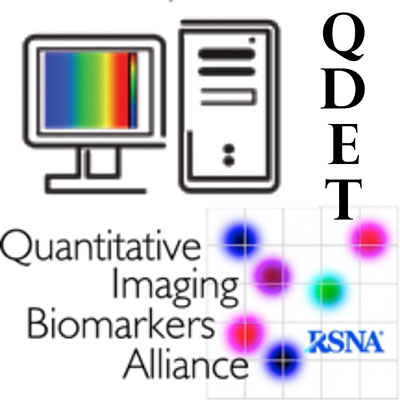
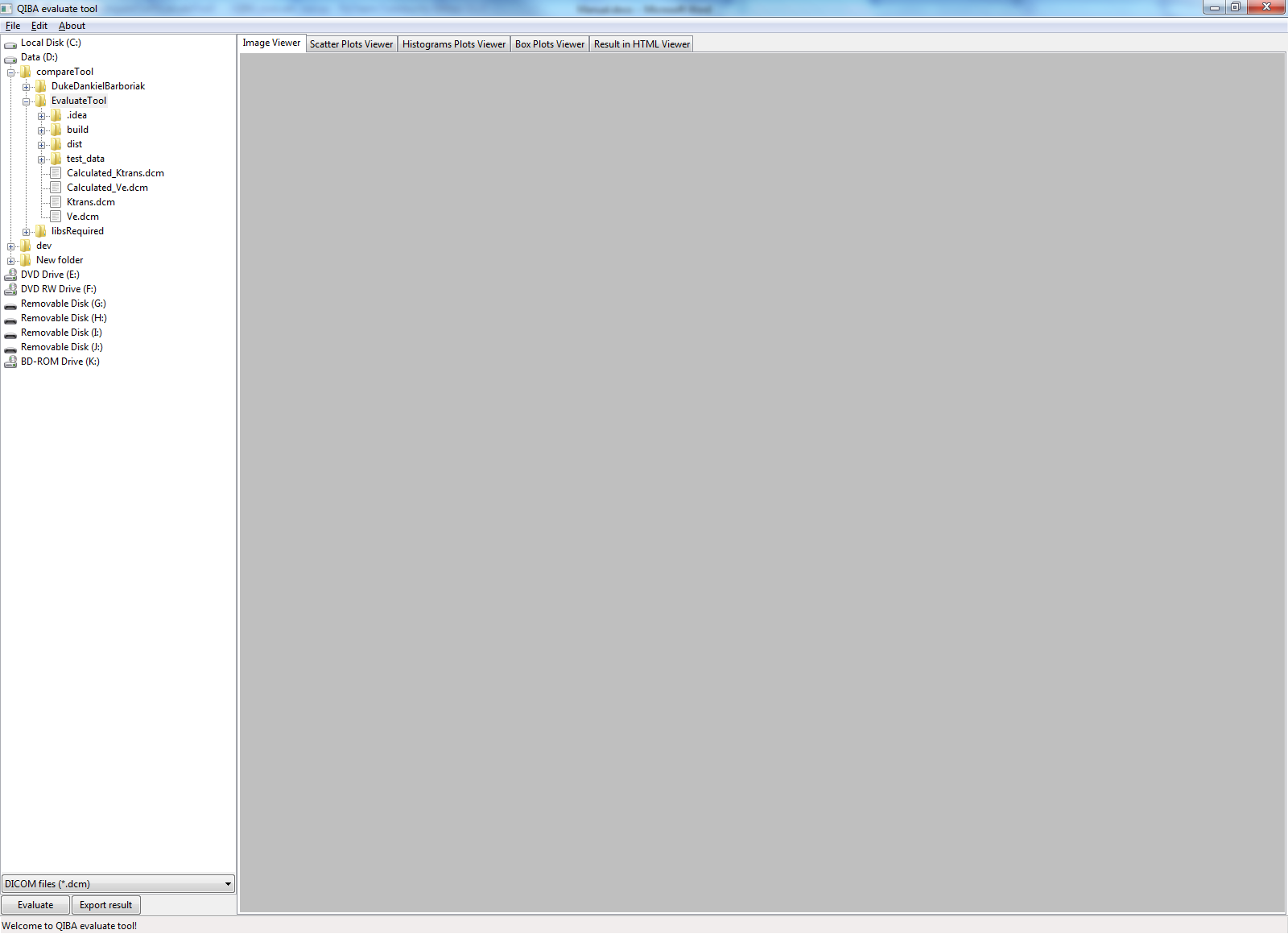
Manual of QIBA-PDF-Evaluation tool

This manual will shortly introduce how to maneuver the application.

* Download and install the necessary packages, if you are going to run the source code. Please find the relevant information in file ‘README.md’ .
* The stand-alone installer for Windows is now available. After installing it on the computer, you should have the same using experience with running the application and running the source code with Python.
* Run QIBA evaluate tool. The slash window will show and last for 2 seconds.

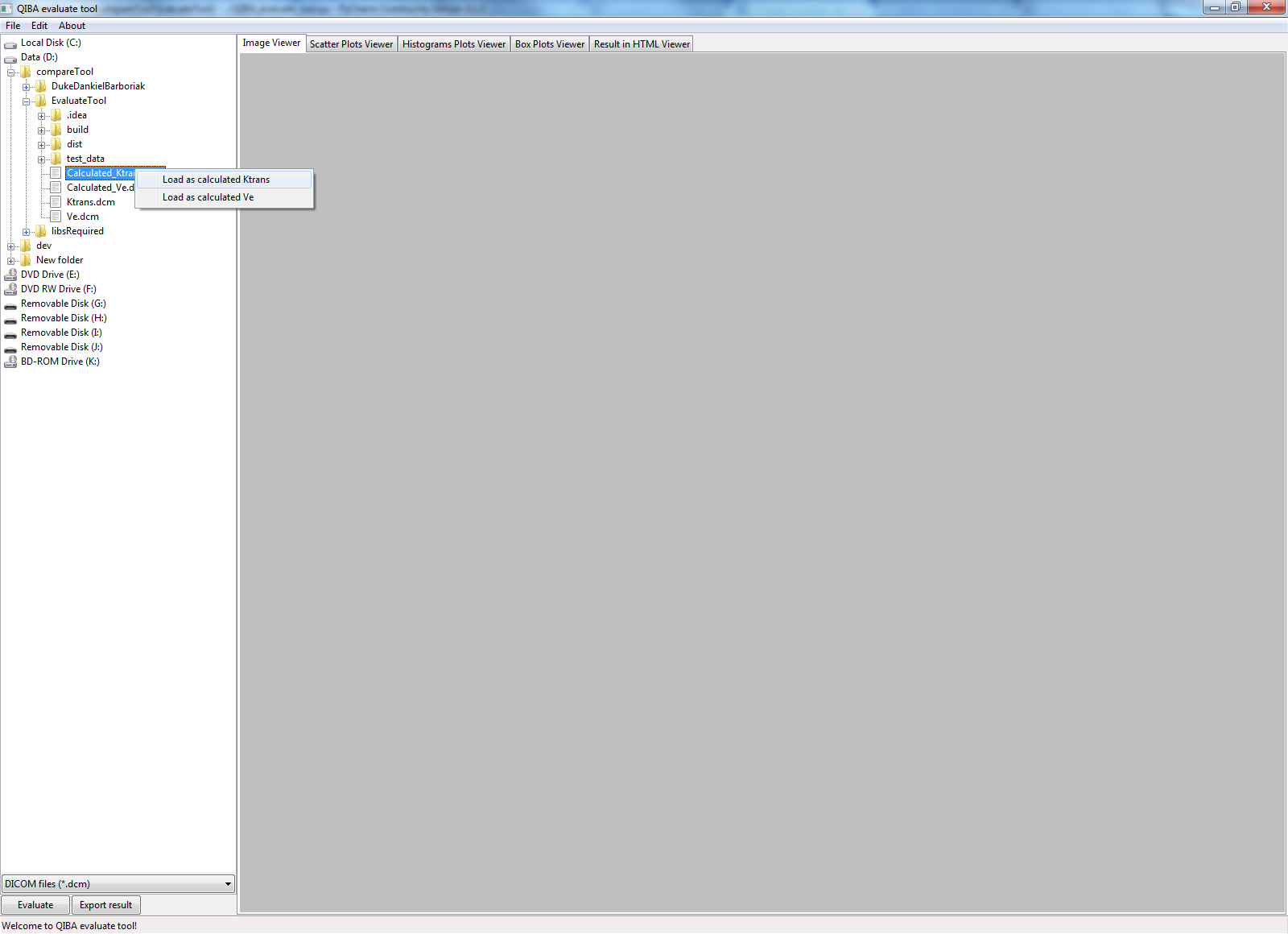


* The interface on initialization should look like:

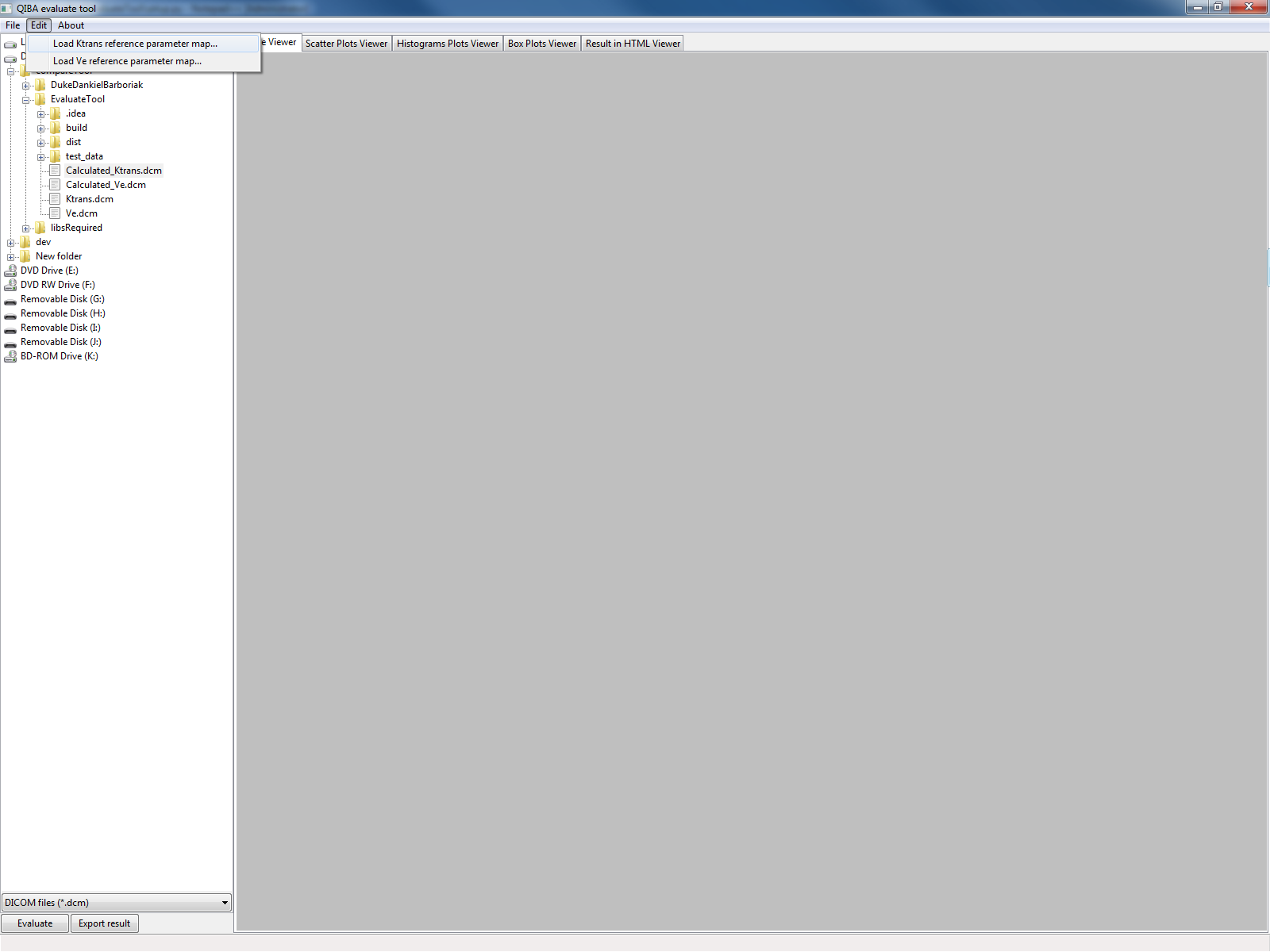


(The left side of the window is the tree list of the directories and files. By default, the directory of the application will be selected.)

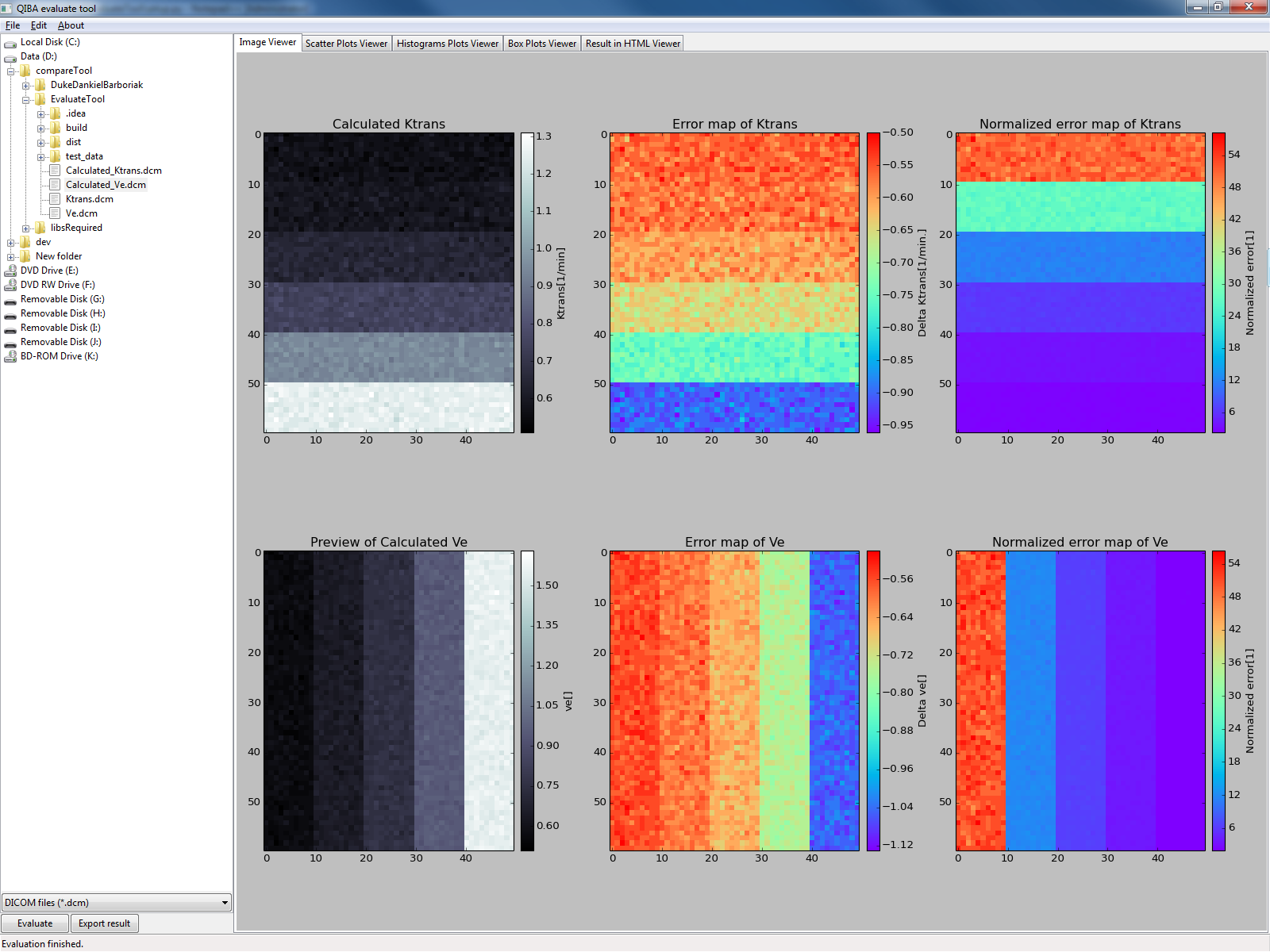
* In order to import the calculated data, please click on the DICOM file that you want to import. Then right click on it, resulting in a popup menu with two options: “Load as calculated Ktrans” and “Load as calculated Ve”. Left click to choose the corresponding option to load the file.



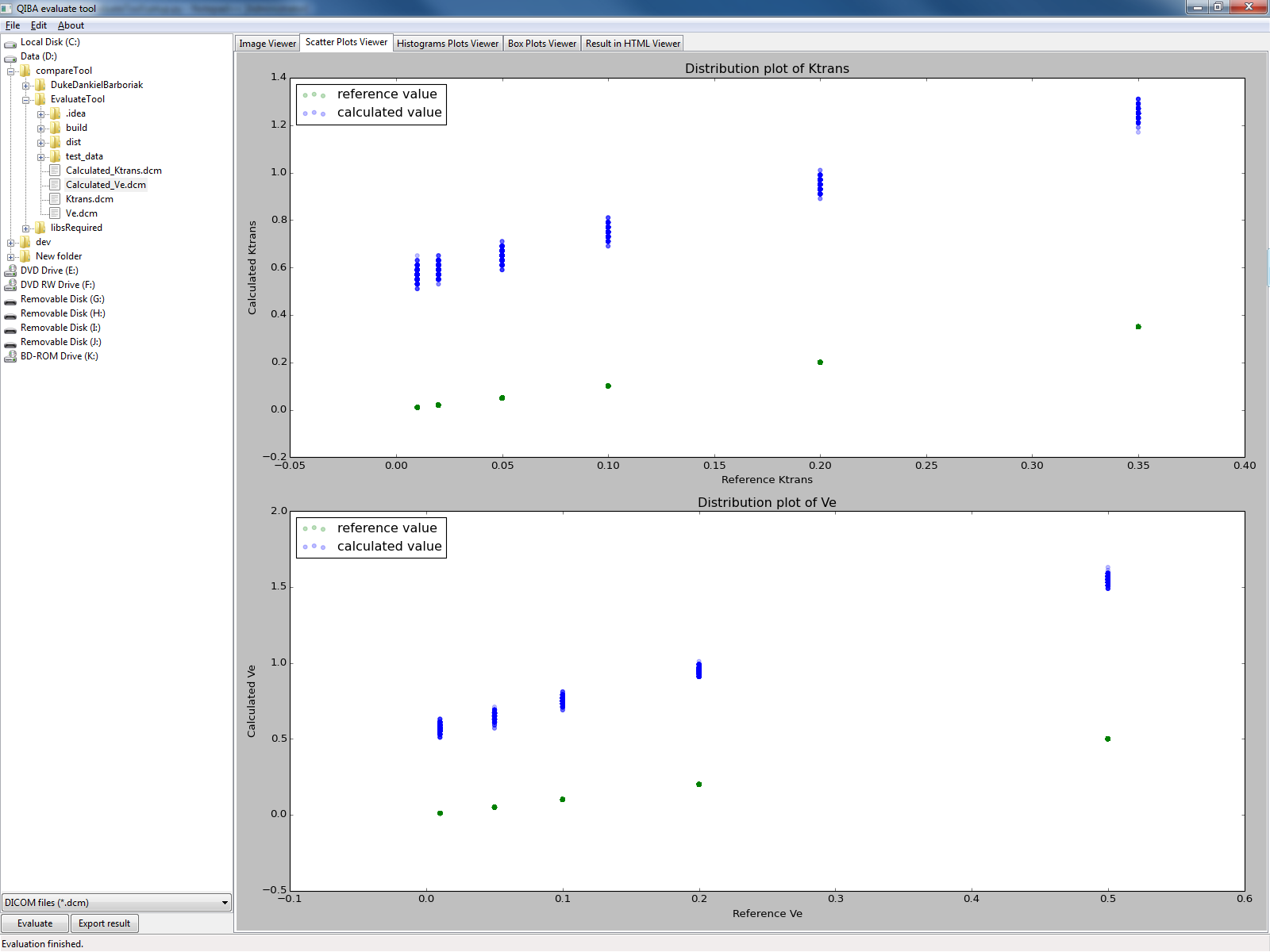
* By default, the reference files are loaded on launching the application. In case you want to change the reference files, please click on the menu bar “Edit -> Load Ktrans reference parameter map…” or “Edit -> Load Ve reference parameter map…”. In the new file selection dialog, you can choose the DICOM file that you want to load as reference data.



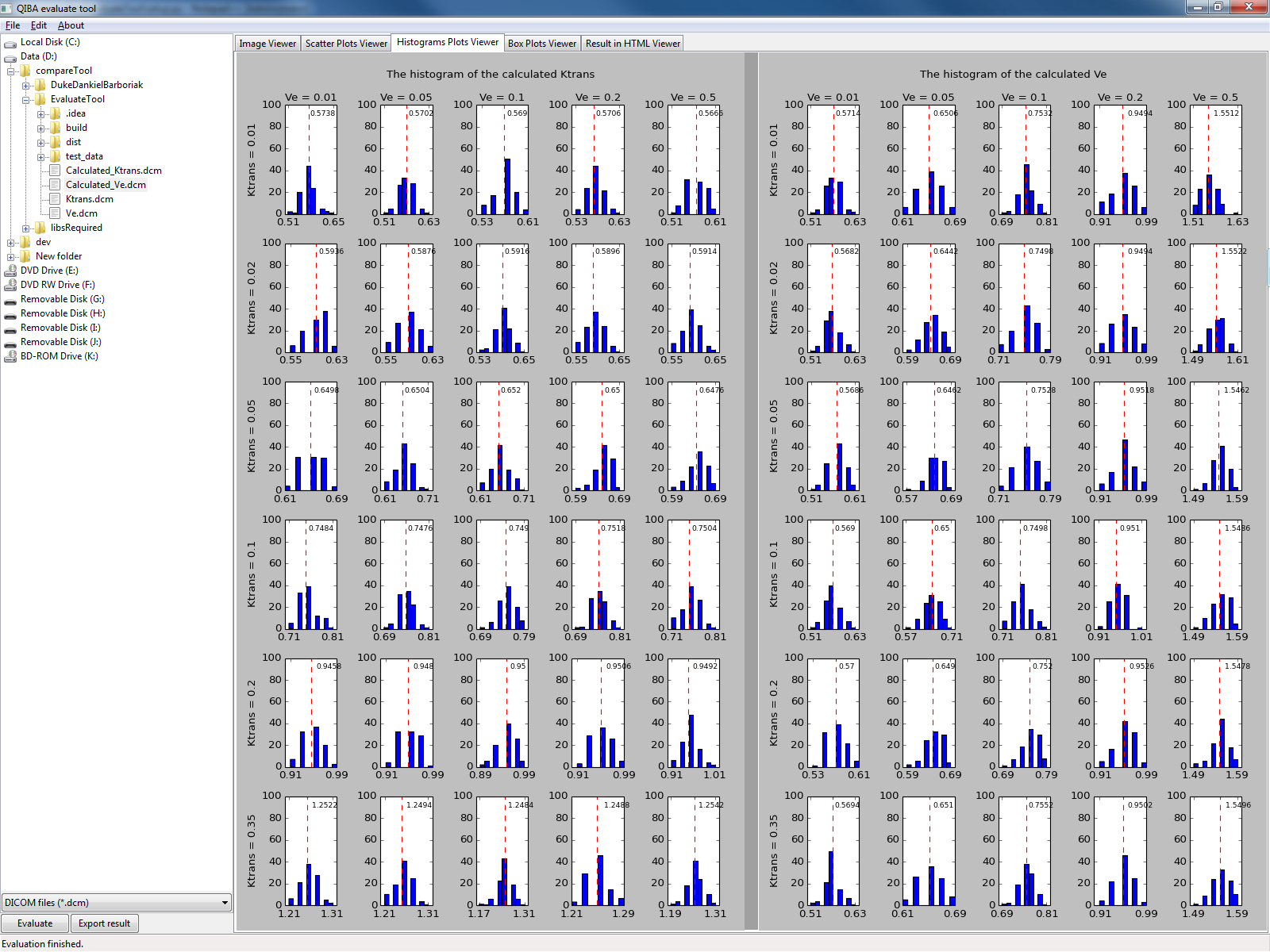
* Once the calculated Ktrans and Ve are loaded, the evaluation will start by clicking on the “Evaluate” button at the bottom of the left column of the window. When the status bar shows the message “Evaluation finished.”, the evaluation results could be viewed from the tabs on the right side of the window.
* The tab “Image Viewer” shows the preview of the calculate Ktrans and Ve files, the error compared to the reference files, and the normalized error, in each column from the left side to the right side.



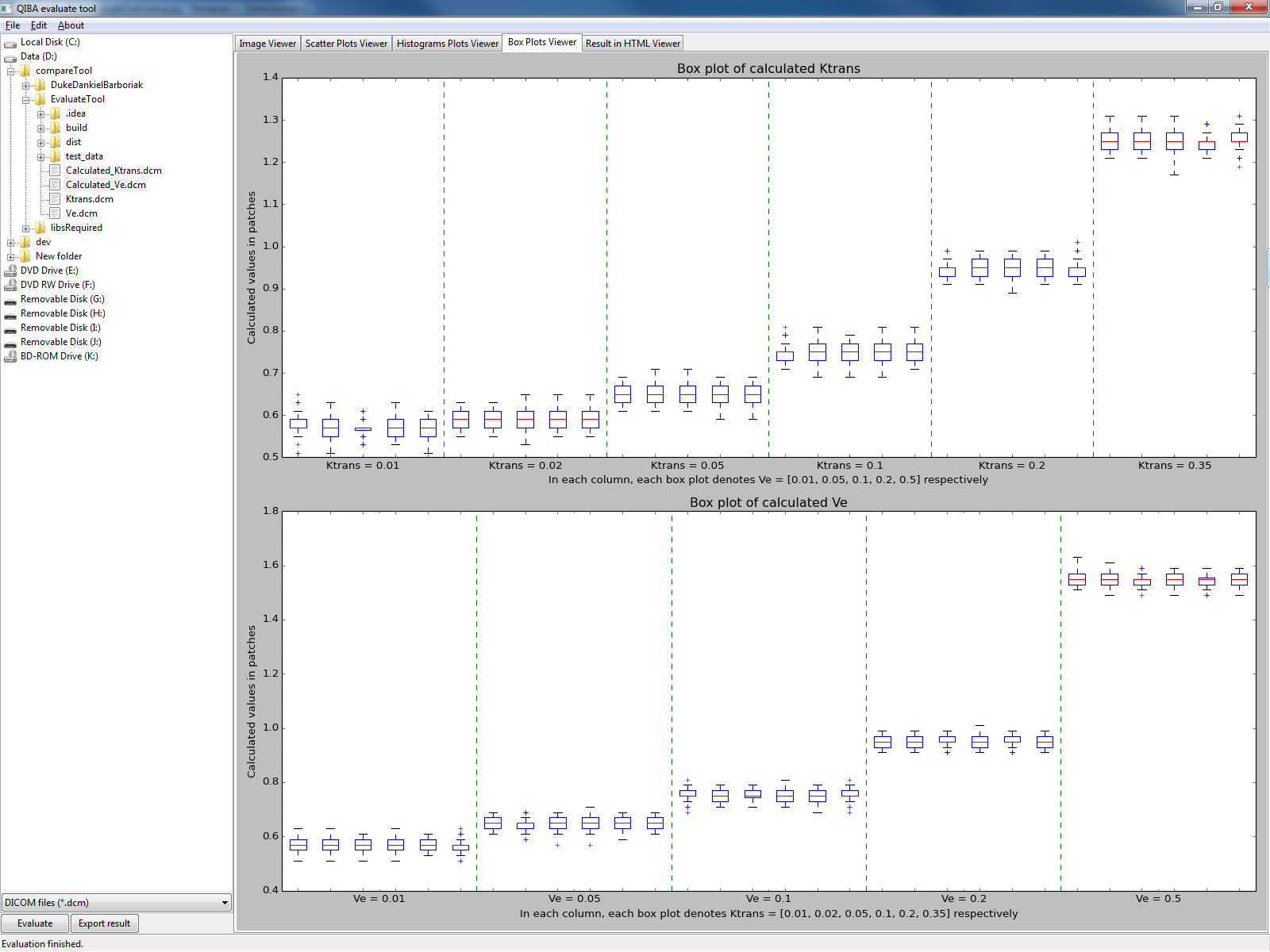
* The tab “Scatter Plots Viewer” shows the scatter plots of the calculated and the reference Ktrans and Ve.



* The tab “Histograms Plots Viewer” shows the histogram of each patch from calculated Ktrans and Ve, so that you can have a look at the distribution of the pixels in each patch of difference parameter combination.



* The tab “Box Plots Viewer” shows the box plots of each patch in the calculated Ktrans and Ve files. It offers another view of the distribution of the patches with different parameter combinations.



* The tab “Result in HTML Viewer” shows the results in HTML form. In this form, some statistics results are presented in text or form.

