

From: "David Muir" <David.Muir@lightsource.ca>
Subject: **FW: Grating Measurement Results**
Date: August 1, 2007 12:18:47 PM CST
To: "Alexander Moewes" <alex.moewes@usask.ca>, "Mark Boots" <markjboots@gmail.com>
▶ 2 Attachments, 68.9 KB

Looks pretty good at first glance. I'll discuss this in more depth with Brian tomorrow.

-David

-----Original Message-----

From: Dylan Maxwell
Sent: August 1, 2007 11:59 AM
To: David Muir
Cc: Brian Yates
Subject: Grating Measurement Results

David,

Here are the metrology results for the two grating:

LEG #1 600 lines/mm R5m

Slope Error: 1.735 μ rad RMS

Radius: 5.0256 m \pm .0005 m

Line Width: 593.02 lines/mm \pm 2.77 lines/mm (\pm 0.47%) Line Width error from 600 lines/mm = -1.16% See attachment.

IMPURITY #2 900 lines/mm R6m

Slope Error: 1.535 μ rad RMS

Radius: 6.6998 m \pm .0013 m

***** ----->

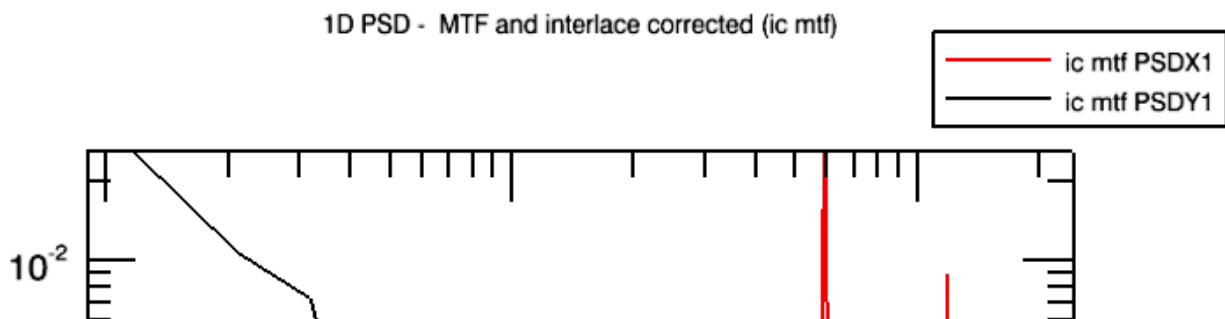
David: Is this radius supposed to be 6.00 m? If so, it clearly doesn't meet spec and you should discuss this with Bernie Bach?

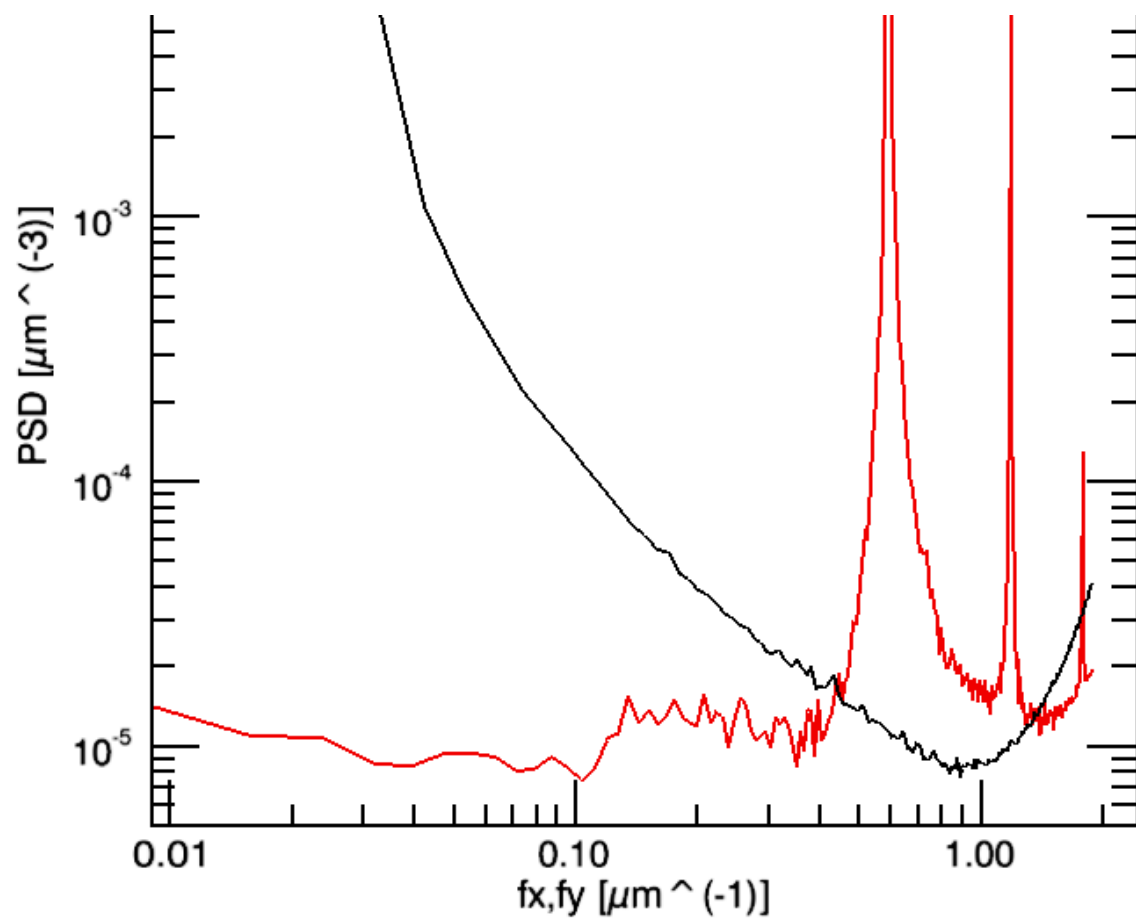
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Line Width: 892.86 lines/mm \pm 3.986 lines/mm (\pm 0.45%) Line Width error from 900 lines/mm = -0.793% See attachment.

You should swing by our office soon, so that we can return the two gratings to you and discuss some of these results.

Cheers,
Brian/Dylan





1D PSD - MTF and interlace corrected (ic mtf)

