RCS Analysis

Accessory Package for Arena Software

DESCRIPTION
NSI-MI’s RCS Analysis software provides the capability to process data acquired in radar cross section acquisitions. Functions are provided to compensate for background subtraction and target calibration. The corrected data can be processed to generate various outputs such as RCS versus frequency, aspect; RCS versus downrange, aspect; cross-range; focused/unfocused ISAR imaging; temporal doppler, and range walk among others. Zero doppler subtraction and software gating functions are also provided. RCS Analysis also includes a drift correction utility to compensate for drift in long RCS acquisitions. With the RCS Analysis software gating function, RCS data can be collected with a CW system. However, to use the software gating function, all data must be collected in multiple frequency mode. Consult NSI-MI Technologies for available gating systems. RCS analysis solutions are subject to U.S. export restrictions.

PLOTS
The plots shown above were taken using horizontal cylinder target and come from a single data file. Data taken on a 36 cm (14 in.) diameter sphere was used as the calibration data.

COMPATIBILITY
- Windows® 7, 10
- Arena Data Acquisition Software

STANDARD COMPONENTS
- RCS Analysis Software
- Software Manual