Universidad Nacional de Río Cuarto

Facultad de Ciencias Exactas, Físico-Químicas y Naturales

Departamento de Computación

CREER...CREAR...CRECER

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jTLC

Java Thin Layer Chromatography

User Manual

Río Cuarto, 2016

Índice general

Capítulo 1

Introduction

1.1.   Previous Requirements

the minimum requirements to run properly the application are:

→ Operative System: Mac OS X, Windows (XP or newer), Linux, Solaris. 32 or 64 bits architectures.
→ Software: Java 8 (mandatory requirement).
→ CPU: AMD or Intel > 1Ghz.
→ Memory: At least 512Mb availables.
→ Graphics Card: AMD/ATI Radeon 9500, NVIDIA GeForce 5 FX, Intel GMA 4500, or better.
→ Screen: minimun resolution 1024x768

1.2.   Application Run

To run the application it's necessary have installed at least the version 8 of the *Java Virtual Machine* (*http://www.java.com/en/download/*).
According to the Operative System installed, can run the application directly from the file explorer or through the system console writing:
java -jar jtlc.jar over the application folder. When the application start a new file (*jtlc.settings.props*) is created to store the current settings. In picture 1.1 is detailed the application main window.
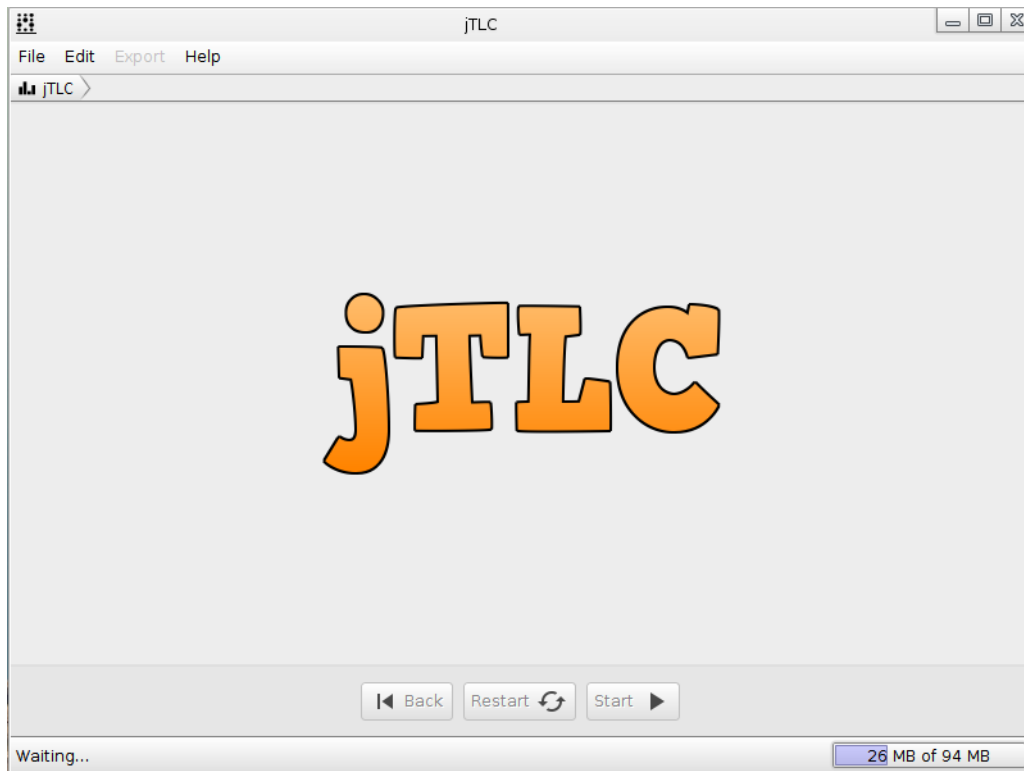

Figura 1.1: Application initial screen.

1.3. Application Settings

The application settings allows to the user change the system language, projects workspace and enable or disable animations (like screen transition between each analysis screen). To access the settings screen go to *Edit* → *Change settings* on the main menu bar. In the settings screen use *Directory Selector* to change current workspace, the language select to change the application languge, move the animations switch to enable or disable animations. To save current settings click on the button Accept or press *Enter* key from your keyboard. to discard the current settings click on the button Cancel or press *Esc* key.
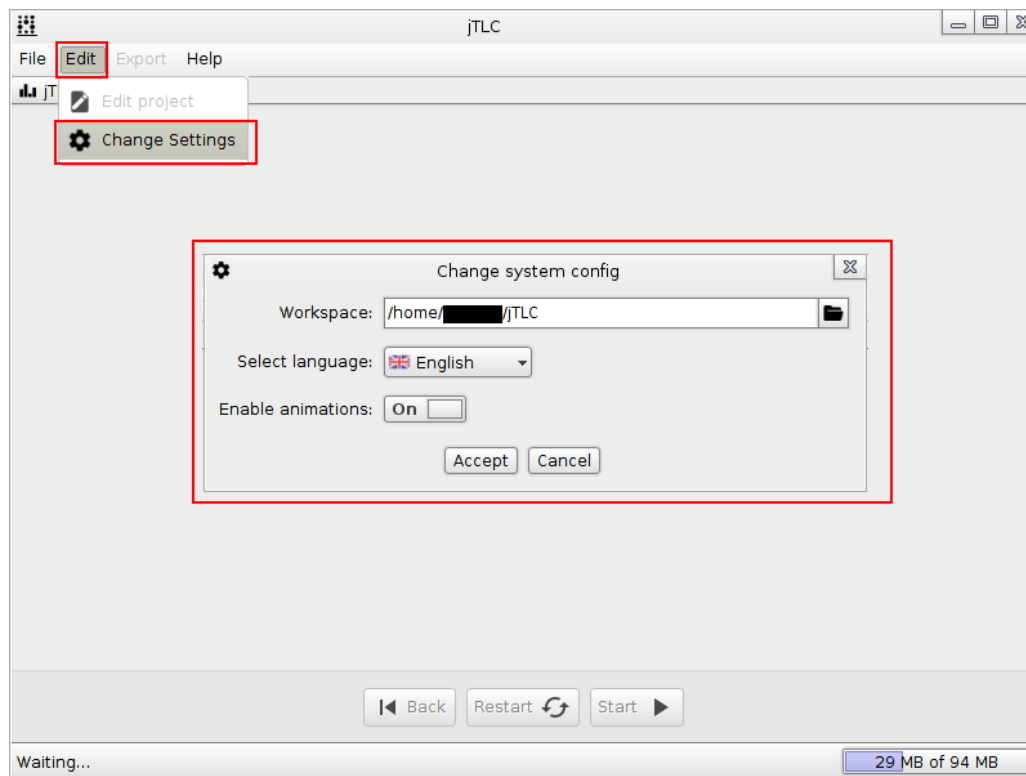

Figura 1.2: Application settings.

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Capítulo 2

Projects

Start new project
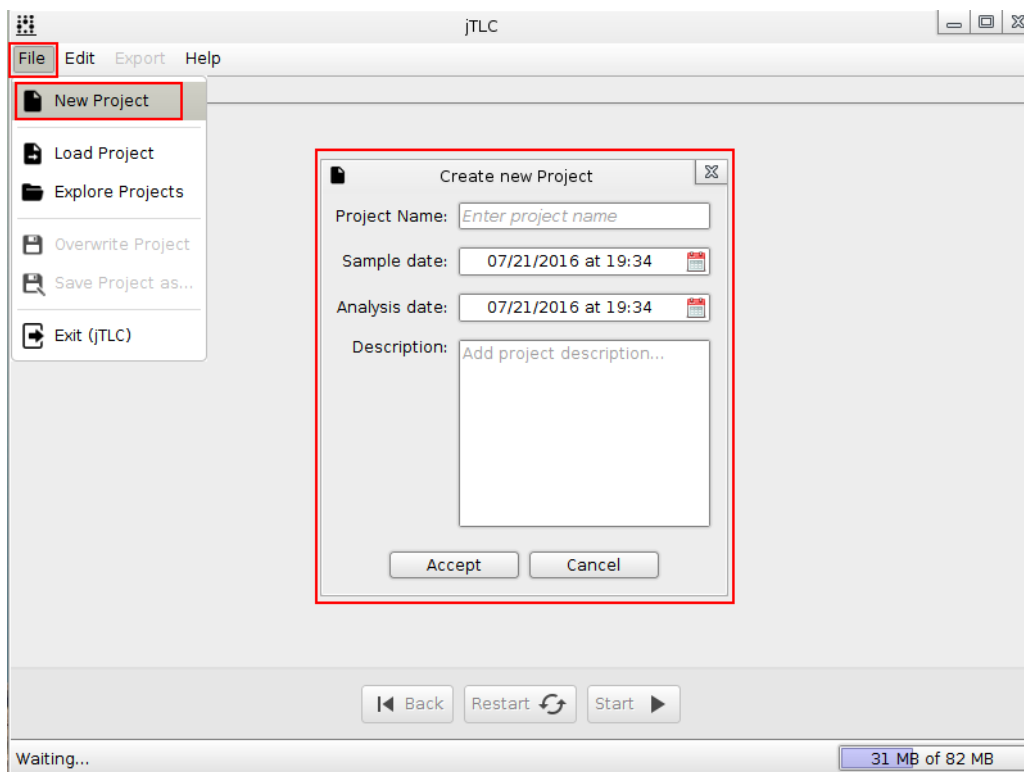
To start new project...

Figura 2.1: New project menu.

2.1. Load existent project
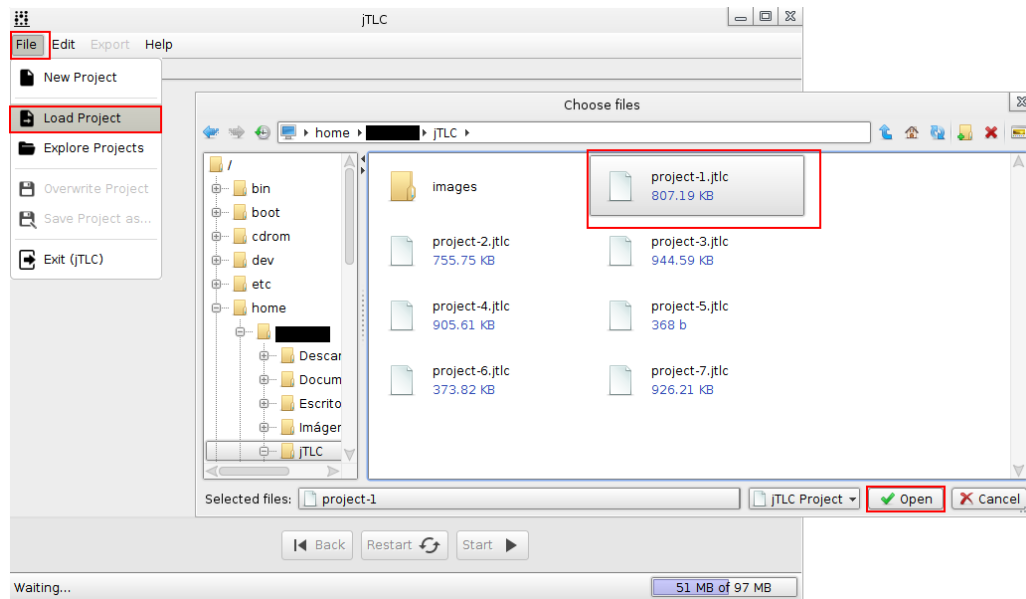
To load a previous project...

Figura 2.2: New project menu.

2.2. Explore projects
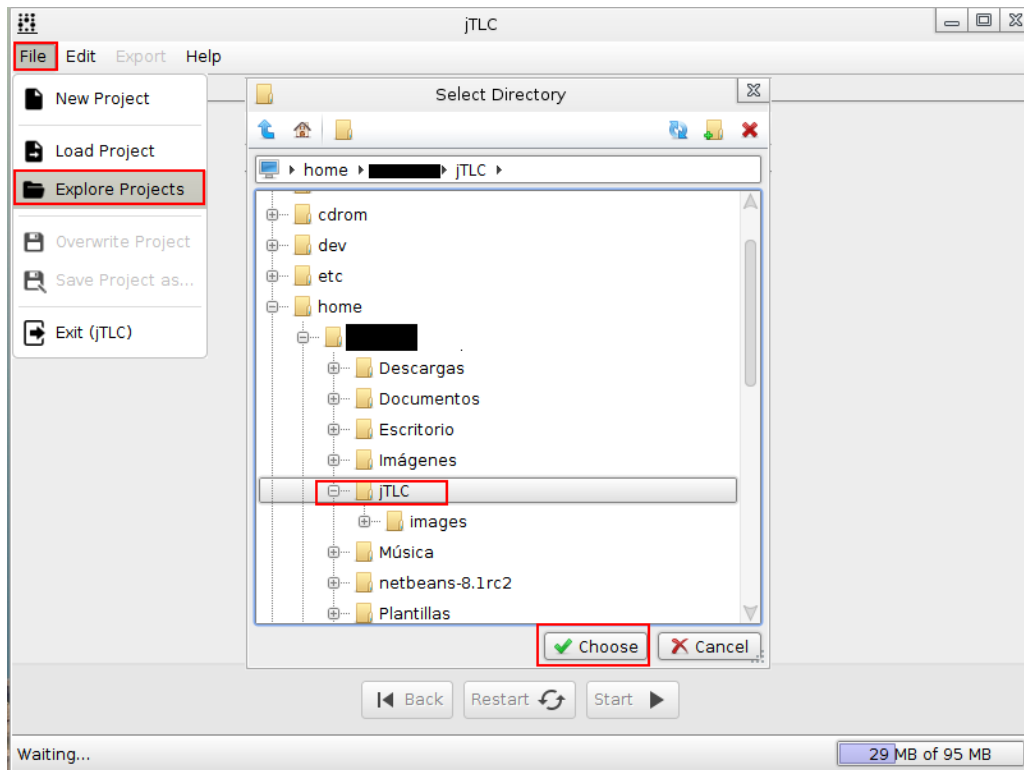
To explore old projects...
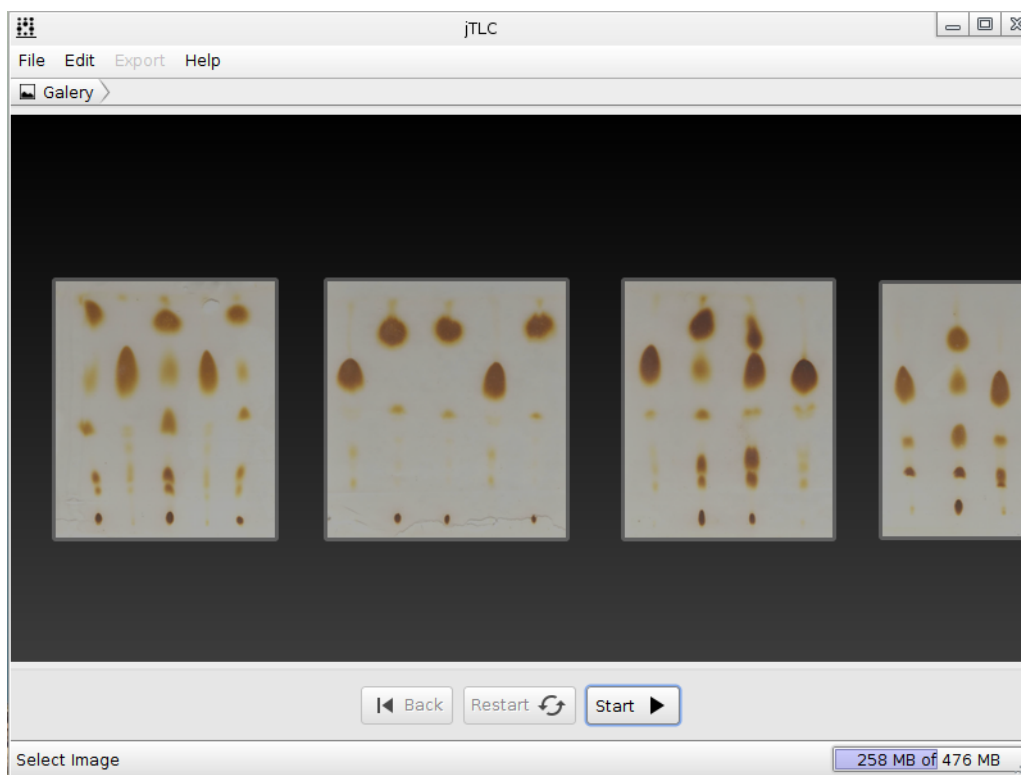

Figura 2.3: Explore projects.

Figura 2.4: Projects gallery.

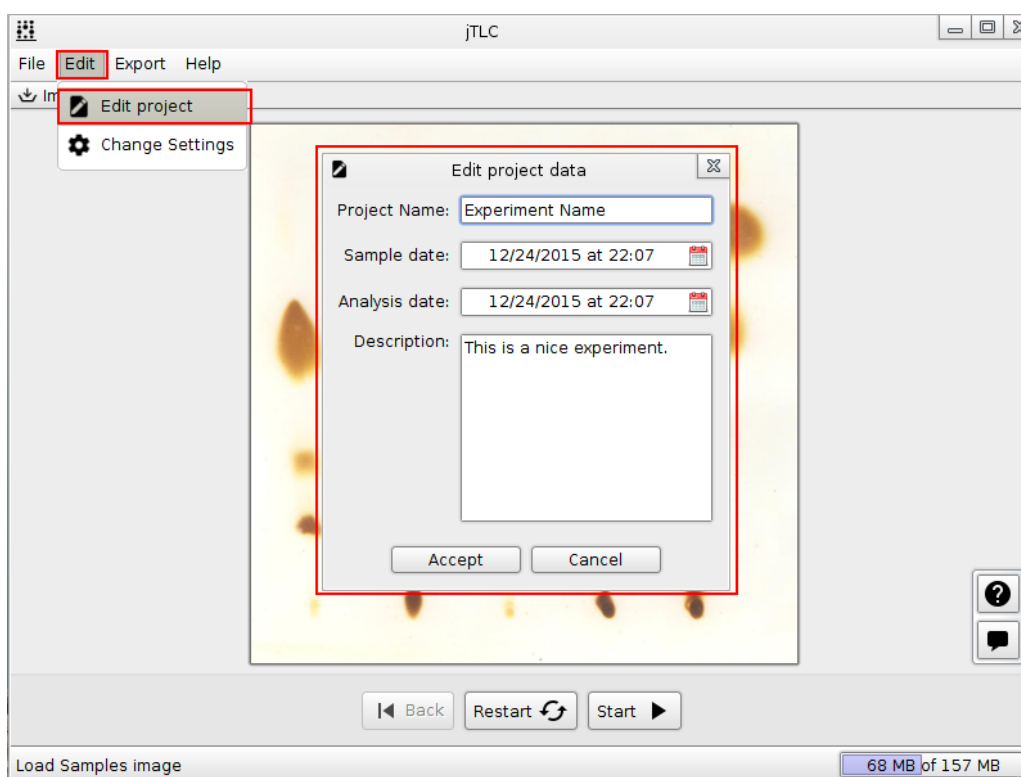## 2.3. Edit Project

To edit a project...

Figura 2.5: Edit project data.

2.4. Save Project

To save current project...

Capítulo 3
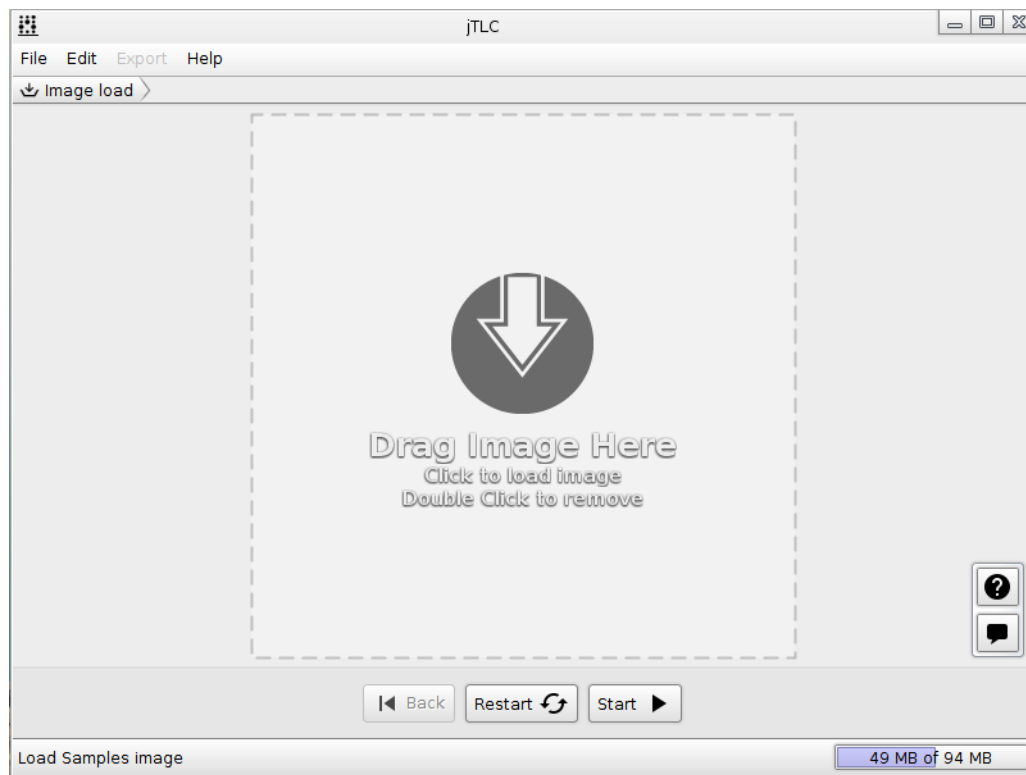
Samples Analysis

3.1. Image Load

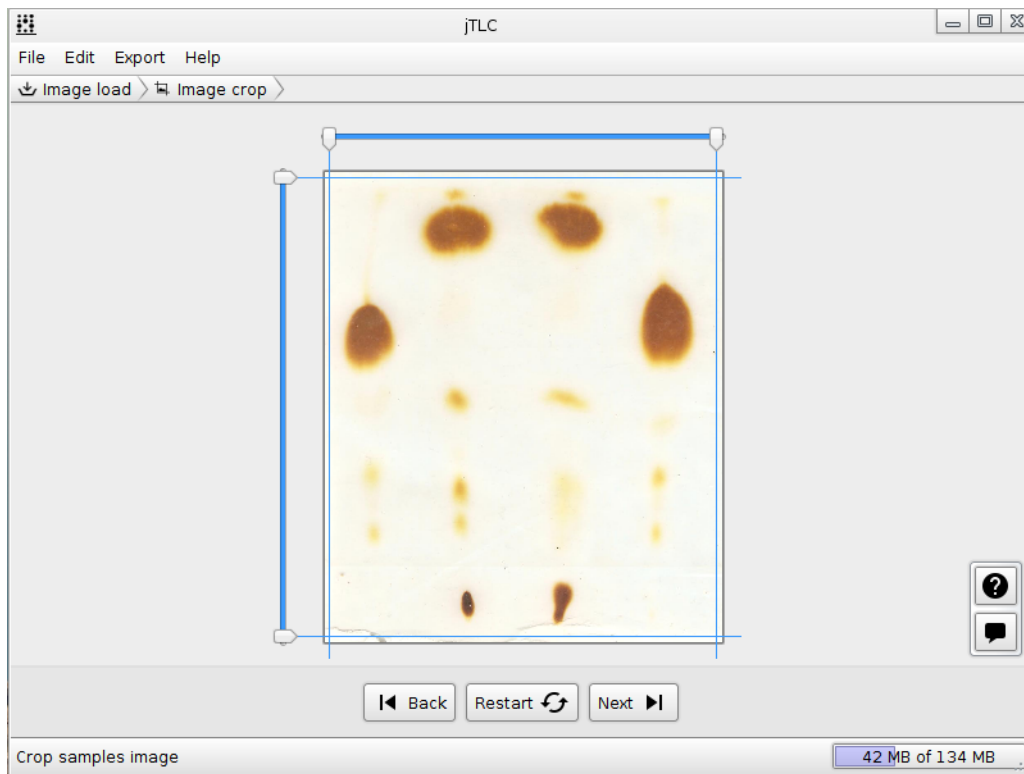Figura 3.1: Load experiment image.

3.2. Image Crop

Figura 3.2: Crop samples image.
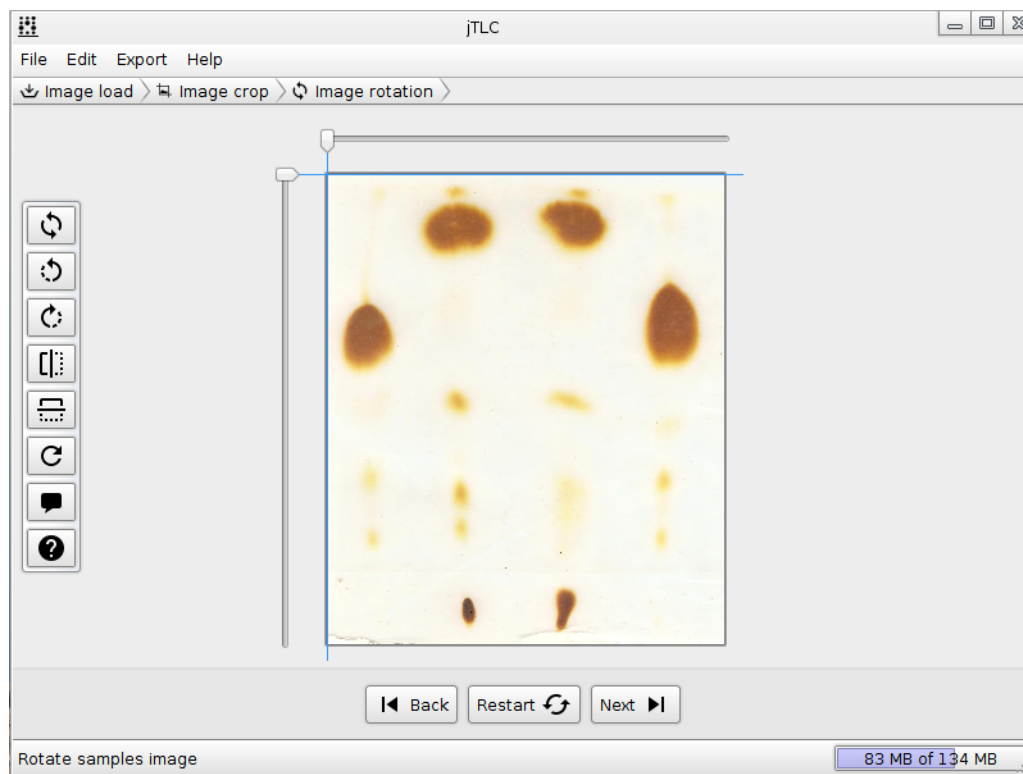
3.3. Image Rotation

Figura 3.3: Rotate and flip samples image.
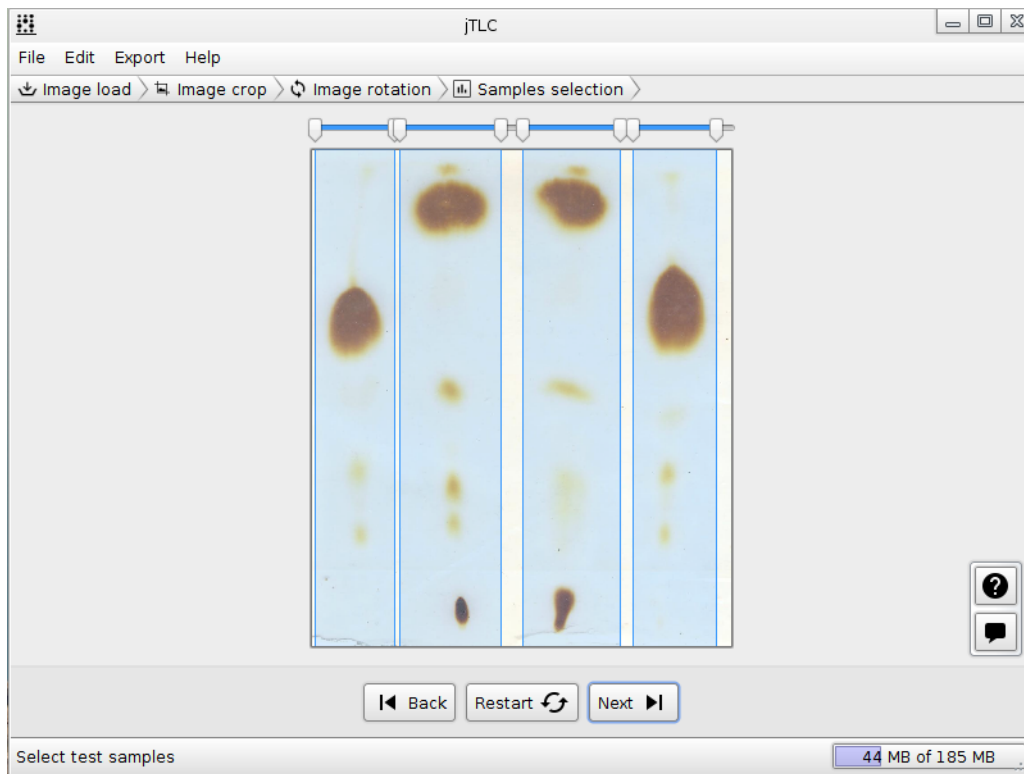
3.4. Samples Selection

Figura 3.4: Individual samples selection.
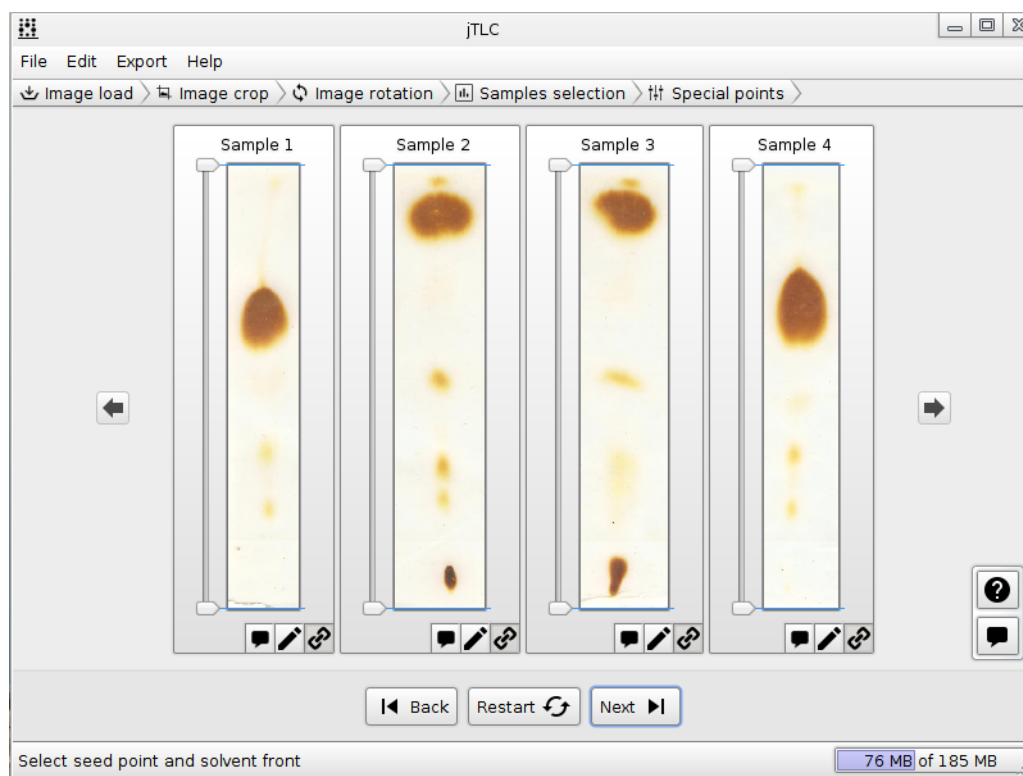
3.5.   Samples Special Points

Figura 3.5: Samples data and special points selection.
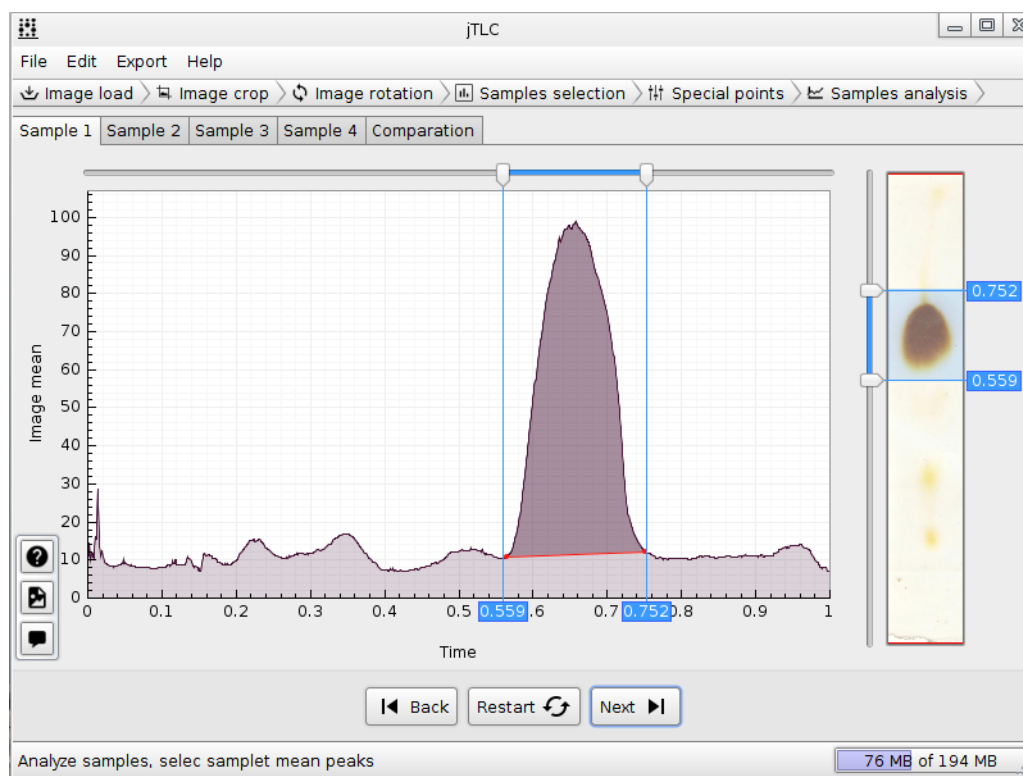
3.6. Samples Peaks Selection

Figura 3.6: Individual samples peaks selection.
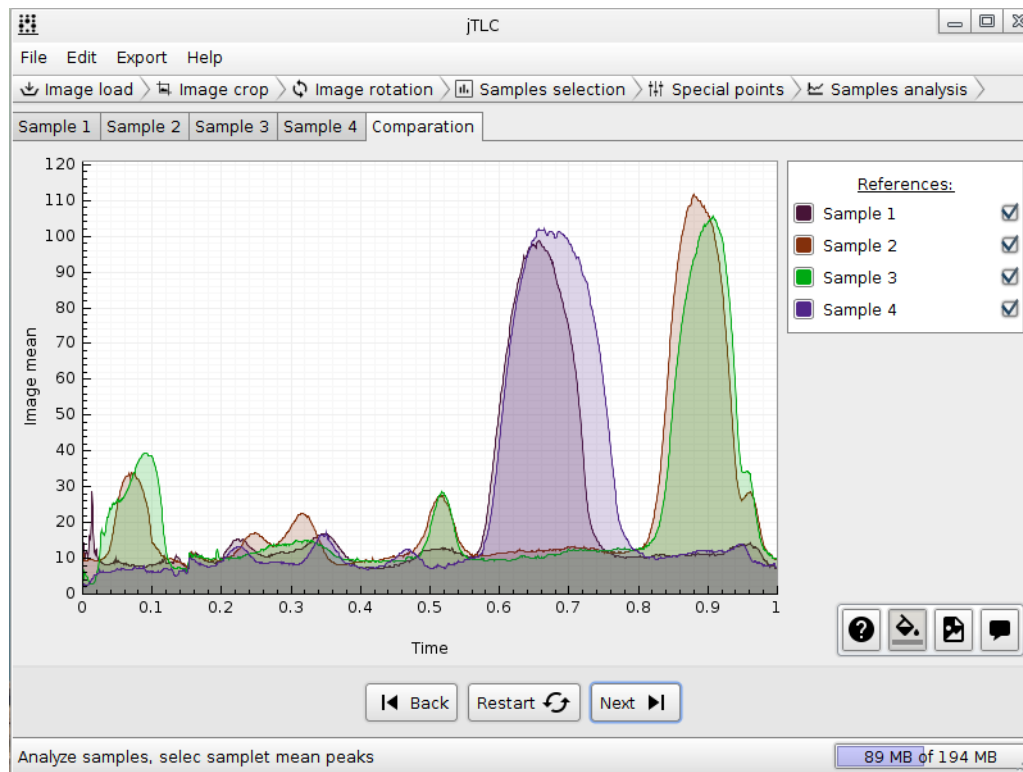
3.7. Samples Comparation

Figura 3.7: Experiment samples mean comparation.
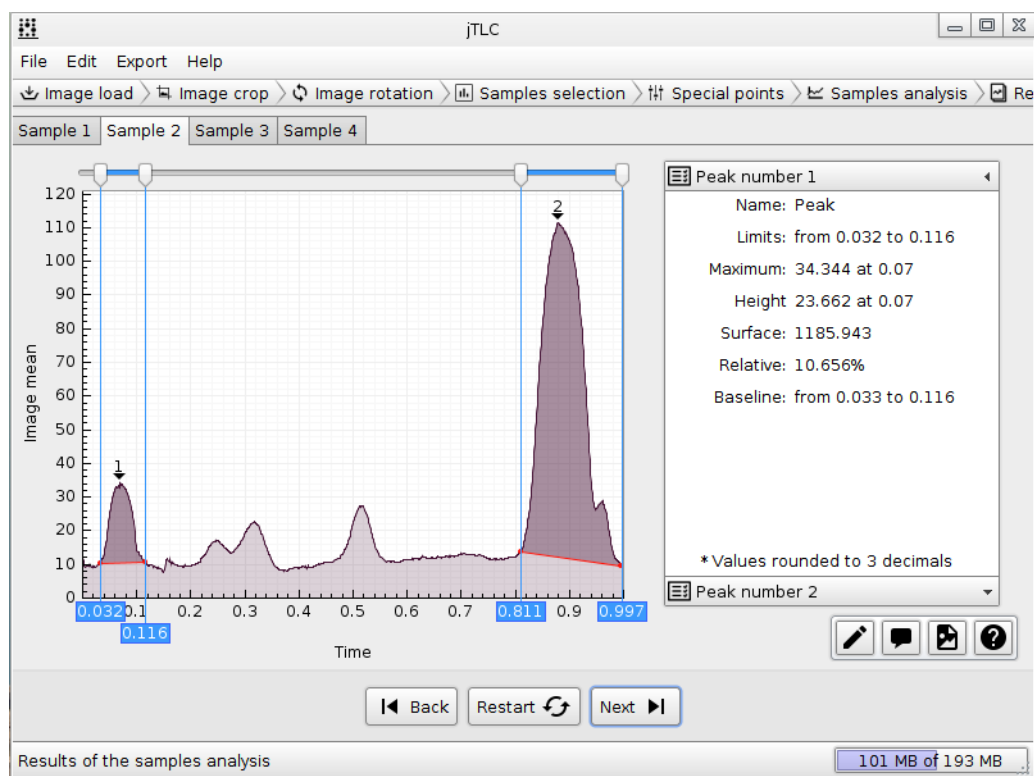
3.8. Analysis Results

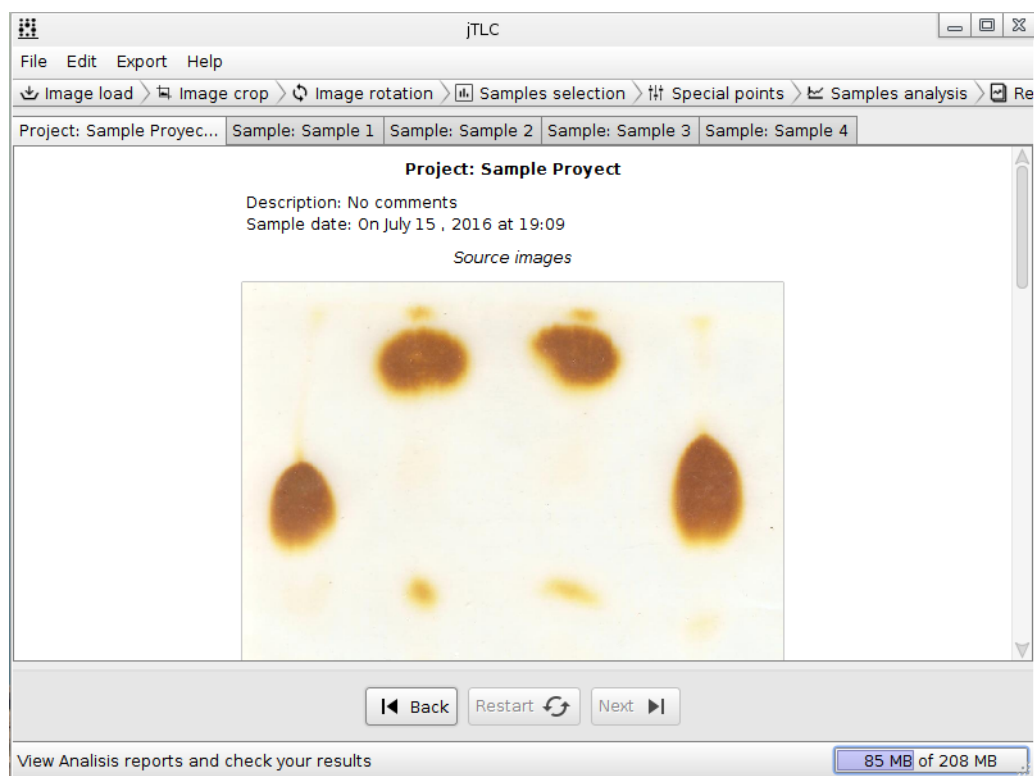Figura 3.8: Samples peaks analysis results.

3.9.   Analysis Reports

Figura 3.9: Samples analysis reports.

Capítulo 4

Data Export

4.1.   Export images

To export project data...

4.2.   Export reports

To export project data...

4.3.   Export data

4.3.1.   Export mean

To export project data...

4.3.2.   Export plain data

To export project data...