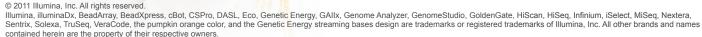


HiSeq Run Monitoring





Session Objectives

- ▶ By the end of this training, you will be able to:
 - List the two options to monitor a run
 - Describe the functionality of SAV

HiSeq Run Monitoring

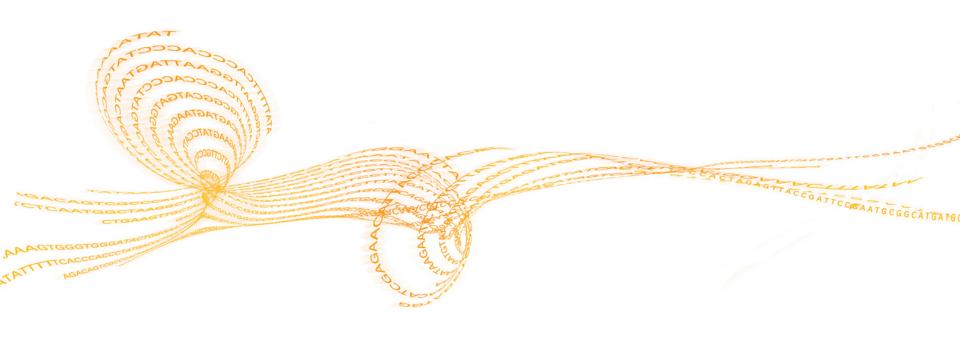
Sequencing Screen in HCS

Monitor:
On-instrument analysis
Fluidics
imaging

Sequencing Analysis Viewer (SAV)

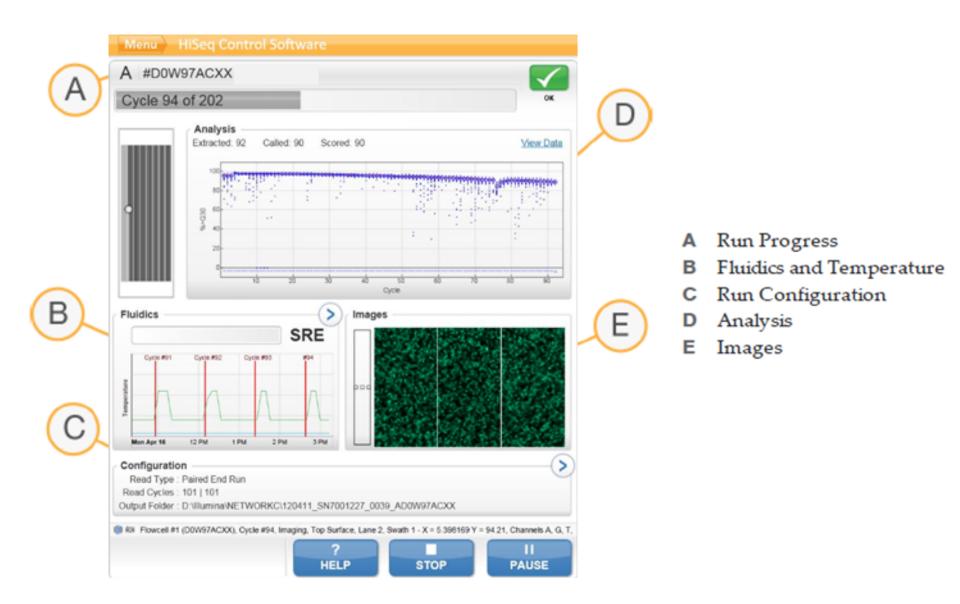
Monitor: Run in greater detail

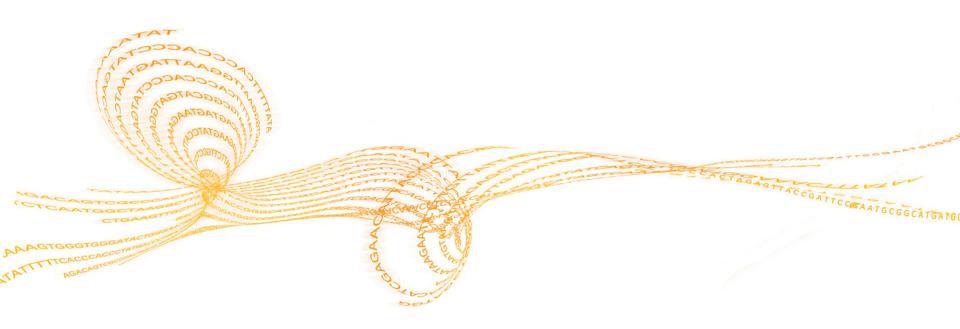
Launches automatically after image analysis begins and displays the status page



Monitoring a Run using HiSeq Control Software

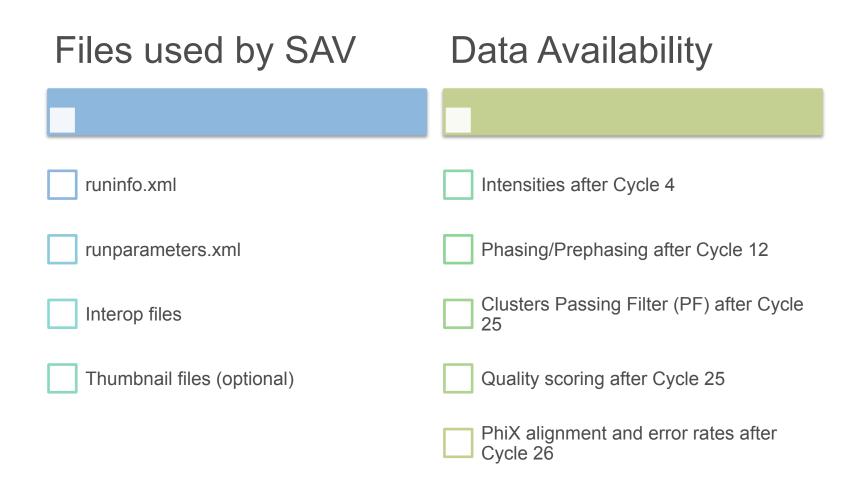
Viewing Run Metrics on the Run Overview Screen





Viewing Run Metrics using Sequencing Analysis Viewer

Sequencing Analysis Viewer (SAV)



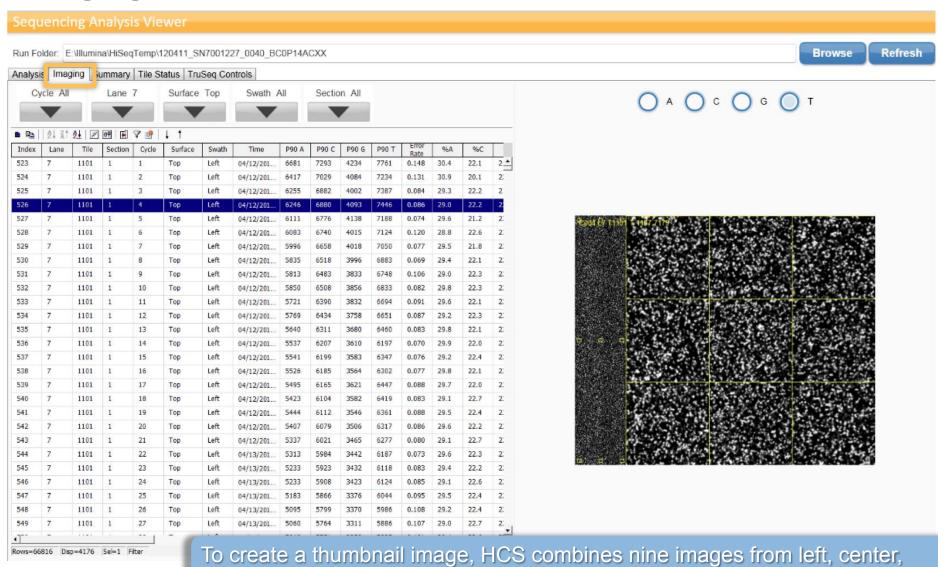
Analysis Tab



computer with access to the run folder

illumına[®]

Imaging Tab



and right sections of the top, center, and bottom regions of a tile

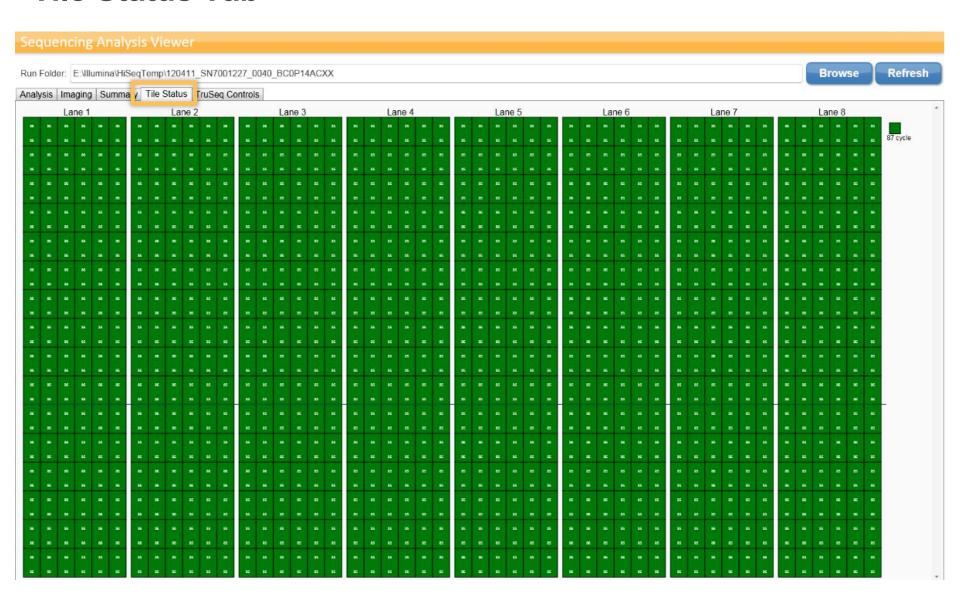
illumına[®]

Summary Tab



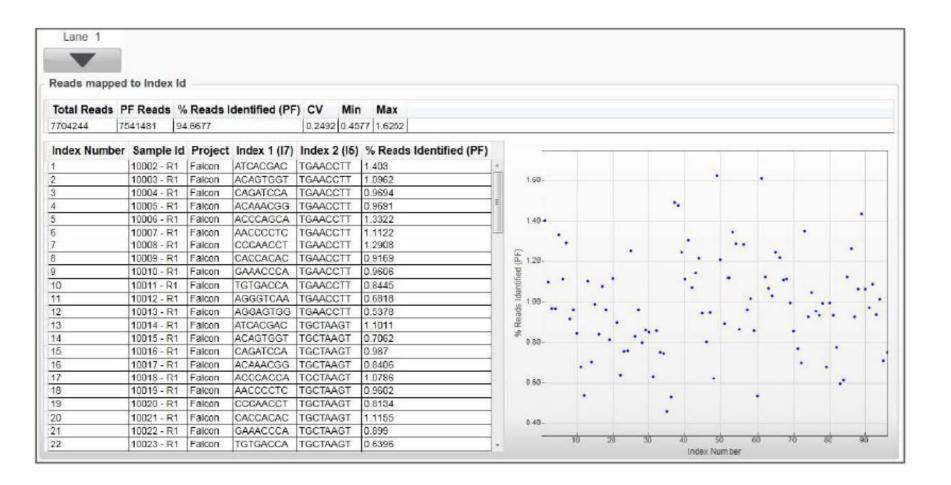


Tile Status Tab





Indexing tab

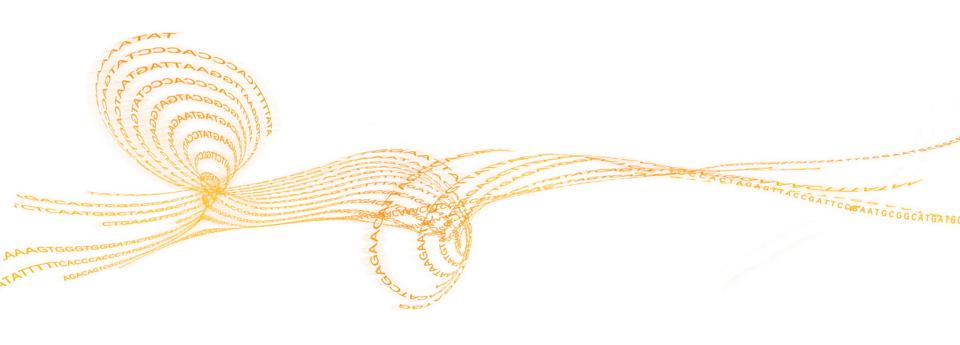


The Indexing tab is only available if a sample sheet was used at the start of the run and the run is an index run



Summary of Run Monitoring

- Sequencing run metrics can be viewed:
 - on the HiSeq during a run
 - using SAV at anytime
- Run metrics are populated at different cycles during a run
 - Intensities after cycle 4
 - Phasing/Prephasing after cycle 12
 - Clusters passing filter after cycle 25
 - Quality scoring after cycle 25
 - PhiX alignment and error rates after cycle 26
- Absolute or relative values for run metrics are dependent on the type of library
 - Trending of run metrics is highly recommended to identify outliers



Questions?