

## File Locations for Troubleshooting

1. Summary File – High level overview of lane and tile metrics.
  - [Summary.htm](#)
  - [RunFolder/Data/Intensities/Bustard\(version\)\\_\(date\)/GERALD\(date\)](#)
2. IVC/Intensity Plots/SignalMeans.txt – Intensity by cycle
  - [IVC .htm](#) (essentially all intensity plots grouped in one file for easy viewing):  
[RunFolder/Data/Intensities/Bustard\(version\)\\_\(date\)](#)
  - Individual Plots: [All.png/Call.png/Percent\\_all.png](#):  
[RunFolder/Data/Intensities/Bustard\(version\)\\_\(run date\)/Plots](#)
  - [SignalMeans.txt](#): (if IVC plots or .pngs are not available) – must be plotted manually (Excel)  
[RunFolder/Data/Intensities/Bustard\(version\)\\_\(date\)](#)
3. 1.5 / 1.6 RTA Reports - Real Time Analysis metrics by tile/cycle
  - These plots can be looked at as run is progressing. For troubleshooting purposes, however, these plots are also saved on the network for future reference.
  - RTA 1.6
    1. [FWHM\\_Chart\\_\(cycle\)\\_\(channel\).png](#)
    2. [NumGT30\\_Chart\\_\(cycle\).png](#)
    3. [Intensity\\_Chart\\_\(cycle\)\\_\(channel\).png](#) –
    4. [NumClusters By Lane.png](#) Note density is measured in  $\text{mm}^2$ , not by tile.
  - RTA 1.5
    1. [FWHM by Color and Cycle.png](#)
    2. [Intensity by Color and Cycle.png](#)
    3. [NumClusters By Lane.png](#) Note density is measured in  $\text{mm}^2$ , not by tile.
  - [RunFolder/Data/reports](#)
4. Raw Images (if selected to save) – most basic level of data used to observe quality
  - [s\\_\[lane\]\\_\[cycle\]\\_\[channel\].tif](#)
  - [RunFolder/Images](#)
5. Matrix – summary of crosstalk corrections and intensity normalization
  - [s\\_\(read\)\\_summary.txt](#) – Matrix by read for every tile on flowcell.
  - [s\\_\(lane\)\\_\(read\)\\_matrix.txt](#) – Average matrix by read, by lane.
  - Matrix files can be found in [RunFolder/Data/Intensities/Bustard\(version\)\\_\(date\)/Matrix](#)
  - Which matrix was applied? – Look at [Bustard.log](#) file in:  
[RunFolder/Data/Intensities/Bustard\(version\)\\_\(date\)](#).
6. Phasing and Prephasing – summary of phasing/prephasing values by lane
  - There are two useful types of phasing/prephasing files (unfortunately, named very similarly)
    1. Phasing by lane average by read. (ex. [s\\_3\\_102\\_phasing.xml](#). This gives the average of all tiles in that lane [3] by that read [read 2].) Cumbersome because you only see values for one lane, not entire flowcell.
    2. Phasing by read, which includes every tile in every lane. Much more useful, however, these need to be plotted manually. (ex. [s\\_01\\_phasing.txt](#).) Data can be viewed by lane and also by tile.
  - Both files are found in [RunFolder/Data/Intensities/Bustard\(version\)\\_\(date\)/Phasing](#)
7. Rescore/Error Plots – plots of %error by cycle
  - [Errors.png](#) show % reads with X number of errors by cycle per tile
  - [Rescore.png](#) shows error rate by cycle by tile and *also* number of blank bases by cycle per tile
  - [RunFolder/Data/Intensities/Bustard\(version\)\\_\(date\)/GERALD\(run date\)/Plots](#)