



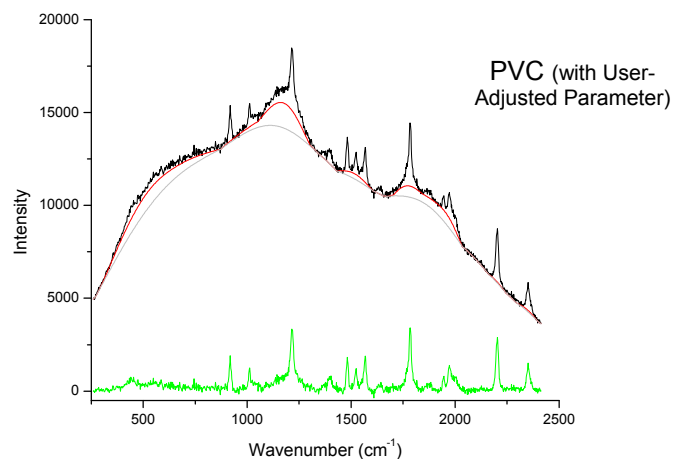
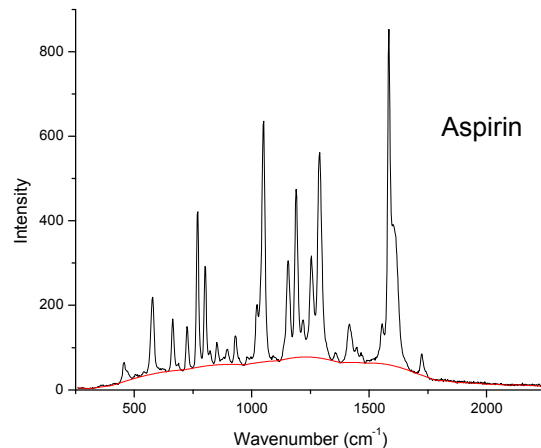
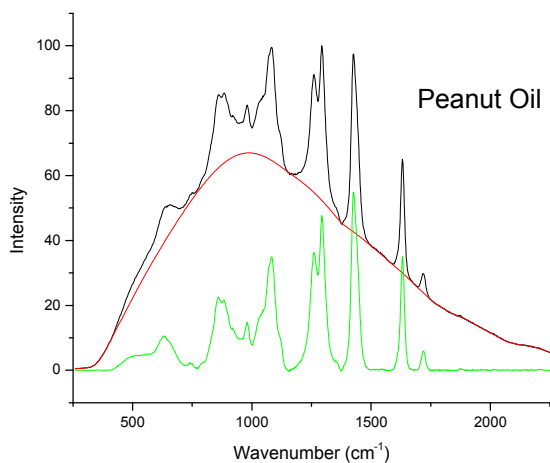
# Background Removal for Raman Spectroscopy

Raman spectra usually come with large fluorescence background from absorbing species, either from the sample molecules themselves, an impurity, or the sample container. This can become very difficult if not impossible especially for biological samples with dispersive Raman at visible or near infrared exciting wavelengths, such as 785 nm laser excitation. Removal of the background is often necessary for further qualitative and quantitative analysis of the Raman spectra to derive meaningful information about the molecules and thus the nature of the sample.

The W2I Background Removal (BR) is a robust, proprietary procedure that can reliably and reproducibly remove even the most difficult background from any samples. This reproducibility is especially important for process monitoring where manual background removal is not an option, whereas repeatable automatic background removal is of most importance, especially for a noisy spectrum with small peaks. When operated in the automatic mode, the W2I BR procedure provides complete background removal for most samples. With the option of a user-adjustable parameter, the background removal can be further optimized.

## Features and Benefits:

- Automatic, complete, robust
- Retain small peaks
- Semi-automatic with user-adjustable parameter available
- Confidence in obtaining background-free spectra



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