LS&E
Infrastructure Center

Date modified: October 2025 Date of the tutorial: _____

Aurora Tutorial Checklist

Working in the flow unit:

- No food or beverages are allowed except for closed bottles
- The workstation should be left clean and organized
- Ensure you take your belongings, such as articles, protocols, experiment layout, etc.
- Instructions on the reservation system and working with the KIOSK
- REGISTRATION FORM, Reservation and registration, Safety Instructions, Shadow protocol.

Kiosk

☐ Sign in before starting work (verify budget)

☐ Sign out after finishing work

☐ If you have a tutorial, sign up for both sessions

☐ Turn off Aurora if the next user has more than 4 hours until their session

☐ Verify that the next user is coming (after working hours)

Machine

☐ Fluidics: Need to wash at least one hour before starting work

☐ Run Spectroflo QC Beads daily

Spectroflo

☐ Create a new user

☐ Experiment duplication (with/without reference/data, template)

☐ Sample Acquisition (counting and recording, moving between samples)

☐ Unmixing

☐ Adjust detector gain (add height and width)

☐ Graphs

☐ Gates (creating, renaming, modifying)

☐ Record mode (storage gate and stopping gate)

☐ Export and access data

☐ Spectral signatures

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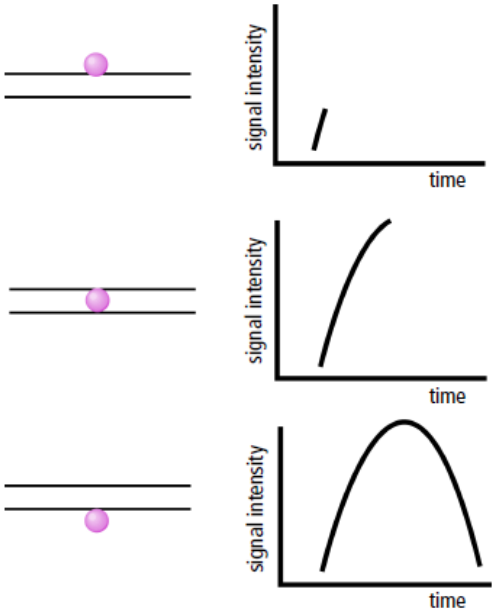
☐ Help file (LS&E site), full spectrum viewer tool

☐ Analysis on spectroflo (analysis station, no user name and password)

Or Flowjo, FCSexpress and Cytobank

☐ Shutdown

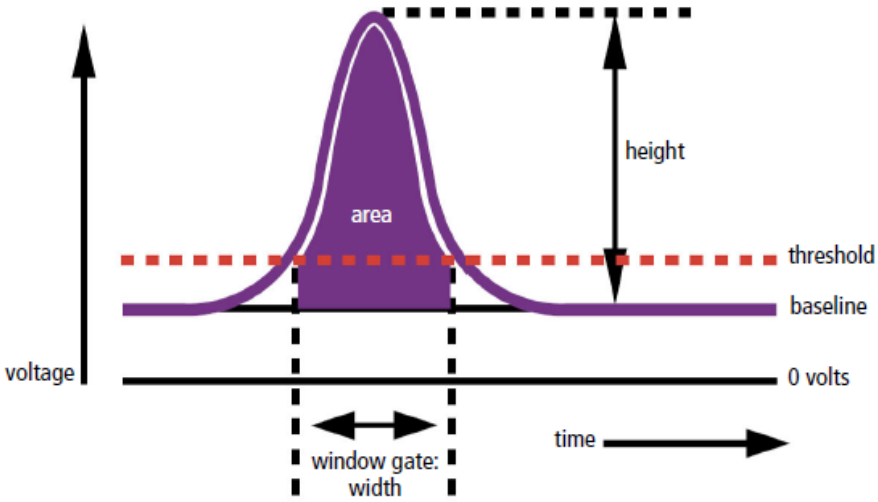
Figure A-10 Anatomy of a pulse



Pulse Measurements

The pulse processors measure pulses by three characteristics: height, area, and width.

Figure A-11 Pulse measurements



- Pulse height is the maximum digitized intensity measured for the pulse.
- Pulse area is an integration of the digitized measures over time.
- Pulse width calculates: $\frac{\text{area}}{\text{height}} \times 64{,}000$