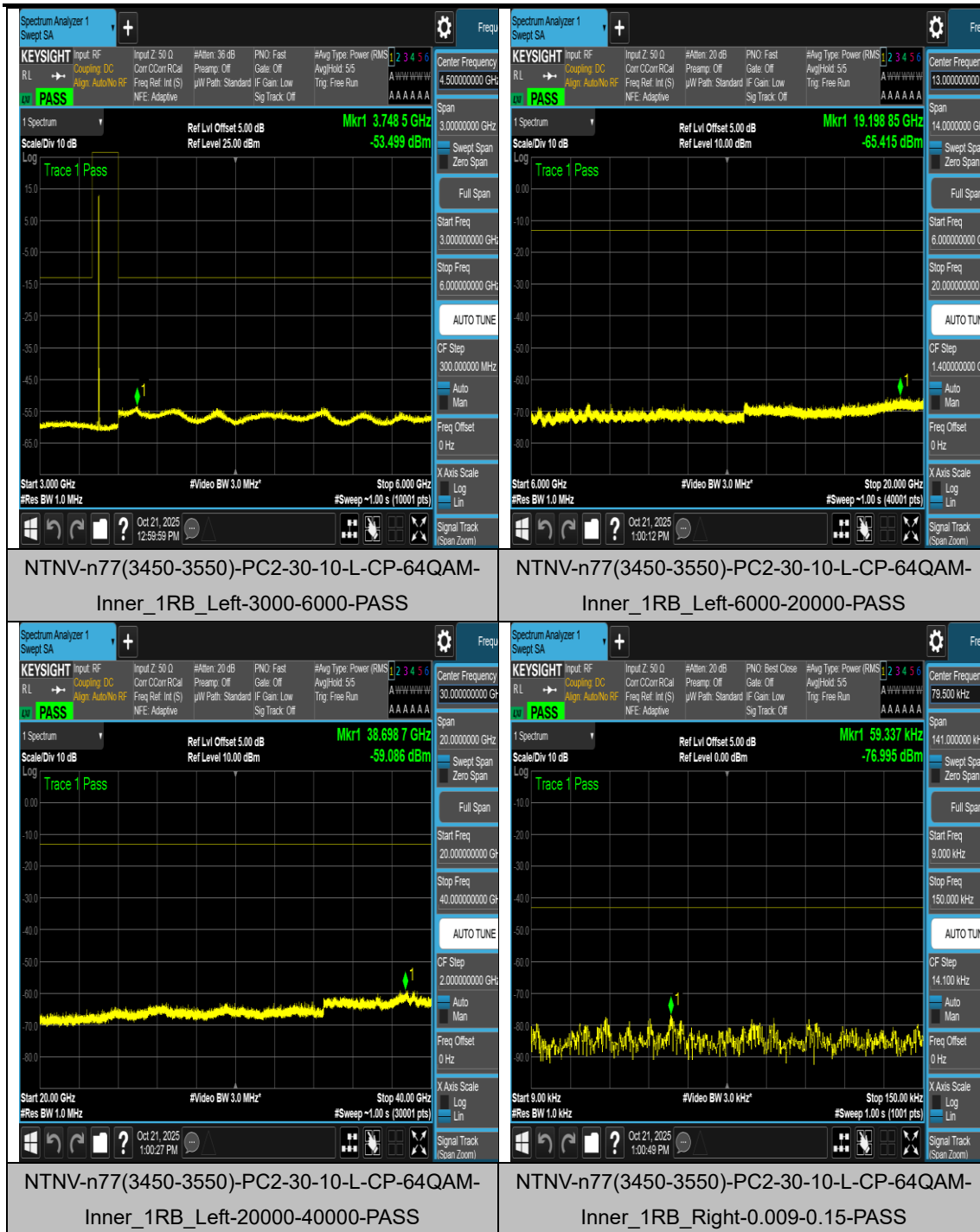
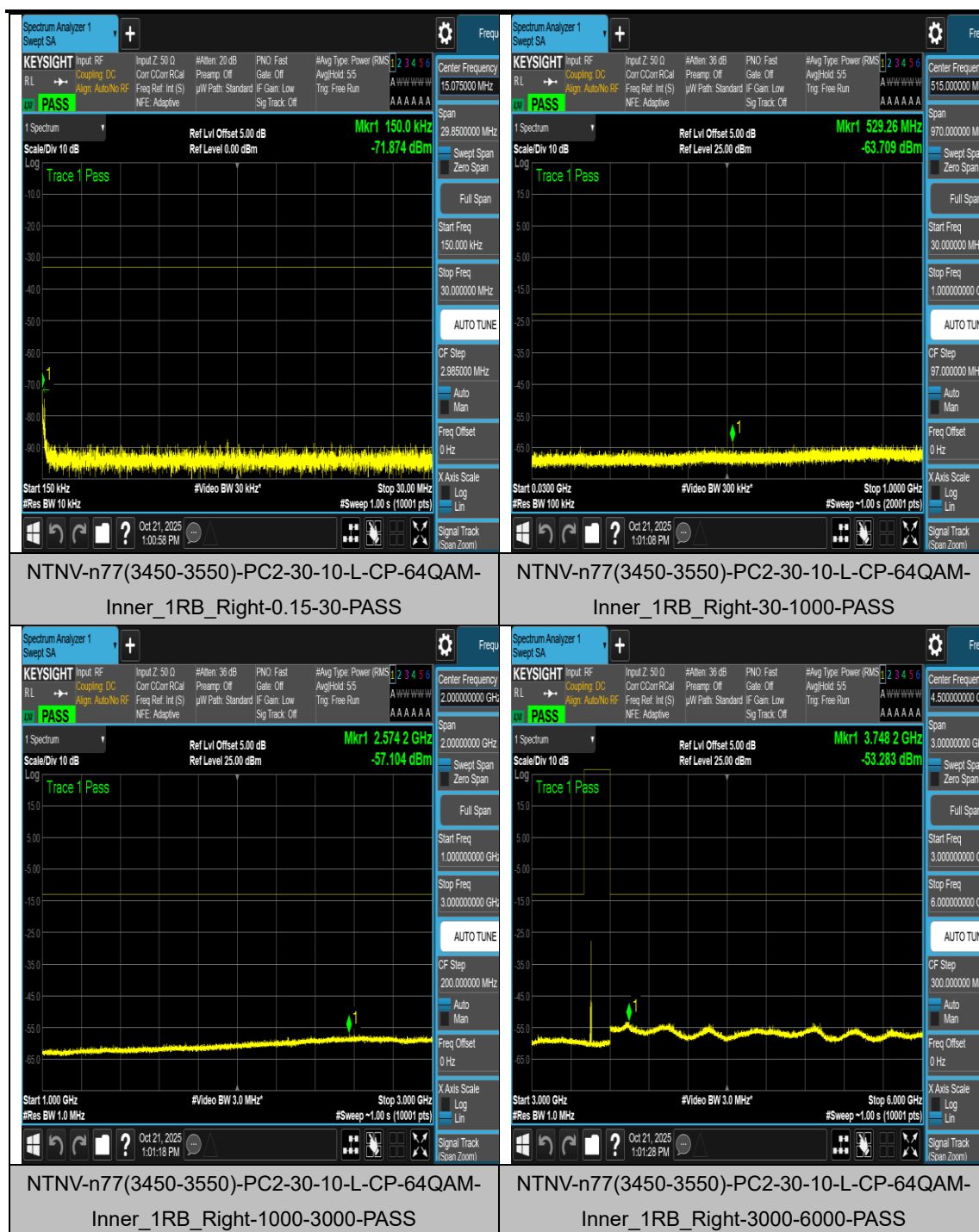
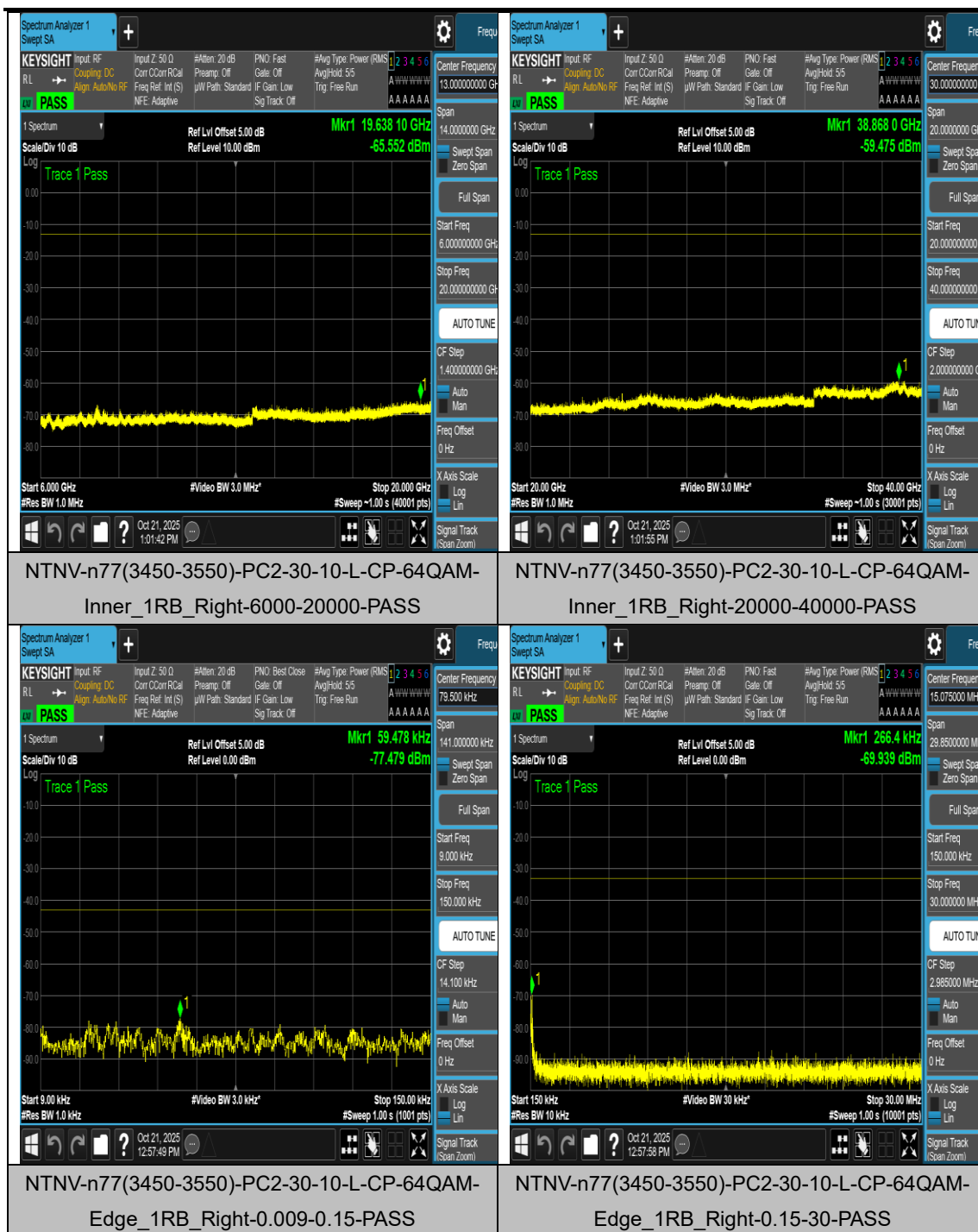
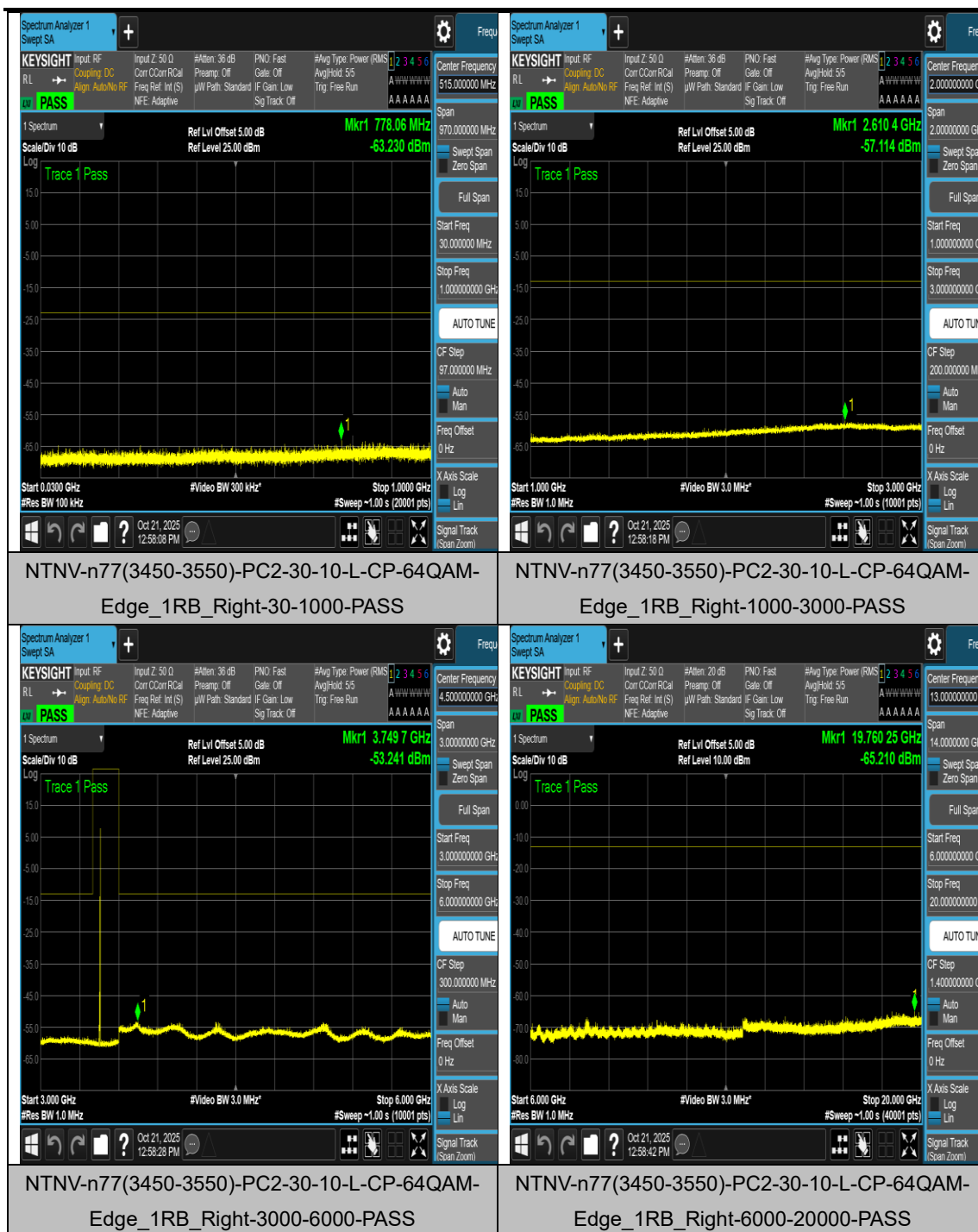
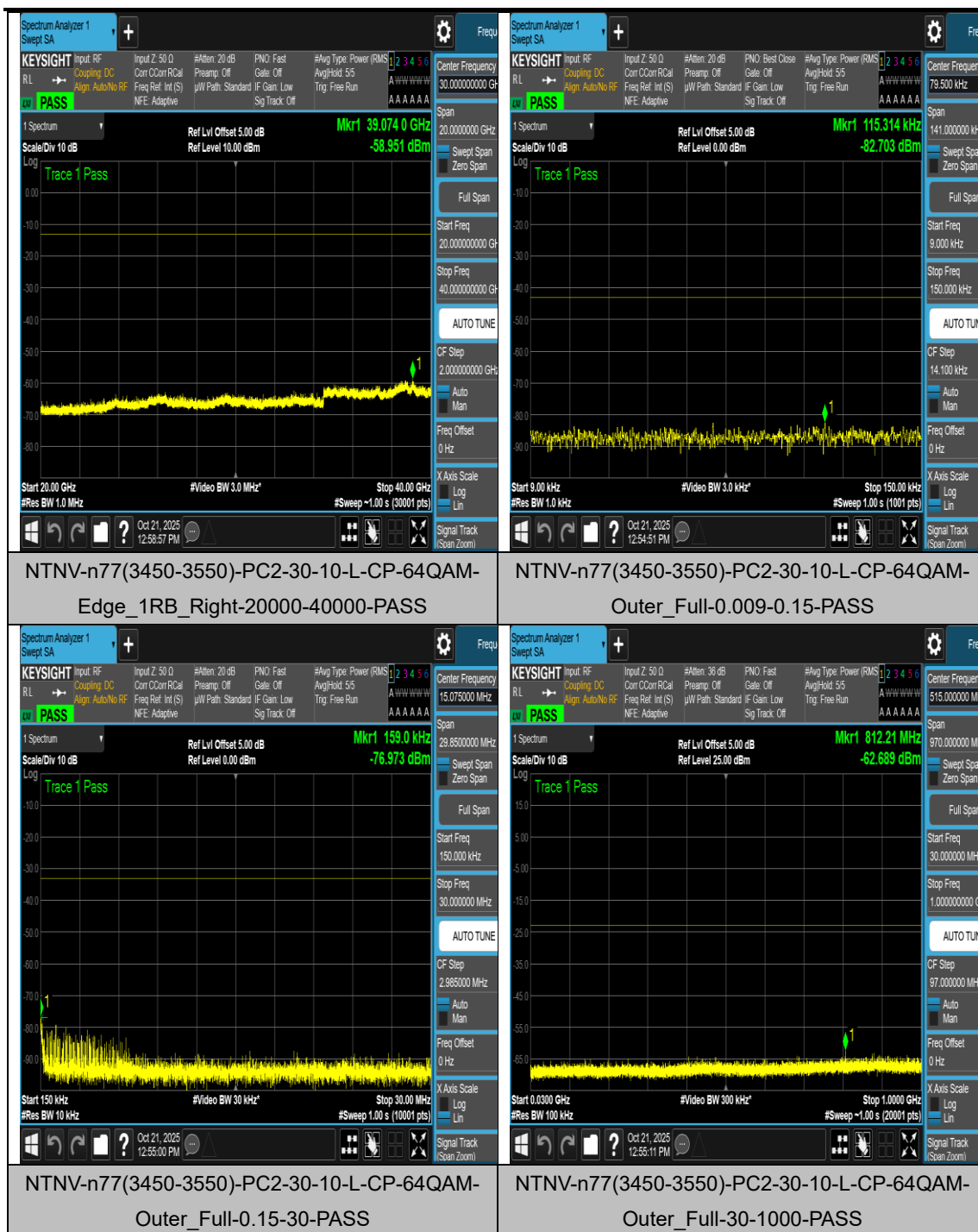


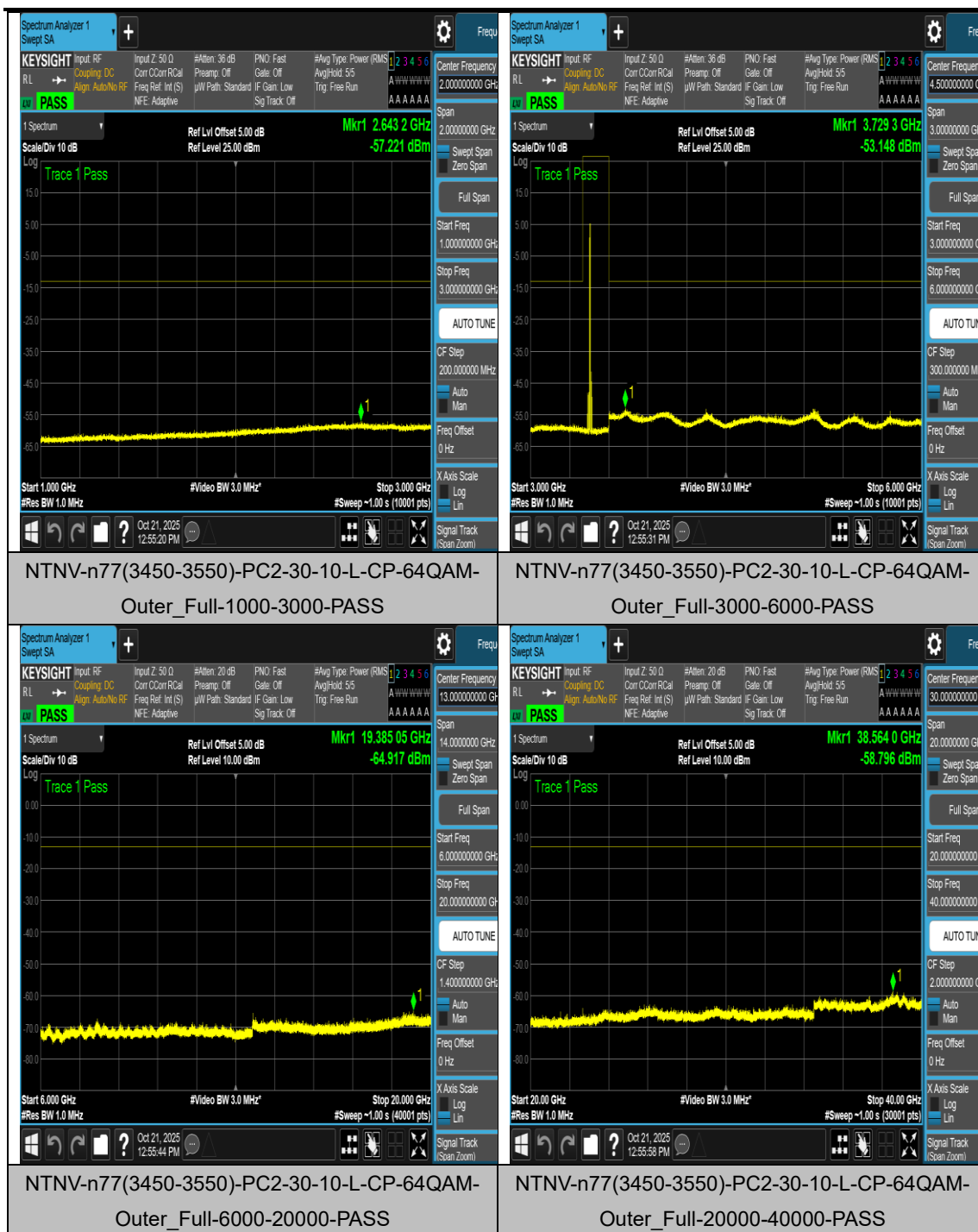




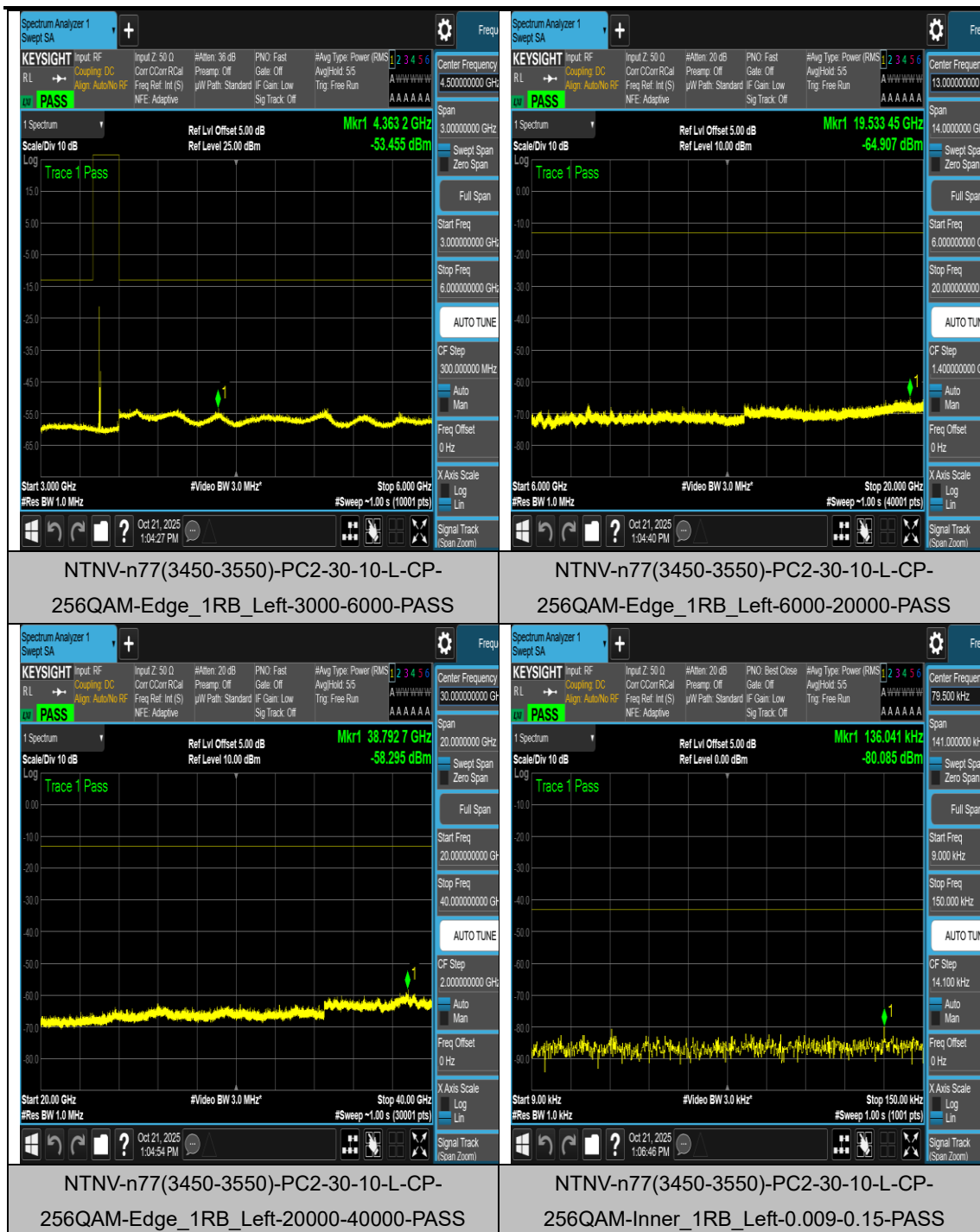


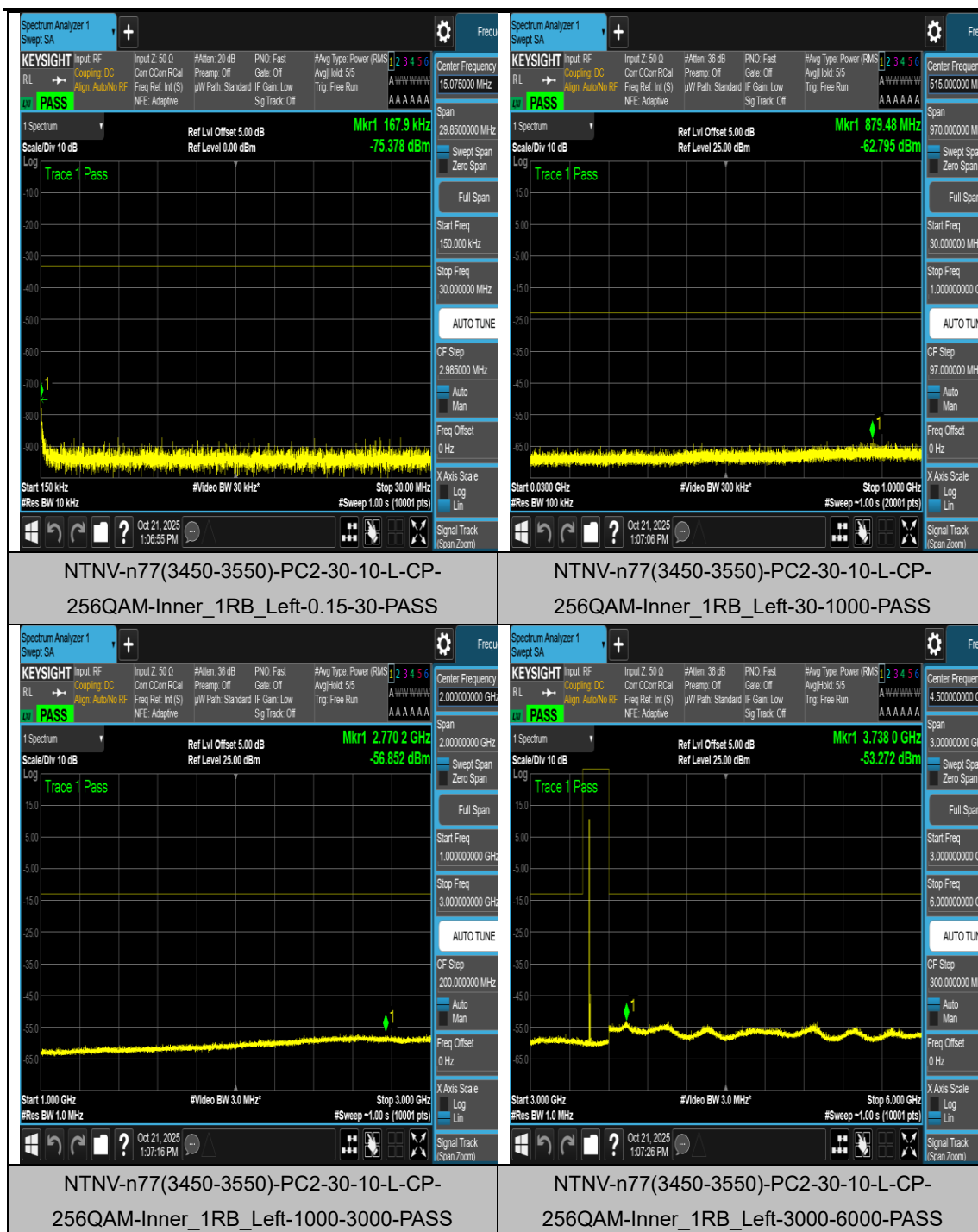


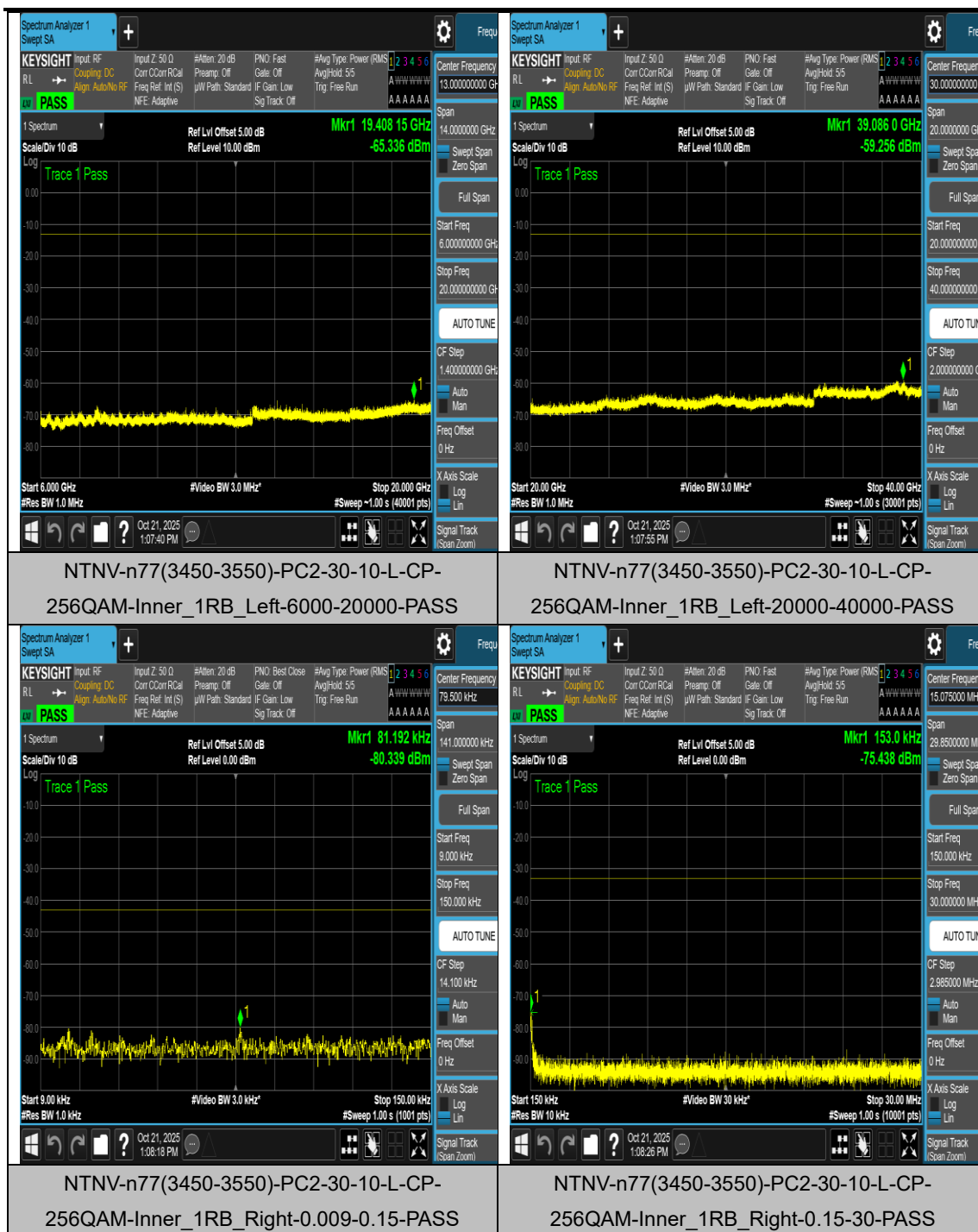


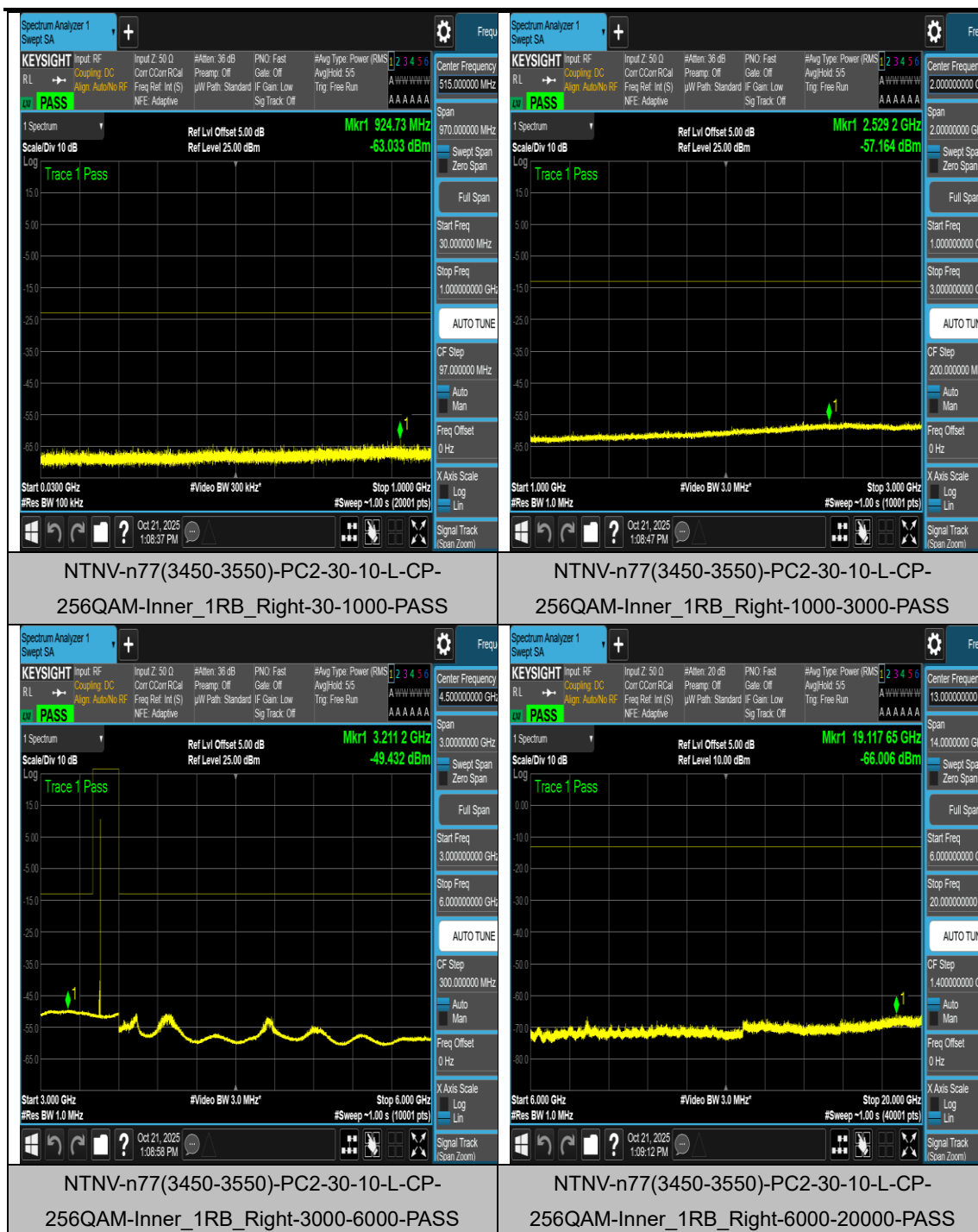


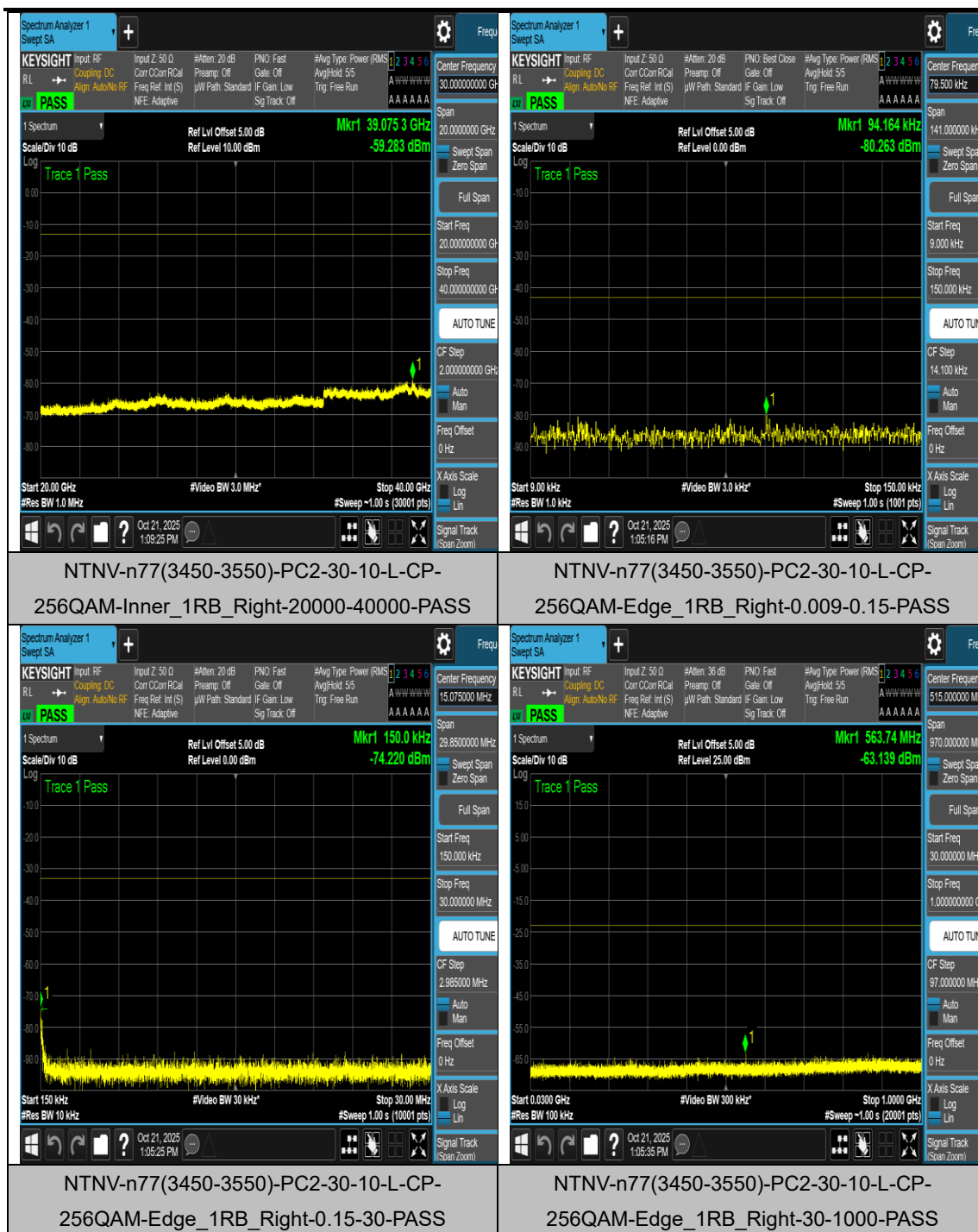


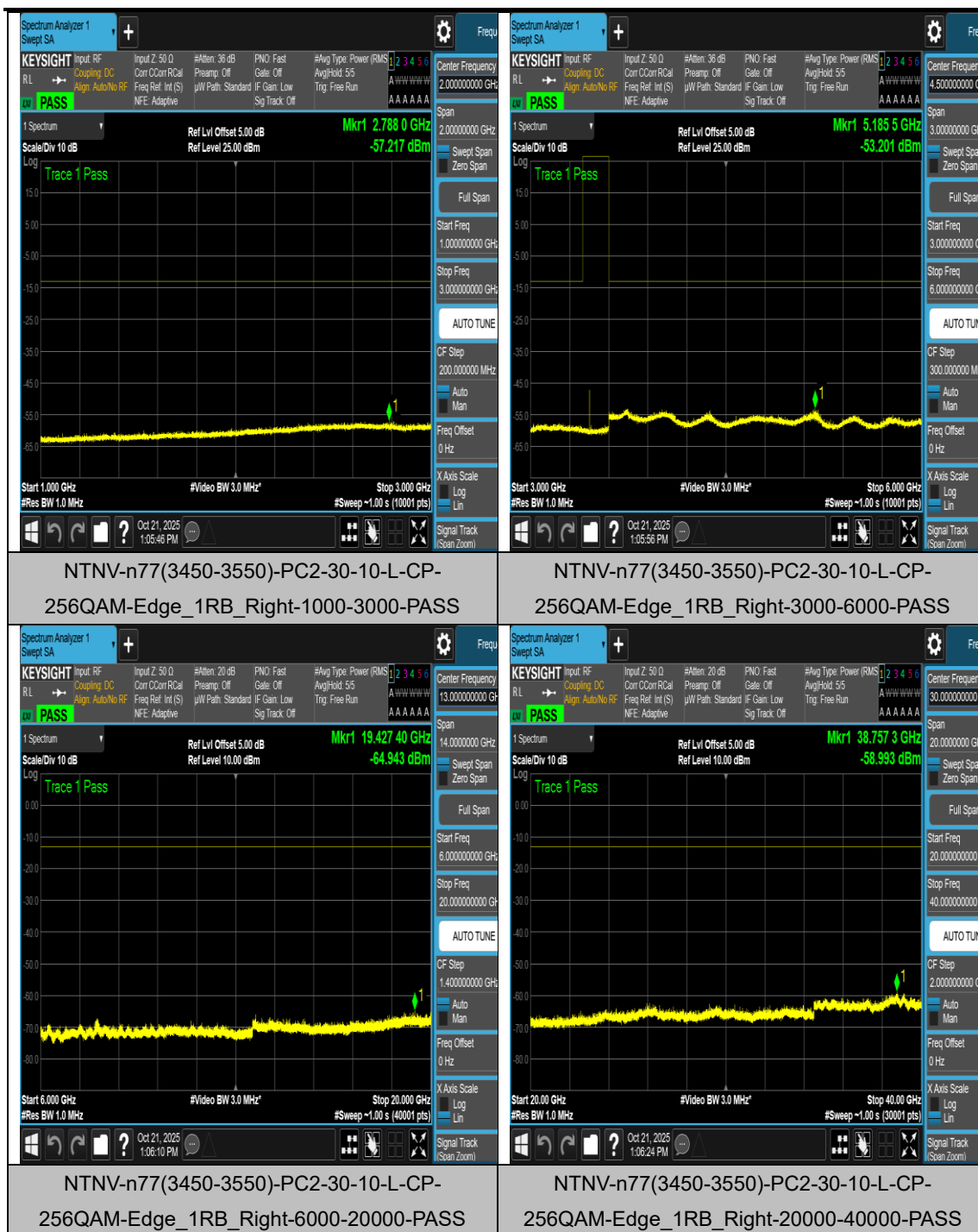




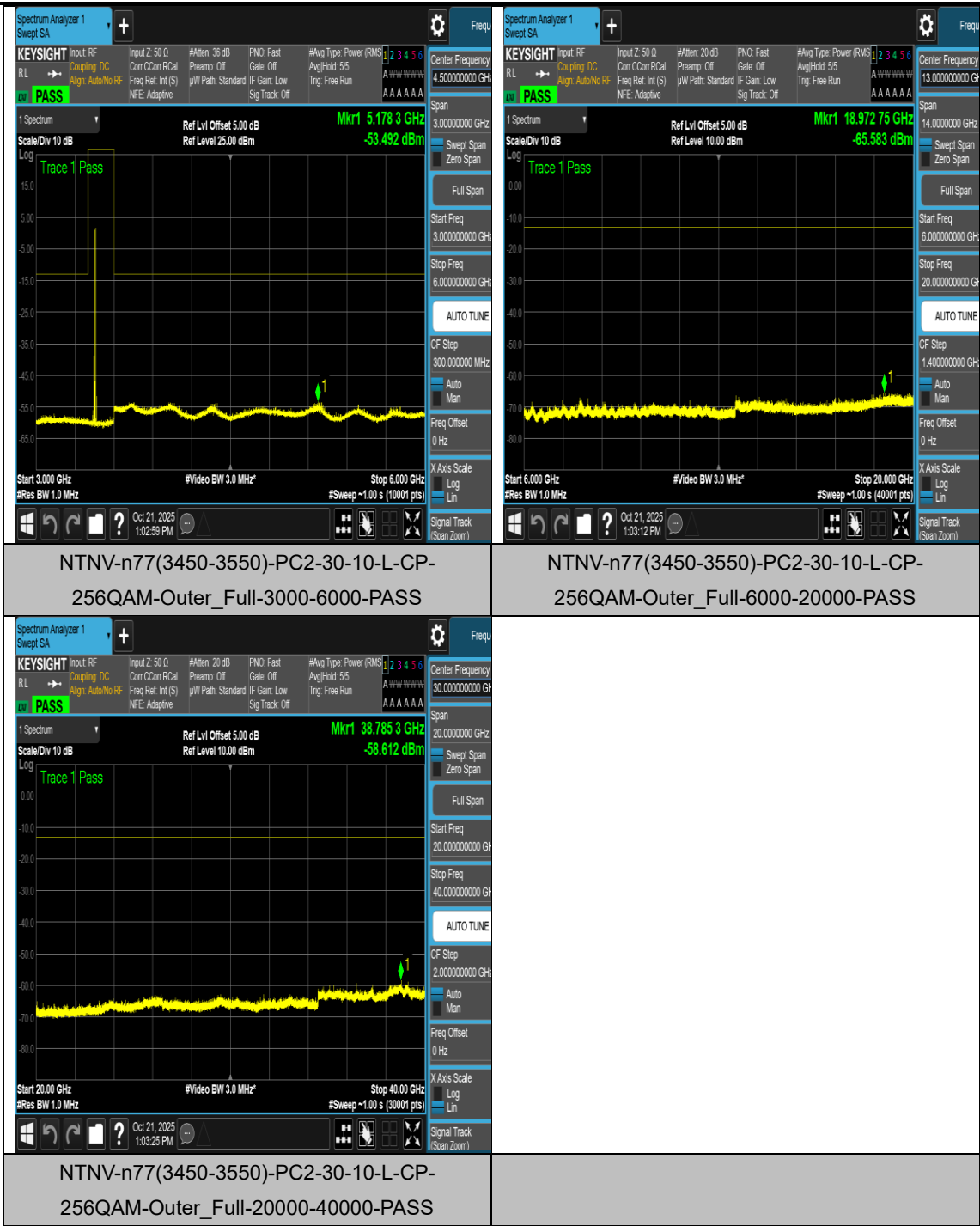












Appendix F: Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage													
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Result (ppm)	Limit (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
n77(3450-3550)	30	10	DFT-BPSK	L	Outer_Full	VL	NT	- 0.005971	- 2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-BPSK	L	Outer_Full	VN	NT	- 0.005371	- 2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-BPSK	L	Outer_Full	VH	NT	- 0.008654	- 2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-QPSK	L	Outer_Full	VL	NT	- 0.005661	- 2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-QPSK	L	Outer_Full	VN	NT	- 0.006097	- 2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-QPSK	L	Outer_Full	VH	NT	- 0.006579	- 2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-16QAM	L	Outer_Full	VL	NT	- 0.005966	- 2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-16QAM	L	Outer_Full	VN	NT	- 0.007773	- 2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-16QAM	L	Outer_Full	VH	NT	- 0.005875	- 2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-64QAM	L	Outer_Full	VL	NT	- 0.005841	- 2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-64QAM	L	Outer_Full	VN	NT	- 0.006985	- 2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-64QAM	L	Outer_Full	VH	NT	- 0.004429	- 2.5~2.5	3450	3550	---	PASS

n77(3 450- 3550)	30	10	DFT- 256Q AM	L	Outer_ Full	VL	NT	- 0.0061 68	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	10	DFT- 256Q AM	L	Outer_ Full	VN	NT	- 0.0076 53	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	10	DFT- 256Q AM	L	Outer_ Full	VH	NT	- 0.0060 59	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	10	CP- QPSK	L	Outer_ Full	VL	NT	- 0.0062 51	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	10	CP- QPSK	L	Outer_ Full	VN	NT	- 0.0081 92	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	10	CP- QPSK	L	Outer_ Full	VH	NT	- 0.0048 18	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	10	CP- 16QA M	L	Outer_ Full	VL	NT	- 0.0041 49	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	10	CP- 16QA M	L	Outer_ Full	VN	NT	- 0.0051 17	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	10	CP- 16QA M	L	Outer_ Full	VH	NT	- 0.0046 28	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	10	CP- 64QA M	L	Outer_ Full	VL	NT	- 0.0067 83	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	10	CP- 64QA M	L	Outer_ Full	VN	NT	- 0.0088 59	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	10	CP- 64QA M	L	Outer_ Full	VH	NT	- 0.0045 33	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	10	CP- 256Q AM	L	Outer_ Full	VL	NT	- 0.0032 5	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	10	CP- 256Q AM	L	Outer_ Full	VN	NT	- 0.0051 02	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	10	CP- 256Q	L	Outer_ Full	VH	NT	- 0.0064	- 2.5~2.	3450	3550	---	PASS

3550)			AM					69	5				
n77(3 450- 3550)	30	100	DFT- BPSK	M	Outer_ Full	VL	NT	- 0.0018 04	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	100	DFT- BPSK	M	Outer_ Full	VN	NT	- 0.0032 59	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	100	DFT- BPSK	M	Outer_ Full	VH	NT	- 0.0042 93	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	100	DFT- QPSK	M	Outer_ Full	VL	NT	0.0007 69	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	100	DFT- QPSK	M	Outer_ Full	VN	NT	- 0.0022 68	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	100	DFT- QPSK	M	Outer_ Full	VH	NT	- 0.0020 56	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	100	DFT- 16QA M	M	Outer_ Full	VL	NT	- 0.0014 95	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	100	DFT- 16QA M	M	Outer_ Full	VN	NT	- 0.0024 82	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	100	DFT- 16QA M	M	Outer_ Full	VH	NT	- 0.0048 32	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	100	DFT- 64QA M	M	Outer_ Full	VL	NT	- 0.0017 47	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	100	DFT- 64QA M	M	Outer_ Full	VN	NT	- 0.0031 45	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	100	DFT- 64QA M	M	Outer_ Full	VH	NT	- 0.0032 68	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	100	DFT- 256Q AM	M	Outer_ Full	VL	NT	- 0.0020 45	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450- 3550)	30	100	DFT- 256Q AM	M	Outer_ Full	VN	NT	- 0.0011 43	- 2.5~2. 5	3450	3550	---	PASS
n77(3	30	100	DFT-	M	Outer_	VH	NT	-	-	3450	3550	---	PASS

450-3550)			256Q AM		Full			0.0012 83	2.5~2. 5				
n77(3 450-3550)	30	100	CP- QPSK	M	Outer_ Full	VL	NT	- 0.0027 33	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450-3550)	30	100	CP- QPSK	M	Outer_ Full	VN	NT	- 0.0005 51	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450-3550)	30	100	CP- QPSK	M	Outer_ Full	VH	NT	- 0.0033 36	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450-3550)	30	100	CP- 16QA M	M	Outer_ Full	VL	NT	- 0.0009 19	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450-3550)	30	100	CP- 16QA M	M	Outer_ Full	VN	NT	- 0.0053 87	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450-3550)	30	100	CP- 16QA M	M	Outer_ Full	VH	NT	- 0.0024 96	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450-3550)	30	100	CP- 64QA M	M	Outer_ Full	VL	NT	- 0.0029	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450-3550)	30	100	CP- 64QA M	M	Outer_ Full	VN	NT	- 0.0005 58	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450-3550)	30	100	CP- 64QA M	M	Outer_ Full	VH	NT	- 0.0025 75	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450-3550)	30	100	CP- 256Q AM	M	Outer_ Full	VL	NT	- 0.0046 72	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450-3550)	30	100	CP- 256Q AM	M	Outer_ Full	VN	NT	0.0007 35	- 2.5~2. 5	3450	3550	---	PASS
n77(3 450-3550)	30	100	CP- 256Q AM	M	Outer_ Full	VH	NT	- 0.3450 58	- 2.5~2. 5	3450	3550	---	PASS

Frequency Error VS. Temperature

Temperature

Band	SC S	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Result (ppm)	Limit (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
n77(3450-3550)	30	10	DFT-BPSK	L	Outer_Full	NV	-30	- 0.0052 28	- 2.5~2.5 .5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-BPSK	L	Outer_Full	NV	-20	- 0.0044 82	- 2.5~2.5 .5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-BPSK	L	Outer_Full	NV	-10	- 0.0059 94	- 2.5~2.5 .5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-BPSK	L	Outer_Full	NV	0	- 0.0043 43	- 2.5~2.5 .5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-BPSK	L	Outer_Full	NV	10	- 0.0049 92	- 2.5~2.5 .5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-BPSK	L	Outer_Full	NV	20	- 0.0058 24	- 2.5~2.5 .5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-BPSK	L	Outer_Full	NV	30	- 0.0031 56	- 2.5~2.5 .5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-BPSK	L	Outer_Full	NV	40	- 0.0067 68	- 2.5~2.5 .5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-BPSK	L	Outer_Full	NV	50	- 0.0073 37	- 2.5~2.5 .5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-QPSK	L	Outer_Full	NV	-30	- 0.0086 3	- 2.5~2.5 .5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-QPSK	L	Outer_Full	NV	-20	- 0.0085 3	- 2.5~2.5 .5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-QPSK	L	Outer_Full	NV	-10	- 0.0070 67	- 2.5~2.5 .5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-QPSK	L	Outer_Full	NV	0	- 0.0093 36	- 2.5~2.5 .5	3450	3550	---	PASS
n77(3450-3550)	30	10	DFT-QPSK	L	Outer_Full	NV	10	- 0.0087 12	- 2.5~2.5 .5	3450	3550	---	PASS

n77(34 50- 3550)	30	10	DFT- QPSK	L	Outer_F ull	NV	20	- 0.0069 75	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- QPSK	L	Outer_F ull	NV	30	- 0.0064 94	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- QPSK	L	Outer_F ull	NV	40	- 0.0061 78	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- QPSK	L	Outer_F ull	NV	50	- 0.0086 72	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 16QAM	L	Outer_F ull	NV	-30	- 0.0072 39	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 16QAM	L	Outer_F ull	NV	-20	- 0.0050 59	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 16QAM	L	Outer_F ull	NV	-10	- 0.0079 95	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 16QAM	L	Outer_F ull	NV	0	- 0.0080 79	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 16QAM	L	Outer_F ull	NV	10	- 0.0052 97	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 16QAM	L	Outer_F ull	NV	20	- 0.0074 46	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 16QAM	L	Outer_F ull	NV	30	- 0.0090 46	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 16QAM	L	Outer_F ull	NV	40	- 0.0045 63	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 16QAM	L	Outer_F ull	NV	50	- 0.0057 08	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 64QAM	L	Outer_F ull	NV	-30	- 0.0045 8	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 64QAM	L	Outer_F ull	NV	-20	- 0.0059	- 2.5~2	345 0	355 0	---	PAS S

3550)								32	.5				
n77(34 50- 3550)	30	10	DFT- 64QAM	L	Outer_F ull	NV	-10	- 0.0059 24	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 64QAM	L	Outer_F ull	NV	0	- 0.0067 23	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 64QAM	L	Outer_F ull	NV	10	- 0.0081 64	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 64QAM	L	Outer_F ull	NV	20	- 0.0056 04	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 64QAM	L	Outer_F ull	NV	30	- 0.0064 34	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 64QAM	L	Outer_F ull	NV	40	- 0.0071 4	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 64QAM	L	Outer_F ull	NV	50	- 0.0055 38	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 256QA M	L	Outer_F ull	NV	-30	- 0.0053 84	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 256QA M	L	Outer_F ull	NV	-20	- 0.0084 37	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 256QA M	L	Outer_F ull	NV	-10	- 0.0067 68	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 256QA M	L	Outer_F ull	NV	0	- 0.0037 85	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 256QA M	L	Outer_F ull	NV	10	- 0.0037 06	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 256QA M	L	Outer_F ull	NV	20	- 0.0051 98	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	DFT- 256QA M	L	Outer_F ull	NV	30	- 0.0048 22	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34	30	10	DFT-	L	Outer_F	NV	40	-	-	345	355	---	PAS

50-3550)			256QAM		ull			0.006321	2.5~2.5	0	0		S
n77(3450-3550)	30	10	DFT-256QAM	L	Outer_Full	NV	50	-0.004673	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	CP-QPSK	L	Outer_Full	NV	-30	-0.003438	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	CP-QPSK	L	Outer_Full	NV	-20	-0.004558	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	CP-QPSK	L	Outer_Full	NV	-10	-0.006799	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	CP-QPSK	L	Outer_Full	NV	0	-0.005675	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	CP-QPSK	L	Outer_Full	NV	10	-0.00406	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	CP-QPSK	L	Outer_Full	NV	20	-0.005866	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	CP-QPSK	L	Outer_Full	NV	30	-0.007766	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	CP-QPSK	L	Outer_Full	NV	40	-0.008709	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	CP-QPSK	L	Outer_Full	NV	50	-0.005703	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	CP-16QAM	L	Outer_Full	NV	-30	-0.005609	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	CP-16QAM	L	Outer_Full	NV	-20	-0.008153	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	CP-16QAM	L	Outer_Full	NV	-10	-0.00843	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	10	CP-16QAM	L	Outer_Full	NV	0	-0.007908	-2.5~2.5	3450	3550	---	PASS

n77(34 50- 3550)	30	10	CP- 16QAM	L	Outer_F ull	NV	10	- 0.0044 2	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	CP- 16QAM	L	Outer_F ull	NV	20	- 0.0051 59	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	CP- 16QAM	L	Outer_F ull	NV	30	- 0.0062 9	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	CP- 16QAM	L	Outer_F ull	NV	40	- 0.0082 61	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	CP- 16QAM	L	Outer_F ull	NV	50	- 0.0076 65	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	CP- 64QAM	L	Outer_F ull	NV	-30	- 0.0058 14	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	CP- 64QAM	L	Outer_F ull	NV	-20	- 0.0044 44	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	CP- 64QAM	L	Outer_F ull	NV	-10	- 0.0087 31	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	CP- 64QAM	L	Outer_F ull	NV	0	- 0.0084 28	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	CP- 64QAM	L	Outer_F ull	NV	10	- 0.0060 48	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	CP- 64QAM	L	Outer_F ull	NV	20	- 0.0062 2	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	CP- 64QAM	L	Outer_F ull	NV	30	- 0.0066 35	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	CP- 64QAM	L	Outer_F ull	NV	40	- 0.0070 85	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	CP- 64QAM	L	Outer_F ull	NV	50	- 0.0063 61	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	CP- 256QA	L	Outer_F ull	NV	-30	- 0.0055	- 2.5~2	345 0	355 0	---	PAS S

3550)			M					14	.5				
n77(34 50- 3550)	30	10	CP- 256QA M	L	Outer_F ull	NV	-20	- 0.0070 11	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	CP- 256QA M	L	Outer_F ull	NV	-10	- 0.0069 4	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	CP- 256QA M	L	Outer_F ull	NV	0	- 0.0034 65	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	CP- 256QA M	L	Outer_F ull	NV	10	- 0.0039 54	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	CP- 256QA M	L	Outer_F ull	NV	20	- 0.0044 54	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	CP- 256QA M	L	Outer_F ull	NV	30	- 0.0068 75	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	CP- 256QA M	L	Outer_F ull	NV	40	- 0.0077 92	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	10	CP- 256QA M	L	Outer_F ull	NV	50	- 0.0061 88	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- BPSK	M	Outer_F ull	NV	-30	- 0.0023 53	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- BPSK	M	Outer_F ull	NV	-20	- 0.0024 07	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- BPSK	M	Outer_F ull	NV	-10	- 0.0030 26	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- BPSK	M	Outer_F ull	NV	0	- 0.0036 85	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- BPSK	M	Outer_F ull	NV	10	- 0.0018 12	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- BPSK	M	Outer_F ull	NV	20	- 0.0029 66	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34	30	100	DFT-	M	Outer_F	NV	30	-	-	345	355	---	PAS

50-3550)			BPSK		ull			0.005837	2.5~2.5	0	0		S
n77(3450-3550)	30	100	DFT-BPSK	M	Outer_Full	NV	40	-0.001844	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	DFT-BPSK	M	Outer_Full	NV	50	-0.001582	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	DFT-QPSK	M	Outer_Full	NV	-30	-0.003736	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	DFT-QPSK	M	Outer_Full	NV	-20	-0.003956	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	DFT-QPSK	M	Outer_Full	NV	-10	-0.003733	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	DFT-QPSK	M	Outer_Full	NV	0	-0.003381	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	DFT-QPSK	M	Outer_Full	NV	10	-0.0037	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	DFT-QPSK	M	Outer_Full	NV	20	-0.005588	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	DFT-QPSK	M	Outer_Full	NV	30	-0.001414	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	DFT-QPSK	M	Outer_Full	NV	40	-0.003539	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	DFT-QPSK	M	Outer_Full	NV	50	-0.00362	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	DFT-16QAM	M	Outer_Full	NV	-30	-0.004345	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	DFT-16QAM	M	Outer_Full	NV	-20	-0.003785	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	DFT-16QAM	M	Outer_Full	NV	-10	-0.004605	-2.5~2.5	3450	3550	---	PASS

n77(34 50- 3550)	30	100	DFT- 16QAM	M	Outer_F ull	NV	0	- 0.0024 86	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 16QAM	M	Outer_F ull	NV	10	- 0.0026 68	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 16QAM	M	Outer_F ull	NV	20	- 0.0025 25	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 16QAM	M	Outer_F ull	NV	30	- 0.0020 44	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 16QAM	M	Outer_F ull	NV	40	- 0.0045 19	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 16QAM	M	Outer_F ull	NV	50	- 0.0023 63	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 64QAM	M	Outer_F ull	NV	-30	- 0.0015 67	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 64QAM	M	Outer_F ull	NV	-20	- 0.0022 82	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 64QAM	M	Outer_F ull	NV	-10	- 0.0045 31	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 64QAM	M	Outer_F ull	NV	0	- 0.0044 53	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 64QAM	M	Outer_F ull	NV	10	- 0.0020 66	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 64QAM	M	Outer_F ull	NV	20	- 0.0033 94	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 64QAM	M	Outer_F ull	NV	30	- 0.0019 86	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 64QAM	M	Outer_F ull	NV	40	- 0.0038 62	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 64QAM	M	Outer_F ull	NV	50	- 0.0014	- 2.5~2	345 0	355 0	---	PAS S

3550)								05	.5				
n77(34 50- 3550)	30	100	DFT- 256QA M	M	Outer_F ull	NV	-30	- 0.0035 88	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 256QA M	M	Outer_F ull	NV	-20	- 0.0041 25	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 256QA M	M	Outer_F ull	NV	-10	- 0.0031 79	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 256QA M	M	Outer_F ull	NV	0	-5.6E- 05	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 256QA M	M	Outer_F ull	NV	10	- 0.0010 23	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 256QA M	M	Outer_F ull	NV	20	- 0.0049 72	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 256QA M	M	Outer_F ull	NV	30	- 0.0036 54	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 256QA M	M	Outer_F ull	NV	40	- 0.0024 14	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	DFT- 256QA M	M	Outer_F ull	NV	50	- 0.0032 74	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	CP- QPSK	M	Outer_F ull	NV	-30	- 0.0042 87	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	CP- QPSK	M	Outer_F ull	NV	-20	- 0.0031 95	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	CP- QPSK	M	Outer_F ull	NV	-10	- 0.0040 6	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	CP- QPSK	M	Outer_F ull	NV	0	- 0.0031 59	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	CP- QPSK	M	Outer_F ull	NV	10	- 0.0013 58	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34	30	100	CP-	M	Outer_F	NV	20	-	-	345	355	---	PAS

50-3550)			QPSK		ull			0.004672	2.5~2.5	0	0		S
n77(3450-3550)	30	100	CP-QPSK	M	Outer_Full	NV	30	0.000461	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	CP-QPSK	M	Outer_Full	NV	40	0.004981	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	CP-QPSK	M	Outer_Full	NV	50	0.003075	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	CP-16QAM	M	Outer_Full	NV	-30	0.000334	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	CP-16QAM	M	Outer_Full	NV	-20	0.001789	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	CP-16QAM	M	Outer_Full	NV	-10	0.003375	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	CP-16QAM	M	Outer_Full	NV	0	0.001407	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	CP-16QAM	M	Outer_Full	NV	10	0.002195	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	CP-16QAM	M	Outer_Full	NV	20	0.004003	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	CP-16QAM	M	Outer_Full	NV	30	0.004882	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	CP-16QAM	M	Outer_Full	NV	40	0.001959	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	CP-16QAM	M	Outer_Full	NV	50	0.002989	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	CP-64QAM	M	Outer_Full	NV	-30	0.00418	-2.5~2.5	3450	3550	---	PASS
n77(3450-3550)	30	100	CP-64QAM	M	Outer_Full	NV	-20	0.000639	-2.5~2.5	3450	3550	---	PASS

n77(34 50- 3550)	30	100	CP- 64QAM	M	Outer_F ull	NV	-10	- 0.0038 59	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	CP- 64QAM	M	Outer_F ull	NV	0	- 0.0026 5	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	CP- 64QAM	M	Outer_F ull	NV	10	- 0.0008 77	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	CP- 64QAM	M	Outer_F ull	NV	20	- 0.0020 68	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	CP- 64QAM	M	Outer_F ull	NV	30	- 0.0040 85	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	CP- 64QAM	M	Outer_F ull	NV	40	- 0.0028 5	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	CP- 64QAM	M	Outer_F ull	NV	50	- 0.0040 33	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	CP- 256QA M	M	Outer_F ull	NV	-30	- 0.0037 85	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	CP- 256QA M	M	Outer_F ull	NV	-20	- 0.0046 05	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	CP- 256QA M	M	Outer_F ull	NV	-10	- 1.9035 41	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	CP- 256QA M	M	Outer_F ull	NV	0	- 0.0015 67	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	CP- 256QA M	M	Outer_F ull	NV	10	- 1.3993 83	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	CP- 256QA M	M	Outer_F ull	NV	20	- 0.0077 92	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	CP- 256QA M	M	Outer_F ull	NV	30	- 0.0061 88	- 2.5~2 .5	345 0	355 0	---	PAS S
n77(34 50- 3550)	30	100	CP- 256QA	M	Outer_F ull	NV	40	- 0.0023	- 2.5~2	345 0	355 0	---	PAS S