

APPENDIX S NR_SA RF TEST DATA

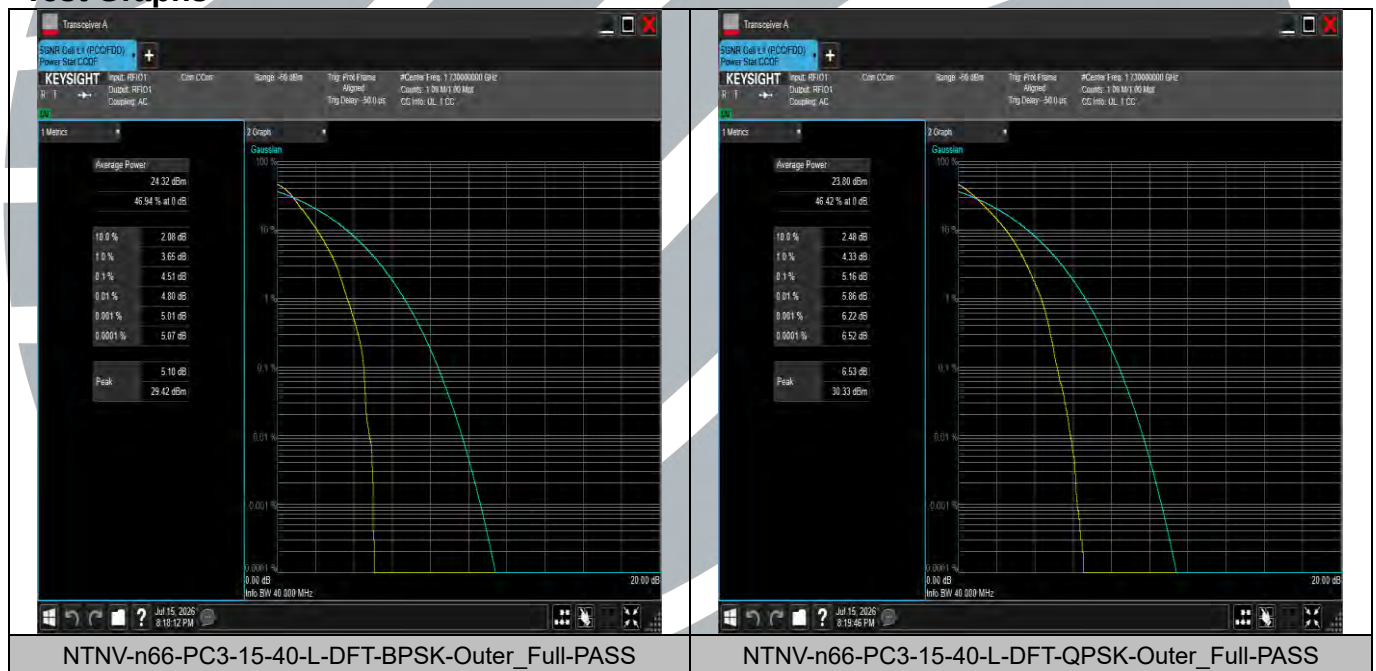
S.1 PEAK-TO-AVERAGE RATIO FOR SA

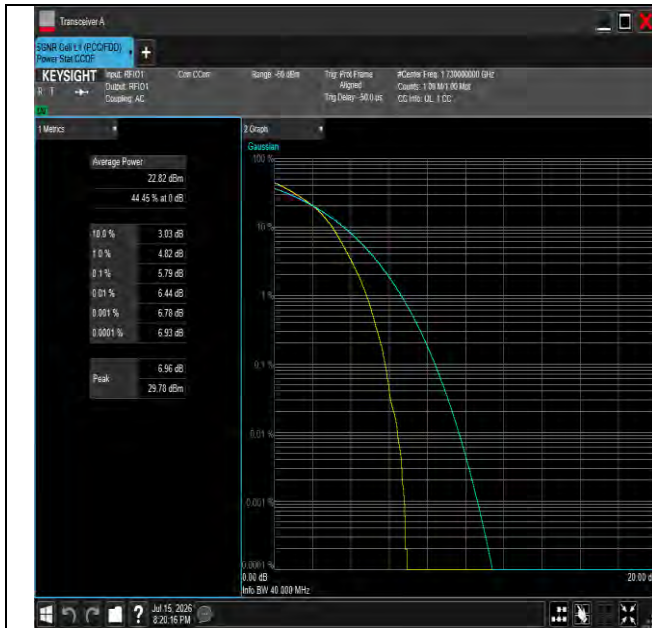
Peak-to-Average Ratio(CCDFF)

Test Result

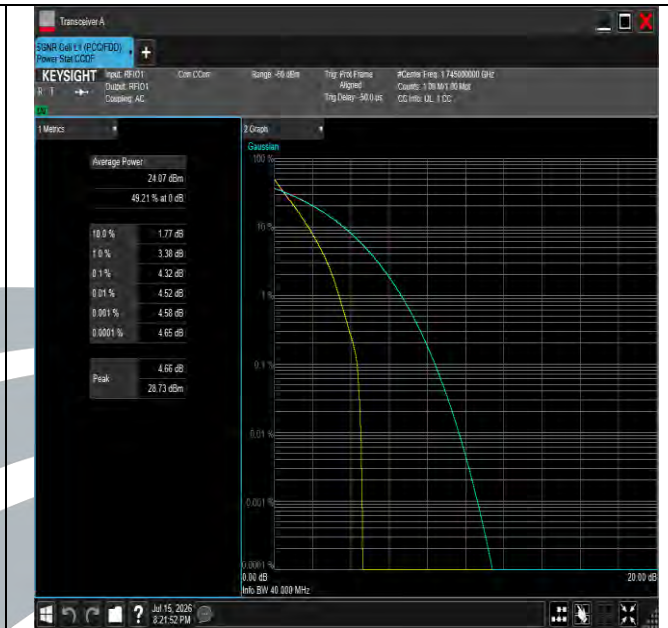
Band	SCS (kHz)	BW (MHz)	Modulation	Ch.	RB Config	Result (dB)	Limit	Verdict
n66	15	40	DFT-BPSK	L	Outer_Full	4.51	≤13dB	PASS
n66	15	40	DFT-QPSK	L	Outer_Full	5.16	≤13dB	PASS
n66	15	40	DFT-16QAM	L	Outer_Full	5.79	≤13dB	PASS
n66	15	40	DFT-BPSK	M	Outer_Full	4.32	≤13dB	PASS
n66	15	40	DFT-QPSK	M	Outer_Full	4.94	≤13dB	PASS
n66	15	40	DFT-16QAM	M	Outer_Full	5.68	≤13dB	PASS
n66	15	40	DFT-BPSK	H	Outer_Full	4.64	≤13dB	PASS
n66	15	40	DFT-QPSK	H	Outer_Full	5.34	≤13dB	PASS
n66	15	40	DFT-16QAM	H	Outer_Full	5.96	≤13dB	PASS

Test Graphs

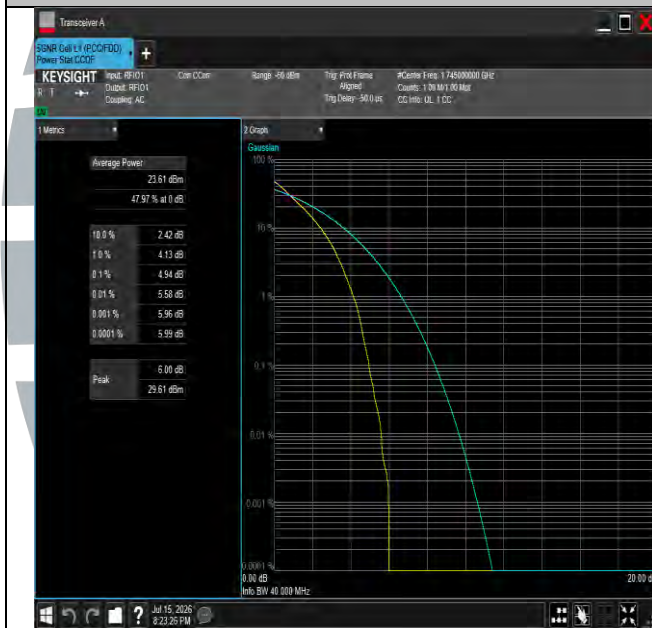




NTNV-n66-PC3-15-40-L-DFT-16QAM-Outter_Full-PASS



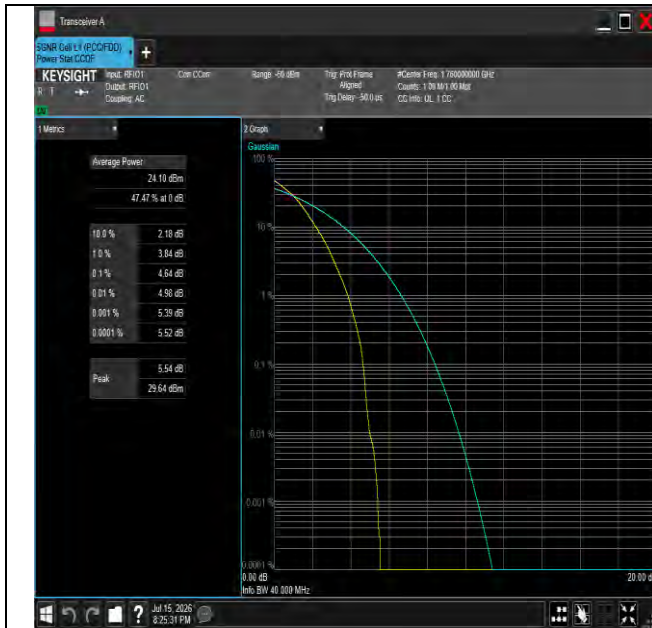
NTNV-n66-PC3-15-40-M-DFT-BPSK-Outter_Full-PASS



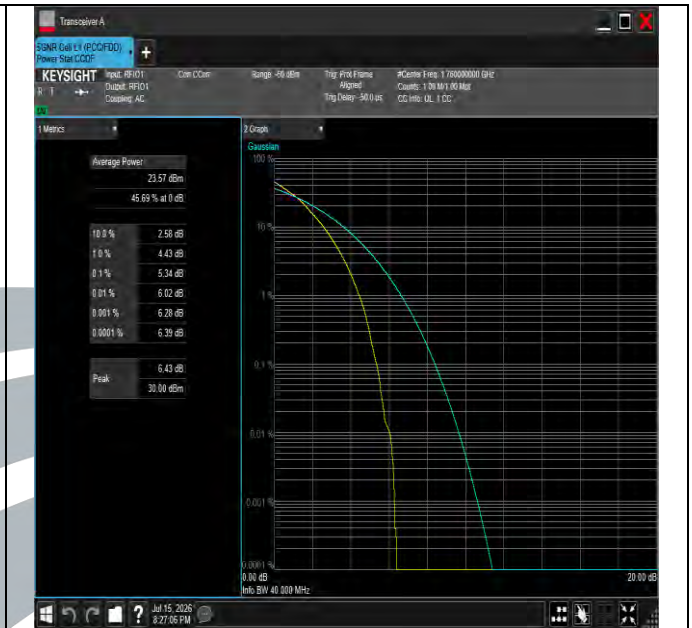
NTNV-n66-PC3-15-40-M-DFT-QPSK-Outter_Full-PASS



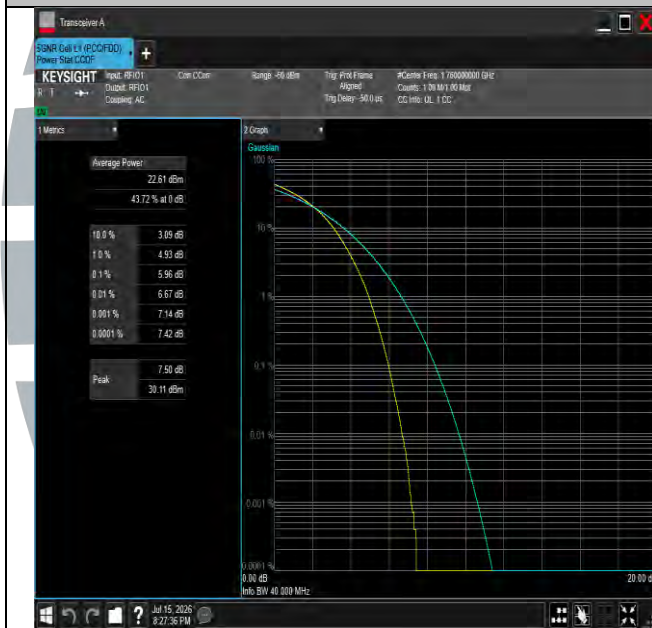
NTNV-n66-PC3-15-40-M-DFT-16QAM-Outter_Full-PASS



NTNV-n66-PC3-15-40-H-DFT-BPSK-Outer_Full-PASS



NTNV-n66-PC3-15-40-H-DFT-QPSK-Outer_Full-PASS



NTNV-n66-PC3-15-40-H-DFT-16QAM-Outer_Full-PASS

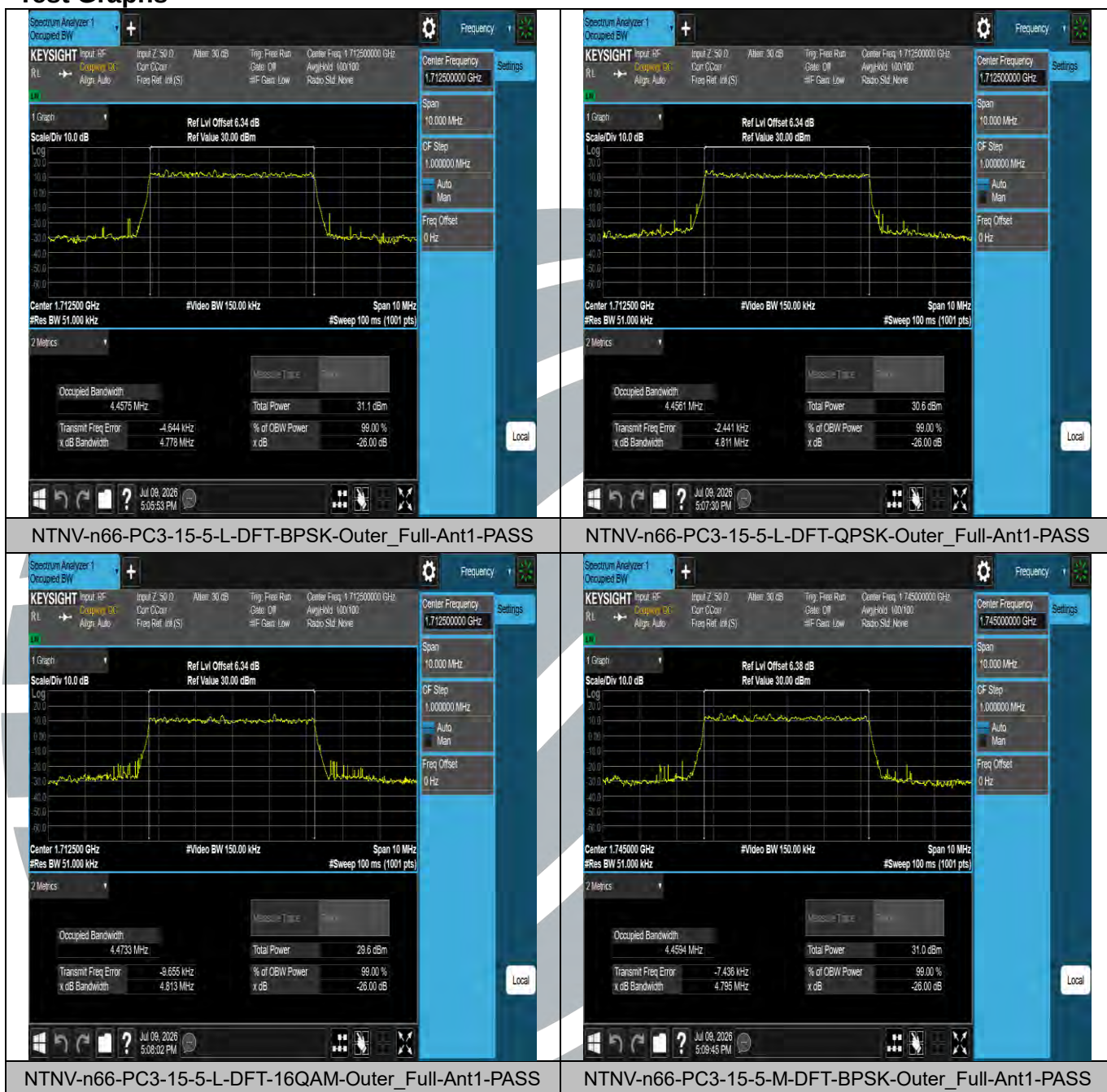
S.2 26DB BANDWIDTH AND OCCUPIED BANDWIDTH FOR SA

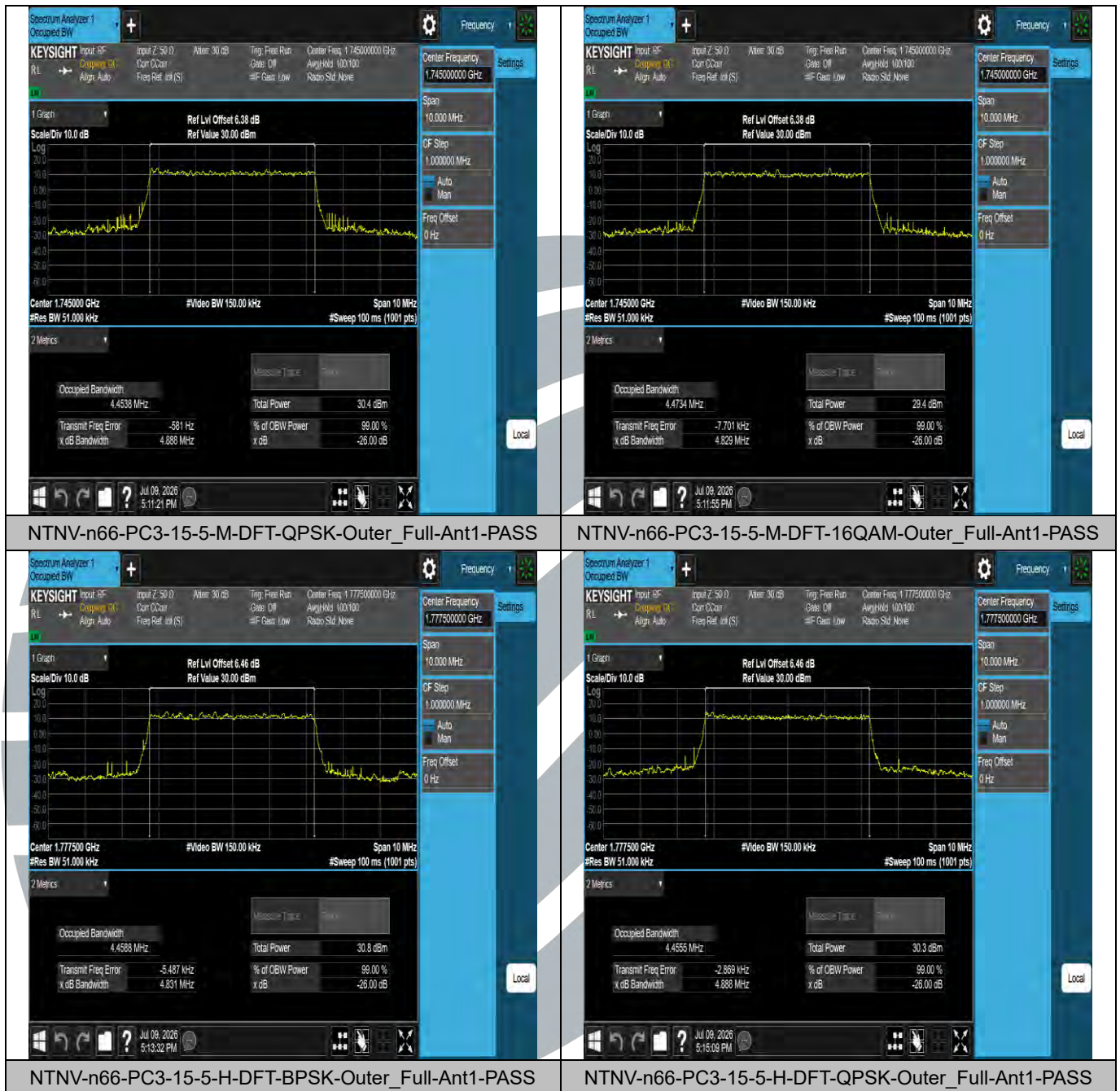
Test Result

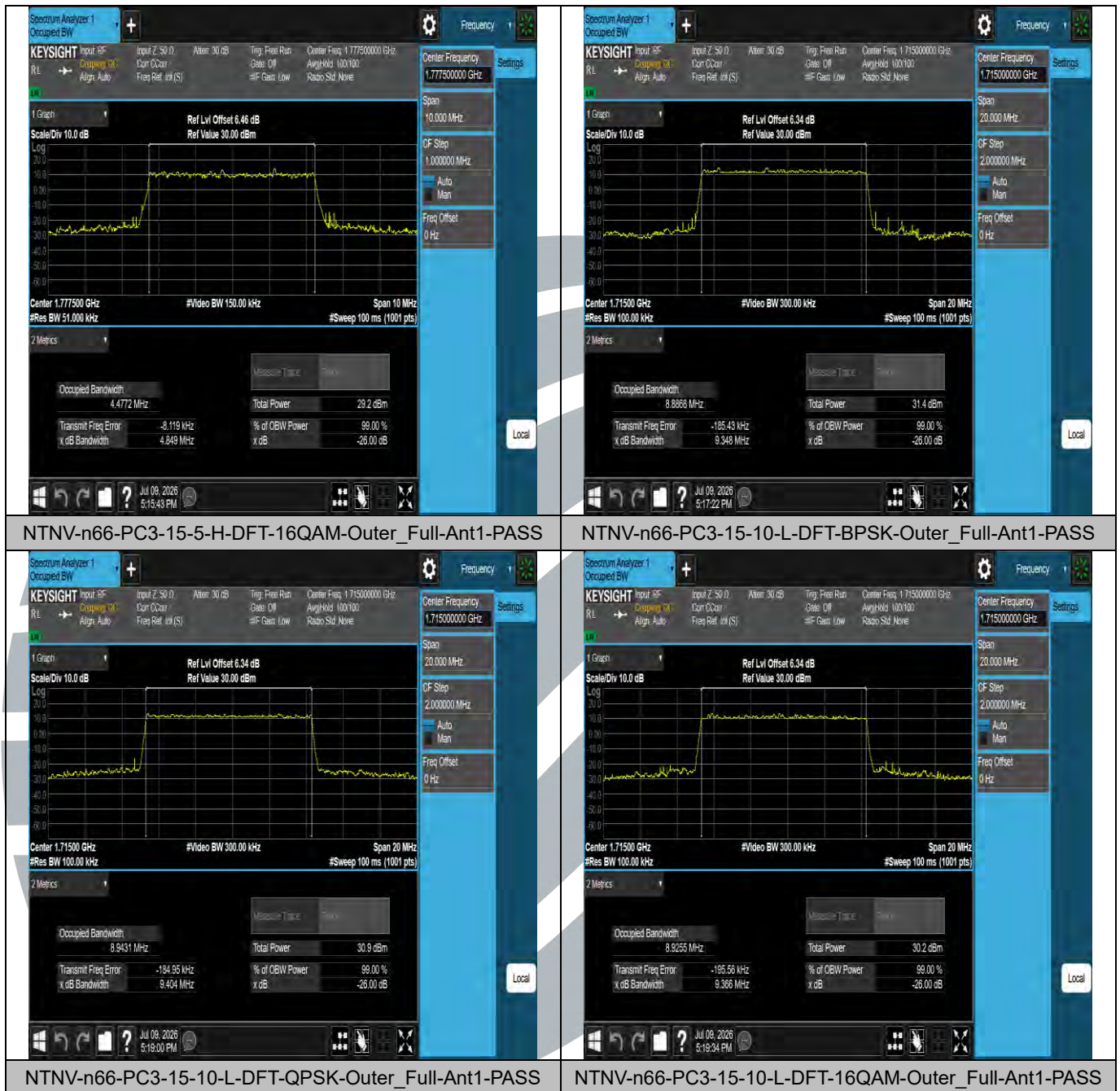
Band	SCS (kHz)	BW (MHz)	Modulation	Ch.	RB Config	99% BW Result (MHz)	26dB BW Result (MHz)	Verdict
n66	15	5	DFT-BPSK	L	Outer_Full	4.4575	4.778	PASS
n66	15	5	DFT-QPSK	L	Outer_Full	4.4561	4.811	PASS
n66	15	5	DFT-16QAM	L	Outer_Full	4.4733	4.813	PASS
n66	15	5	DFT-BPSK	M	Outer_Full	4.4594	4.795	PASS
n66	15	5	DFT-QPSK	M	Outer_Full	4.4538	4.888	PASS
n66	15	5	DFT-16QAM	M	Outer_Full	4.4734	4.829	PASS
n66	15	5	DFT-BPSK	H	Outer_Full	4.4588	4.831	PASS
n66	15	5	DFT-QPSK	H	Outer_Full	4.4555	4.888	PASS
n66	15	5	DFT-16QAM	H	Outer_Full	4.4772	4.849	PASS
n66	15	10	DFT-BPSK	L	Outer_Full	8.8868	9.348	PASS
n66	15	10	DFT-QPSK	L	Outer_Full	8.9431	9.404	PASS
n66	15	10	DFT-16QAM	L	Outer_Full	8.9255	9.366	PASS
n66	15	10	DFT-BPSK	M	Outer_Full	8.9056	9.361	PASS
n66	15	10	DFT-QPSK	M	Outer_Full	8.9357	9.389	PASS
n66	15	10	DFT-16QAM	M	Outer_Full	8.9196	9.355	PASS
n66	15	10	DFT-BPSK	H	Outer_Full	8.9279	9.349	PASS
n66	15	10	DFT-QPSK	H	Outer_Full	8.9427	9.542	PASS
n66	15	10	DFT-16QAM	H	Outer_Full	8.9231	9.347	PASS
n66	15	15	DFT-BPSK	L	Outer_Full	13.434	14.32	PASS
n66	15	15	DFT-QPSK	L	Outer_Full	13.397	14.03	PASS
n66	15	15	DFT-16QAM	L	Outer_Full	13.415	14.04	PASS
n66	15	15	DFT-BPSK	M	Outer_Full	13.418	14.16	PASS
n66	15	15	DFT-QPSK	M	Outer_Full	13.384	13.98	PASS
n66	15	15	DFT-16QAM	M	Outer_Full	13.371	14.37	PASS
n66	15	15	DFT-BPSK	H	Outer_Full	13.427	14.20	PASS
n66	15	15	DFT-QPSK	H	Outer_Full	13.418	14.00	PASS
n66	15	15	DFT-16QAM	H	Outer_Full	13.394	14.60	PASS
n66	15	20	DFT-BPSK	L	Outer_Full	17.911	18.67	PASS
n66	15	20	DFT-QPSK	L	Outer_Full	17.866	18.99	PASS
n66	15	20	DFT-16QAM	L	Outer_Full	17.881	18.71	PASS
n66	15	20	DFT-BPSK	M	Outer_Full	17.880	18.63	PASS
n66	15	20	DFT-QPSK	M	Outer_Full	17.823	18.88	PASS
n66	15	20	DFT-16QAM	M	Outer_Full	17.831	18.66	PASS
n66	15	20	DFT-BPSK	H	Outer_Full	17.865	18.59	PASS
n66	15	20	DFT-QPSK	H	Outer_Full	17.829	18.79	PASS
n66	15	20	DFT-16QAM	H	Outer_Full	17.843	18.65	PASS
n66	15	25	DFT-BPSK	L	Outer_Full	22.888	24.64	PASS

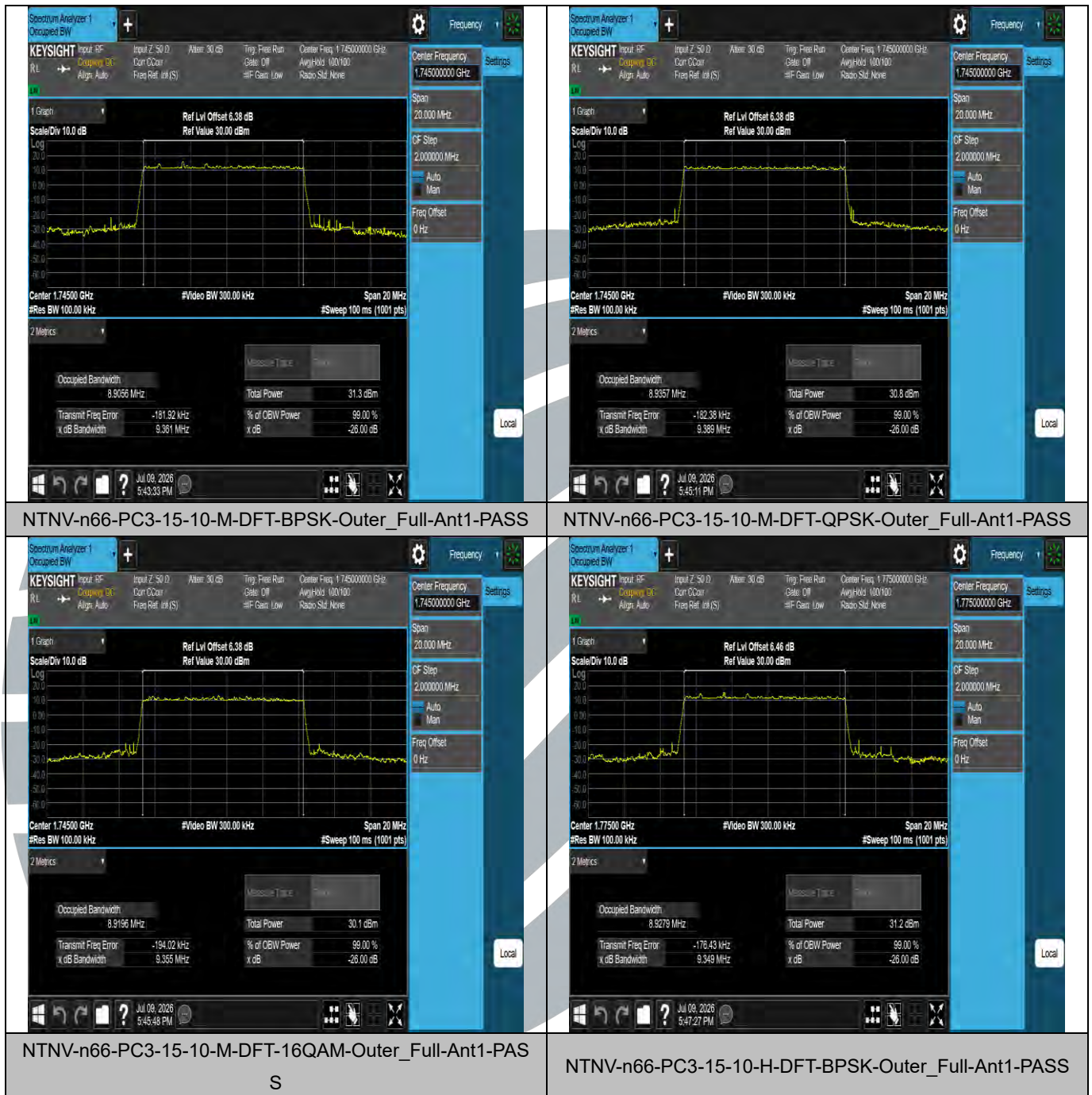
n66	15	25	DFT-QPSK	L	Outer_Full	22.899	24.07	PASS
n66	15	25	DFT-16QAM	L	Outer_Full	22.902	23.74	PASS
n66	15	25	DFT-BPSK	M	Outer_Full	22.818	23.71	PASS
n66	15	25	DFT-QPSK	M	Outer_Full	22.816	24.17	PASS
n66	15	25	DFT-16QAM	M	Outer_Full	22.821	23.75	PASS
n66	15	25	DFT-BPSK	H	Outer_Full	22.840	24.53	PASS
n66	15	25	DFT-QPSK	H	Outer_Full	22.829	24.23	PASS
n66	15	25	DFT-16QAM	H	Outer_Full	22.860	24.57	PASS
n66	15	30	DFT-BPSK	L	Outer_Full	28.631	29.89	PASS
n66	15	30	DFT-QPSK	L	Outer_Full	28.619	29.77	PASS
n66	15	30	DFT-16QAM	L	Outer_Full	28.606	30.24	PASS
n66	15	30	DFT-BPSK	M	Outer_Full	28.515	29.97	PASS
n66	15	30	DFT-QPSK	M	Outer_Full	28.434	29.73	PASS
n66	15	30	DFT-16QAM	M	Outer_Full	28.493	29.71	PASS
n66	15	30	DFT-BPSK	H	Outer_Full	28.582	29.98	PASS
n66	15	30	DFT-QPSK	H	Outer_Full	28.491	29.94	PASS
n66	15	30	DFT-16QAM	H	Outer_Full	28.542	29.99	PASS
n66	15	40	DFT-BPSK	L	Outer_Full	38.534	40.60	PASS
n66	15	40	DFT-QPSK	L	Outer_Full	38.558	40.14	PASS
n66	15	40	DFT-16QAM	L	Outer_Full	38.457	40.04	PASS
n66	15	40	DFT-BPSK	M	Outer_Full	38.438	40.60	PASS
n66	15	40	DFT-QPSK	M	Outer_Full	38.480	40.30	PASS
n66	15	40	DFT-16QAM	M	Outer_Full	38.375	40.04	PASS
n66	15	40	DFT-BPSK	H	Outer_Full	38.513	40.02	PASS
n66	15	40	DFT-QPSK	H	Outer_Full	38.535	40.64	PASS
n66	15	40	DFT-16QAM	H	Outer_Full	38.467	40.06	PASS

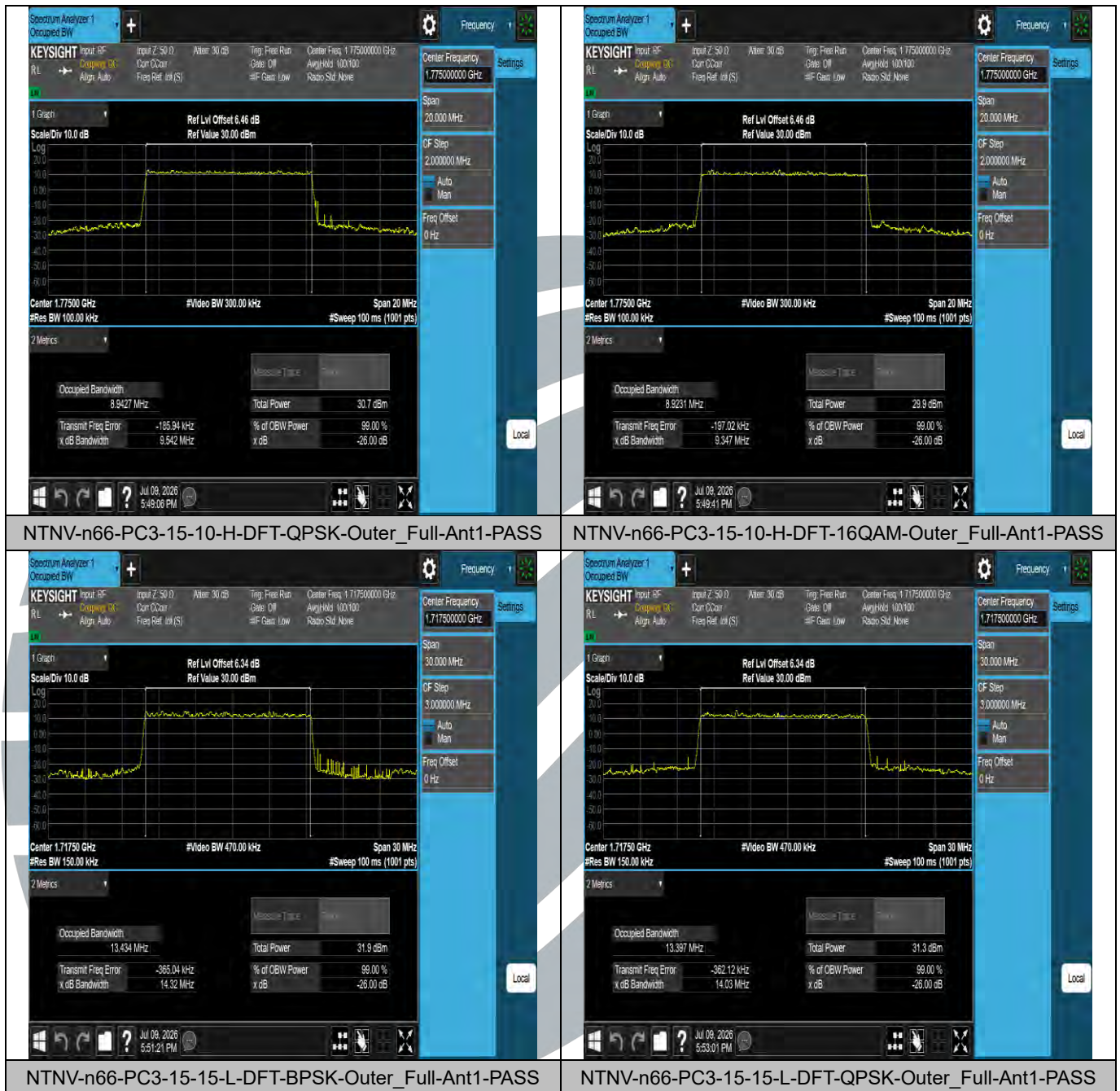
Test Graphs

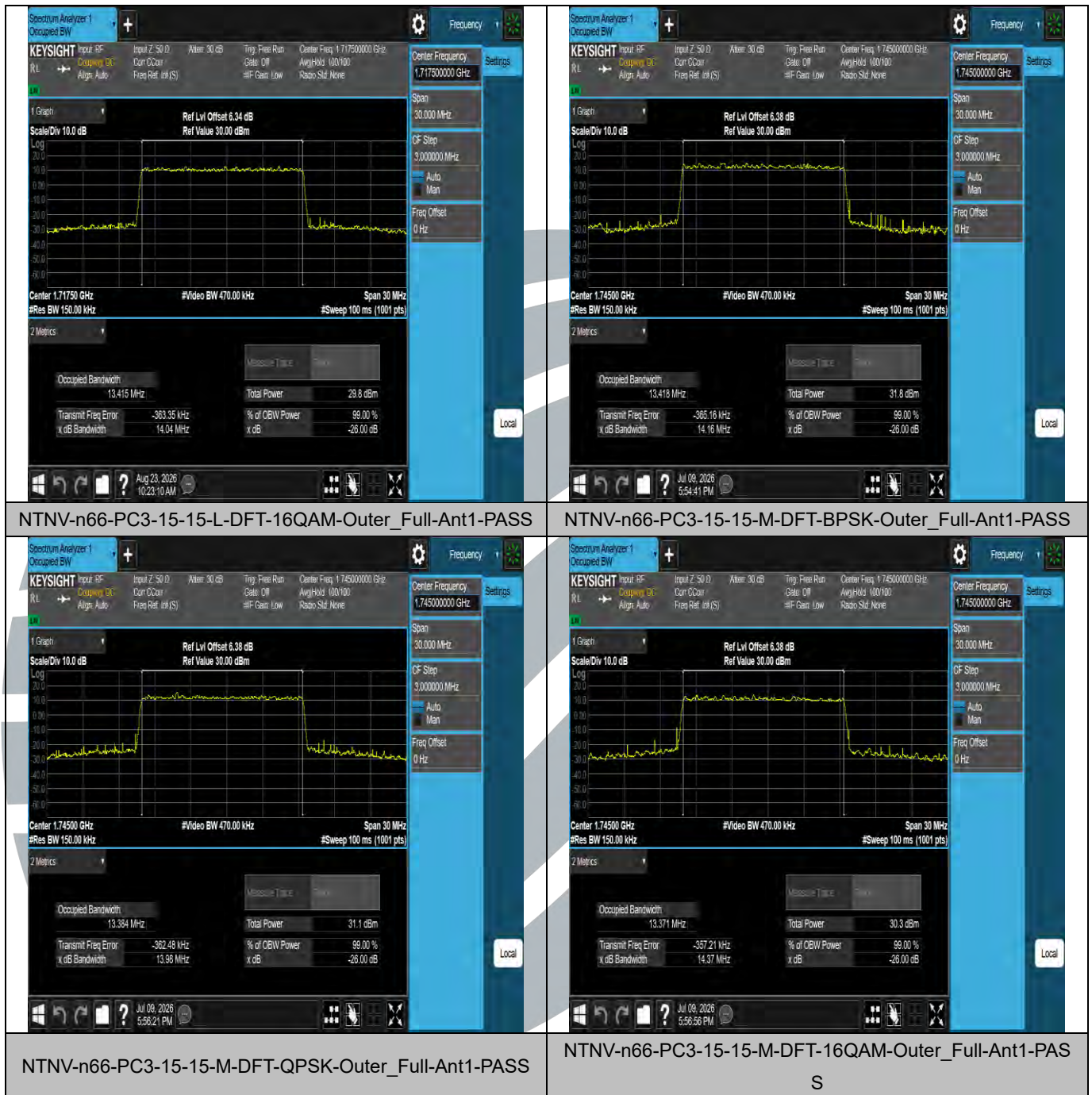




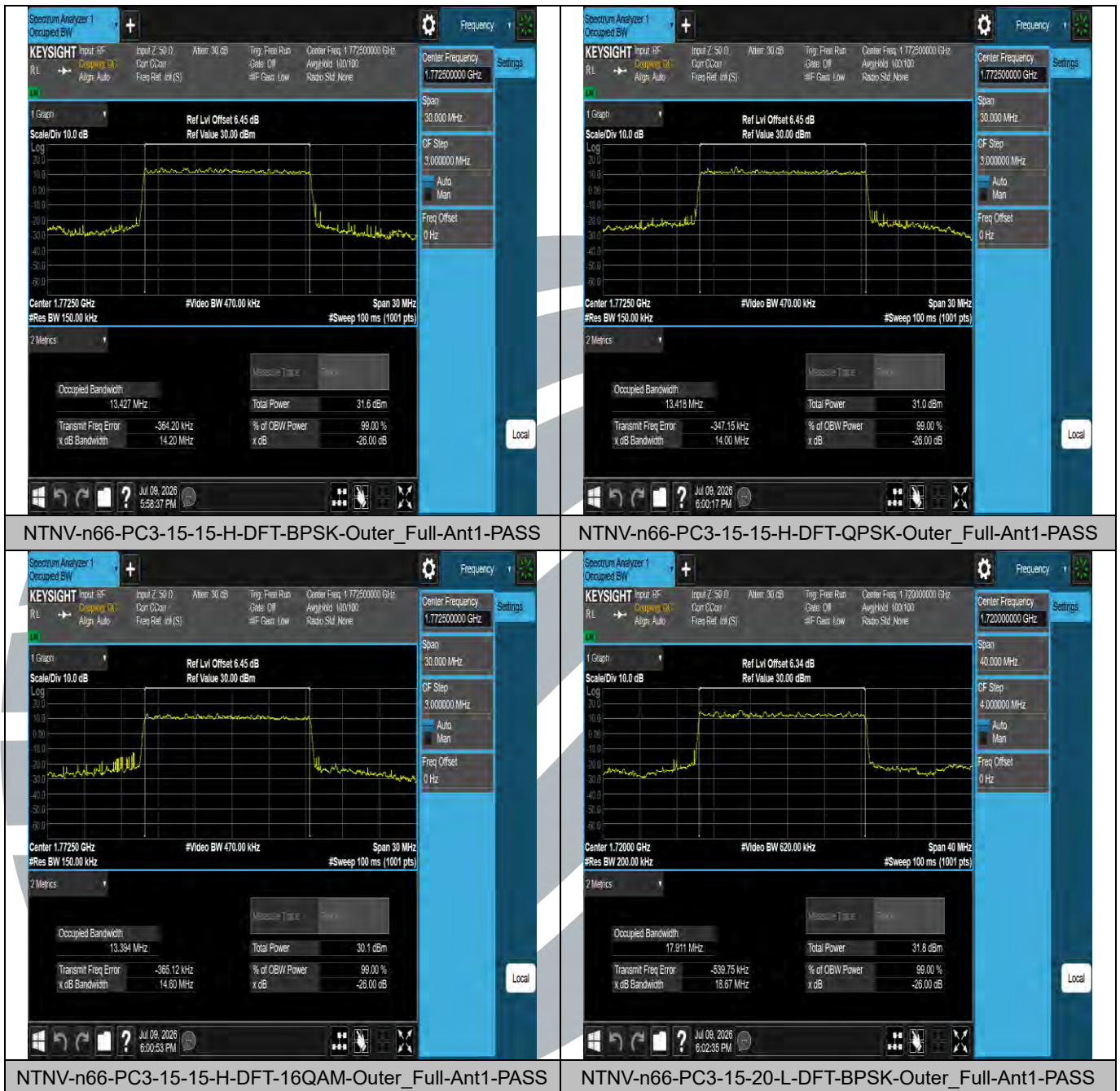


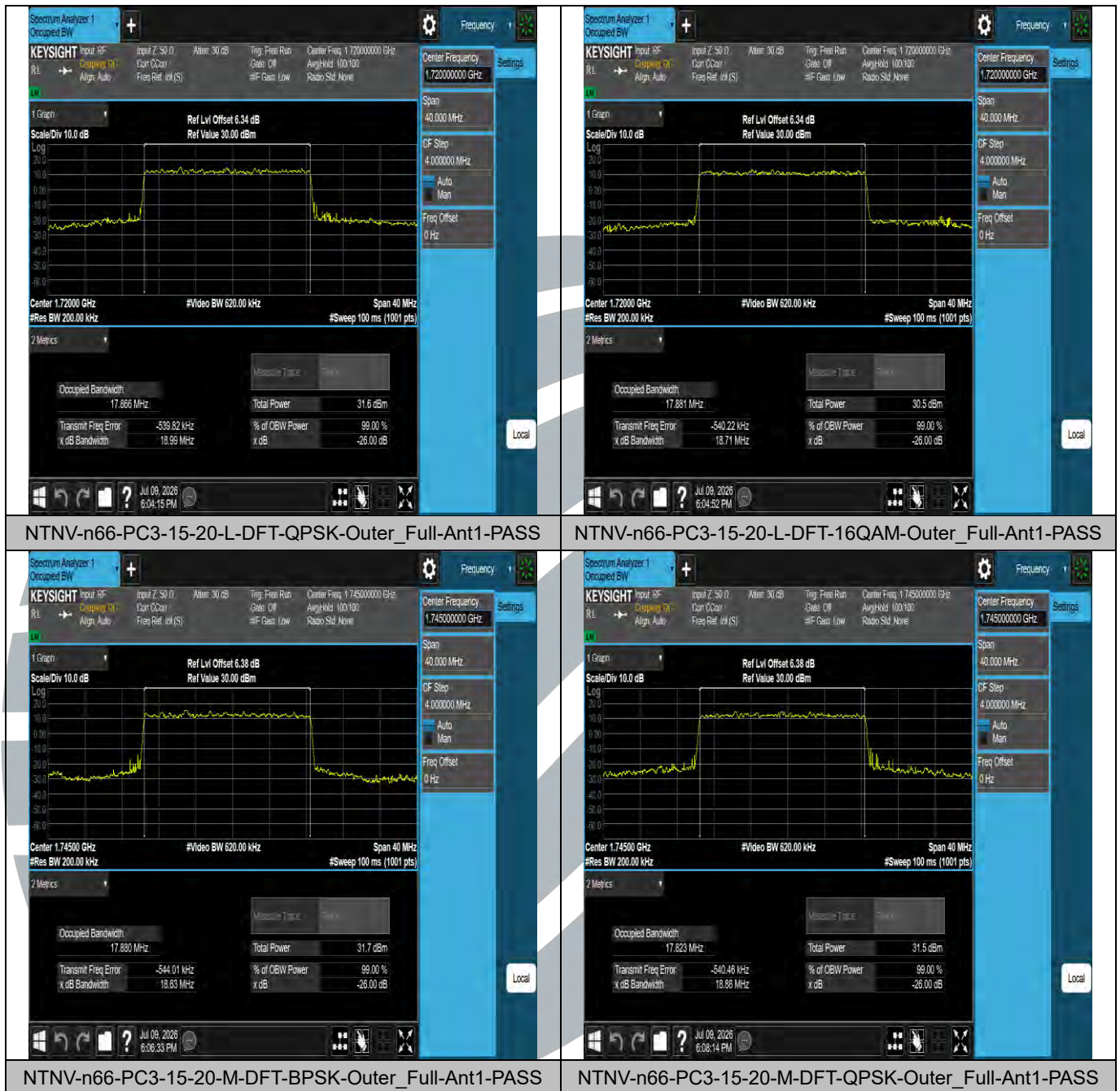






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NTNV-n66-PC3-15-20-M-DFT-16QAM-Outet_Full-Ant1-PAS
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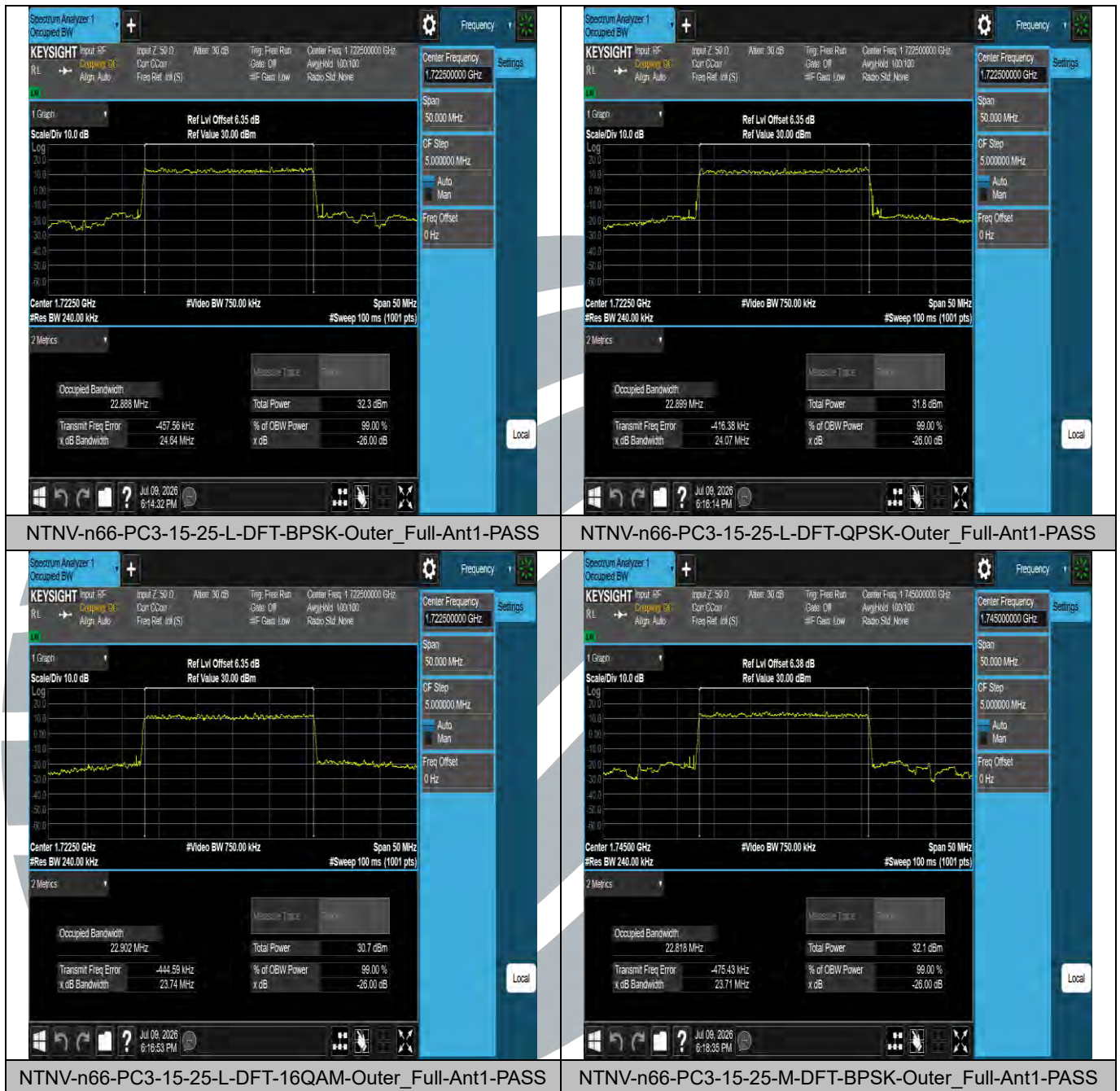
NTNV-n66-PC3-15-20-H-DFT-BPSK-Outet_Full-Ant1-PASS

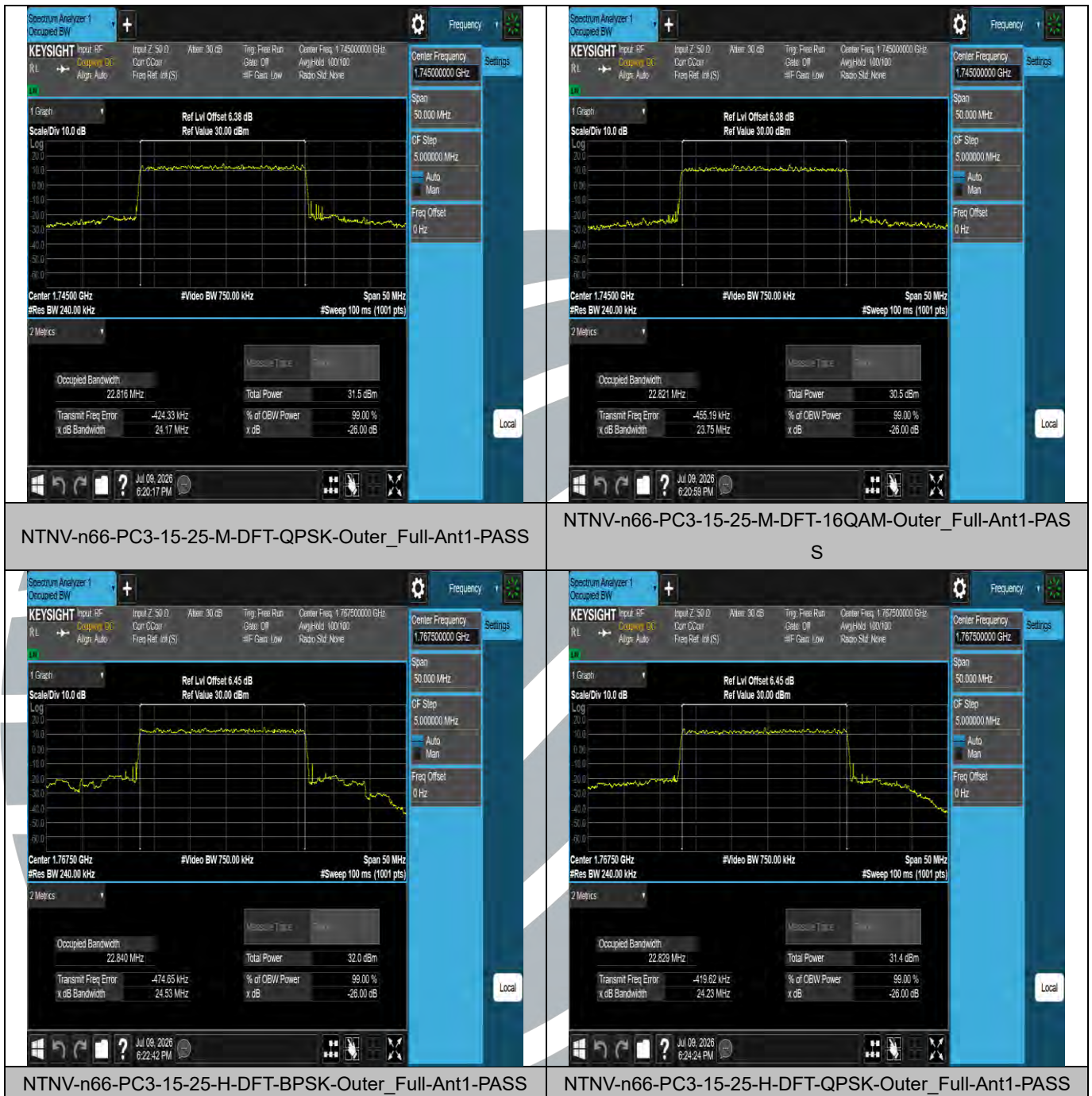


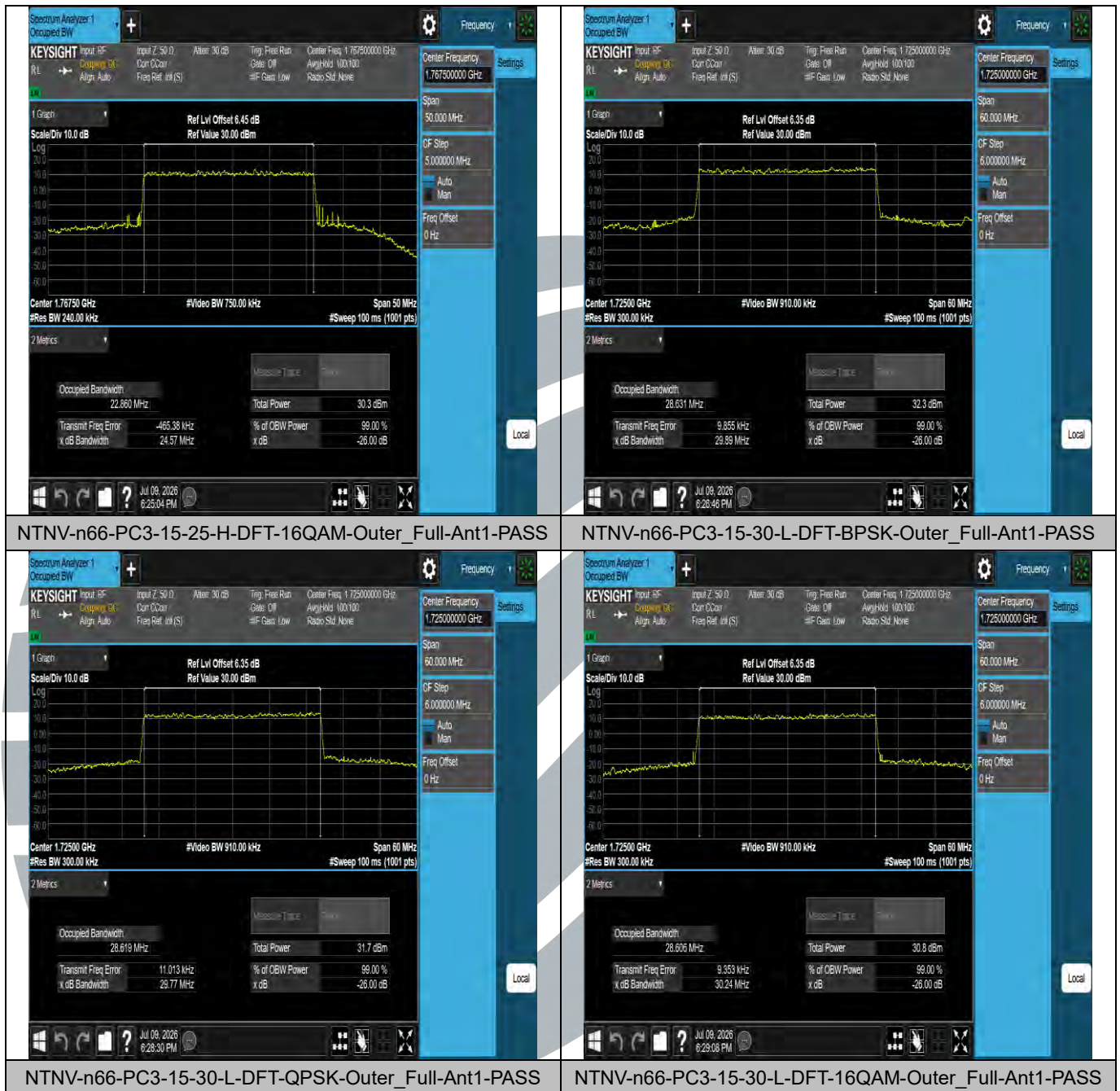
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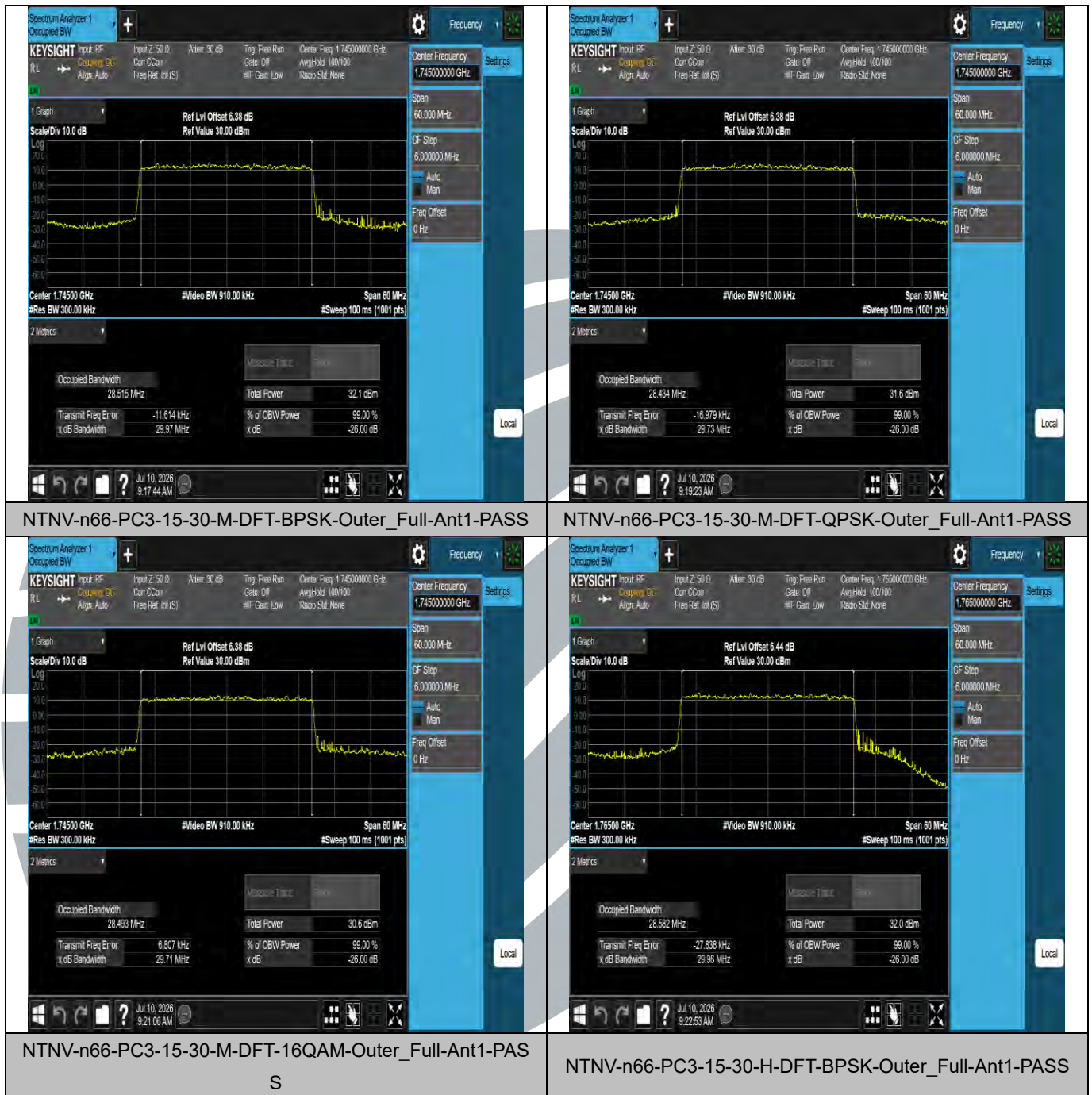


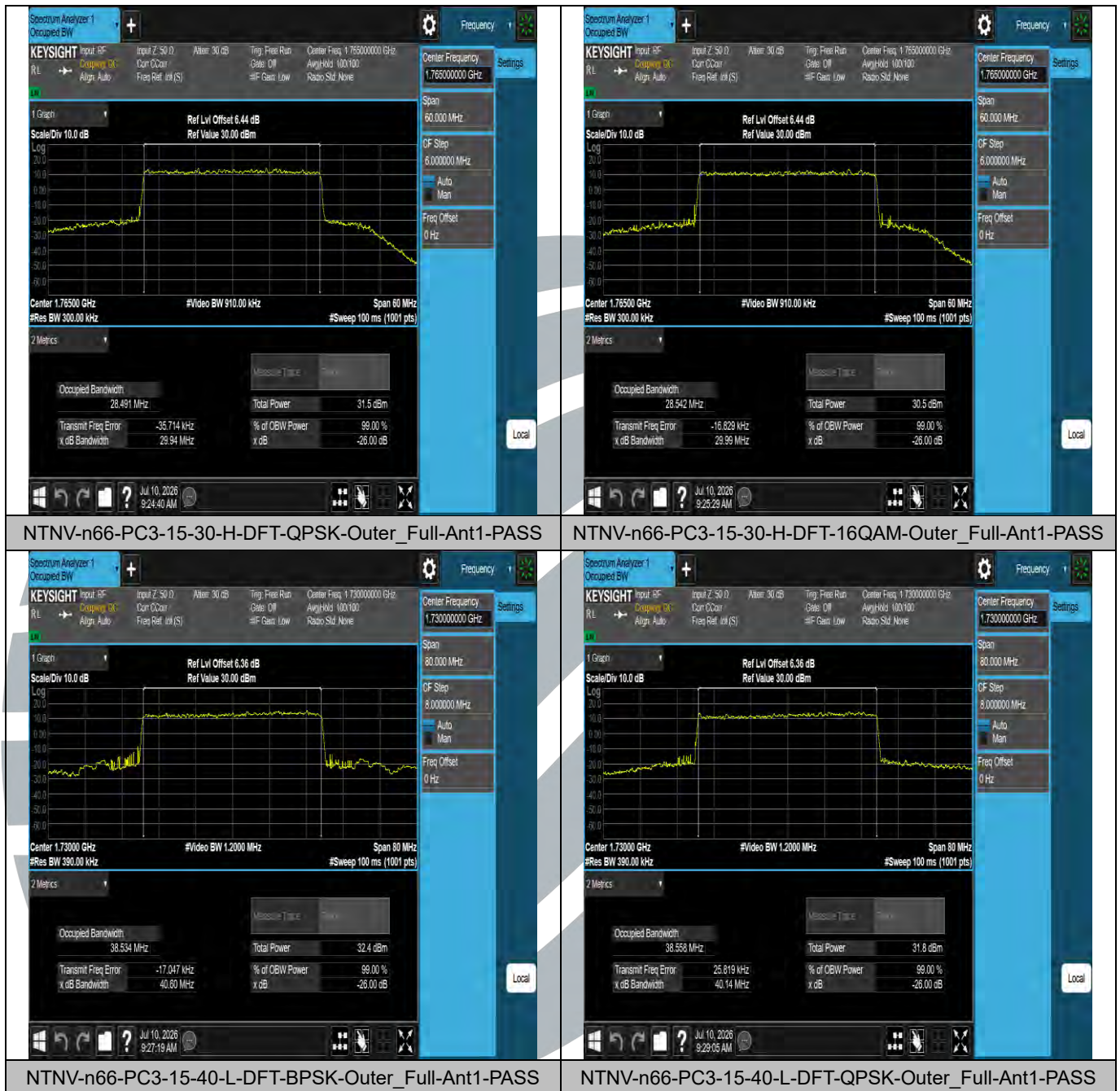
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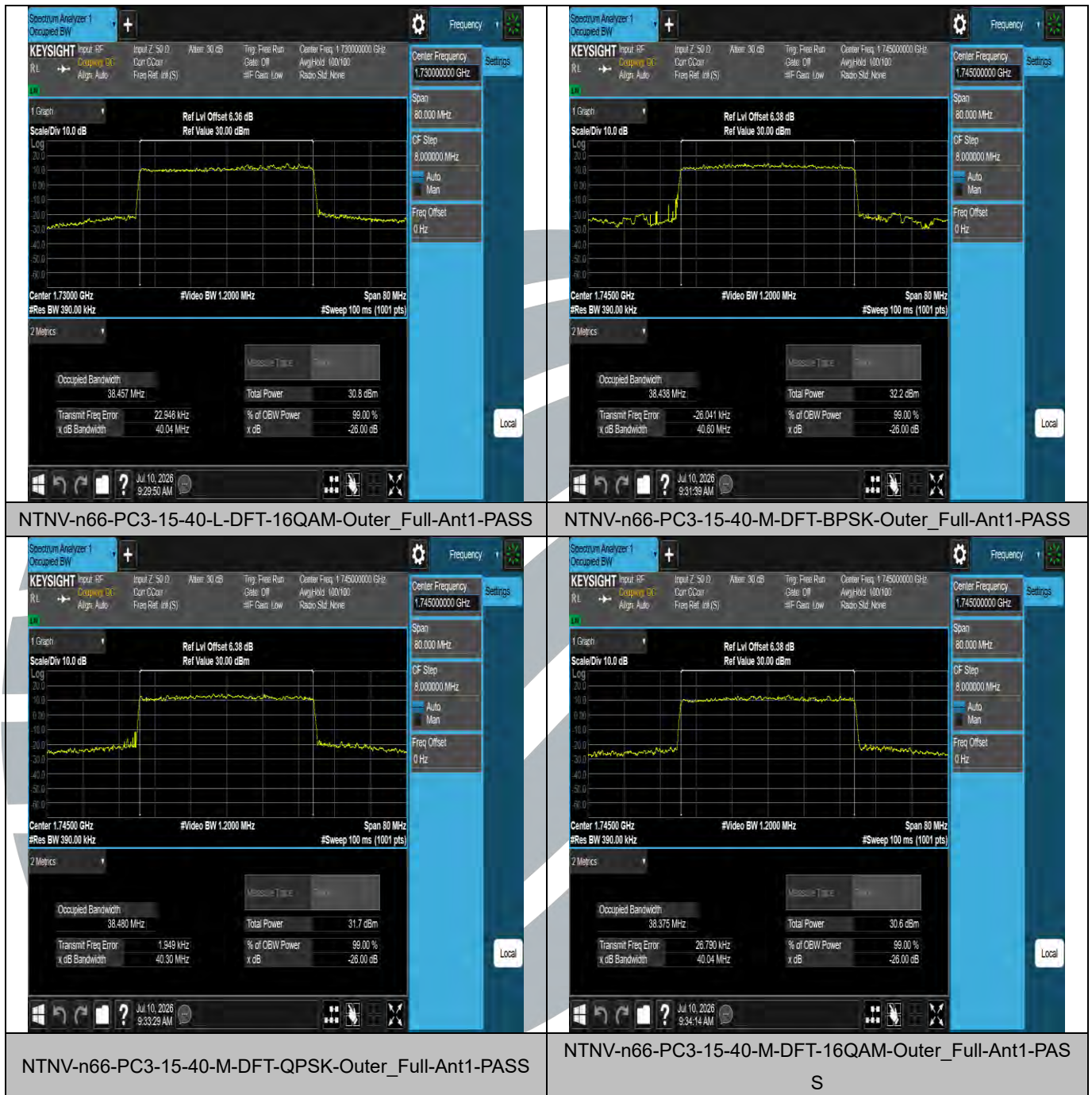




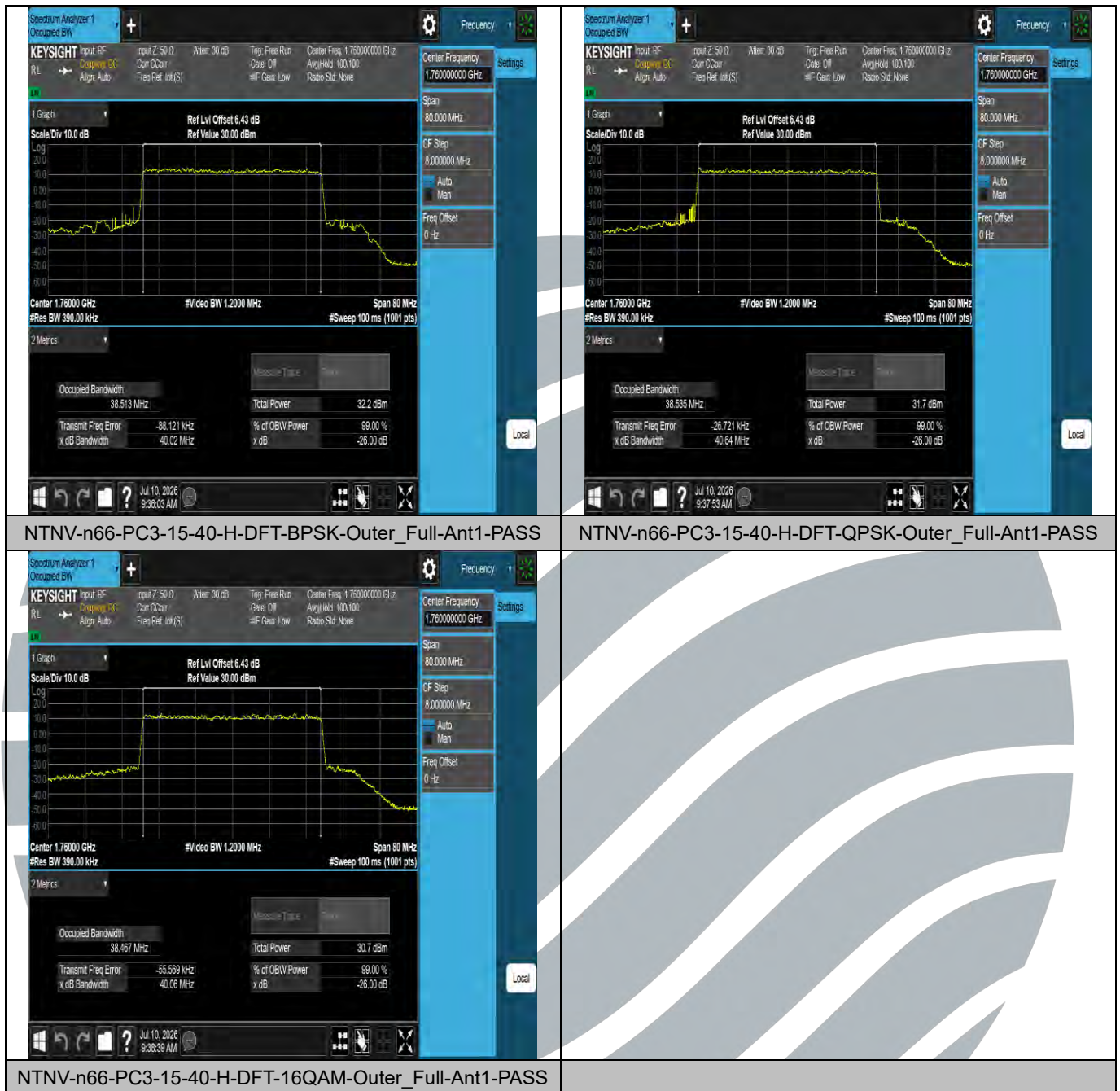








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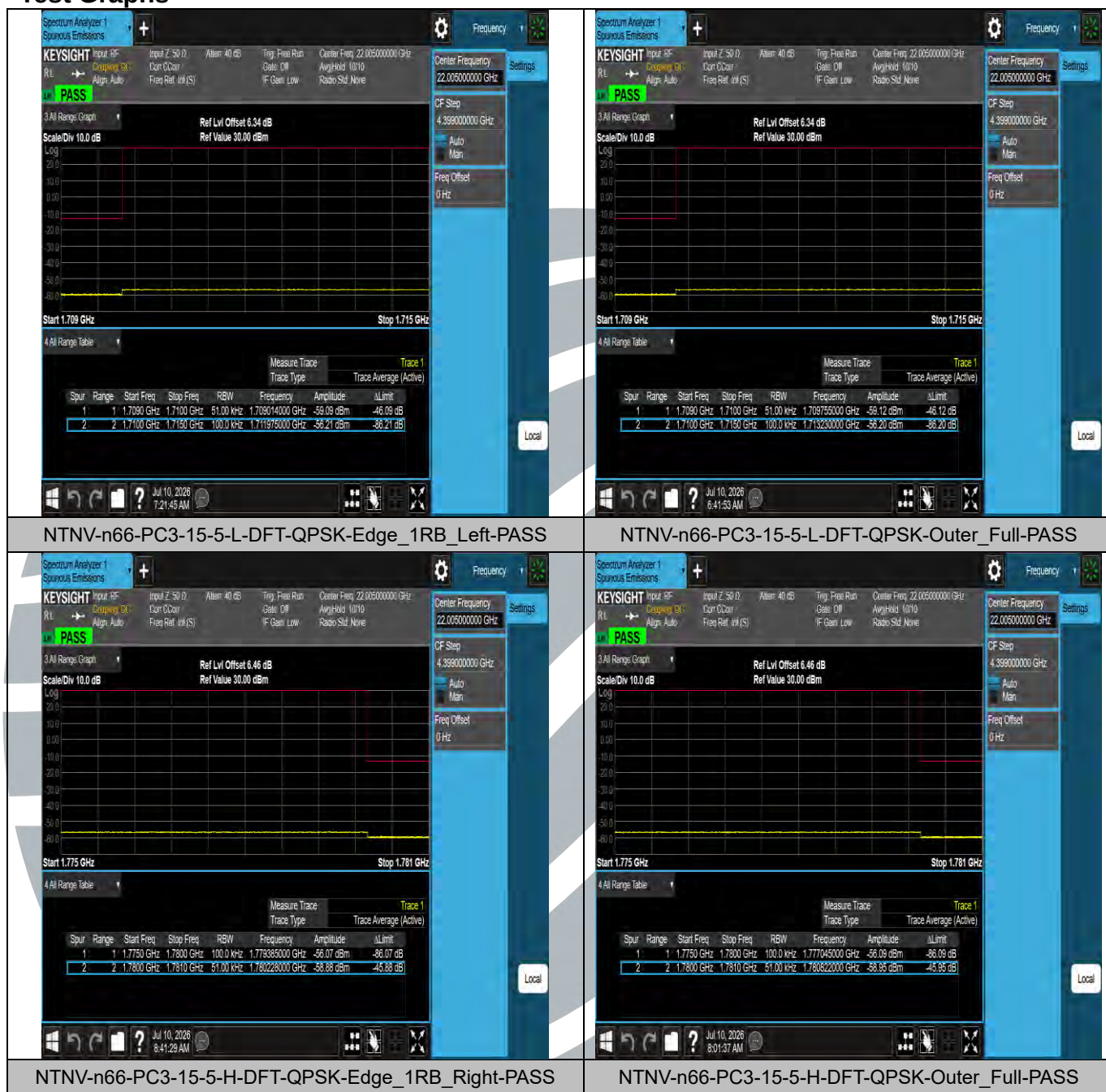


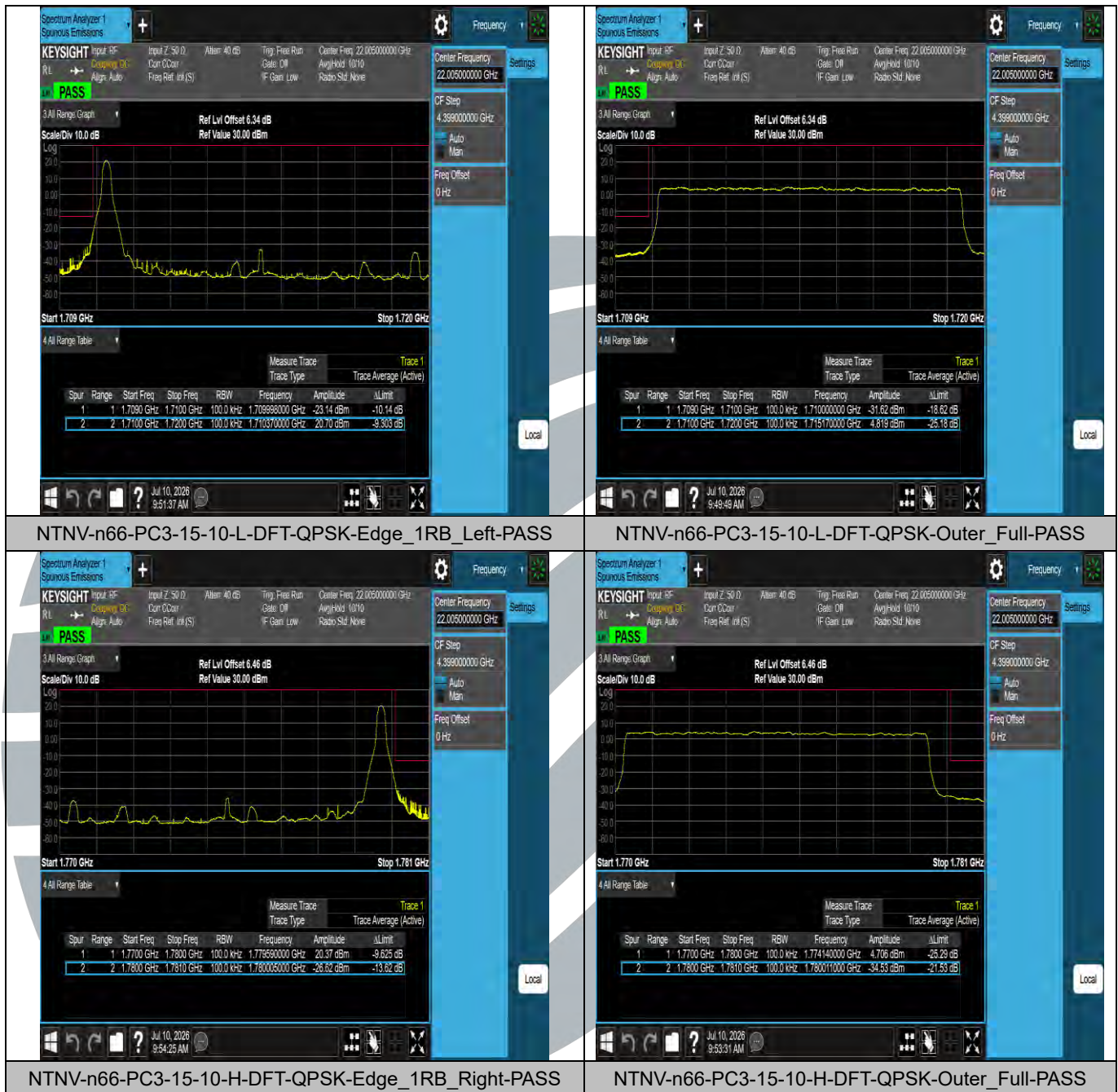
S.3 BAND EDGE FOR SA

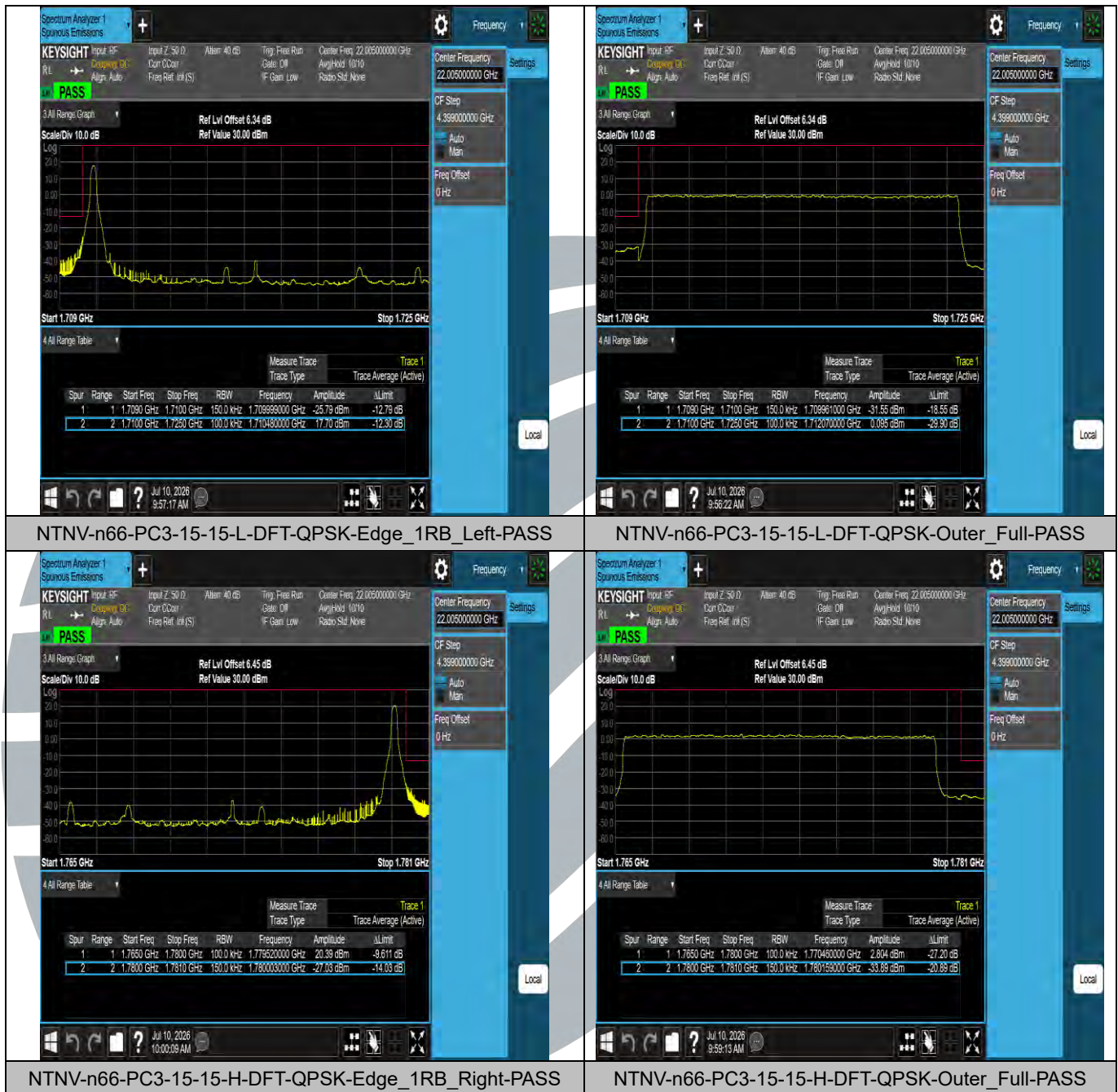
Test Result

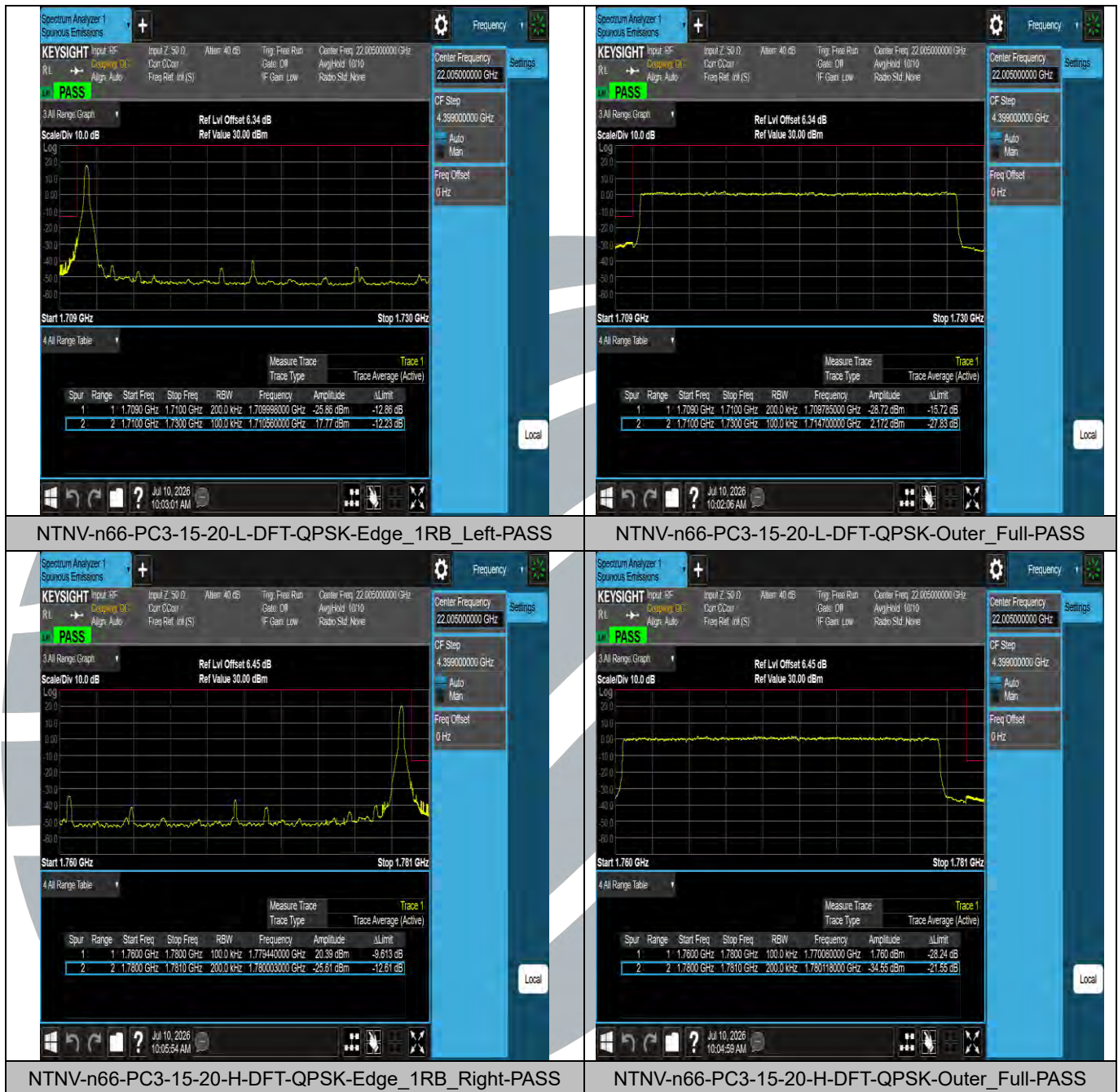
Band	SCS (kHz)	BW (MHz)	Modulation	Channel	RB Config	Result (dBm)	Verdict
n66	15	5	DFT-QPSK	L	Edge_1RB_Left	-59.09	PASS
n66	15	5	DFT-QPSK	L	Outer_Full	-59.12	PASS
n66	15	5	DFT-QPSK	H	Edge_1RB_Right	-58.88	PASS
n66	15	5	DFT-QPSK	H	Outer_Full	-58.95	PASS
n66	15	10	DFT-QPSK	L	Edge_1RB_Left	-23.14	PASS
n66	15	10	DFT-QPSK	L	Outer_Full	-31.62	PASS
n66	15	10	DFT-QPSK	H	Edge_1RB_Right	-26.62	PASS
n66	15	10	DFT-QPSK	H	Outer_Full	-34.53	PASS
n66	15	15	DFT-QPSK	L	Edge_1RB_Left	-25.79	PASS
n66	15	15	DFT-QPSK	L	Outer_Full	-31.55	PASS
n66	15	15	DFT-QPSK	H	Edge_1RB_Right	-27.03	PASS
n66	15	15	DFT-QPSK	H	Outer_Full	-33.89	PASS
n66	15	20	DFT-QPSK	L	Edge_1RB_Left	-25.86	PASS
n66	15	20	DFT-QPSK	L	Outer_Full	-28.72	PASS
n66	15	20	DFT-QPSK	H	Edge_1RB_Right	-25.61	PASS
n66	15	20	DFT-QPSK	H	Outer_Full	-34.55	PASS
n66	15	25	DFT-QPSK	L	Edge_1RB_Left	-24.88	PASS
n66	15	25	DFT-QPSK	L	Outer_Full	-27.17	PASS
n66	15	25	DFT-QPSK	H	Edge_1RB_Right	-28.17	PASS
n66	15	25	DFT-QPSK	H	Outer_Full	-31.71	PASS
n66	15	30	DFT-QPSK	L	Edge_1RB_Left	-21.58	PASS
n66	15	30	DFT-QPSK	L	Outer_Full	-26.67	PASS
n66	15	30	DFT-QPSK	H	Edge_1RB_Right	-21.06	PASS
n66	15	30	DFT-QPSK	H	Outer_Full	-32.33	PASS
n66	15	40	DFT-QPSK	L	Edge_1RB_Left	-15.32	PASS
n66	15	40	DFT-QPSK	L	Outer_Full	-28.03	PASS
n66	15	40	DFT-QPSK	H	Edge_1RB_Right	-16.00	PASS
n66	15	40	DFT-QPSK	H	Outer_Full	-28.81	PASS

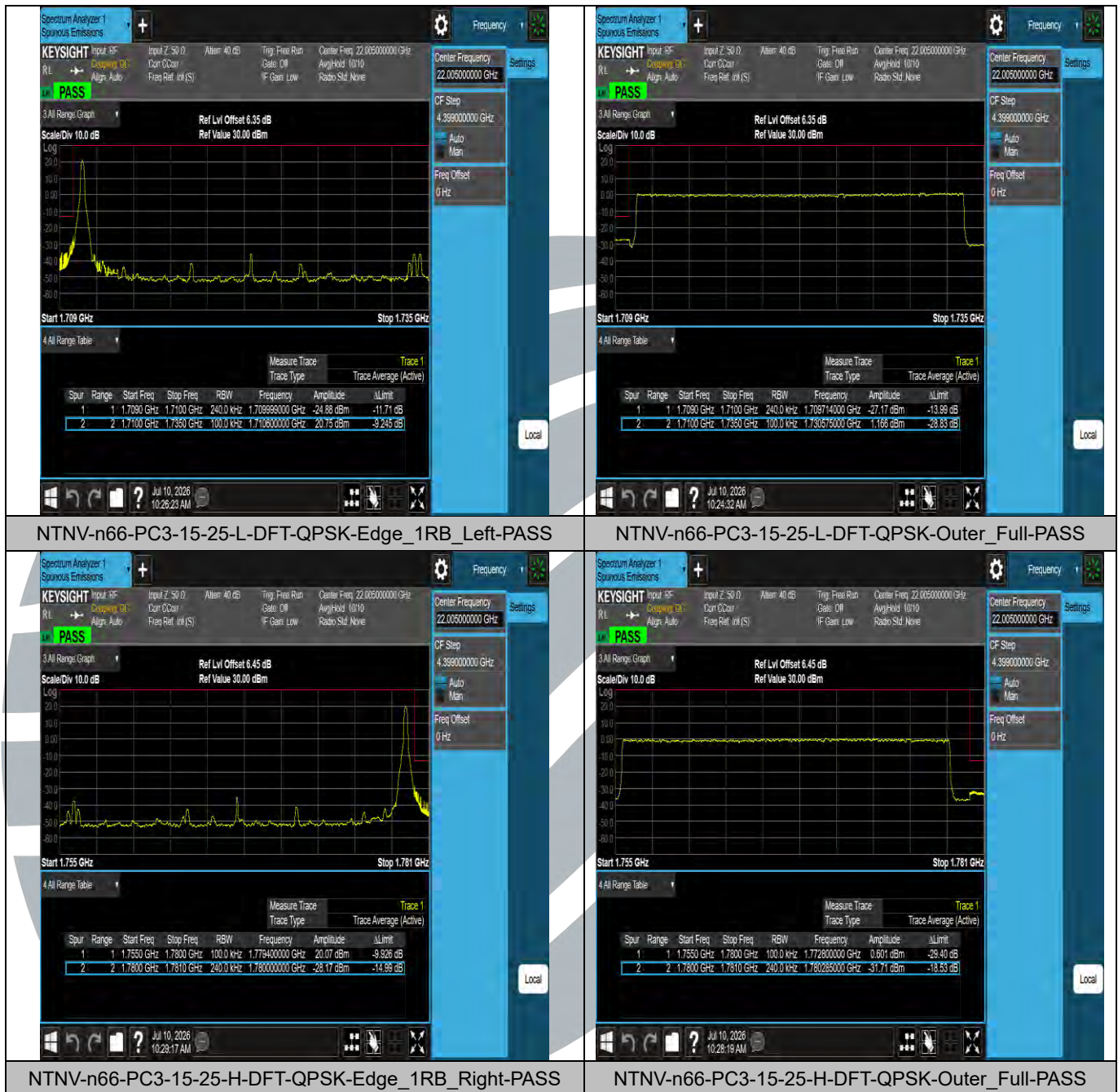
Test Graphs

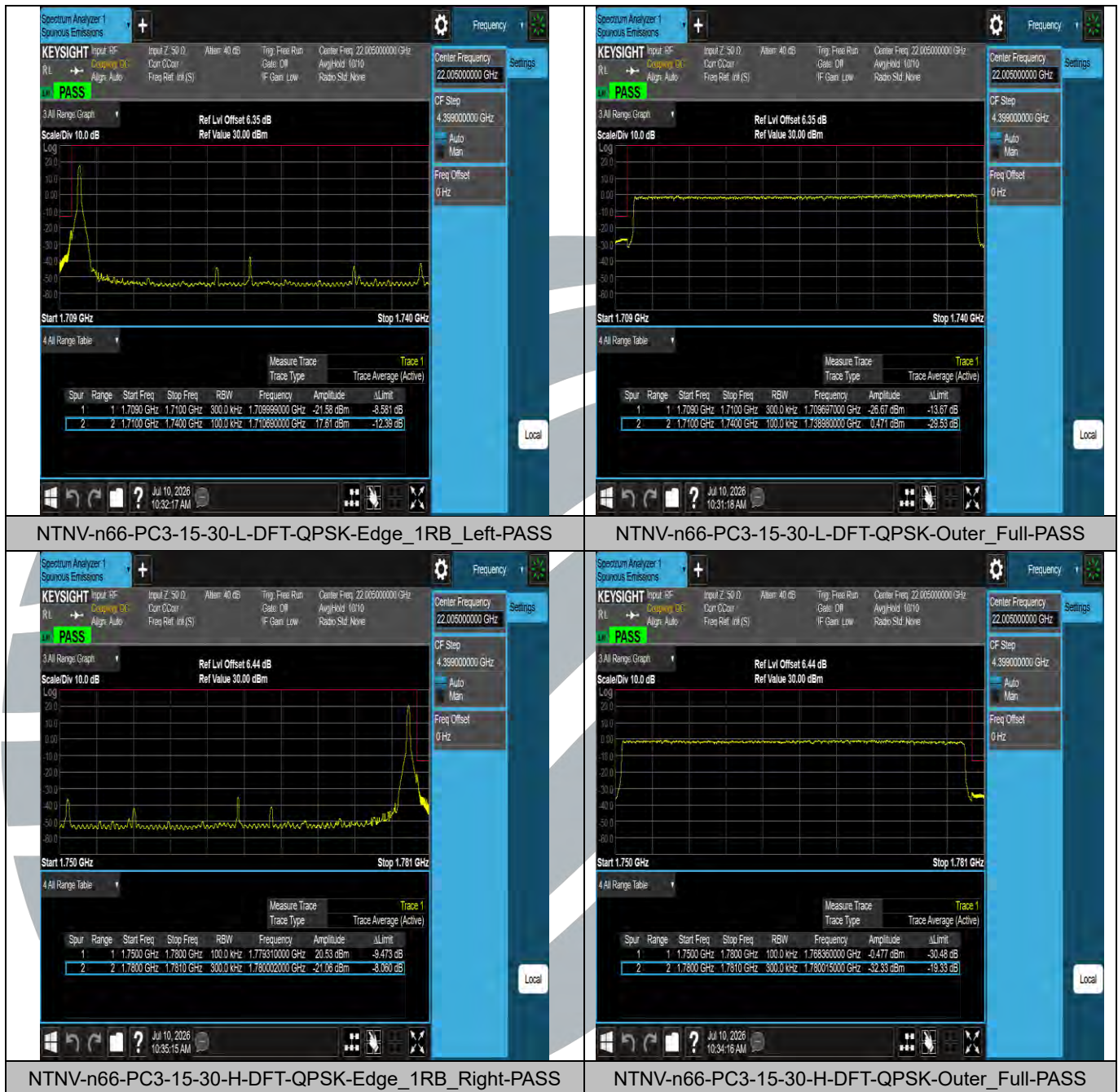


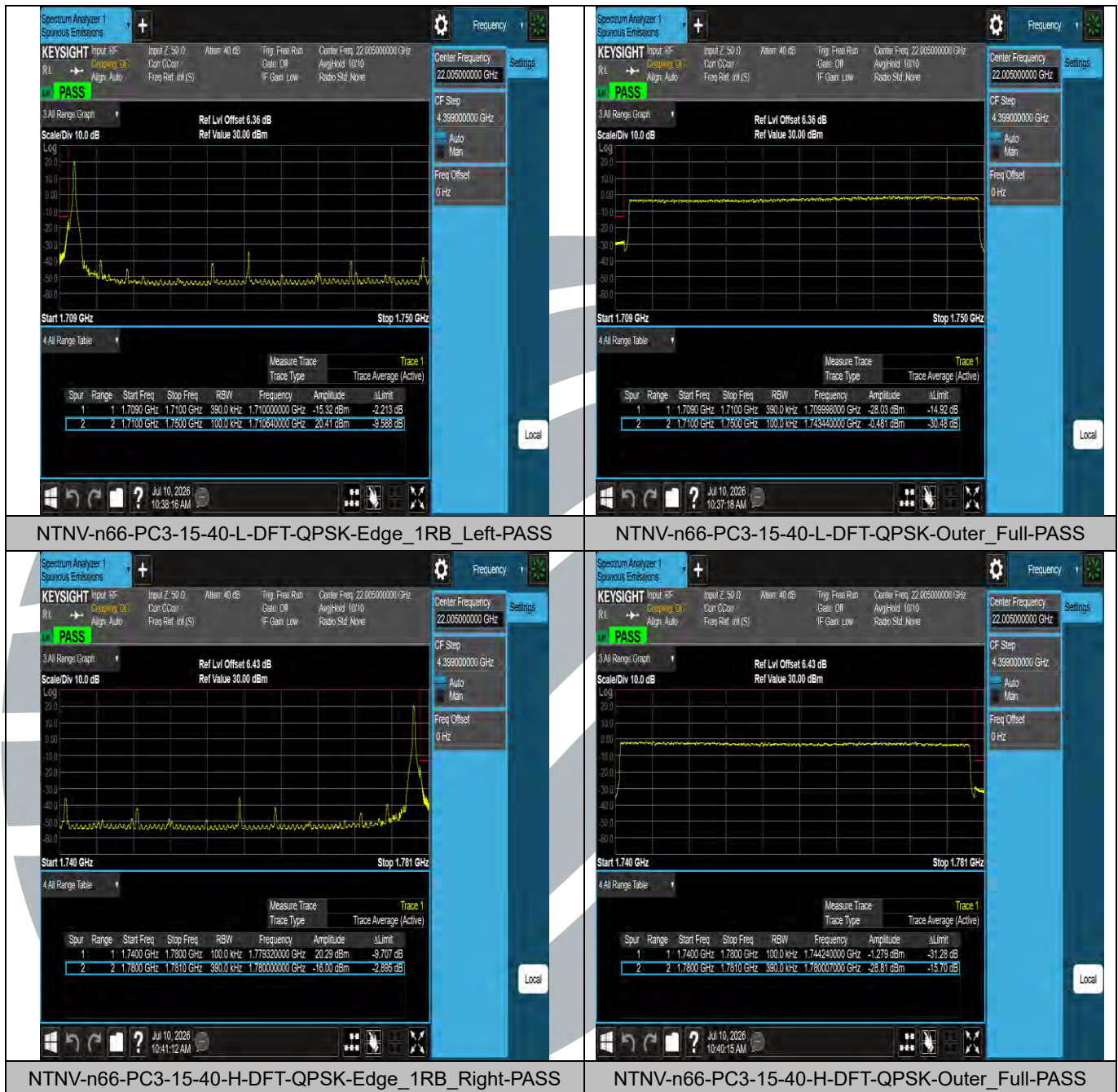










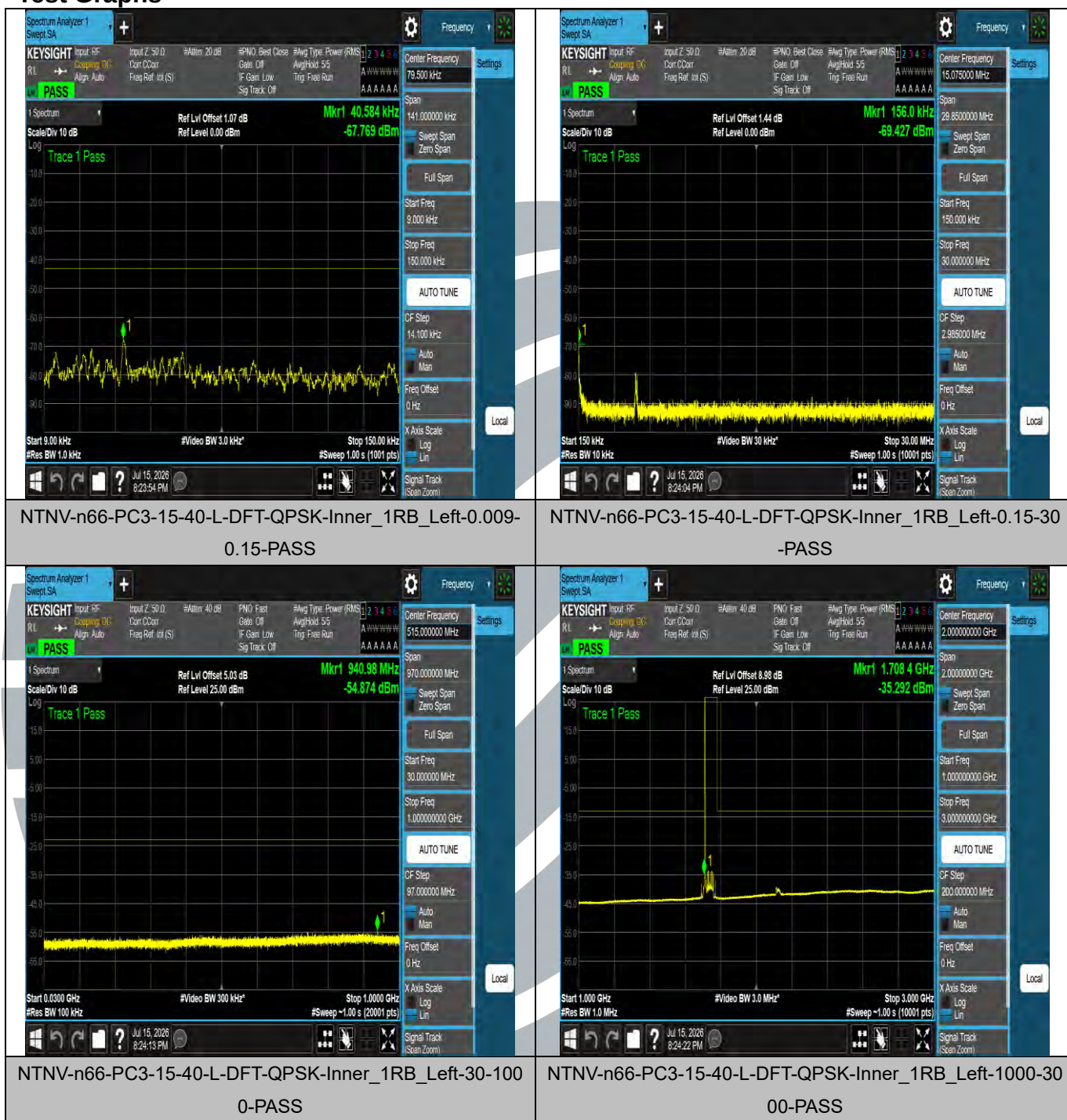


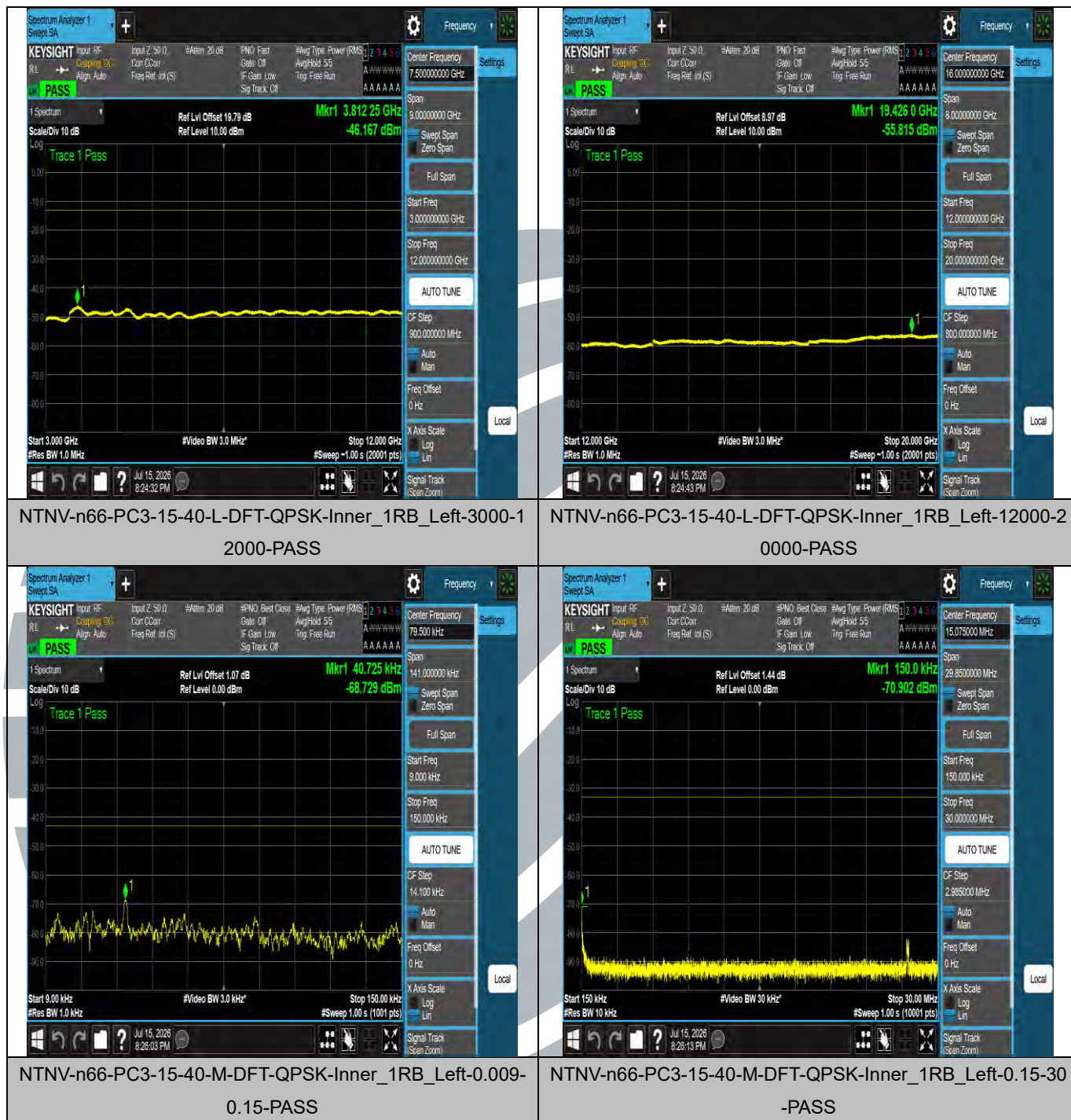
S.4 CONDUCTED SPURIOUS EMISSION FOR SA

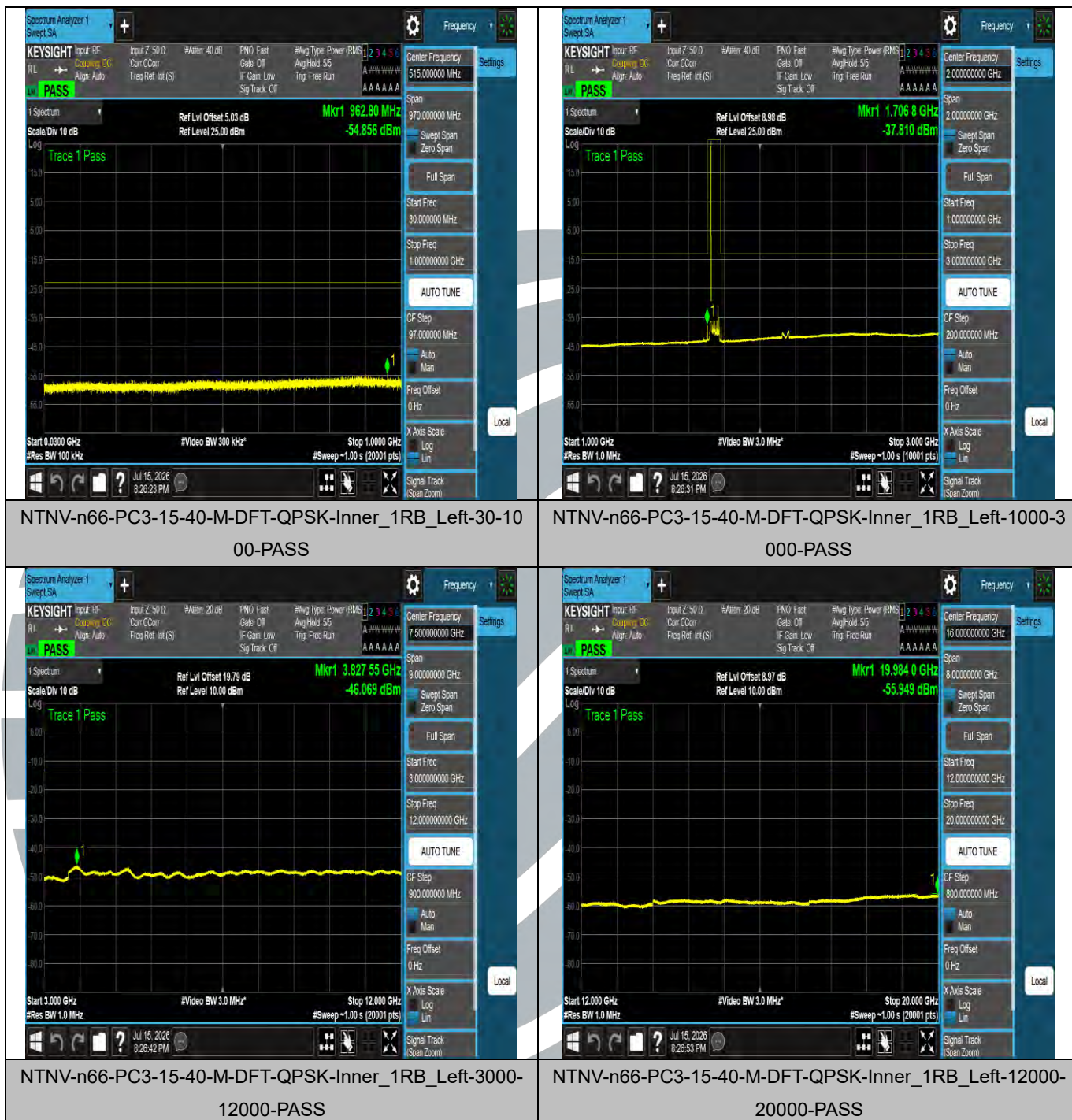
Test Result

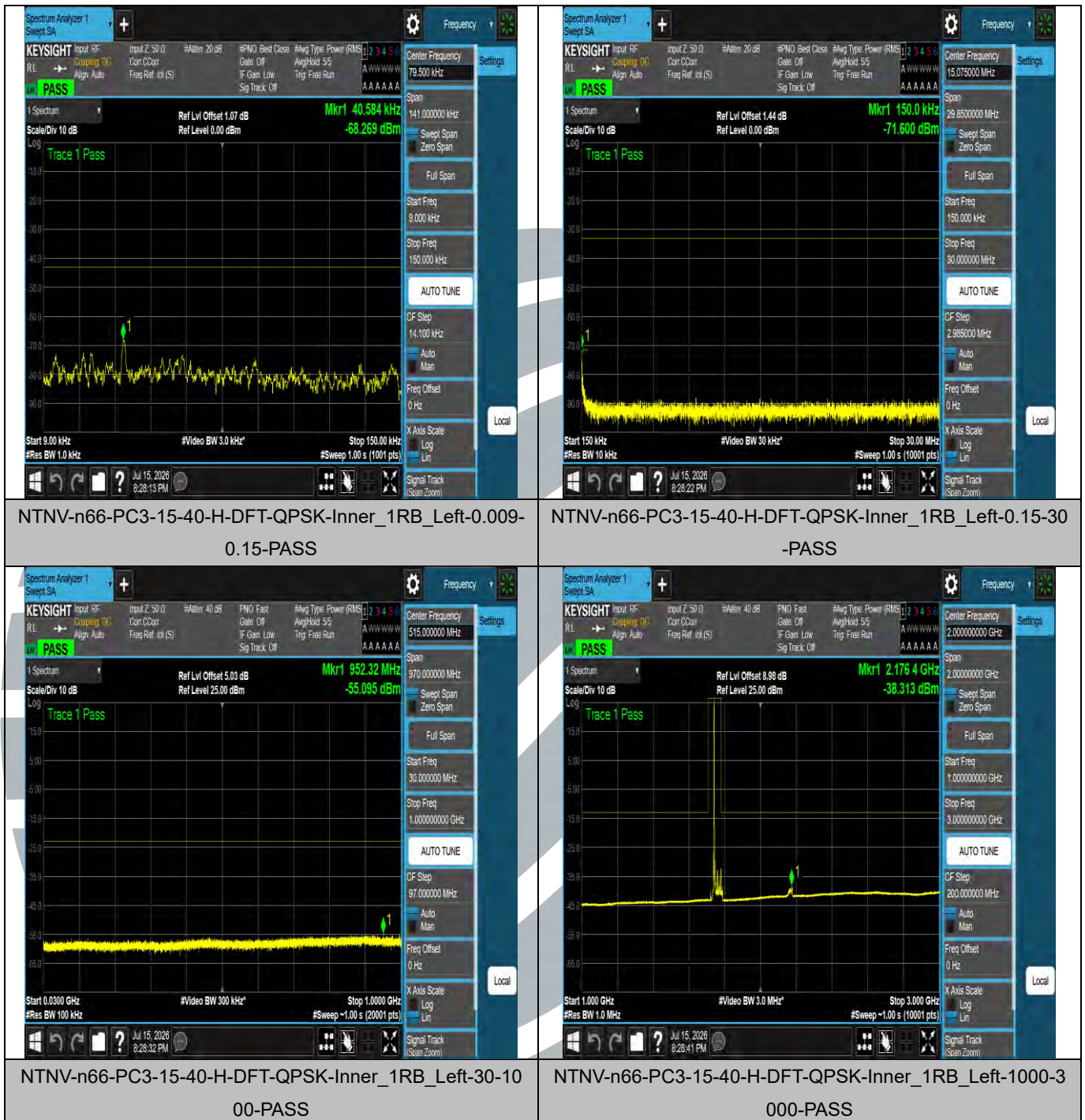
Band	SCS (kHz)	BW (MHz)	Modulation	Ch.	RB Config	Start Freq (MHz)	Stop Freq (MHz)	Result (dBm)	Limit (dBm)	Verdict
n66	15	40	DFT-QPSK	L	Inner_1RB_Left	0.009	0.15	-67.77	≤-43dBm	PASS
n66	15	40	DFT-QPSK	L	Inner_1RB_Left	0.15	30	-69.43	≤-33dBm	PASS
n66	15	40	DFT-QPSK	L	Inner_1RB_Left	30	1000	-54.87	≤-23dBm	PASS
n66	15	40	DFT-QPSK	L	Inner_1RB_Left	1000	3000	-35.29	≤-13dBm	PASS
n66	15	40	DFT-QPSK	L	Inner_1RB_Left	3000	12000	-46.17	≤-13dBm	PASS
n66	15	40	DFT-QPSK	L	Inner_1RB_Left	12000	20000	-55.82	≤-13dBm	PASS
n66	15	40	DFT-QPSK	M	Inner_1RB_Left	0.009	0.15	-68.73	≤-43dBm	PASS
n66	15	40	DFT-QPSK	M	Inner_1RB_Left	0.15	30	-70.90	≤-33dBm	PASS
n66	15	40	DFT-QPSK	M	Inner_1RB_Left	30	1000	-54.86	≤-23dBm	PASS
n66	15	40	DFT-QPSK	M	Inner_1RB_Left	1000	3000	-37.81	≤-13dBm	PASS
n66	15	40	DFT-QPSK	M	Inner_1RB_Left	3000	12000	-46.07	≤-13dBm	PASS
n66	15	40	DFT-QPSK	M	Inner_1RB_Left	12000	20000	-55.95	≤-13dBm	PASS
n66	15	40	DFT-QPSK	H	Inner_1RB_Left	0.009	0.15	-68.27	≤-43dBm	PASS
n66	15	40	DFT-QPSK	H	Inner_1RB_Left	0.15	30	-71.60	≤-33dBm	PASS
n66	15	40	DFT-QPSK	H	Inner_1RB_Left	30	1000	-55.09	≤-23dBm	PASS
n66	15	40	DFT-QPSK	H	Inner_1RB_Left	1000	3000	-38.31	≤-13dBm	PASS
n66	15	40	DFT-QPSK	H	Inner_1RB_Left	3000	12000	-46.11	≤-13dBm	PASS
n66	15	40	DFT-QPSK	H	Inner_1RB_Left	12000	20000	-55.92	≤-13dBm	PASS

Test Graphs











S.5 FREQUENCY STABILITY FOR SA

Test Result

Frequency Error VS. Voltage

Voltage													
Band	SCS	BW (MHz)	Modulation	Ch.	RB Config	Voltage	Temp.	Result (ppm)	Limit (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
n66	15	40	DFT-QPSK	M	Outer_Full	VL	NT	0.000365	-2.5~2.5	1710	1780	---	PASS
n66	15	40	DFT-QPSK	M	Outer_Full	VN	NT	-0.002309	-2.5~2.5	1710	1780	---	PASS
n66	15	40	DFT-QPSK	M	Outer_Full	VH	NT	-0.002452	-2.5~2.5	1710	1780	---	PASS

Frequency Error VS. Temperature

Temperature													
Band	SCS	BW (MHz)	Modulation	Ch.	RB Config	Voltage	Temp.	Result (ppm)	Limit (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
n66	15	40	DFT-QPSK	M	Outer_Full	NV	-30	-0.001848	-2.5~2.5	1710	1780	---	PASS
n66	15	40	DFT-QPSK	M	Outer_Full	NV	-20	-0.001949	-2.5~2.5	1710	1780	---	PASS
n66	15	40	DFT-QPSK	M	Outer_Full	NV	-10	-0.002487	-2.5~2.5	1710	1780	---	PASS
n66	15	40	DFT-QPSK	M	Outer_Full	NV	0	-0.002489	-2.5~2.5	1710	1780	---	PASS
n66	15	40	DFT-QPSK	M	Outer_Full	NV	10	-0.002094	-2.5~2.5	1710	1780	---	PASS
n66	15	40	DFT-QPSK	M	Outer_Full	NV	20	-0.001784	-2.5~2.5	1710	1780	---	PASS
n66	15	40	DFT-QPSK	M	Outer_Full	NV	30	-0.002042	-2.5~2.5	1710	1780	---	PASS
n66	15	40	DFT-QPSK	M	Outer_Full	NV	40	-0.001778	-2.5~2.5	1710	1780	---	PASS
n66	15	40	DFT-QPSK	M	Outer_Full	NV	50	-0.002315	-2.5~2.5	1710	1780	---	PASS