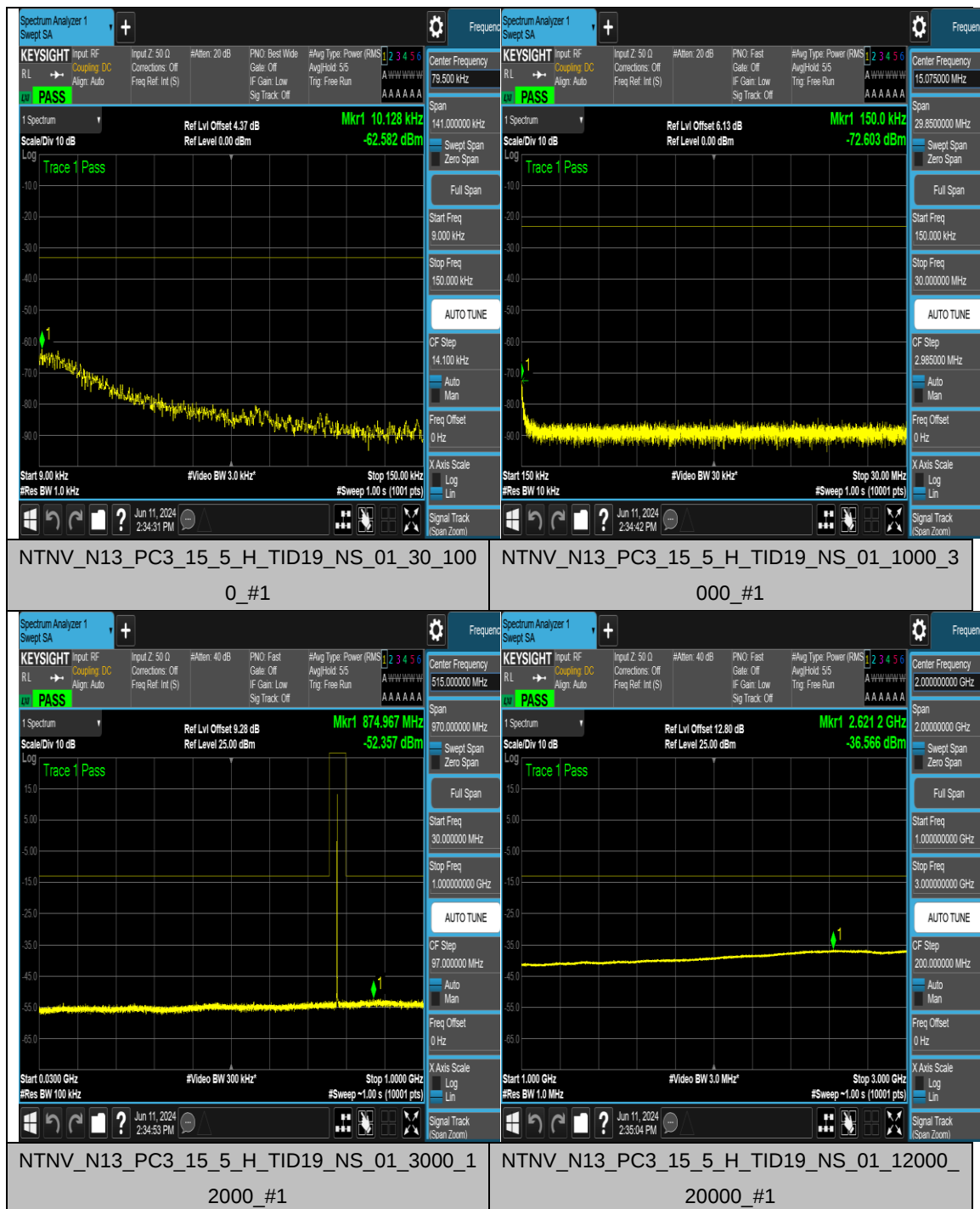
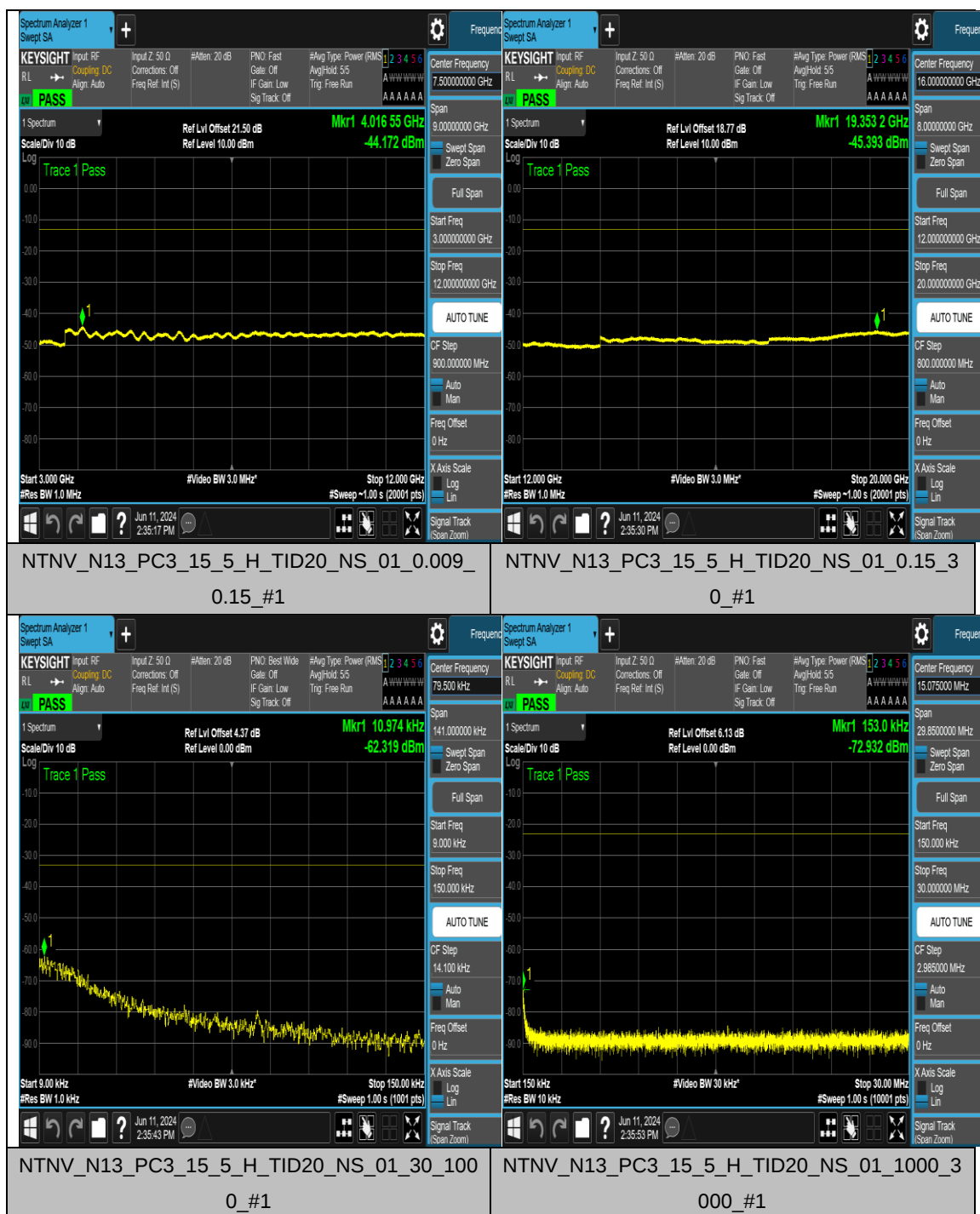
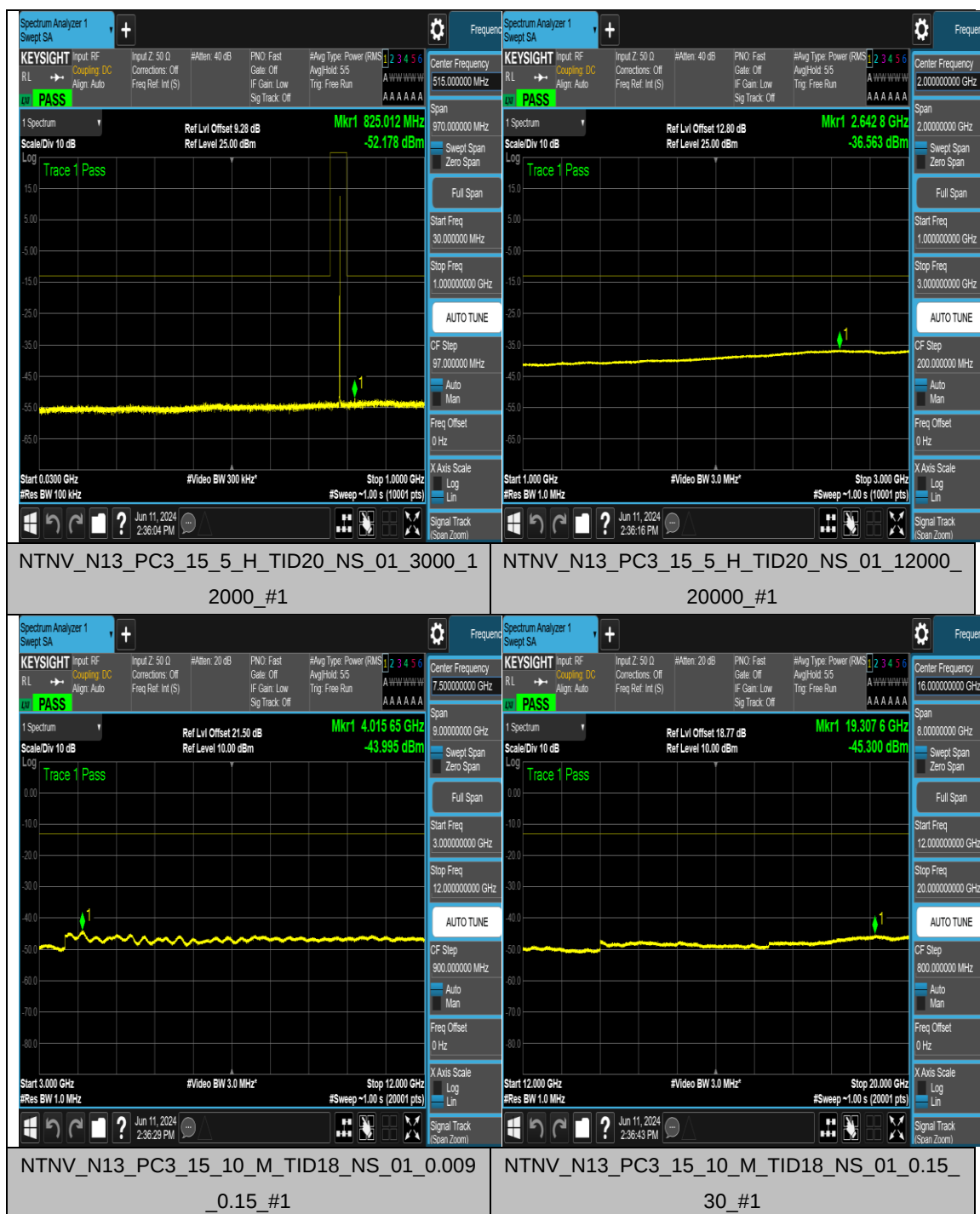
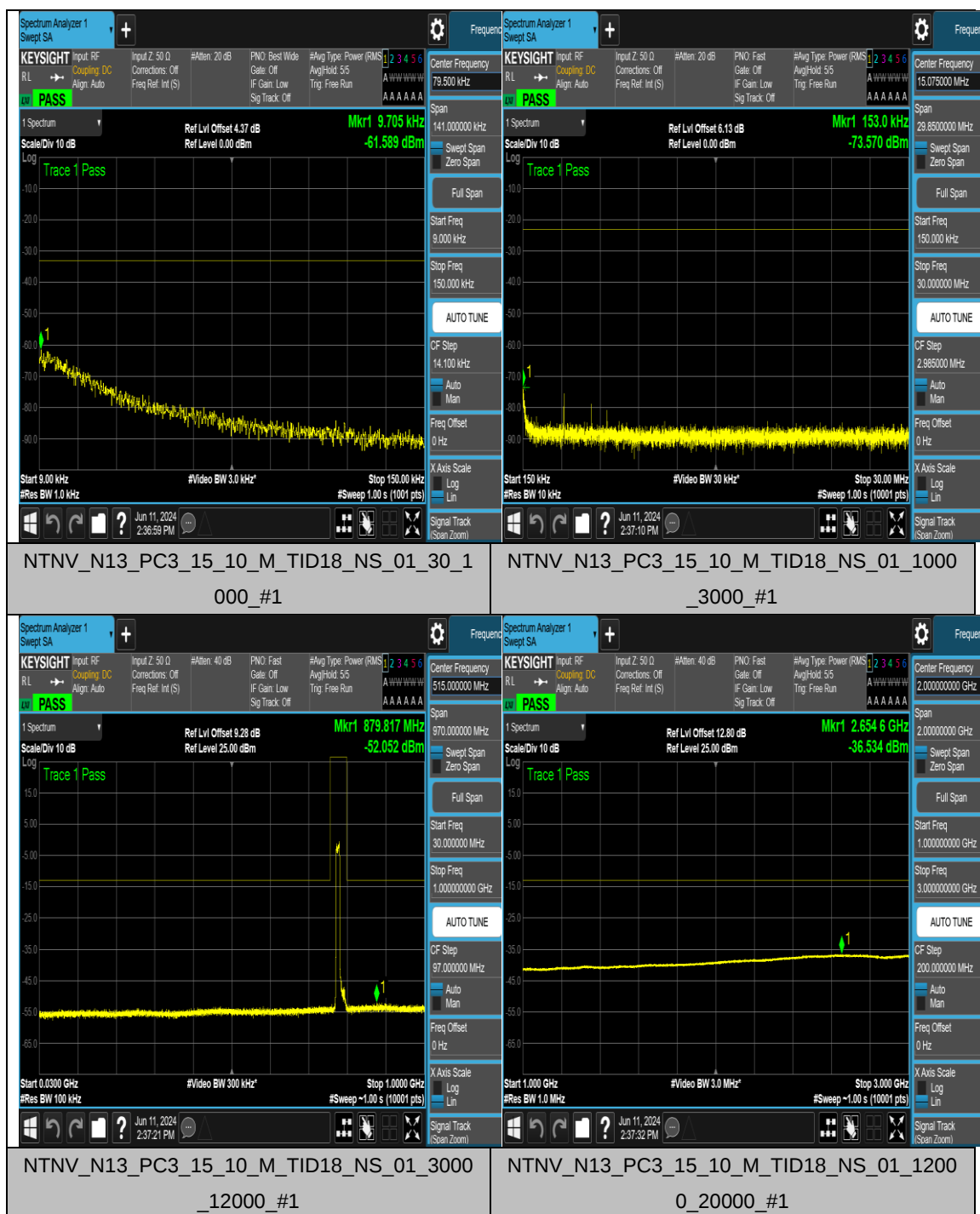
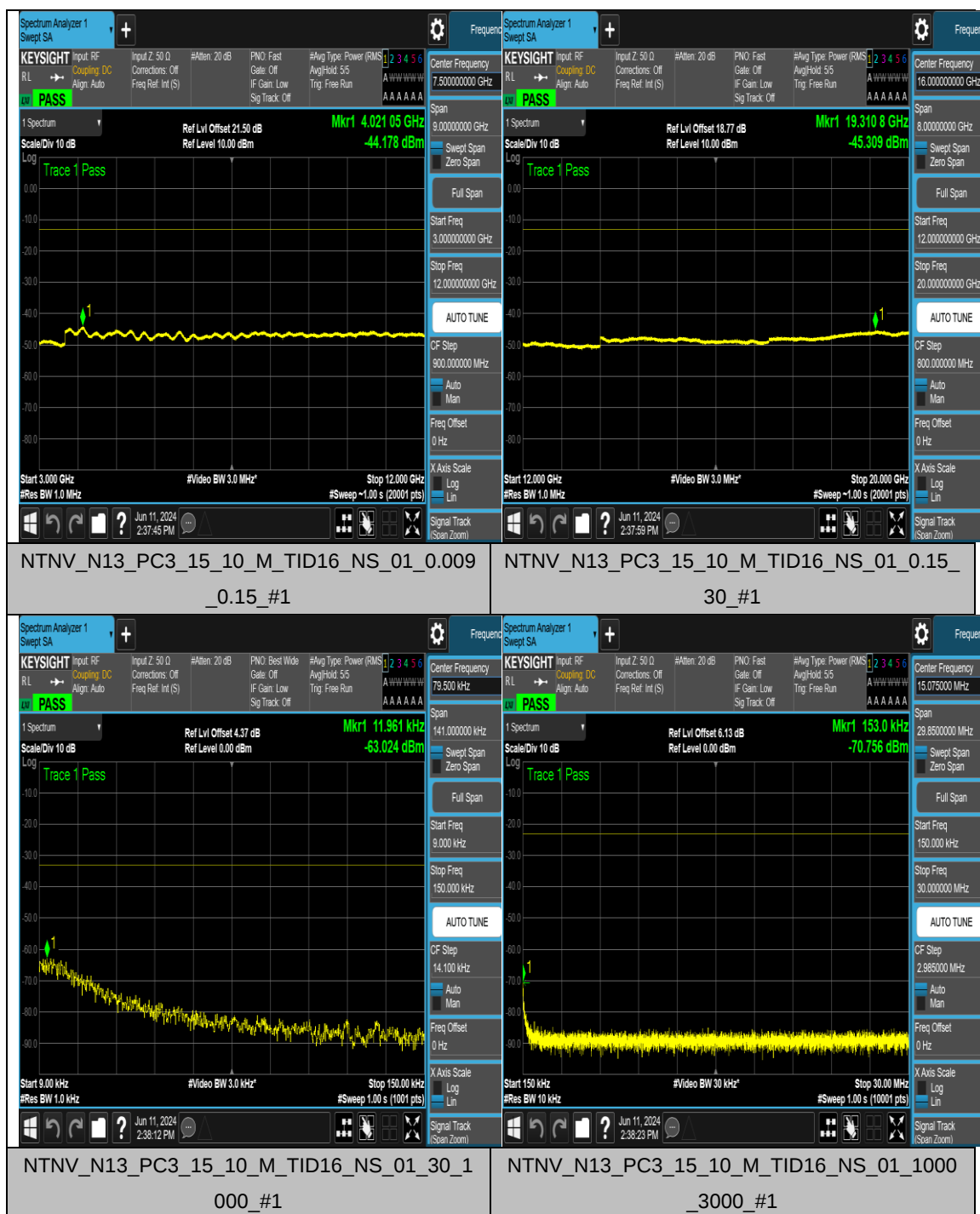




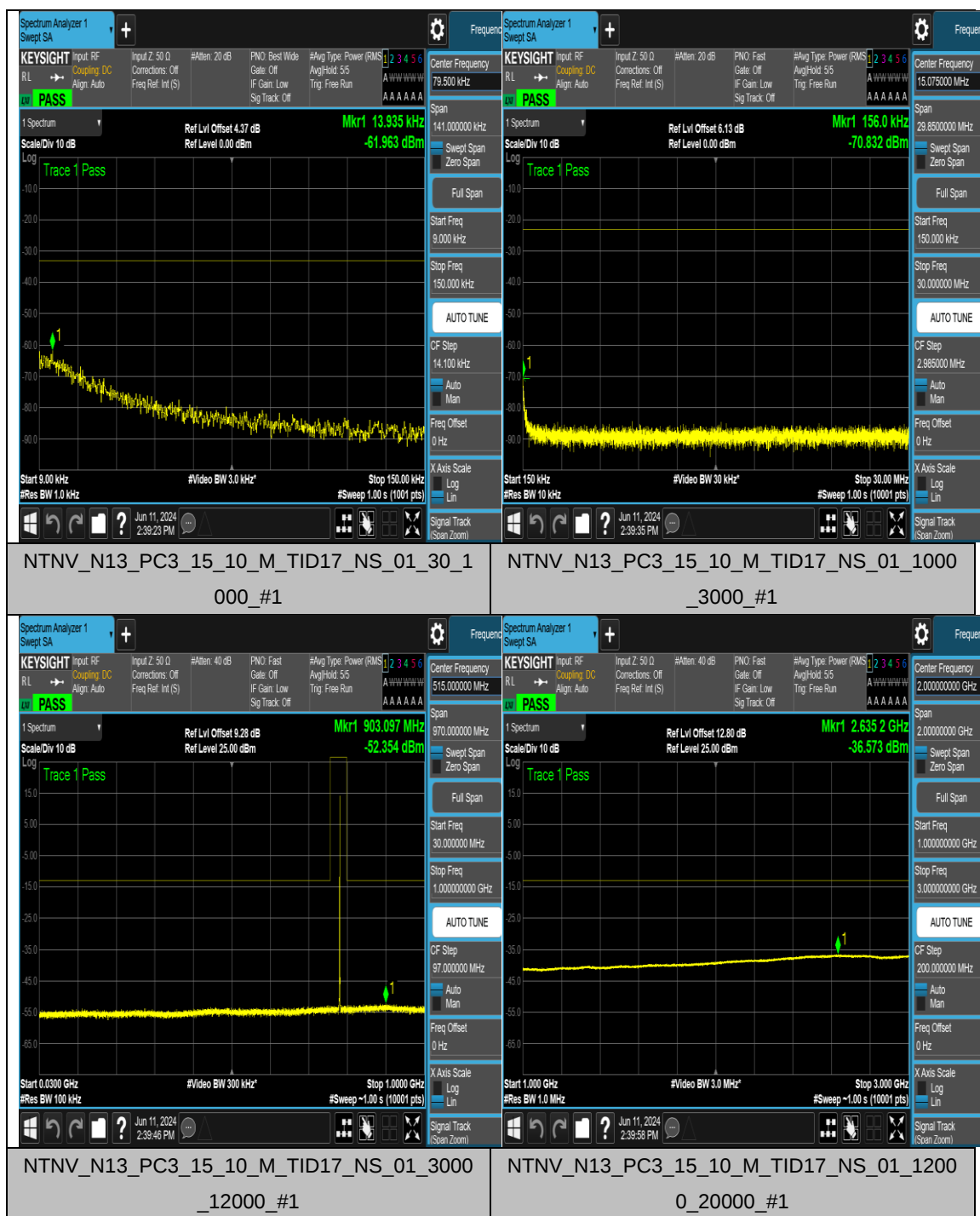




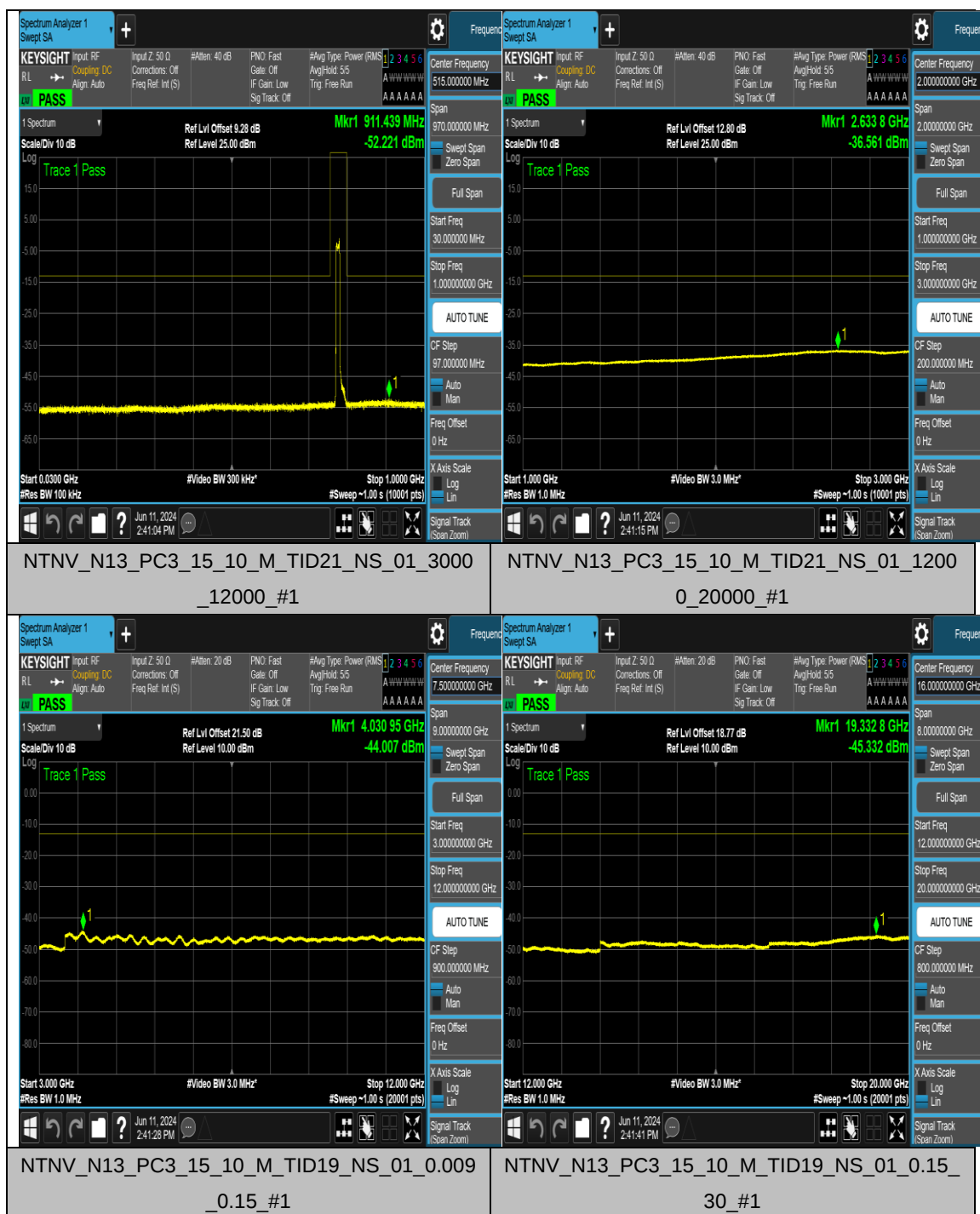


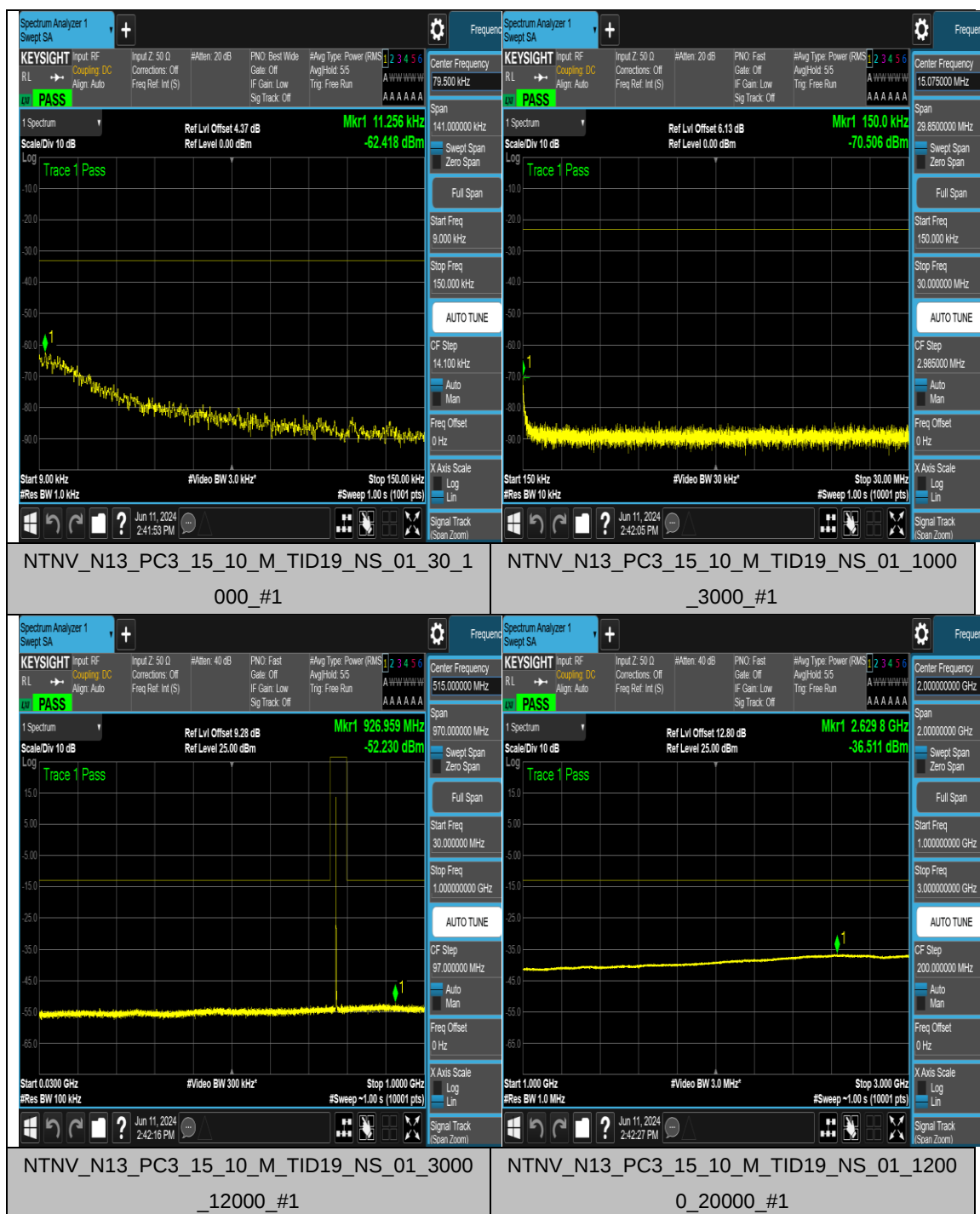


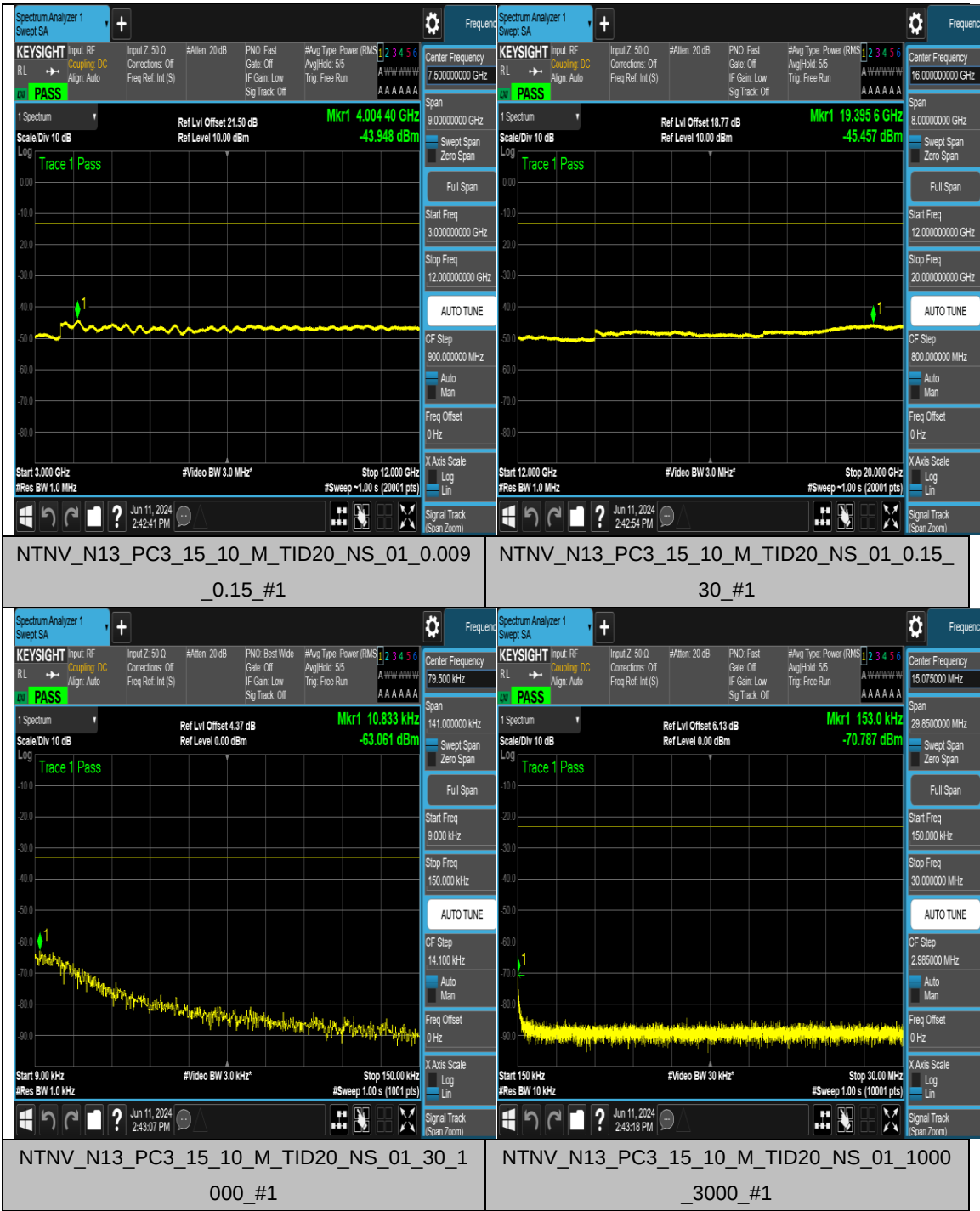














Appendix F: Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N13	15	5	DFT-QPSK	L	Outer_Full	VL	NT	1.05	0.00	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	VN	NT	2.28	0.00	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	VH	NT	1.65	0.00	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	VL	NT	2.65	0.00	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	VN	NT	0.89	0.00	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	VH	NT	0.34	0.00	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	VL	NT	2.60	0.00	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	VN	NT	2.31	0.00	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	VH	NT	-0.18	0.00	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	VL	NT	1.40	0.00	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	VN	NT	0.40	0.00	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	VH	NT	-0.37	0.00	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	VL	NT	1.72	0.00	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	VN	NT	0.72	0.00	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	VH	NT	1.82	0.00	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	VL	NT	1.24	0.00	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	VN	NT	0.71	0.00	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	VH	NT	0.61	0.00	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	VL	NT	-0.04	0.00	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	VN	NT	0.87	0.00	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	VH	NT	1.67	0.00	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	VL	NT	0.18	0.00	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	VN	NT	2.02	0.00	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	VH	NT	1.29	0.00	PASS

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N13	15	5	DFT-QPSK	L	Outer_Full	NV	-30	0.750000	0.000962	PASS

N13	15	5	DFT-QPSK	L	Outer_Full	NV	-20	0.540000	0.000693	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	NV	-10	-0.380000	-0.000487	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	NV	0	1.480000	0.001899	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	NV	10	1.010000	0.001296	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	NV	20	0.700000	0.000898	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	NV	30	0.200000	0.000257	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	NV	40	0.520000	0.000667	PASS
N13	15	5	DFT-QPSK	L	Outer_Full	NV	50	1.400000	0.001796	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	NV	-30	-0.650000	-0.000834	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	NV	-20	-0.290000	-0.000372	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	NV	-10	0.810000	0.001039	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	NV	0	0.160000	0.000205	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	NV	10	-0.020000	-0.000026	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	NV	20	-0.050000	-0.000064	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	NV	30	0.170000	0.000218	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	NV	40	0.310000	0.000398	PASS
N13	15	5	DFT-16QAM	L	Outer_Full	NV	50	0.020000	0.000026	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	NV	-30	2.180000	0.002788	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	NV	-20	1.730000	0.002212	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	NV	-10	0.660000	0.000844	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	NV	0	0.140000	0.000179	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	NV	10	1.560000	0.001995	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	NV	20	0.590000	0.000754	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	NV	30	-0.050000	-0.000064	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	NV	40	1.540000	0.001969	PASS
N13	15	5	DFT-QPSK	M	Outer_Full	NV	50	0.690000	0.000882	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	NV	-30	1.210000	0.001547	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	NV	-20	0.580000	0.000742	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	NV	-10	2.230000	0.002852	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	NV	0	1.620000	0.002072	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	NV	10	1.200000	0.001535	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	NV	20	0.880000	0.001125	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	NV	30	1.240000	0.001586	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	NV	40	1.330000	0.001701	PASS
N13	15	5	DFT-16QAM	M	Outer_Full	NV	50	1.140000	0.001458	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	NV	-30	1.170000	0.001491	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	NV	-20	0.480000	0.000612	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	NV	-10	0.600000	0.000765	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	NV	0	1.100000	0.001402	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	NV	10	0.680000	0.000867	PASS

N13	15	5	DFT-QPSK	H	Outer_Full	NV	20	0.820000	0.001045	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	NV	30	1.270000	0.001619	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	NV	40	0.250000	0.000319	PASS
N13	15	5	DFT-QPSK	H	Outer_Full	NV	50	2.290000	0.002919	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	NV	-30	0.350000	0.000446	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	NV	-20	0.530000	0.000676	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	NV	-10	0.550000	0.000701	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	NV	0	0.640000	0.000816	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	NV	10	0.880000	0.001122	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	NV	20	1.130000	0.001440	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	NV	30	1.160000	0.001479	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	NV	40	1.430000	0.001823	PASS
N13	15	5	DFT-16QAM	H	Outer_Full	NV	50	1.160000	0.001479	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	NV	-30	1.390000	0.001777	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	NV	-20	1.060000	0.001355	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	NV	-10	0.680000	0.000870	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	NV	0	0.530000	0.000678	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	NV	10	0.060000	0.000077	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	NV	20	1.590000	0.002033	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	NV	30	0.880000	0.001125	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	NV	40	2.440000	0.003120	PASS
N13	15	10	DFT-QPSK	M	Outer_Full	NV	50	1.730000	0.002212	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	NV	-30	0.720000	0.000921	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	NV	-20	-0.050000	-0.000064	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	NV	-10	1.010000	0.001292	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	NV	0	0.440000	0.000563	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	NV	10	2.660000	0.003402	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	NV	20	0.480000	0.000614	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	NV	30	2.330000	0.002980	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	NV	40	1.900000	0.002430	PASS
N13	15	10	DFT-16QAM	M	Outer_Full	NV	50	1.480000	0.001893	PASS