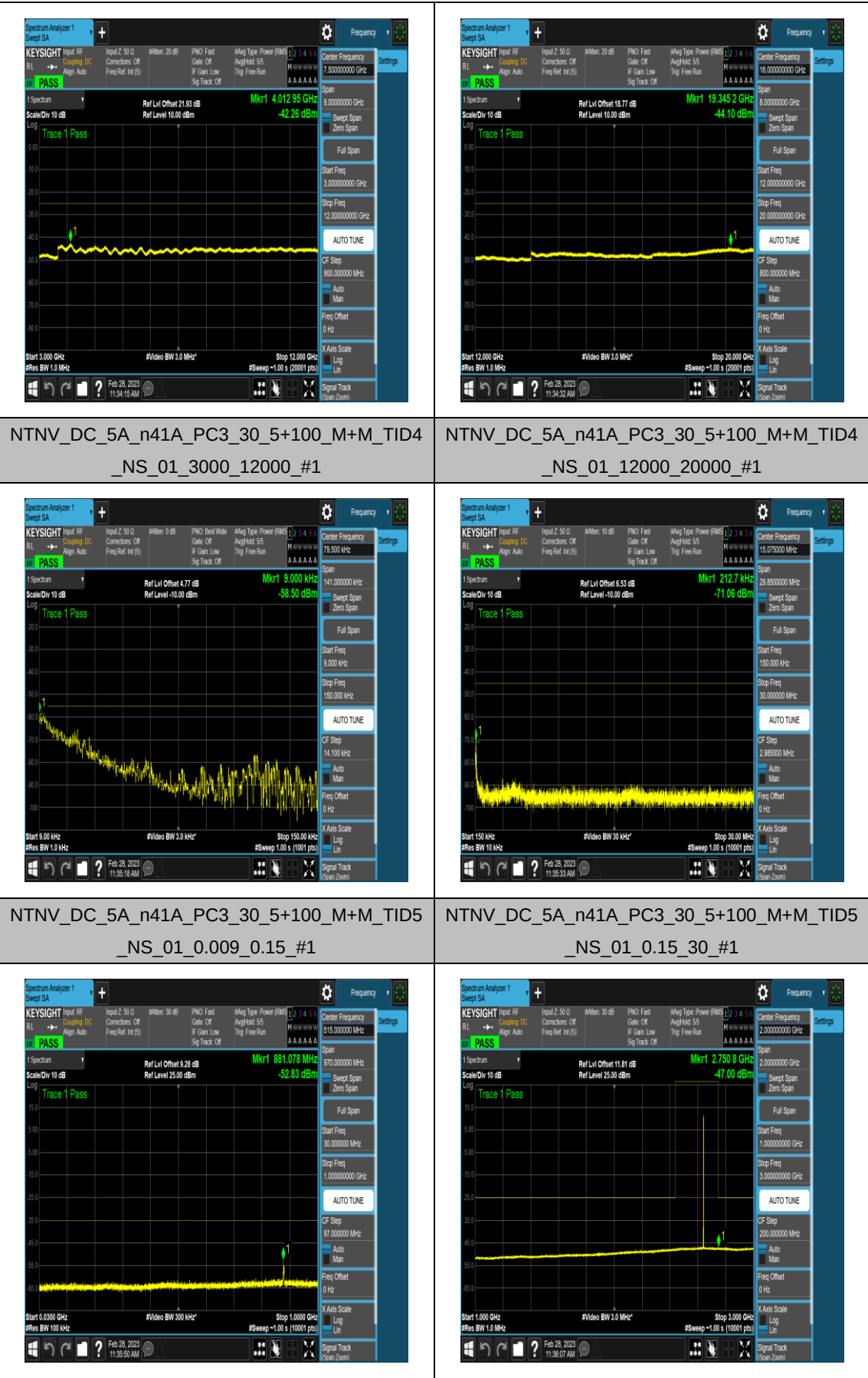
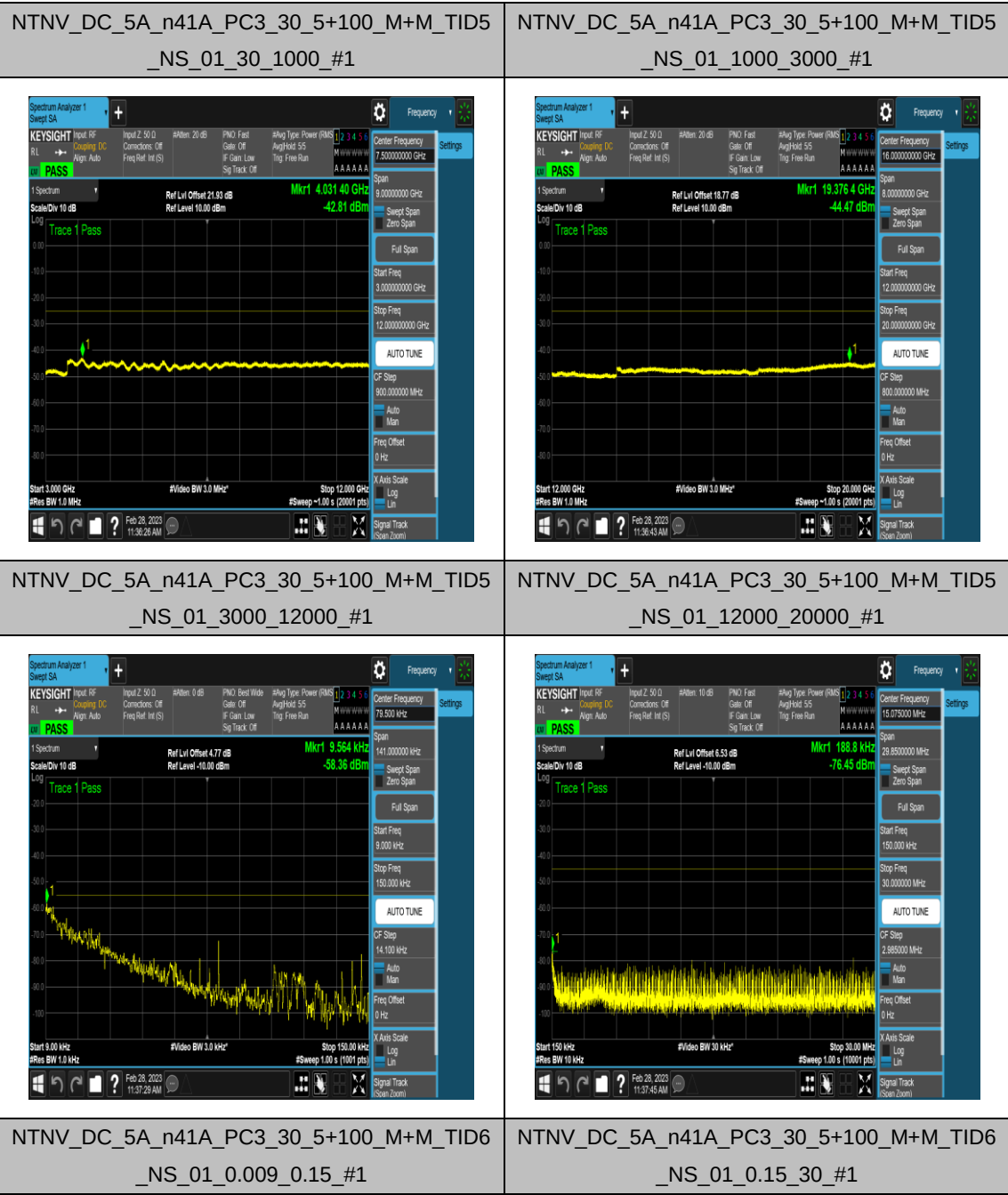
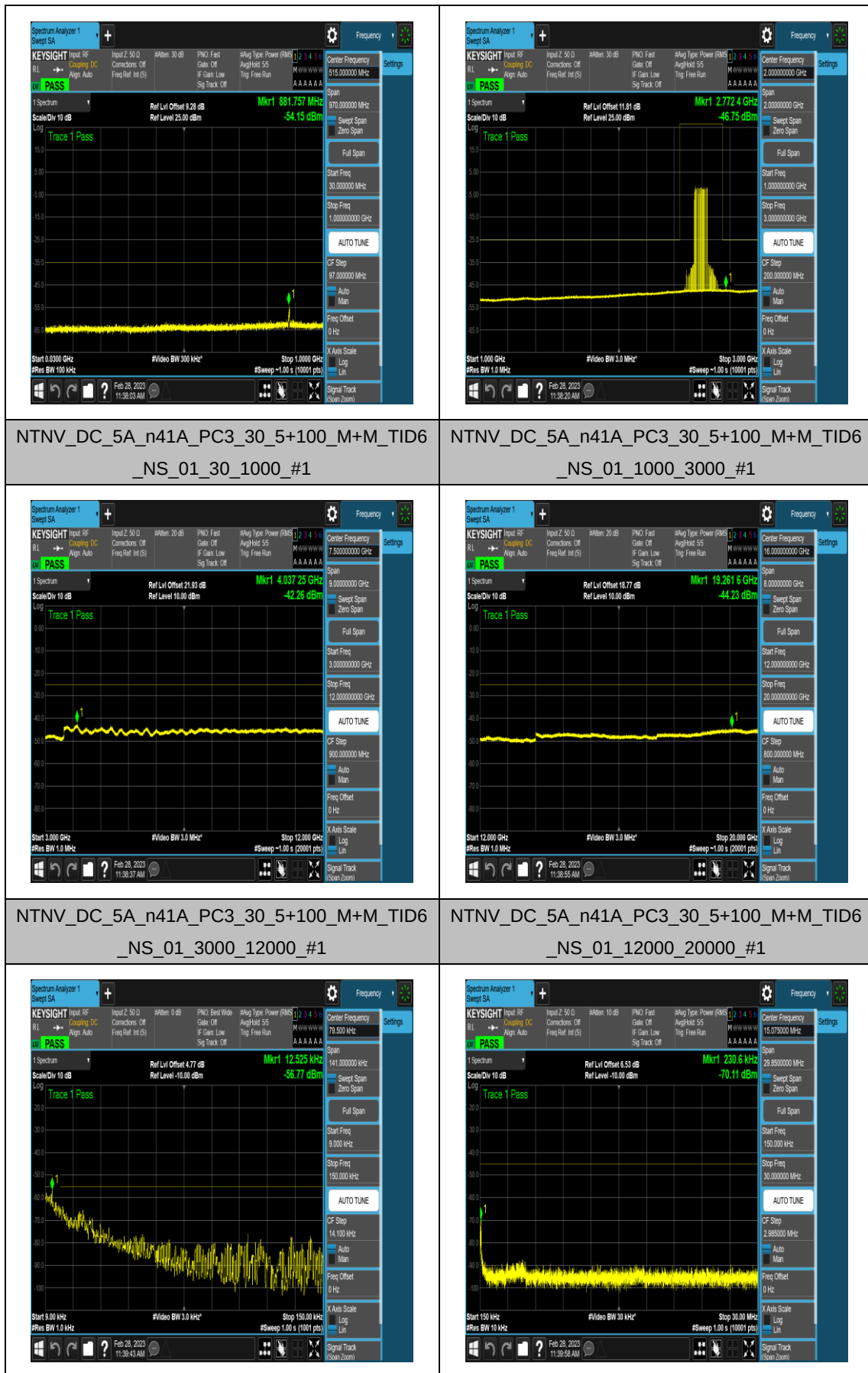
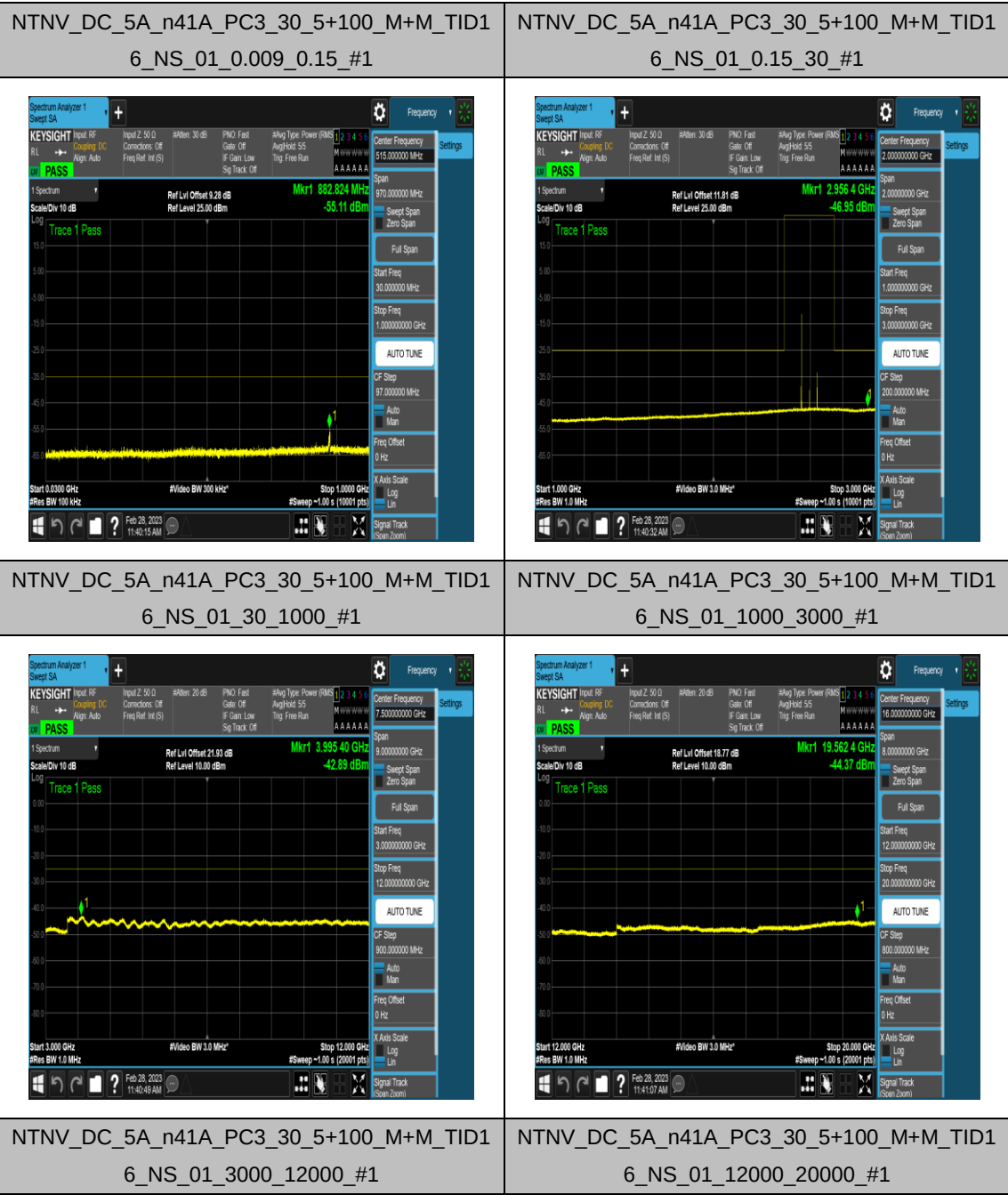
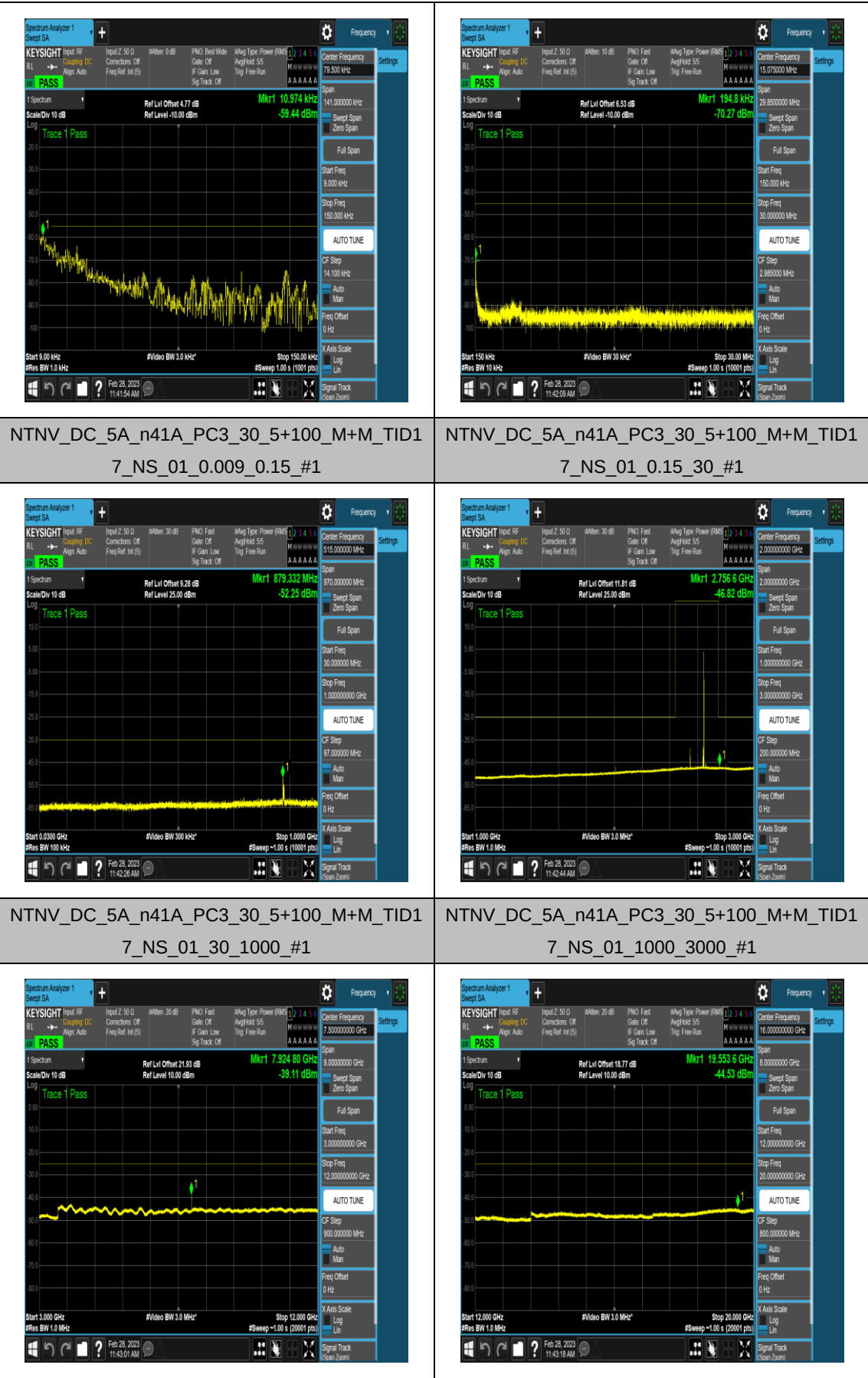


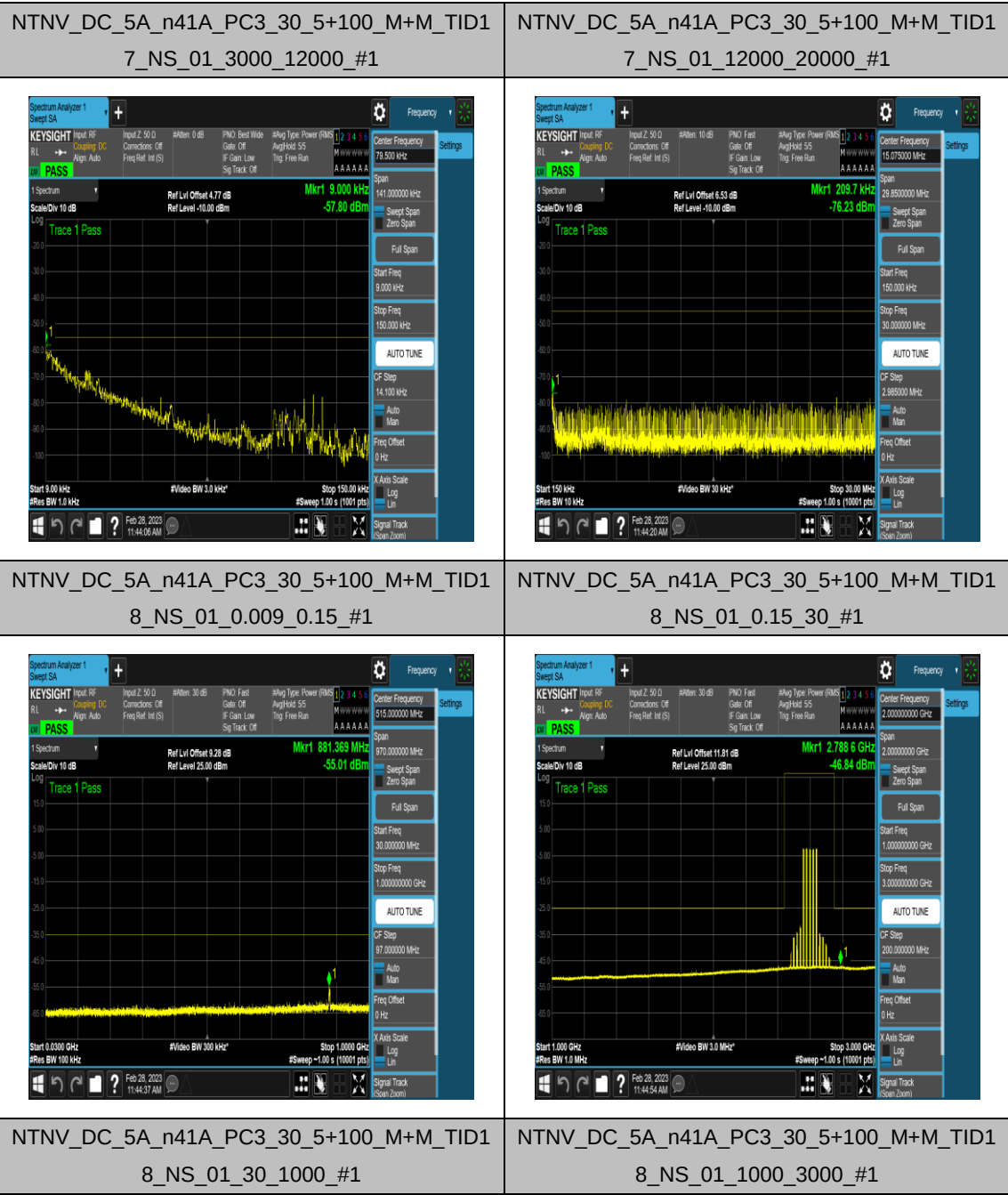


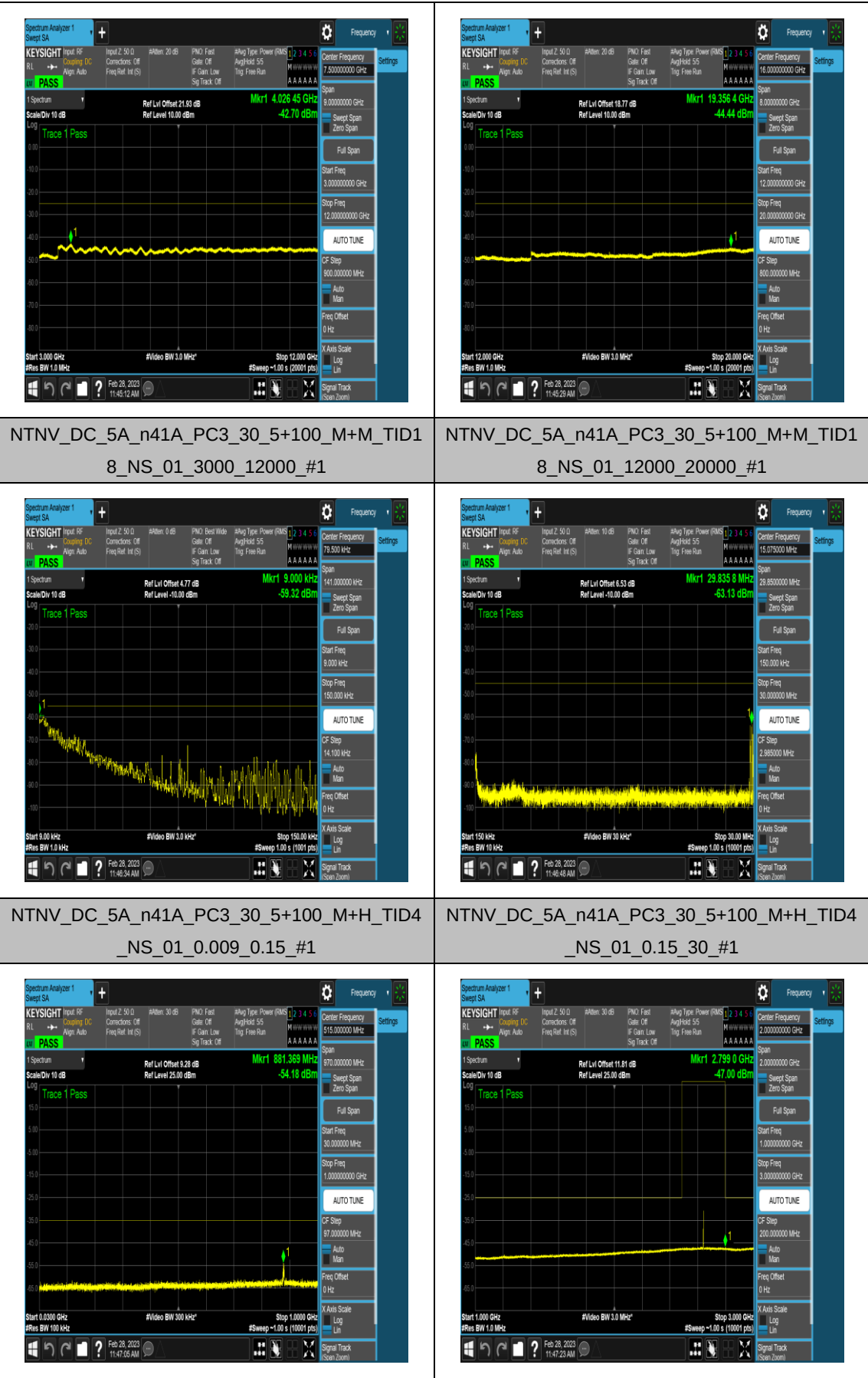


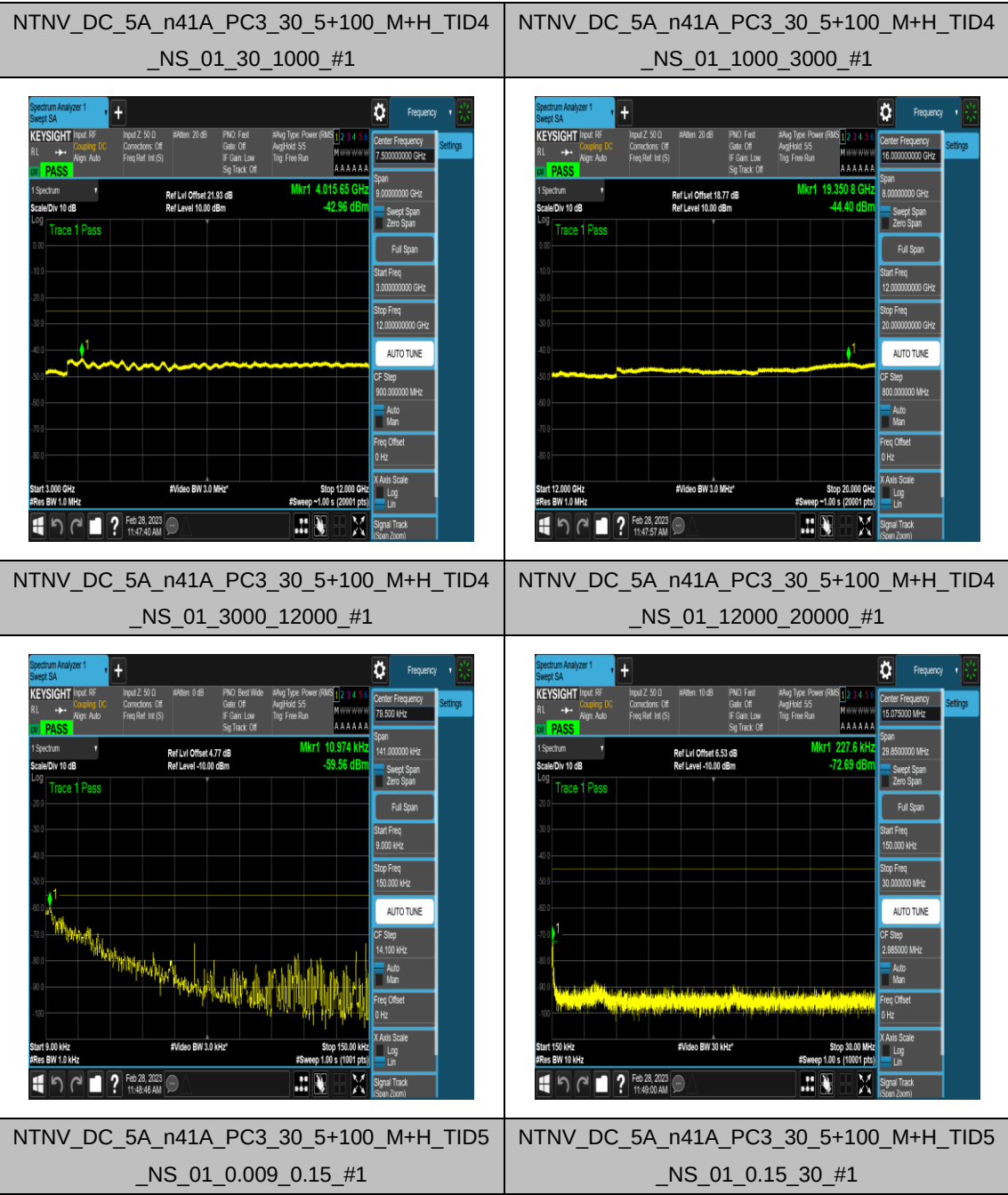


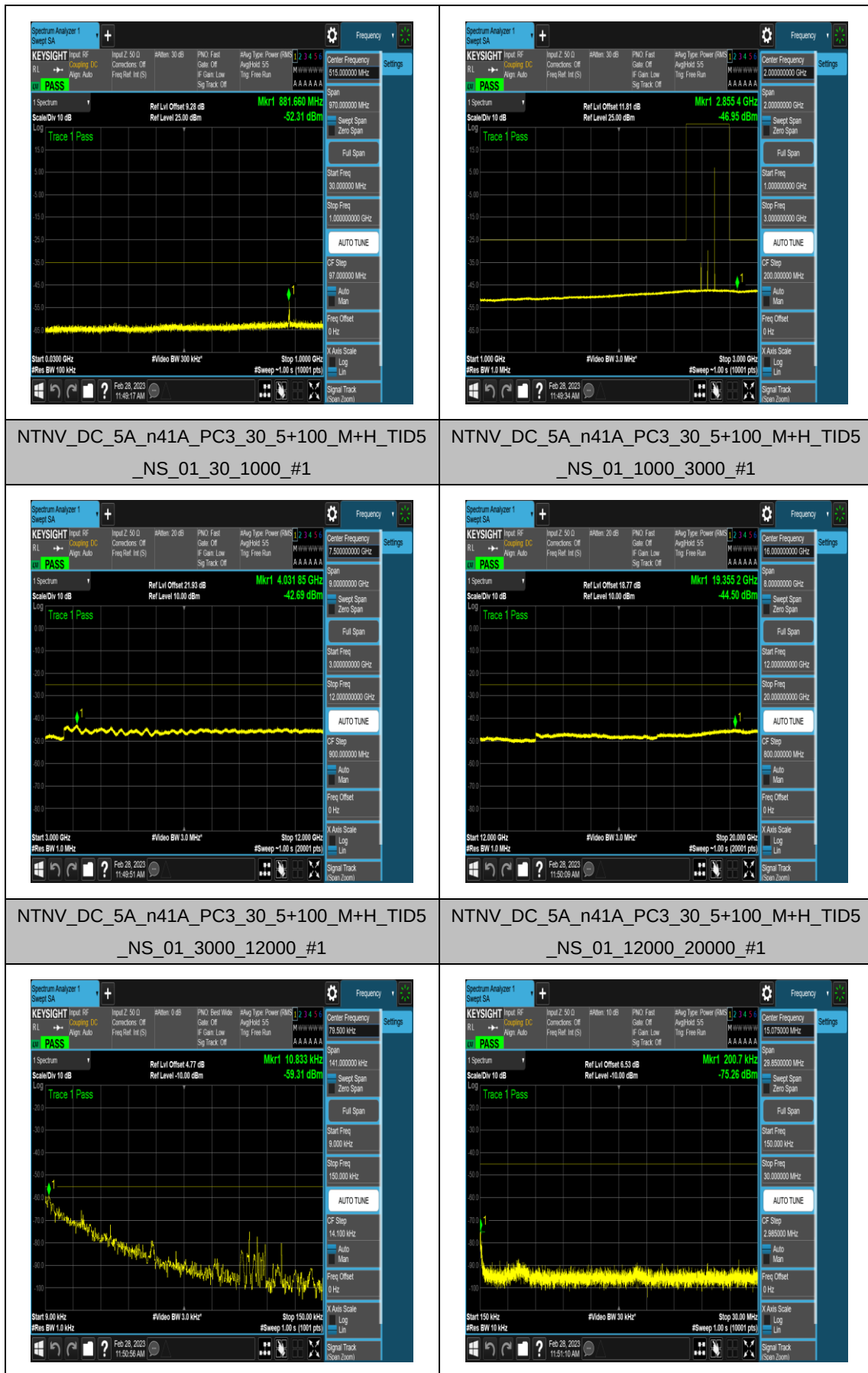


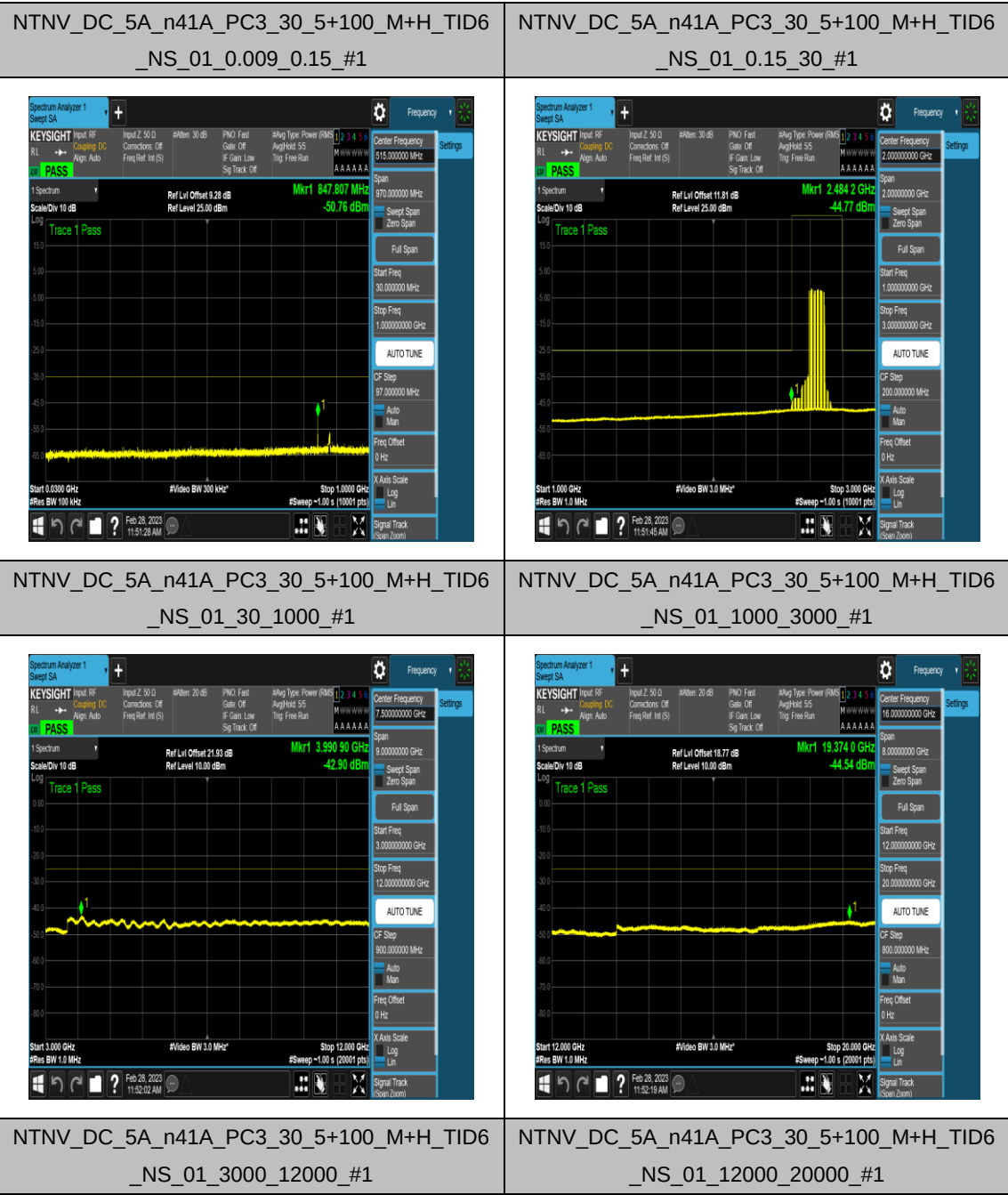


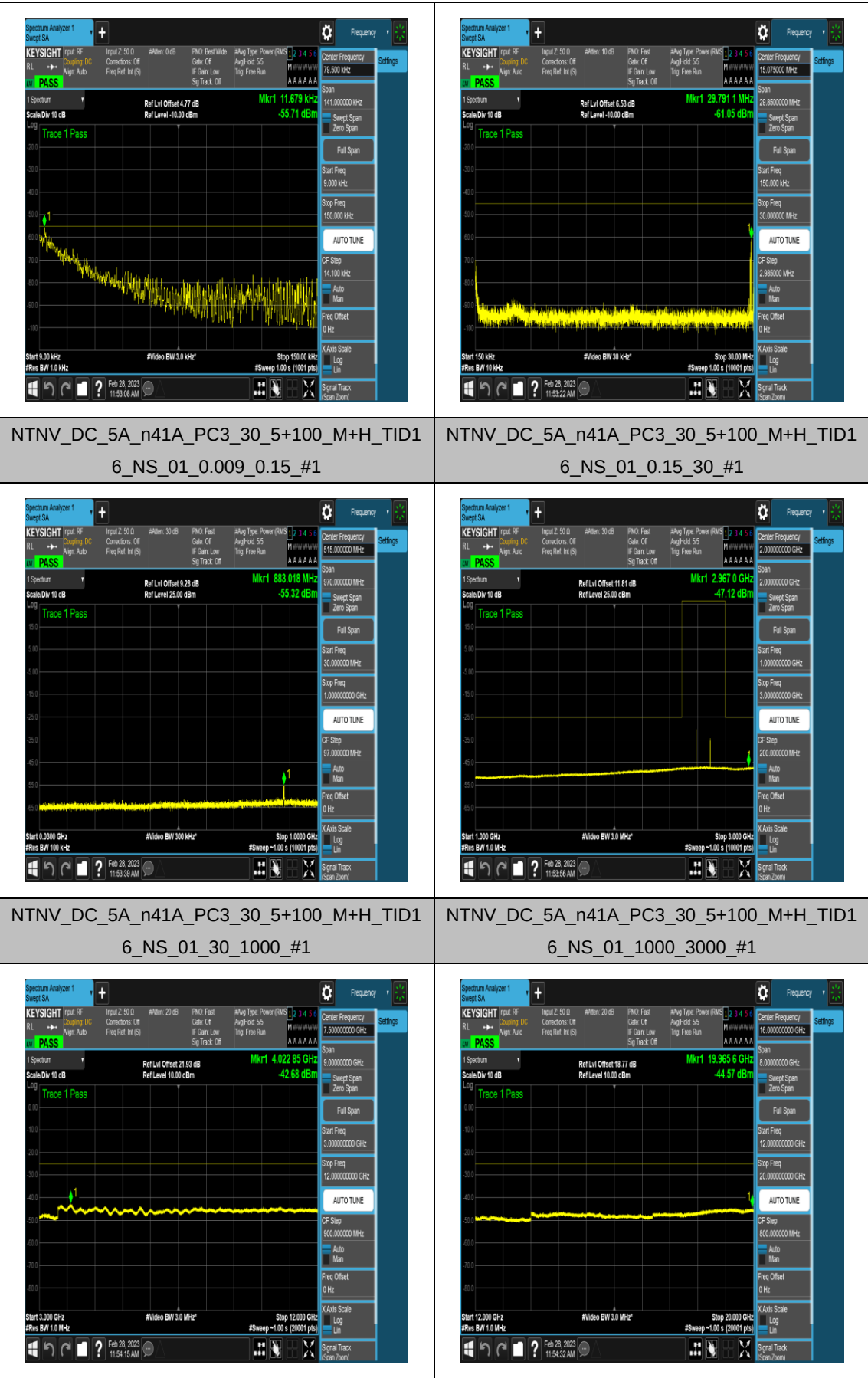


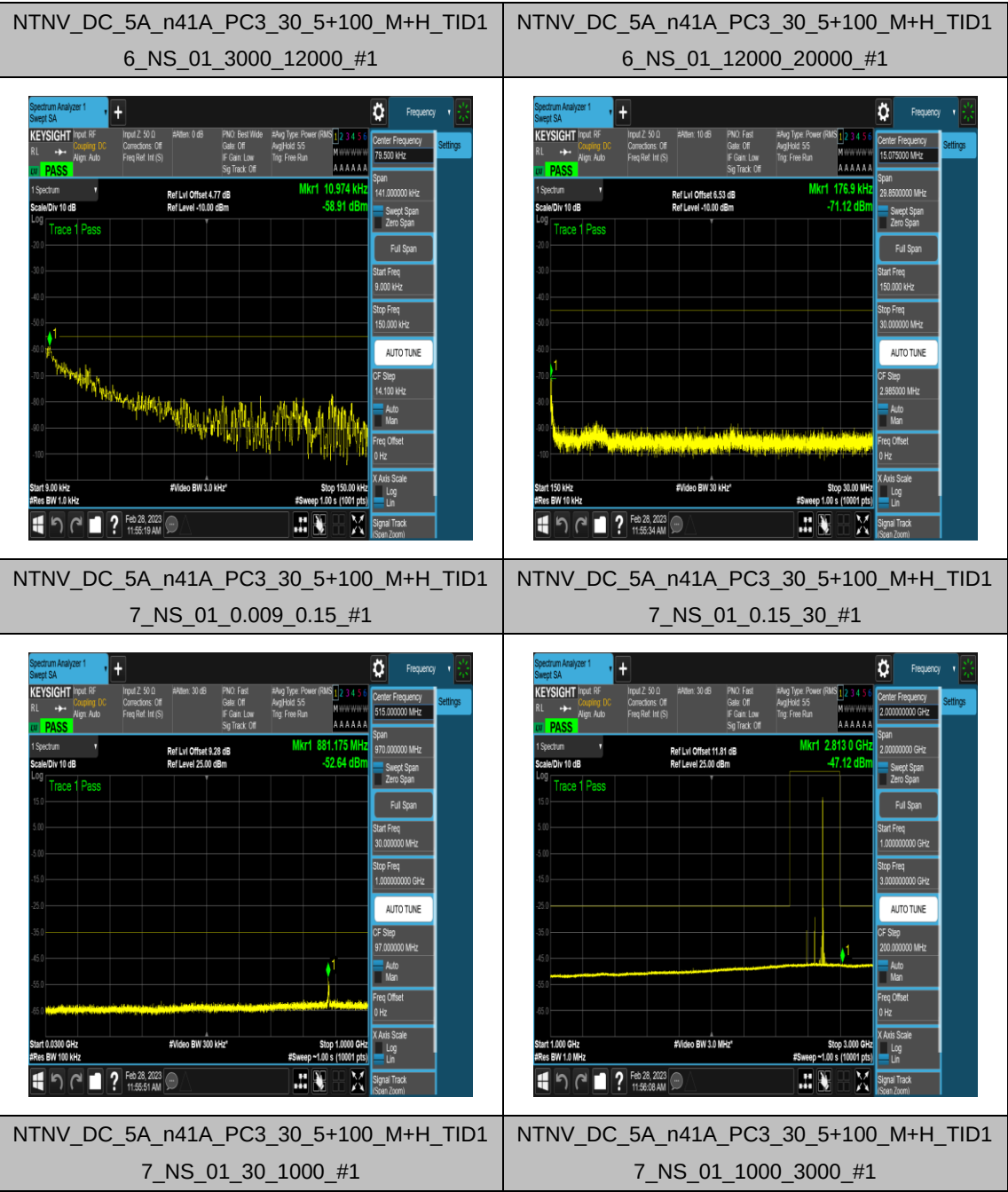


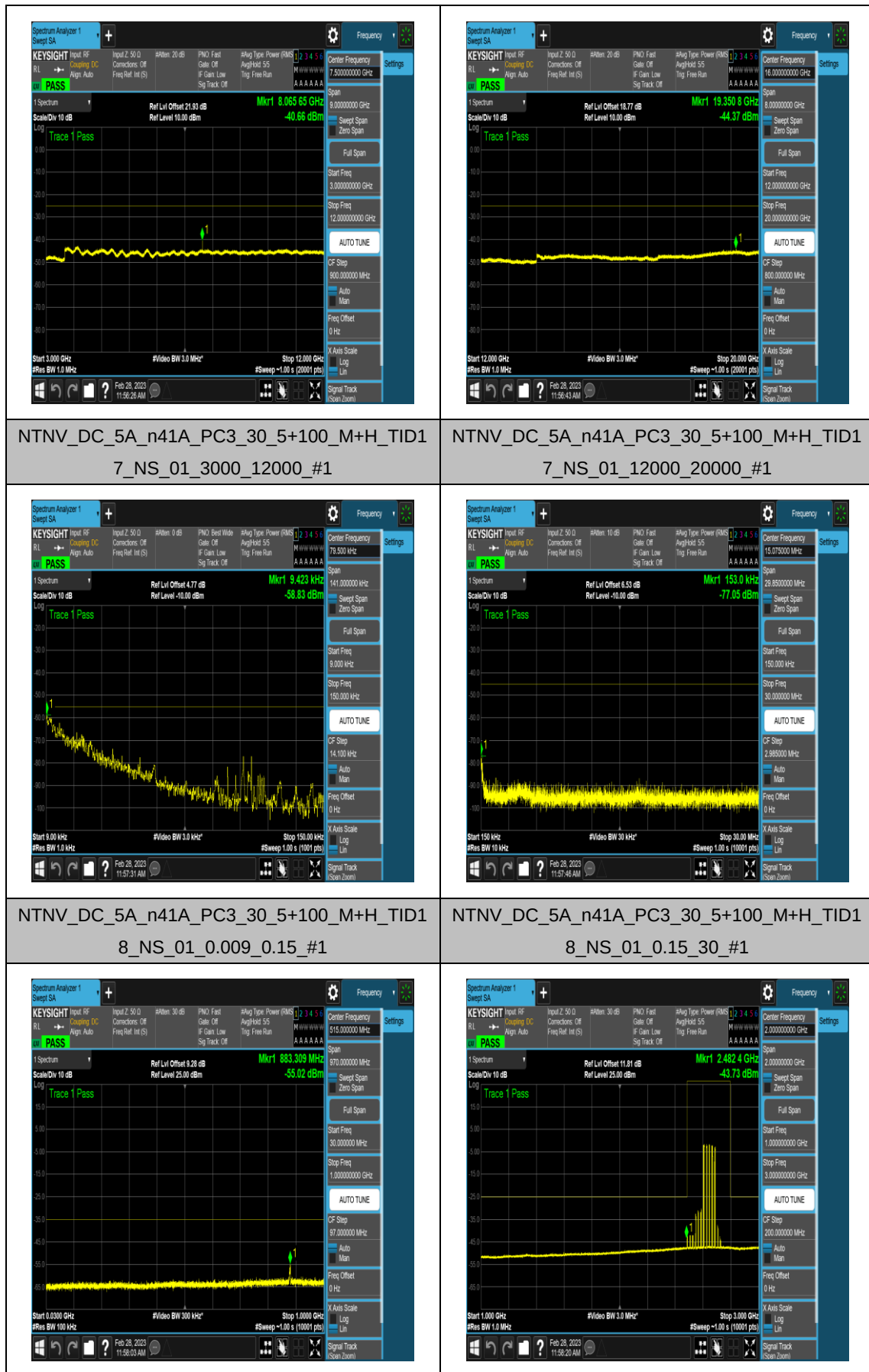














Appendix F: Frequency Stability for NSA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
DC_5A_n41A	30	5+20	DFT-QPSK	M+L	Outer_Full	VN	NT	-2.83	0.00	PASS
DC_5A_n41A	30	5+20	CP-QPSK	M+L	Outer_Full	VN	NT	-6.55	0.00	PASS
DC_5A_n41A	30	5+20	DFT-QPSK	M+M	Outer_Full	VN	NT	-8.60	0.00	PASS
DC_5A_n41A	30	5+20	CP-QPSK	M+M	Outer_Full	VN	NT	-7.66	0.00	PASS
DC_5A_n41A	30	5+20	DFT-QPSK	M+H	Outer_Full	VN	NT	-8.43	0.00	PASS
DC_5A_n41A	30	5+20	CP-QPSK	M+H	Outer_Full	VN	NT	-12.18	0.00	PASS
DC_5A_n41A	30	5+40	DFT-QPSK	M+L	Outer_Full	VN	NT	-5.70	0.00	PASS
DC_5A_n41A	30	5+40	CP-QPSK	M+L	Outer_Full	VN	NT	-13.14	-0.01	PASS
DC_5A_n41A	30	5+40	DFT-QPSK	M+M	Outer_Full	VN	NT	-11.94	0.00	PASS
DC_5A_n41A	30	5+40	CP-QPSK	M+M	Outer_Full	VN	NT	-11.33	0.00	PASS
DC_5A_n41A	30	5+40	DFT-QPSK	M+H	Outer_Full	VN	NT	-5.45	0.00	PASS
DC_5A_n41A	30	5+40	CP-QPSK	M+H	Outer_Full	VN	NT	-10.55	0.00	PASS
DC_5A_n41A	30	5+60	DFT-QPSK	M+L	Outer_Full	VN	NT	-8.78	0.00	PASS
DC_5A_n41A	30	5+60	CP-QPSK	M+L	Outer_Full	VN	NT	-15.14	-0.01	PASS
DC_5A_n41A	30	5+60	DFT-QPSK	M+M	Outer_Full	VN	NT	-11.49	0.00	PASS
DC_5A_n41A	30	5+60	CP-QPSK	M+M	Outer_Full	VN	NT	-8.00	0.00	PASS

DC_5A_n41A	30	5+60	DFT-QPSK	M+H	Outer_Full	VN	NT	-7.55	0.00	PASS
DC_5A_n41A	30	5+60	CP-QPSK	M+H	Outer_Full	VN	NT	-5.26	0.00	PASS
DC_5A_n41A	30	5+100	DFT-QPSK	M+L	Outer_Full	VN	NT	-10.62	0.00	PASS
DC_5A_n41A	30	5+100	CP-QPSK	M+L	Outer_Full	VN	NT	-9.94	0.00	PASS
DC_5A_n41A	30	5+100	DFT-QPSK	M+M	Outer_Full	VN	NT	-13.54	-0.01	PASS
DC_5A_n41A	30	5+100	CP-QPSK	M+M	Outer_Full	VN	NT	-11.59	0.00	PASS
DC_5A_n41A	30	5+100	DFT-QPSK	M+H	Outer_Full	VN	NT	2.97	0.00	PASS
DC_5A_n41A	30	5+100	CP-QPSK	M+H	Outer_Full	VN	NT	2.64	0.00	PASS

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation(ppm)	Verdict
DC_5A_n41A	30	5+20	DFT-QPSK	M+L	Outer_Full	NV	TN	-7.851728	-0.003133	PASS
DC_5A_n41A	30	5+20	CP-QPSK	M+L	Outer_Full	NV	TN	-4.601118	-0.001836	PASS
DC_5A_n41A	30	5+20	DFT-QPSK	M+M	Outer_Full	NV	TN	-10.863759	-0.004190	PASS
DC_5A_n41A	30	5+20	CP-QPSK	M+M	Outer_Full	NV	TN	-12.886709	-0.004970	PASS
DC_5A_n41A	30	5+20	DFT-QPSK	M+H	Outer_Full	NV	TN	-7.543207	-0.002815	PASS
DC_5A_n41A	30	5+20	CP-QPSK	M+H	Outer_Full	NV	TN	-4.088326	-0.001526	PASS
DC_5A_n41A	30	5+40	DFT-QPSK	M+L	Outer_Full	NV	TN	-0.509463	-0.000202	PASS
DC_5A_n41A	30	5+40	CP-QPSK	M+L	Outer_Full	NV	TN	-6.027925	-0.002396	PASS
DC_5A_n41A	30	5+40	DFT-QPSK	M+M	Outer_Full	NV	TN	-11.790386	-0.004547	PASS
DC_5A_n41A	30	5+40	CP-QPSK	M+M	Outer_Full	NV	TN	-7.362164	-0.002839	PASS

DC_5A_ n41A	30	5+40	DFT-QPSK	M+H	Outer_Full	NV	TN	-8.052854	-0.003016	PASS
DC_5A_ n41A	30	5+40	CP-QPSK	M+H	Outer_Full	NV	TN	-13.154449	-0.004927	PASS
DC_5A_ n41A	30	5+60	DFT-QPSK	M+L	Outer_Full	NV	TN	-3.223613	-0.001276	PASS
DC_5A_ n41A	30	5+60	CP-QPSK	M+L	Outer_Full	NV	TN	-20.775236	-0.008225	PASS
DC_5A_ n41A	30	5+60	DFT-QPSK	M+M	Outer_Full	NV	TN	-2.899074	-0.001118	PASS
DC_5A_ n41A	30	5+60	CP-QPSK	M+M	Outer_Full	NV	TN	-11.759973	-0.004535	PASS
DC_5A_ n41A	30	5+60	DFT-QPSK	M+H	Outer_Full	NV	TN	-5.004131	-0.001881	PASS
DC_5A_ n41A	30	5+60	CP-QPSK	M+H	Outer_Full	NV	TN	-5.910308	-0.002222	PASS
DC_5A_ n41A	30	5+100	DFT-QPSK	M+L	Outer_Full	NV	TN	-6.302220	-0.002475	PASS
DC_5A_ n41A	30	5+100	CP-QPSK	M+L	Outer_Full	NV	TN	-13.249403	-0.005204	PASS
DC_5A_ n41A	30	5+100	DFT-QPSK	M+M	Outer_Full	NV	TN	-4.017635	-0.001549	PASS
DC_5A_ n41A	30	5+100	CP-QPSK	M+M	Outer_Full	NV	TN	-7.009167	-0.002703	PASS
DC_5A_ n41A	30	5+100	DFT-QPSK	M+H	Outer_Full	NV	TN	-9.306219	-0.003525	PASS
DC_5A_ n41A	30	5+100	CP-QPSK	M+H	Outer_Full	NV	TN	-2.618359	-0.000992	PASS

Appendix F: Modulation characteristics for NSA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
DC_5A_n41A	30	5+20	DFT-QPSK	M+L	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+20	CP-QPSK	M+L	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+20	DFT-QPSK	M+M	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+20	CP-QPSK	M+M	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+20	DFT-QPSK	M+H	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+20	CP-QPSK	M+H	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+40	DFT-QPSK	M+L	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+40	CP-QPSK	M+L	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+40	DFT-QPSK	M+M	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+40	CP-QPSK	M+M	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+40	DFT-QPSK	M+H	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+40	CP-QPSK	M+H	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+60	DFT-QPSK	M+L	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+60	CP-QPSK	M+L	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+60	DFT-QPSK	M+M	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+60	CP-QPSK	M+M	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+60	DFT-QPSK	M+H	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+60	CP-QPSK	M+H	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+100	DFT-QPSK	M+L	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+100	CP-QPSK	M+L	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+100	DFT-QPSK	M+M	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+100	CP-QPSK	M+M	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+100	DFT-QPSK	M+H	Outer_Full	see graph	PASS
DC_5A_n41A	30	5+100	CP-QPSK	M+H	Outer_Full	see graph	PASS

Test Graphs

