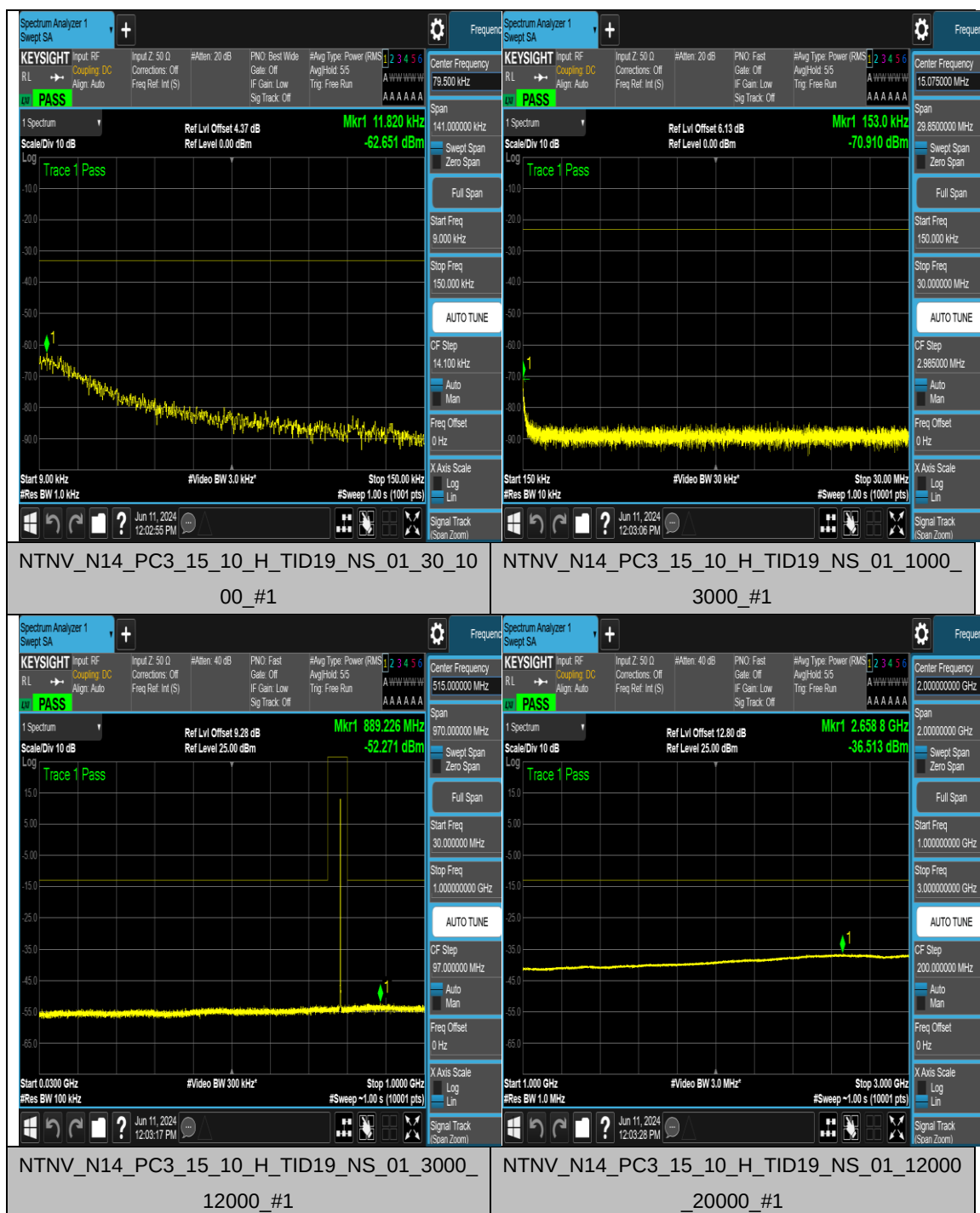
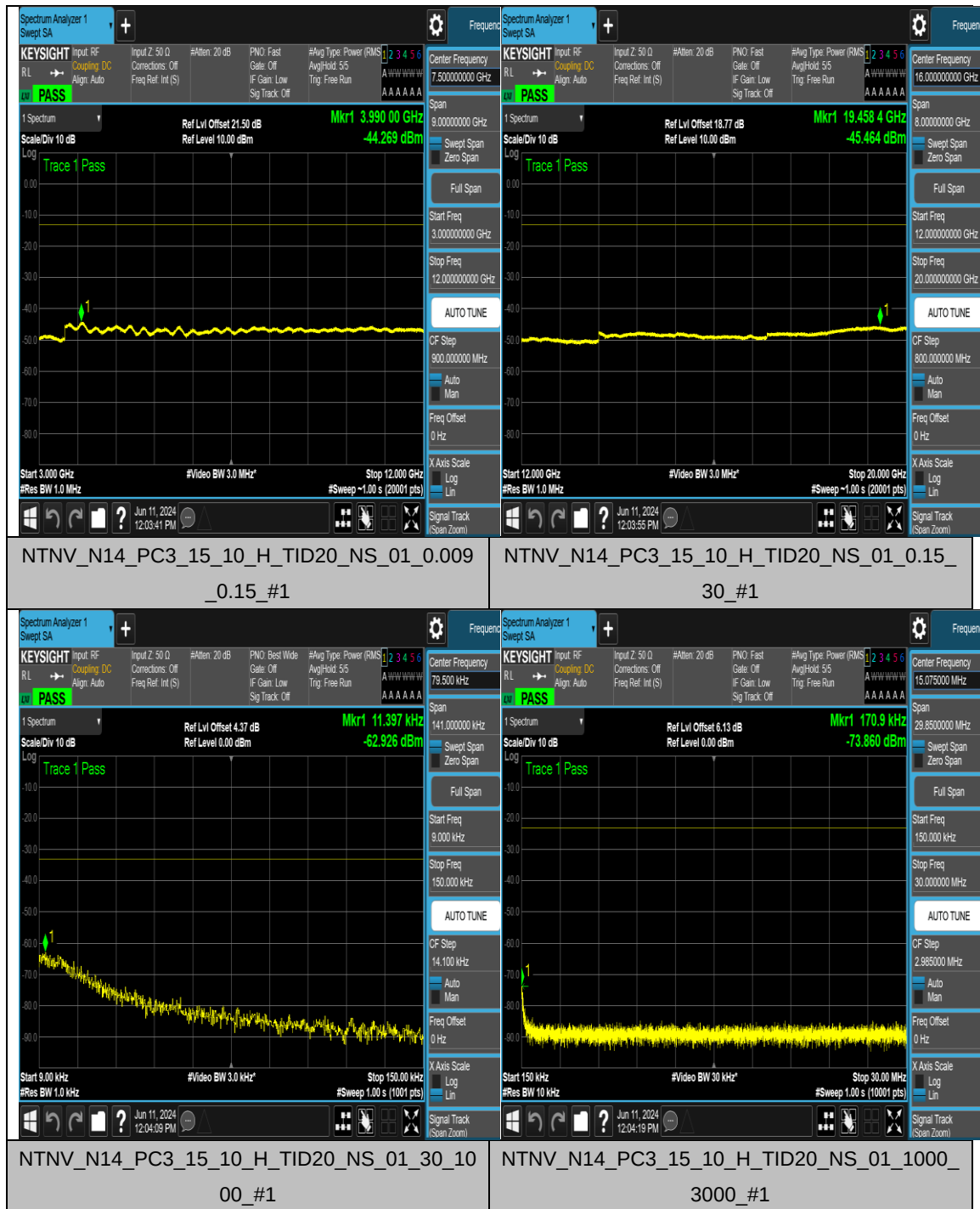










Appendix F: Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N14	15	5	DFT-QPSK	L	Outer_Full	VL	NT	-0.94	0.00	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	VN	NT	-0.98	0.00	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	VH	NT	-0.60	0.00	PASS
N14	15	5	DFT-16QAM	L	Outer_Full	VL	NT	-0.24	0.00	PASS
N14	15	5	DFT-16QAM	L	Outer_Full	VN	NT	-0.11	0.00	PASS
N14	15	5	DFT-16QAM	L	Outer_Full	VH	NT	-0.41	0.00	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	VL	NT	-0.10	0.00	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	VN	NT	0.09	0.00	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	VH	NT	-0.12	0.00	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	VL	NT	-0.77	0.00	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	VN	NT	-0.29	0.00	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	VH	NT	-0.96	0.00	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	VL	NT	-1.42	0.00	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	VN	NT	-0.38	0.00	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	VH	NT	-0.33	0.00	PASS
N14	15	5	DFT-16QAM	H	Outer_Full	VL	NT	-0.72	0.00	PASS
N14	15	5	DFT-16QAM	H	Outer_Full	VN	NT	-0.12	0.00	PASS
N14	15	5	DFT-16QAM	H	Outer_Full	VH	NT	0.01	0.00	PASS
N14	15	10	DFT-QPSK	L	Outer_Full	VL	NT	0.77	0.00	PASS
N14	15	10	DFT-QPSK	L	Outer_Full	VN	NT	0.58	0.00	PASS
N14	15	10	DFT-QPSK	L	Outer_Full	VH	NT	0.61	0.00	PASS
N14	15	10	DFT-16QAM	L	Outer_Full	VL	NT	0.42	0.00	PASS
N14	15	10	DFT-16QAM	L	Outer_Full	VN	NT	0.57	0.00	PASS
N14	15	10	DFT-16QAM	L	Outer_Full	VH	NT	0.44	0.00	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	VL	NT	-0.16	0.00	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	VN	NT	-0.09	0.00	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	VH	NT	0.32	0.00	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	VL	NT	-0.54	0.00	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	VN	NT	0.31	0.00	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	VH	NT	0.37	0.00	PASS
N14	15	10	DFT-QPSK	H	Outer_Full	VL	NT	0.42	0.00	PASS
N14	15	10	DFT-QPSK	H	Outer_Full	VN	NT	0.47	0.00	PASS

N14	15	10	DFT-QPSK	H	Outer_Full	VH	NT	-0.06	0.00	PASS
N14	15	10	DFT-16QAM	H	Outer_Full	VL	NT	0.02	0.00	PASS
N14	15	10	DFT-16QAM	H	Outer_Full	VN	NT	-0.07	0.00	PASS
N14	15	10	DFT-16QAM	H	Outer_Full	VH	NT	-0.21	0.00	PASS

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N14	15	5	DFT-QPSK	L	Outer_Full	NV	-30	-0.640000	-0.000810	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	NV	-20	-0.780000	-0.000987	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	NV	-10	-0.920000	-0.001164	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	NV	0	-0.460000	-0.000582	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	NV	10	-0.930000	-0.001176	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	NV	20	-0.190000	-0.000240	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	NV	30	0.130000	0.000164	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	NV	40	0.070000	0.000089	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	NV	50	-0.470000	-0.000595	PASS
N14	15	5	DFT-16QAM	L	Outer_Full	NV	-30	-0.830000	-0.001050	PASS
N14	15	5	DFT-16QAM	L	Outer_Full	NV	-20	-0.100000	-0.000127	PASS
N14	15	5	DFT-16QAM	L	Outer_Full	NV	-10	0.090000	0.000114	PASS
N14	15	5	DFT-16QAM	L	Outer_Full	NV	0	-0.610000	-0.000772	PASS
N14	15	5	DFT-16QAM	L	Outer_Full	NV	10	-0.630000	-0.000797	PASS
N14	15	5	DFT-16QAM	L	Outer_Full	NV	20	-0.690000	-0.000873	PASS
N14	15	5	DFT-16QAM	L	Outer_Full	NV	30	-0.260000	-0.000329	PASS
N14	15	5	DFT-16QAM	L	Outer_Full	NV	40	-0.350000	-0.000443	PASS
N14	15	5	DFT-16QAM	L	Outer_Full	NV	50	-0.420000	-0.000531	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	NV	-30	-0.470000	-0.000593	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	NV	-20	-0.230000	-0.000290	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	NV	-10	-0.680000	-0.000858	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	NV	0	-0.490000	-0.000618	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	NV	10	-0.470000	-0.000593	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	NV	20	0.160000	0.000202	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	NV	30	-0.840000	-0.001059	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	NV	40	0.300000	0.000378	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	NV	50	-0.740000	-0.000933	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	NV	-30	-0.030000	-0.000038	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	NV	-20	-0.900000	-0.001135	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	NV	-10	-1.130000	-0.001425	PASS

N14	15	5	DFT-16QAM	M	Outer_Full	NV	0	-0.470000	-0.000593	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	NV	10	-0.970000	-0.001223	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	NV	20	-1.300000	-0.001639	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	NV	30	-0.580000	-0.000731	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	NV	40	-0.350000	-0.000441	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	NV	50	-0.160000	-0.000202	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	NV	-30	0.010000	0.000013	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	NV	-20	-0.850000	-0.001069	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	NV	-10	-0.230000	-0.000289	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	NV	0	0.060000	0.000075	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	NV	10	-0.960000	-0.001207	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	NV	20	-0.510000	-0.000641	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	NV	30	-1.230000	-0.001546	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	NV	40	0.110000	0.000138	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	NV	50	-0.590000	-0.000742	PASS
N14	15	5	DFT-16QAM	H	Outer_Full	NV	-30	-0.950000	-0.001194	PASS
N14	15	5	DFT-16QAM	H	Outer_Full	NV	-20	-1.140000	-0.001433	PASS
N14	15	5	DFT-16QAM	H	Outer_Full	NV	-10	-0.870000	-0.001094	PASS
N14	15	5	DFT-16QAM	H	Outer_Full	NV	0	-0.930000	-0.001169	PASS
N14	15	5	DFT-16QAM	H	Outer_Full	NV	10	-0.070000	-0.000088	PASS
N14	15	5	DFT-16QAM	H	Outer_Full	NV	20	0.060000	0.000075	PASS
N14	15	5	DFT-16QAM	H	Outer_Full	NV	30	-0.130000	-0.000163	PASS
N14	15	5	DFT-16QAM	H	Outer_Full	NV	40	0.380000	0.000478	PASS
N14	15	5	DFT-16QAM	H	Outer_Full	NV	50	-0.330000	-0.000415	PASS
N14	15	10	DFT-QPSK	L	Outer_Full	NV	-30	0.150000	0.000189	PASS
N14	15	10	DFT-QPSK	L	Outer_Full	NV	-20	0.880000	0.001110	PASS
N14	15	10	DFT-QPSK	L	Outer_Full	NV	-10	0.820000	0.001034	PASS
N14	15	10	DFT-QPSK	L	Outer_Full	NV	0	0.850000	0.001072	PASS
N14	15	10	DFT-QPSK	L	Outer_Full	NV	10	0.650000	0.000820	PASS
N14	15	10	DFT-QPSK	L	Outer_Full	NV	20	0.360000	0.000454	PASS
N14	15	10	DFT-QPSK	L	Outer_Full	NV	30	0.430000	0.000542	PASS
N14	15	10	DFT-QPSK	L	Outer_Full	NV	40	0.280000	0.000353	PASS
N14	15	10	DFT-QPSK	L	Outer_Full	NV	50	0.560000	0.000706	PASS
N14	15	10	DFT-16QAM	L	Outer_Full	NV	-30	0.380000	0.000479	PASS
N14	15	10	DFT-16QAM	L	Outer_Full	NV	-20	0.250000	0.000315	PASS
N14	15	10	DFT-16QAM	L	Outer_Full	NV	-10	-0.060000	-0.000076	PASS
N14	15	10	DFT-16QAM	L	Outer_Full	NV	0	1.010000	0.001274	PASS
N14	15	10	DFT-16QAM	L	Outer_Full	NV	10	0.680000	0.000858	PASS
N14	15	10	DFT-16QAM	L	Outer_Full	NV	20	0.100000	0.000126	PASS
N14	15	10	DFT-16QAM	L	Outer_Full	NV	30	-0.320000	-0.000404	PASS

N14	15	10	DFT-16QAM	L	Outer_Full	NV	40	0.590000	0.000744	PASS
N14	15	10	DFT-16QAM	L	Outer_Full	NV	50	0.450000	0.000567	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	NV	-30	-0.030000	-0.000038	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	NV	-20	0.740000	0.000933	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	NV	-10	0.590000	0.000744	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	NV	0	0.540000	0.000681	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	NV	10	0.490000	0.000618	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	NV	20	-0.170000	-0.000214	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	NV	30	0.660000	0.000832	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	NV	40	0.530000	0.000668	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	NV	50	0.260000	0.000328	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	NV	-30	0.240000	0.000303	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	NV	-20	0.710000	0.000895	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	NV	-10	0.390000	0.000492	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	NV	0	0.150000	0.000189	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	NV	10	0.140000	0.000177	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	NV	20	0.330000	0.000416	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	NV	30	0.520000	0.000656	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	NV	40	0.240000	0.000303	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	NV	50	0.230000	0.000290	PASS
N14	15	10	DFT-QPSK	H	Outer_Full	NV	-30	-0.090000	-0.000113	PASS
N14	15	10	DFT-QPSK	H	Outer_Full	NV	-20	0.770000	0.000971	PASS
N14	15	10	DFT-QPSK	H	Outer_Full	NV	-10	0.000000	0.000000	PASS
N14	15	10	DFT-QPSK	H	Outer_Full	NV	0	0.340000	0.000429	PASS
N14	15	10	DFT-QPSK	H	Outer_Full	NV	10	0.630000	0.000794	PASS
N14	15	10	DFT-QPSK	H	Outer_Full	NV	20	0.240000	0.000303	PASS
N14	15	10	DFT-QPSK	H	Outer_Full	NV	30	0.210000	0.000265	PASS
N14	15	10	DFT-QPSK	H	Outer_Full	NV	40	0.720000	0.000908	PASS
N14	15	10	DFT-QPSK	H	Outer_Full	NV	50	0.530000	0.000668	PASS
N14	15	10	DFT-16QAM	H	Outer_Full	NV	-30	0.110000	0.000139	PASS
N14	15	10	DFT-16QAM	H	Outer_Full	NV	-20	-0.020000	-0.000025	PASS
N14	15	10	DFT-16QAM	H	Outer_Full	NV	-10	0.240000	0.000303	PASS
N14	15	10	DFT-16QAM	H	Outer_Full	NV	0	-0.220000	-0.000277	PASS
N14	15	10	DFT-16QAM	H	Outer_Full	NV	10	0.220000	0.000277	PASS
N14	15	10	DFT-16QAM	H	Outer_Full	NV	20	-0.240000	-0.000303	PASS
N14	15	10	DFT-16QAM	H	Outer_Full	NV	30	-0.050000	-0.000063	PASS
N14	15	10	DFT-16QAM	H	Outer_Full	NV	40	1.130000	0.001425	PASS
N14	15	10	DFT-16QAM	H	Outer_Full	NV	50	0.470000	0.000593	PASS