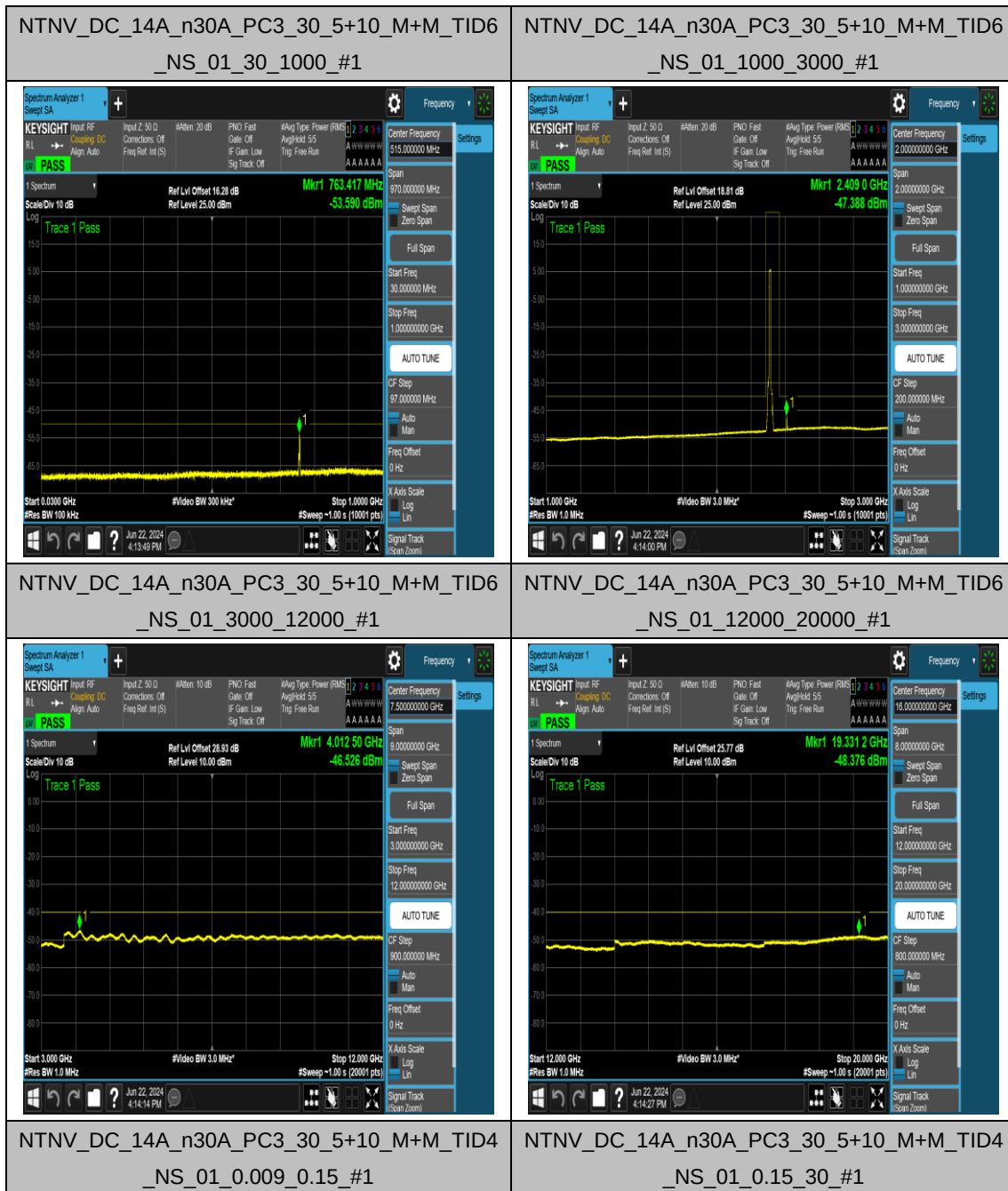
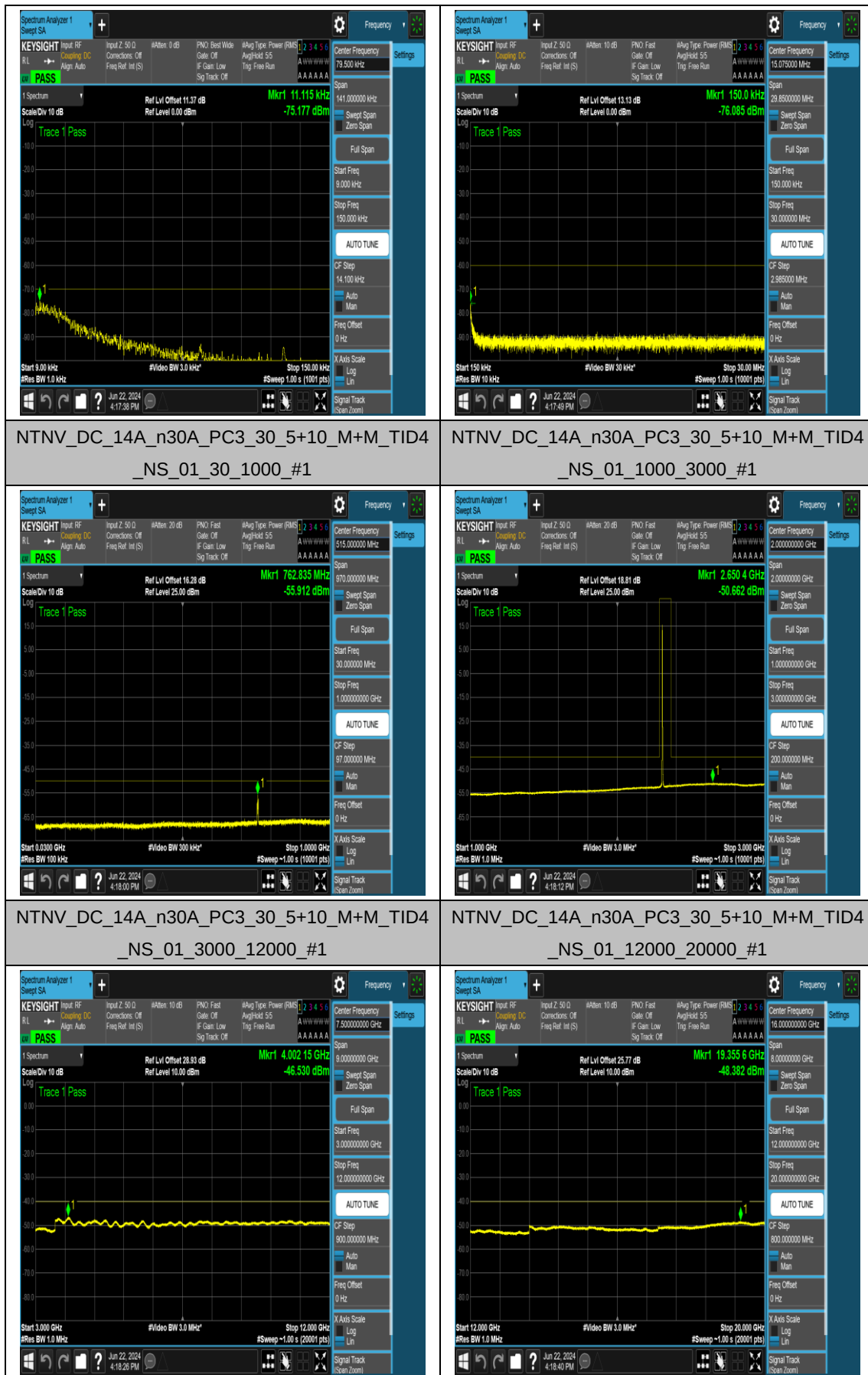
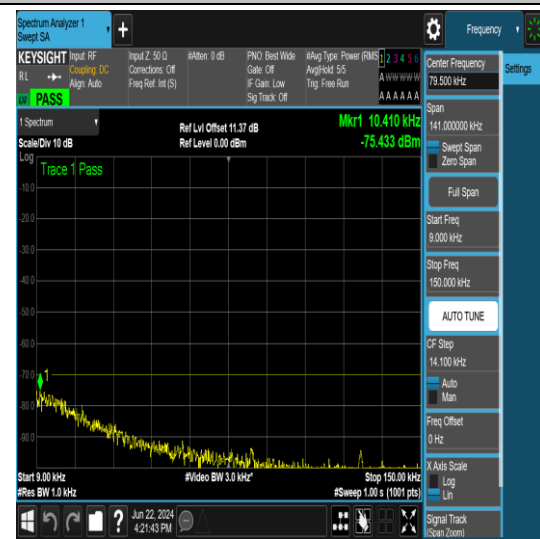
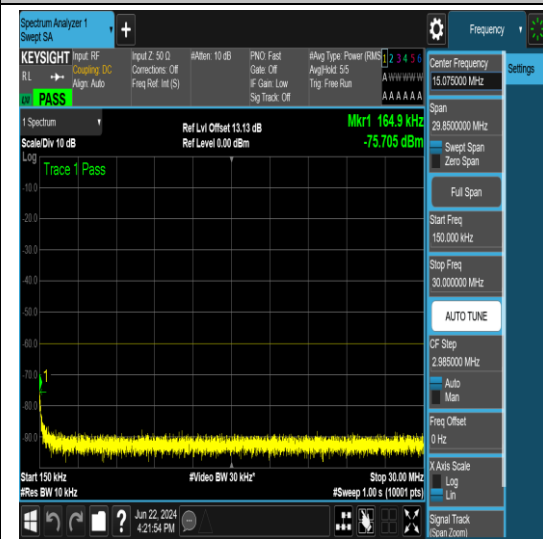
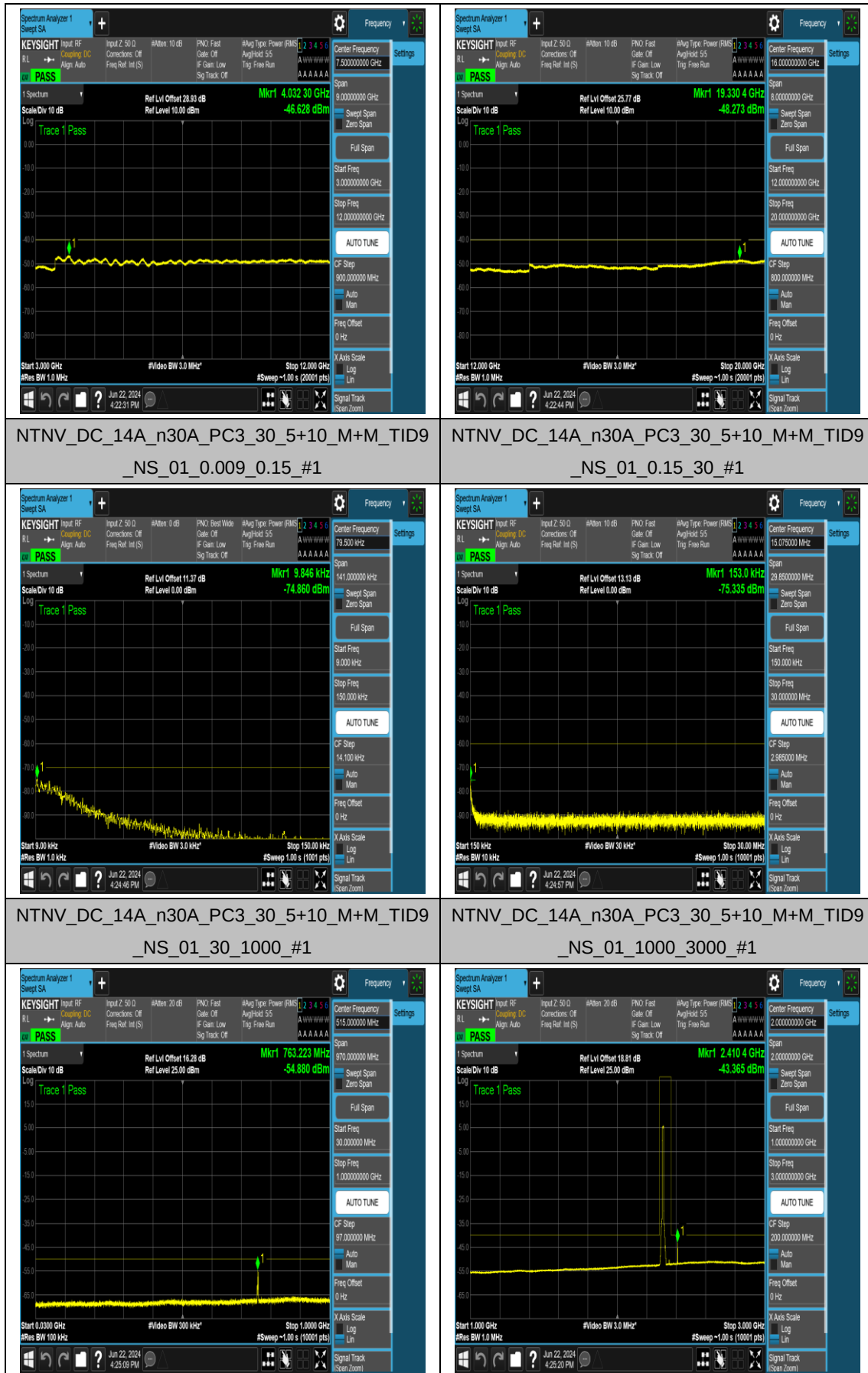


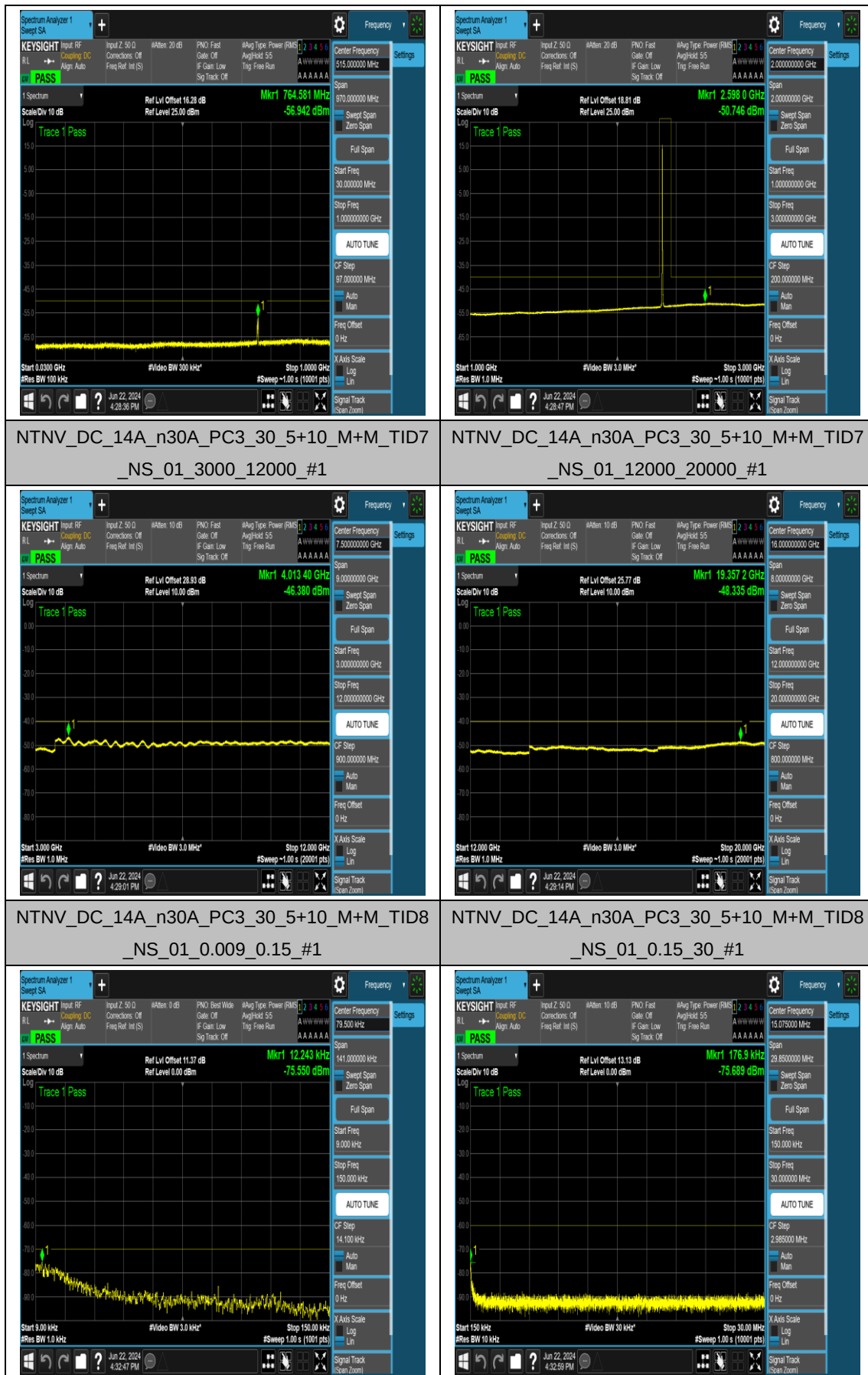




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_NS_01_30_1000_#1NTNV_DC_14A_n30A_PC3_30_5+10_M+M_TID5
_NS_01_1000_3000_#1NTNV_DC_14A_n30A_PC3_30_5+10_M+M_TID5
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Appendix F: Frequency Stability for NSA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
DC_14A_n30A	30	5+5	DFT-QPSK	M+L	Outer_Full	VL	NT	12.000000	0.005200	PASS
DC_14A_n30A	30	5+5	DFT-QPSK	M+L	Outer_Full	VN	NT	16.000000	0.006934	PASS
DC_14A_n30A	30	5+5	DFT-QPSK	M+L	Outer_Full	VH	NT	10.000000	0.004334	PASS
DC_14A_n30A	30	5+5	DFT-16QAM	M+L	Outer_Full	VL	NT	5.000000	0.002167	PASS
DC_14A_n30A	30	5+5	DFT-16QAM	M+L	Outer_Full	VN	NT	3.000000	0.001300	PASS
DC_14A_n30A	30	5+5	DFT-16QAM	M+L	Outer_Full	VH	NT	9.000000	0.003900	PASS
DC_14A_n30A	30	5+5	DFT-QPSK	M+M	Outer_Full	VL	NT	5.000000	0.002165	PASS
DC_14A_n30A	30	5+5	DFT-QPSK	M+M	Outer_Full	VN	NT	10.000000	0.004329	PASS
DC_14A_n30A	30	5+5	DFT-QPSK	M+M	Outer_Full	VH	NT	16.000000	0.006926	PASS
DC_14A_n30A	30	5+5	DFT-16QAM	M+M	Outer_Full	VL	NT	1.000000	0.000433	PASS
DC_14A_n30A	30	5+5	DFT-16QAM	M+M	Outer_Full	VN	NT	2.000000	0.000866	PASS
DC_14A_n30A	30	5+5	DFT-16QAM	M+M	Outer_Full	VH	NT	13.000000	0.005628	PASS
DC_14A_n30A	30	5+5	DFT-QPSK	M+H	Outer_Full	VL	NT	7.000000	0.003027	PASS
DC_14A_n30A	30	5+5	DFT-QPSK	M+H	Outer_Full	VN	NT	11.000000	0.004757	PASS
DC_14A_n30A	30	5+5	DFT-QPSK	M+H	Outer_Full	VH	NT	2.000000	0.000865	PASS
DC_14A_n30A	30	5+5	DFT-16QAM	M+H	Outer_Full	VL	NT	16.000000	0.006919	PASS
DC_14A_n30A	30	5+5	DFT-16QAM	M+H	Outer_Full	VN	NT	15.000000	0.006486	PASS

DC_14A_n30A	30	5+5	DFT-16QAM	M+H	Outer_Full	VH	NT	7.000000	0.003027	PASS
DC_14A_n30A	30	5+10	DFT-QPSK	M+M	Outer_Full	VL	NT	11.000000	0.004762	PASS
DC_14A_n30A	30	5+10	DFT-QPSK	M+M	Outer_Full	VN	NT	16.000000	0.006926	PASS
DC_14A_n30A	30	5+10	DFT-QPSK	M+M	Outer_Full	VH	NT	15.000000	0.006494	PASS
DC_14A_n30A	30	5+10	DFT-16QAM	M+M	Outer_Full	VL	NT	6.000000	0.002597	PASS
DC_14A_n30A	30	5+10	DFT-16QAM	M+M	Outer_Full	VN	NT	16.000000	0.006926	PASS
DC_14A_n30A	30	5+10	DFT-16QAM	M+M	Outer_Full	VH	NT	18.000000	0.007792	PASS

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
DC_14A_n30A	30	5+5	DFT-QPSK	M+L	Outer_Full	NV	-30	6.000000	0.002600	PASS
DC_14A_n30A	30	5+5	DFT-QPSK	M+L	Outer_Full	NV	-20	7.000000	0.003034	PASS
DC_14A_n30A	30	5+5	DFT-QPSK	M+L	Outer_Full	NV	-10	6.000000	0.002600	PASS
DC_14A_n30A	30	5+5	DFT-QPSK	M+L	Outer_Full	NV	0	16.000000	0.006934	PASS
DC_14A_n30A	30	5+5	DFT-QPSK	M+L	Outer_Full	NV	10	1.000000	0.000433	PASS
DC_14A_n30A	30	5+5	DFT-QPSK	M+L	Outer_Full	NV	20	11.000000	0.004767	PASS
DC_14A_n30A	30	5+5	DFT-QPSK	M+L	Outer_Full	NV	30	17.000000	0.007367	PASS
DC_14A_n30A	30	5+5	DFT-QPSK	M+L	Outer_Full	NV	40	11.000000	0.004767	PASS
DC_14A_n30A	30	5+5	DFT-QPSK	M+L	Outer_Full	NV	50	18.000000	0.007801	PASS
DC_14A_n30A	30	5+5	DFT-16QAM	M+L	Outer_Full	NV	-30	1.000000	0.000433	PASS
DC_14A_n30A	30	5+5	DFT-16QAM	M+L	Outer_Full	NV	-20	8.000000	0.003467	PASS
DC_14A	30	5+5	DFT-16QAM	M+L	Outer_Full	NV	-10	18.000000	0.007801	PASS

_n30A										
DC_14A _n30A	30	5+5	DFT-16QAM	M+L	Outer_Full	NV	0	18.000000	0.007801	PASS
DC_14A _n30A	30	5+5	DFT-16QAM	M+L	Outer_Full	NV	10	5.000000	0.002167	PASS
DC_14A _n30A	30	5+5	DFT-16QAM	M+L	Outer_Full	NV	20	18.000000	0.007801	PASS
DC_14A _n30A	30	5+5	DFT-16QAM	M+L	Outer_Full	NV	30	9.000000	0.003900	PASS
DC_14A _n30A	30	5+5	DFT-16QAM	M+L	Outer_Full	NV	40	9.000000	0.003900	PASS
DC_14A _n30A	30	5+5	DFT-16QAM	M+L	Outer_Full	NV	50	19.000000	0.008234	PASS
DC_14A _n30A	30	5+5	DFT-QPSK	M+M	Outer_Full	NV	-30	2.000000	0.000866	PASS
DC_14A _n30A	30	5+5	DFT-QPSK	M+M	Outer_Full	NV	-20	9.000000	0.003896	PASS
DC_14A _n30A	30	5+5	DFT-QPSK	M+M	Outer_Full	NV	-10	19.000000	0.008225	PASS
DC_14A _n30A	30	5+5	DFT-QPSK	M+M	Outer_Full	NV	0	3.000000	0.001299	PASS
DC_14A _n30A	30	5+5	DFT-QPSK	M+M	Outer_Full	NV	10	12.000000	0.005195	PASS
DC_14A _n30A	30	5+5	DFT-QPSK	M+M	Outer_Full	NV	20	12.000000	0.005195	PASS
DC_14A _n30A	30	5+5	DFT-QPSK	M+M	Outer_Full	NV	30	3.000000	0.001299	PASS
DC_14A _n30A	30	5+5	DFT-QPSK	M+M	Outer_Full	NV	40	3.000000	0.001299	PASS
DC_14A _n30A	30	5+5	DFT-QPSK	M+M	Outer_Full	NV	50	13.000000	0.005628	PASS
DC_14A _n30A	30	5+5	DFT-16QAM	M+M	Outer_Full	NV	-30	15.000000	0.006494	PASS
DC_14A _n30A	30	5+5	DFT-16QAM	M+M	Outer_Full	NV	-20	10.000000	0.004329	PASS
DC_14A _n30A	30	5+5	DFT-16QAM	M+M	Outer_Full	NV	-10	10.000000	0.004329	PASS
DC_14A _n30A	30	5+5	DFT-16QAM	M+M	Outer_Full	NV	0	1.000000	0.000433	PASS
DC_14A _n30A	30	5+5	DFT-16QAM	M+M	Outer_Full	NV	10	1.000000	0.000433	PASS
DC_14A	30	5+5	DFT-16QAM	M+M	Outer_Full	NV	20	17.000000	0.007359	PASS

_n30A										
DC_14A _n30A	30	5+5	DFT-16QAM	M+M	Outer_Full	NV	30	4.000000	0.001732	PASS
DC_14A _n30A	30	5+5	DFT-16QAM	M+M	Outer_Full	NV	40	11.000000	0.004762	PASS
DC_14A _n30A	30	5+5	DFT-16QAM	M+M	Outer_Full	NV	50	14.000000	0.006061	PASS
DC_14A _n30A	30	5+5	DFT-QPSK	M+H	Outer_Full	NV	-30	17.000000	0.007351	PASS
DC_14A _n30A	30	5+5	DFT-QPSK	M+H	Outer_Full	NV	-20	15.000000	0.006486	PASS
DC_14A _n30A	30	5+5	DFT-QPSK	M+H	Outer_Full	NV	-10	18.000000	0.007784	PASS
DC_14A _n30A	30	5+5	DFT-QPSK	M+H	Outer_Full	NV	0	5.000000	0.002162	PASS
DC_14A _n30A	30	5+5	DFT-QPSK	M+H	Outer_Full	NV	10	12.000000	0.005189	PASS
DC_14A _n30A	30	5+5	DFT-QPSK	M+H	Outer_Full	NV	20	3.000000	0.001297	PASS
DC_14A _n30A	30	5+5	DFT-QPSK	M+H	Outer_Full	NV	30	10.000000	0.004324	PASS
DC_14A _n30A	30	5+5	DFT-QPSK	M+H	Outer_Full	NV	40	1.000000	0.000432	PASS
DC_14A _n30A	30	5+5	DFT-QPSK	M+H	Outer_Full	NV	50	6.000000	0.002595	PASS
DC_14A _n30A	30	5+5	DFT-16QAM	M+H	Outer_Full	NV	-30	2.000000	0.000865	PASS
DC_14A _n30A	30	5+5	DFT-16QAM	M+H	Outer_Full	NV	-20	19.000000	0.008216	PASS
DC_14A _n30A	30	5+5	DFT-16QAM	M+H	Outer_Full	NV	-10	10.000000	0.004324	PASS
DC_14A _n30A	30	5+5	DFT-16QAM	M+H	Outer_Full	NV	0	17.000000	0.007351	PASS
DC_14A _n30A	30	5+5	DFT-16QAM	M+H	Outer_Full	NV	10	5.000000	0.002162	PASS
DC_14A _n30A	30	5+5	DFT-16QAM	M+H	Outer_Full	NV	20	14.000000	0.006054	PASS
DC_14A _n30A	30	5+5	DFT-16QAM	M+H	Outer_Full	NV	30	1.000000	0.000432	PASS
DC_14A _n30A	30	5+5	DFT-16QAM	M+H	Outer_Full	NV	40	3.000000	0.001297	PASS
DC_14A	30	5+5	DFT-16QAM	M+H	Outer_Full	NV	50	3.000000	0.001297	PASS

_n30A										
DC_14A_n30A	30	5+10	DFT-QPSK	M+M	Outer_Full	NV	-30	5.000000	0.002165	PASS
DC_14A_n30A	30	5+10	DFT-QPSK	M+M	Outer_Full	NV	-20	3.000000	0.001299	PASS
DC_14A_n30A	30	5+10	DFT-QPSK	M+M	Outer_Full	NV	-10	3.000000	0.001299	PASS
DC_14A_n30A	30	5+10	DFT-QPSK	M+M	Outer_Full	NV	0	9.000000	0.003896	PASS
DC_14A_n30A	30	5+10	DFT-QPSK	M+M	Outer_Full	NV	10	2.000000	0.000866	PASS
DC_14A_n30A	30	5+10	DFT-QPSK	M+M	Outer_Full	NV	20	9.000000	0.003896	PASS
DC_14A_n30A	30	5+10	DFT-QPSK	M+M	Outer_Full	NV	30	17.000000	0.007359	PASS
DC_14A_n30A	30	5+10	DFT-QPSK	M+M	Outer_Full	NV	40	12.000000	0.005195	PASS
DC_14A_n30A	30	5+10	DFT-QPSK	M+M	Outer_Full	NV	50	3.000000	0.001299	PASS
DC_14A_n30A	30	5+10	DFT-16QAM	M+M	Outer_Full	NV	-30	5.000000	0.002165	PASS
DC_14A_n30A	30	5+10	DFT-16QAM	M+M	Outer_Full	NV	-20	12.000000	0.005195	PASS
DC_14A_n30A	30	5+10	DFT-16QAM	M+M	Outer_Full	NV	-10	17.000000	0.007359	PASS
DC_14A_n30A	30	5+10	DFT-16QAM	M+M	Outer_Full	NV	0	5.000000	0.002165	PASS
DC_14A_n30A	30	5+10	DFT-16QAM	M+M	Outer_Full	NV	10	12.000000	0.005195	PASS
DC_14A_n30A	30	5+10	DFT-16QAM	M+M	Outer_Full	NV	20	18.000000	0.007792	PASS
DC_14A_n30A	30	5+10	DFT-16QAM	M+M	Outer_Full	NV	30	11.000000	0.004762	PASS
DC_14A_n30A	30	5+10	DFT-16QAM	M+M	Outer_Full	NV	40	10.000000	0.004329	PASS
DC_14A_n30A	30	5+10	DFT-16QAM	M+M	Outer_Full	NV	50	1.000000	0.000433	PASS