

Automatic Fixture Removal Plug-in

Automatic Fixture Removal (AFR) VNA software plug-in enables the measurement of a wide range of components through comprehensive methods tailored to specific fixture properties. The intuitive AFR software moves the calibration plane towards hard to access DUTs and guides the de-embedding process using either time-gating, filtering, or bisect methods. These methods provide the user with better measurement accuracy and reliability based on the components to test. The AFR software plug-in is easy to use and is compatible with all CMT 2- and 4-port Cobalt series VNAs and Compact series two-port, two-path VNAs.

The Automatic Fixture Removal (AFR) plugin uses metrology grade de-embedding algorithms to eliminate fixture effects on a DUT. CMT offers 2xThrough or 1xReflect fixture removal support with three methods that fit different fixture configurations:

1. Time-gating approach is ideal for fixtures with long electrical length of leading transmission lines or for higher frequency options.
2. Filtering algorithm is useful in cases where signals in both parts of the fixture significantly overlap in time domain.
3. Bisect method covers instances with short electrical length of the fixture leading transmission lines and inadequate time domain resolution.

