



WALTEK



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
N78-345 0-3550	30	10	DFT-QPSK	L	Outer_Full	VL	NT	-10.730000	-0.003106	PASS
N78-345 0-3550	30	10	DFT-QPSK	L	Outer_Full	VN	NT	-7.170000	-0.002075	PASS
N78-345 0-3550	30	10	DFT-QPSK	L	Outer_Full	VH	NT	-15.930000	-0.004611	PASS
N78-345 0-3550	30	10	DFT-16QAM	L	Outer_Full	VL	NT	-15.490000	-0.004483	PASS
N78-345 0-3550	30	10	DFT-16QAM	L	Outer_Full	VN	NT	-13.150000	-0.003806	PASS
N78-345 0-3550	30	10	DFT-16QAM	L	Outer_Full	VH	NT	-17.450000	-0.005051	PASS
N78-345 0-3550	30	10	DFT-QPSK	M	Outer_Full	VL	NT	-12.600000	-0.003600	PASS
N78-345 0-3550	30	10	DFT-QPSK	M	Outer_Full	VN	NT	-16.160000	-0.004617	PASS
N78-345 0-3550	30	10	DFT-QPSK	M	Outer_Full	VH	NT	-11.870000	-0.003391	PASS
N78-345 0-3550	30	10	DFT-16QAM	M	Outer_Full	VL	NT	-19.090000	-0.005454	PASS
N78-345 0-3550	30	10	DFT-16QAM	M	Outer_Full	VN	NT	-11.530000	-0.003294	PASS
N78-345 0-3550	30	10	DFT-16QAM	M	Outer_Full	VH	NT	-9.300000	-0.002657	PASS
N78-345 0-3550	30	10	DFT-QPSK	H	Outer_Full	VL	NT	-17.730000	-0.005001	PASS
N78-345 0-3550	30	10	DFT-QPSK	H	Outer_Full	VN	NT	-13.700000	-0.003865	PASS
N78-345 0-3550	30	10	DFT-QPSK	H	Outer_Full	VH	NT	-9.240000	-0.002606	PASS
N78-345 0-3550	30	10	DFT-16QAM	H	Outer_Full	VL	NT	-25.880000	-0.007300	PASS
N78-345	30	10	DFT-16QAM	H	Outer_Full	VN	NT	-12.330000	-0.003478	PASS



0-3550										
N78-345 0-3550	30	10	DFT-16QAM	H	Outer_Full	VH	NT	-15.560000	-0.004389	PASS
N78-345 0-3550	30	15	DFT-QPSK	L	Outer_Full	VL	NT	-3.250000	-0.000940	PASS
N78-345 0-3550	30	15	DFT-QPSK	L	Outer_Full	VN	NT	-9.150000	-0.002646	PASS
N78-345 0-3550	30	15	DFT-QPSK	L	Outer_Full	VH	NT	-9.220000	-0.002667	PASS
N78-345 0-3550	30	15	DFT-16QAM	L	Outer_Full	VL	NT	-8.170000	-0.002363	PASS
N78-345 0-3550	30	15	DFT-16QAM	L	Outer_Full	VN	NT	-11.300000	-0.003268	PASS
N78-345 0-3550	30	15	DFT-16QAM	L	Outer_Full	VH	NT	-18.800000	-0.005437	PASS
N78-345 0-3550	30	15	DFT-QPSK	M	Outer_Full	VL	NT	-15.510000	-0.004431	PASS
N78-345 0-3550	30	15	DFT-QPSK	M	Outer_Full	VN	NT	-11.490000	-0.003283	PASS
N78-345 0-3550	30	15	DFT-QPSK	M	Outer_Full	VH	NT	-11.140000	-0.003183	PASS
N78-345 0-3550	30	15	DFT-16QAM	M	Outer_Full	VL	NT	-10.980000	-0.003137	PASS
N78-345 0-3550	30	15	DFT-16QAM	M	Outer_Full	VN	NT	-11.170000	-0.003191	PASS
N78-345 0-3550	30	15	DFT-16QAM	M	Outer_Full	VH	NT	-11.250000	-0.003214	PASS
N78-345 0-3550	30	15	DFT-QPSK	H	Outer_Full	VL	NT	-20.270000	-0.005722	PASS
N78-345 0-3550	30	15	DFT-QPSK	H	Outer_Full	VN	NT	-13.690000	-0.003865	PASS
N78-345 0-3550	30	15	DFT-QPSK	H	Outer_Full	VH	NT	-16.090000	-0.004542	PASS
N78-345 0-3550	30	15	DFT-16QAM	H	Outer_Full	VL	NT	-14.890000	-0.004203	PASS
N78-345 0-3550	30	15	DFT-16QAM	H	Outer_Full	VN	NT	-18.390000	-0.005191	PASS
N78-345 0-3550	30	15	DFT-16QAM	H	Outer_Full	VH	NT	-19.160000	-0.005409	PASS
N78-345 0-3550	30	20	DFT-QPSK	L	Outer_Full	VL	NT	-17.500000	-0.005058	PASS
N78-345	30	20	DFT-QPSK	L	Outer_Full	VN	NT	-13.350000	-0.003858	PASS



0-3550										
N78-345 0-3550	30	20	DFT-QPSK	L	Outer_Full	VH	NT	-7.420000	-0.002145	PASS
N78-345 0-3550	30	20	DFT-16QAM	L	Outer_Full	VL	NT	-9.790000	-0.002829	PASS
N78-345 0-3550	30	20	DFT-16QAM	L	Outer_Full	VN	NT	-19.190000	-0.005546	PASS
N78-345 0-3550	30	20	DFT-16QAM	L	Outer_Full	VH	NT	-11.430000	-0.003303	PASS
N78-345 0-3550	30	20	DFT-QPSK	M	Outer_Full	VL	NT	-8.690000	-0.002483	PASS
N78-345 0-3550	30	20	DFT-QPSK	M	Outer_Full	VN	NT	-16.890000	-0.004826	PASS
N78-345 0-3550	30	20	DFT-QPSK	M	Outer_Full	VH	NT	-18.750000	-0.005357	PASS
N78-345 0-3550	30	20	DFT-16QAM	M	Outer_Full	VL	NT	-11.810000	-0.003374	PASS
N78-345 0-3550	30	20	DFT-16QAM	M	Outer_Full	VN	NT	-18.260000	-0.005217	PASS
N78-345 0-3550	30	20	DFT-16QAM	M	Outer_Full	VH	NT	-15.600000	-0.004457	PASS
N78-345 0-3550	30	20	DFT-QPSK	H	Outer_Full	VL	NT	-17.780000	-0.005023	PASS
N78-345 0-3550	30	20	DFT-QPSK	H	Outer_Full	VN	NT	-12.270000	-0.003466	PASS
N78-345 0-3550	30	20	DFT-QPSK	H	Outer_Full	VH	NT	-14.450000	-0.004081	PASS
N78-345 0-3550	30	20	DFT-16QAM	H	Outer_Full	VL	NT	-12.790000	-0.003613	PASS
N78-345 0-3550	30	20	DFT-16QAM	H	Outer_Full	VN	NT	-21.630000	-0.006110	PASS
N78-345 0-3550	30	20	DFT-16QAM	H	Outer_Full	VH	NT	-6.520000	-0.001842	PASS
N78-345 0-3550	30	40	DFT-QPSK	L	Outer_Full	VL	NT	-13.080000	-0.003769	PASS
N78-345 0-3550	30	40	DFT-QPSK	L	Outer_Full	VN	NT	-8.350000	-0.002406	PASS
N78-345 0-3550	30	40	DFT-QPSK	L	Outer_Full	VH	NT	-12.030000	-0.003467	PASS
N78-345 0-3550	30	40	DFT-16QAM	L	Outer_Full	VL	NT	-13.730000	-0.003956	PASS
N78-345	30	40	DFT-16QAM	L	Outer_Full	VN	NT	-12.300000	-0.003545	PASS



0-3550										
N78-345 0-3550	30	40	DFT-16QAM	L	Outer_Full	VH	NT	-12.550000	-0.003617	PASS
N78-345 0-3550	30	40	DFT-QPSK	M	Outer_Full	VL	NT	-14.020000	-0.004006	PASS
N78-345 0-3550	30	40	DFT-QPSK	M	Outer_Full	VN	NT	-18.540000	-0.005297	PASS
N78-345 0-3550	30	40	DFT-QPSK	M	Outer_Full	VH	NT	-19.110000	-0.005460	PASS
N78-345 0-3550	30	40	DFT-16QAM	M	Outer_Full	VL	NT	-15.550000	-0.004443	PASS
N78-345 0-3550	30	40	DFT-16QAM	M	Outer_Full	VN	NT	-19.810000	-0.005660	PASS
N78-345 0-3550	30	40	DFT-16QAM	M	Outer_Full	VH	NT	-11.590000	-0.003311	PASS
N78-345 0-3550	30	40	DFT-QPSK	H	Outer_Full	VL	NT	-14.770000	-0.004184	PASS
N78-345 0-3550	30	40	DFT-QPSK	H	Outer_Full	VN	NT	-17.960000	-0.005088	PASS
N78-345 0-3550	30	40	DFT-QPSK	H	Outer_Full	VH	NT	-17.330000	-0.004909	PASS
N78-345 0-3550	30	40	DFT-16QAM	H	Outer_Full	VL	NT	-24.440000	-0.006923	PASS
N78-345 0-3550	30	40	DFT-16QAM	H	Outer_Full	VN	NT	-14.800000	-0.004193	PASS
N78-345 0-3550	30	40	DFT-16QAM	H	Outer_Full	VH	NT	-14.870000	-0.004212	PASS
N78-345 0-3550	30	50	DFT-QPSK	L	Outer_Full	VL	NT	-15.530000	-0.004469	PASS
N78-345 0-3550	30	50	DFT-QPSK	L	Outer_Full	VN	NT	-7.950000	-0.002288	PASS
N78-345 0-3550	30	50	DFT-QPSK	L	Outer_Full	VH	NT	-16.030000	-0.004613	PASS
N78-345 0-3550	30	50	DFT-16QAM	L	Outer_Full	VL	NT	-17.940000	-0.005163	PASS
N78-345 0-3550	30	50	DFT-16QAM	L	Outer_Full	VN	NT	-11.560000	-0.003327	PASS
N78-345 0-3550	30	50	DFT-16QAM	L	Outer_Full	VH	NT	-10.550000	-0.003036	PASS
N78-345 0-3550	30	50	DFT-QPSK	M	Outer_Full	VL	NT	-17.230000	-0.004923	PASS
N78-345	30	50	DFT-QPSK	M	Outer_Full	VN	NT	-15.030000	-0.004294	PASS