**Documentation**

* Does the dataset contain all documentation needed to use and understand its data without prior knowledge?
	+ I believe so. There are some places where the descriptions will need to be improved when calibrated and geometry data becomes available.
		- On page 7, highlight that 6.5 mrad is the FWHM.
		- On page 7, Vicky has a comment about the data having a minimum of 4 locations across the asteroid. Perhaps clarify.
		- Page 8, I find fig2-1 to be a bit confusing. It’s the pointing uncertainty always 1/8 of the asteroid’s diameter? Won’t this vary with distance and size? Alo- is the scan direction going to towards the left?
		- Section 2.3.1 is not very helpful as currently written.
		- Table 2-3 is missing where ENG data falls (or at least its not clear).
		- Table 2-5 must be TBR as there are no volume data shown.
		- The table on Page 25 is either a duplicate or one table is uncalibrated and the other is ENG. I can’t tell.
* Is the provided documentation well organized, clear and self-consistent?
	+ Generally, but there are many places labeled TBR.
* Can the dataset be understood without any external documentation it references, or should the information in said external references be incorporated into the dataset?
	+ I think so, at least for the engineering data. Once again, several places are still labeled TBR.
* If reviewing calibrated data, does the documentation fully explain the calibration process and contain all necessary parameters needed to repeat it?
	+ N/A as only the engineering data is readable.

**PDS Labels and Meta Data**

* Are the descriptions and scientific content contained inside the PDS labels sufficient to understand their corresponding data products?
	+ “Iterferogram” is misspelled in labels:description, but not in the ifgm axis\_name labels.
* Is all significant meta data included directly in the PDS labels?
	+ As far as I can tell using the PDS4\_Viewer.
* Do the labels provide all essential description of data values directly in the label, instead of deferring them to external references or documentation?
	+ Generally
	+ Table 3-1 has a label for cmd\_fc\_echo and cmd\_seq\_echo but in the meta data “cmd” is replaced with “cal”
	+ Table 3-1 index starts at 1 but the PDS4 Label has it starting at 0.
* Can the data be read programmatically using only the information contained in the PDS labels?
	+ For the ENG data – yes. Some of the science data labels are already valid using the PDS4 viewer.

**Data**

* Does the data look physically reasonable when examining it by eye or via a display tool?
	+ Yes
* When displaying the data as plots or images, are there any unexpected deviations?
	+ None that I noticed.
* Formulate a scientific inquiry and attempt to use the data to answer the inquiry.
	+ Figure 1 (below) shows an interferogram and its FFT inversion. It does resemble what I would expect for a thermal spectrum. It generally looks like a blackbody curve with non-uniform emissivity.
* If reviewing both raw and calibrated data, attempt to calibrate a raw data file.
	+ N/A



Figure 1: (Left) an interferogram from the PDS ENG data file. (right) The DFT of the interferogram.