

Previous Process: JIRA or Collaborator Triggers a Red Flag

Files to Use

1a. Check Run & Lane Summary Metrics

GERALD Summary File

1b. Check Tile Summary Metrics

GERALD Summary File

2. Check Intensity Plots

Intensity Vs Cycle (call.png, percent_base.png), Broad-generated plots

3. RTA Reports

(RTA 1.5) FWHM by Color and Cycle, Intensity by Color and Cycle, NumClusters
 (RTA 1.6) FWHM Chart, Intensity Charts, NumClusters, NumGT30

4. Check Images

SYBR, Selected saved tile jpegs

5. Check Internal Controls

Automated Error By Cycle plots, Summary metrics, By-Cycle Metrics

6. Check Basecalling Correction Parameters

Applied and Calculated: Matrix by Lane, Phasing by Lane, Prephasing by Lane.

7. Dig Deeper Based on Findings in previous Troubleshooting Steps

Based on where previous steps looked problematic, other files and metrics can be assessed. GERALD Error plots, GERALD Rescore plots, Image Offsets, Sample identity information, lane waste volumes, hardware check, etc.

8. Provide Feedback

Reanalysis or Total Failure (actions to be determined by projects team)

**Next Process:
 Renalysis , Rework, ???**