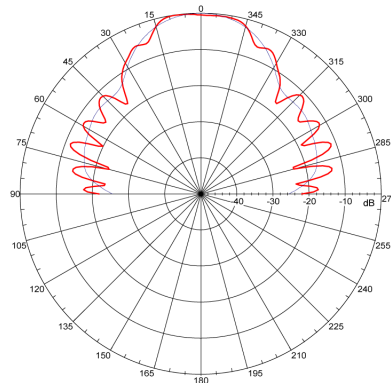
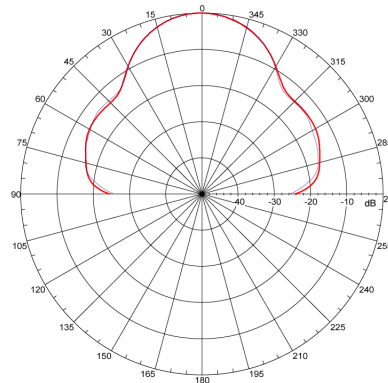




Far-Field Amplitude



No Correction



MARS Correction Applied

FEATURES

- **Suppression of chamber and system reflections**
- **Suppression of radome and gantry reflections**
- **Improved gain and directivity measurement results**
- **Improved sidelobe and cross-polarization results**

DESCRIPTION

Reflections in antenna test ranges can often be the largest source of measurement error, dominating all other errors. The MARS reflection suppression software uses a new technique developed by NSI-MI to suppress reflections from many sources in far-field and near-field antenna test ranges. The technique, named Mathematical Absorber Reflection Suppression (MARS), is a post-processing technique that involves analysis of the measured data and a special filtering process to suppress the undesirable scattered signals. This technique can be applied to any range and has also been applied to extend the useful frequency range of microwave absorber in anechoic chambers.

CAPABILITIES

The MARS software can suppress and/or remove reflections from reflection sources such as a radome or gantry in a far-field or near-field range, as well as improve the performance of a system in a conventional anechoic chamber. There is no additional hardware required to use the technique and a 10 dB to 20 dB improvement in performance can typically be achieved.

COMPATIBILITY

- **Windows® 10**
- **NSI2000 Professional Edition**

STANDARD COMPONENTS

- **MARS Software**
- **Software Manual**