

Selecting the clip settings icon from the menu in the Tracker software.



Image from Tracker that is showing the wet and dry powder at approximately 3 mm on the taped ruler at the initial time step.



Selecting "Calibration Stick" from the Calibration Tools icon to set the pixel distance that is based on the ruler that is taped below the flow cell.



Implementation of the Calibration Stick in Tracker to define the distance on 1 mm in real space relative to the pixels in an image.



Placement of the coordinate axis (that is selected from the "Show Coordinate Axis" icon) tool onto the microfluidic flow cell.

Visual instructions to add a point mass, a point-like object representing a moving mass, to the video file for Tracker to track.





A defined search area that is shown by the red rectangle with the dotted lines. Tracker will search inside that defined box for the interface between the wet and dry powder.

		Autotracker: mass A position
Programming the autotracking feature in the Tracking software using the "Search Next" feature.		Options Search This Search Next
	Frame 431:	Template Match
	Template:	Evolution Rate 20% C Automark 4 C
	Search:	🗌 X-axis Only 🛛 Vook Ahead
	Target:	Track 🔷 mass A 🗘 Point position 🗘
	Frame 431 (r	natch score 53.7): The match was marked automatically.
	Не	Ip Show Key Frame Delete Close



The image of the software measuring the point mass as the fluid progress through the channel.



Visual instructions on how to deselect points if an error occurred during the imaging.



Image of the completed software tracking as the flow front has reached the end of the channel. A real time plot of distance versus time can be seen, and the data for the plot just below the plot.