Dartmouth Brain Imaging Center (DBIC)
QA Report 32 CH
07152024

Measurements

<table>
<thead>
<tr>
<th>Measurements</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>mean signal (mean)</td>
<td>1555.7</td>
</tr>
<tr>
<td>Signal to Noise Ratio (SNR)</td>
<td>256.1</td>
</tr>
<tr>
<td>Signal to Fluctuation Ratio (SFNR)</td>
<td>259.7</td>
</tr>
<tr>
<td>Percent Fluctuation</td>
<td>0.05</td>
</tr>
<tr>
<td>Drift</td>
<td>0.49</td>
</tr>
<tr>
<td>Radius of Decorrelation (RDC)</td>
<td>8.2</td>
</tr>
<tr>
<td>Mean Ghost Percentage</td>
<td>2.296</td>
</tr>
<tr>
<td>Standard Deviation (std)</td>
<td>0.80</td>
</tr>
</tbody>
</table>

Signal

result.xml [percent fluct (trend removed), drift, driftfit] = [0.05, 0.49, 0.]

![Signal Graph](image)
Frequenc Spectrum

\[ [\text{mean, SNR, SFNR}] = [1555.7, 256.1, 259.7] \]

Radius of Decorrelation

\[ rdc = 0.2 \text{ pixels} \]
Smoothness - X

Smoothness (FWHM) in mm - X: [min mean max] = [2.075 2.182 2.269]

Smoothness - Y

Smoothness (FWHM) in mm - Y: [min mean max] = [2.415 2.476 2.544]
Center of Mass - Y

Center of Mass in mm - Y: [maxdisplacement drift] = [0.061 0.061]

Center of Mass - Z

Center of Mass in mm - Z: [maxdisplacement drift] = [0.025 0.017]
Ghost

Mean of ghost voxels as % of non-ghost [masked] mean
(ghostmean, brightghostmean) = (2.296, 6.253)
(lower is better)

Odd-Even Difference Image