

### **A.3 RF and Microwave Power Calibrations at the National Measurement Laboratory (NML), CSIRO**

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The RF and Microwave Group at CSIRO, National Measurement Laboratory, has responsibility to maintain and disseminate RF and Microwave standards. The RF and microwave power calibration service will be briefly described in this poster.

A coaxial microcalorimeter has been established at NML to provide a national primary standard measurement facility, which is used for calibrating RF and microwave reference power sensors.

The six-port measurement technique has diverse applications such as reflectometer, automatic S-parameter network analysis, and power measurement. Power sensor calibrations are mainly conducted using automated six-port networks.

Three six-port networks have been implemented to provide power calibrations from 1 GHz up to 40 GHz.

New automated power calibration procedures using splitters are being developed.