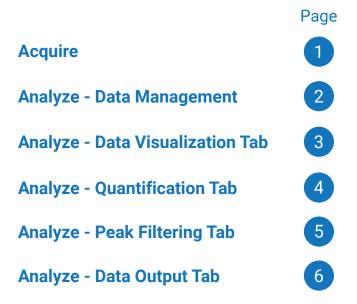


Spectradyne Tools Acquire Software: GUI Essentials

Table of Contents



nanoparticleanalyzer.com



Startup and Shutdown

- 1 **Instrument Prime*:** Use with Cleaning Cartridge to prepare the instrument for measurement
- 2 **Instrument Shutdown:** Use to shutdown the instrument after measurement

Run Details

- **1** Mold ID*: Enter the Mold ID of the measurement cartridge listed on the Cartridge Box (e.g. 103K)
- 2 **Box Number*:** Enter the Box Number of the cartridge listed on the Cartridge Box (e.g. 240517)
- **File Prefix:** Enter a prefix that will be added to the data files for organization/identification
- 4 **Sample Description:** Enter a description of the sample that will be added to the files' metadata

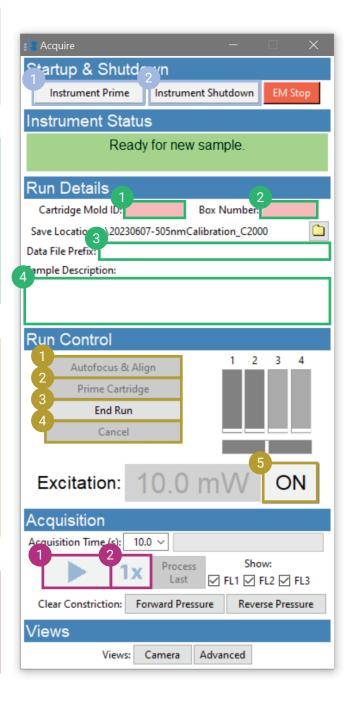
Run Control

- Autofocus & Align[†]: Aligns the optics for fluorescence measurements (use before Prime Cartridge)
- 2 **Prime Cartridge*:** Prepares the measurement cartridge for measurement
- 3 **End Run:** Depressurizes the instrument to allow for loading another cartridge or shutdown
- 4 **Cancel:** Halts the priming process should there be an issue
- 5 Activate Laser[†]: Turns on the excitation laser for fluorescence measurements

Acquisition

- **1** Start/Pause Acquisition: Either begins or pauses data acquisition after the cartridge is primed
- 2 **Single Acquisition:** Takes one acquisition without processing the raw data (use to test data quality)

*Required to begin measurement *ARC only



Spectradyne Tools Analyze Software: GUI Essentials - Data Management

Select and Quickview

Γ.	1	Currently	· A atiliza	Directory
			ACLIVE	
Δ.				

2 Select Directory

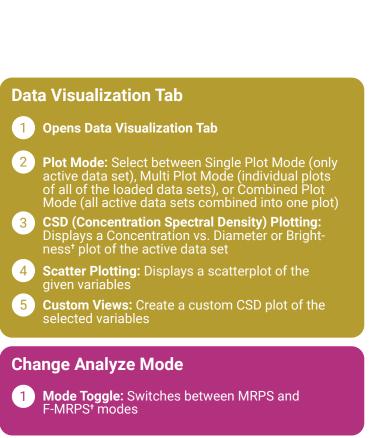
- 3 **Filter:** Select what types of files to display from the active directory, only Stats or Combined files can be plotted
- 4 **Quickview:** Displays the selected file types (see above) in the active directory, use to select what data to load (see below)
- 5 **Load Data:** Loads the selected (highlighted) data in the Quickview panel for analysis/plotting

Loaded Data Panel

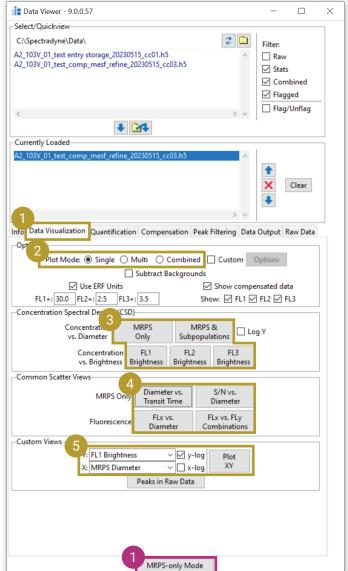
- 1 **Currently Loaded:** Displays the loaded data, the highlighted data is the active data set for single mode plotting, scaling, and filtering
- **2 Data Navigation:** Choose the active data set or remove the highlighted data
- 3 **Clear:** Clears all loaded data sets

Data Viewer - 9.0.0.57	$ \Box$ >								
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:\Spectradyne\Data\	3								
4 _2_103V_01_test entry storage_20230515_cc01.h5	Raw								
A2_103V_01_test_comp_mesf_refine_20230515_cc03.h5	Stats								
	Combined								
	✓ Flagged								
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urrently Loaded									
42_103V_01_test_comp_mesf_refine_20230515_cc03.h5									
Info Data Visualization Quantification Compensation Peak Filtering Data Output Raw Data Options Plot Mode: Single Multi Combined Custom Options Use ERF Units FL1+: 30.0 FL2+: 2.5 FL3+: 3.5 Show: FL1 FL2 FL3 Concentration Spectral Density (CSD)									
					Concentration MRPS MRPS & Log Y				
					vs. Diameter Only Subpopulations	·9 ·			
					Concentration FL1 FL2 FL3				
					vs. Brightness Brightness Brightness Brightness				
					Common Scatter Views				
					MRPS Only Diameter vs. S/N vs.				
Transit Time Diameter									
Fluorescence FLx vs. FLx vs. FLy Diameter Combinations									
Custom Views									
Y: FL1 Brightness V V.log Plot									
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Peaks in Raw Data									

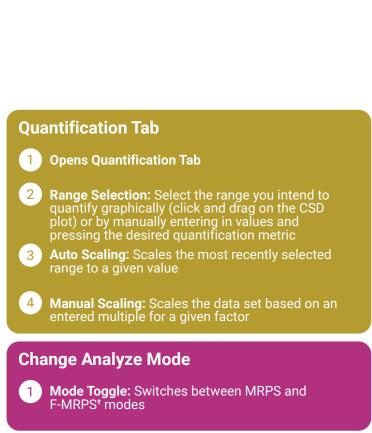
Spectradyne Tools Analyze Software: GUI Essentials - Data Visualization



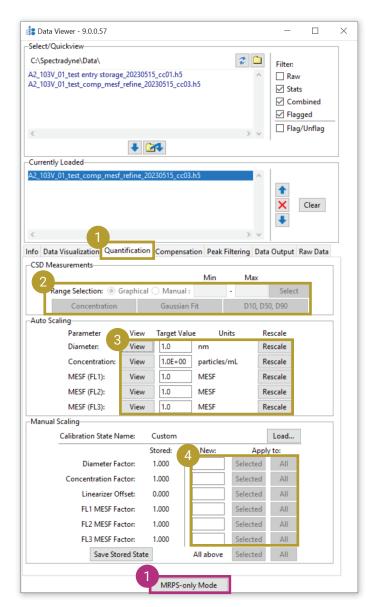




Spectradyne Tools Analyze Software: GUI Essentials - Quantification



⁺ARC only



Spectradyne Tools Analyze Software: GUI Essentials - Peak Filtering



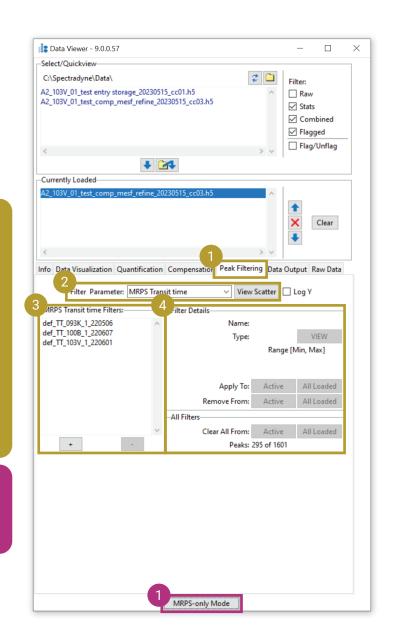
1 Opens Peak Filtering Tab

- 2 Filter Parameter: Select which parameter you want to filter and display a scatterplot of the selected parameter vs. diameter
- 3 Filter List: Displays the available filters for the selected parameter, highlighted filters are currently active, use the +/- buttons to create or delete filters
- 4 **Filter Details:** Displays details of the selected filter, use the 'Apply To/Remove From' buttons to add/remove the selected filter from the selected data set or all currently loaded data

Change Analyze Mode



Mode Toggle: Switches between MRPS and F-MRPS⁺ modes



Spectradyne Tools Analyze Software: GUI Essentials - Data Output



1 Opens Data Output Tab

- 2 Save: Saves a new version of the selected file in the Loaded Data panel or all loaded files
- 3 Combine Data & Generate Run Report: Creates a combined file of all loaded data and generates a Run Report in Excel format
- 4 **Export:** Exports the selected data or all loaded data in a variety of formats. Includes a 'Subtract CSDs' function to subtract two data sets from each other

Change Analyze Mode

1 Mode Toggle: Switches between MRPS and F-MRPS⁺ modes

⁺ARC only

