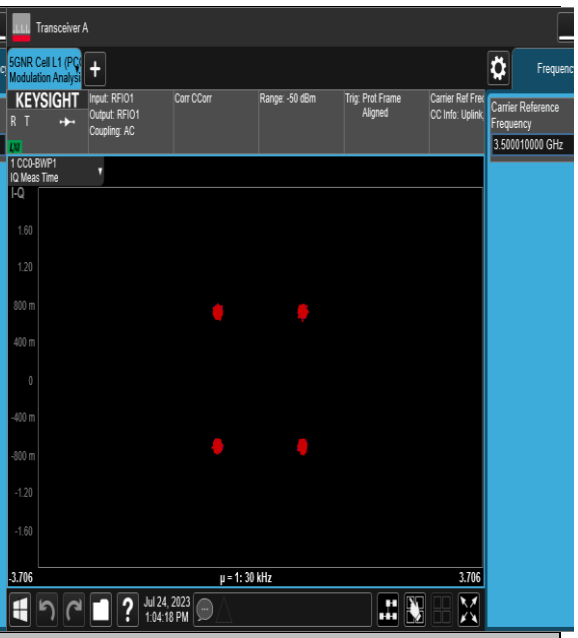

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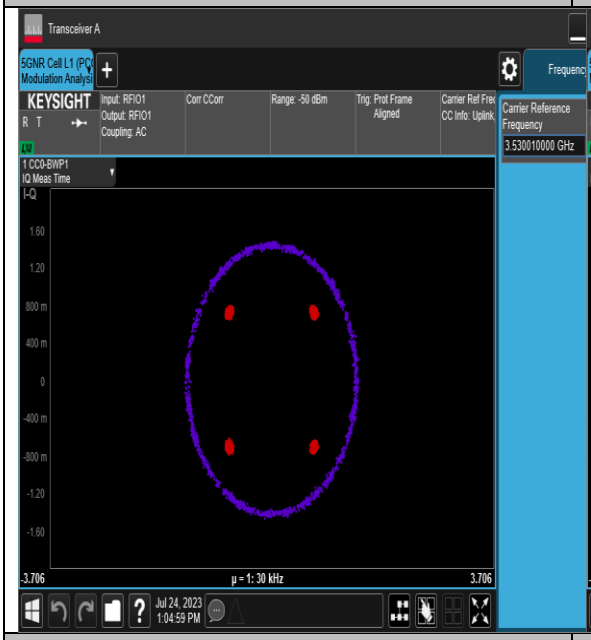

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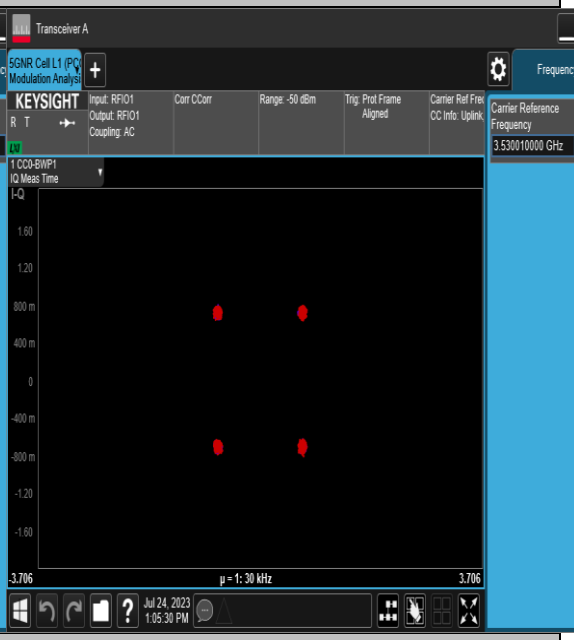

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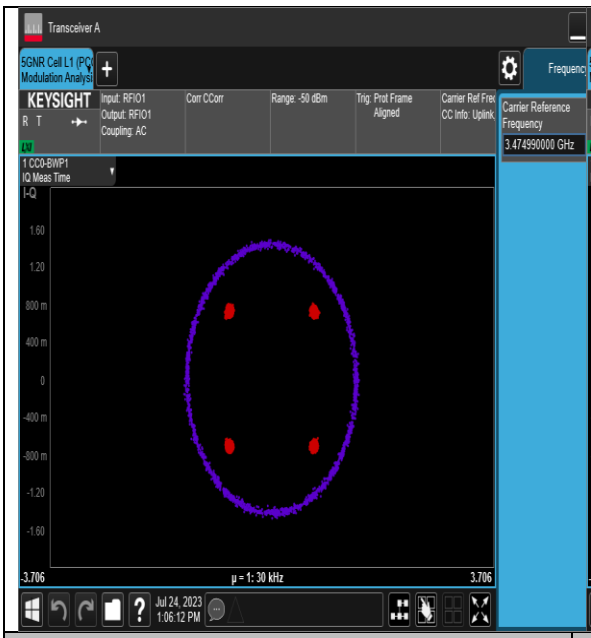

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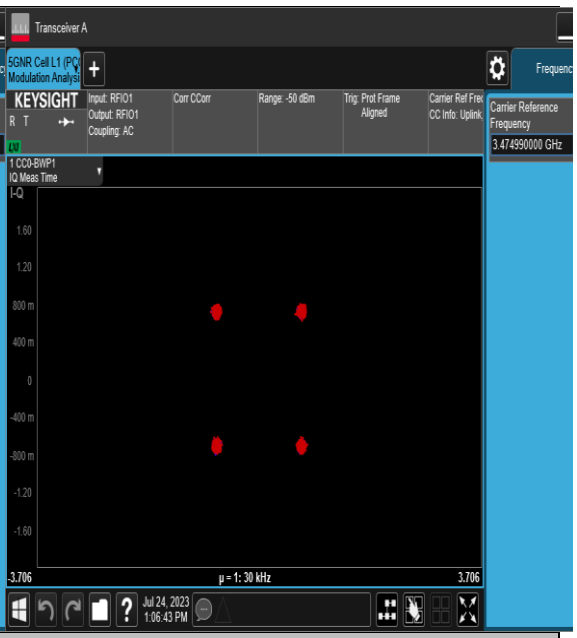

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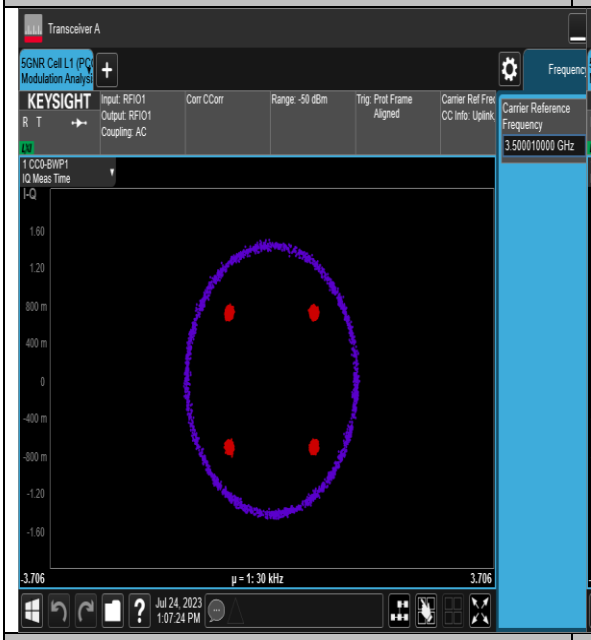

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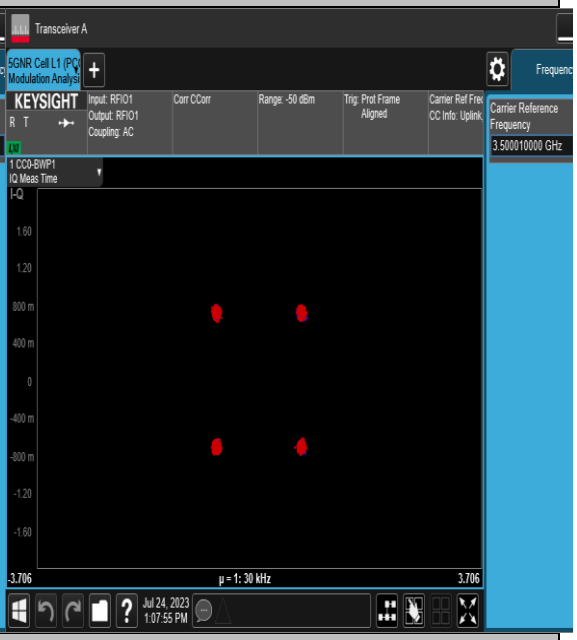

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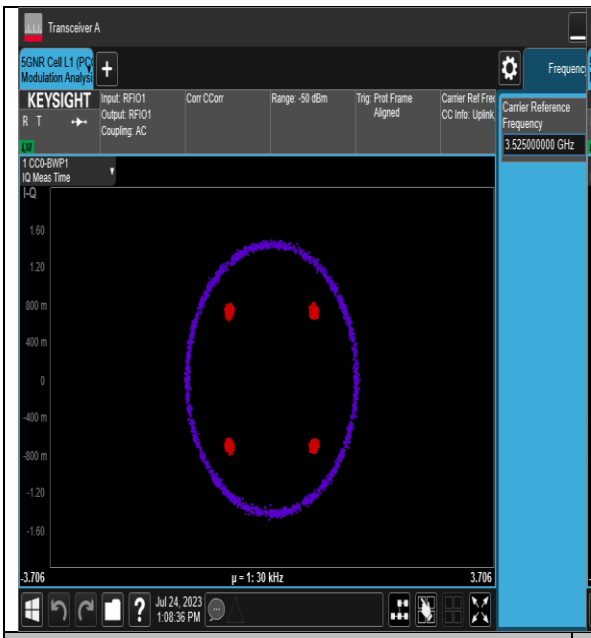

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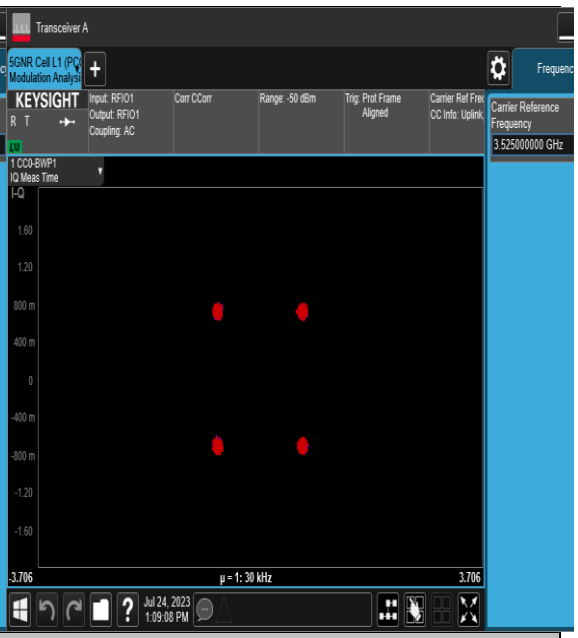

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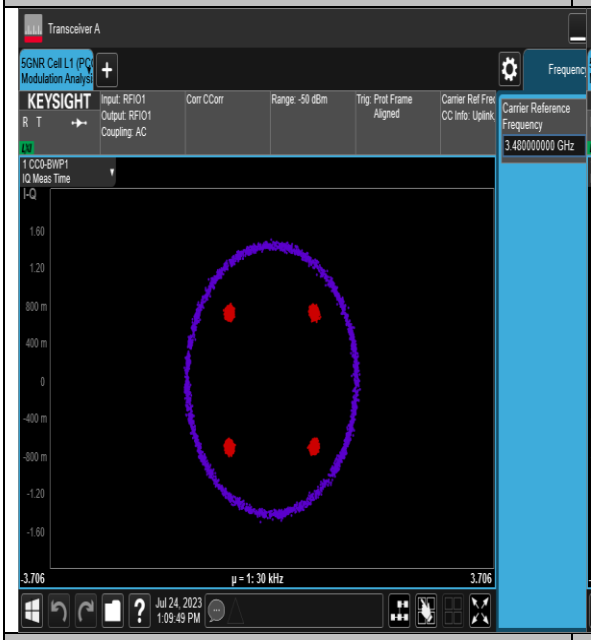

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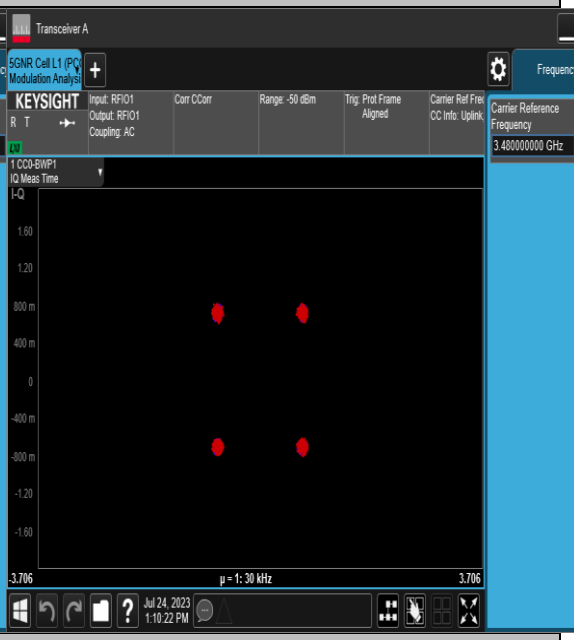

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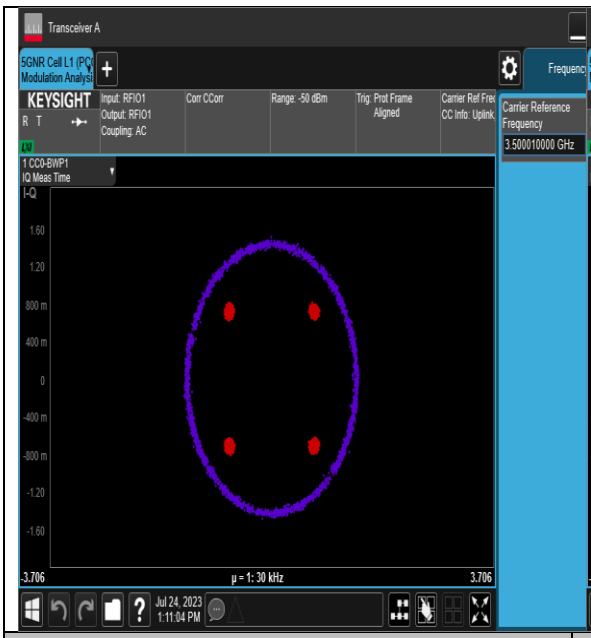

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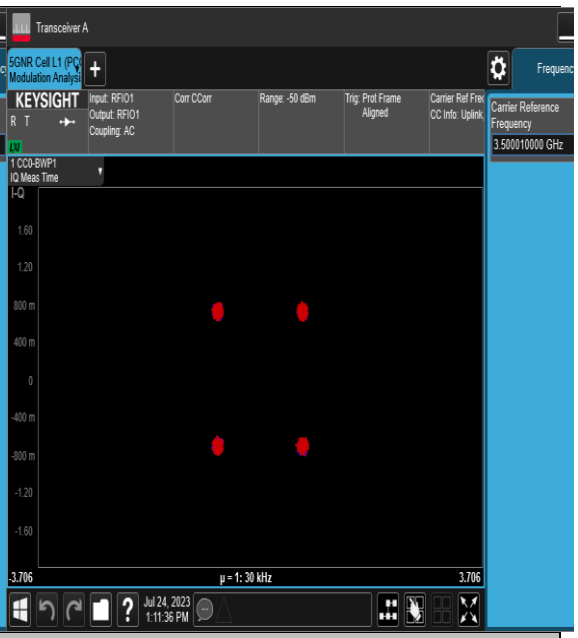

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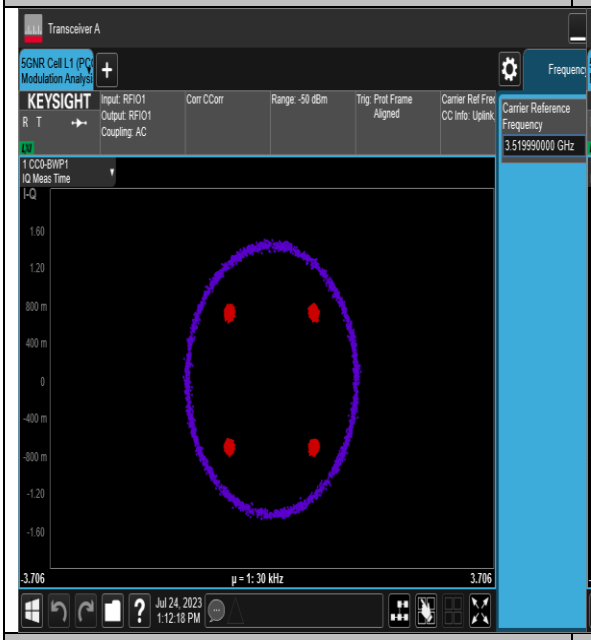

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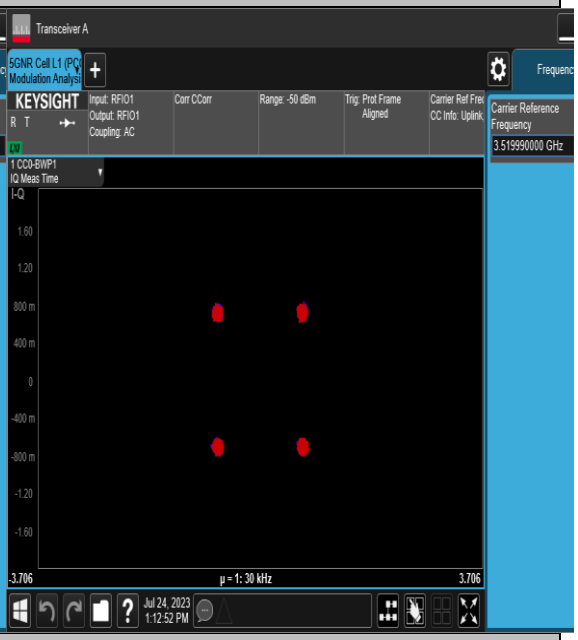

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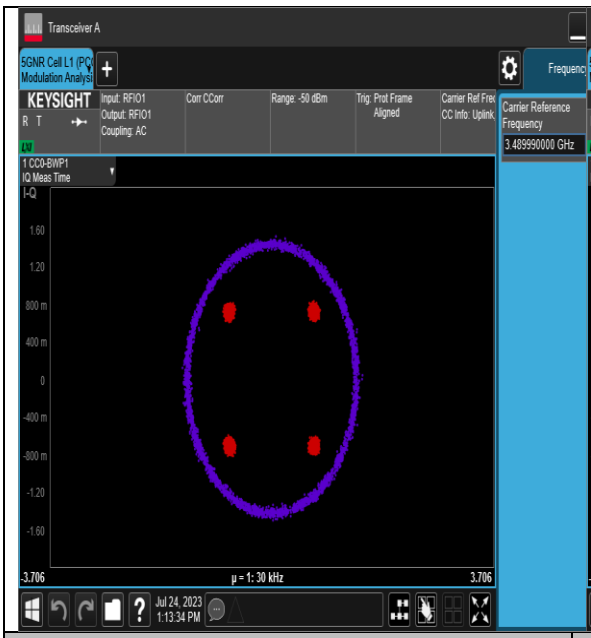

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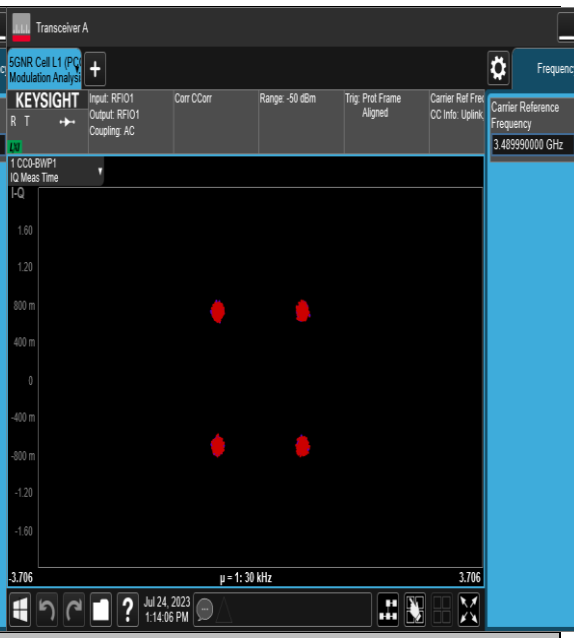

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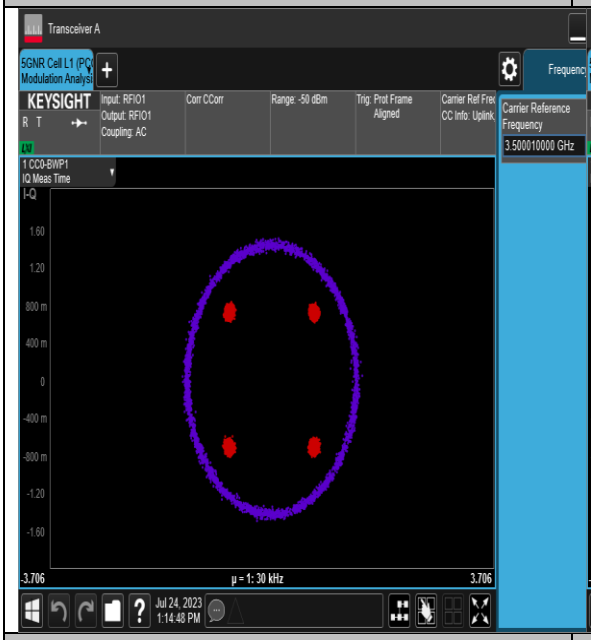

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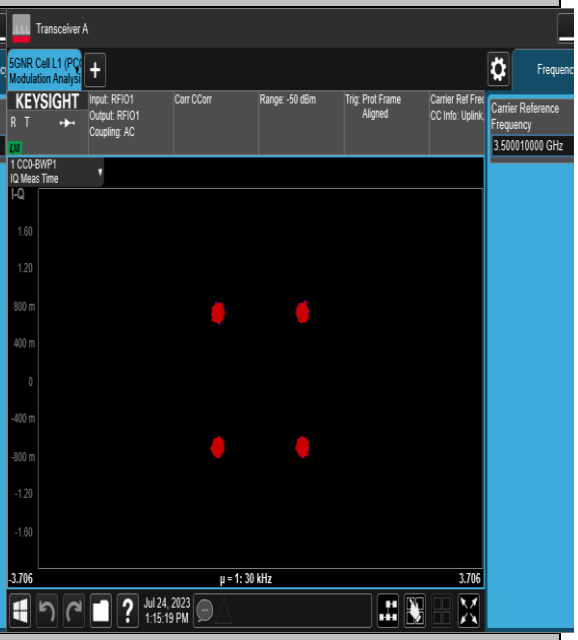

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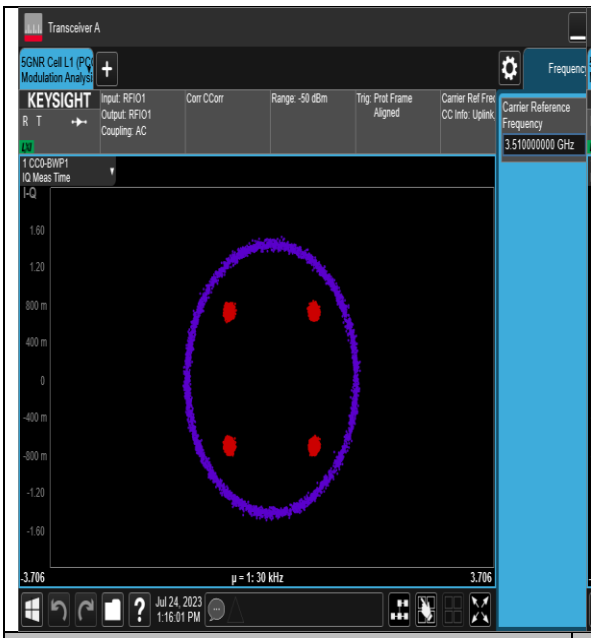

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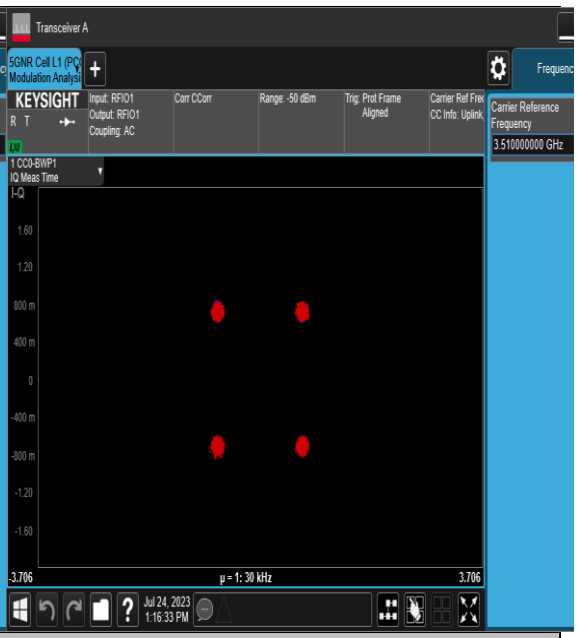

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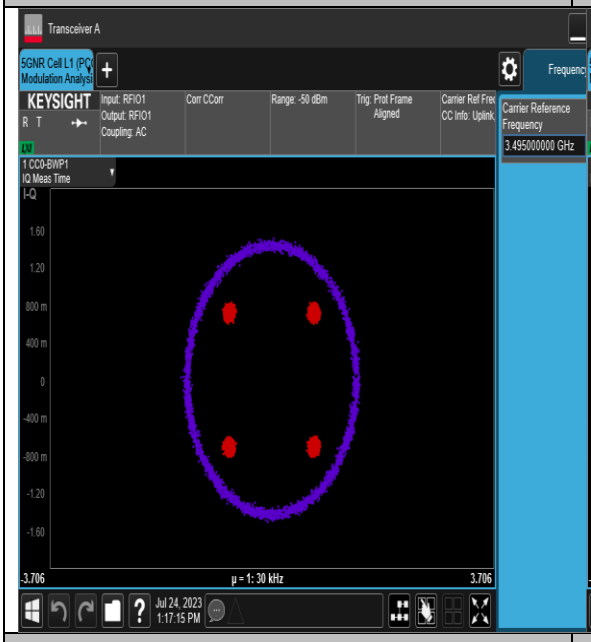

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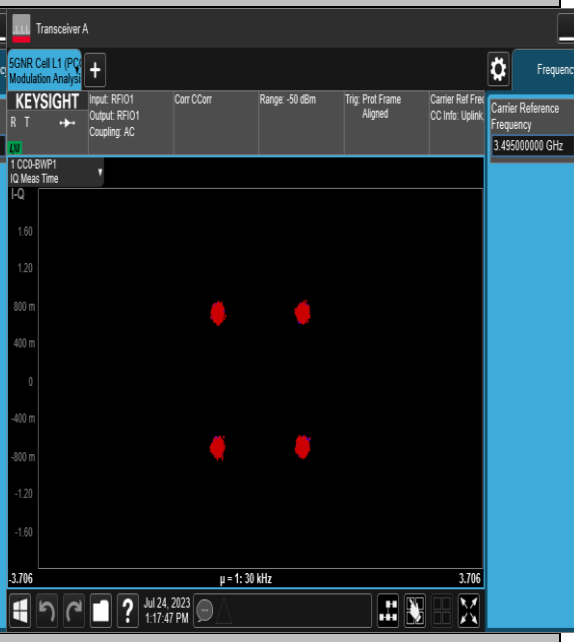

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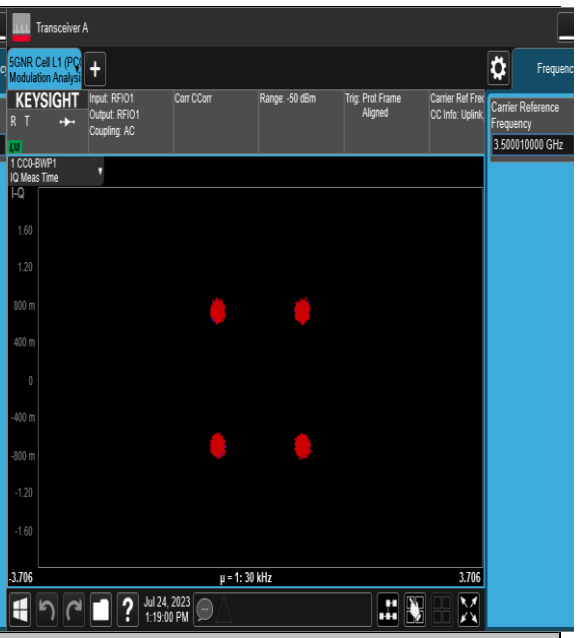

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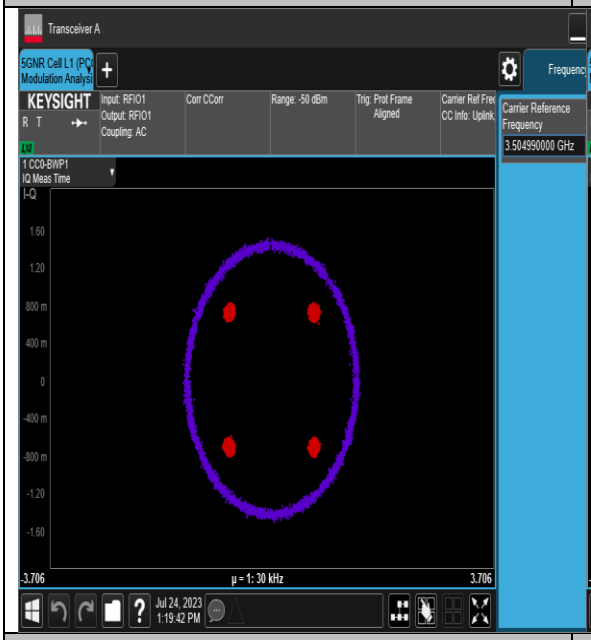

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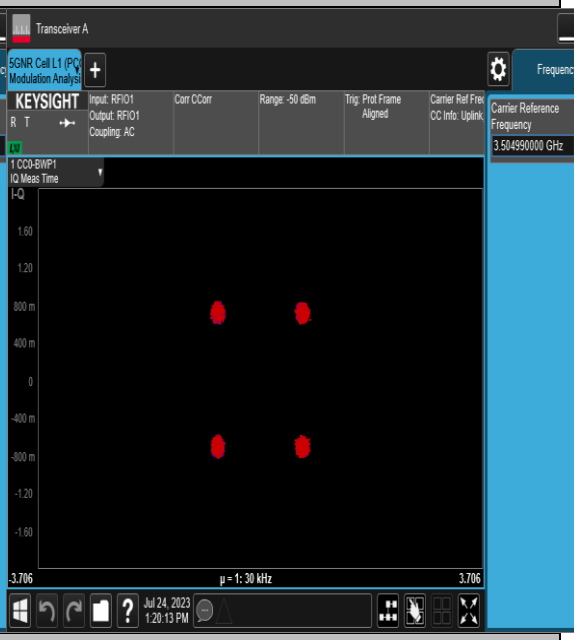

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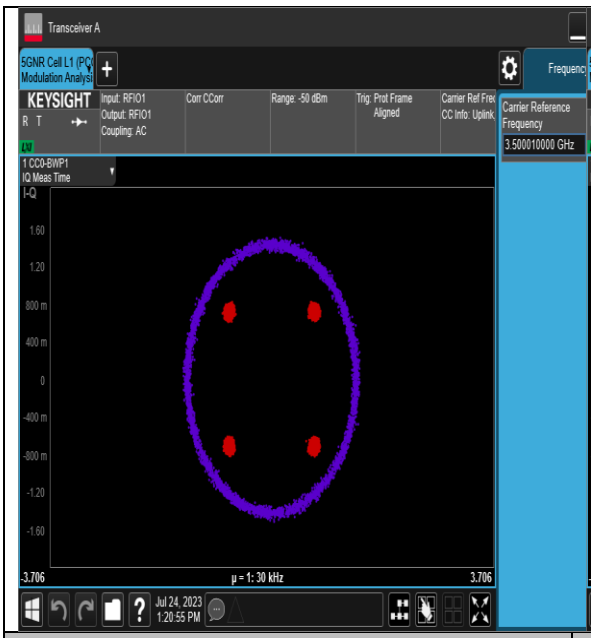

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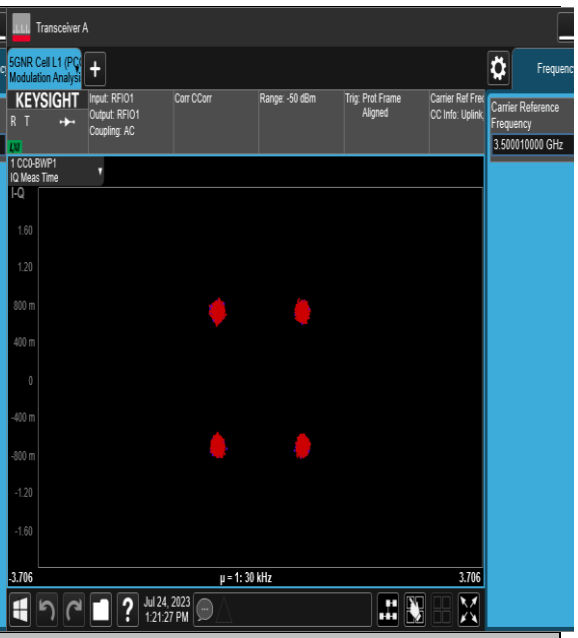

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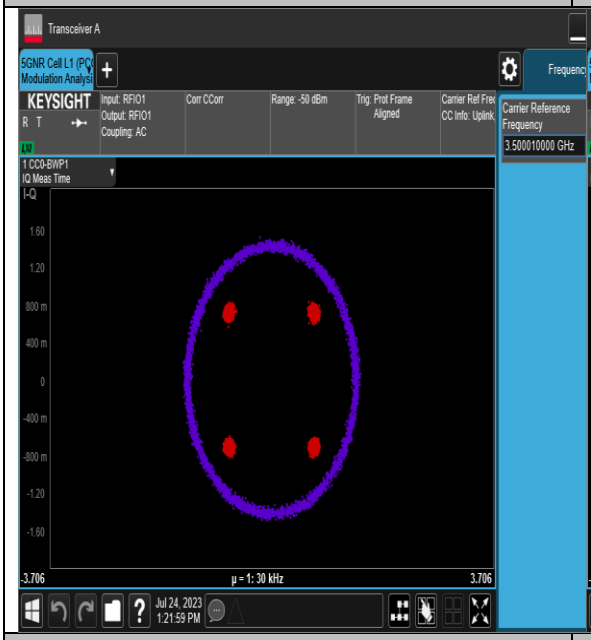

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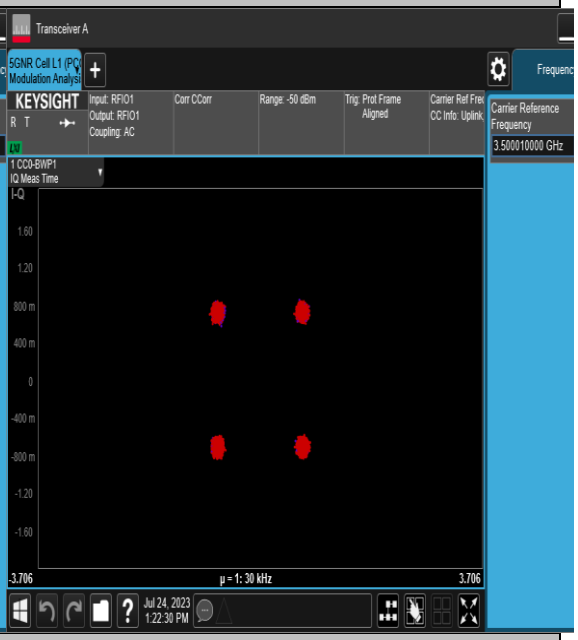

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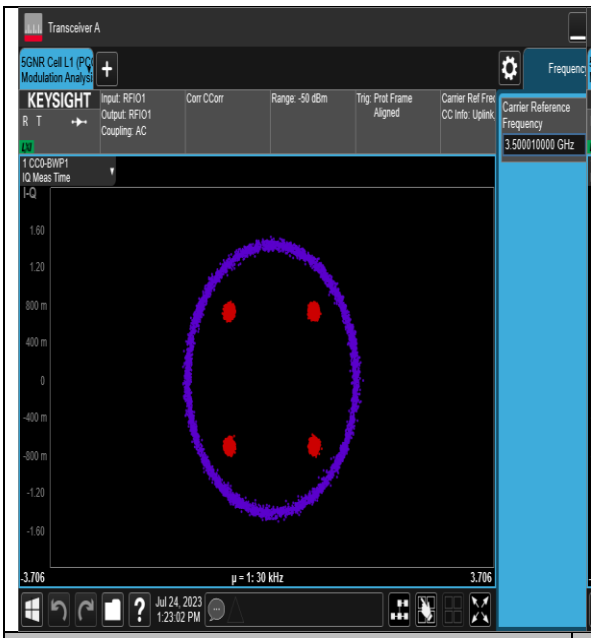

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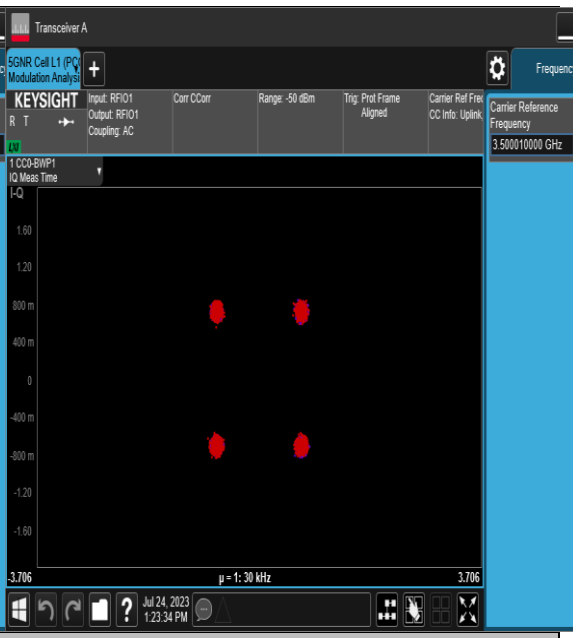

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