TissueView™ 1.0 Software on the QSTAR® Elite System

TissueView™ Software is powerful new software designed to simplify the processing of mass spectrometry imaging (MSI) data acquired on Applied Biosystems/MDS Sciex instruments.

Features

TissueView™ Software has streamlined the processing of MSI data, allowing rapid review of data for novice users. For researchers who need to perform in-depth data mining, the advanced functionality within TissueView Software make it a must-have application package.

- Instantly generate ion images by clicking on or scrolling across peaks in the mass spectrum
- View mass spectra on the fly by scrolling across the image
- Select from multiple color profiles with automatic intensity optimization for ease of viewing
- Display overlaid images of up to 4 different mass ranges to clarify distribution of individual species
- Import optical images and overlay these with MSI images to gain additional biological insight
- Measure distances between two points and sizes within images using a digital ruler
- Overlay or stack mass spectra created from different regions of interest to simplify data comparison
- Define regions of interest, view averaged mass spectra, and calculate average intensity of a mass within a region of interest
- Perform mathematical operations on images such as subtracting or dividing one extracted ion image from another
- Average spectra from adjacent pixels for better data visualization
- Perform baseline corrections of noisy data
- Export images as .tiff or .jpeg images, or simply copy and paste images into other programs
**QSTAR® Elite System**

The accurate mass and high resolution capabilities of the QSTAR® Elite System enable researchers to determine not only spatial localization information about drugs in tissues, but also to get conclusive compound identification.

- **Orthogonal TOF design** allows acquisition of accurate mass data even from irregular tissue surfaces
- **MS/MS capabilities** critical for eliminating matrix interference and for enabling compound identification
- Perform looped experiments to obtain MS and MS/MS on multiple ions in one experiment, greatly increasing throughput
- **Fast data acquisition rates** increase instrument sensitivity when combined with the high repetition laser
- **High repetition Nd:YAG laser** operates at rates up to 1000 Hz
- Less than 10 µm MALDI plate movements allow excellent spatial resolution, especially when combined with oversampling

**Compatibility**

Designed with the multi-platform user in mind, TissueView™ Software can process data acquired on a wide variety of instruments

- QSTAR® Pulsar i, QSTAR® XL and QSTAR® Elite Systems running Analyst® QS 1.1 or Analyst® QS 2.0 Software, along with oMALDI™ Server 4.0/5.0/5.1 with imaging
- 4700/4800 MALDI TOF/TOF™ Systems
- Data from any other mass spectrometry platforms in the Analyze file format

**References**


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