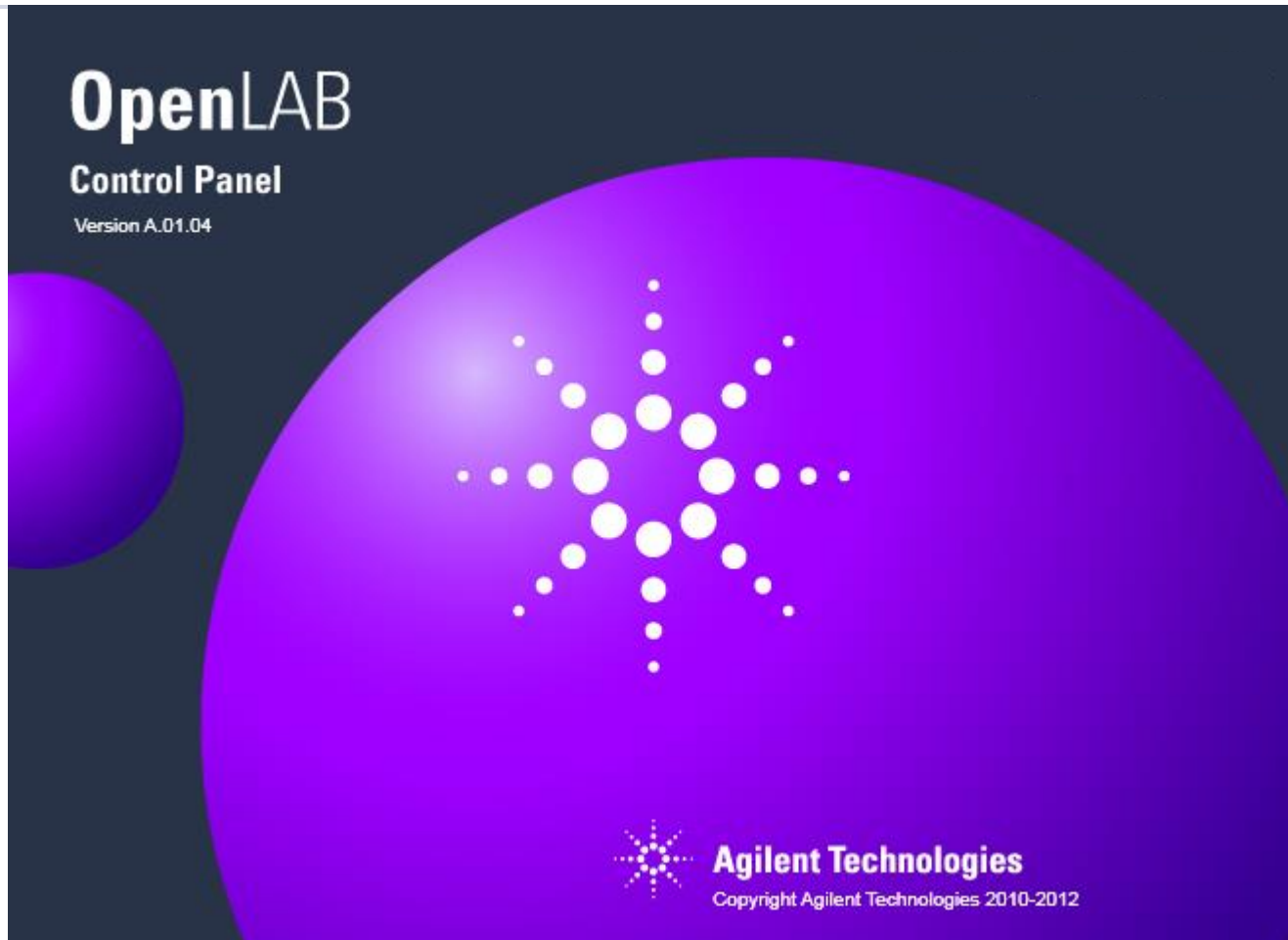
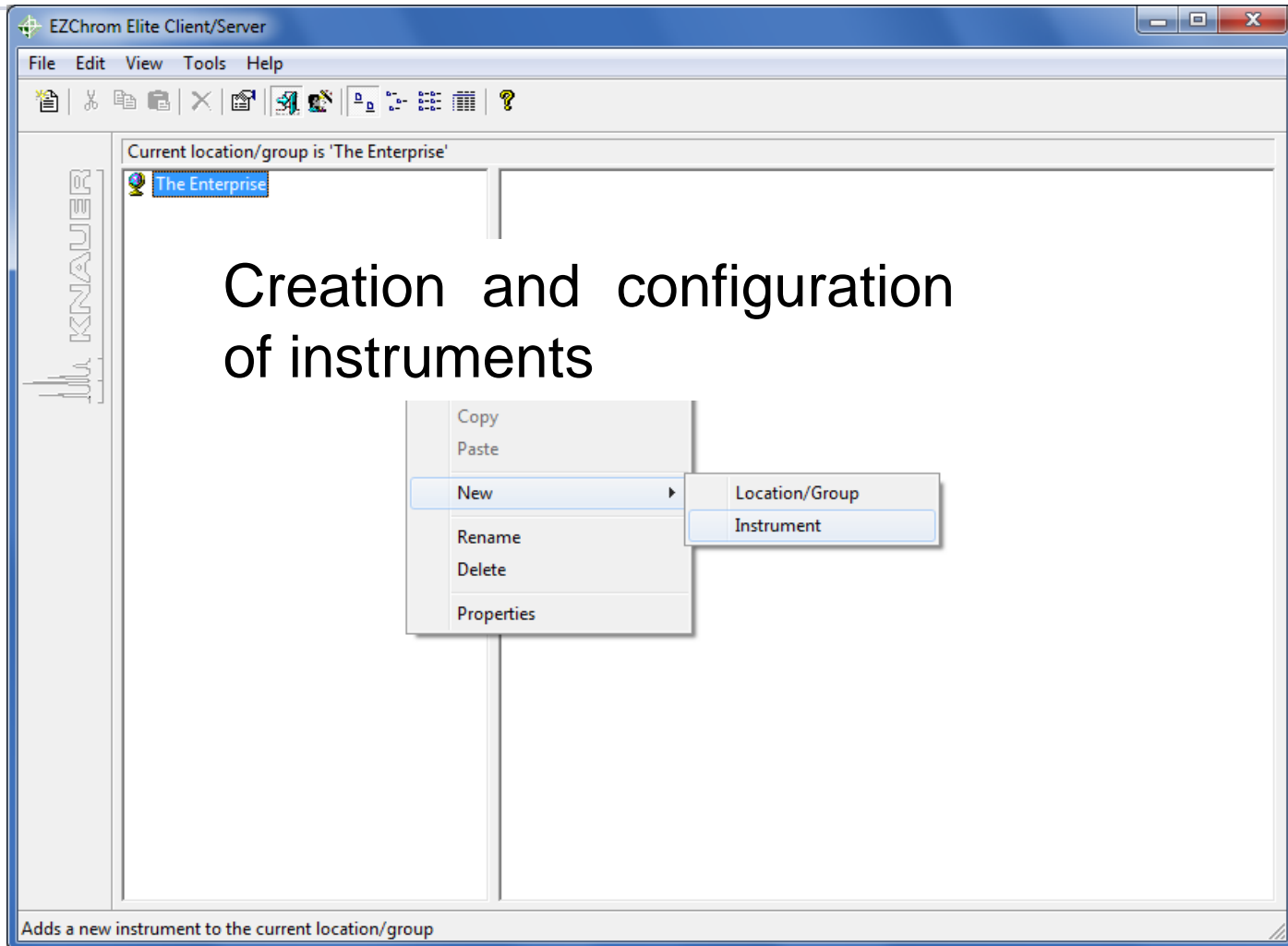


# Introduction OpenLAB – Control Panel



# This is how it works with ChromGate

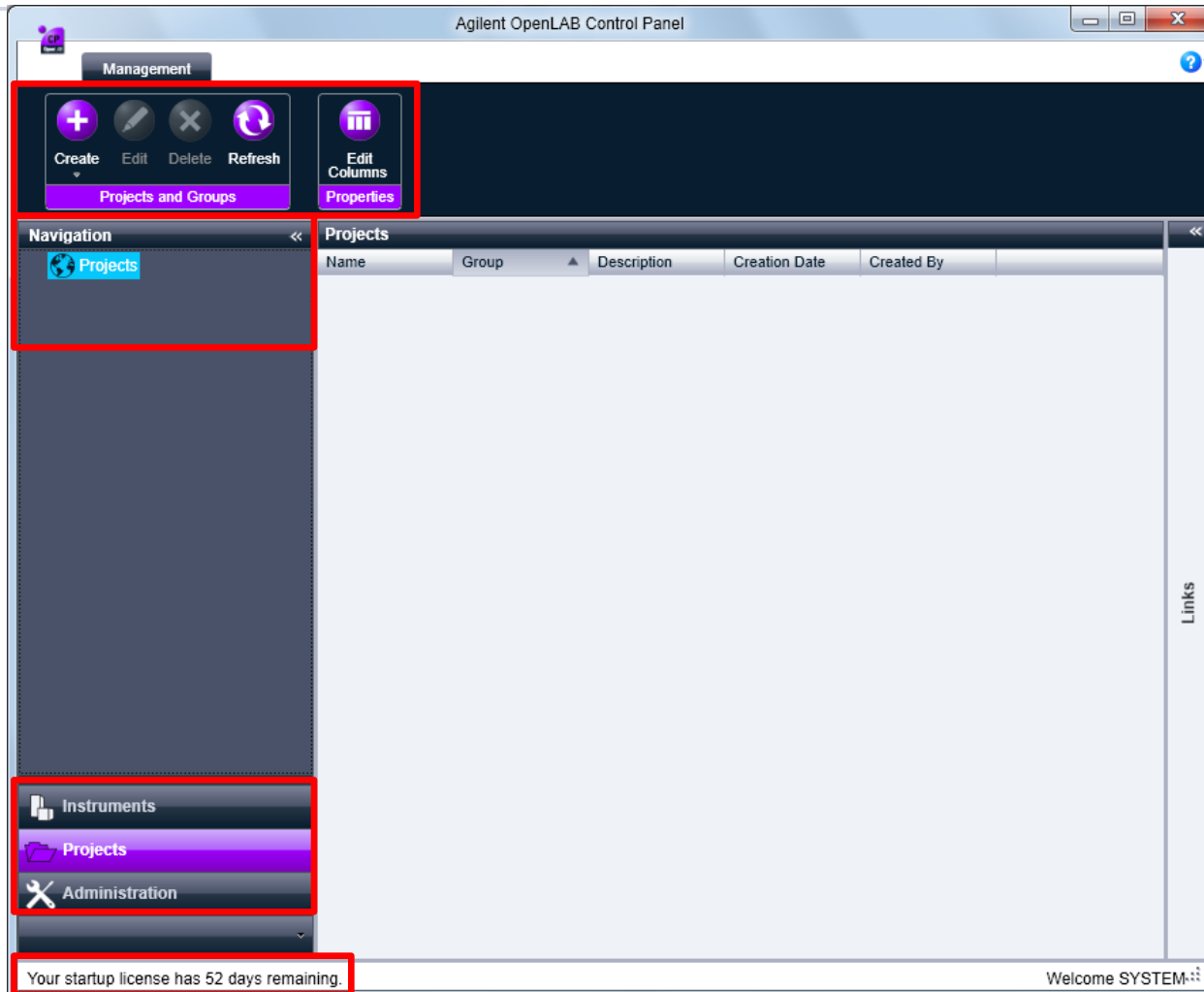


## OpenLAB Control Panel (1)

---

- ▶ The control panel displaces the EZChrom Main Window as the administration surface
  - Creation of projects, users, instruments
  - Configuration of instruments
  - Integration of licenses
  - Integration of printers
  - Display of System Activity Log

# OpenLAB Control Panel (2)

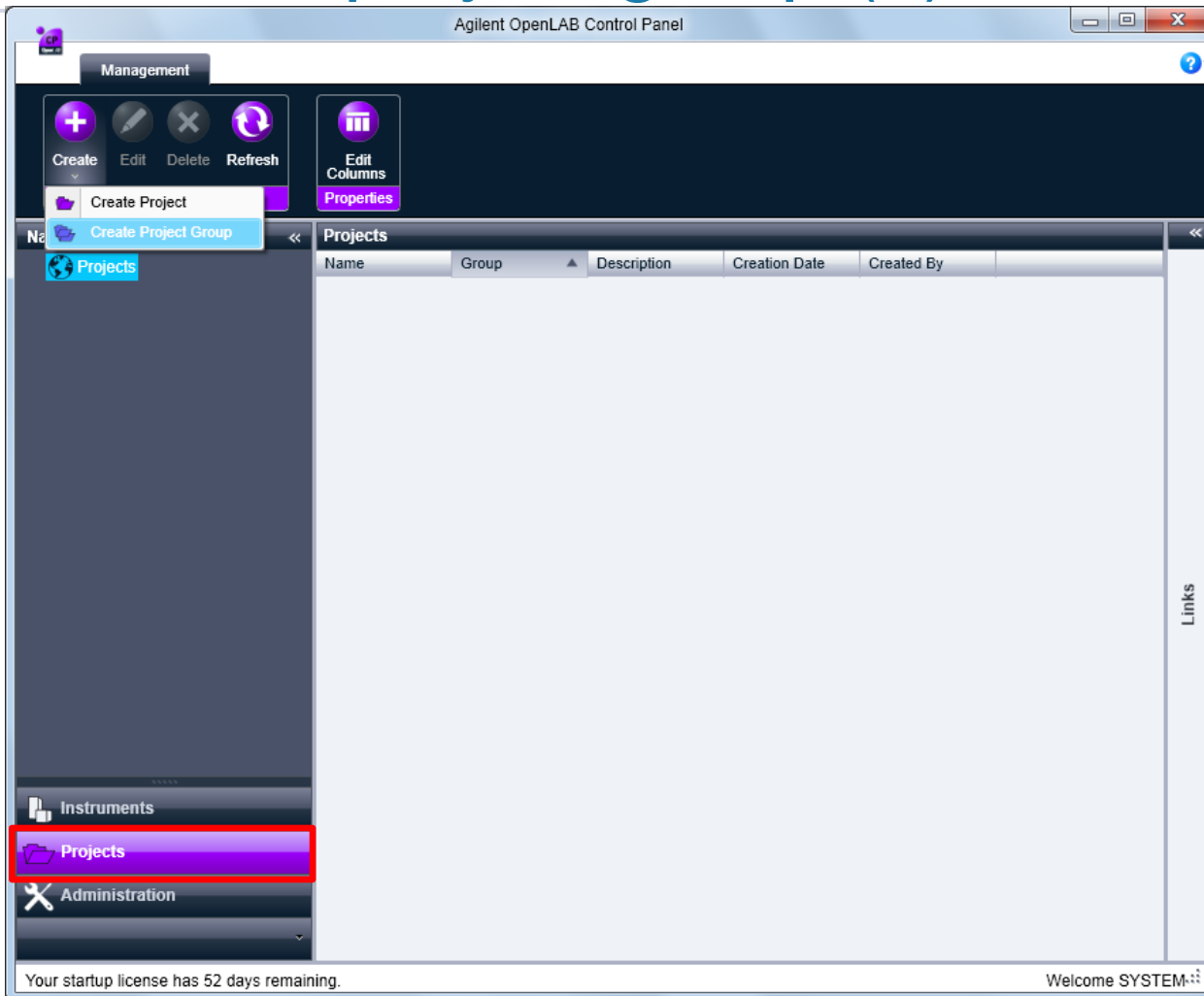


The screenshot shows the Agilent OpenLAB Control Panel interface. The window title is "Agilent OpenLAB Control Panel". The interface is divided into several sections:

- Management:** A top bar containing icons for "Create", "Edit", "Delete", "Refresh", and "Edit Columns". Below these icons are two buttons: "Projects and Groups" and "Properties".
- Navigation:** A sidebar on the left with a "Projects" link highlighted in blue.
- Table:** A table with columns: "Name", "Group", "Description", "Creation Date", and "Created By". The table is currently empty.
- Footer:** A status bar at the bottom left reads "Your startup license has 52 days remaining." and the bottom right reads "Welcome SYSTEM-...".

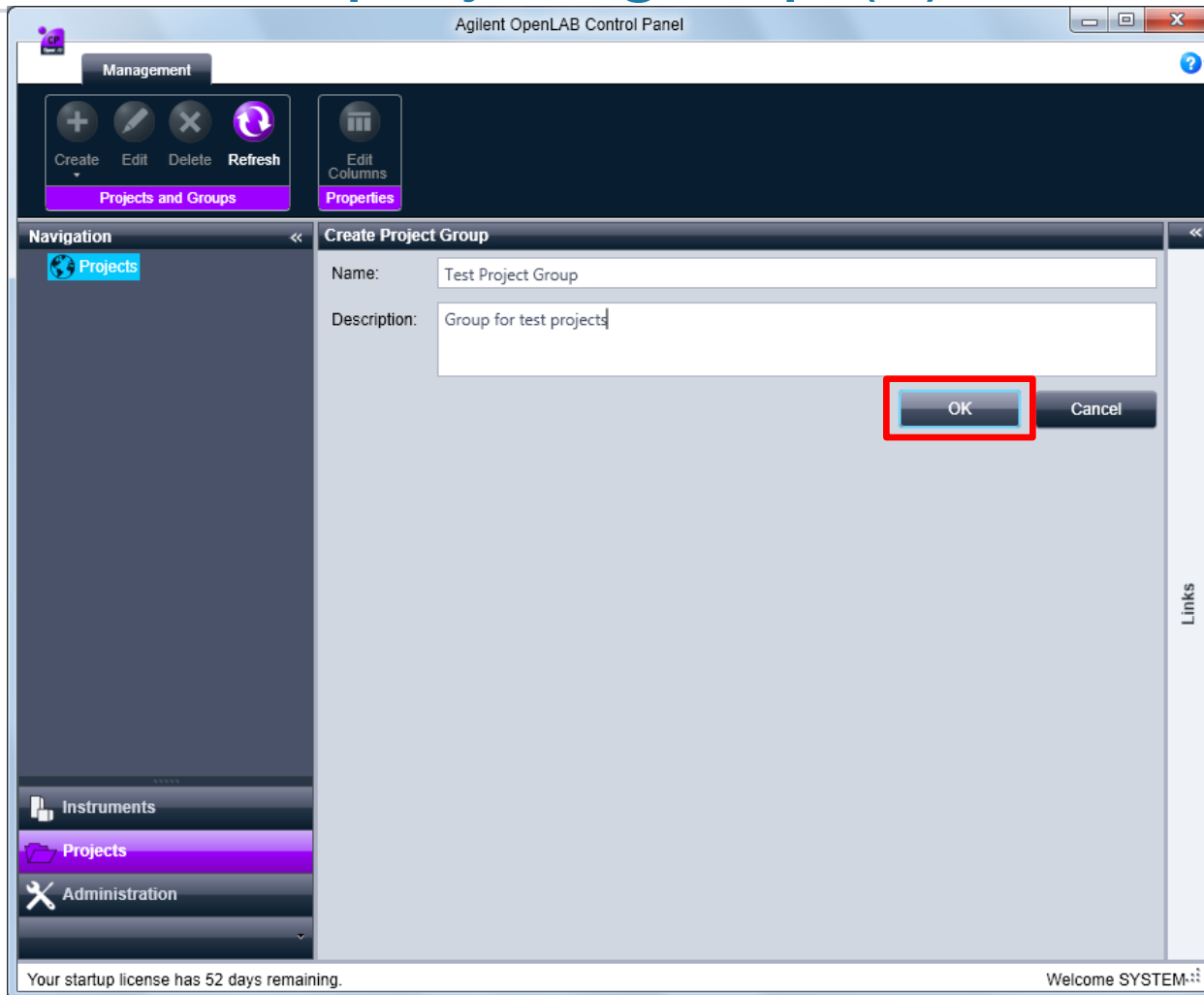
Red boxes highlight the Management section, the Navigation sidebar, the Instruments/Projects/Administration menu, and the license status message.

# Creation of a project group (1)



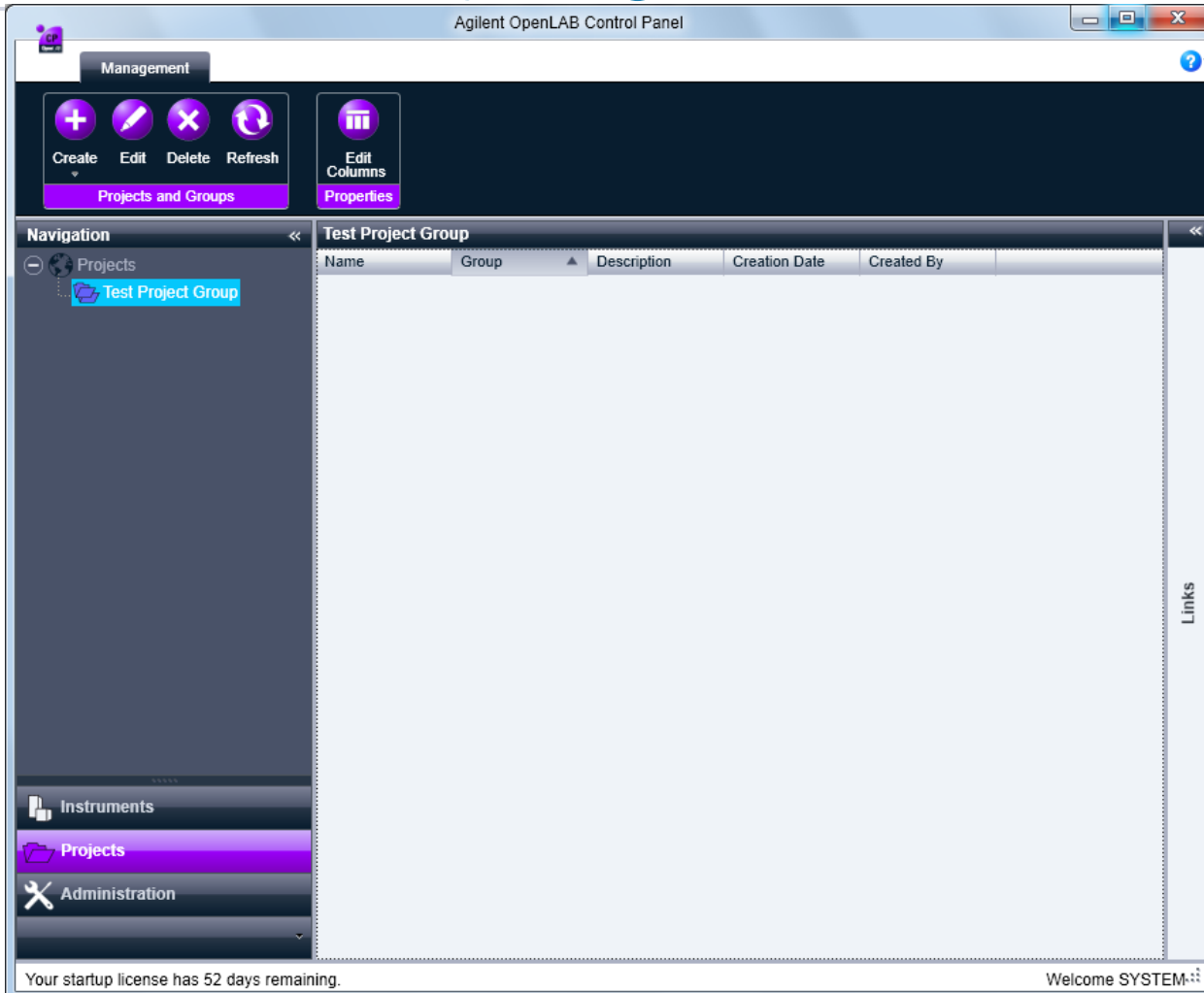
The screenshot shows the Agilent OpenLAB Control Panel interface. The window title is "Agilent OpenLAB Control Panel". The main area is titled "Management" and contains several icons: a plus sign for "Create", a pencil for "Edit", a cross for "Delete", a circular arrow for "Refresh", and a list icon for "Edit Columns". A dropdown menu is open under the "Create" icon, showing "Create Project" and "Create Project Group". The "Create Project Group" option is highlighted. Below the dropdown, there is a "Projects" section with a table header: "Name", "Group", "Description", "Creation Date", and "Created By". The table is currently empty. On the left side, there is a navigation pane with "Instruments", "Projects" (highlighted with a red box), and "Administration". At the bottom, there is a status bar that reads "Your startup license has 52 days remaining." and "Welcome SYSTEM-".

# Creation of a project group (2)



The screenshot shows the 'Agilent OpenLAB Control Panel' window. At the top, there is a 'Management' tab with icons for 'Create', 'Edit', 'Delete', 'Refresh', and 'Edit Columns'. Below this is a 'Navigation' pane on the left with 'Projects' selected. The main area is titled 'Create Project Group' and contains two text input fields: 'Name: Test Project Group' and 'Description: Group for test projects'. At the bottom right of this area are 'OK' and 'Cancel' buttons. The 'OK' button is highlighted with a red rectangle. At the bottom of the window, there is a status bar with the text 'Your startup license has 52 days remaining.' and 'Welcome SYSTEM-...'.

# Creation of a project group (3)



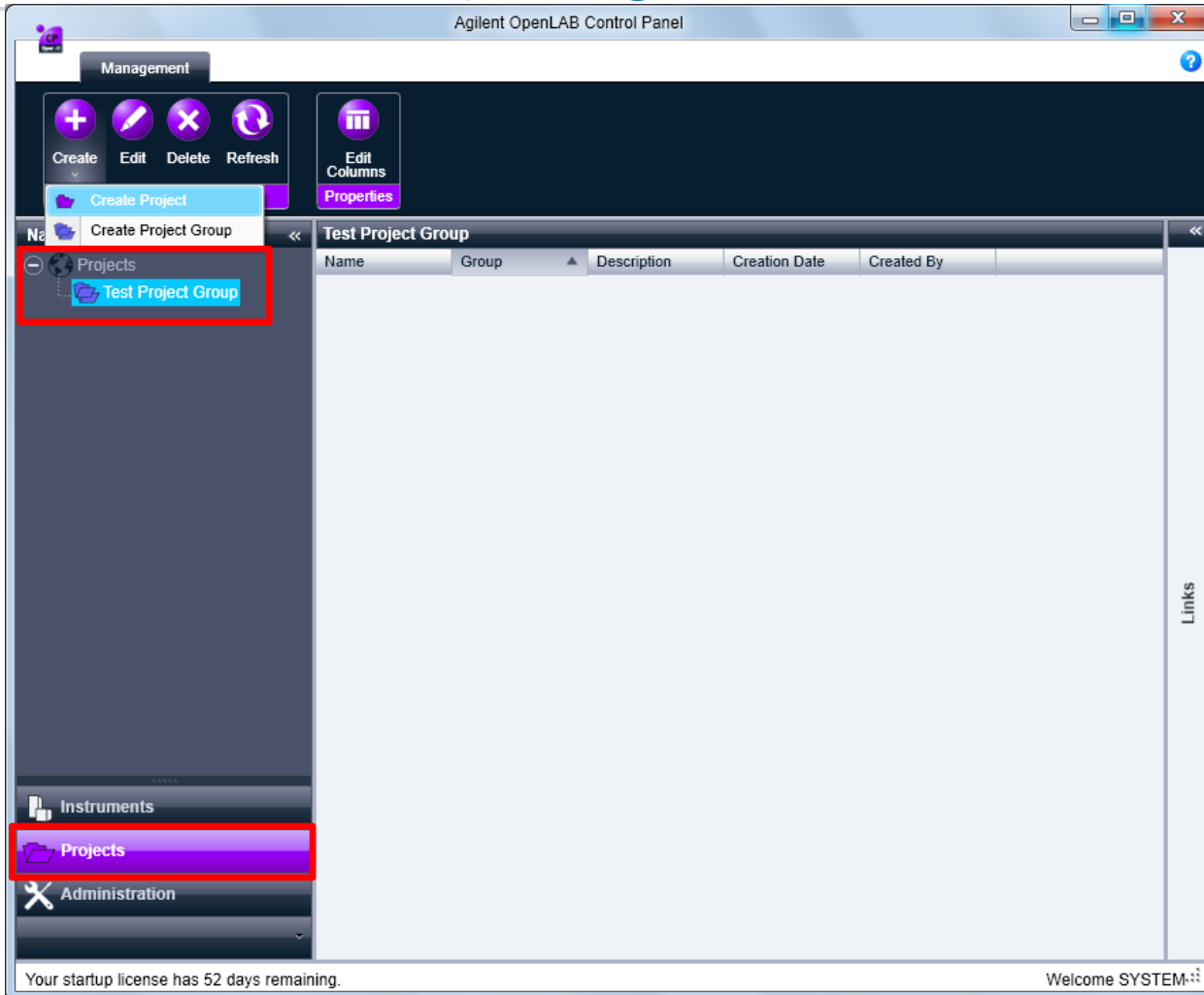
The screenshot displays the Agilent OpenLAB Control Panel interface. At the top, the window title is "Agilent OpenLAB Control Panel". Below the title bar, there is a "Management" section with several icons: a plus sign for "Create", a pencil for "Edit", an X for "Delete", a circular arrow for "Refresh", and a table icon for "Edit Columns". Below these icons are two buttons: "Projects and Groups" and "Properties".

The main area is divided into a "Navigation" pane on the left and a "Test Project Group" pane on the right. The "Navigation" pane shows a tree view with "Projects" expanded, and "Test Project Group" selected. Below the navigation pane are three main menu items: "Instruments", "Projects" (highlighted in purple), and "Administration".

The "Test Project Group" pane contains a table with the following columns: "Name", "Group", "Description", "Creation Date", and "Created By". The table is currently empty. On the right side of this pane, there is a vertical "Links" section.

At the bottom of the interface, there is a status bar with the text "Your startup license has 52 days remaining." on the left and "Welcome SYSTEM-..." on the right.

# Creation of a project group (1)

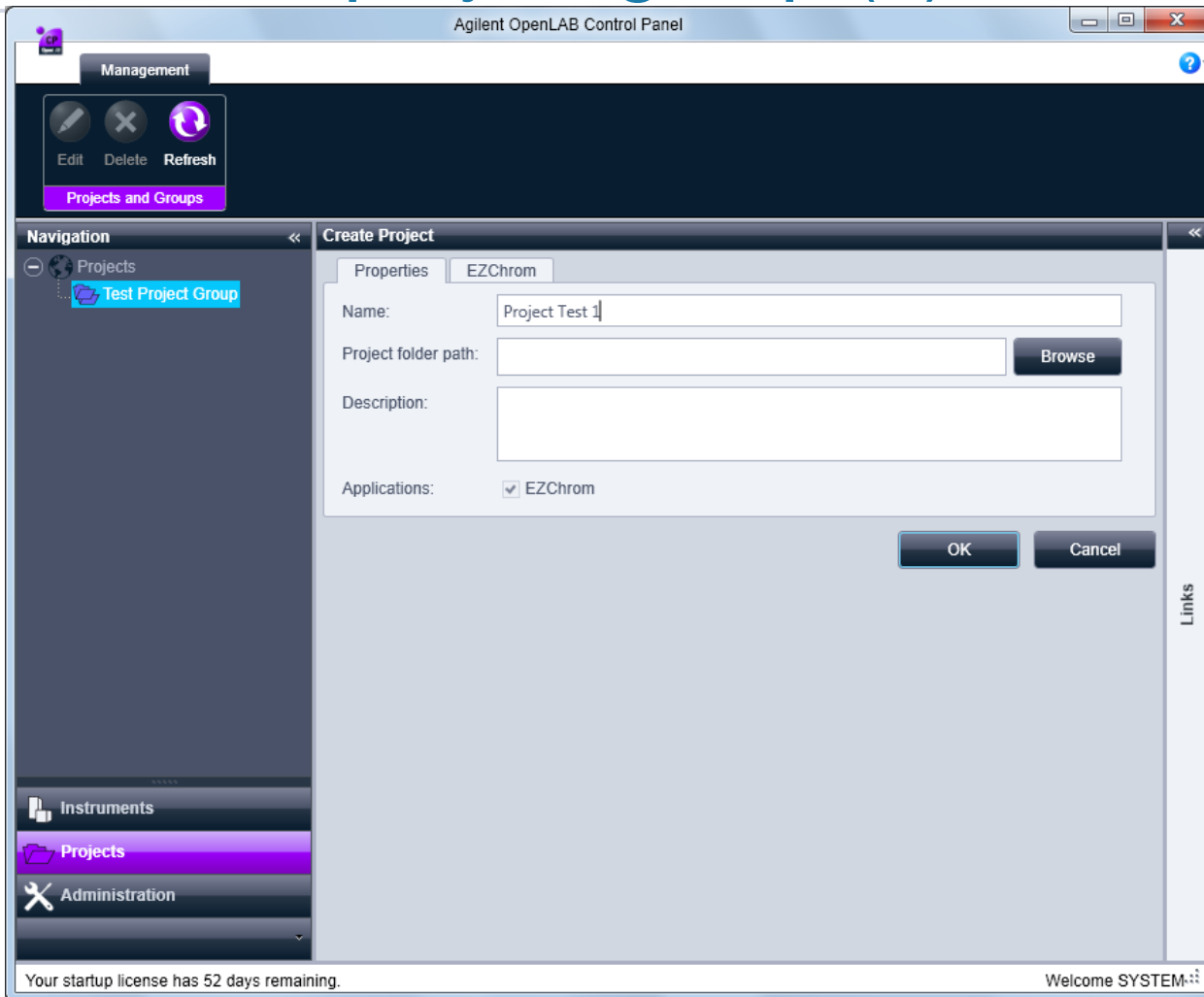


The screenshot displays the Agilent OpenLAB Control Panel interface. The window title is "Agilent OpenLAB Control Panel". The main area is titled "Management" and contains several icons: a plus sign for "Create", a pencil for "Edit", an X for "Delete", a refresh symbol for "Refresh", and a list icon for "Edit Columns". A "Properties" button is also visible. A dropdown menu is open under "Create", showing "Create Project" and "Create Project Group". The "Create Project Group" option is highlighted with a red box. Below this, a "Projects" section is visible, containing a folder icon and the text "Test Project Group", also highlighted with a red box. At the bottom left, a navigation pane shows "Instruments", "Projects" (highlighted with a red box), and "Administration". The main content area shows a table with columns: "Name", "Group", "Description", "Creation Date", and "Created By". The table is currently empty. At the bottom of the window, a status bar displays "Your startup license has 52 days remaining." and "Welcome SYSTEM-".

Name	Group	Description	Creation Date	Created By
------	-------	-------------	---------------	------------



# Creation of a project group (2)

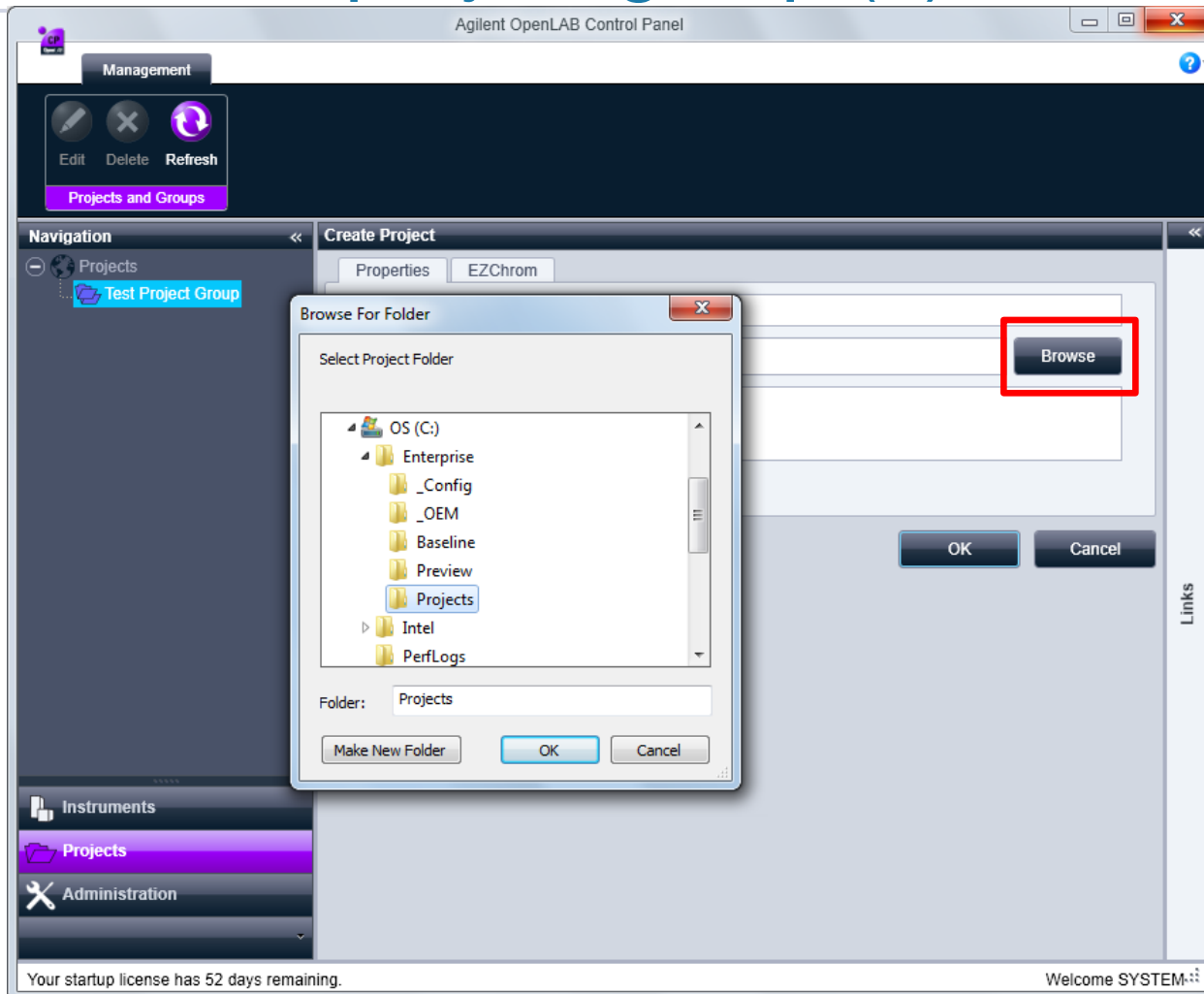


The screenshot shows the 'Agilent OpenLAB Control Panel' window. At the top, there is a 'Management' bar with 'Edit', 'Delete', and 'Refresh' icons. Below it is a 'Projects and Groups' section. The main area is split into a 'Navigation' pane on the left and a 'Create Project' dialog on the right. The 'Navigation' pane shows a tree view with 'Projects' expanded to 'Test Project Group'. The 'Create Project' dialog has tabs for 'Properties' and 'EZChrom'. It contains the following fields and controls:

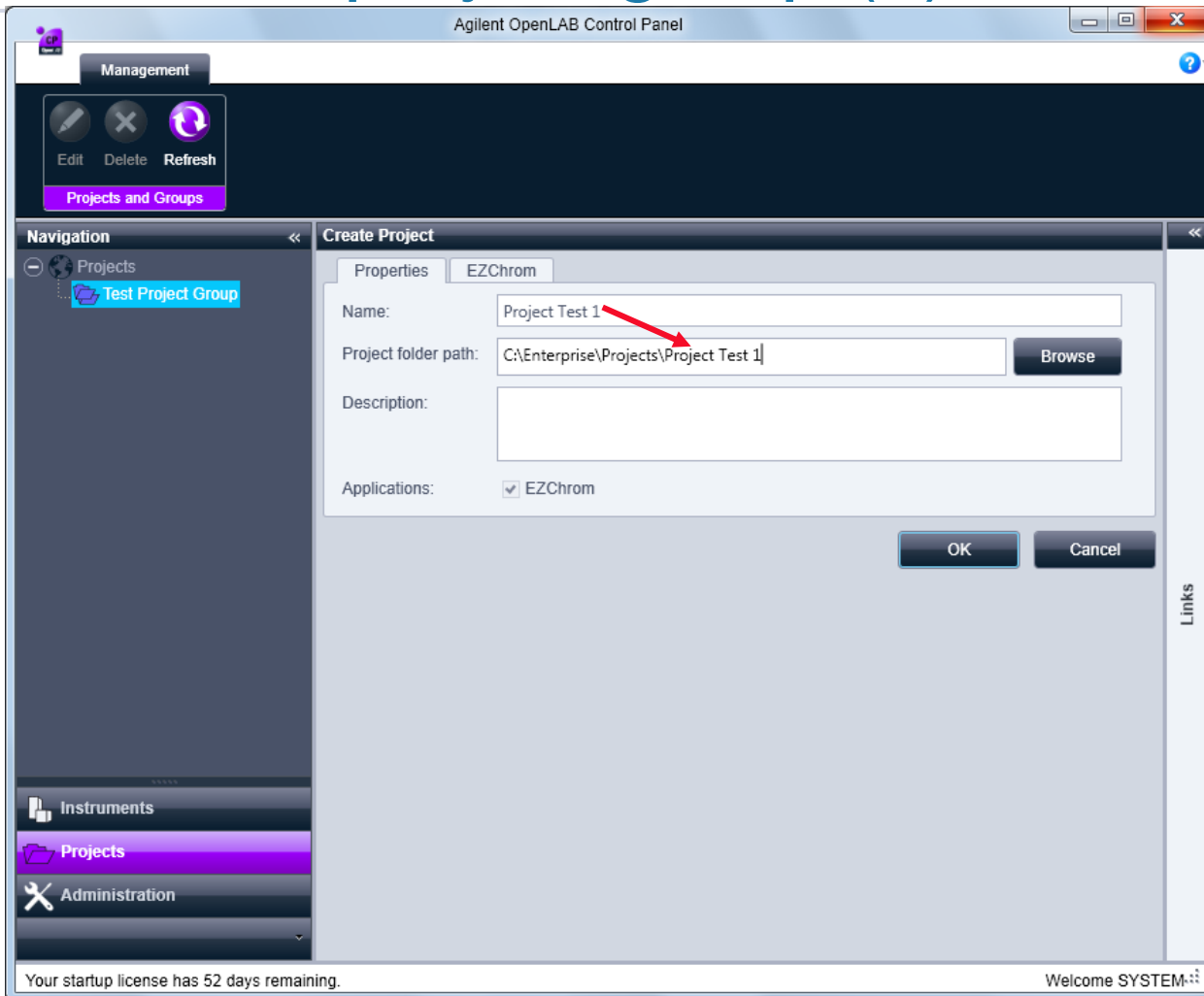
- Name:** Project Test 1
- Project folder path:** [Empty text box] with a 'Browse' button.
- Description:** [Empty text box]
- Applications:**  EZChrom

At the bottom right of the dialog are 'OK' and 'Cancel' buttons. A 'Links' sidebar is visible on the far right. At the bottom of the window, a status bar reads: 'Your startup license has 52 days remaining.' and 'Welcome SYSTEM...'.

# Creation of a project group (3)



# Creation of a project group (4)

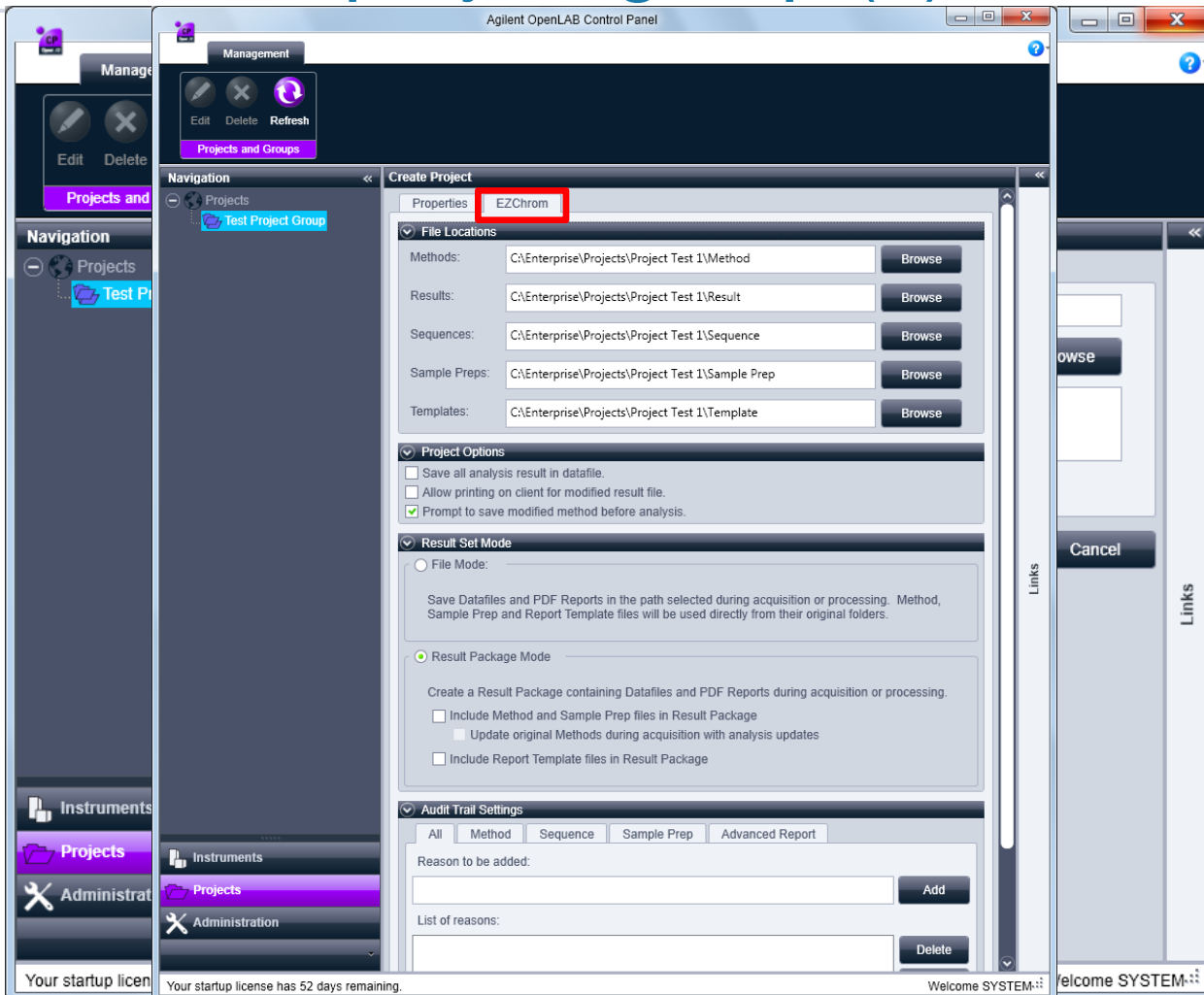


The screenshot shows the 'Agilent OpenLAB Control Panel' window. The 'Management' tab is active, showing 'Edit', 'Delete', and 'Refresh' buttons. Below this is the 'Projects and Groups' section. The 'Navigation' pane on the left shows a tree view with 'Projects' expanded and 'Test Project Group' selected. The main area is the 'Create Project' dialog box, which has two tabs: 'Properties' and 'EZChrom'. The 'Properties' tab is active, showing the following fields:

- Name: Project Test 1
- Project folder path: C:\Enterprise\Projects\Project Test 1 (with a 'Browse' button to the right)
- Description: (empty text box)
- Applications:  EZChrom

At the bottom of the dialog are 'OK' and 'Cancel' buttons. A red arrow points to the 'Project folder path' field. The status bar at the bottom of the window displays 'Your startup license has 52 days remaining.' and 'Welcome SYSTEM...'.

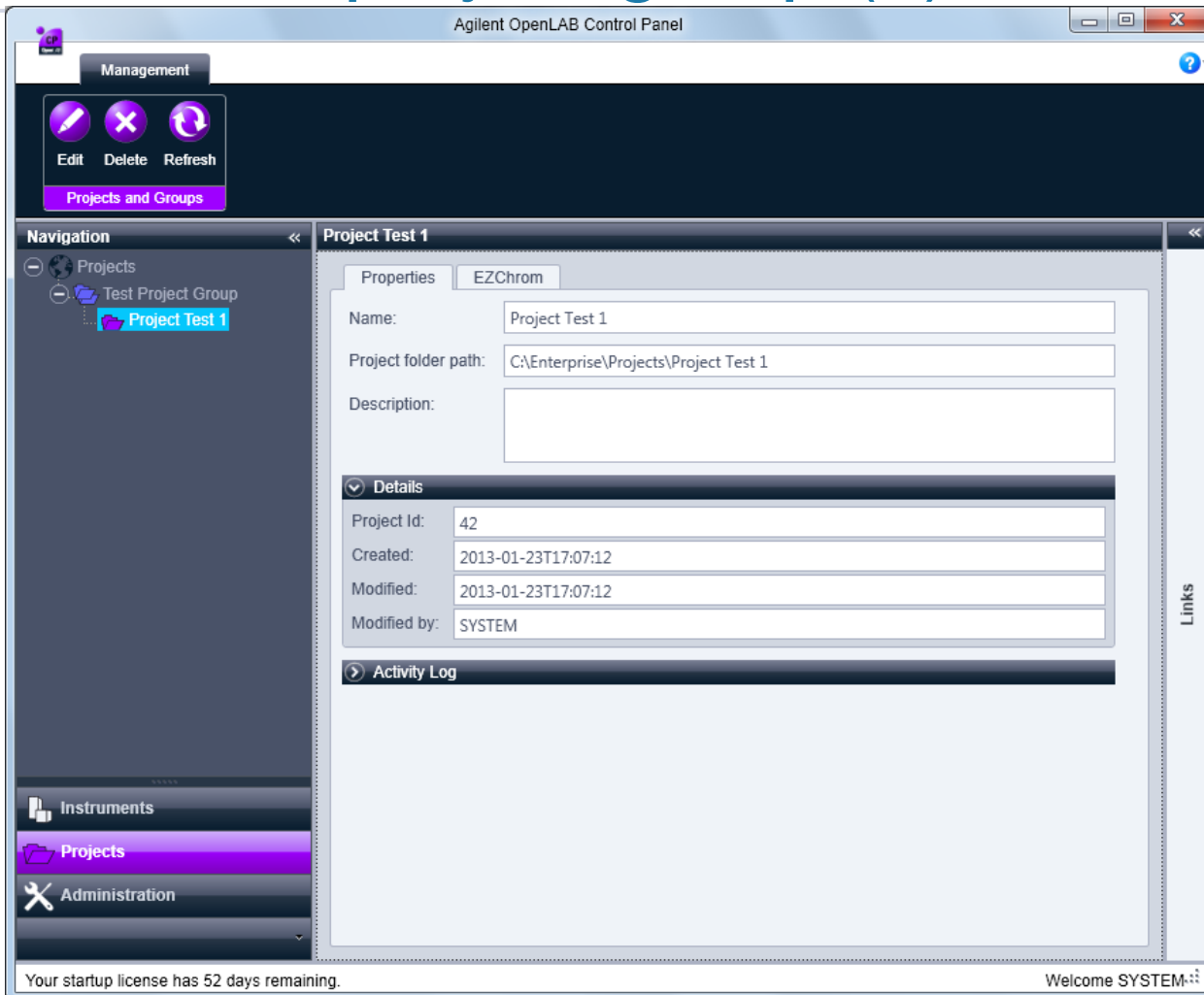
# Creation of a project group (5)



The screenshot displays the 'Create Project' dialog in the Agilent OpenLAB Control Panel. The 'EZChrom' property is highlighted with a red box. The dialog is divided into several sections:

- Properties:** EZChrom
- File Locations:**
  - Methods: C:\Enterprise\Projects\Project Test 1\Method
  - Results: C:\Enterprise\Projects\Project Test 1\Result
  - Sequences: C:\Enterprise\Projects\Project Test 1\Sequence
  - Sample Preps: C:\Enterprise\Projects\Project Test 1\Sample Prep
  - Templates: C:\Enterprise\Projects\Project Test 1\Template
- Project Options:**
  - Save all analysis result in datafile.
  - Allow printing on client for modified result file.
  - Prompt to save modified method before analysis.
- Result Set Mode:**
  - File Mode
  - Result Package Mode
    - Include Method and Sample Prep files in Result Package
    - Update original Methods during acquisition with analysis updates
    - Include Report Template files in Result Package
- Audit Trail Settings:**
  - Buttons: All, Method, Sequence, Sample Prep, Advanced Report
  - Reason to be added: [Text field] [Add]
  - List of reasons: [Text field] [Delete]

# Creation of a project group (6)



The screenshot displays the Agilent OpenLAB Control Panel interface. At the top, the window title is "Agilent OpenLAB Control Panel". Below the title bar, there is a "Management" section with three icons: a pencil for "Edit", a red X for "Delete", and a circular arrow for "Refresh". A purple bar below these icons is labeled "Projects and Groups".

The main interface is divided into two main sections. On the left is a "Navigation" pane with a tree view showing "Projects" > "Test Project Group" > "Project Test 1". On the right is the "Project Test 1" configuration area, which has tabs for "Properties" and "EZChrom".

The "Properties" tab contains the following fields:

- Name: Project Test 1
- Project folder path: C:\Enterprise\Projects\Project Test 1
- Description: (empty text area)

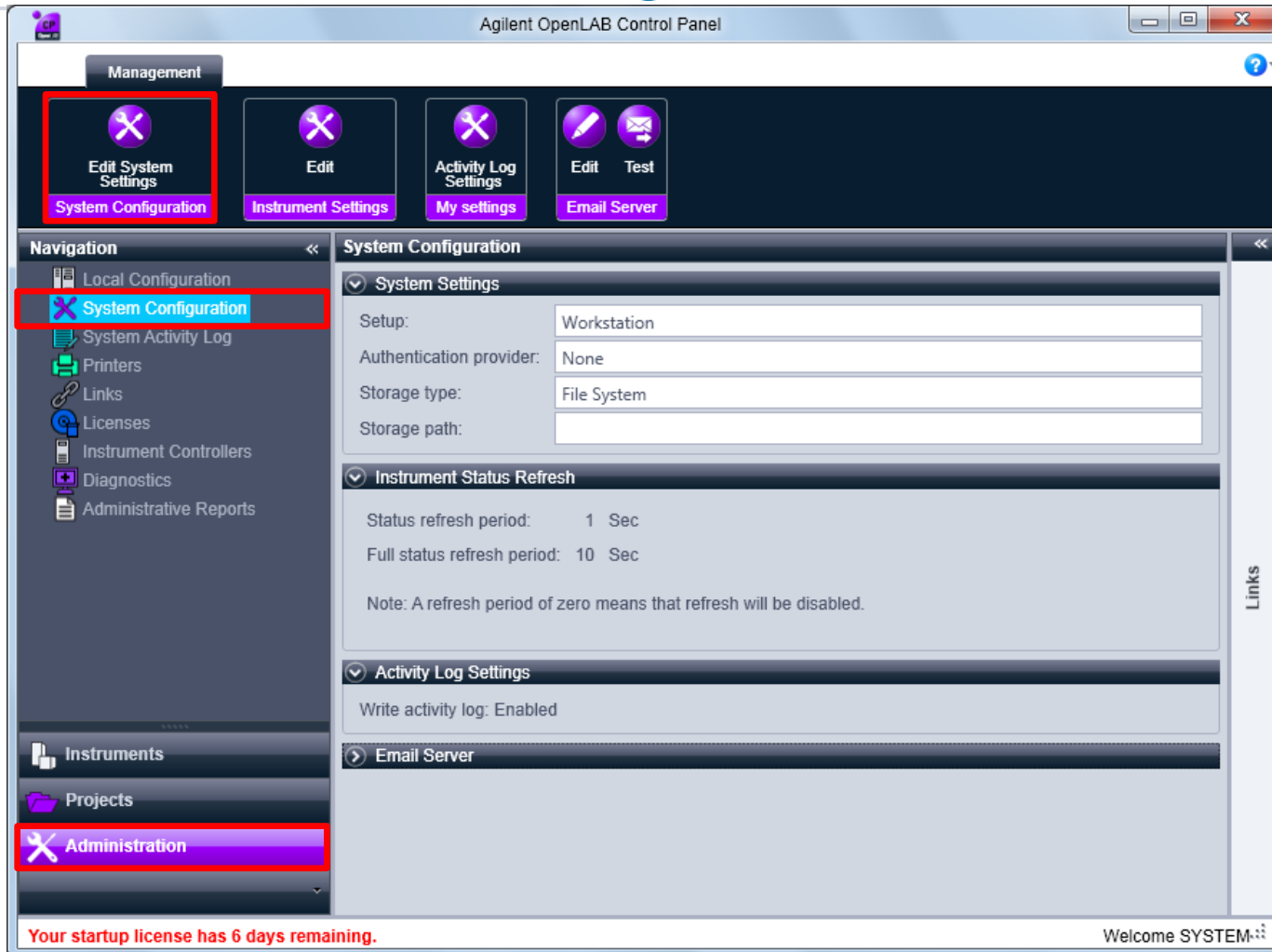
Below the properties is a "Details" section with the following information:

- Project Id: 42
- Created: 2013-01-23T17:07:12
- Modified: 2013-01-23T17:07:12
- Modified by: SYSTEM

At the bottom of the configuration area is an "Activity Log" section, which is currently empty. On the far right of the configuration area, there is a vertical "Links" pane.

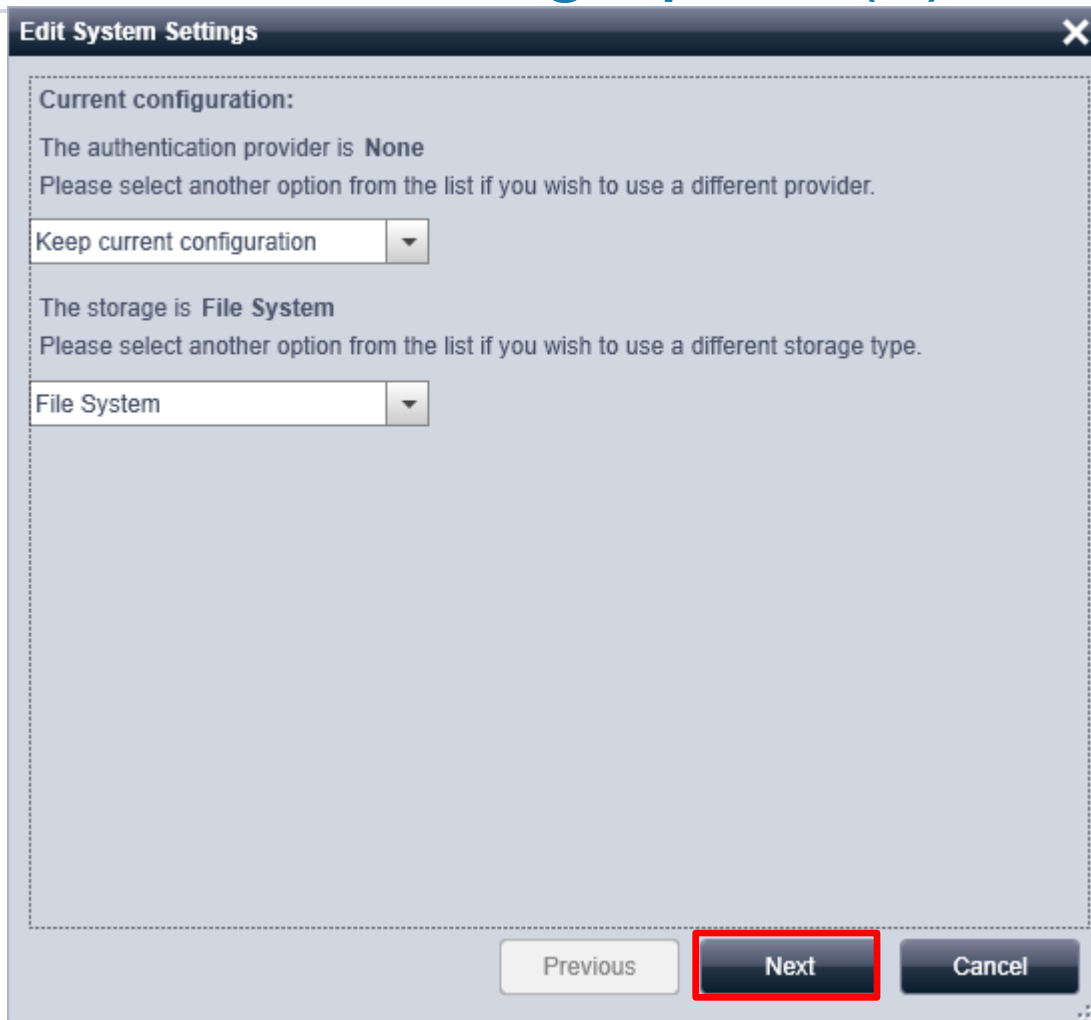
At the bottom of the window, a status bar shows "Your startup license has 52 days remaining." on the left and "Welcome SYSTEM" on the right.

# Creation of the storage path (1)



The screenshot displays the Agilent OpenLAB Control Panel interface. At the top, the title bar reads "Agilent OpenLAB Control Panel". Below it, a "Management" tab is active, showing four main configuration buttons: "Edit System Settings" (labeled "System Configuration"), "Edit" (labeled "Instrument Settings"), "Activity Log Settings" (labeled "My settings"), and "Email Server" (with "Edit" and "Test" sub-buttons). The "System Configuration" button is highlighted with a red box. On the left, a "Navigation" sidebar lists various system components, with "System Configuration" also highlighted in red. The main content area, titled "System Configuration", is divided into sections: "System Settings" (with fields for Setup: Workstation, Authentication provider: None, Storage type: File System, and an empty Storage path field), "Instrument Status Refresh" (with Status refresh period: 1 Sec and Full status refresh period: 10 Sec), "Activity Log Settings" (with Write activity log: Enabled), and "Email Server". A "Links" sidebar is visible on the right. At the bottom left, a red notification states "Your startup license has 6 days remaining." At the bottom right, the text "Welcome SYSTEM" is displayed.

# Creation of the storage path (2)



**Edit System Settings** [X]

**Current configuration:**

The authentication provider is **None**  
Please select another option from the list if you wish to use a different provider.

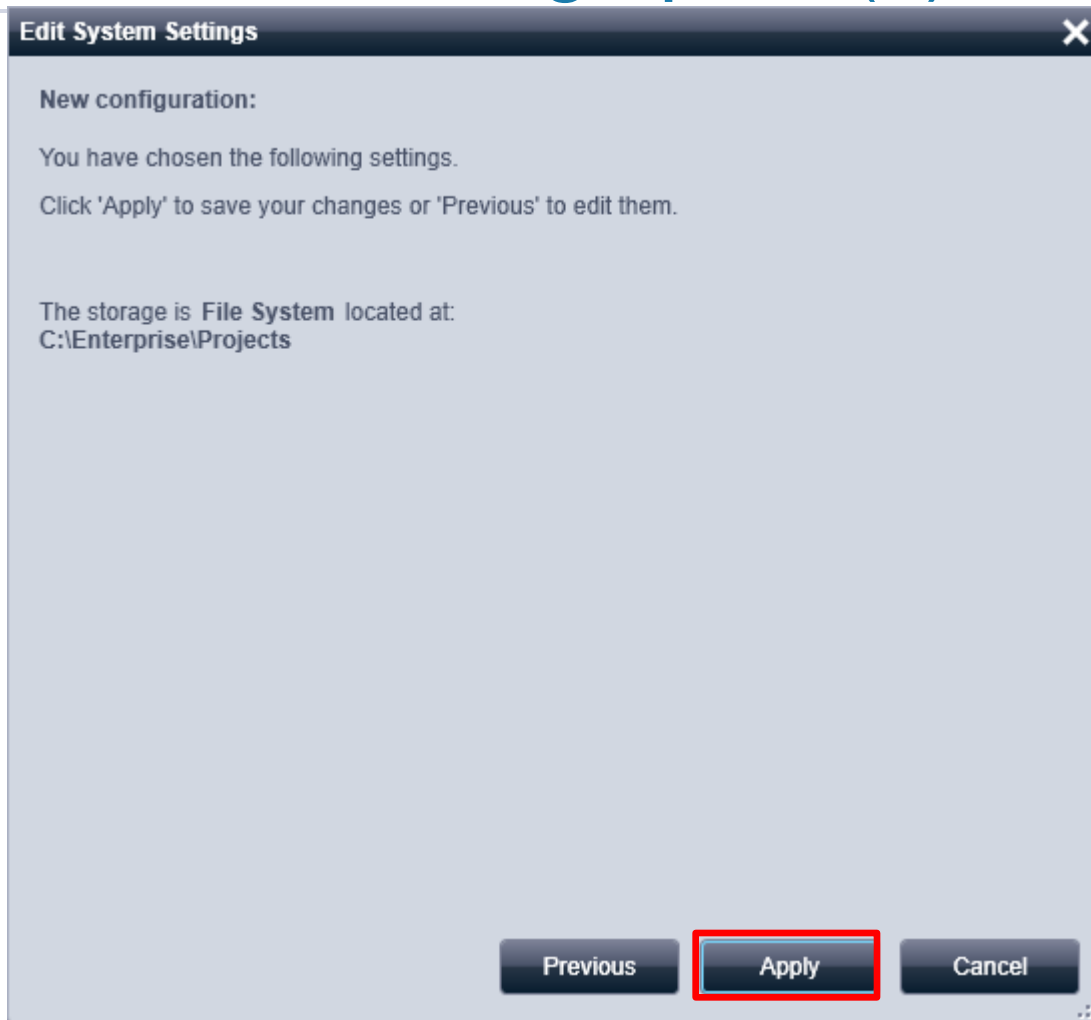
Keep current configuration [v]

The storage is **File System**  
Please select another option from the list if you wish to use a different storage type.

File System [v]

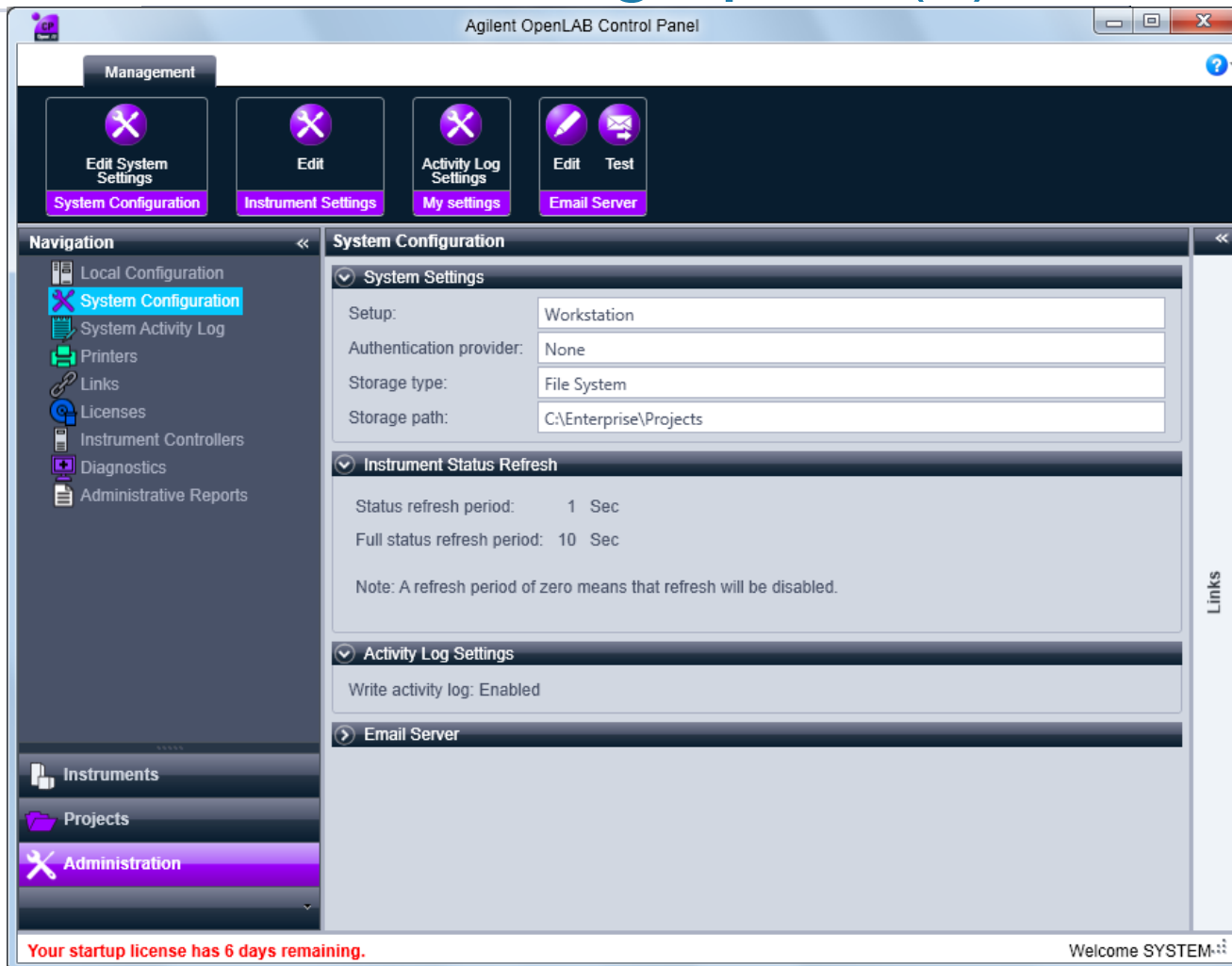
[Previous] **Next** [Cancel]

## Creation of the storage path (3)





# Creation of the storage path (4)

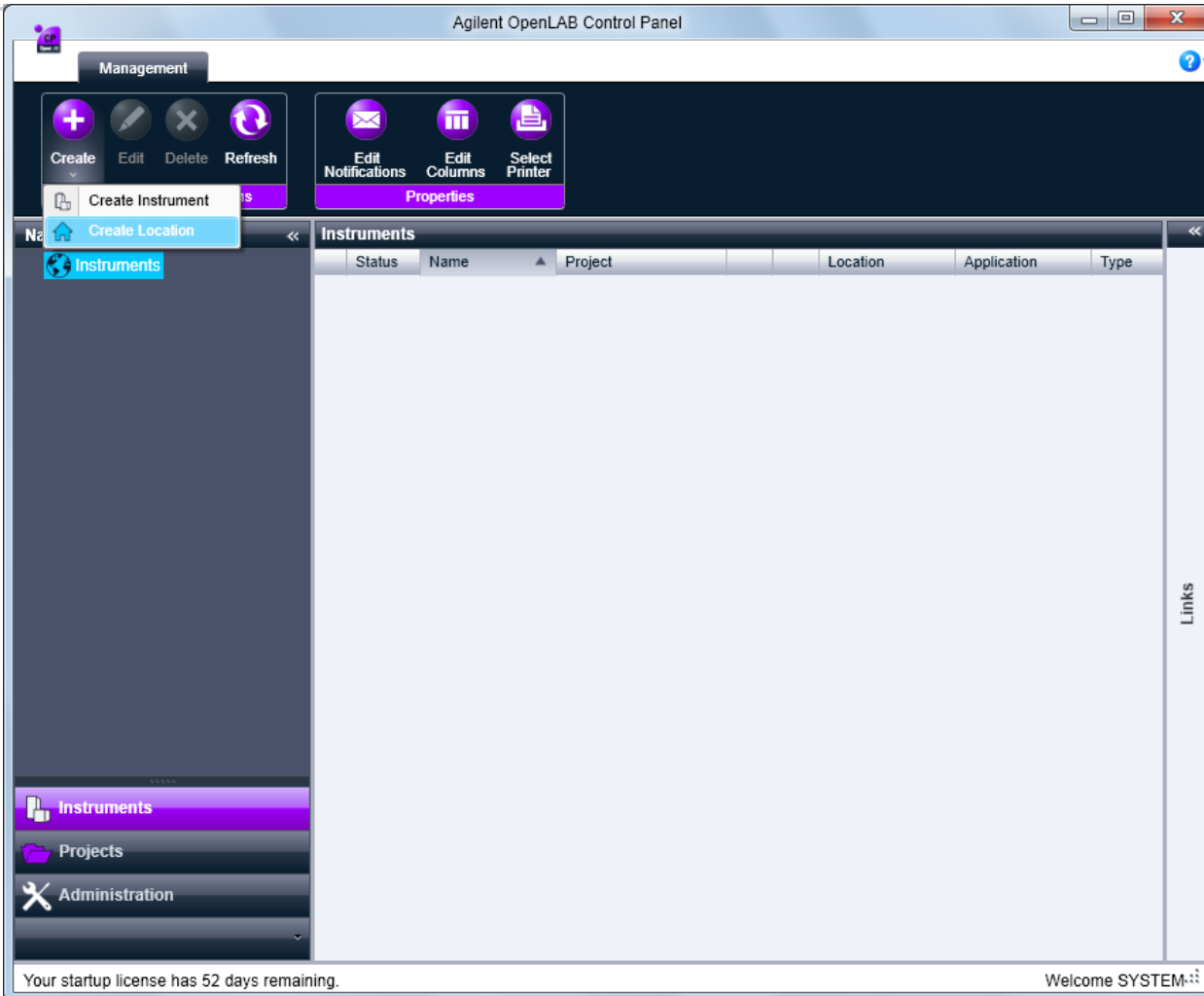


The screenshot displays the Agilent OpenLAB Control Panel interface. The main window title is "Agilent OpenLAB Control Panel". The "Management" tab is active, showing several configuration buttons: "Edit System Settings" (System Configuration), "Edit" (Instrument Settings), "Activity Log Settings" (My settings), and "Edit Test" (Email Server). The "System Configuration" section is expanded, showing the following settings:

- System Settings**
  - Setup: Workstation
  - Authentication provider: None
  - Storage type: File System
  - Storage path: C:\Enterprise\Projects
- Instrument Status Refresh**
  - Status refresh period: 1 Sec
  - Full status refresh period: 10 Sec
  - Note: A refresh period of zero means that refresh will be disabled.
- Activity Log Settings**
  - Write activity log: Enabled
- Email Server**

The left navigation pane includes: Local Configuration, System Configuration (highlighted), System Activity Log, Printers, Links, Licenses, Instrument Controllers, Diagnostics, Administrative Reports, Instruments, Projects, and Administration (highlighted). A status bar at the bottom left indicates "Your startup license has 6 days remaining." and the bottom right shows "Welcome SYSTEM-".

# Creation of a location (1)



Agilent OpenLAB Control Panel

Management

Create Edit Delete Refresh

Create Instrument

Create Location

Edit Notifications Edit Columns Select Printer

Properties

Instruments

Status	Name	Project	Location	Application	Type
--------	------	---------	----------	-------------	------

Instruments

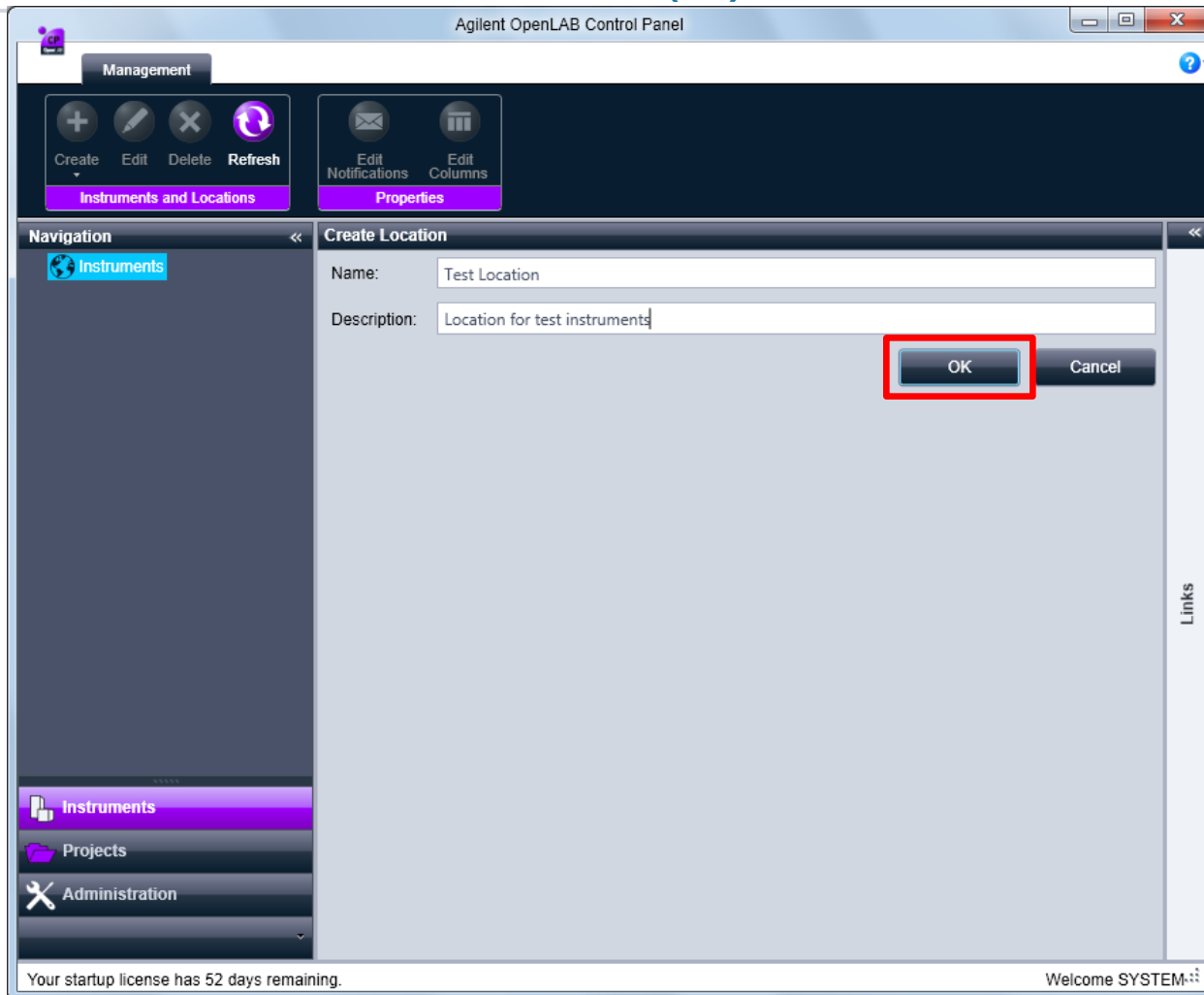
Projects

Administration

Your startup license has 52 days remaining.

Welcome SYSTEM

# Creation of a location (2)

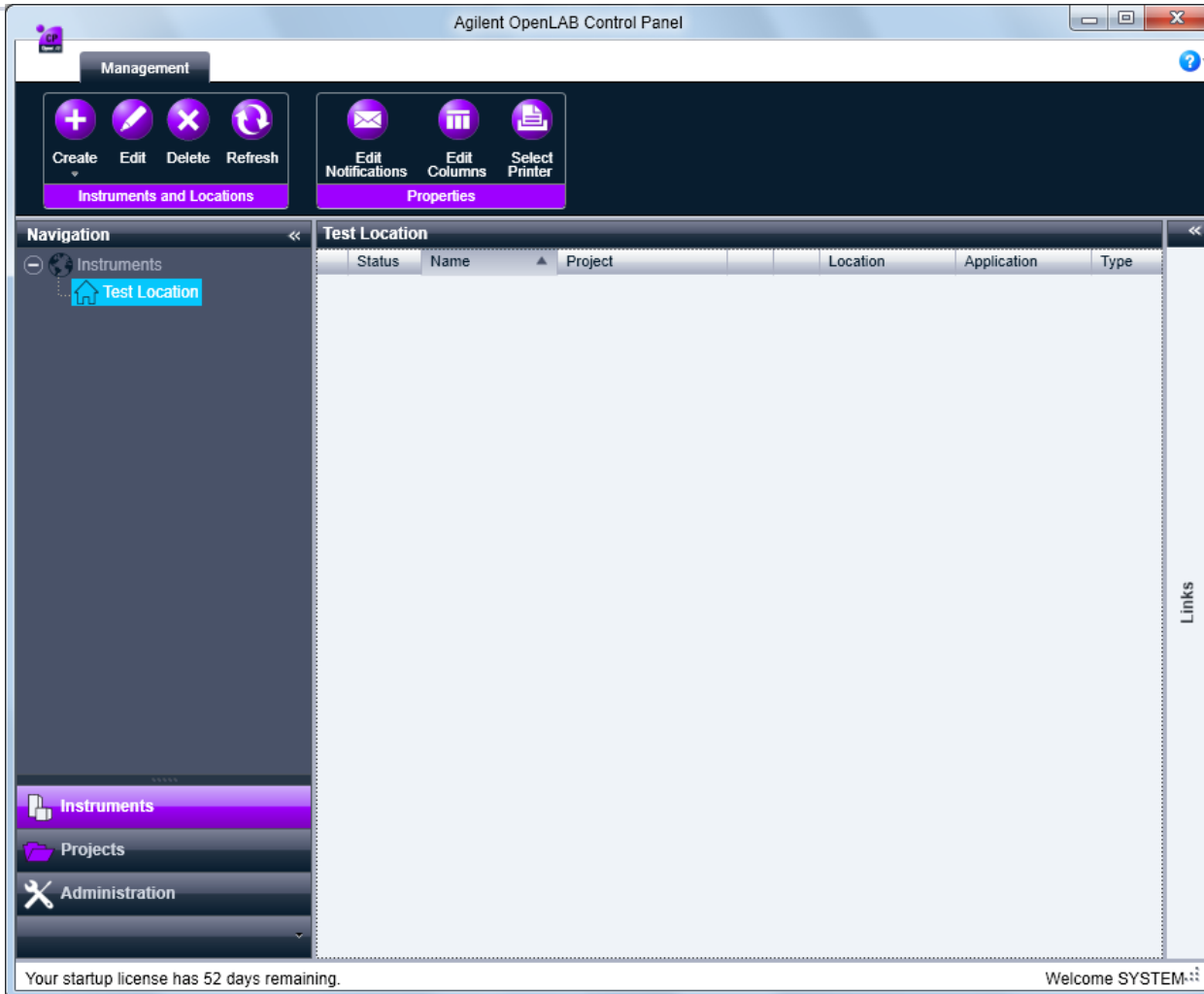


The screenshot shows the 'Agilent OpenLAB Control Panel' window. The 'Management' tab is active, showing 'Instruments and Locations' and 'Properties' buttons. The 'Navigation' pane on the left has 'Instruments' selected. The 'Create Location' dialog box is open, with the following fields and buttons:

- Name: Test Location
- Description: Location for test instruments
- Buttons: OK (highlighted with a red rectangle), Cancel

At the bottom of the window, there is a status bar with the text: "Your startup license has 52 days remaining." and "Welcome SYSTEM...".

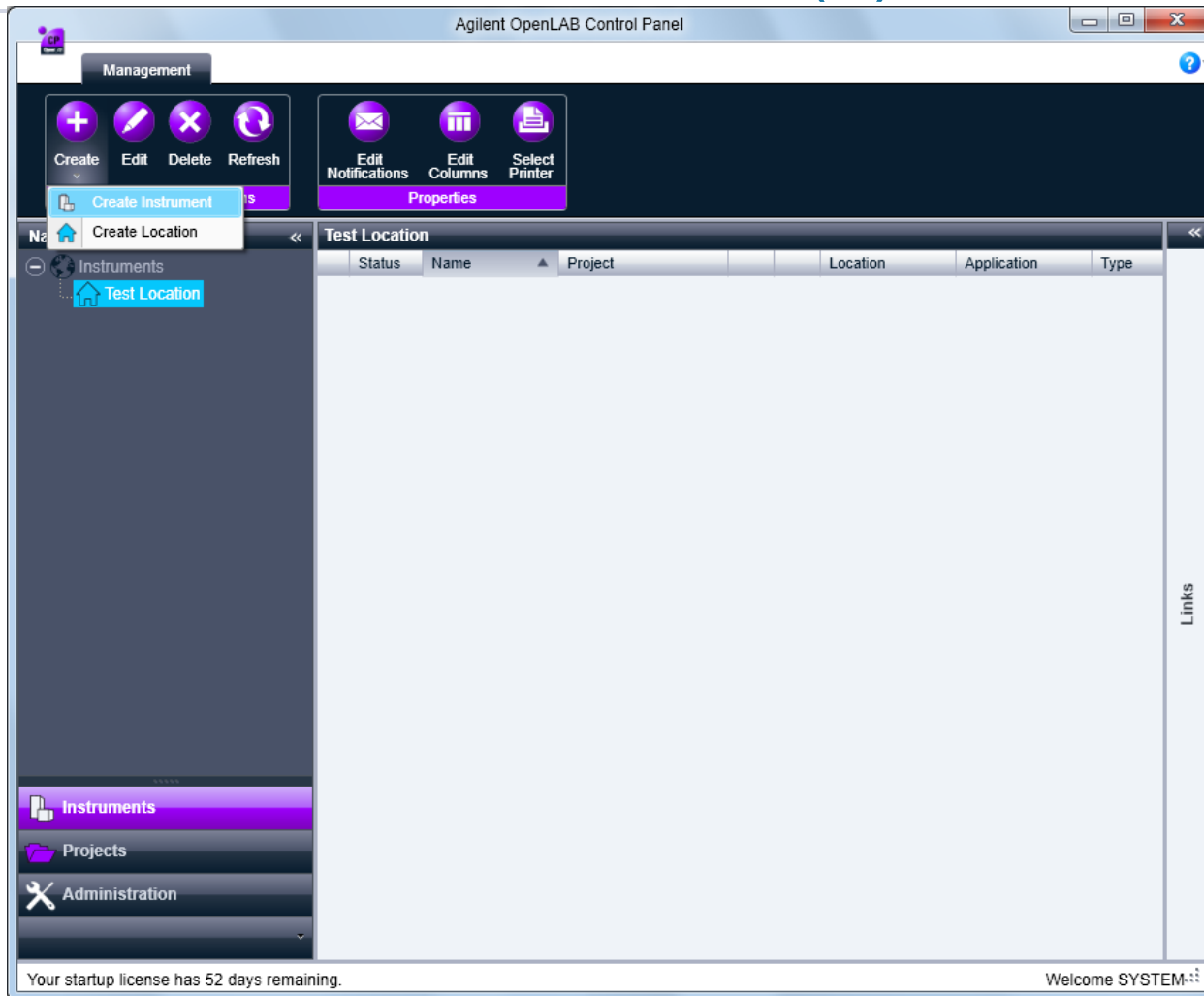
# Creation of a location (3)



The screenshot displays the Agilent OpenLAB Control Panel interface. At the top, the window title is "Agilent OpenLAB Control Panel". Below the title bar is a "Management" section with two groups of icons. The first group, labeled "Instruments and Locations", includes icons for Create, Edit, Delete, and Refresh. The second group, labeled "Properties", includes icons for Edit Notifications, Edit Columns, and Select Printer. A "Navigation" sidebar on the left shows a tree view with "Instruments" and "Test Location" (highlighted with a home icon). Below the sidebar are buttons for "Instruments", "Projects", and "Administration". The main area is titled "Test Location" and contains a table with the following columns: Status, Name, Project, Location, Application, and Type. The table is currently empty. A "Links" section is visible on the right side of the main area. At the bottom of the window, a status bar displays the message "Your startup license has 52 days remaining." on the left and "Welcome SYSTEM" on the right.

Status	Name	Project	Location	Application	Type
--------	------	---------	----------	-------------	------

# Creation of an instrument (1)



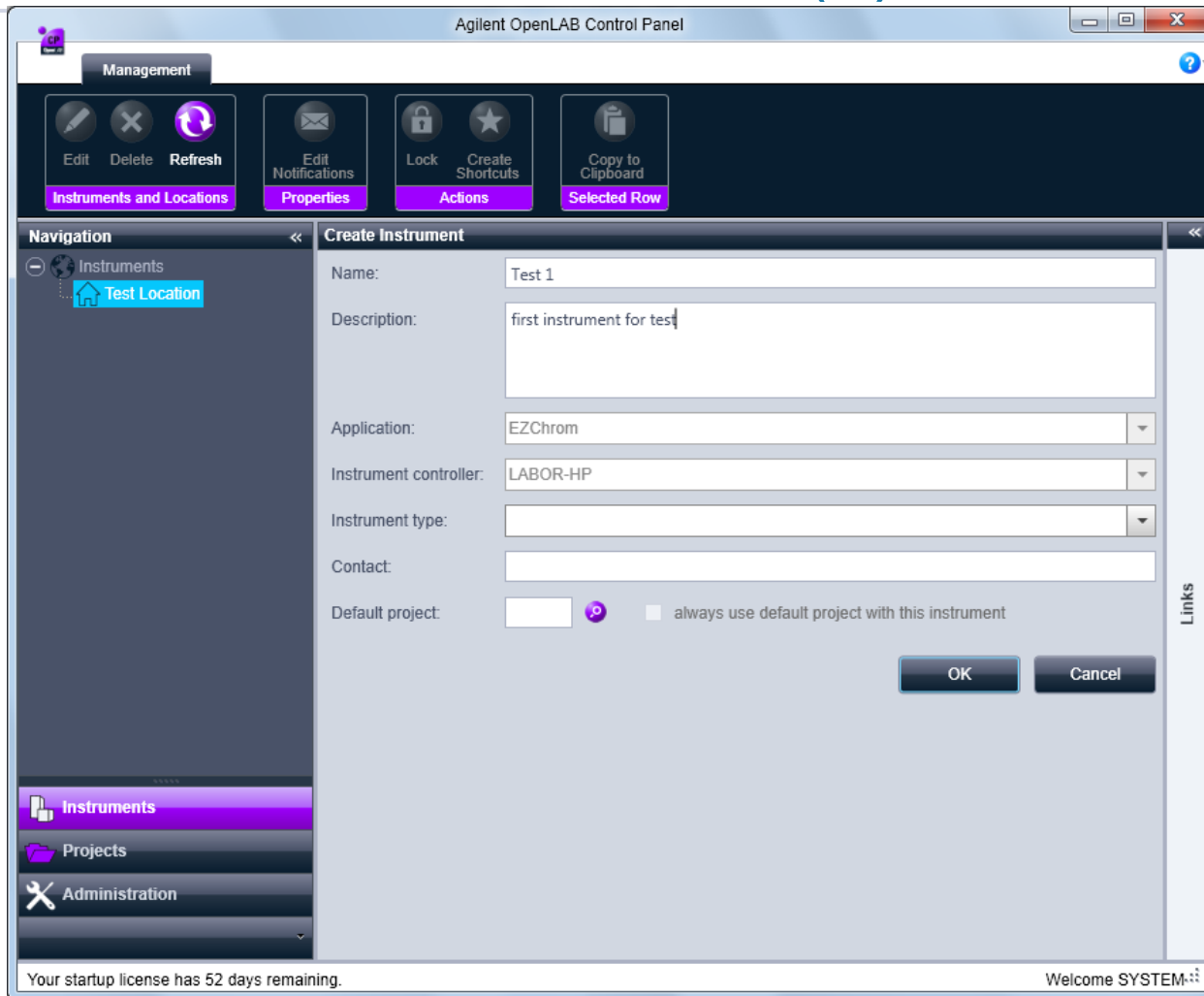
The screenshot displays the Agilent OpenLAB Control Panel interface. At the top, the window title is "Agilent OpenLAB Control Panel". Below the title bar, there is a "Management" section with several icons: a plus sign for "Create", a pencil for "Edit", a cross for "Delete", and a circular arrow for "Refresh". To the right of these are icons for "Edit Notifications", "Edit Columns", and "Select Printer". A "Properties" button is also visible.

The main interface is divided into a left sidebar and a main content area. The sidebar contains a "Create Location" button and a tree view under "Instruments" with a "Test Location" item selected. Below the sidebar are buttons for "Instruments", "Projects", and "Administration".

The main content area features a table with the following columns: "Status", "Name", "Project", "Location", "Application", and "Type". The table is currently empty. A "Links" section is visible on the right side of the table.

At the bottom of the interface, a status bar displays the message: "Your startup license has 52 days remaining." and "Welcome SYSTEM...".

# Creation of an instrument (2)

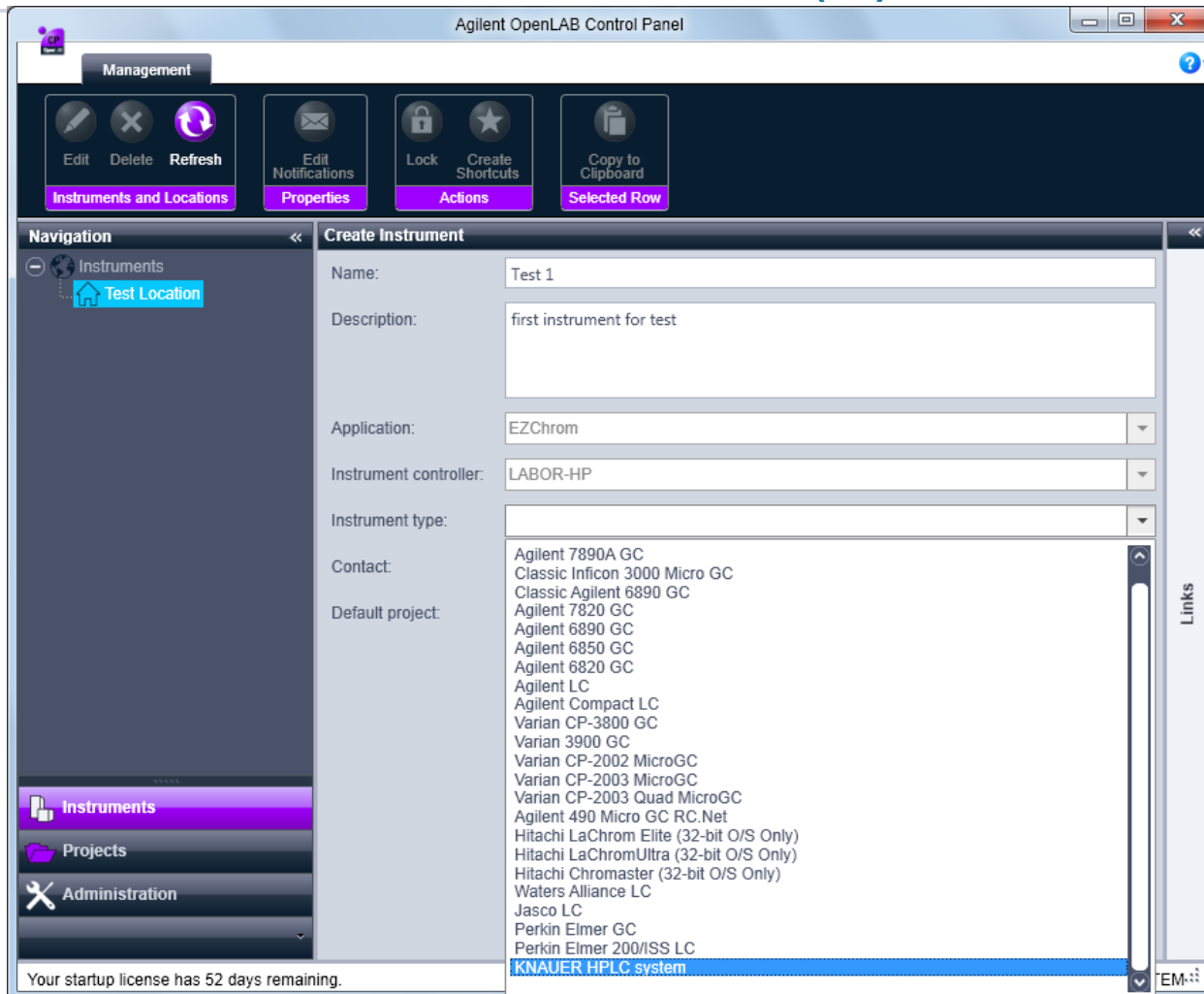


The screenshot shows the 'Agilent OpenLAB Control Panel' window with the 'Create Instrument' dialog box open. The dialog box has a 'Management' bar at the top with icons for Edit, Delete, Refresh, Edit Notifications, Lock, Create Shortcuts, and Copy to Clipboard. Below this is a 'Navigation' sidebar with 'Instruments' selected, showing a 'Test Location' folder. The main area contains the following fields:

- Name: Test 1
- Description: first instrument for test
- Application: EZChrom
- Instrument controller: LABOR-HP
- Instrument type: (empty dropdown)
- Contact: (empty text field)
- Default project: (empty dropdown)  always use default project with this instrument

Buttons for 'OK' and 'Cancel' are at the bottom right. A 'Links' sidebar is visible on the far right. At the bottom of the window, a status bar reads 'Your startup license has 52 days remaining.' and 'Welcome SYSTEM...'.

# Creation of an instrument (3)



Agilent OpenLAB Control Panel

Management

Edit Delete Refresh

Edit Notifications

Lock Create Shortcuts

Copy to Clipboard

Instruments and Locations Properties Actions Selected Row

Navigation << Create Instrument >>

Instruments

Test Location

Name: Test 1

Description: first instrument for test

Application: EZChrom

Instrument controller: LABOR-HP

Instrument type:

Contact:

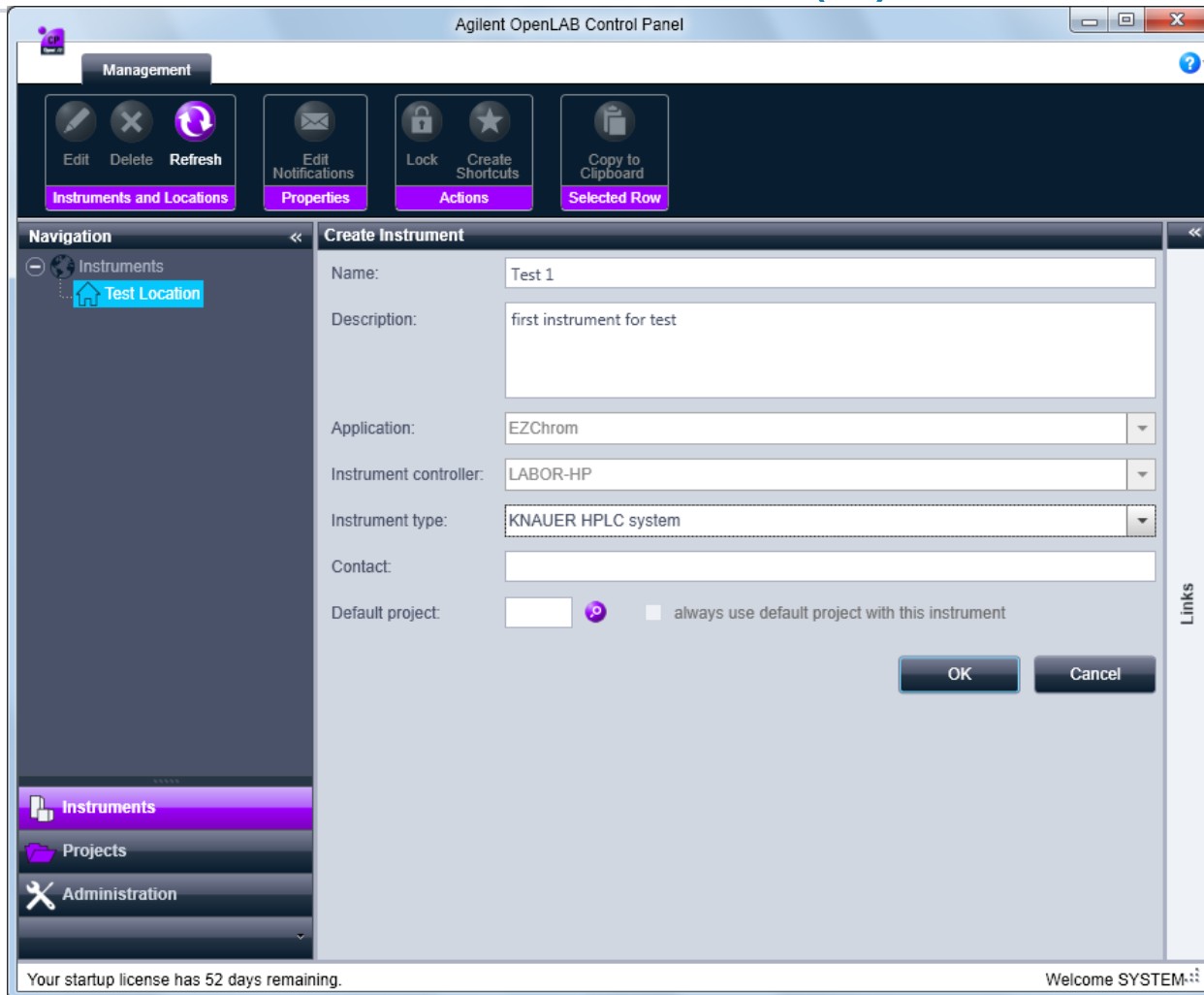
Default project:

- Agilent 7890A GC
- Classic Inficon 3000 Micro GC
- Classic Agilent 6890 GC
- Agilent 7820 GC
- Agilent 6890 GC
- Agilent 6850 GC
- Agilent 6820 GC
- Agilent LC
- Agilent Compact LC
- Varian CP-3800 GC
- Varian 3900 GC
- Varian CP-2002 MicroGC
- Varian CP-2003 MicroGC
- Varian CP-2003 Quad MicroGC
- Agilent 490 Micro GC RC.Net
- Hitachi LaChrom Elite (32-bit O/S Only)
- Hitachi LaChromUltra (32-bit O/S Only)
- Hitachi Chromaster (32-bit O/S Only)
- Waters Alliance LC
- Jasco LC
- Perkin Elmer GC
- Perkin Elmer 200/ISS LC
- KNAUER HPLC system**

Links

Your startup license has 52 days remaining.

# Creation of an instrument (4)



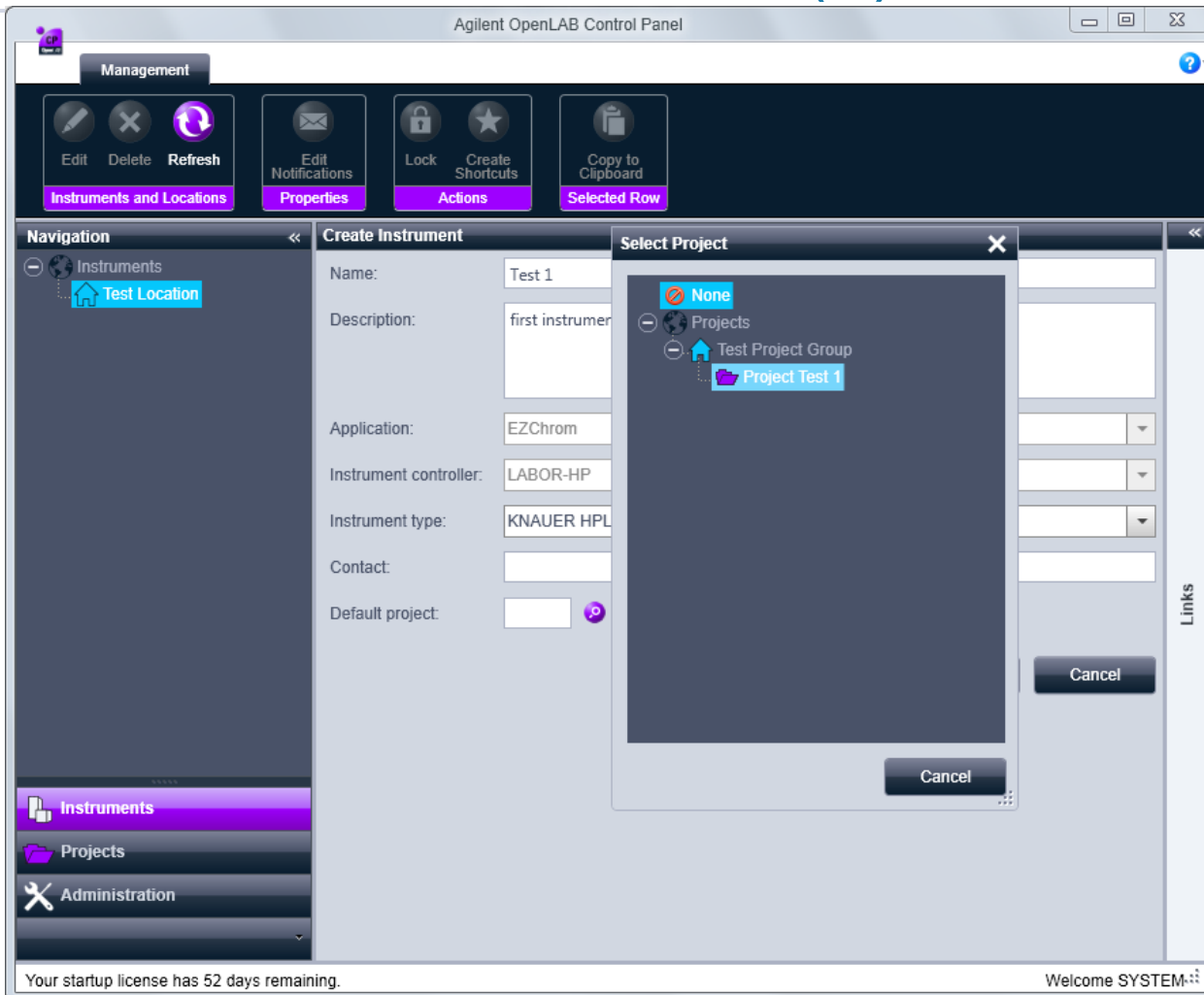
The screenshot shows the 'Agilent OpenLAB Control Panel' window with the 'Create Instrument' dialog box open. The dialog box contains the following fields and options:

- Name:** Test 1
- Description:** first instrument for test
- Application:** EZChrom
- Instrument controller:** LABOR-HP
- Instrument type:** KNAUER HPLC system
- Contact:** (empty field)
- Default project:** (empty field)  always use default project with this instrument

At the bottom of the dialog box are 'OK' and 'Cancel' buttons. The background interface shows a 'Management' toolbar with icons for Edit, Delete, Refresh, Edit Notifications, Lock, Create Shortcuts, and Copy to Clipboard. A navigation pane on the left shows 'Instruments' and 'Test Location' selected. At the bottom of the window, a status bar displays 'Your startup license has 52 days remaining.' and 'Welcome SYSTEM...'.

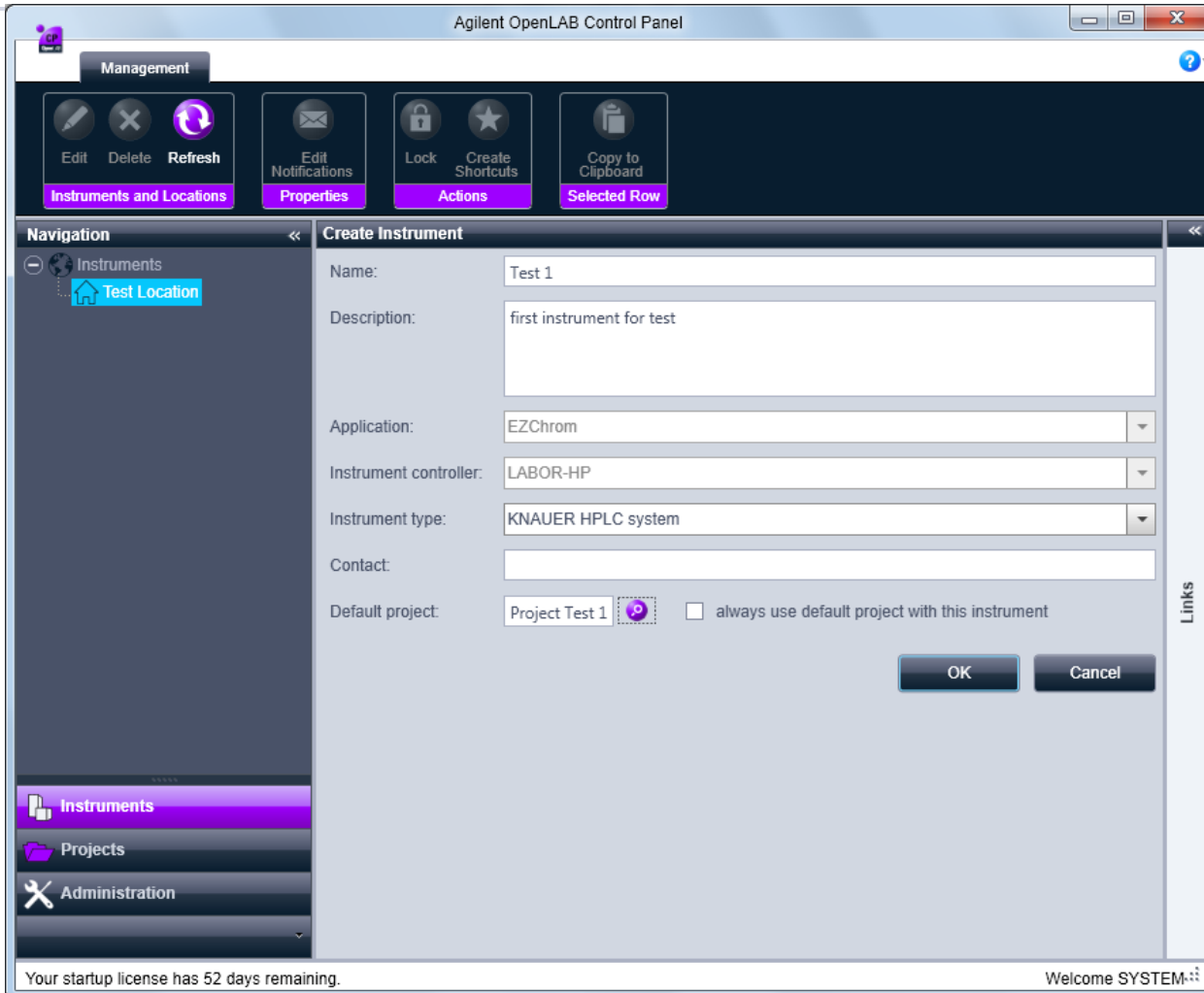


# Creation of an instrument (5)



The screenshot displays the Agilent OpenLAB Control Panel interface. At the top, the title bar reads "Agilent OpenLAB Control Panel". Below it is a "Management" toolbar with icons for Edit, Delete, Refresh, Edit Notifications, Lock, Create Shortcuts, and Copy to Clipboard. The main area is divided into a "Navigation" sidebar on the left and a central "Create Instrument" form. The "Create Instrument" form contains the following fields: Name (Test 1), Description (first instrument), Application (EZChrom), Instrument controller (LABOR-HP), Instrument type (KNAUER HPL), Contact, and Default project. A "Select Project" dialog box is open over the form, showing a tree view with "None" selected, "Projects", "Test Project Group", and "Project Test 1". The "Project Test 1" folder is highlighted. At the bottom of the screen, a status bar indicates "Your startup license has 52 days remaining." and "Welcome SYSTEM...".

# Creation of an instrument (6)



The screenshot shows the 'Agilent OpenLAB Control Panel' window with the 'Create Instrument' dialog box open. The dialog box contains the following fields and options:

- Name:** Test 1
- Description:** first instrument for test
- Application:** EZChrom
- Instrument controller:** LABOR-HP
- Instrument type:** KNAUER HPLC system
- Contact:** (empty field)
- Default project:** Project Test 1 (selected)  always use default project with this instrument

Buttons for 'OK' and 'Cancel' are located at the bottom right of the dialog box. The background interface shows a 'Management' toolbar with icons for Edit, Delete, Refresh, Edit Notifications, Lock, Create Shortcuts, and Copy to Clipboard. A navigation pane on the left shows 'Instruments' and 'Test Location' selected. At the bottom of the window, a status bar indicates 'Your startup license has 52 days remaining.' and 'Welcome SYSTEM...'.

# Creation of an instrument (7)

Agilent OpenLAB Control Panel

**Management**

**Instruments and Locations:** Edit, Delete, Refresh

**Properties:** Edit Notifications, Select Printer

**Actions:** Lock, Create Shortcuts, Configure Instrument, Configure from Data, Close Connection

**Selected Row:** Copy to Clipboard

**Navigation:** Instruments, Test Location, **Test 1**

**Test 1** Not Connected

Start Instrument

Project:  Browse Launch Launch Offline

**Status**  
Instrument does not have status information

**Details**

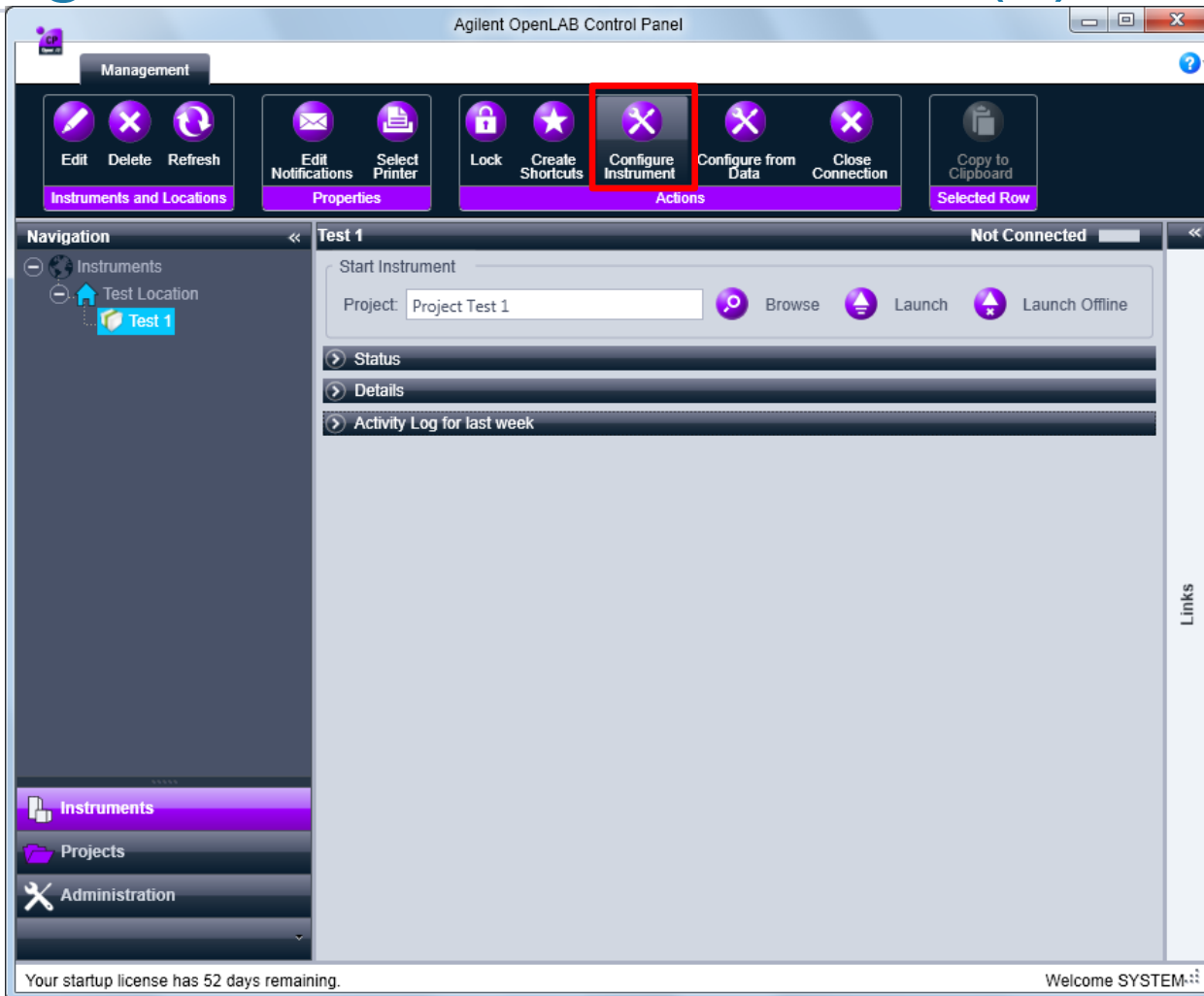
Description:	first instrument for test
Location:	Test Location
Created by:	SYSTEM
Creation date:	2013-01-23T17:24:13
Last configured by:	
Last configuration date/time:	
Last modified by:	SYSTEM
Last modified date/time:	2013-01-23T17:24:13
Application:	EZChrom
Instrument controller:	LABOR-HP
Instrument type:	KNAUER HPLC system
Id:	44
Owner contact information:	

**Activity Log for last week**

Date/Time	User	Description
2013-01-23T17:24:13 -01:00	SYSTEM (SYSTEM)	Instrument "Test 1" was added

Your startup license has 52 days remaining. Welcome SYSTEM

# Configuration of an instrument (1)



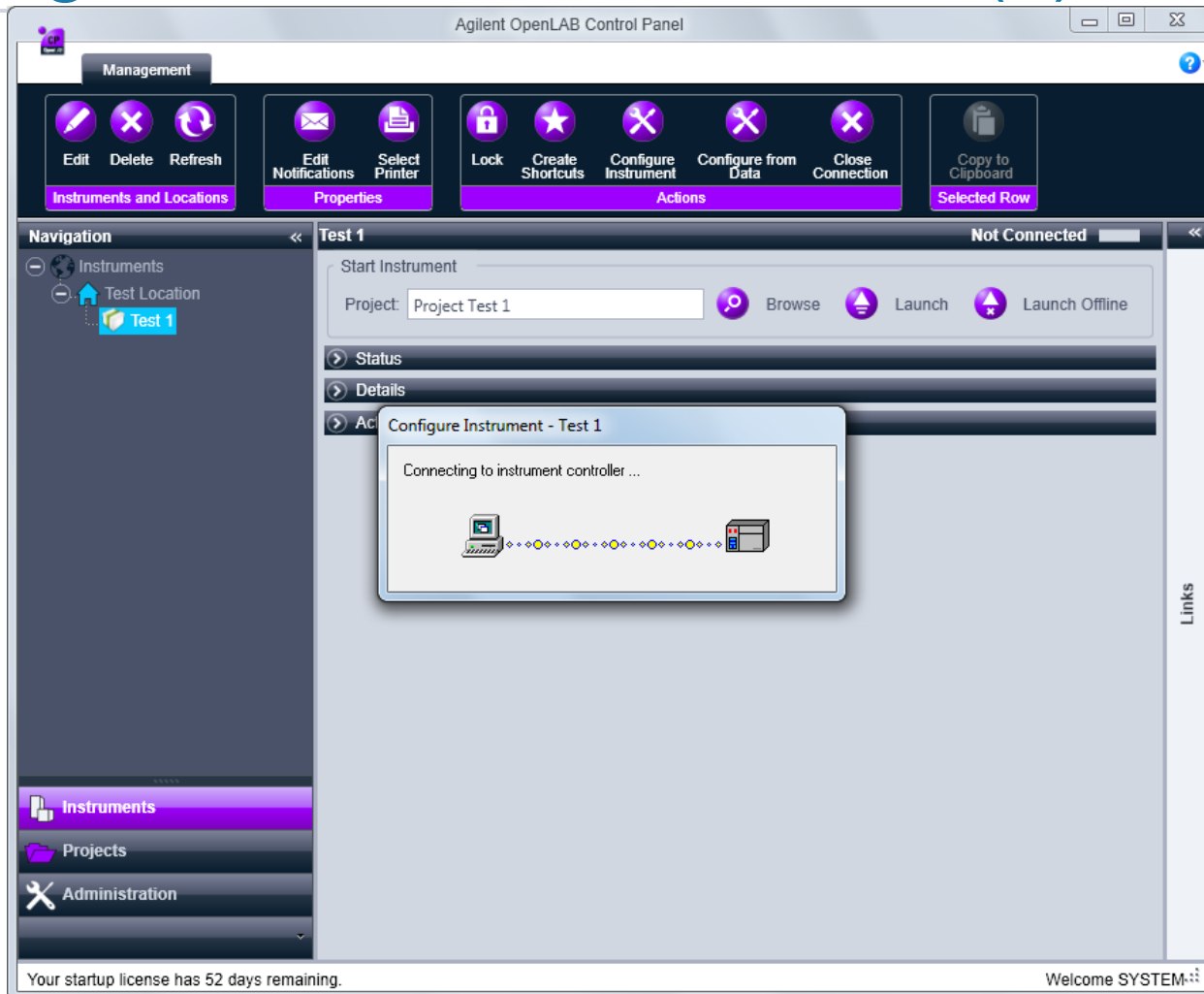
The screenshot displays the Agilent OpenLAB Control Panel interface. At the top, the window title is "Agilent OpenLAB Control Panel". Below the title bar is a "Management" section with several icons and labels: "Edit", "Delete", "Refresh" (under "Instruments and Locations"); "Edit Notifications", "Select Printer" (under "Properties"); "Lock", "Create Shortcuts", "Configure Instrument" (highlighted with a red box), "Configure from Data", "Close Connection" (under "Actions"); and "Copy to Clipboard" (under "Selected Row").

The main interface is divided into a "Navigation" sidebar on the left and a main content area. The sidebar shows a tree view with "Instruments" expanded to "Test Location" and "Test 1" selected. Below the sidebar are three main menu items: "Instruments", "Projects", and "Administration".

The main content area is titled "Test 1" and shows a "Start Instrument" section with a "Project" field containing "Project Test 1" and buttons for "Browse", "Launch", and "Launch Offline". Below this are sections for "Status", "Details", and "Activity Log for last week".

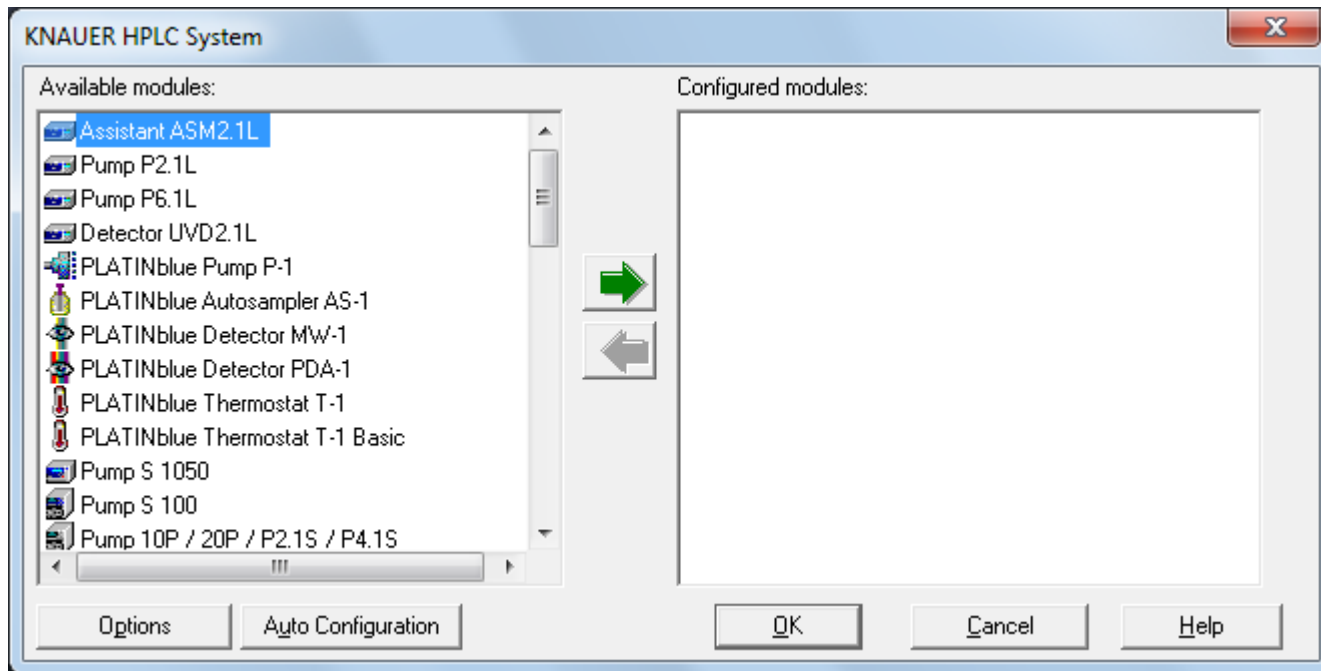
At the bottom of the window, a status bar displays "Your startup license has 52 days remaining." on the left and "Welcome SYSTEM" on the right.

# Configuration of an instrument (2)

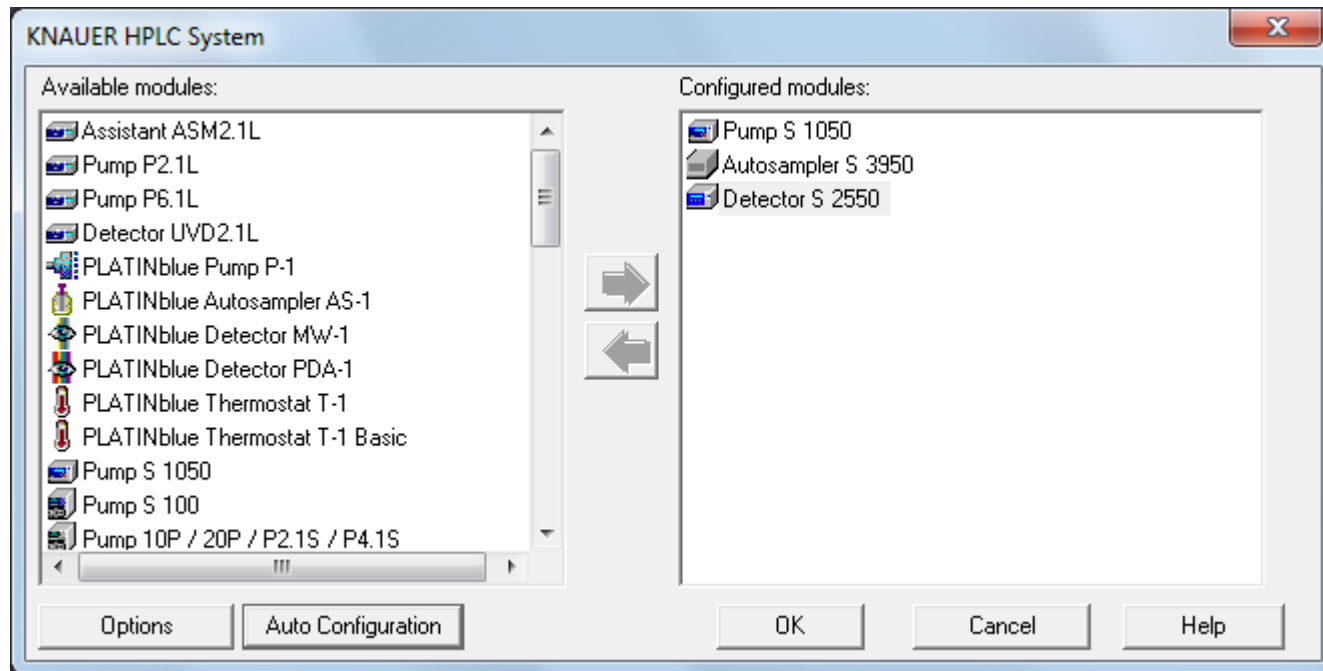


The screenshot displays the Agilent OpenLAB Control Panel interface. At the top, the title bar reads "Agilent OpenLAB Control Panel". Below this is a "Management" toolbar with several icons and labels: "Instruments and Locations" (Edit, Delete, Refresh), "Properties" (Edit Notifications, Select Printer), "Actions" (Lock, Create Shortcuts, Configure Instrument, Configure from Data, Close Connection), and "Selected Row" (Copy to Clipboard). The main area is divided into a "Navigation" sidebar on the left and a main content area. The sidebar shows a tree view with "Instruments" expanded to "Test Location" and "Test 1" selected. The main content area shows the "Test 1" configuration page, which is currently "Not Connected". It includes a "Start Instrument" section with a "Project" field set to "Project Test 1" and buttons for "Browse", "Launch", and "Launch Offline". Below this are sections for "Status", "Details", and "Actions". A modal dialog box titled "Configure Instrument - Test 1" is open in the center, showing a progress bar and the text "Connecting to instrument controller ...". The dialog also features icons for a laptop and a server connected by a dotted line. At the bottom of the interface, a status bar indicates "Your startup license has 52 days remaining." and "Welcome SYSTEM...".

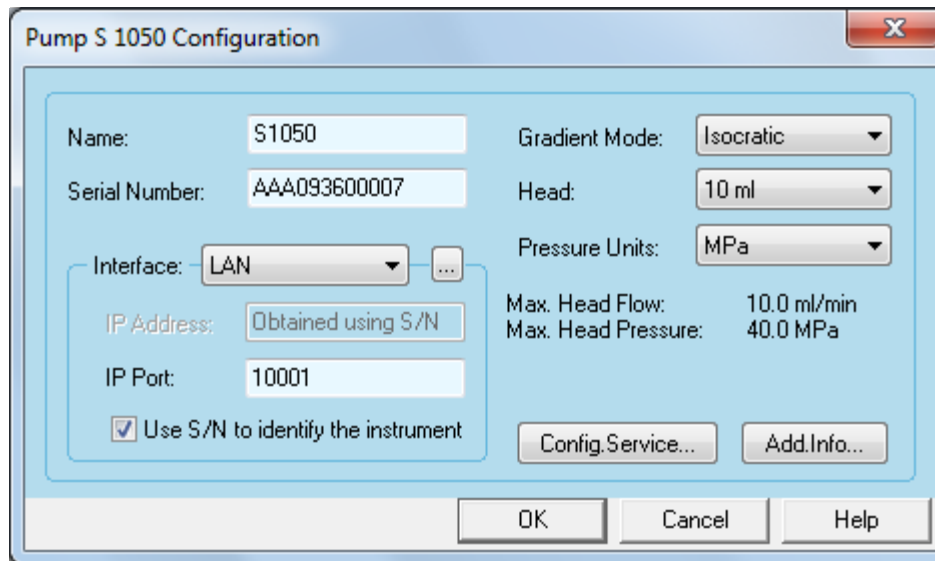
# Configuration of an instrument (3)



# Configuration of an instrument (4)



# Configuration of an instrument (5)

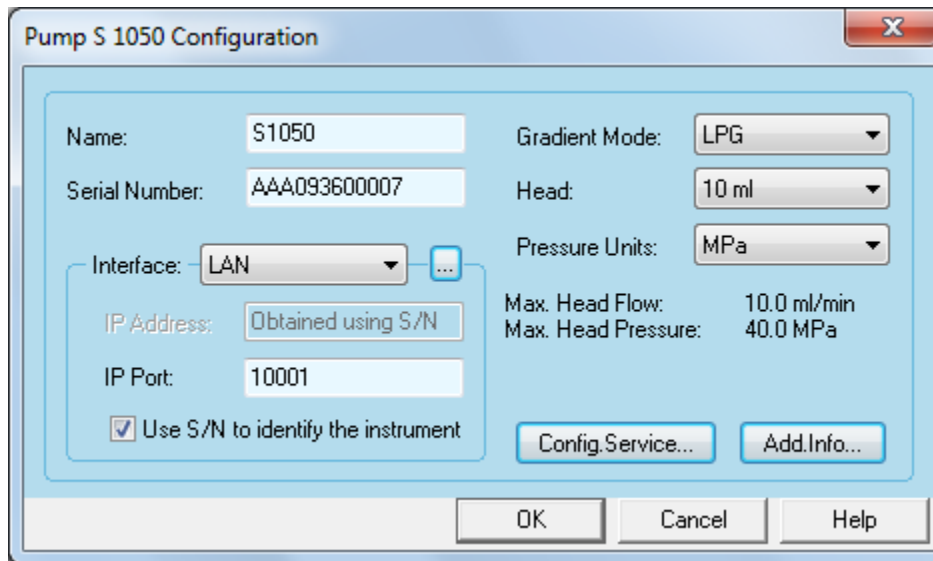


The screenshot shows the 'Pump S 1050 Configuration' dialog box. It contains the following fields and options:

- Name: S1050
- Serial Number: AAA093600007
- Interface: LAN (with a browse button)
- IP Address: Obtained using S/N
- IP Port: 10001
- Use S/N to identify the instrument:
- Gradient Mode: Isocratic
- Head: 10 ml
- Pressure Units: MPa
- Max. Head Flow: 10.0 ml/min
- Max. Head Pressure: 40.0 MPa
- Buttons: Config.Service..., Add.Info..., OK, Cancel, Help



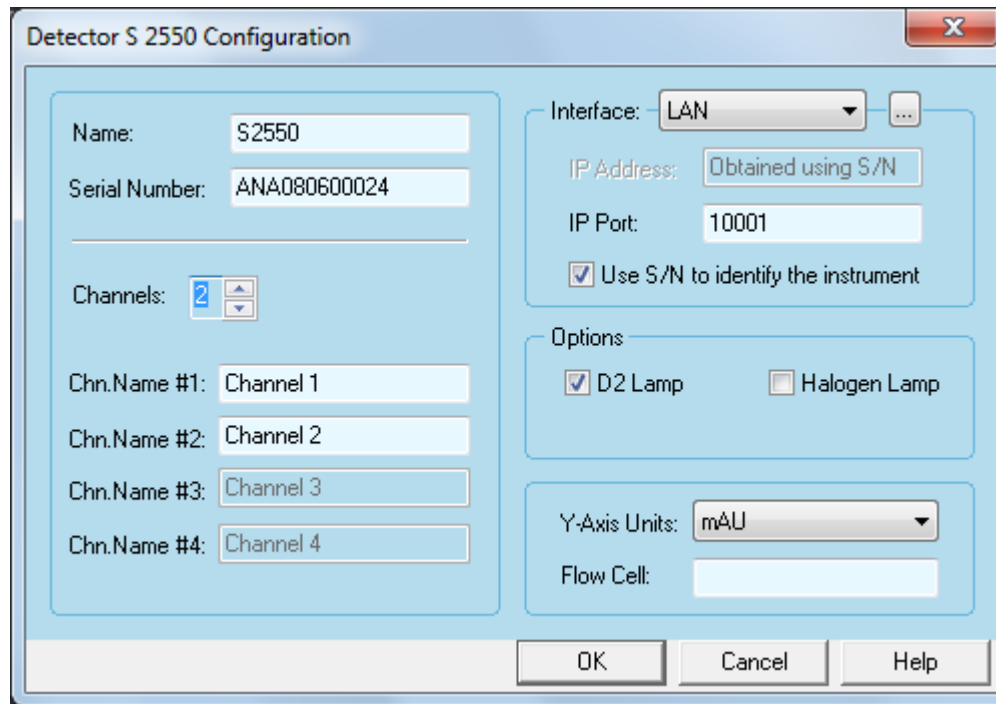
# Configuration of an instrument (6)



The screenshot shows a software configuration window titled "Pump S 1050 Configuration". The window contains several input fields and dropdown menus for configuring the instrument's parameters. The fields are organized into two columns. The left column includes "Name" (S1050), "Serial Number" (AAA093600007), "Interface" (LAN), "IP Address" (Obtained using S/N), "IP Port" (10001), and a checked checkbox "Use S/N to identify the instrument". The right column includes "Gradient Mode" (LPG), "Head" (10 ml), "Pressure Units" (MPa), and two rows of "Max. Head Flow" and "Max. Head Pressure" (10.0 ml/min and 40.0 MPa). At the bottom of the dialog are buttons for "Config.Service...", "Add.Info...", "OK", "Cancel", and "Help".

Name:	S1050	Gradient Mode:	LPG
Serial Number:	AAA093600007	Head:	10 ml
Interface:	LAN	Pressure Units:	MPa
IP Address:	Obtained using S/N	Max. Head Flow:	10.0 ml/min
IP Port:	10001	Max. Head Pressure:	40.0 MPa
<input checked="" type="checkbox"/> Use S/N to identify the instrument			

# Configuration of an instrument (7)



Detector S 2550 Configuration

Name: S2550

Serial Number: ANA080600024

Channels: 2

Chn.Name #1: Channel 1

Chn.Name #2: Channel 2

Chn.Name #3: Channel 3

Chn.Name #4: Channel 4

Interface: LAN

IP Address: Obtained using S/N

IP Port: 10001

Use S/N to identify the instrument

Options

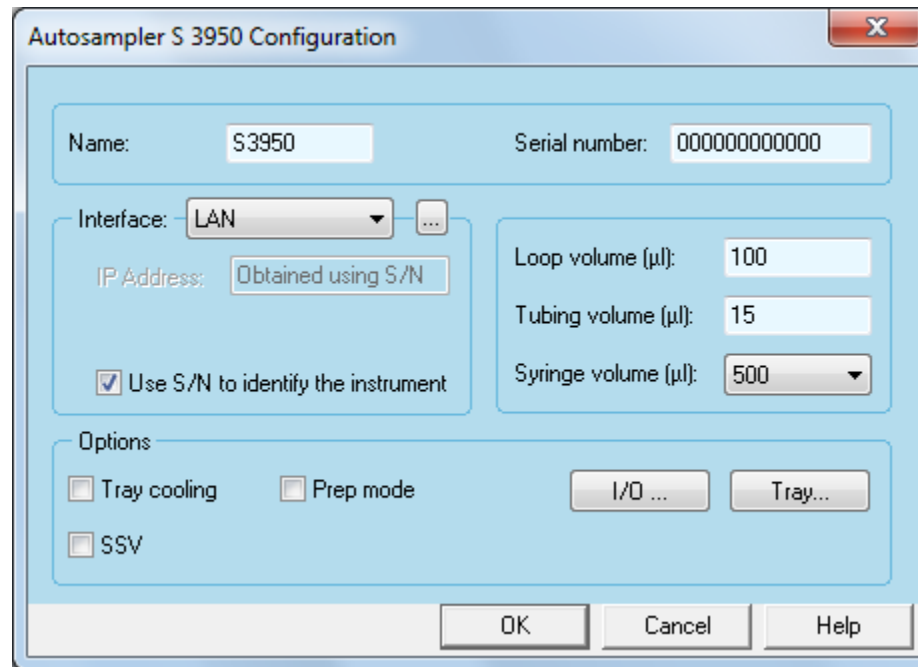
D2 Lamp  Halogen Lamp

Y-Axis Units: mAU

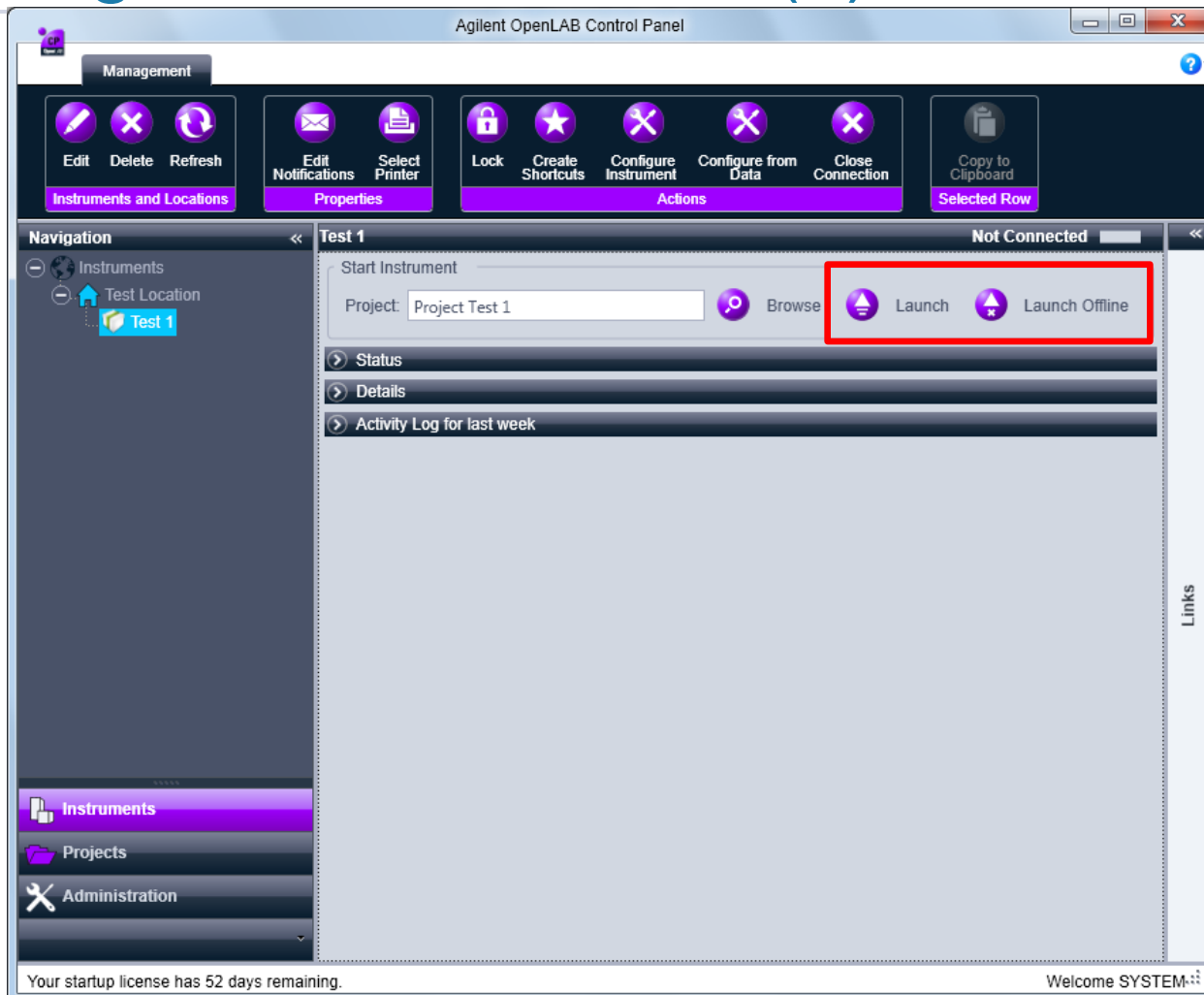
Flow Cell:

OK Cancel Help

# Configuration of an instrument (8)

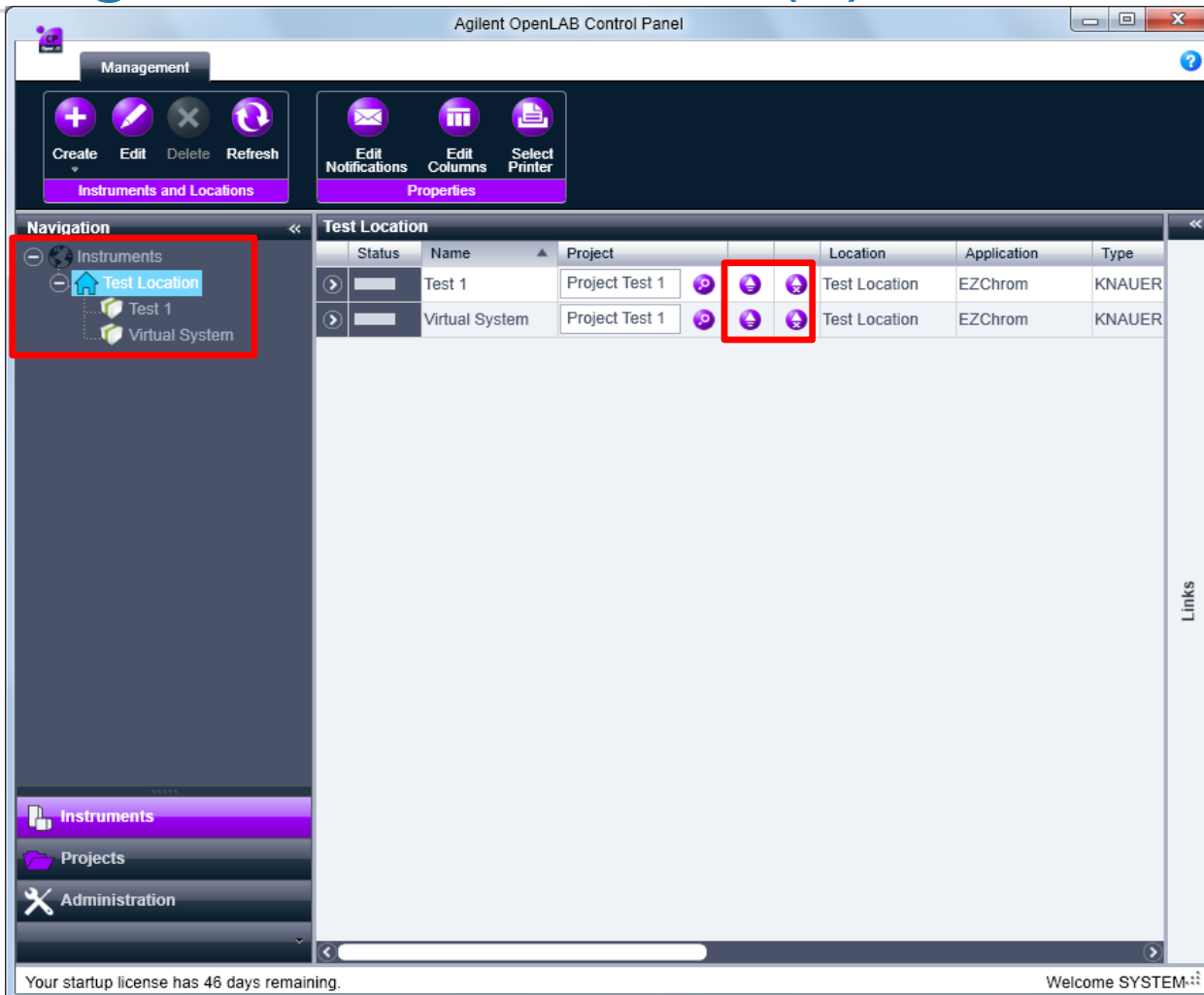


# Starting of an instrument (1)



The screenshot displays the Agilent OpenLAB Control Panel interface. At the top, the title bar reads "Agilent OpenLAB Control Panel". Below this is a "Management" section with several functional groups of icons: "Instruments and Locations" (Edit, Delete, Refresh), "Properties" (Edit Notifications, Select Printer), "Actions" (Lock, Create Shortcuts, Configure Instrument, Configure from Data, Close Connection), and "Selected Row" (Copy to Clipboard). The main area is divided into a "Navigation" sidebar on the left and a central workspace. The sidebar shows a tree view with "Instruments" expanded to "Test Location" and "Test 1" selected. The central workspace is titled "Test 1" and shows a "Start Instrument" section with a "Project" field containing "Project Test 1" and a "Browse" button. Two buttons, "Launch" and "Launch Offline", are highlighted with a red rectangle. Below this are sections for "Status", "Details", and "Activity Log for last week". The bottom status bar indicates "Your startup license has 52 days remaining." and "Welcome SYSTEM-...".

# Starting of an instrument (2)



The screenshot displays the Agilent OpenLAB Control Panel interface. The main window is titled "Agilent OpenLAB Control Panel" and features a "Management" section with icons for "Create", "Edit", "Delete", "Refresh", "Edit Notifications", "Edit Columns", and "Select Printer".

The "Navigation" pane on the left shows a tree structure under "Instruments" with "Test Location" selected. Below it are "Instruments", "Projects", and "Administration" sections.

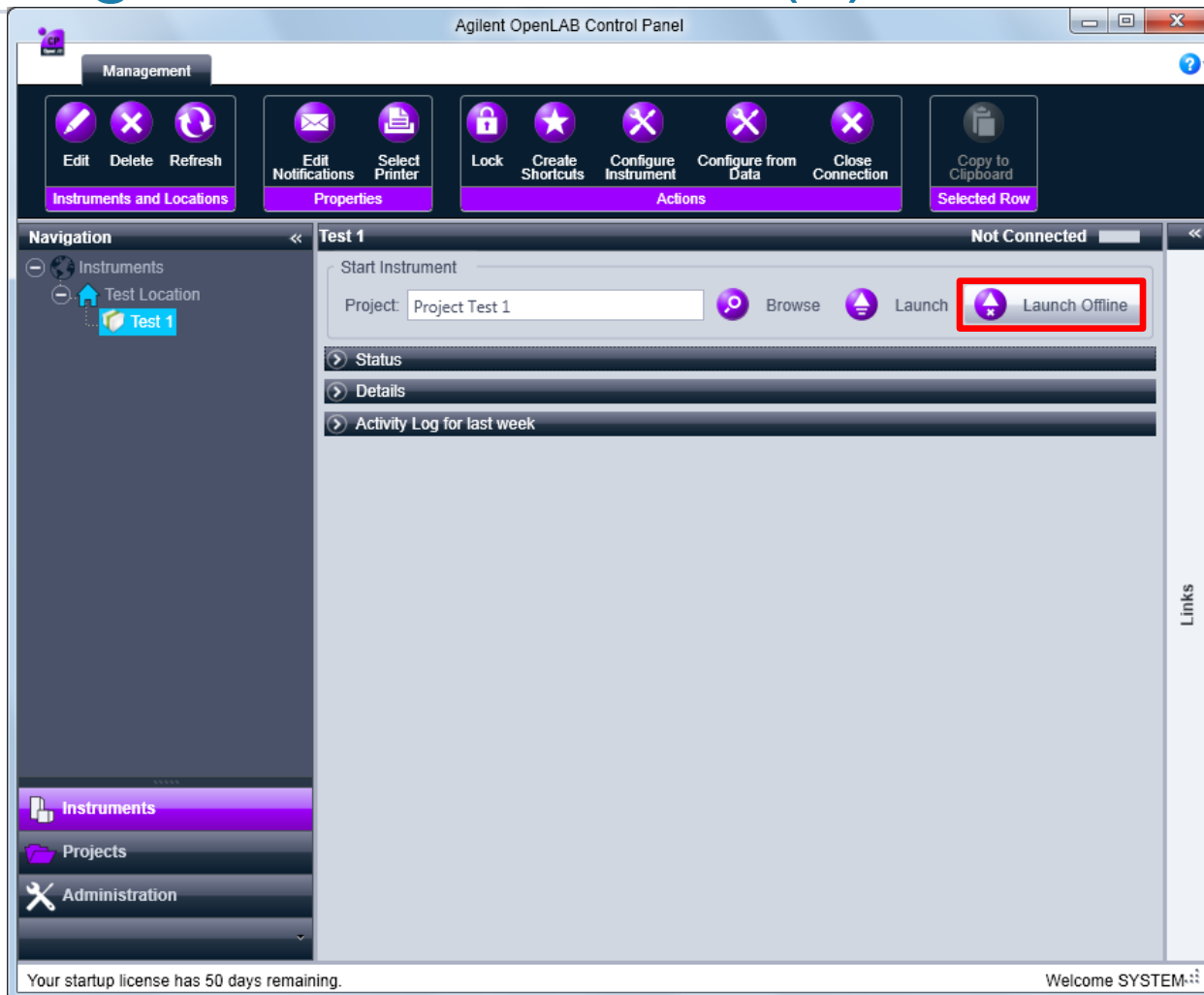
The main area displays a table titled "Test Location" with the following data:

Status	Name	Project	Location	Application	Type
>	Test 1	Project Test 1	Test Location	EZChrom	KNAUER
>	Virtual System	Project Test 1	Test Location	EZChrom	KNAUER

Red boxes highlight the "Test Location" folder in the navigation pane and the action icons (up, down, refresh) for the "Test 1" and "Virtual System" rows in the table.

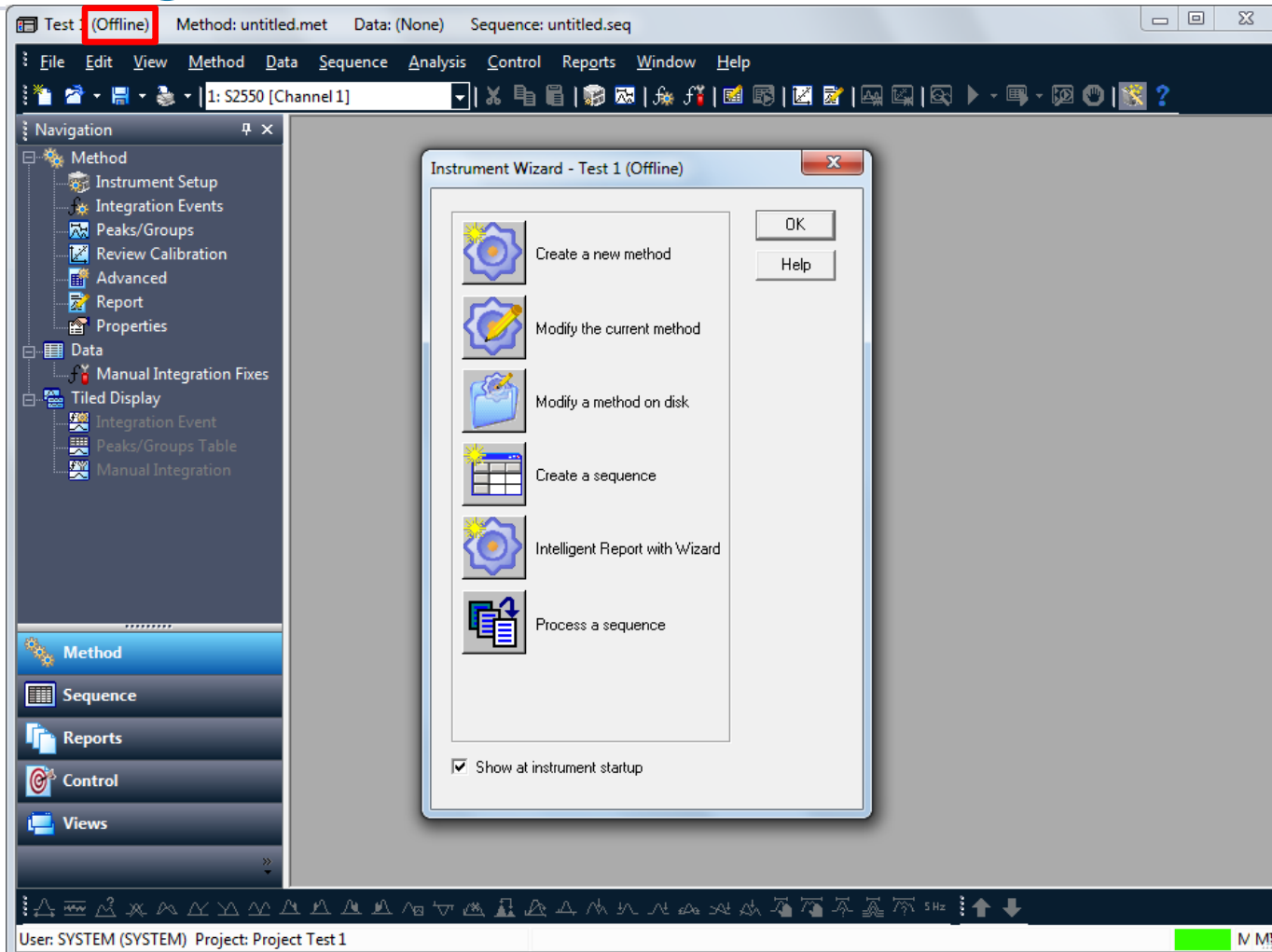
At the bottom of the window, a status bar indicates "Your startup license has 46 days remaining." and "Welcome SYSTEM-11".

# Starting of an instrument (3)



The screenshot displays the Agilent OpenLAB Control Panel interface. At the top, the title bar reads "Agilent OpenLAB Control Panel". Below this is a "Management" section with several functional groups of icons: "Instruments and Locations" (Edit, Delete, Refresh), "Properties" (Edit Notifications, Select Printer), "Actions" (Lock, Create Shortcuts, Configure Instrument, Configure from Data, Close Connection), and "Selected Row" (Copy to Clipboard). The main interface is divided into a "Navigation" sidebar on the left and a central workspace. The sidebar shows a tree view with "Instruments" expanded to "Test Location" and "Test 1" selected. The central workspace is titled "Test 1" and shows a "Start Instrument" section with a "Project" field containing "Project Test 1" and buttons for "Browse", "Launch", and "Launch Offline". The "Launch Offline" button is highlighted with a red rectangle. Below this are sections for "Status", "Details", and "Activity Log for last week". A "Links" sidebar is visible on the right. At the bottom, a status bar indicates "Your startup license has 50 days remaining." and "Welcome SYSTEM...".

# Starting of an instrument (4)

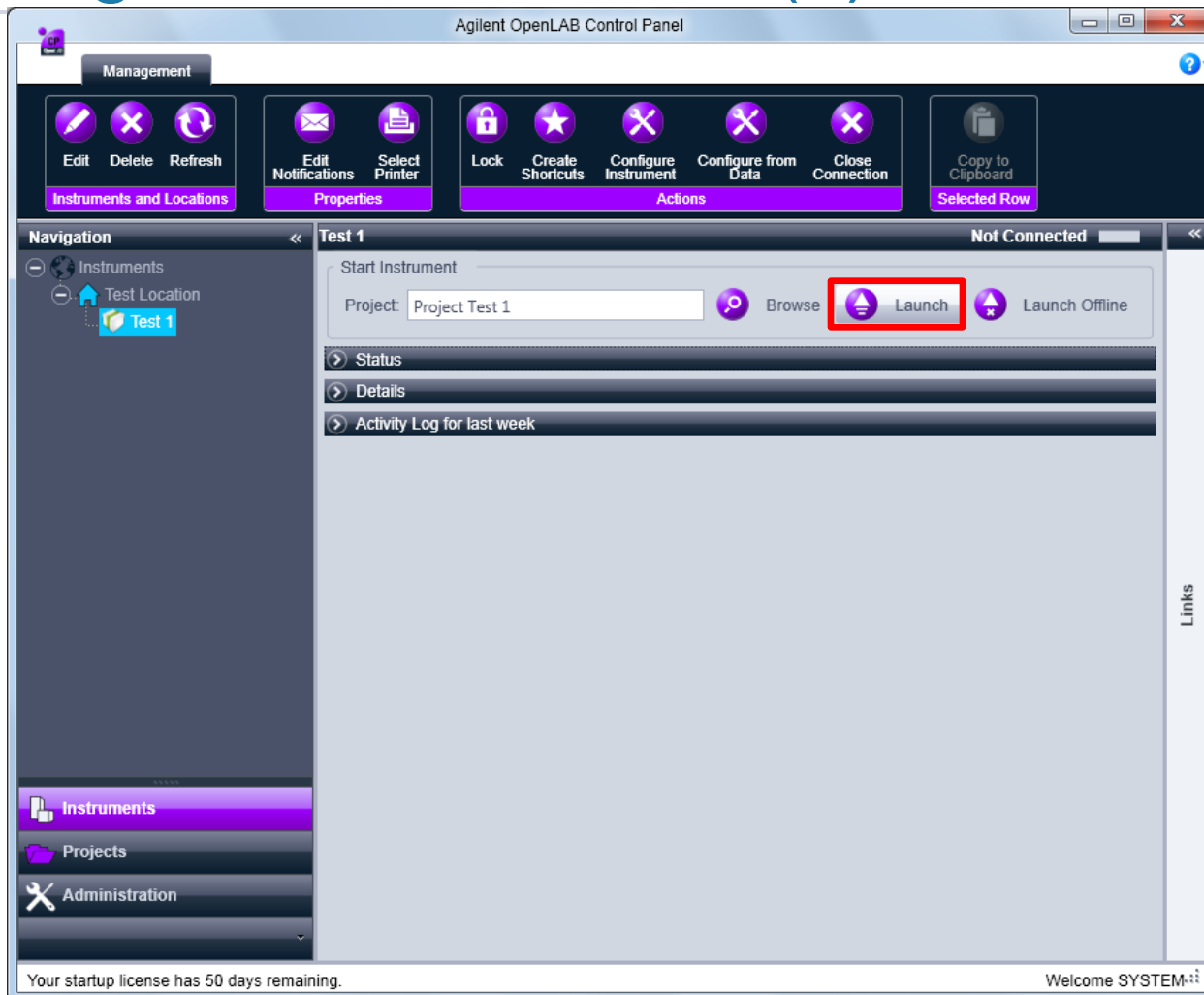


The screenshot displays the software interface with the 'Instrument Wizard - Test 1 (Offline)' dialog box open. The main window title bar shows 'Test: (Offline) Method: untitled.met Data: (None) Sequence: untitled.seq'. The menu bar includes File, Edit, View, Method, Data, Sequence, Analysis, Control, Reports, Window, and Help. The toolbar contains various icons for file operations and analysis. The left sidebar shows a navigation tree with categories like Method, Data, and Tiled Display. The 'Instrument Wizard' dialog box has the following options:

- Create a new method
- Modify the current method
- Modify a method on disk
- Create a sequence
- Intelligent Report with Wizard
- Process a sequence

At the bottom of the dialog box, there is a checked checkbox labeled 'Show at instrument startup'. The 'OK' and 'Help' buttons are located on the right side of the dialog box. The status bar at the bottom of the main window shows 'User: SYSTEM (SYSTEM) Project: Project Test 1' and a green progress indicator.

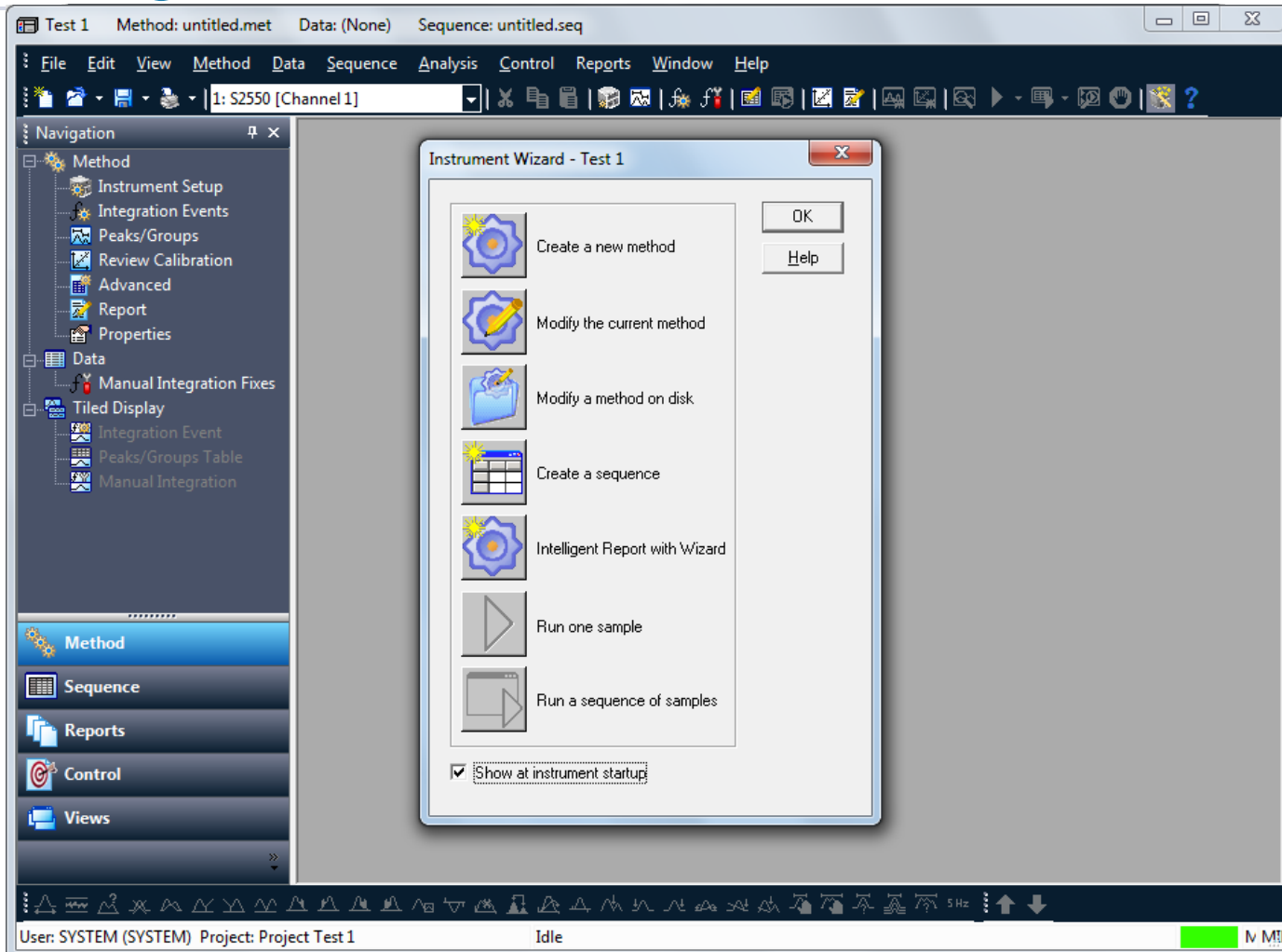
# Starting of an instrument (5)



The screenshot displays the Agilent OpenLAB Control Panel interface. At the top, the title bar reads "Agilent OpenLAB Control Panel". Below this is a "Management" section with several toolbars: "Instruments and Locations" (Edit, Delete, Refresh), "Properties" (Edit Notifications, Select Printer), "Actions" (Lock, Create Shortcuts, Configure Instrument, Configure from Data, Close Connection), and "Selected Row" (Copy to Clipboard). The main area is divided into "Navigation" (Instruments, Test Location, Test 1) and "Test 1" (Not Connected). The "Start Instrument" section includes a "Project" field with "Project Test 1" and buttons for "Browse", "Launch" (highlighted with a red box), and "Launch Offline". Below this are sections for "Status", "Details", and "Activity Log for last week". A "Links" sidebar is visible on the right. At the bottom, a status bar indicates "Your startup license has 50 days remaining." and "Welcome SYSTEM...".



# Starting of an instrument (6)



Test 1 Method: untitled.met Data: (None) Sequence: untitled.seq

File Edit View Method Data Sequence Analysis Control Reports Window Help

1: S2550 [Channel 1]

Navigation

- Method
  - Instrument Setup
  - Integration Events
  - Peaks/Groups
  - Review Calibration
  - Advanced
  - Report
  - Properties
- Data
  - Manual Integration Fixes
- Tiled Display
  - Integration Event
  - Peaks/Groups Table
  - Manual Integration

Method

Sequence

Reports

Control

Views

Instrument Wizard - Test 1

- Create a new method
- Modify the current method
- Modify a method on disk
- Create a sequence
- Intelligent Report with Wizard
- Run one sample
- Run a sequence of samples

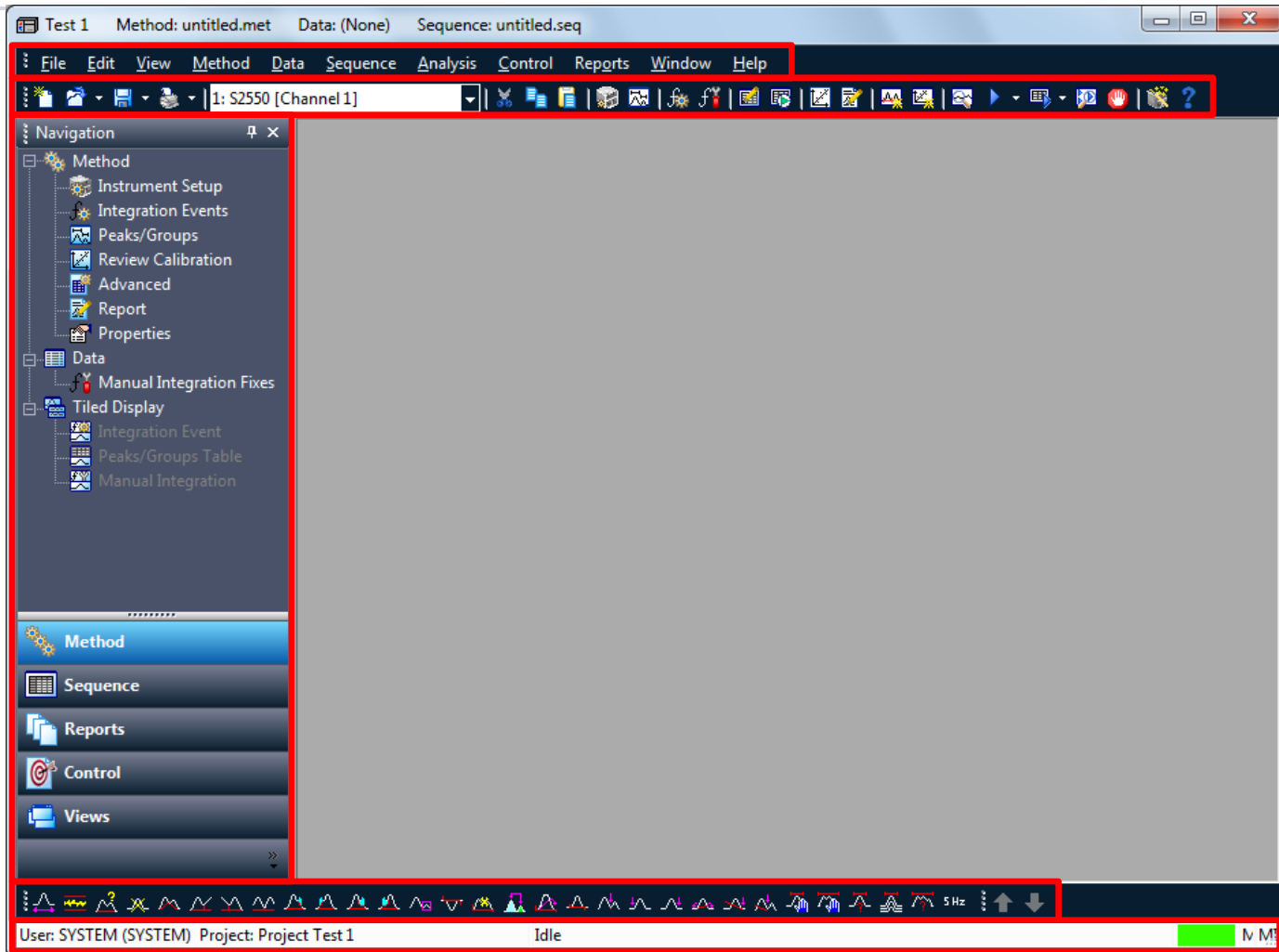
OK

Help

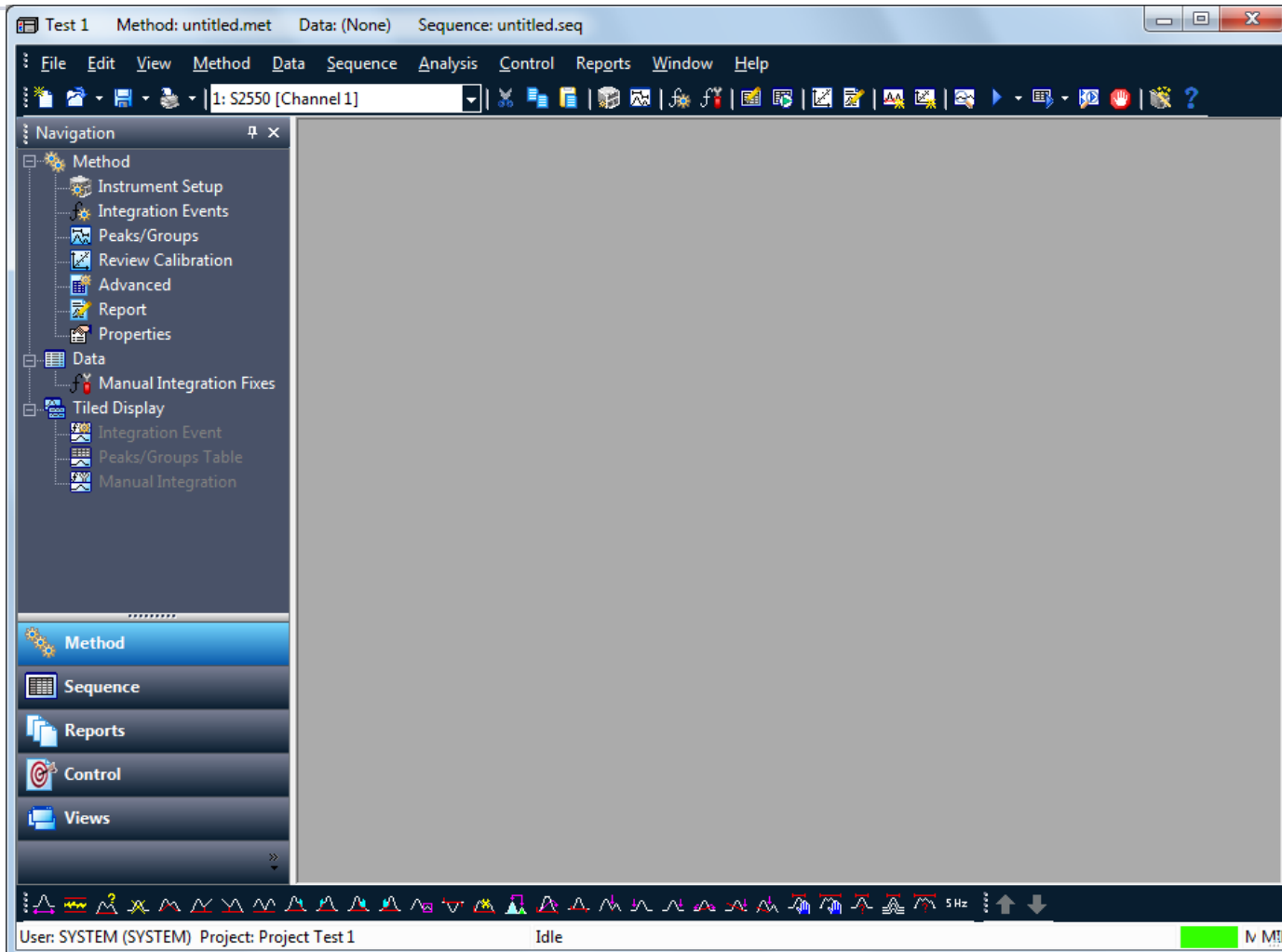
Show at instrument startup

User: SYSTEM (SYSTEM) Project: Project Test 1 Idle

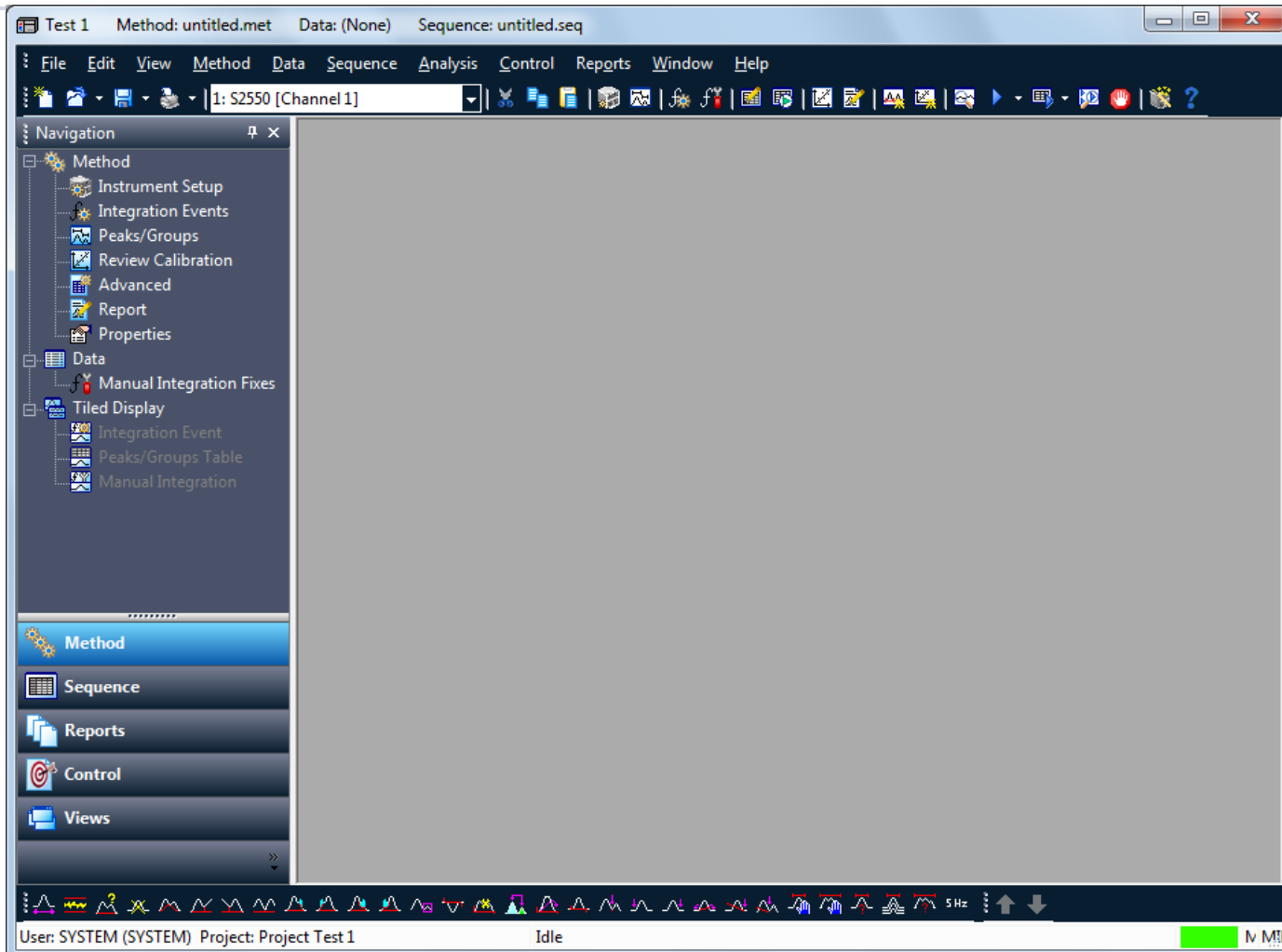
# Method Setup (1)



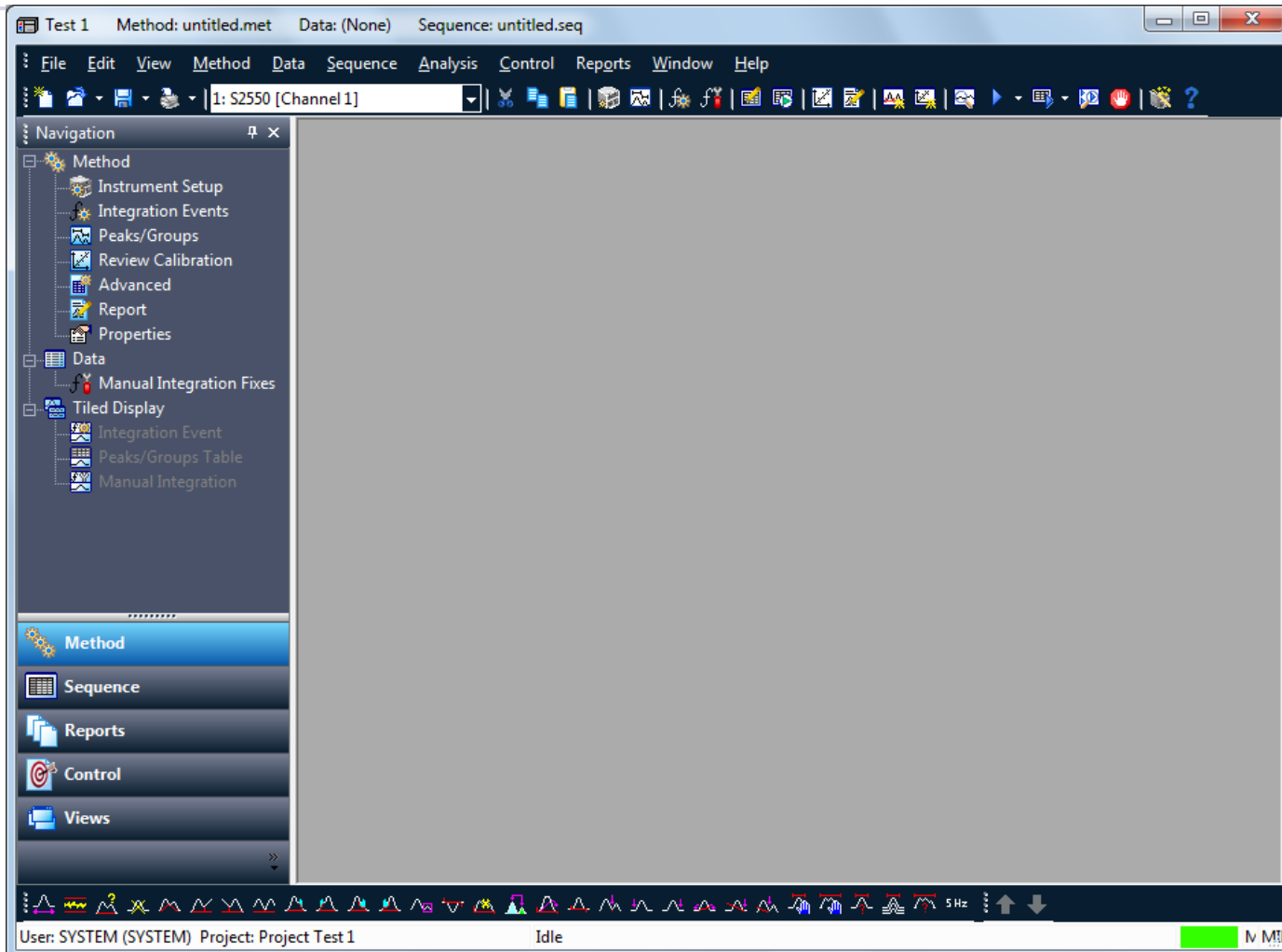
# Method Setup (2)



# Method Setup (3)



# Method Setup (4)



# Method Setup (5)

Test 1 Method: untitled.met Data: (None) Sequence: untitled.seq - [Instrument Setup]

File Edit View Method Data Sequence Analysis Control Reports Window Help

1: S2550 [Channel 1]

Navigation

- Method
  - Instrument Setup
  - Integration Events
  - Peaks/Groups
  - Review Calibration
  - Advanced
  - Report
  - Properties
- Data
  - Manual Integration Fixes
- Tiled Display
  - Integration Event
  - Peaks/Groups Table
  - Manual Integration

Method

Sequence

Reports

Control

Views

S1050 S3950 S2550 Aux Traces Trigger

Working Mode  
LPG Cycle Time (sec): 2.0

Control Pressure Limits (MPa)  
Min: 0.0 Max: 0.0

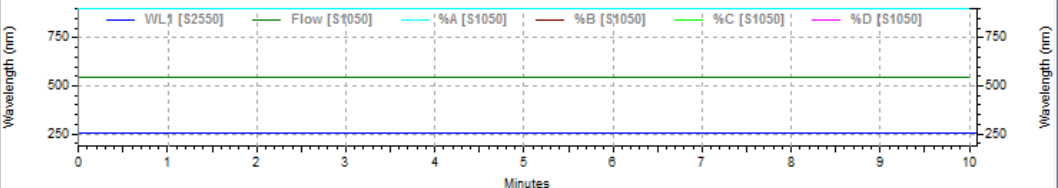
Solvent(s)  
A:    
B:    
C:    
D:

No Action at the end of run  Pretreatment Setup ... Solvent Type ...

Pump Program

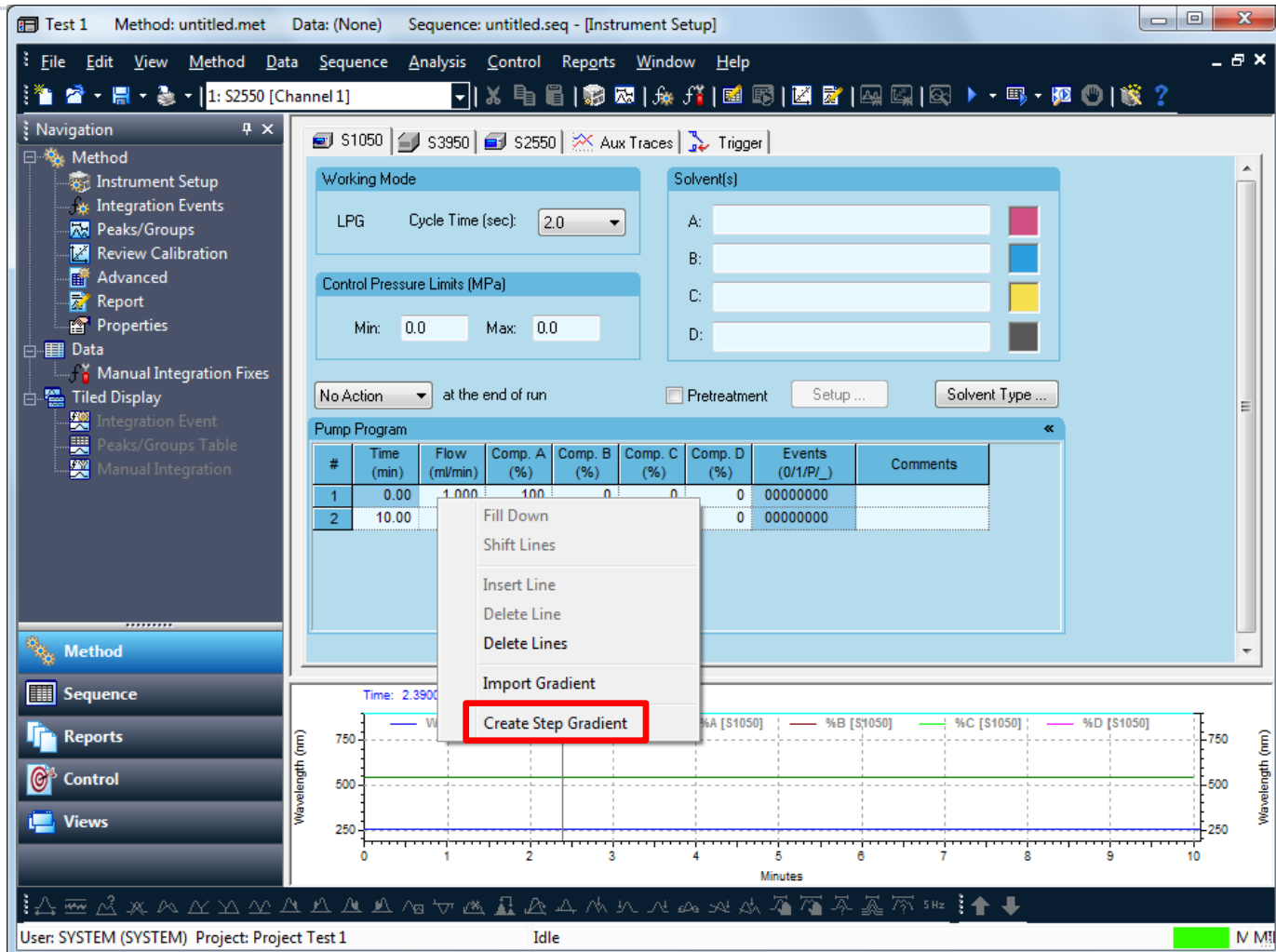
#	Time (min)	Flow (ml/min)	Comp. A (%)	Comp. B (%)	Comp. C (%)	Comp. D (%)	Events (0/1/P/_)	Comments
1	0.00	1.000	100	0	0	0	00000000	
2	10.00	1.000	100	0	0	0	00000000	

Wavelength (nm) vs Minutes



User: SYSTEM (SYSTEM) Project: Project Test 1 Idle M M!

# Method Setup (6)



The screenshot shows the 'Method Setup' window for 'Test 1'. The 'Pump Program' table is as follows:

#	Time (min)	Flow (ml/min)	Comp. A (%)	Comp. B (%)	Comp. C (%)	Comp. D (%)	Events (0/1/P/_)	Comments
1	0.00	1.000	100	0	0	0	00000000	
2	10.00						00000000	

The graph below the table shows the solvent composition over time (0 to 10 minutes). The y-axis is 'Wavelength (nm)' ranging from 250 to 750. The x-axis is 'Minutes'. A context menu is open over the table, with 'Create Step Gradient' highlighted in red.

# Method Setup (7)

---

Create Gradient Dialog

Gradient Settings

Gradient Type: 0/5/10/50/90/95/100

Mode: Full

Components: A/B

Flow (ml/min): 1.000

Step Duration (min): 5.00

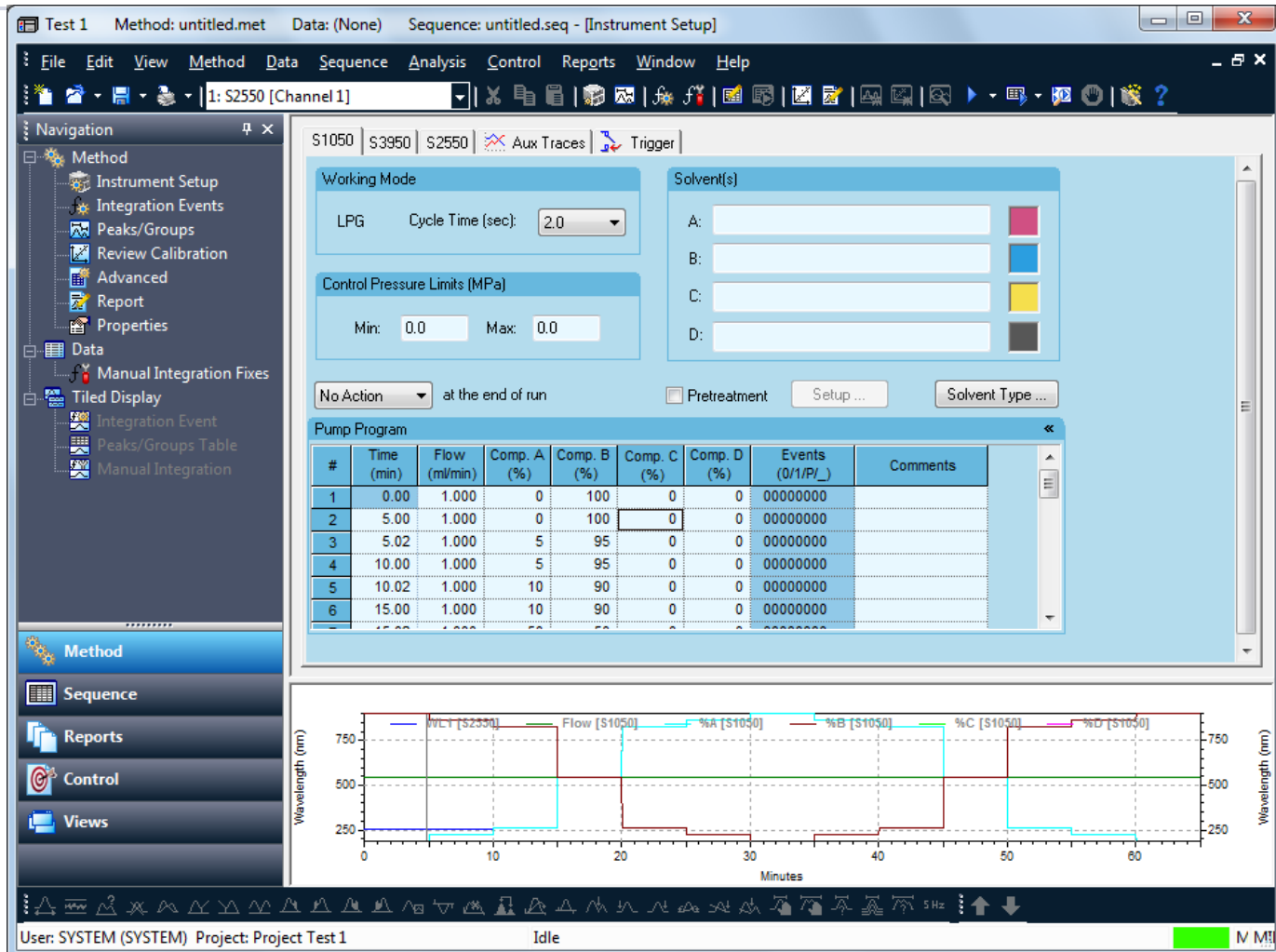
Step Transition (min): 0.02

OK

Cancel



# Method Setup (8)



Test 1 Method: untitled.met Data: (None) Sequence: untitled.seq - [Instrument Setup]

File Edit View Method Data Sequence Analysis Control Reports Window Help

1: S2550 [Channel 1]

Navigation

- Method
  - Instrument Setup
  - Integration Events
  - Peaks/Groups
  - Review Calibration
  - Advanced
  - Report
  - Properties
- Data
  - Manual Integration Fixes
- Tiled Display
  - Integration Event
  - Peaks/Groups Table
  - Manual Integration

Method

Sequence

Reports

Control

Views

S1050 | S3950 | S2550 | Aux Traces | Trigger

Working Mode  
LPG Cycle Time (sec): 2.0

Solvent(s)  
A:    
B:    
C:    
D:

Control Pressure Limits (MPa)  
Min: 0.0 Max: 0.0

No Action at the end of run  Pretreatment Setup ... Solvent Type ...

Pump Program

#	Time (min)	Flow (ml/min)	Comp. A (%)	Comp. B (%)	Comp. C (%)	Comp. D (%)	Events (0/1/P/_)	Comments
1	0.00	1.000	0	100	0	0	00000000	
2	5.00	1.000	0	100	0	0	00000000	
3	5.02	1.000	5	95	0	0	00000000	
4	10.00	1.000	5	95	0	0	00000000	
5	10.02	1.000	10	90	0	0	00000000	
6	15.00	1.000	10	90	0	0	00000000	

Wavelength (nm) vs Minutes

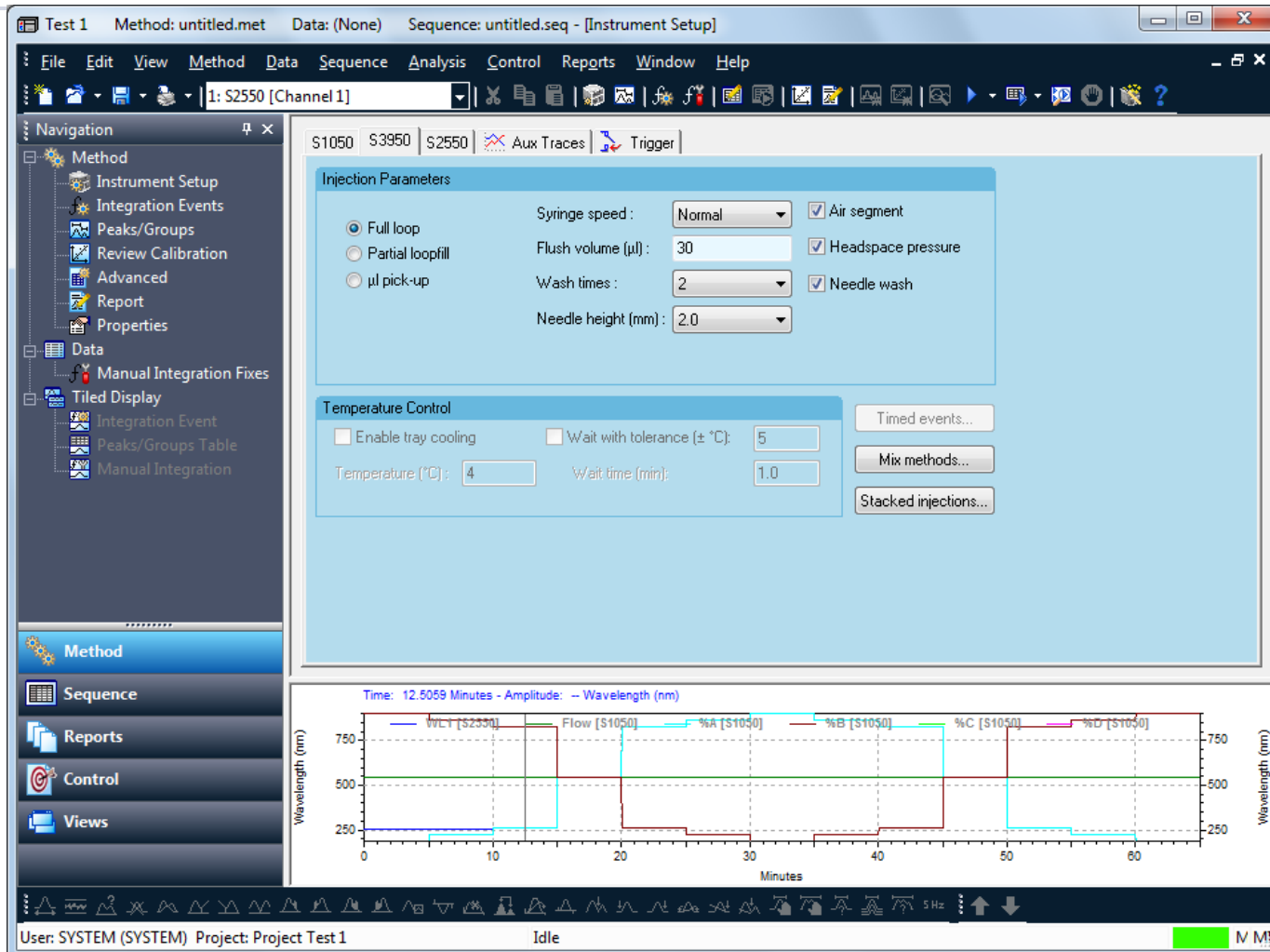
750  
500  
250

0 10 20 30 40 50 60

Minutes

User: SYSTEM (SYSTEM) Project: Project Test 1 Idle M M!

# Method Setup (9)



**Navigation**

- Method
  - Instrument Setup
  - Integration Events
  - Peaks/Groups
  - Review Calibration
  - Advanced
  - Report
  - Properties
- Data
  - Manual Integration Fixes
- Tiled Display
  - Integration Event
  - Peaks/Groups Table
  - Manual Integration

**Method Setup**

Method: untitled.met | Data: (None) | Sequence: untitled.seq - [Instrument Setup]

File Edit View Method Data Sequence Analysis Control Reports Window Help

1: S2550 [Channel 1]

S1050 S3950 S2550 Aux Traces Trigger

**Injection Parameters**

- Full loop
  - Syringe speed: Normal
  - Flush volume (µl): 30
  - Wash times: 2
  - Needle height (mm): 2.0
- Partial loopfill
  - Air segment
    - Headspace pressure
      - Needle wash
- µl pick-up
  - Air segment
    - Headspace pressure
      - Needle wash

**Temperature Control**

- Enable tray cooling
  - Wait with tolerance (± °C): 5
    - Temperature (°C): 4
    - Wait time (min): 1.0

Timed events...  
Mix methods...  
Stacked injections...

**Chromatogram**

Time: 12.5059 Minutes - Amplitude: -- Wavelength (nm)

Wavelength (nm) vs. Minutes

750  
500  
250

0 10 20 30 40 50 60

Minutes

Wavelength (nm)

Legend: WLC [S2550], Flow [S1050], %A [S1050], %B [S1050], %C [S1050], %D [S1050]

User: SYSTEM (SYSTEM) Project: Project Test 1 Idle M M!

# Method Setup (10)

Test 1 Method: untitled.met Data: (None) Sequence: untitled.seq - [Instrument Setup]

File Edit View Method Data Sequence Analysis Control Reports Window Help

1: S2550 [Channel 1]

Navigation

- Method
  - Instrument Setup
  - Integration Events
  - Peaks/Groups
  - Review Calibration
  - Advanced
  - Report
  - Properties
- Data
  - Manual Integration Fixes
- Tiled Display
  - Integration Event
  - Peaks/Groups Table
  - Manual Integration

Method

Sequence

Reports

Control

Views

S1050 | S3950 | S2550 | Aux Traces | Trigger

Acquisition

Time constant: 1.00 Sec

Sampling Rate: 1 Hz

Suitable for minimum peak width at base of: 0.333 Min

Run time: 10.0 Min

Acquisition delay: 0.0 Min

Wavelength Program

Used Channels:  #1

#	Time (min)	Wave-length 1	Events (O/I/P/_)	Comments
1	0.00	254	0000	
2	10.00	254	0000	

Scan, nm [Range 190 - 900 nm]

Start 200 End 500 Advanced...

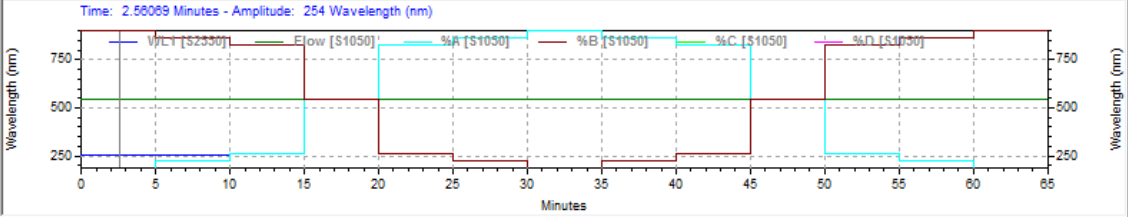
Acquire 3D data

Options

Autozero at start No Action at the end of run

Autozero at WL change

Time: 2.58069 Minutes - Amplitude: 254 Wavelength (nm)

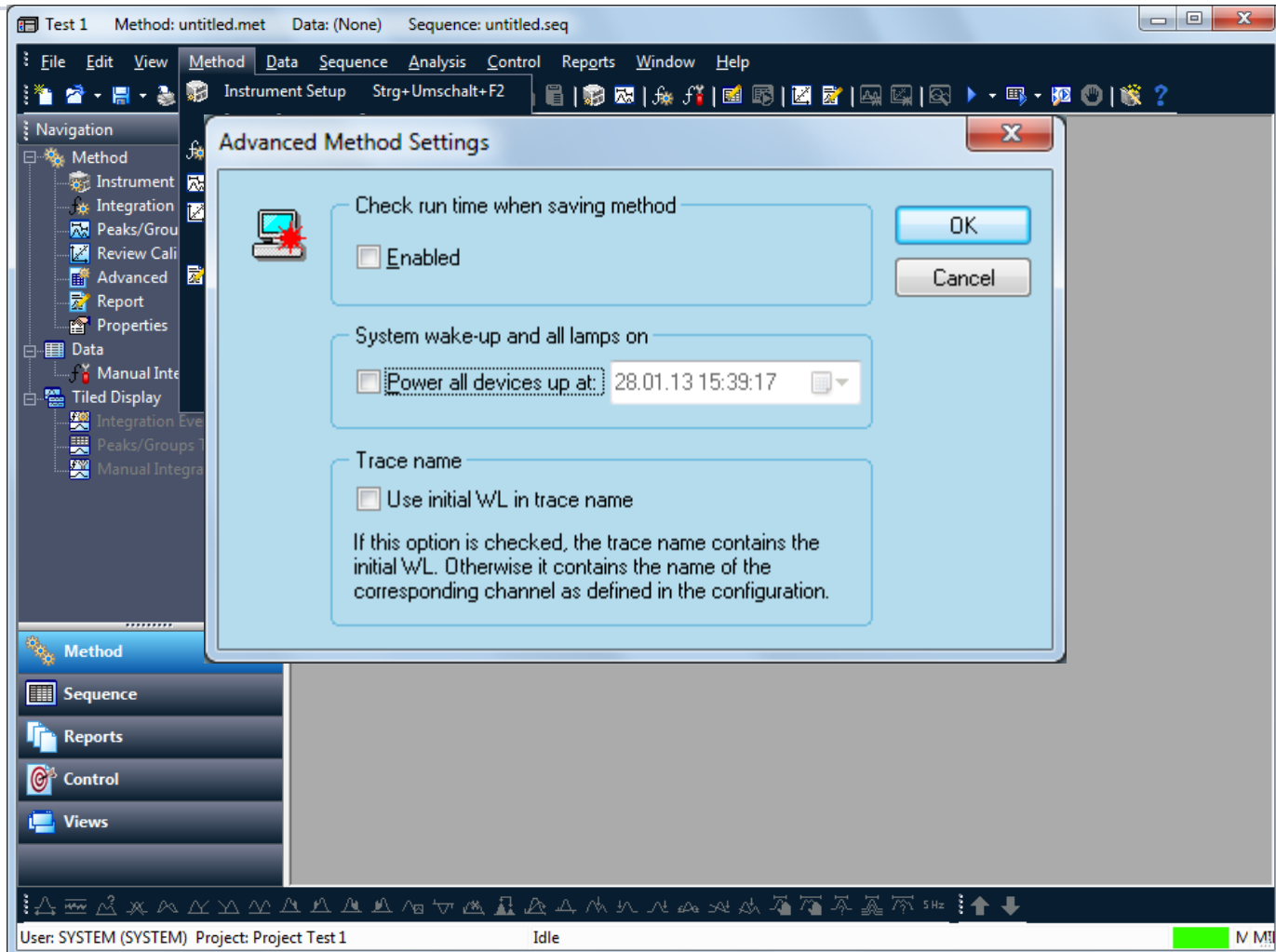


Wavelength (nm)

Minutes

User: SYSTEM (SYSTEM) Project: Project Test 1 Idle M M!

# Method Setup (11)




Test 1 Method: untitled.met Data: (None) Sequence: untitled.seq

File Edit View Method Data Sequence Analysis Control Reports Window Help

Instrument Setup Strg+Umschalt+F2

### Advanced Method Settings

 Check run time when saving method  Enabled OK Cancel

System wake-up and all lamps on  Power all devices up at: 28.01.13 15:39:17

Trace name  Use initial WL in trace name

If this option is checked, the trace name contains the initial WL. Otherwise it contains the name of the corresponding channel as defined in the configuration.

Navigation

- Method
  - Instrument
  - Integration
  - Peaks/Group
  - Review Cali
  - Advanced
  - Report
  - Properties
- Data
  - Manual Inte
- Tiled Display
- Integration Eve
- Peaks/Groups 1
- Manual Integra

Method

Sequence

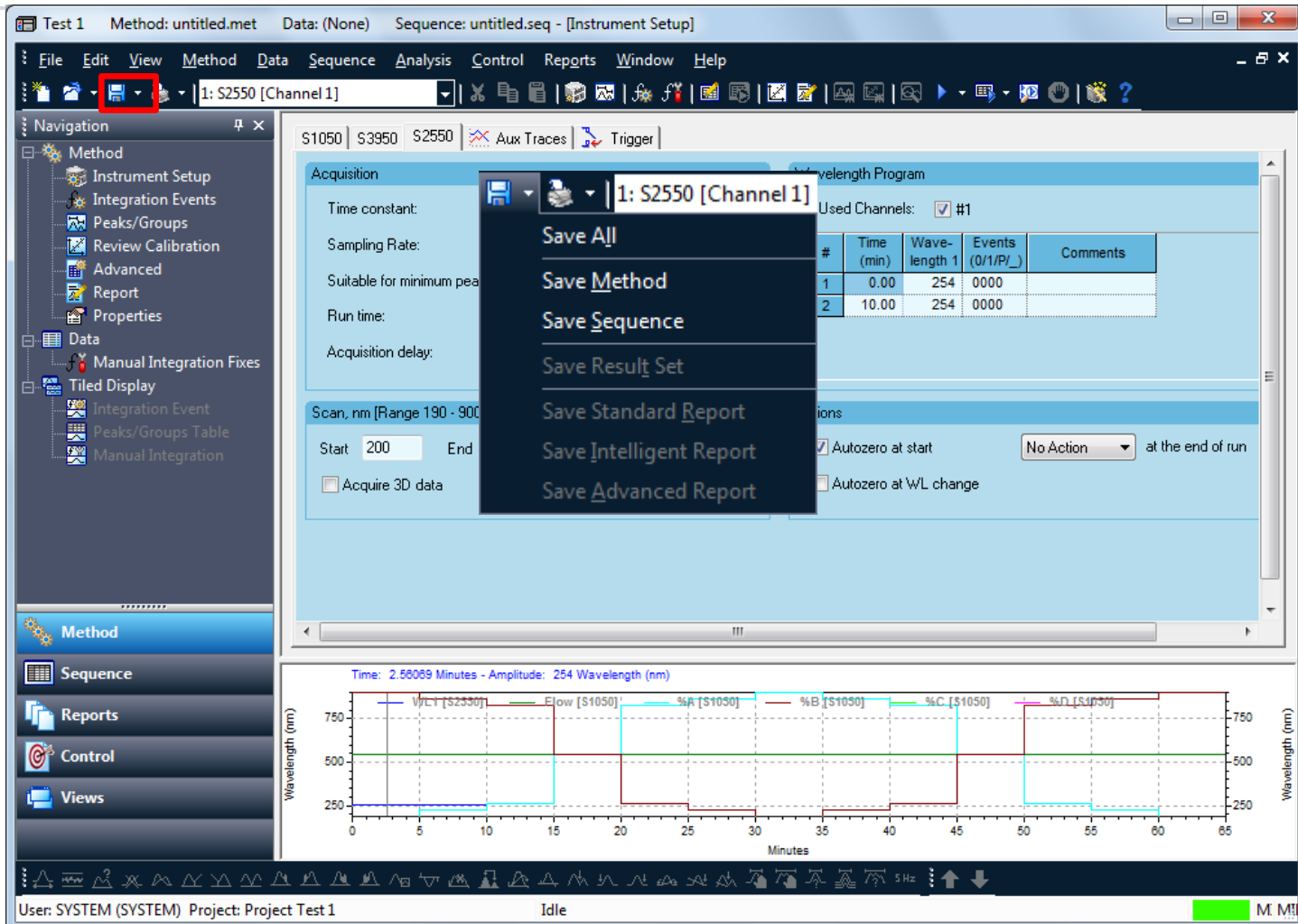
Reports

Control

Views

User: SYSTEM (SYSTEM) Project: Project Test 1 Idle

# Method Setup (12)



Test 1 Method: untitled.met Data: (None) Sequence: untitled.seq - [Instrument Setup]

File Edit View Method Data Sequence Analysis Control Reports Window Help

1: S2550 [Channel 1]

Navigation

- Method
  - Instrument Setup
  - Integration Events
  - Peaks/Groups
  - Review Calibration
  - Advanced Report
  - Properties
- Data
  - Manual Integration Fixes
  - Tiled Display
    - Integration Event
    - Peaks/Groups Table
    - Manual Integration

Method Setup

Acquisition

Time constant:

Sampling Rate:

Suitable for minimum peak:

Run time:

Acquisition delay:

Scan, nm [Range 190 - 900]

Start 200 End

Acquire 3D data

Wavelength Program

Used Channels:  #1

#	Time (min)	Wave-length 1	Events (O/I/P/_)	Comments
1	0.00	254	0000	
2	10.00	254	0000	

Autozero at start  No Action at the end of run

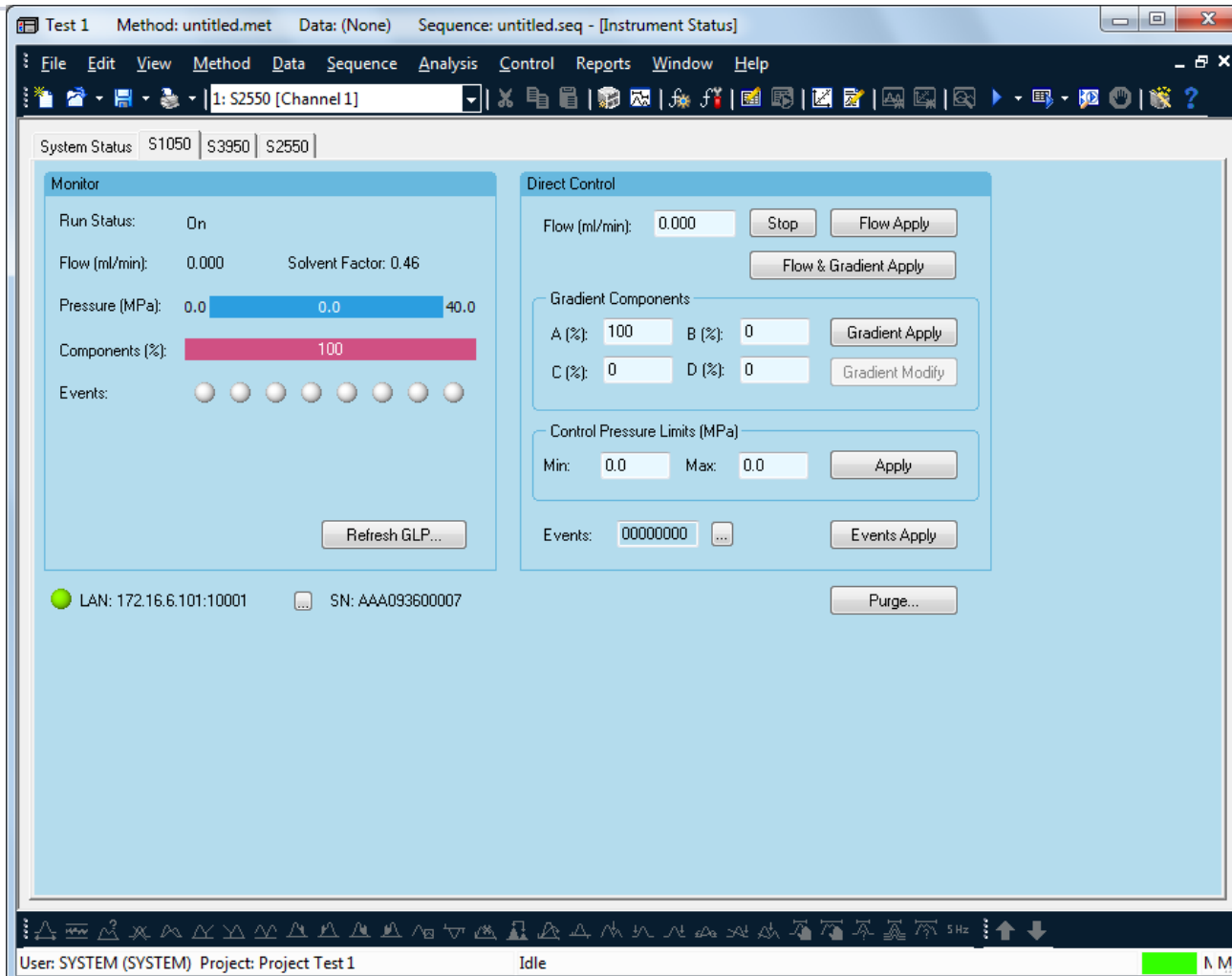
Autozero at WL change

Time: 2.58069 Minutes - Amplitude: 254 Wavelength (nm)

Wavelength (nm) vs Minutes graph showing a step function with labels: %A [S1050], %B [S1050], %C [S1050], %D [S1050], %E [S2550], %F [S1050]

User: SYSTEM (SYSTEM) Project: Project Test 1 Idle M.M!

# Instrument Status (1)



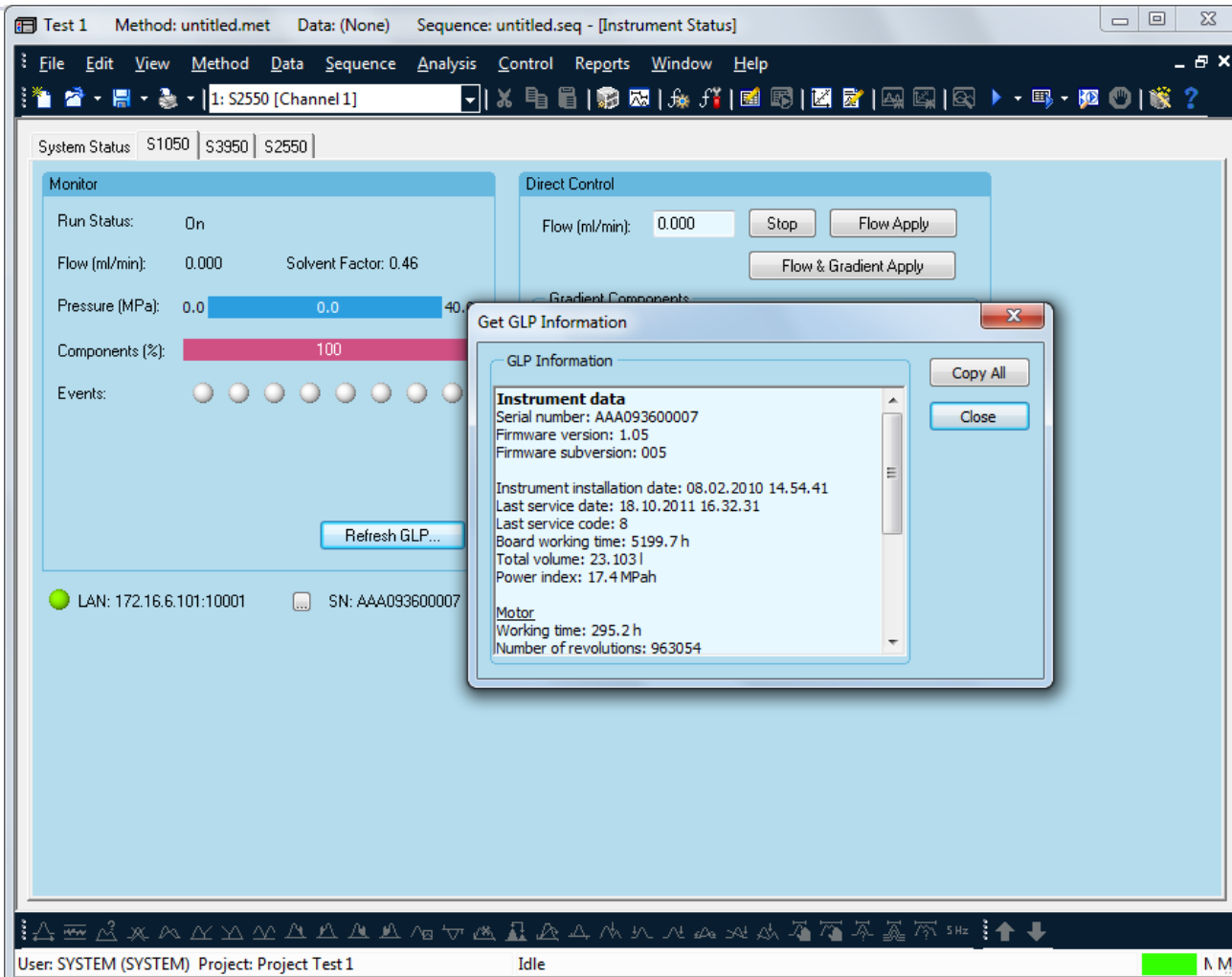
The screenshot displays the KNAUER instrument control software interface. The window title is "Test 1 Method: untitled.met Data: (None) Sequence: untitled.seq - [Instrument Status]". The menu bar includes File, Edit, View, Method, Data, Sequence, Analysis, Control, Reports, Window, and Help. The toolbar contains various icons for file operations and control functions.

The main interface is divided into several sections:

- System Status:** Shows S1050 | S3950 | S2550.
- Monitor:** Displays Run Status: On, Flow (ml/min): 0.000, Solvent Factor: 0.46, Pressure (MPa): 0.0 (with a bar chart showing 0.0 to 40.0), Components (%): 100 (with a bar chart), and Events: 8 indicator lights. A "Refresh GLP..." button is located at the bottom.
- Direct Control:** Includes Flow (ml/min) control with a "Stop" button and "Flow Apply" button, and a "Flow & Gradient Apply" button.
- Gradient Components:** Shows A (%): 100, B (%): 0, C (%): 0, D (%): 0, with "Gradient Apply" and "Gradient Modify" buttons.
- Control Pressure Limits (MPa):** Shows Min: 0.0, Max: 0.0, with an "Apply" button.
- Events:** Shows 00000000 with an "Events Apply" button.
- Purge:** A "Purge..." button is located at the bottom right.

At the bottom of the interface, the LAN status is shown as "LAN: 172.16.6.101:10001" and the SN as "SN: AAA093600007". The status bar at the very bottom indicates "User: SYSTEM (SYSTEM) Project: Project Test 1 Idle" and "N.M!!".

# Instrument Status (2)



The screenshot displays the KNAUER instrument control software interface. The main window shows the following information:

- System Status:** S1050 | S3950 | S2550
- Monitor Panel:**
  - Run Status: On
  - Flow (ml/min): 0.000
  - Solvent Factor: 0.46
  - Pressure (MPa): 0.0
  - Components (%): 100
  - Events: 8 indicator lights
  - Refresh GLP... button
  - LAN: 172.16.6.101:10001
  - SN: AAA093600007
- Direct Control Panel:**
  - Flow (ml/min): 0.000
  - Buttons: Stop, Flow Apply, Flow & Gradient Apply

A 'Get GLP Information' dialog box is open, displaying the following data:

**GLP Information**

**Instrument data**

- Serial number: AAA093600007
- Firmware version: 1.05
- Firmware subversion: 005
- Instrument installation date: 08.02.2010 14.54.41
- Last service date: 18.10.2011 16.32.31
- Last service code: 8
- Board working time: 5199.7 h
- Total volume: 23.103 l
- Power index: 17.4 MPah

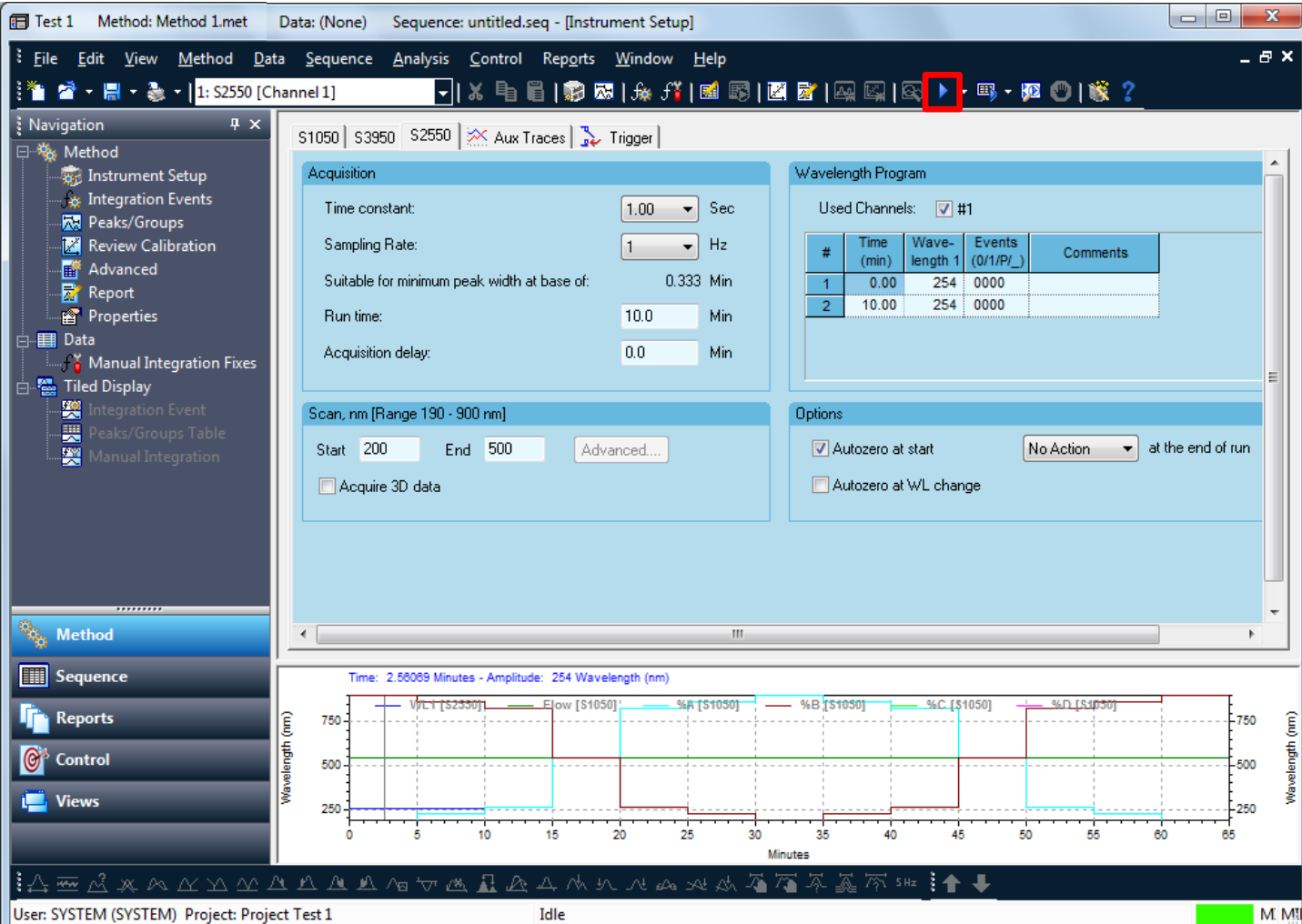
**Motor**

- Working time: 295.2 h
- Number of revolutions: 963054

The dialog box includes 'Copy All' and 'Close' buttons.

The bottom status bar shows: User: SYSTEM (SYSTEM) Project: Project Test 1 Idle

# Single Run (1)



Test 1 Method: Method 1.met Data: (None) Sequence: untitled.seq - [Instrument Setup]

File Edit View Method Data Sequence Analysis Control Reports Window Help

1: S2550 [Channel 1]

Navigation

- Method
  - Instrument Setup
  - Integration Events
  - Peaks/Groups
  - Review Calibration
  - Advanced
  - Report
  - Properties
- Data
  - Manual Integration Fixes
- Tiled Display
  - Integration Event
  - Peaks/Groups Table
  - Manual Integration

Method

Sequence

Reports

Control

Views

S1050 | S3950 | S2550 | Aux Traces | Trigger

Acquisition

Time constant: 1.00 Sec

Sampling Rate: 1 Hz

Suitable for minimum peak width at base of: 0.333 Min

Run time: 10.0 Min

Acquisition delay: 0.0 Min

Wavelength Program

Used Channels:  #1

#	Time (min)	Wave-length 1	Events (O/I/P/_)	Comments
1	0.00	254	0000	
2	10.00	254	0000	

Scan, nm [Range 190 - 900 nm]

Start 200 End 500 Advanced...

Acquire 3D data

Options

Autozero at start No Action at the end of run

Autozero at WL change

Time: 2.58069 Minutes - Amplitude: 254 Wavelength (nm)

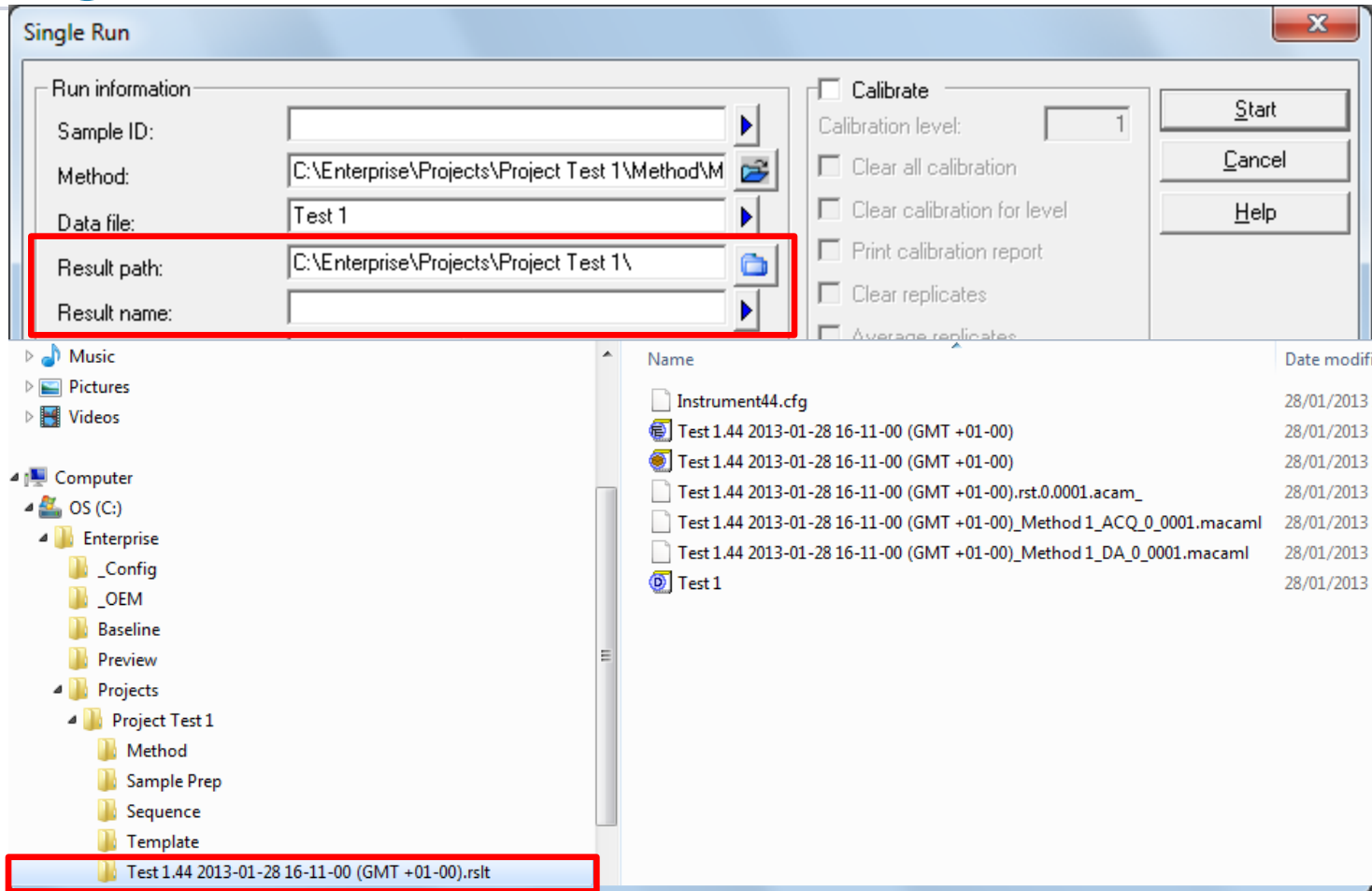
Wavelength (nm)

Minutes

User: SYSTEM (SYSTEM) Project: Project Test 1 Idle M M!



# Single Run (2)



**Single Run**

Run information

Sample ID:

Method:

Data file:

**Result path:**

Result name:

Calibrate

Calibration level:

Clear all calibration

Clear calibration for level

Print calibration report

Clear replicates

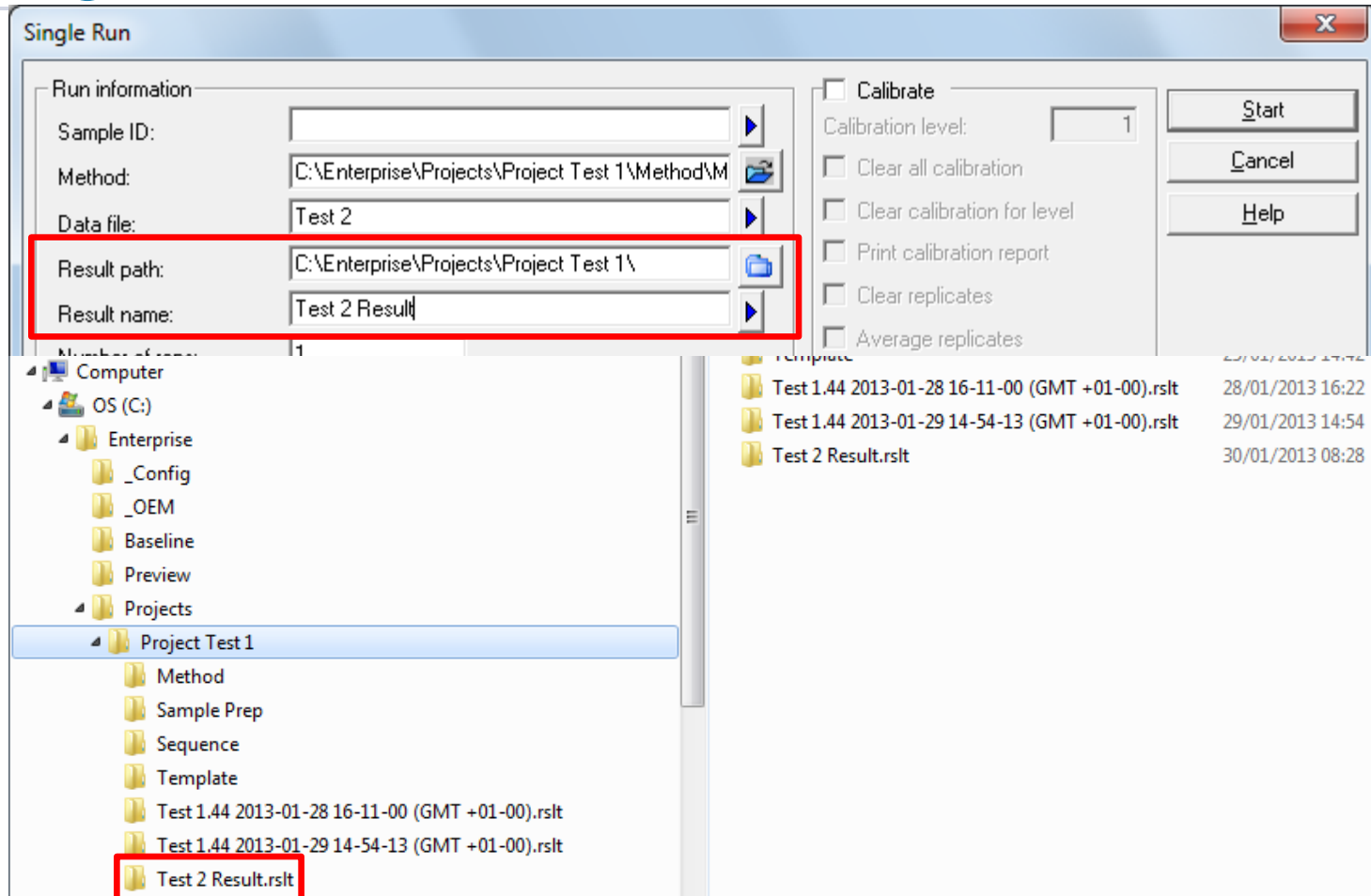
Average replicates

File Explorer:

- Music
- Pictures
- Videos
- Computer
  - OS (C:)
    - Enterprise
      - \_Config
      - \_OEM
      - Baseline
      - Preview
      - Projects
        - Project Test 1
          - Method
          - Sample Prep
          - Sequence
          - Template
          - Test 1.44 2013-01-28 16-11-00 (GMT +01-00).rslt**

Name	Date modified
Instrument44.cfg	28/01/2013
Test 1.44 2013-01-28 16-11-00 (GMT +01-00)	28/01/2013
Test 1.44 2013-01-28 16-11-00 (GMT +01-00)	28/01/2013
Test 1.44 2013-01-28 16-11-00 (GMT +01-00).rst.0.0001.acam_	28/01/2013
Test 1.44 2013-01-28 16-11-00 (GMT +01-00)_Method 1_ACQ_0_0001.macaml	28/01/2013
Test 1.44 2013-01-28 16-11-00 (GMT +01-00)_Method 1_DA_0_0001.macaml	28/01/2013
Test 1	28/01/2013

# Single Run (3)



**Single Run**

Run information

Sample ID:

Method: C:\Enterprise\Projects\Project Test 1\Method\M

Data file: Test 2

**Result path: C:\Enterprise\Projects\Project Test 1\**

**Result name: Test 2 Result**

Calibrate

Calibration level:

Clear all calibration

Clear calibration for level

Print calibration report

Clear replicates

Average replicates

Number of replicates: 1

Computer

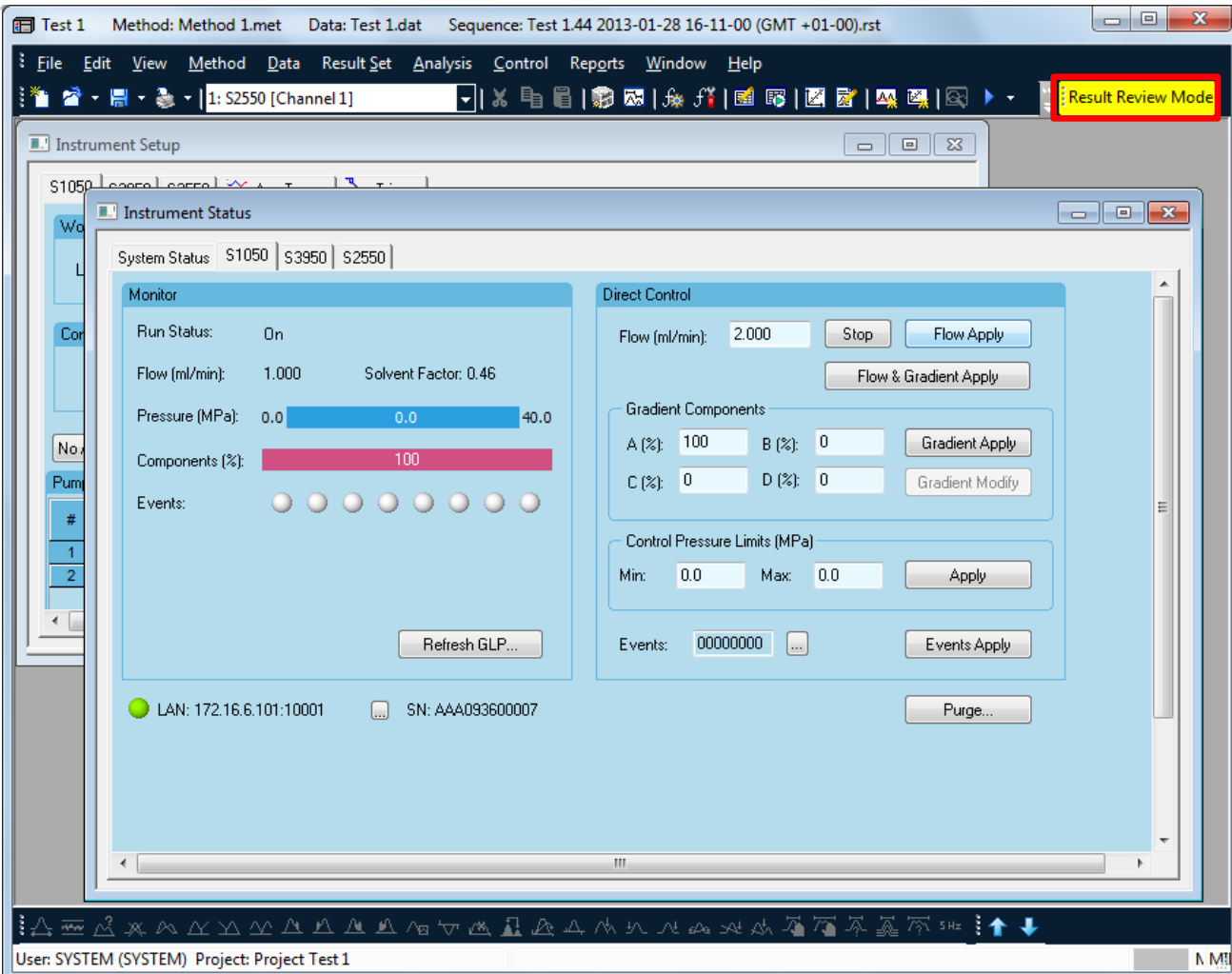
- OS (C:)
  - Enterprise
    - \_Config
    - \_OEM
    - Baseline
    - Preview
    - Projects
      - Project Test 1**
        - Method
        - Sample Prep
        - Sequence
        - Template
        - Test 1.44 2013-01-28 16-11-00 (GMT +01-00).rslt
        - Test 1.44 2013-01-29 14-54-13 (GMT +01-00).rslt
        - Test 2 Result.rslt**

Test 1.44 2013-01-28 16-11-00 (GMT +01-00).rslt 28/01/2013 16:22

Test 1.44 2013-01-29 14-54-13 (GMT +01-00).rslt 29/01/2013 14:54

Test 2 Result.rslt 30/01/2013 08:28

# Single Run (4)



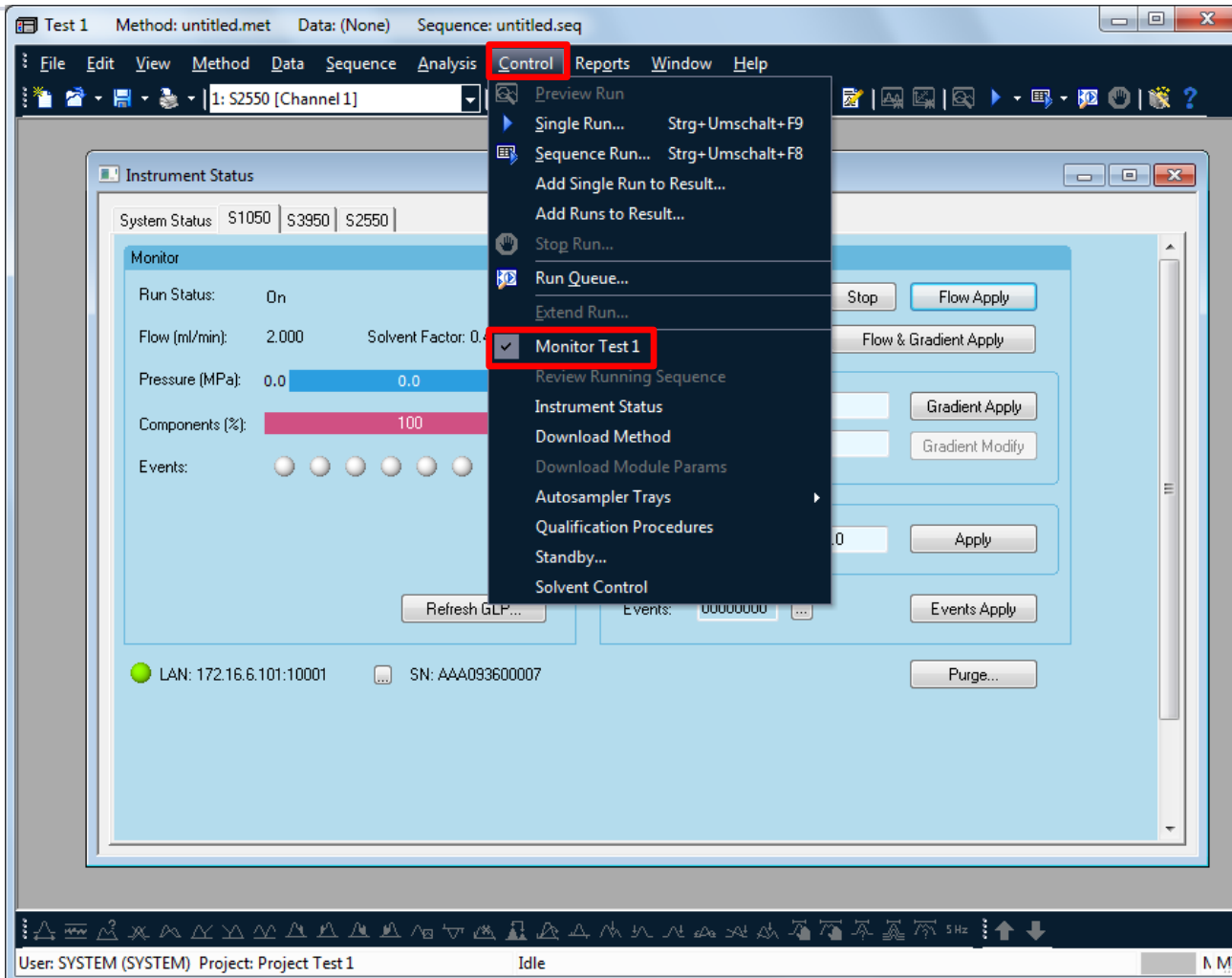
The screenshot displays the HPLC software interface. At the top, the window title bar shows 'Test 1 Method: Method 1.met Data: Test 1.dat Sequence: Test 1.44 2013-01-28 16-11-00 (GMT +01-00).rst'. The menu bar includes File, Edit, View, Method, Data, Result Set, Analysis, Control, Reports, Window, and Help. A toolbar contains various icons for file operations and system control. A yellow box highlights the 'Result Review Mode' indicator in the top right corner.

The 'Instrument Status' window is open, showing the following details:

- System Status:** S1050 | S3950 | S2550
- Monitor:**
  - Run Status: On
  - Flow (ml/min): 1.000 Solvent Factor: 0.46
  - Pressure (MPa): 0.0 / 0.0 / 40.0
  - Components (%): 100
  - Events: 8 indicator lights
- Direct Control:**
  - Flow (ml/min): 2.000 [Stop] [Flow Apply]
  - [Flow & Gradient Apply]
  - Gradient Components:**
    - A (%): 100 B (%): 0 [Gradient Apply]
    - C (%): 0 D (%): 0 [Gradient Modify]
  - Control Pressure Limits (MPa):**
    - Min: 0.0 Max: 0.0 [Apply]
  - Events: 00000000 [Events Apply]
  - [Purge...]
- Refresh GLP...**
- LAN:** 172.16.6.101:10001 **SN:** AAA093600007

The bottom status bar shows 'User: SYSTEM (SYSTEM) Project: Project Test 1' and 'M M!'

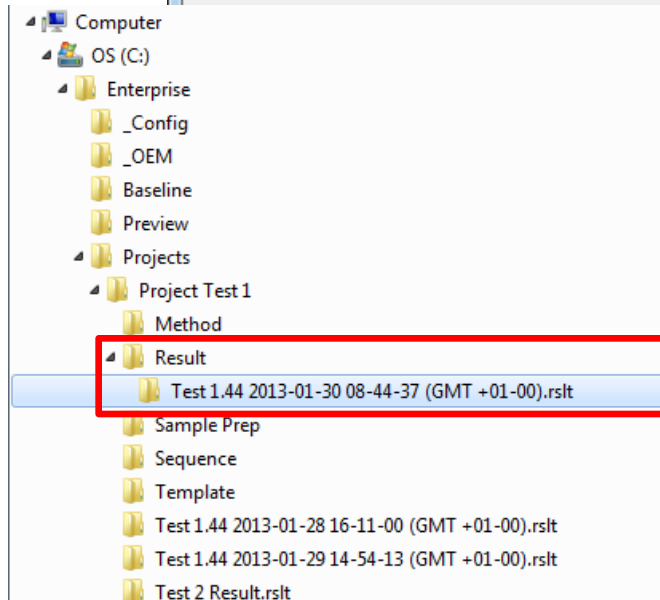
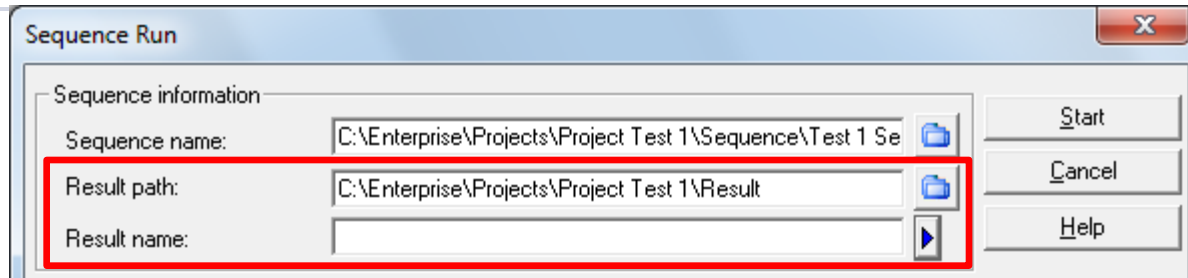
# Single Run (4)



The screenshot displays the HPLC software interface. The title bar shows 'Test 1 Method: untitled.met Data: (None) Sequence: untitled.seq'. The menu bar includes 'File', 'Edit', 'View', 'Method', 'Data', 'Sequence', 'Analysis', 'Control', 'Reports', 'Window', and 'Help'. The 'Control' menu is open, listing options such as 'Preview Run', 'Single Run...', 'Sequence Run...', 'Add Single Run to Result...', 'Add Runs to Result...', 'Stop Run...', 'Run Queue...', 'Extend Run...', 'Monitor Test 1', 'Review Running Sequence', 'Instrument Status', 'Download Method', 'Download Module Params', 'Autosampler Trays', 'Qualification Procedures', 'Standby...', and 'Solvent Control'. The 'Monitor Test 1' option is highlighted with a red box. The background shows the 'Instrument Status' panel with fields for 'System Status' (S1050, S3950, S2550), 'Monitor' (Run Status: On, Flow: 2.000 ml/min, Solvent Factor: 0.4, Pressure: 0.0 MPa, Components: 100%), and 'Events'. The status bar at the bottom indicates 'User: SYSTEM (SYSTEM) Project: Project Test 1 Idle'.



# Sequence Run (2)



File Name	Date
Sequence Run Test 1-001-Rep1	30/01/2
Sequence Run Test 1-002-Rep1	30/01/2
Sequence Run Test 1-002-Rep2	30/01/2
Sequence Run Test 1-003-Rep1	30/01/2
Sequence Run Test 1-003-Rep2	30/01/2
Sequence Run Test 1-004-Rep1	30/01/2
Sequence Run Test 1-004-Rep2	30/01/2
Test 1.44 2013-01-30 08-44-37 (GMT +01-00)	30/01/2
Test 1.44 2013-01-30 08-44-37 (GMT +01-00)	30/01/2
Test 1.44 2013-01-30 08-44-37 (GMT +01-00).rst.0.0001.acam_	30/01/2
Test 1.44 2013-01-30 08-44-37 (GMT +01-00).rst.0.0002.acam_	30/01/2
Test 1.44 2013-01-30 08-44-37 (GMT +01-00).rst.0.0003.acam_	30/01/2
Test 1.44 2013-01-30 08-44-37 (GMT +01-00).rst.0.0004.acam_	30/01/2
Test 1.44 2013-01-30 08-44-37 (GMT +01-00).rst.0.0005.acam_	30/01/2
Test 1.44 2013-01-30 08-44-37 (GMT +01-00).rst.0.0006.acam_	30/01/2
Test 1.44 2013-01-30 08-44-37 (GMT +01-00).rst.0.0007.acam_	30/01/2
Test 1.44 2013-01-30 08-44-37 (GMT +01-00).rst.0.0008.acam_	30/01/2
Test 1.44 2013-01-30 08-44-37 (GMT +01-00).Method 2 ACO 0.0001.maraml	30/01/2

## New Knauer features in OpenLAB (1)

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### ▶ Pumps

- Precast step gradient
- Increased display of pump table
- Stopping of flow during a run (no general interruption of the run)

### ▶ Valves

- semiautomatic pasting of lines into the valve table

## New Knauer features in OpenLAB (2)

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- ▶ Injection module – Stacked Injection
  - Simulation modus for the injection module – allows for adaption of stacked injections without devices (with virtual fraktion collector and detector)
  - Detachment of „Adjust Fraction Table after Stacked Injection“ for initial and stacked injections



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Thank you for you attention.

[support@knauer.net](mailto:support@knauer.net)