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Product Note 25

Tuner Operation using HP-VEE®

HP-VEE® is a WINDOWS® software package that operates an Icon based Graphical User Interface (GUI). HP-VEE permits to place and connect different GPIB instruments in complete RF test setups, control and read the instruments and generate test procedure results and plots. HP-VEE includes a GPIB instrument library and permits to generate User specific drivers. These drivers can be included as DLL's (Dynamic Link Libraries) that can be called by HP-VEE.

FOCUS Microwaves has developed a specific DLL for HP-VEE that allows to **use calibrated microwave tuners (CCMT) as fully integrated components in HP-VEE**. The Focus DLL permits the following operations:

1. **Initialize and Calibrate** up to two Tuners.
2. **Tune** to any required **Impedance** point
3. Compute **S-parameter, Loss and motor positions** of a CCMT tuner Twoport at any tuneable impedance and frequency.

Using HP-VEE® and the Focus DLL Engineers can develop their own test and measurement procedures and subroutines, such as:

- Tune to any Impedance
- Measure S-parameter of devices
- Measure Power, Gain, Efficiency, Intermod, Noise Figure
- Set/Read Bias of Devices
- Control Wafer Probe Stations
- Measure transistor transfer curves
- Make Load Pull measurements
- Make Noise Measurements
- Save data in ASCII files
- Generate plots using these data

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