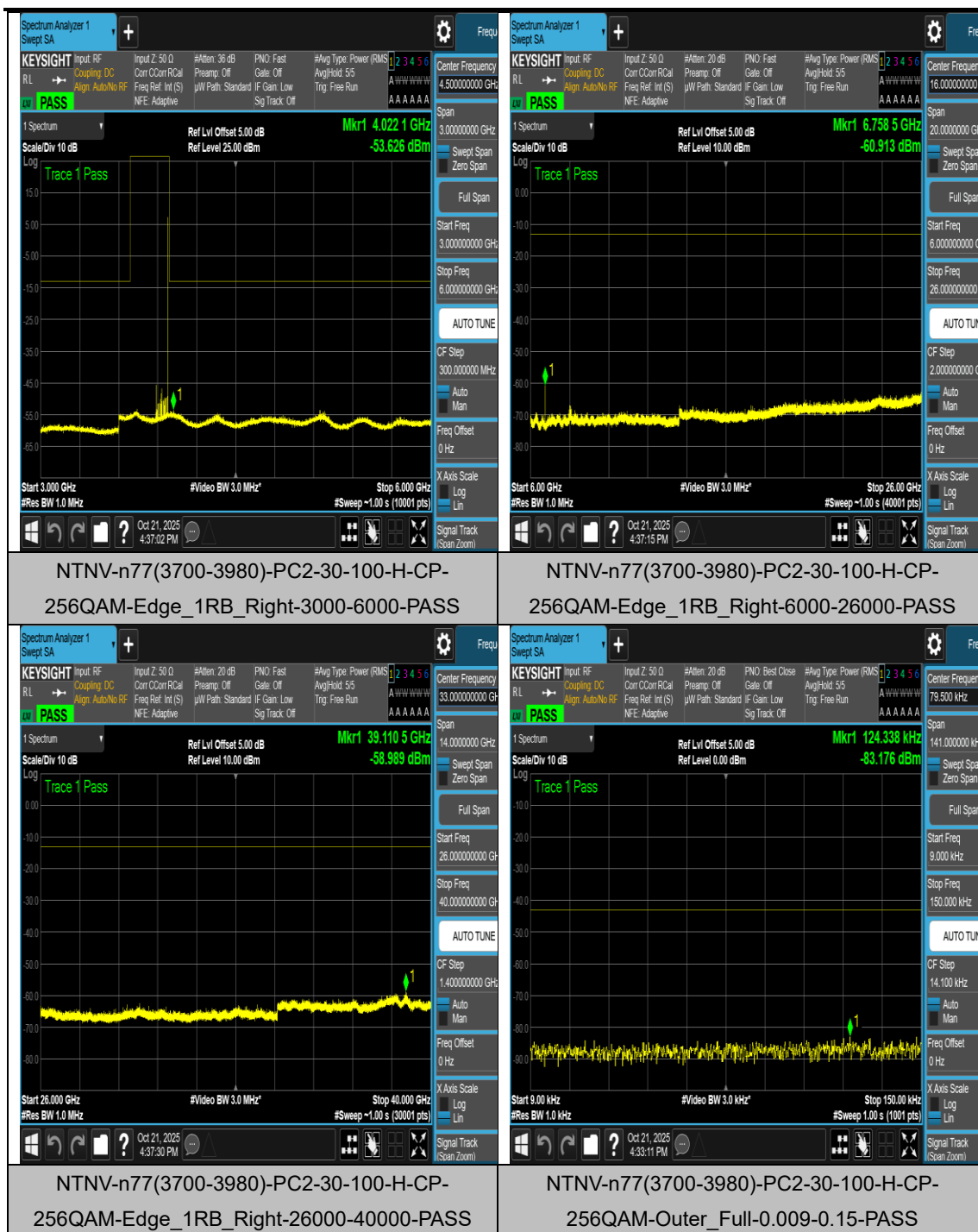
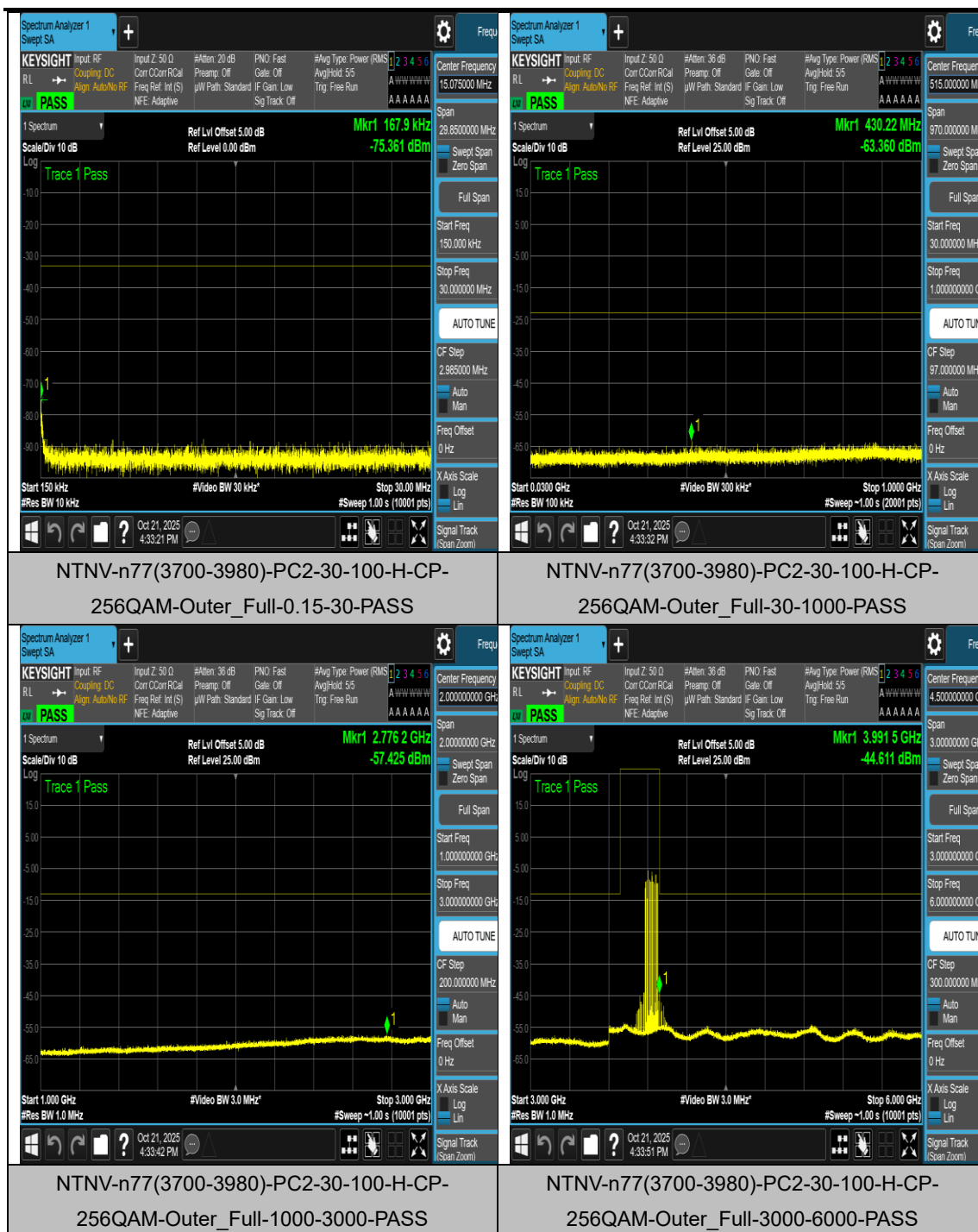
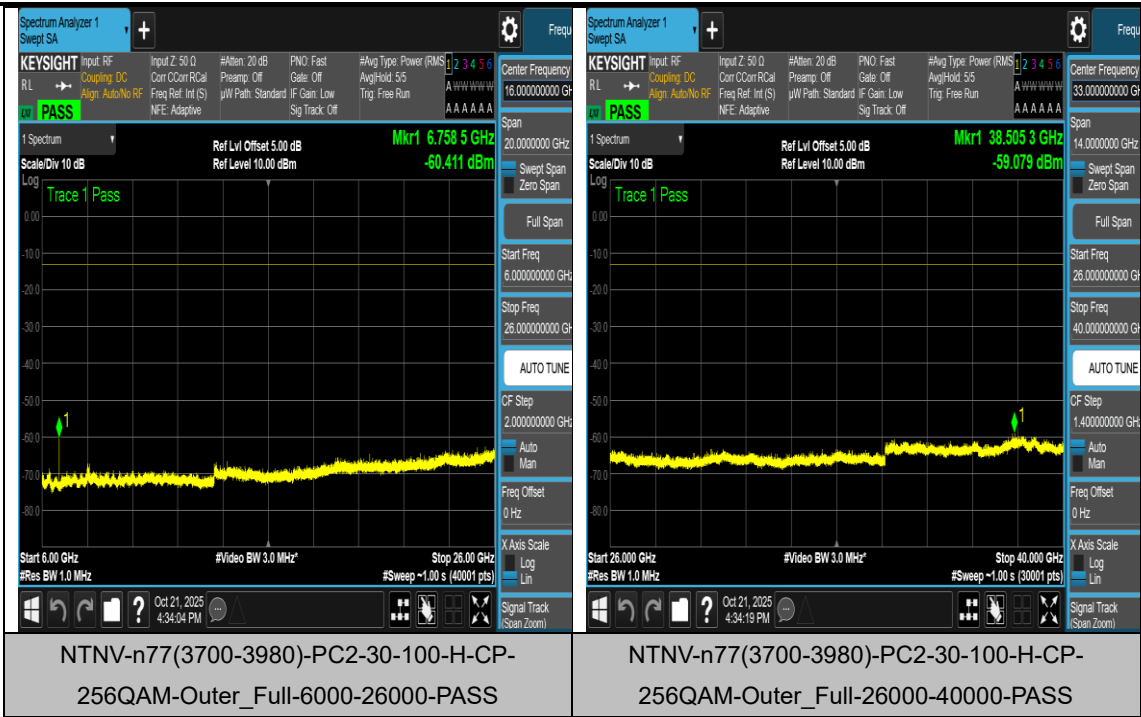








Appendix F: Frequency Stability for SA

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(3700-3980)	30	10	DFT-BPSK	L	Outer_Full	VL	NT	- 0.003542	- 2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	DFT-BPSK	L	Outer_Full	VN	NT	- 0.002989	- 2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	DFT-BPSK	L	Outer_Full	VH	NT	- 0.006059	- 2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	DFT-QPSK	L	Outer_Full	VL	NT	- 0.001363	- 2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	DFT-QPSK	L	Outer_Full	VN	NT	- 0.002797	- 2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	DFT-QPSK	L	Outer_Full	VH	NT	- 0.001989	- 2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	DFT-16QAM	L	Outer_Full	VL	NT	- 0.002083	- 2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	DFT-16QAM	L	Outer_Full	VN	NT	- 0.001046	- 2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	DFT-16QAM	L	Outer_Full	VH	NT	- 0.003171	- 2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	DFT-64QAM	L	Outer_Full	VL	NT	- 0.001651	- 2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	DFT-64QAM	L	Outer_Full	VN	NT	- 0.002432	- 2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	DFT-64QAM	L	Outer_Full	VH	NT	- 0.000359	- 2.5~2.5	3700	3980	---	PASS

n77(3 700- 3980)	30	10	DFT- 256Q AM	L	Outer_ Full	VL	NT	- 0.0029 64	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	10	DFT- 256Q AM	L	Outer_ Full	VN	NT	- 0.0021	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	10	DFT- 256Q AM	L	Outer_ Full	VH	NT	- 0.0017 18	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	10	CP- QPSK	L	Outer_ Full	VL	NT	- 0.0012 08	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	10	CP- QPSK	L	Outer_ Full	VN	NT	- 0.0043 11	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	10	CP- QPSK	L	Outer_ Full	VH	NT	- 0.0036 09	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	10	CP- 16QA M	L	Outer_ Full	VL	NT	- 0.0032 88	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	10	CP- 16QA M	L	Outer_ Full	VN	NT	- 0.0025 1	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	10	CP- 16QA M	L	Outer_ Full	VH	NT	- 0.0018 24	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	10	CP- 64QA M	L	Outer_ Full	VL	NT	- 0.0028 32	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	10	CP- 64QA M	L	Outer_ Full	VN	NT	- 0.0039 56	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	10	CP- 64QA M	L	Outer_ Full	VH	NT	- 0.0047 45	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	10	CP- 256Q AM	L	Outer_ Full	VL	NT	- 0.0015 28	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	10	CP- 256Q AM	L	Outer_ Full	VN	NT	- 0.0016 04	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	10	CP- 256Q	L	Outer_ Full	VH	NT	- 0.0037	- 2.5~2.	3700	3980	---	PASS

3980)			AM					71	5				
n77(3 700- 3980)	30	100	DFT- BPSK	H	Outer_ Full	VL	NT	- 1.9034 36	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	DFT- BPSK	H	Outer_ Full	VN	NT	1.7369 17	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	DFT- BPSK	H	Outer_ Full	VH	NT	- 2.1188 47	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	DFT- QPSK	H	Outer_ Full	VL	NT	1.4722 15	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	DFT- QPSK	H	Outer_ Full	VN	NT	- 0.0003 09	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	DFT- QPSK	H	Outer_ Full	VH	NT	- 0.0026 19	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	DFT- 16QA M	H	Outer_ Full	VL	NT	- 1.8656 94	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	DFT- 16QA M	H	Outer_ Full	VN	NT	- 0.0029 1	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	DFT- 16QA M	H	Outer_ Full	VH	NT	- 2.4994 92	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	DFT- 64QA M	H	Outer_ Full	VL	NT	- 0.3245 15	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	DFT- 64QA M	H	Outer_ Full	VN	NT	- 0.0008 08	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	DFT- 64QA M	H	Outer_ Full	VH	NT	- 0.7965 91	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	DFT- 256Q AM	H	Outer_ Full	VL	NT	0.7934 84	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	DFT- 256Q AM	H	Outer_ Full	VN	NT	- 0.0007 22	- 2.5~2. 5	3700	3980	---	PASS
n77(3	30	100	DFT-	H	Outer_	VH	NT	-	-	3700	3980	---	PASS

700-3980)			256Q AM		Full			0.0036 01	2.5~2. 5				
n77(3 700- 3980)	30	100	CP- QPSK	H	Outer_ Full	VL	NT	- 0.0026 05	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	CP- QPSK	H	Outer_ Full	VN	NT	- 0.9719 16	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	CP- QPSK	H	Outer_ Full	VH	NT	- 0.0025 37	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	CP- 16QA M	H	Outer_ Full	VL	NT	- 1.6601 62	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	CP- 16QA M	H	Outer_ Full	VN	NT	0.4572 07	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	CP- 16QA M	H	Outer_ Full	VH	NT	1.0121 54	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	CP- 64QA M	H	Outer_ Full	VL	NT	- 0.0023 87	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	CP- 64QA M	H	Outer_ Full	VN	NT	0.0219 67	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	CP- 64QA M	H	Outer_ Full	VH	NT	0.0633 68	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	CP- 256Q AM	H	Outer_ Full	VL	NT	- 1.4507 29	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	CP- 256Q AM	H	Outer_ Full	VN	NT	- 0.0016 73	- 2.5~2. 5	3700	3980	---	PASS
n77(3 700- 3980)	30	100	CP- 256Q AM	H	Outer_ Full	VH	NT	0.0001 94	- 2.5~2. 5	3700	3980	---	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(37 00- 3980)	30	10	DFT- BPSK	L	Outer_ Full	NV	-30	- 0.00327 5	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- BPSK	L	Outer_ Full	NV	-20	- 0.00155 8	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- BPSK	L	Outer_ Full	NV	-10	- 0.00505 5	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- BPSK	L	Outer_ Full	NV	0	- 0.00290 8	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- BPSK	L	Outer_ Full	NV	10	- 0.00320 4	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- BPSK	L	Outer_ Full	NV	20	- 0.00350 3	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- BPSK	L	Outer_ Full	NV	30	- 0.00286 7	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- BPSK	L	Outer_ Full	NV	40	- 0.00274 3	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- BPSK	L	Outer_ Full	NV	50	- 0.00160 3	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- QPSK	L	Outer_ Full	NV	-30	- 0.00239 9	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- QPSK	L	Outer_ Full	NV	-20	- 0.00134 8	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- QPSK	L	Outer_ Full	NV	-10	- 0.00164 1	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- QPSK	L	Outer_ Full	NV	0	- 0.00271 5	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- QPSK	L	Outer_ Full	NV	10	- 0.00190 9	- 2.5~2 .5	370 0	398 0	---	PAS S

n77(37 00- 3980)	30	10	DFT- QPSK	L	Outer_ Full	NV	20	-0.00034	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- QPSK	L	Outer_ Full	NV	30	- 0.00122 4	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- QPSK	L	Outer_ Full	NV	40	- 0.00230 3	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- QPSK	L	Outer_ Full	NV	50	- 0.00159 8	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 16QAM	L	Outer_ Full	NV	-30	- 0.00285	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 16QAM	L	Outer_ Full	NV	-20	- 0.00266 5	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 16QAM	L	Outer_ Full	NV	-10	- 0.00136 8	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 16QAM	L	Outer_ Full	NV	0	- 0.00322 7	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 16QAM	L	Outer_ Full	NV	10	- 0.00185 9	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 16QAM	L	Outer_ Full	NV	20	- 0.0001	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 16QAM	L	Outer_ Full	NV	30	- 0.00308 1	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 16QAM	L	Outer_ Full	NV	40	- 9.7E-05	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 16QAM	L	Outer_ Full	NV	50	- 0.001179	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 64QAM	L	Outer_ Full	NV	-30	- 0.00212	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 64QAM	L	Outer_ Full	NV	-20	- 0.00092	- 2.5~2	370 0	398 0	---	PAS S

3980)								7	.5				
n77(37 00- 3980)	30	10	DFT- 64QAM	L	Outer_ Full	NV	-10	- 0.00204 7	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 64QAM	L	Outer_ Full	NV	0	- 0.00085 5	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 64QAM	L	Outer_ Full	NV	10	- 0.00095 2	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 64QAM	L	Outer_ Full	NV	20	- 0.00164 9	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 64QAM	L	Outer_ Full	NV	30	- -0.00189	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 64QAM	L	Outer_ Full	NV	40	- 0.00280 3	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 64QAM	L	Outer_ Full	NV	50	- 0.00146 7	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 256QA M	L	Outer_ Full	NV	-30	- 0.00321 2	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 256QA M	L	Outer_ Full	NV	-20	- 0.00220 4	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 256QA M	L	Outer_ Full	NV	-10	- 0.00215 1	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 256QA M	L	Outer_ Full	NV	0	- 0.00060 1	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 256QA M	L	Outer_ Full	NV	10	- 0.00183 5	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 256QA M	L	Outer_ Full	NV	20	- 0.00149 5	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	DFT- 256QA M	L	Outer_ Full	NV	30	- 0.00155 4	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37	30	10	DFT-	L	Outer_	NV	40	-	-	370	398	---	PAS

00-3980)			256QAM		Full			0.004522	2.5~2.5	0	0		S
n77(3700-3980)	30	10	DFT-256QAM	L	Outer_Full	NV	50	-0.000218	2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	CP-QPSK	L	Outer_Full	NV	-30	-0.003367	2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	CP-QPSK	L	Outer_Full	NV	-20	-0.004462	2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	CP-QPSK	L	Outer_Full	NV	-10	-0.003908	2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	CP-QPSK	L	Outer_Full	NV	0	-0.002623	2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	CP-QPSK	L	Outer_Full	NV	10	-0.001116	2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	CP-QPSK	L	Outer_Full	NV	20	-0.002477	2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	CP-QPSK	L	Outer_Full	NV	30	-0.004596	2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	CP-QPSK	L	Outer_Full	NV	40	-0.004501	2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	CP-QPSK	L	Outer_Full	NV	50	-0.002366	2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	CP-16QAM	L	Outer_Full	NV	-30	-0.003295	2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	CP-16QAM	L	Outer_Full	NV	-20	-0.002467	2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	CP-16QAM	L	Outer_Full	NV	-10	-0.002681	2.5~2.5	3700	3980	---	PASS
n77(3700-3980)	30	10	CP-16QAM	L	Outer_Full	NV	0	-0.00456	2.5~2.5	3700	3980	---	PASS

n77(37 00- 3980)	30	10	CP- 16QAM	L	Outer_ Full	NV	10	- 0.00242 5	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	CP- 16QAM	L	Outer_ Full	NV	20	- 0.00298 3	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	CP- 16QAM	L	Outer_ Full	NV	30	- 0.00070 1	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	CP- 16QAM	L	Outer_ Full	NV	40	- 0.00373 8	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	CP- 16QAM	L	Outer_ Full	NV	50	- 0.00210 6	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	CP- 64QAM	L	Outer_ Full	NV	-30	- 0.00489 7	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	CP- 64QAM	L	Outer_ Full	NV	-20	- 0.00450 5	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	CP- 64QAM	L	Outer_ Full	NV	-10	- 0.00677 9	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	CP- 64QAM	L	Outer_ Full	NV	0	-0.00312	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	CP- 64QAM	L	Outer_ Full	NV	10	-0.00269	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	CP- 64QAM	L	Outer_ Full	NV	20	- 0.00421 6	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	CP- 64QAM	L	Outer_ Full	NV	30	- 0.00475 2	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	CP- 64QAM	L	Outer_ Full	NV	40	- 0.00183 9	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	CP- 64QAM	L	Outer_ Full	NV	50	- 0.00334 7	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	CP- 256QA	L	Outer_ Full	NV	-30	- 0.00206	- 2.5~2	370 0	398 0	---	PAS S

3980)			M					7	.5				
n77(37 00- 3980)	30	10	CP- 256QA M	L	Outer_ Full	NV	-20	- 0.00032 7	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	CP- 256QA M	L	Outer_ Full	NV	-10	- 0.00304 8	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	CP- 256QA M	L	Outer_ Full	NV	0	- 0.00052 8	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	CP- 256QA M	L	Outer_ Full	NV	10	- 0.00122 9	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	CP- 256QA M	L	Outer_ Full	NV	20	- 0.00354 7	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	CP- 256QA M	L	Outer_ Full	NV	30	- 0.00127 1	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	CP- 256QA M	L	Outer_ Full	NV	40	- 0.00256 5	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	10	CP- 256QA M	L	Outer_ Full	NV	50	- 0.00129 4	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- BPSK	H	Outer_ Full	NV	-30	2.18673 5	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- BPSK	H	Outer_ Full	NV	-20	- 1.78547 5	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- BPSK	H	Outer_ Full	NV	-10	1.59728 2	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- BPSK	H	Outer_ Full	NV	0	- 1.48597 3	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- BPSK	H	Outer_ Full	NV	10	- 0.00297 4	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- BPSK	H	Outer_ Full	NV	20	2.12712	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37	30	100	DFT-	H	Outer_	NV	30	-	-	370	398	---	PAS

00-3980)			BPSK		Full			1.898819	2.5~2.5	0	0		S
n77(3700-3980)	30	100	DFT-BPSK	H	Outer_Full	NV	40	0.013461	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	DFT-BPSK	H	Outer_Full	NV	50	-2.006235	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	DFT-QPSK	H	Outer_Full	NV	-30	-1.99645	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	DFT-QPSK	H	Outer_Full	NV	-20	-0.787868	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	DFT-QPSK	H	Outer_Full	NV	-10	-0.000809	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	DFT-QPSK	H	Outer_Full	NV	0	0.000957	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	DFT-QPSK	H	Outer_Full	NV	10	2.209682	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	DFT-QPSK	H	Outer_Full	NV	20	1.61177	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	DFT-QPSK	H	Outer_Full	NV	30	1.468607	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	DFT-QPSK	H	Outer_Full	NV	40	-0.006298	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	DFT-QPSK	H	Outer_Full	NV	50	1.930934	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	DFT-16QAM	H	Outer_Full	NV	-30	-0.002437	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	DFT-16QAM	H	Outer_Full	NV	-20	0.000115	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	DFT-16QAM	H	Outer_Full	NV	-10	-0.004827	-2.5~2.5	3700	3980	---	PAS S

n77(37 00- 3980)	30	100	DFT- 16QAM	H	Outer_ Full	NV	0	- 0.00467 2	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 16QAM	H	Outer_ Full	NV	10	- 0.00394 8	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 16QAM	H	Outer_ Full	NV	20	- 0.115319	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 16QAM	H	Outer_ Full	NV	30	- 0.00224 2	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 16QAM	H	Outer_ Full	NV	40	- 0.00182 6	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 16QAM	H	Outer_ Full	NV	50	- 2.42637 5	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 64QAM	H	Outer_ Full	NV	-30	- 0.00068 6	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 64QAM	H	Outer_ Full	NV	-20	- 1.78295 6	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 64QAM	H	Outer_ Full	NV	-10	- 0.00224 3	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 64QAM	H	Outer_ Full	NV	0	- 0.00106 8	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 64QAM	H	Outer_ Full	NV	10	- 0.79536 9	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 64QAM	H	Outer_ Full	NV	20	- 1.53138 7	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 64QAM	H	Outer_ Full	NV	30	- 1.58992 5	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 64QAM	H	Outer_ Full	NV	40	- 0.00303 5	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 64QAM	H	Outer_ Full	NV	50	- 2.45673 1	- 2.5~2	370 0	398 0	---	PAS S

3980)									.5				
n77(37 00- 3980)	30	100	DFT- 256QA M	H	Outer_ Full	NV	-30	- 0.00123 9	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 256QA M	H	Outer_ Full	NV	-20	- 0.00222 2	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 256QA M	H	Outer_ Full	NV	-10	- 0.00384 6	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 256QA M	H	Outer_ Full	NV	0	- 1.66673 9	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 256QA M	H	Outer_ Full	NV	10	-0.00164	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 256QA M	H	Outer_ Full	NV	20	1.90272 8	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 256QA M	H	Outer_ Full	NV	30	- 1.59096 5	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 256QA M	H	Outer_ Full	NV	40	- 0.00498 9	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	DFT- 256QA M	H	Outer_ Full	NV	50	- 0.00120 4	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	CP- QPSK	H	Outer_ Full	NV	-30	1.28007 4	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	CP- QPSK	H	Outer_ Full	NV	-20	0.12247 901	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	CP- QPSK	H	Outer_ Full	NV	-10	- 1.56984 6	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	CP- QPSK	H	Outer_ Full	NV	0	- 0.001188	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	CP- QPSK	H	Outer_ Full	NV	10	1.50464	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37	30	100	CP-	H	Outer_	NV	20	-	-	370	398	---	PAS

00-3980)			QPSK		Full			0.000148	2.5~2.5	0	0		S
n77(3700-3980)	30	100	CP-QPSK	H	Outer_Full	NV	30	0.000195	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	CP-QPSK	H	Outer_Full	NV	40	-0.002166	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	CP-QPSK	H	Outer_Full	NV	50	-1.923531	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	CP-16QAM	H	Outer_Full	NV	-30	-0.000595	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	CP-16QAM	H	Outer_Full	NV	-20	1.272527	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	CP-16QAM	H	Outer_Full	NV	-10	1.872272	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	CP-16QAM	H	Outer_Full	NV	0	-0.002202	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	CP-16QAM	H	Outer_Full	NV	10	0.463578	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	CP-16QAM	H	Outer_Full	NV	20	2.091647	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	CP-16QAM	H	Outer_Full	NV	30	0.799322	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	CP-16QAM	H	Outer_Full	NV	40	0.197174	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	CP-16QAM	H	Outer_Full	NV	50	0.888252	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	CP-64QAM	H	Outer_Full	NV	-30	-0.002213	-2.5~2.5	3700	3980	---	PAS S
n77(3700-3980)	30	100	CP-64QAM	H	Outer_Full	NV	-20	-0.402592	-2.5~2.5	3700	3980	---	PAS S

n77(37 00- 3980)	30	100	CP- 64QAM	H	Outer_ Full	NV	-10	- 0.00300 8	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	CP- 64QAM	H	Outer_ Full	NV	0	0.38773 7	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	CP- 64QAM	H	Outer_ Full	NV	10	- 1.12663 5	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	CP- 64QAM	H	Outer_ Full	NV	20	- 1.018119	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	CP- 64QAM	H	Outer_ Full	NV	30	1.44601 9	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	CP- 64QAM	H	Outer_ Full	NV	40	1.83966	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	CP- 64QAM	H	Outer_ Full	NV	50	-1.02769	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	CP- 256QA M	H	Outer_ Full	NV	-30	- 0.71075 6	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	CP- 256QA M	H	Outer_ Full	NV	-20	- 1.92558 5	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	CP- 256QA M	H	Outer_ Full	NV	-10	1.43927 4	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	CP- 256QA M	H	Outer_ Full	NV	0	- 0.00257 2	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	CP- 256QA M	H	Outer_ Full	NV	10	2.29815 1	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	CP- 256QA M	H	Outer_ Full	NV	20	1.25818 1	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	CP- 256QA M	H	Outer_ Full	NV	30	- 1.70440 2	- 2.5~2 .5	370 0	398 0	---	PAS S
n77(37 00- 3980)	30	100	CP- 256QA	H	Outer_ Full	NV	40	2.16334 3	- 2.5~2	370 0	398 0	---	PAS S

3980)			M						.5				
n77(3700-3980)	30	100	CP-256QA M	H	Outer_Full	NV	50	-0.644928	-2.5~2.5	3700	3980	---	PASS

Test Graphs

