SDR Code Update to Enable I/Q Complex Date Processing

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I. Format of Real and Complex Data Input Files

The selection of the input data type is defined in the updated initSettings.m file

1. Real Data (same as the original version)

The data type is 8 bits signed character "schar". The data only contains the real component at a non-zero baseband IF. The format of the real data is

Data=I1, I2, I3, I4.....

2. Complex Data

The data type is 8 bits signed character "schar". The data contains both real and imaginary components (I & Q). The format of the complex I/Q data is

Data=I1, Q1, I2, Q2, I3, Q3, I4, Q4.....

II. Details of the Update

1. Files need to be updated or added (which will provide a fix of the original bugs as well as added real OR complex data processing)

- probeData.m (Updated)
- postprocessing.m (Updated)
- > acquisition.m (Updated)
- tracking.m (Updated)
- ➢ initSettings.m (Updated)
- plotAcquisition.m (Updated)
- include\preRun.m (Updated)
- geoFunctions\deg2dms.m (Added)
- geoFunctions\dms2mat.m (Added)
- geoFunctions\mat2dms.m (Added)
- geoFunctions\roundn.m (Added)