

Technical Note 3-98

Upgrade the ATS¹ Load Pull System using FOCUS "WinPower" Software

Having the right Load-Pull Software Environment is crucial to characterizing, understanding and optimizing the behavior of power transistors. The latest Load Pull Software of FOCUS Microwaves, "WinPower", version 6.0 for Windows[®] 95/98/NT, is an integrated and easily usable package which allows a vast range of device measurements. "WinPower" can now be employed to upgrade all existing load pull systems from Maury Microwave (ATS[®]). Because of the similarities of the hardware of the Maury and Focus systems, the implementation is easy: i.e. WinPower's control drivers are modified to position and initialize the ATS[®] tuners so they can be operated the same way as the CCMT[®] tuners. System implementation is straightforward and does not require extra training, also because of the "on-line" Help library.

⁽¹⁾ ATS[®], Automatic Tuner System, Maury Microwave Corp.

Some of the Advantages of using "WinPower":

- Continuous high resolution "mouse" tuning to all Tuner impedances (not only calibrated points)
- Very fast Tuner Calibration (2 minutes per frequency)
- Generic FOCUS TRL Fixture Calibration
- Macro File Operation and Editor
- Design Window with \pm Tolerance
- Configurable Tool Box
- Automatic Oscillation Detection during L/P
- Temperature vs. Parameter Measurements
- L/P for Constant Pout, IMD, PAE, ACPR ...
- 2D, 3D Contours and Saturation plots...
- Integrated Harmonic Tuner Operation *
- On line Help and Service Manual
- Multiple Measurement Lists
- User defined "Figure of Merit"
- IV-curves with Auto Bias
- S-parameter with Test Fixture Deembedding and Adapter Removal
- "HP-VEE" and "LabView" drivers
- "WinGPTC" allows full Tuner operation via GPIB
- Over 100 fully integrated GPIB Instrument Drivers

* requires extra PHT tuners (see TN 2-98)

