

Appendix for N40(2350-2360MHz)

Product Name: Smart phone

Model No: Black 6

Appendix A: Average Power Output Data

Test Result

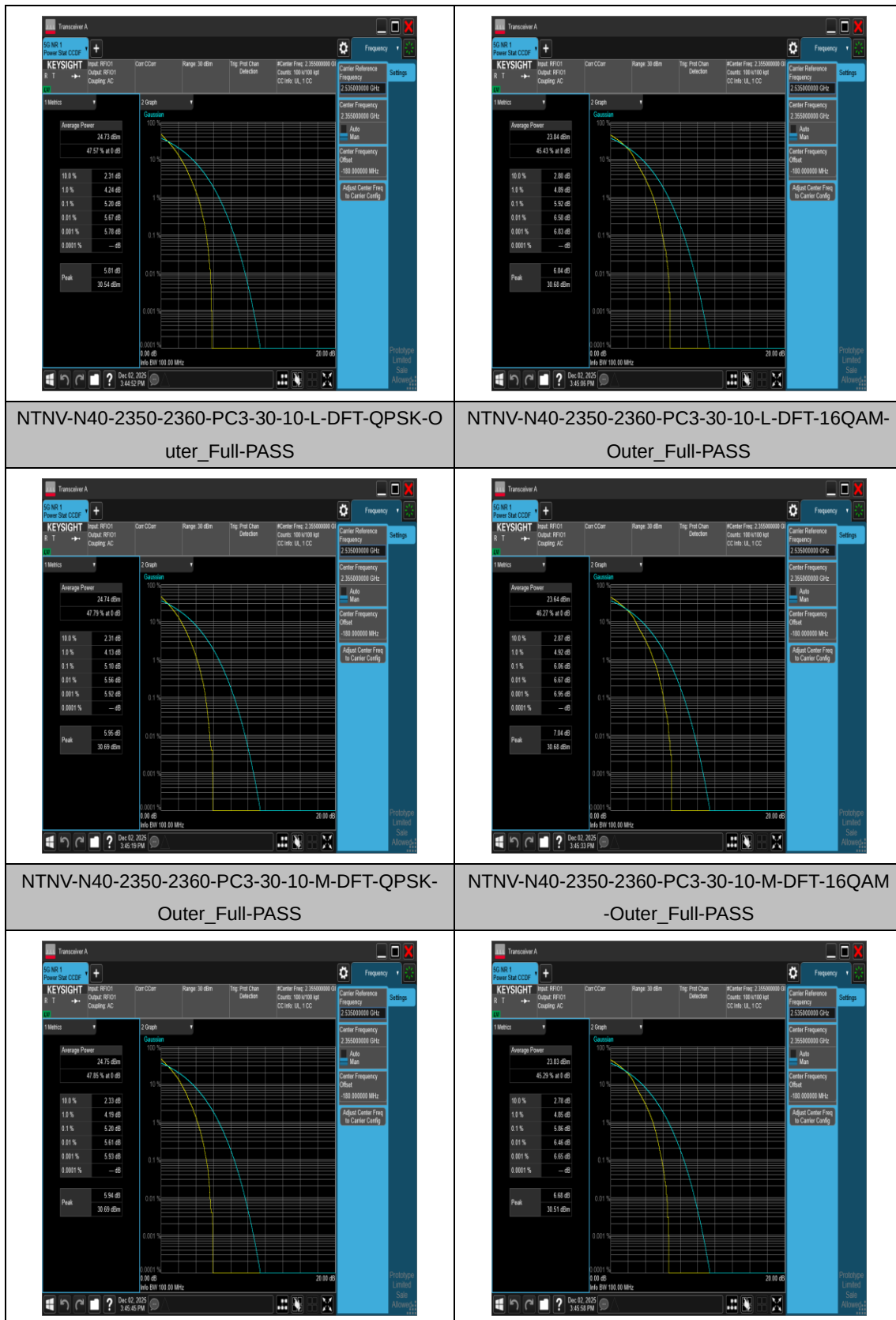
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	Power Class	Verdict
N40-2350-2360	30	10	DFT-QPSK	L	Outer_Full	23.80	PC3	PASS
N40-2350-2360	30	10	DFT-QPSK	L	Inner_Full	23.60	PC3	PASS
N40-2350-2360	30	10	DFT-QPSK	L	Edge_1RB_Left	22.26	PC3	PASS
N40-2350-2360	30	10	DFT-QPSK	L	Edge_1RB_Right	22.57	PC3	PASS
N40-2350-2360	30	10	DFT-16QAM	L	Outer_Full	21.60	PC3	PASS
N40-2350-2360	30	10	DFT-16QAM	L	Inner_Full	22.65	PC3	PASS
N40-2350-2360	30	10	DFT-16QAM	L	Edge_1RB_Left	21.99	PC3	PASS
N40-2350-2360	30	10	DFT-16QAM	L	Edge_1RB_Right	22.31	PC3	PASS
N40-2350-2360	30	10	DFT-QPSK	M	Outer_Full	22.68	PC3	PASS
N40-2350-2360	30	10	DFT-QPSK	M	Inner_Full	23.65	PC3	PASS
N40-2350-2360	30	10	DFT-QPSK	M	Edge_1RB_Left	22.35	PC3	PASS
N40-2350-2360	30	10	DFT-QPSK	M	Edge_1RB_Right	22.54	PC3	PASS
N40-2350-2360	30	10	DFT-16QAM	M	Outer_Full	21.63	PC3	PASS
N40-2350-2360	30	10	DFT-16QAM	M	Inner_Full	22.64	PC3	PASS
N40-2350-2360	30	10	DFT-16QAM	M	Edge_1RB_Left	21.94	PC3	PASS
N40-2350-2360	30	10	DFT-16QAM	M	Edge_1RB_Right	22.27	PC3	PASS
N40-2350-2360	30	10	DFT-QPSK	H	Outer_Full	22.62	PC3	PASS
N40-2350-2360	30	10	DFT-QPSK	H	Inner_Full	23.65	PC3	PASS

N40-2350 -2360	30	10	DFT-QPSK	H	Edge_1RB_Left	22.24	PC3	PASS
N40-2350 -2360	30	10	DFT-QPSK	H	Edge_1RB_Right	22.58	PC3	PASS
N40-2350 -2360	30	10	DFT-16QAM	H	Outer_Full	21.56	PC3	PASS
N40-2350 -2360	30	10	DFT-16QAM	H	Inner_Full	22.62	PC3	PASS
N40-2350 -2360	30	10	DFT-16QAM	H	Edge_1RB_Left	21.97	PC3	PASS
N40-2350 -2360	30	10	DFT-16QAM	H	Edge_1RB_Right	22.32	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
N40-2350-2360	30	10	DFT-QPSK	L	Outer_Full	5.20	≤13	PASS
N40-2350-2360	30	10	DFT-16QAM	L	Outer_Full	5.92	≤13	PASS
N40-2350-2360	30	10	DFT-QPSK	M	Outer_Full	5.10	≤13	PASS
N40-2350-2360	30	10	DFT-16QAM	M	Outer_Full	6.06	≤13	PASS
N40-2350-2360	30	10	DFT-QPSK	H	Outer_Full	5.20	≤13	PASS
N40-2350-2360	30	10	DFT-16QAM	H	Outer_Full	5.86	≤13	PASS

Test Graphs

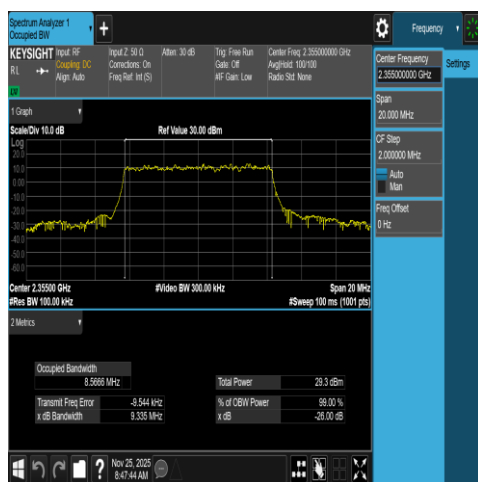


Appendix C: 26dB Bandwidth and Occupied Bandwidth for SA

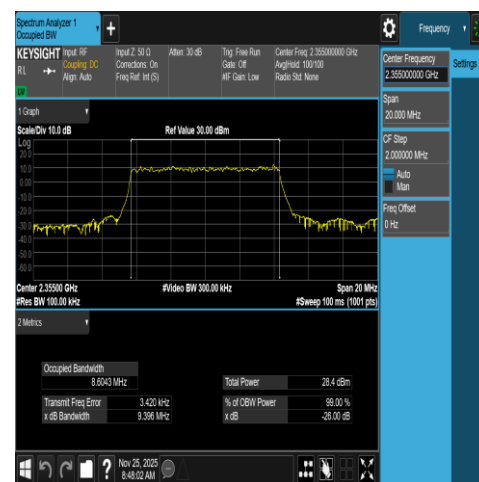
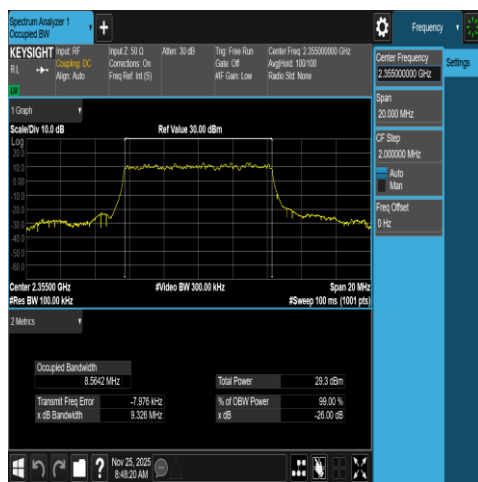
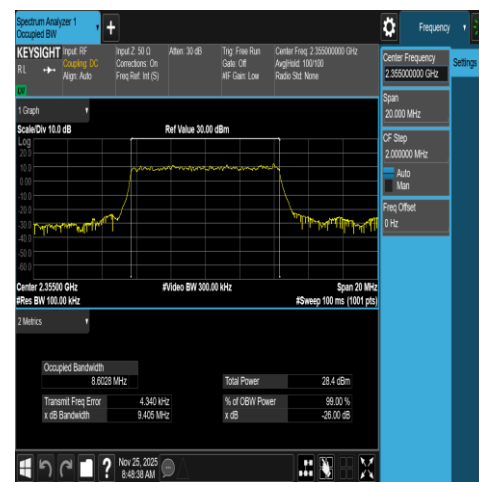
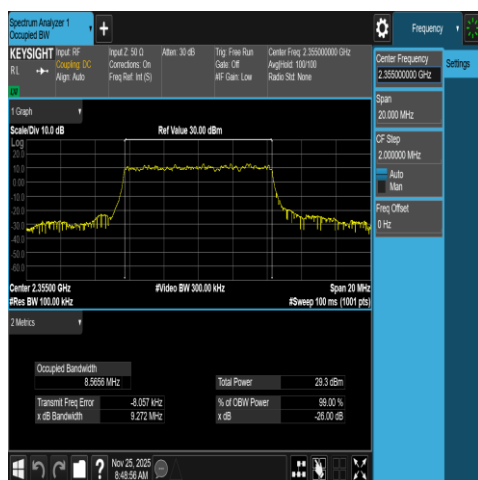
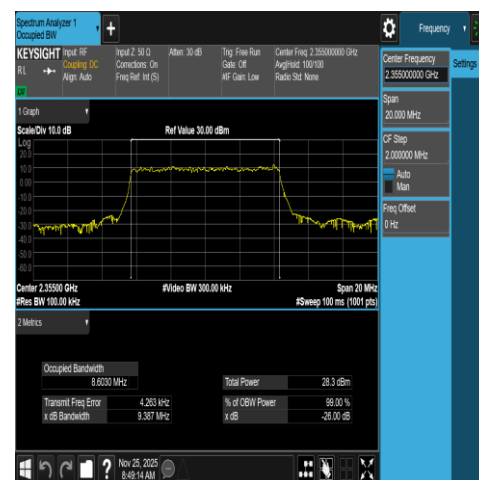
Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N40-2350 -2360	30	10	DFT-QPSK	L	Outer_Full	8.5666	9.335	PASS
N40-2350 -2360	30	10	DFT-16QAM	L	Outer_Full	8.6043	9.396	PASS
N40-2350 -2360	30	10	DFT-QPSK	M	Outer_Full	8.5642	9.326	PASS
N40-2350 -2360	30	10	DFT-16QAM	M	Outer_Full	8.6028	9.405	PASS
N40-2350 -2360	30	10	DFT-QPSK	H	Outer_Full	8.5656	9.272	PASS
N40-2350 -2360	30	10	DFT-16QAM	H	Outer_Full	8.6030	9.387	PASS

Test Graphs



NTNV-N40-2350-2360-PC3-30-10-L-DFT-QPSK-O
uter Full-Ant1-PASS

NTNV-N40-2350-2360-PC3-30-10-L-DFT-16QAM-
Outer Full-Ant1-PASSNTNV-N40-2350-2360-PC3-30-10-M-DFT-QPSK-
Outer Full-Ant1-PASSNTNV-N40-2350-2360-PC3-30-10-M-DFT-16QAM
-Outer Full-Ant1-PASSNTNV-N40-2350-2360-PC3-30-10-H-DFT-QPSK-
Outer Full-Ant1-PASS

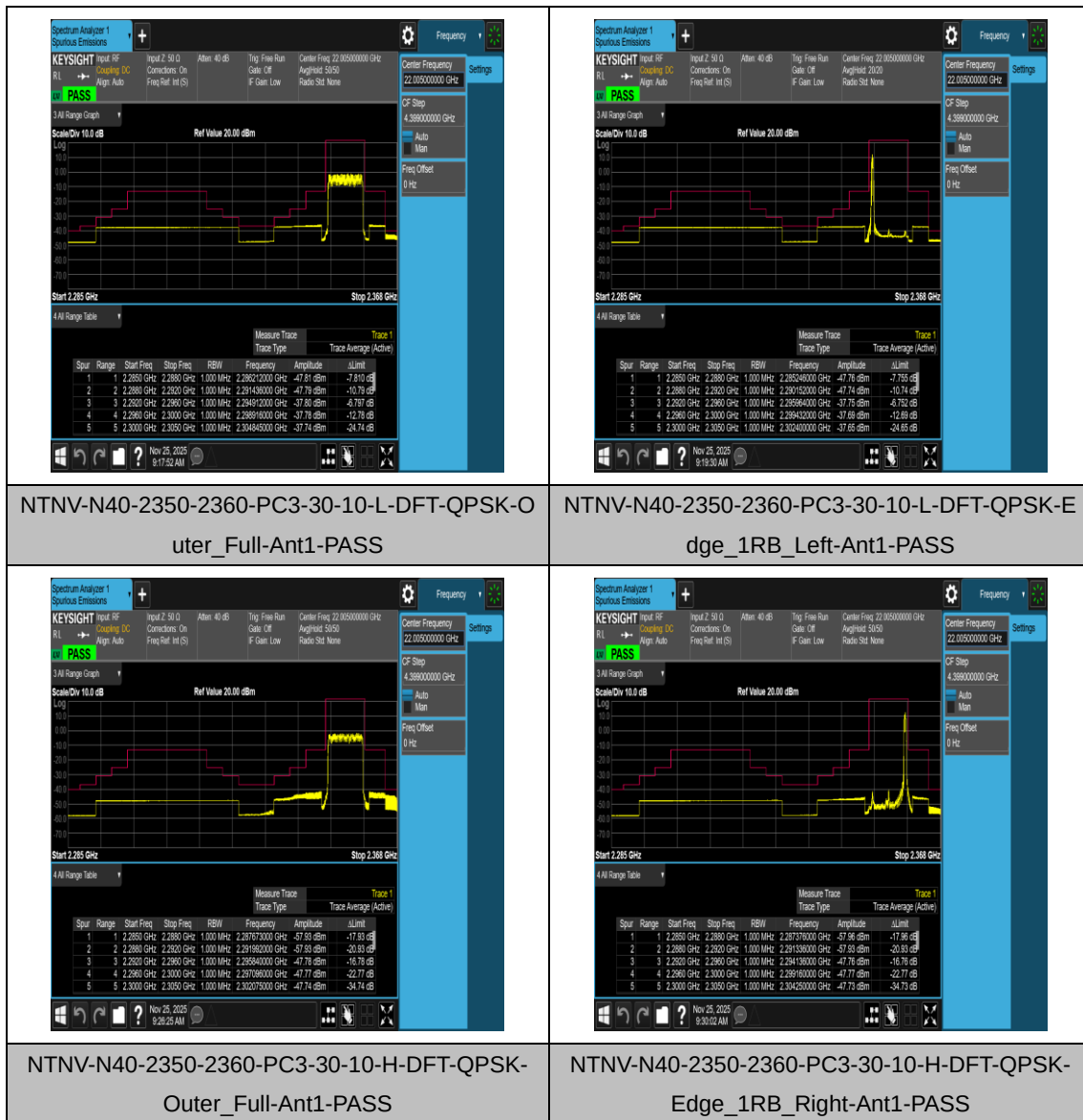
Outer Full-Ant1-PASS

Appendix D: Band Edge for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Margin	Verdict
N40-2350-2360	30	10	DFT-QPSK	L	Outer_Full	-42.57	2.57	PASS
N40-2350-2360	30	10	DFT-QPSK	L	Edge_1RB_Left	-46.07	6.07	PASS
N40-2350-2360	30	10	DFT-QPSK	H	Outer_Full	-44.04	4.04	PASS
N40-2350-2360	30	10	DFT-QPSK	H	Edge_1RB_Right	-51.70	11.70	PASS

Test Graphs



Appendix E: Conducted Spurious Emission for SA

Test Result

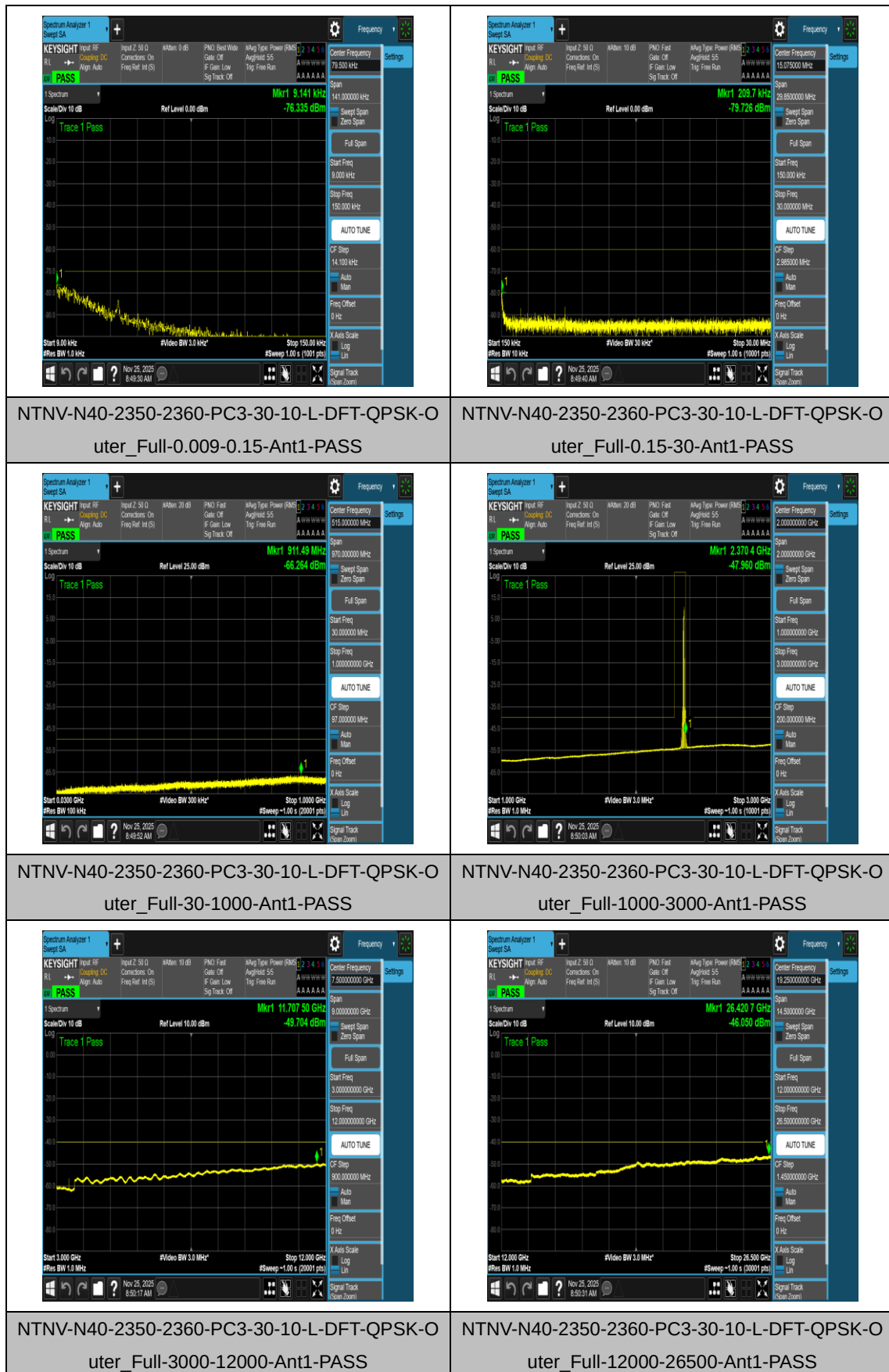
Band	SCS	Bandwidth	Modulation	Channel	RB Config	StartFreq	StopFreq	Result	Limit	Verdict
N40-2 350-23 60	30	10	DFT-QPSK	L	Outer_Full	0.009	0.15	-76.34	-70	PASS
N40-2 350-23 60	30	10	DFT-QPSK	L	Outer_Full	0.15	30	-79.73	-60	PASS
N40-2 350-23 60	30	10	DFT-QPSK	L	Outer_Full	30	1000	-66.26	-50	PASS
N40-2 350-23 60	30	10	DFT-QPSK	L	Outer_Full	1000	3000	-47.96	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	L	Outer_Full	3000	12000	-49.70	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	L	Outer_Full	12000	26500	-46.05	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	L	Edge_1RB_Left	0.009	0.15	-76.03	-70	PASS
N40-2 350-23 60	30	10	DFT-QPSK	L	Edge_1RB_Left	0.15	30	-76.89	-60	PASS
N40-2 350-23 60	30	10	DFT-QPSK	L	Edge_1RB_Left	30	1000	-66.38	-50	PASS
N40-2 350-23 60	30	10	DFT-QPSK	L	Edge_1RB_Left	1000	3000	-49.77	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	L	Edge_1RB_Left	3000	12000	-49.62	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	L	Edge_1RB_Left	12000	26500	-45.98	-40	PASS

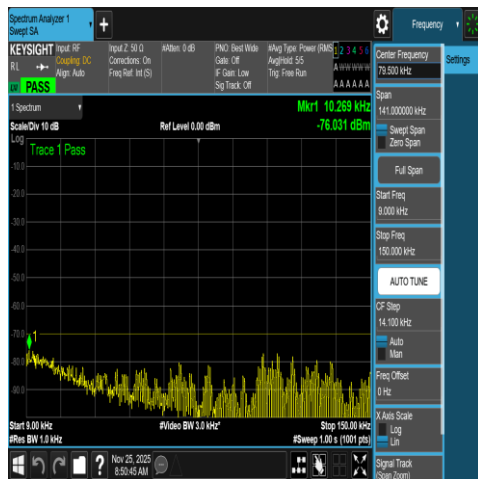
N40-2 350-23 60	30	10	DFT-QPSK	L	Edge_1RB_Right	0.009	0.15	-75.63	-70	PASS
N40-2 350-23 60	30	10	DFT-QPSK	L	Edge_1RB_Right	0.15	30	-75.55	-60	PASS
N40-2 350-23 60	30	10	DFT-QPSK	L	Edge_1RB_Right	30	1000	-66.12	-50	PASS
N40-2 350-23 60	30	10	DFT-QPSK	L	Edge_1RB_Right	1000	3000	-51.48	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	L	Edge_1RB_Right	3000	12000	-49.62	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	L	Edge_1RB_Right	12000	26500	-46.20	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	M	Outer_Full	0.009	0.15	-75.18	-70	PASS
N40-2 350-23 60	30	10	DFT-QPSK	M	Outer_Full	0.15	30	-78.93	-60	PASS
N40-2 350-23 60	30	10	DFT-QPSK	M	Outer_Full	30	1000	-66.53	-50	PASS
N40-2 350-23 60	30	10	DFT-QPSK	M	Outer_Full	1000	3000	-45.35	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	M	Outer_Full	3000	12000	-49.74	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	M	Outer_Full	12000	26500	-45.96	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	M	Edge_1RB_Left	0.009	0.15	-76.53	-70	PASS
N40-2 350-23 60	30	10	DFT-QPSK	M	Edge_1RB_Left	0.15	30	-75.21	-60	PASS
N40-2 350-23 60	30	10	DFT-QPSK	M	Edge_1RB_Left	30	1000	-66.20	-50	PASS

350-23 60										
N40-2 350-23 60	30	10	DFT-QPSK	M	Edge_1RB_Left	1000	3000	-51.71	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	M	Edge_1RB_Left	3000	12000	-49.55	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	M	Edge_1RB_Left	12000	26500	-45.77	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	M	Edge_1RB_Right	0.009	0.15	-75.18	-70	PASS
N40-2 350-23 60	30	10	DFT-QPSK	M	Edge_1RB_Right	0.15	30	-77.59	-60	PASS
N40-2 350-23 60	30	10	DFT-QPSK	M	Edge_1RB_Right	30	1000	-66.34	-50	PASS
N40-2 350-23 60	30	10	DFT-QPSK	M	Edge_1RB_Right	1000	3000	-52.13	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	M	Edge_1RB_Right	3000	12000	-49.57	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	M	Edge_1RB_Right	12000	26500	-46.08	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	H	Outer_Full	0.009	0.15	-75.76	-70	PASS
N40-2 350-23 60	30	10	DFT-QPSK	H	Outer_Full	0.15	30	-78.18	-60	PASS
N40-2 350-23 60	30	10	DFT-QPSK	H	Outer_Full	30	1000	-66.51	-50	PASS
N40-2 350-23 60	30	10	DFT-QPSK	H	Outer_Full	1000	3000	-42.55	-40	PASS
N40-2 350-23	30	10	DFT-QPSK	H	Outer_Full	3000	12000	-49.67	-40	PASS

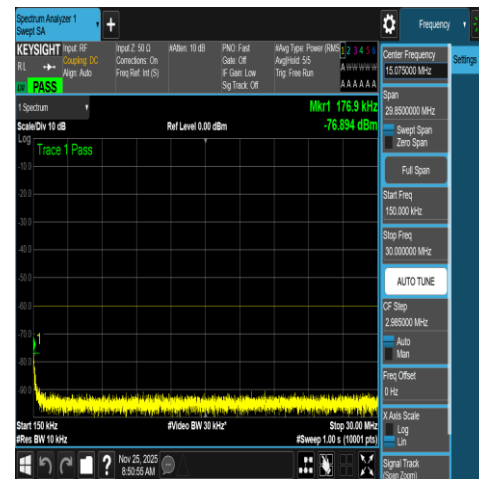
60										
N40-2 350-23 60	30	10	DFT-QPSK	H	Outer_Full	12000	26500	-45.72	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	H	Edge_1RB_Left	0.009	0.15	-76.52	-70	PASS
N40-2 350-23 60	30	10	DFT-QPSK	H	Edge_1RB_Left	0.15	30	-77.43	-60	PASS
N40-2 350-23 60	30	10	DFT-QPSK	H	Edge_1RB_Left	30	1000	-66.52	-50	PASS
N40-2 350-23 60	30	10	DFT-QPSK	H	Edge_1RB_Left	1000	3000	-49.90	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	H	Edge_1RB_Left	3000	12000	-49.40	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	H	Edge_1RB_Left	12000	26500	-46.09	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	H	Edge_1RB_Right	0.009	0.15	-76.24	-70	PASS
N40-2 350-23 60	30	10	DFT-QPSK	H	Edge_1RB_Right	0.15	30	-77.00	-60	PASS
N40-2 350-23 60	30	10	DFT-QPSK	H	Edge_1RB_Right	30	1000	-66.15	-50	PASS
N40-2 350-23 60	30	10	DFT-QPSK	H	Edge_1RB_Right	1000	3000	-52.14	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	H	Edge_1RB_Right	3000	12000	-49.62	-40	PASS
N40-2 350-23 60	30	10	DFT-QPSK	H	Edge_1RB_Right	12000	26500	-45.94	-40	PASS

Test Graphs





NTNV-N40-2350-2360-PC3-30-10-L-DFT-QPSK-E
dge_1RB_Left-0.009-0.15-Ant1-PASS



NTNV-N40-2350-2360-PC3-30-10-L-DFT-QPSK-E
dge_1RB_Left-0.15-30-Ant1-PASS



NTNV-N40-2350-2360-PC3-30-10-L-DFT-QPSK-E
dge_1RB_Left-30-1000-Ant1-PASS



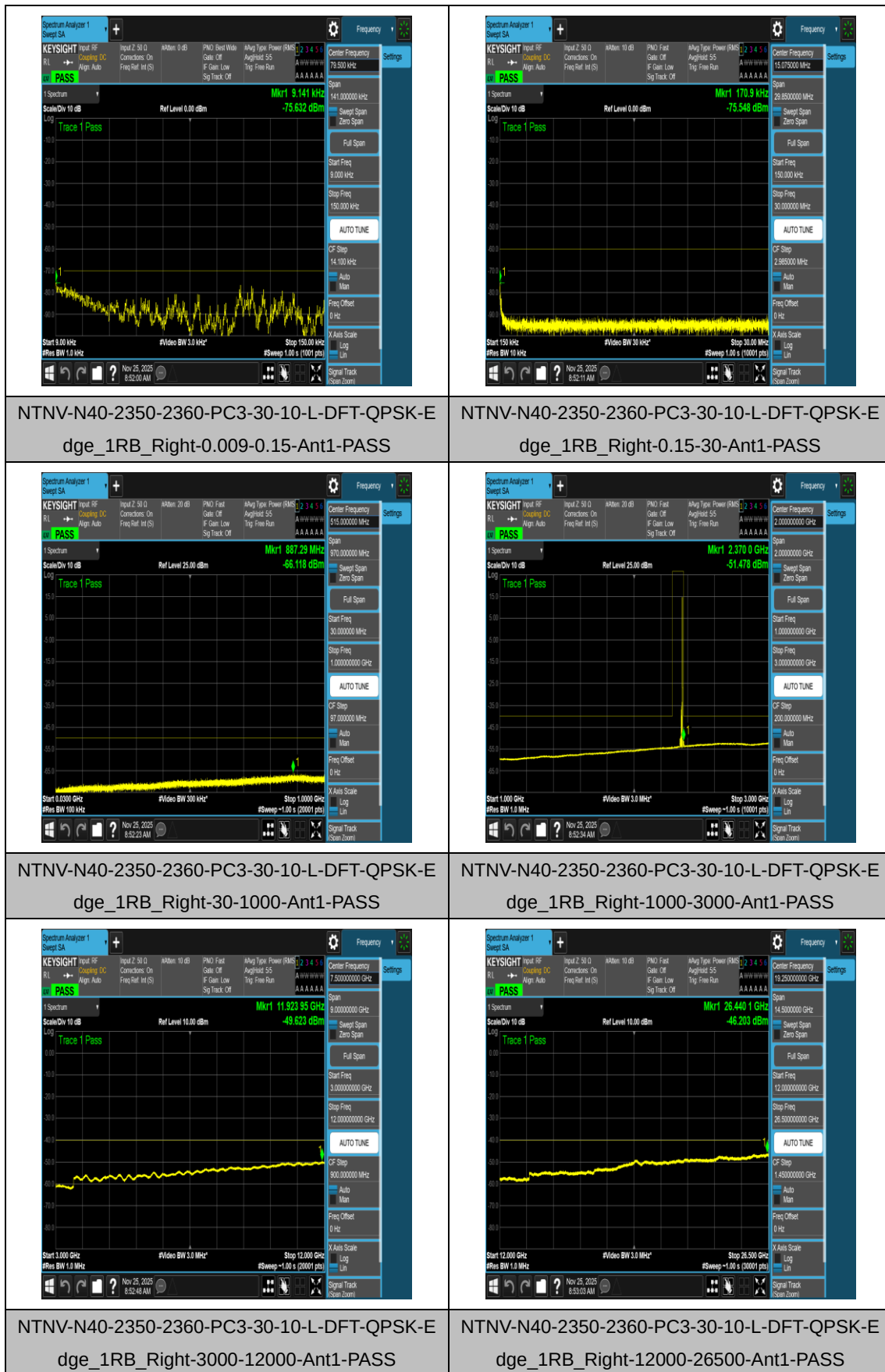
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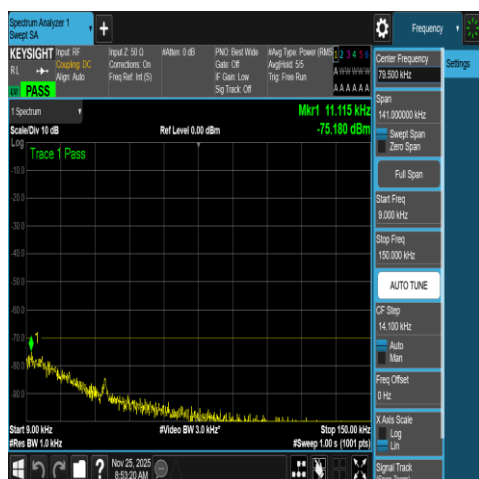
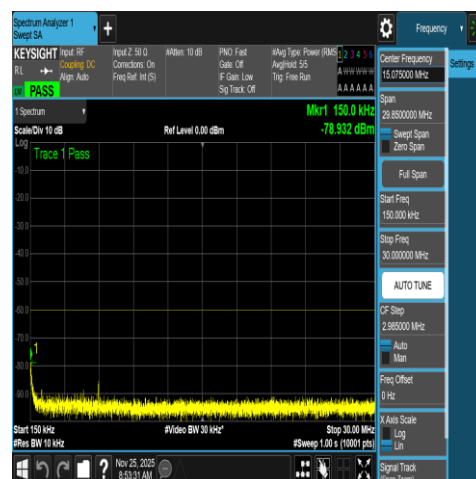
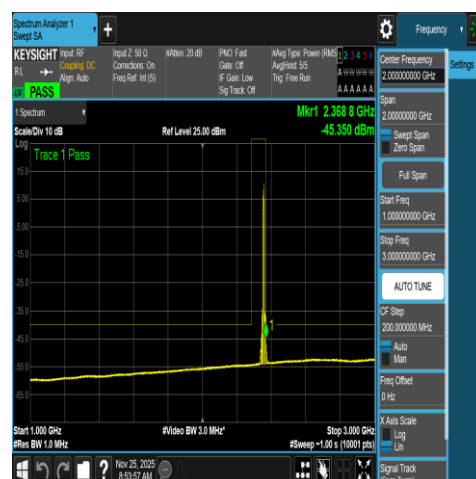


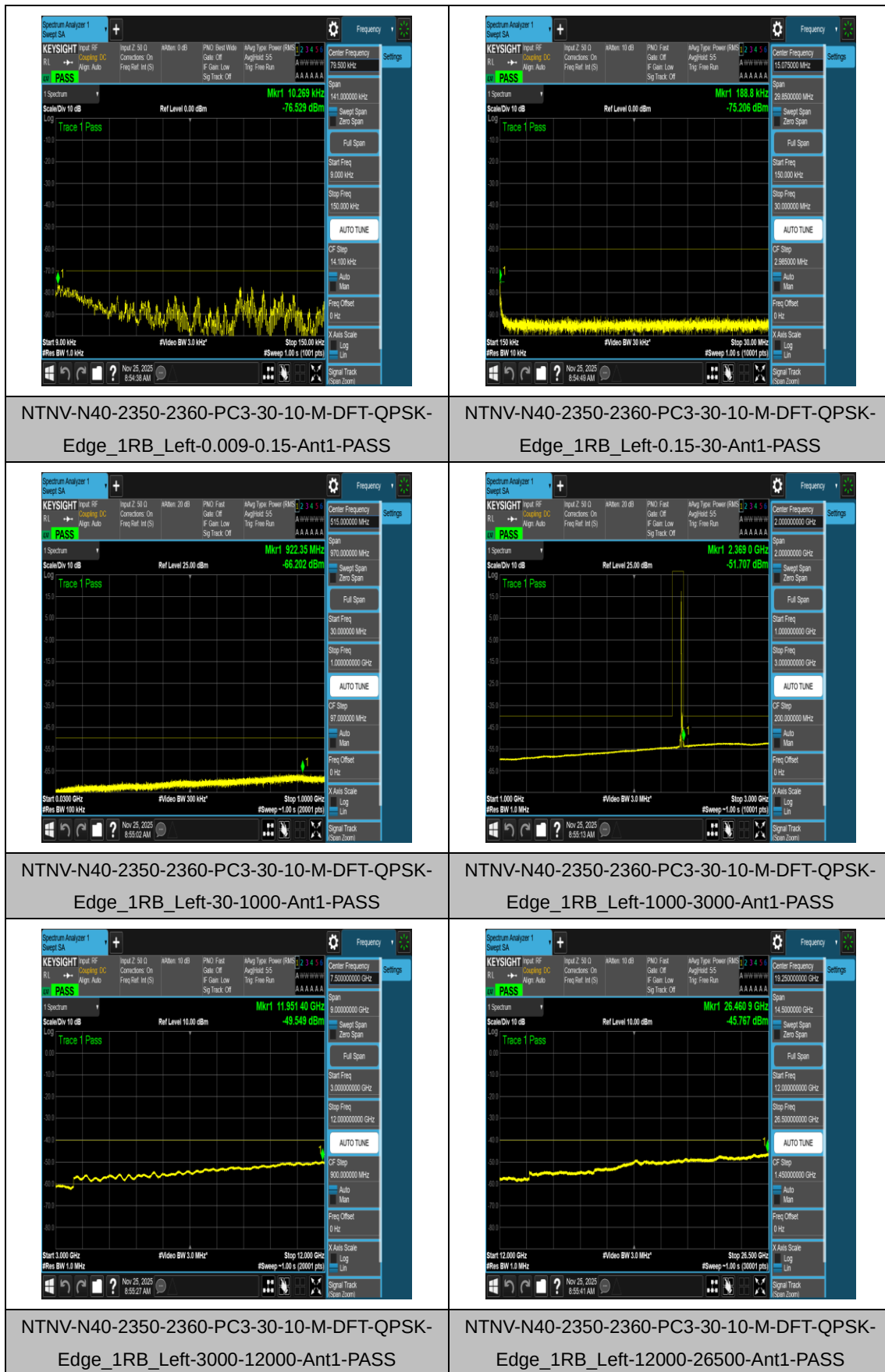
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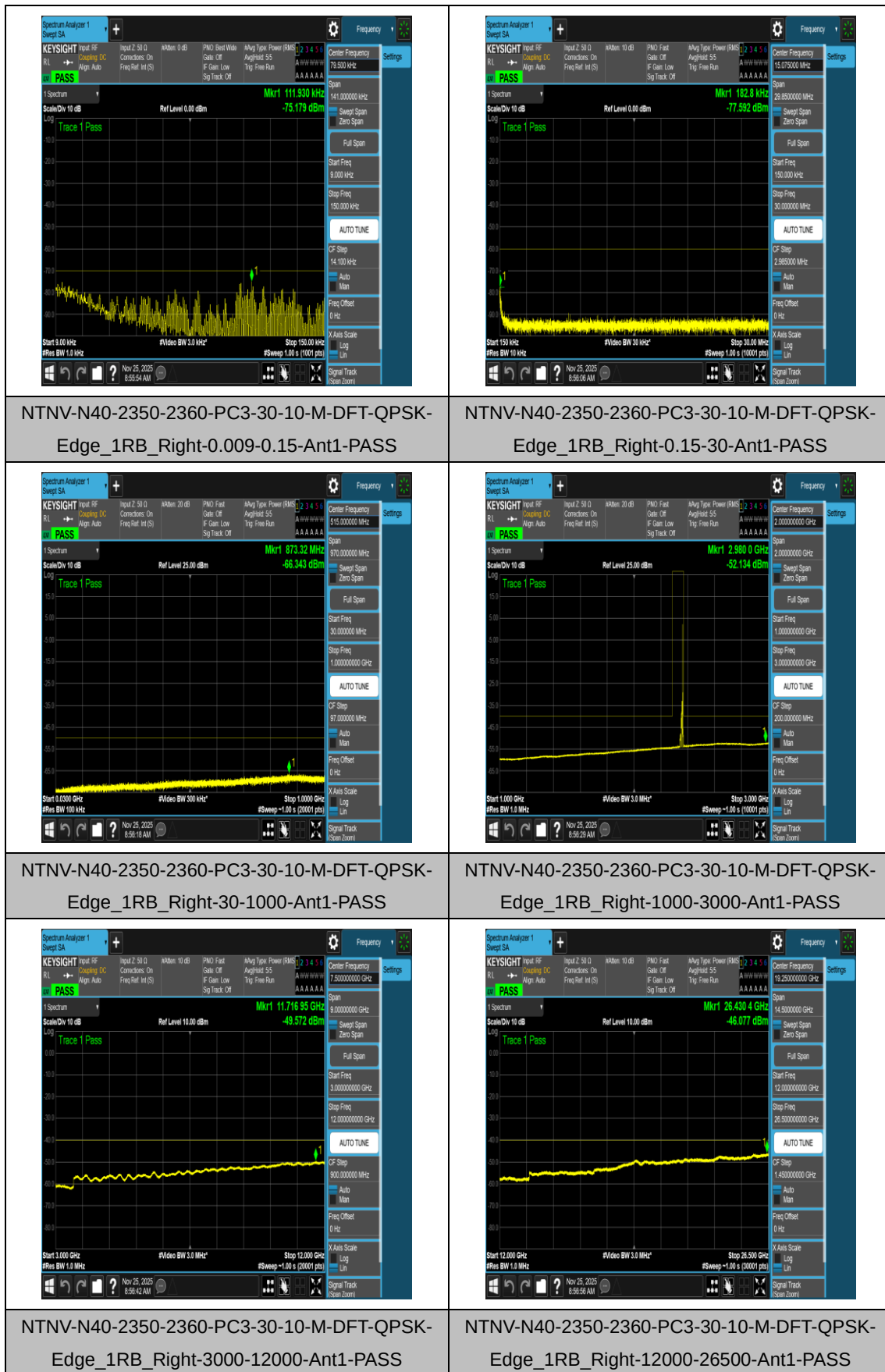


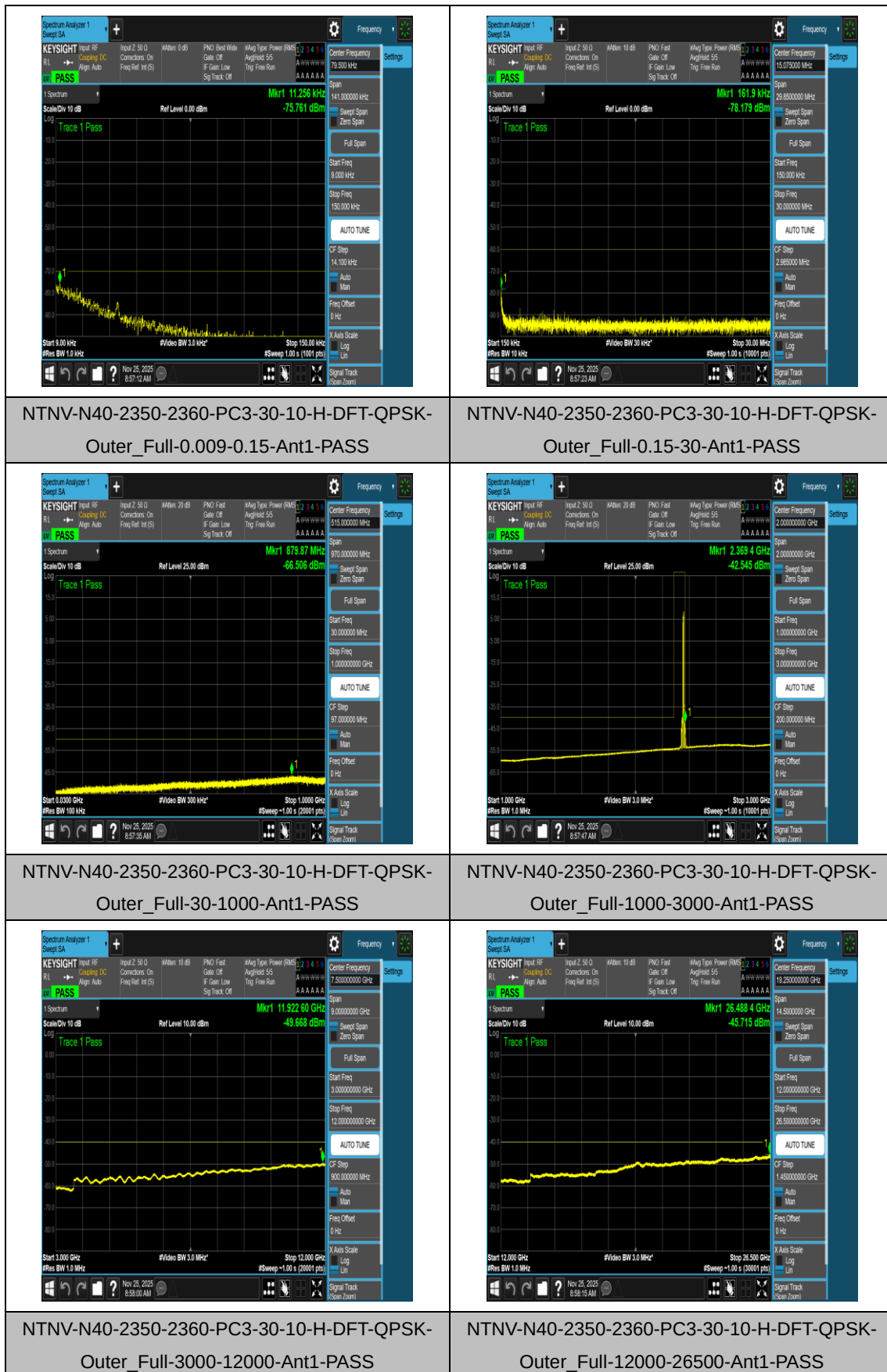
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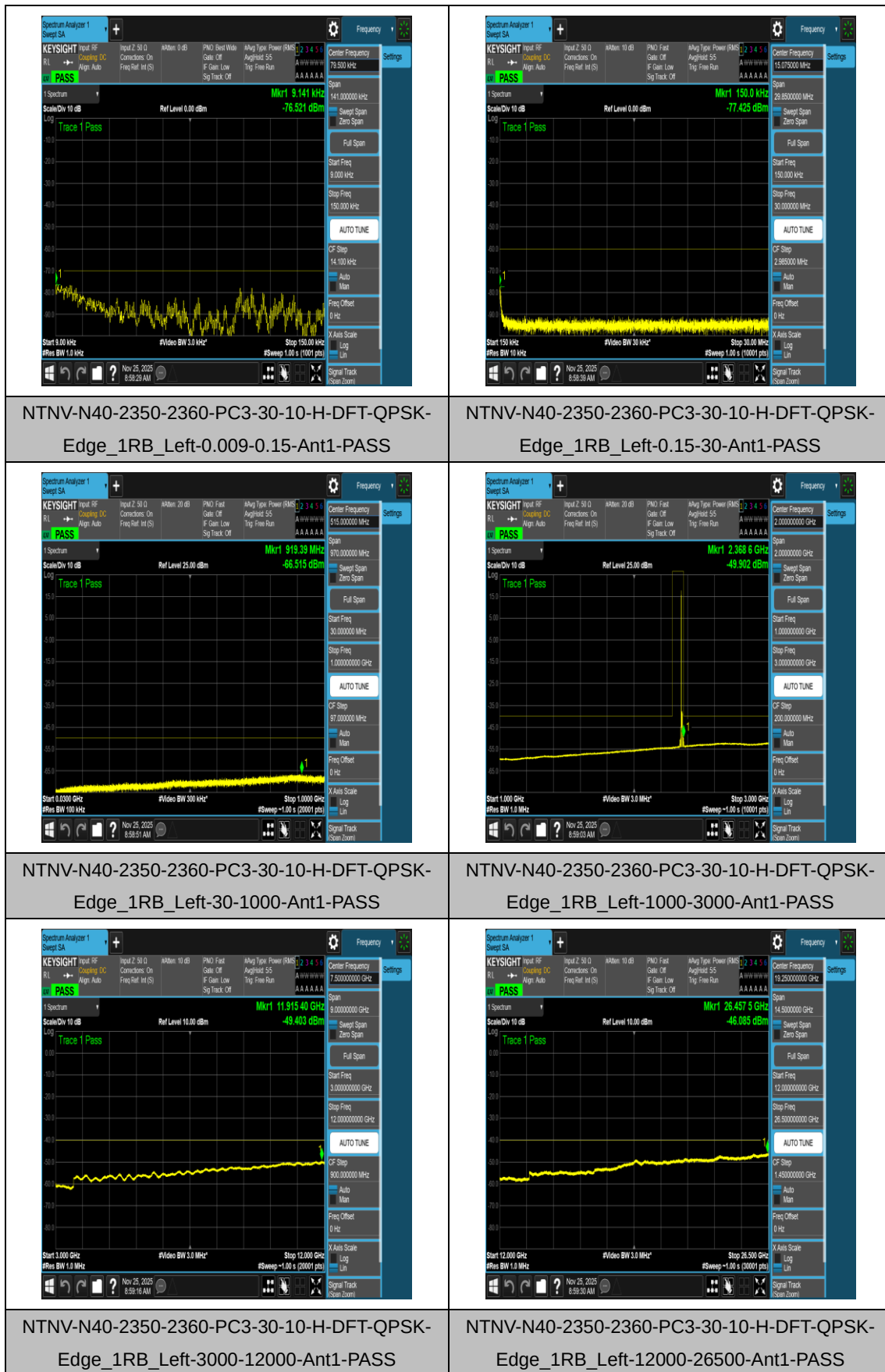


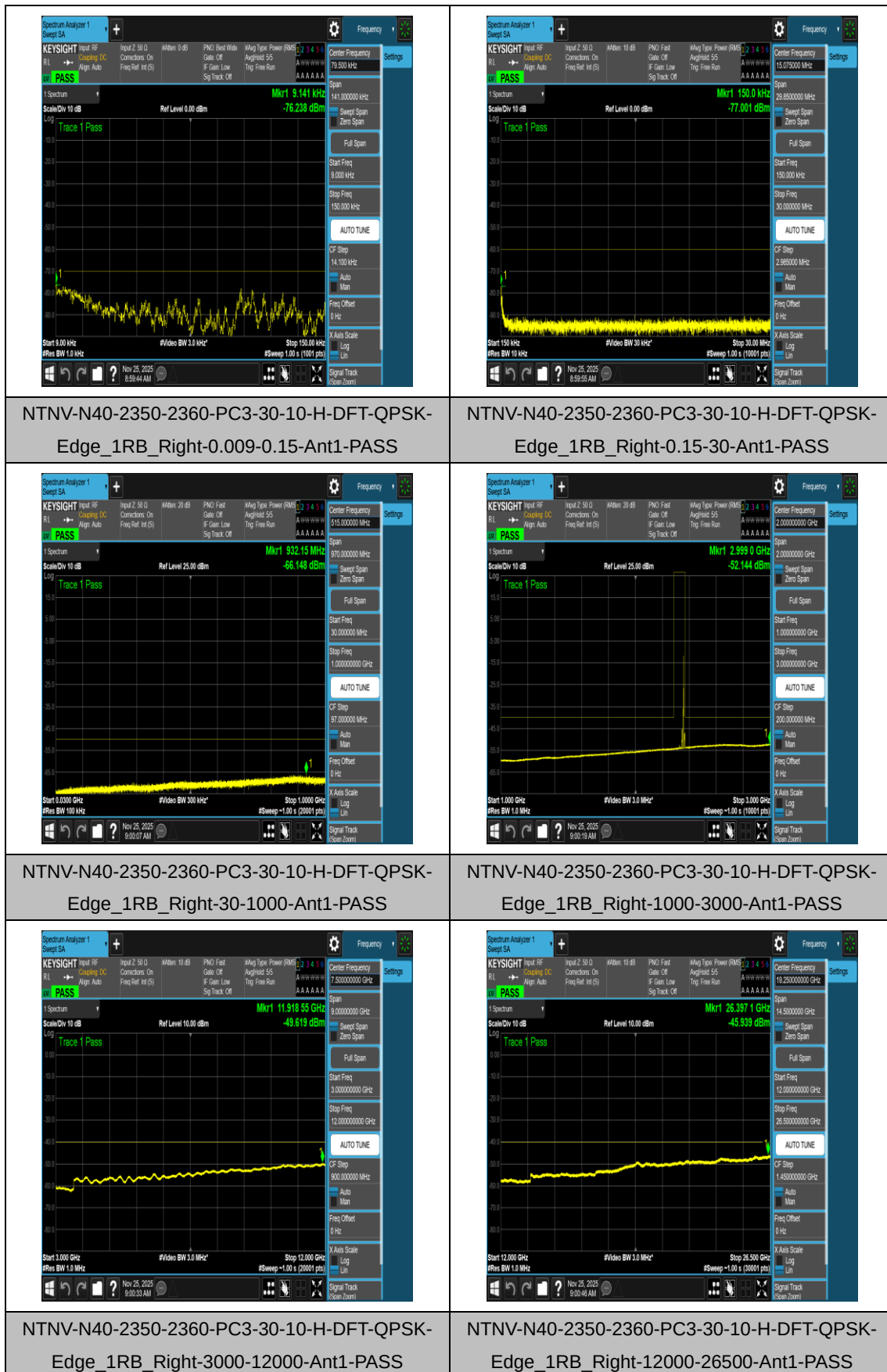
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Outer Full-0.009-0.15-Ant1-PASSNTNV-N40-2350-2360-PC3-30-10-M-DFT-QPSK-
Outer Full-0.15-30-Ant1-PASSNTNV-N40-2350-2360-PC3-30-10-M-DFT-QPSK-
Outer_Full-30-1000-Ant1-PASSNTNV-N40-2350-2360-PC3-30-10-M-DFT-QPSK-
Outer_Full-1000-3000-Ant1-PASSNTNV-N40-2350-2360-PC3-30-10-M-DFT-QPSK-
Outer Full-3000-12000-Ant1-PASSNTNV-N40-2350-2360-PC3-30-10-M-DFT-QPSK-
Outer_Full-12000-26500-Ant1-PASS











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
N40-235 0-2360	30	10	DFT-QPSK	L	Outer_Full	VL	NT	-6.840000	-0.002904	PASS
N40-235 0-2360	30	10	DFT-QPSK	L	Outer_Full	VN	NT	-6.410000	-0.002722	PASS
N40-235 0-2360	30	10	DFT-QPSK	L	Outer_Full	VH	NT	-7.000000	-0.002972	PASS
N40-235 0-2360	30	10	DFT-16QAM	L	Outer_Full	VL	NT	-1.070000	-0.000454	PASS
N40-235 0-2360	30	10	DFT-16QAM	L	Outer_Full	VN	NT	-13.920000	-0.005911	PASS
N40-235 0-2360	30	10	DFT-16QAM	L	Outer_Full	VH	NT	-12.110000	-0.005142	PASS
N40-235 0-2360	30	10	DFT-QPSK	M	Outer_Full	VL	NT	-10.280000	-0.004365	PASS
N40-235 0-2360	30	10	DFT-QPSK	M	Outer_Full	VN	NT	-8.260000	-0.003507	PASS
N40-235 0-2360	30	10	DFT-QPSK	M	Outer_Full	VH	NT	2.180000	0.000926	PASS
N40-235 0-2360	30	10	DFT-16QAM	M	Outer_Full	VL	NT	-7.160000	-0.003040	PASS
N40-235 0-2360	30	10	DFT-16QAM	M	Outer_Full	VN	NT	-9.920000	-0.004212	PASS
N40-235 0-2360	30	10	DFT-16QAM	M	Outer_Full	VH	NT	-4.090000	-0.001737	PASS
N40-235 0-2360	30	10	DFT-QPSK	H	Outer_Full	VL	NT	-7.040000	-0.002989	PASS
N40-235 0-2360	30	10	DFT-QPSK	H	Outer_Full	VN	NT	-11.140000	-0.004730	PASS
N40-235 0-2360	30	10	DFT-QPSK	H	Outer_Full	VH	NT	-14.760000	-0.006268	PASS
N40-235 0-2360	30	10	DFT-16QAM	H	Outer_Full	VL	NT	-5.720000	-0.002429	PASS

N40-235 0-2360	30	10	DFT-16QAM	H	Outer_Full	VN	NT	-3.320000	-0.001410	PASS
N40-235 0-2360	30	10	DFT-16QAM	H	Outer_Full	VH	NT	-7.920000	-0.003363	PASS

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N40-235 0-2360	30	10	DFT-QPSK	L	Outer_Full	NV	-30	2.210000	0.000938	PASS
N40-235 0-2360	30	10	DFT-QPSK	L	Outer_Full	NV	-20	-9.440000	-0.004008	PASS
N40-235 0-2360	30	10	DFT-QPSK	L	Outer_Full	NV	-10	1.640000	0.000696	PASS
N40-235 0-2360	30	10	DFT-QPSK	L	Outer_Full	NV	0	-8.760000	-0.003720	PASS
N40-235 0-2360	30	10	DFT-QPSK	L	Outer_Full	NV	10	2.200000	0.000934	PASS
N40-235 0-2360	30	10	DFT-QPSK	L	Outer_Full	NV	20	-5.830000	-0.002476	PASS
N40-235 0-2360	30	10	DFT-QPSK	L	Outer_Full	NV	30	-6.330000	-0.002688	PASS
N40-235 0-2360	30	10	DFT-QPSK	L	Outer_Full	NV	40	-3.120000	-0.001325	PASS
N40-235 0-2360	30	10	DFT-QPSK	L	Outer_Full	NV	50	-6.540000	-0.002777	PASS
N40-235 0-2360	30	10	DFT-16QAM	L	Outer_Full	NV	-30	-3.350000	-0.001423	PASS
N40-235 0-2360	30	10	DFT-16QAM	L	Outer_Full	NV	-20	-3.830000	-0.001626	PASS
N40-235 0-2360	30	10	DFT-16QAM	L	Outer_Full	NV	-10	0.260000	0.000110	PASS
N40-235 0-2360	30	10	DFT-16QAM	L	Outer_Full	NV	0	-7.800000	-0.003312	PASS
N40-235 0-2360	30	10	DFT-16QAM	L	Outer_Full	NV	10	-5.480000	-0.002327	PASS
N40-235 0-2360	30	10	DFT-16QAM	L	Outer_Full	NV	20	-7.450000	-0.003163	PASS
N40-235 0-2360	30	10	DFT-16QAM	L	Outer_Full	NV	30	-9.100000	-0.003864	PASS

N40-235 0-2360	30	10	DFT-16QAM	L	Outer_Full	NV	40	-3.400000	-0.001444	PASS
N40-235 0-2360	30	10	DFT-16QAM	L	Outer_Full	NV	50	-4.220000	-0.001792	PASS
N40-235 0-2360	30	10	DFT-QPSK	M	Outer_Full	NV	-30	-6.960000	-0.002955	PASS
N40-235 0-2360	30	10	DFT-QPSK	M	Outer_Full	NV	-20	-8.240000	-0.003499	PASS
N40-235 0-2360	30	10	DFT-QPSK	M	Outer_Full	NV	-10	-8.240000	-0.003499	PASS
N40-235 0-2360	30	10	DFT-QPSK	M	Outer_Full	NV	0	-10.420000	-0.004425	PASS
N40-235 0-2360	30	10	DFT-QPSK	M	Outer_Full	NV	10	-8.340000	-0.003541	PASS
N40-235 0-2360	30	10	DFT-QPSK	M	Outer_Full	NV	20	-4.430000	-0.001881	PASS
N40-235 0-2360	30	10	DFT-QPSK	M	Outer_Full	NV	30	-4.870000	-0.002068	PASS
N40-235 0-2360	30	10	DFT-QPSK	M	Outer_Full	NV	40	-7.760000	-0.003295	PASS
N40-235 0-2360	30	10	DFT-QPSK	M	Outer_Full	NV	50	-0.350000	-0.000149	PASS
N40-235 0-2360	30	10	DFT-16QAM	M	Outer_Full	NV	-30	-8.080000	-0.003431	PASS
N40-235 0-2360	30	10	DFT-16QAM	M	Outer_Full	NV	-20	-8.120000	-0.003448	PASS
N40-235 0-2360	30	10	DFT-16QAM	M	Outer_Full	NV	-10	-7.410000	-0.003146	PASS
N40-235 0-2360	30	10	DFT-16QAM	M	Outer_Full	NV	0	-19.170000	-0.008140	PASS
N40-235 0-2360	30	10	DFT-16QAM	M	Outer_Full	NV	10	-7.520000	-0.003193	PASS
N40-235 0-2360	30	10	DFT-16QAM	M	Outer_Full	NV	20	-9.400000	-0.003992	PASS
N40-235 0-2360	30	10	DFT-16QAM	M	Outer_Full	NV	30	-1.750000	-0.000743	PASS
N40-235 0-2360	30	10	DFT-16QAM	M	Outer_Full	NV	40	-2.900000	-0.001231	PASS
N40-235 0-2360	30	10	DFT-16QAM	M	Outer_Full	NV	50	-3.130000	-0.001329	PASS
N40-235 0-2360	30	10	DFT-QPSK	H	Outer_Full	NV	-30	-15.230000	-0.006467	PASS

N40-235 0-2360	30	10	DFT-QPSK	H	Outer_Full	NV	-20	-12.410000	-0.005270	PASS
N40-235 0-2360	30	10	DFT-QPSK	H	Outer_Full	NV	-10	-9.350000	-0.003970	PASS
N40-235 0-2360	30	10	DFT-QPSK	H	Outer_Full	NV	0	0.380000	0.000161	PASS
N40-235 0-2360	30	10	DFT-QPSK	H	Outer_Full	NV	10	-7.170000	-0.003045	PASS
N40-235 0-2360	30	10	DFT-QPSK	H	Outer_Full	NV	20	-10.590000	-0.004497	PASS
N40-235 0-2360	30	10	DFT-QPSK	H	Outer_Full	NV	30	-10.110000	-0.004293	PASS
N40-235 0-2360	30	10	DFT-QPSK	H	Outer_Full	NV	40	-7.560000	-0.003210	PASS
N40-235 0-2360	30	10	DFT-QPSK	H	Outer_Full	NV	50	-9.880000	-0.004195	PASS
N40-235 0-2360	30	10	DFT-16QAM	H	Outer_Full	NV	-30	-7.250000	-0.003079	PASS
N40-235 0-2360	30	10	DFT-16QAM	H	Outer_Full	NV	-20	-6.340000	-0.002692	PASS
N40-235 0-2360	30	10	DFT-16QAM	H	Outer_Full	NV	-10	-7.910000	-0.003359	PASS
N40-235 0-2360	30	10	DFT-16QAM	H	Outer_Full	NV	0	-0.320000	-0.000136	PASS
N40-235 0-2360	30	10	DFT-16QAM	H	Outer_Full	NV	10	-6.760000	-0.002870	PASS
N40-235 0-2360	30	10	DFT-16QAM	H	Outer_Full	NV	20	-3.680000	-0.001563	PASS
N40-235 0-2360	30	10	DFT-16QAM	H	Outer_Full	NV	30	-9.130000	-0.003877	PASS
N40-235 0-2360	30	10	DFT-16QAM	H	Outer_Full	NV	40	-8.860000	-0.003762	PASS
N40-235 0-2360	30	10	DFT-16QAM	H	Outer_Full	NV	50	-9.480000	-0.004025	PASS