

## Sherwood Engineering HF Test Results

Mode: Ten-Tec Orion #1                      Serial # 07C10203                      Test Date: 3/27/04

IF BW 6000, -6 / -60, Hz	6204/6341	Ultimate	dB
IF BW 2400 -6 / -60, Hz	2347/2744	Ultimate	dB
IF BW 1800 -6 / -60, Hz	1773/2144	Ultimate	dB
IF BW 500 -6 / -60, Hz	530/847	Ultimate	dB

Front End Selectivity (A - F)			B
IF Rejection, 14.2 MHz @ 450 kHz IF		>90	dB
First IF Rejection @ 9 MHz IF		>90	dB

Dynamic Range 100 kHz	97	dB	IP3	+19	dBm
Dynamic Range 20 kHz	96	dB	IP3		dBm
Dynamic Range 5 kHz	94	dB	IP3		dBm
Dynamic Range 2 kHz	93	dB	IP3		dBm
Dynamic Range 1 kHz	85	dB	IP3		dBm

Blocking above noise floor at 100 kHz spacing	137	dB
Phase noise (normalized) at 10 kHz spacing:	130	dBc

Noise floor, SSB bandwidth 14 MHz, Preamp Off	-121	dBm
Noise floor, SSB bandwidth 14 MHz, Preamp On	-128	dBm
Sensitivity at 14 MHz, Preamp Off)	0.6	uV
Sensitivity at 14 MHz, Preamp On	0.25	uV

Noise floor, 500 Hz, 14.2 MHz, Preamp Off	-127	dBm
Noise floor, 500 Hz, 14.2 MHz, Preamp On	-135	dBm

Noise floor, SSB, 2 MHz		dBm
Noise floor, CW, 2 MHz		dBm
Sensitivity, 2 MHz		uV

Signal for S9, Preamp Off / On	50/12	uV
Preamp, dB gain,	10	dB

AGC Threshold at 3 dB, Preamp Off, thresh set to 5	0.8	uV
Drift after 10 second warmup		Hz