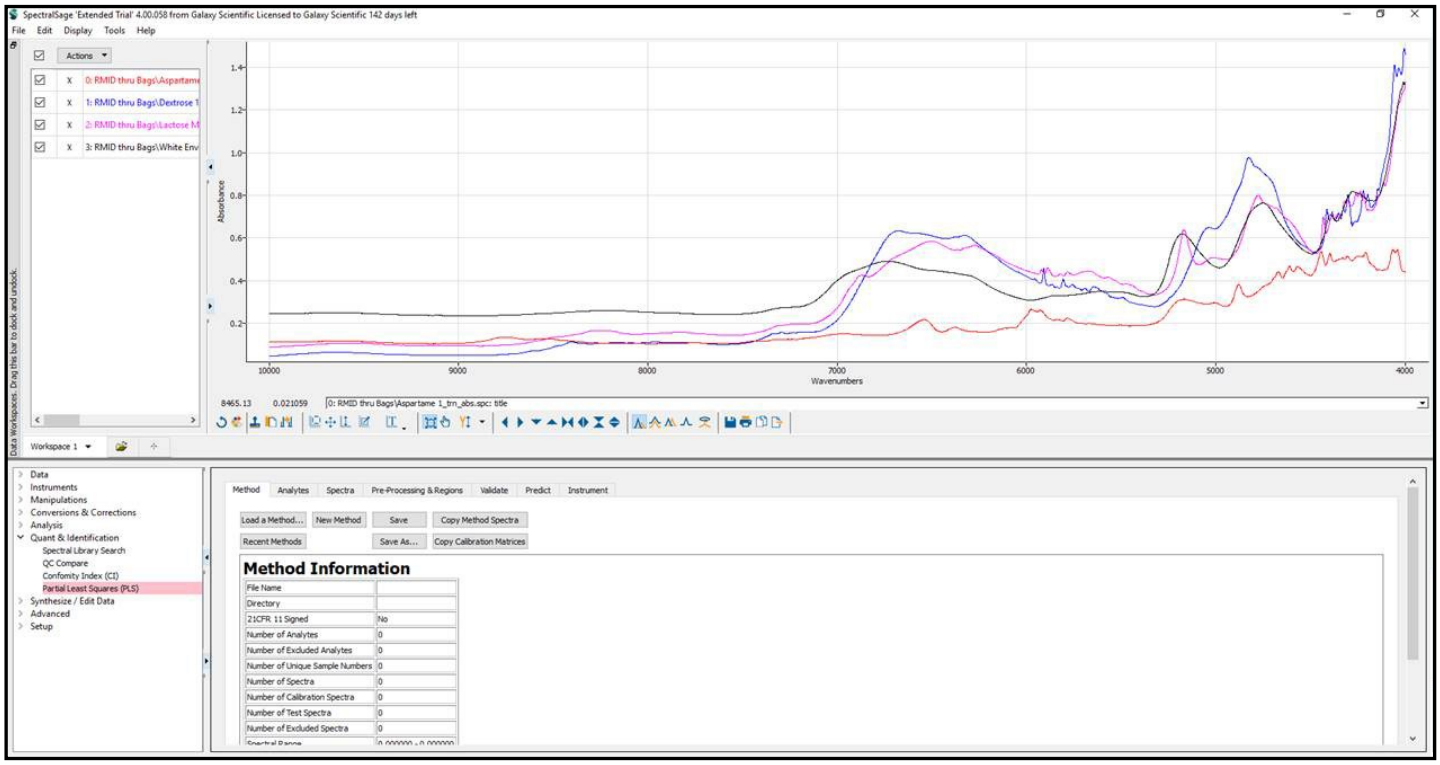
Spectral Sage™ 4 Software

Easy-to-use toolkit for advanced method development

Spectral Sage™ 4 has a user-friendly interface designed to carry out daily near-infrared analysis even for users that are new to spectroscopy. An easy-to-use toolkit, Spectral Sage features rich functions for advanced method development. This software is designed to maximize productivity at all levels. Combined with powerful algorithms, Spectral Sage 4 makes implementation fast and accessible, allowing users to collect, view, process, and store data obtained from the instrument. New features streamline the user experience and enable new capabilities to produce better results when converting near-infrared spectra into actionable results. When paired with any of Galaxy's QuasIR™ series FT-NIR spectrometers, Spectral Sage 4 is both powerful and easy-to-use.



Spectral Sage 4 main screen

Spectral Sage 4 includes the following new features:

- **Unified User Interface** – What were separate software packages have now been fully integrated into the core user interface of Spectral Sage. Also, elements such as buttons, menus, and dialogs have been modernized. Improvements to the graphing functions now allow a simple mouse-over to display the name of the spectrum.

- **Stray Light Correction** –Spectral Sage 4 offers the ability to remove the stray light from spectra through an automatic operation. As stray light from sampling cups, windows, or other sample-specific characteristics can affect chemometric models, removing it allows for obtaining the best results.

- **Background Expiration** – Users can now set background spectra to expire after a specified period, ensuring that operators are collecting the best quality data.

- **Sample Collection Tab** – This enables the collection of reference spectra within the Spectral Sage EZ application. Furthermore, the administration tools have been updated with an improved database and management of configured Products and Groups. Additionally, all reports can now be saved as PDF, DOC, XLS, and TXT.

- **Multiplicative Scatter Correction** – New pre-processing options have been added to the PLS package. Multiplicative Scatter Correction (MSC) allows for the input spectra to be corrected for scaling and offset effects as a pre-processing step for PLS regression.

- **Support for More File Formats** – Spectral Sage 4 significantly increases the number of file formats it can read, allowing a user to view or convert spectra from different instrument vendors.

- **Trigger Support** – Spectral Sage 4 now fully integrates the ability to trigger a collection through Galaxy Scientific's QuasIR™ trigger probe or other external hardware triggers, permitting a user to collect and analyze data at the right time in a processing sequence.

Areas of FT-NIR Analysis with Spectral Sage:

- Edible Oils
- Animal Feed
- Baked Goods
- Tobacco
- Beer/Wine/Liquor
- Spice
- Raw Materials
- Flour/Grain
- Polymers/Plastics
- Pharma Raw Material
- Ethanol
- Coffee/Tea
- Drug Manufacturing
- Refining
- Coal
- Meat/Seafood

Galaxy Scientific Inc. | 14 Celina Ave., Unit 17, Nashua NH 03051 USA