25/7/24 Jennifer IGR Sample 10

Sample 10

First folder below weld

Collect fast scan and video, integrate data to have p4p file and then move up fibre pulling in matrix

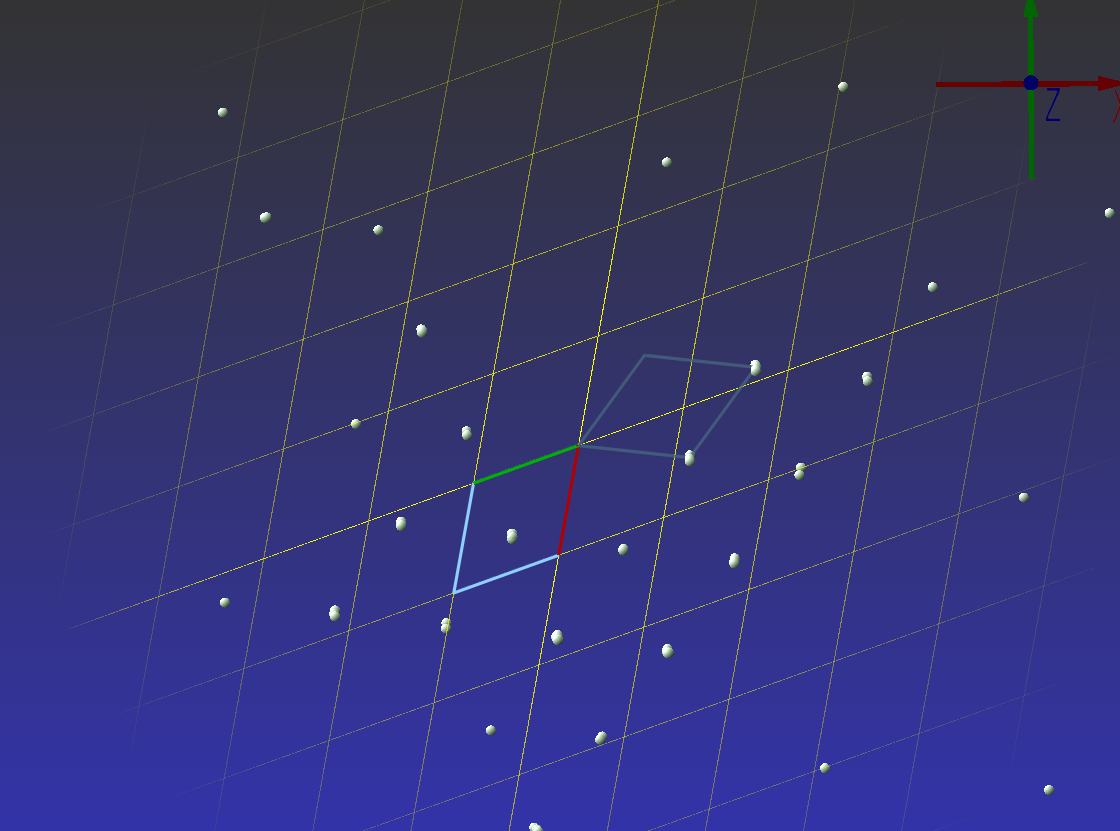
Below weld

Weld1 – same orientation

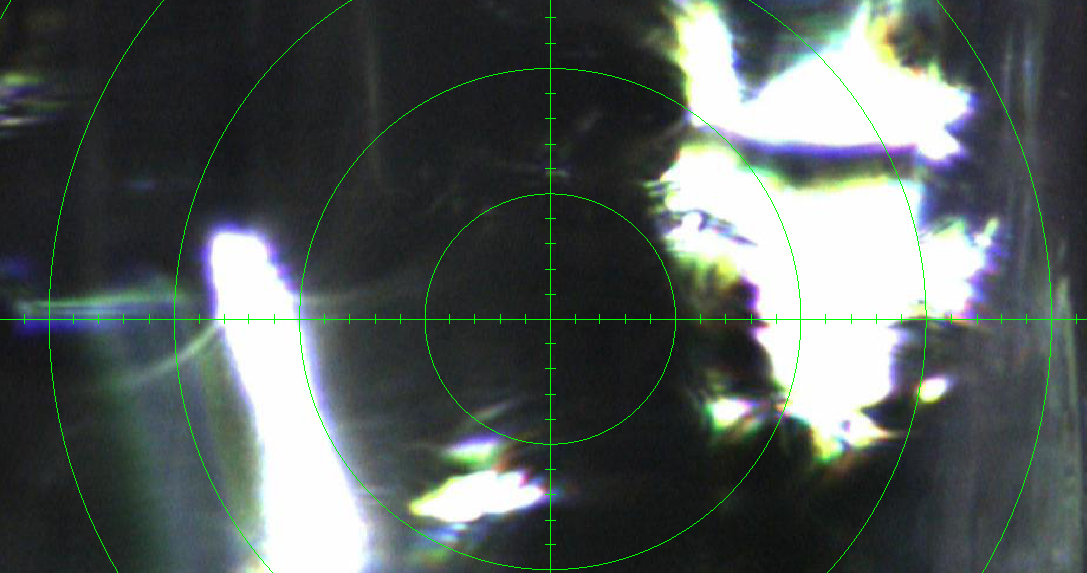
Weld2 – same orientation

Weld3 – same orietation

Weld4 – orientation changed – lattice below from below weld, reflections from weld4 with cell – harvest weaker reflections and can see that some of both orientations



Sample10\_weldmidway3and4 (level with a line feature on fibre) - orientation matches below weld orientation



Think about that measuring with x-ray beam at angle to fibre using standard fast scan with kappa 54.70 - try with kappa 0 to have beam perpendicular to fibre

So phi scan with omega and kappa at 0

Still seeing some reflections from both orientations with kappa zero (beam diameter approx 200 microns)

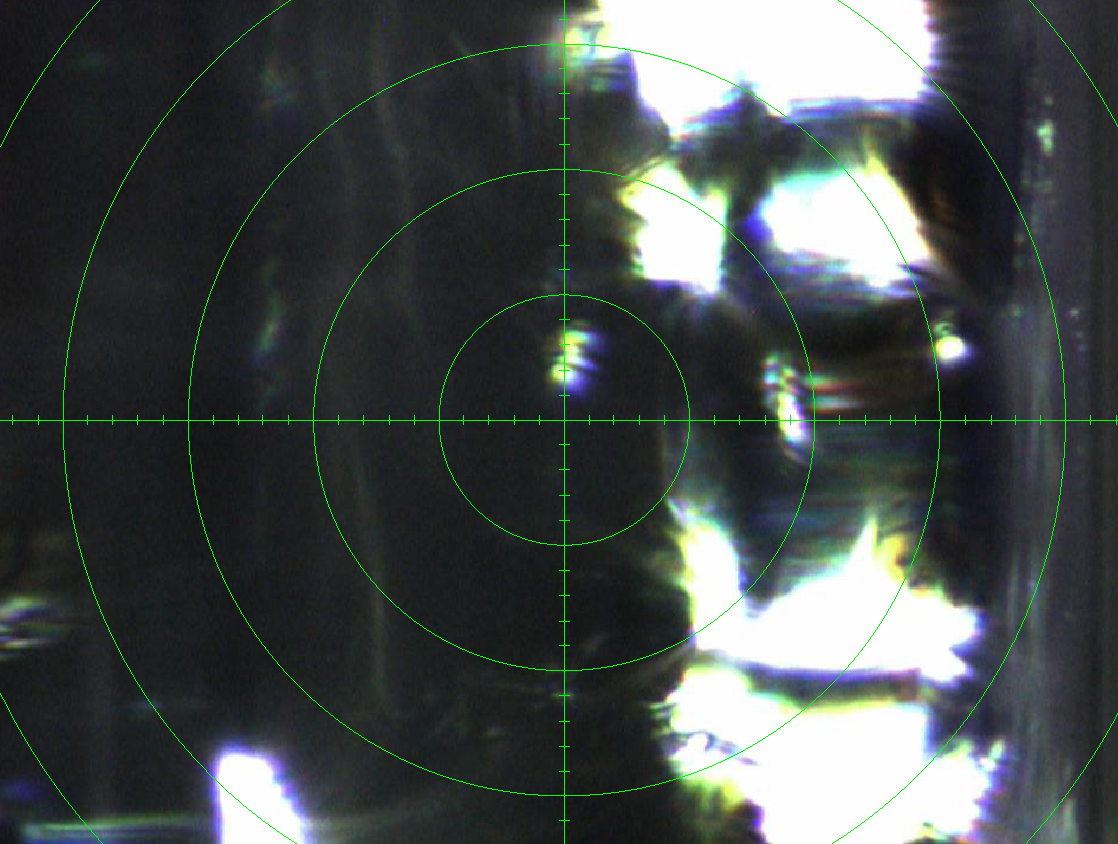
Move up and down and try with kappa=0 to see if clean below this

Use cellnow results so that have matrix for both orentations and pull into to other image sets so that can see if component 1 or 2

Component 1 matches below and component 2 is above as mounted

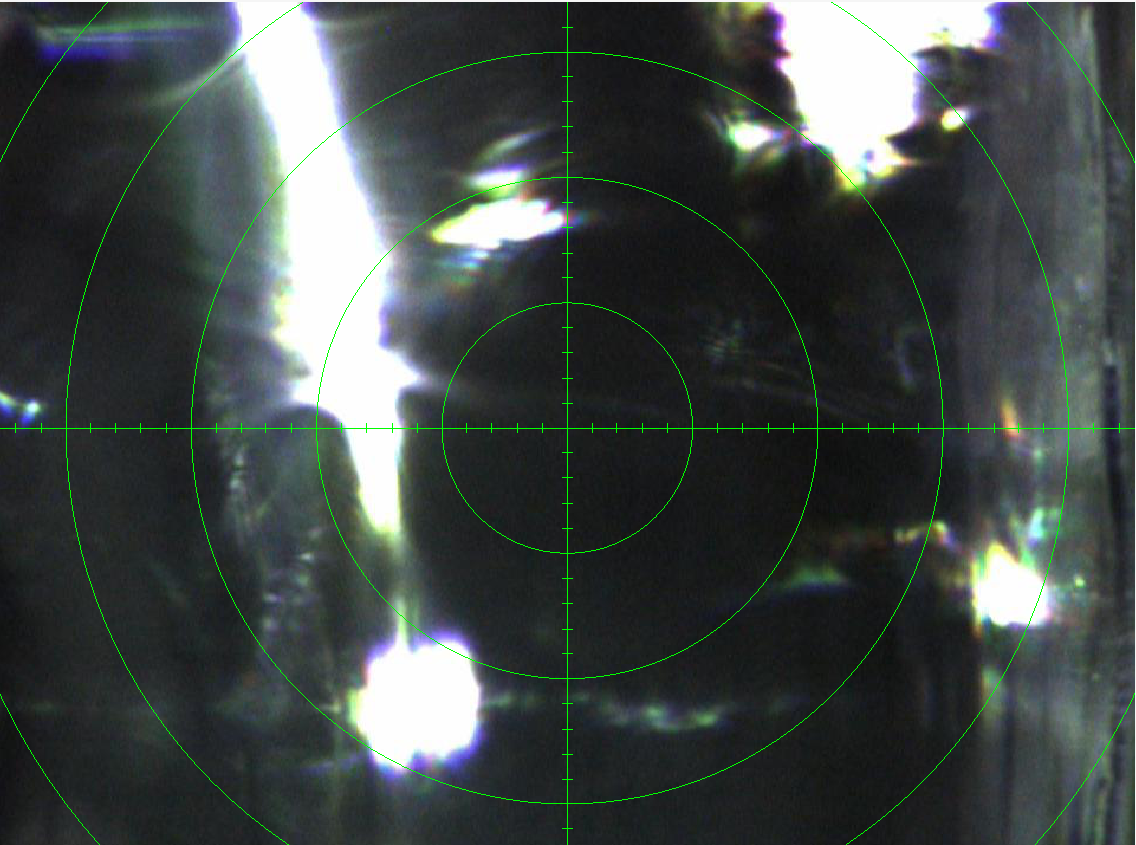
Same folder – move fibre down approx 200 microns (using line feature) and collect another kappa=0 180 phi scan – looks closer to single component with fewer non-fitting reflections

Move further up so that line feature on edge of image – 300 microns above feature



Mostly above component

Position line feature at top of image so beam centre approx 300 micron below feature



Beam centre 300 micron below line feature looks single component 1