extractionQA for edr2-20231203 (b arm)

Satoshi Hamano (NAOJ)

b1
chi's rms for each fiber
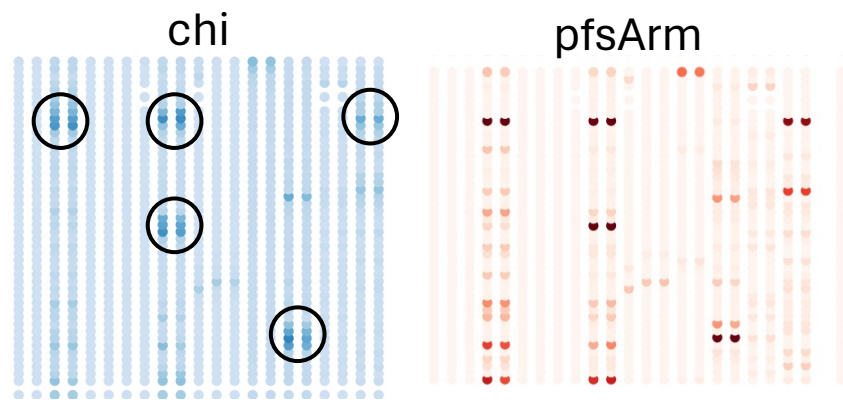

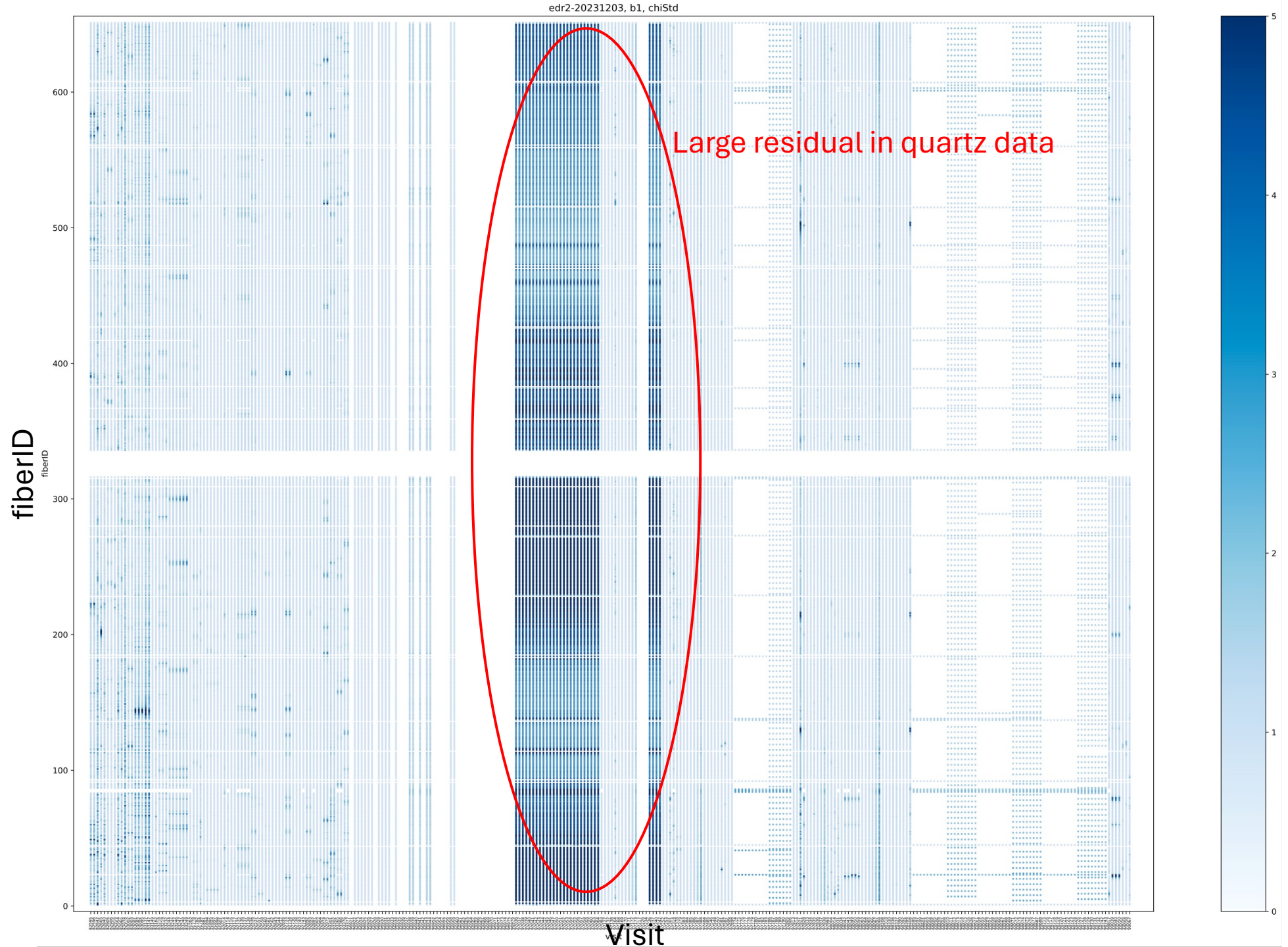
edr2-20231203, b1, chiStd
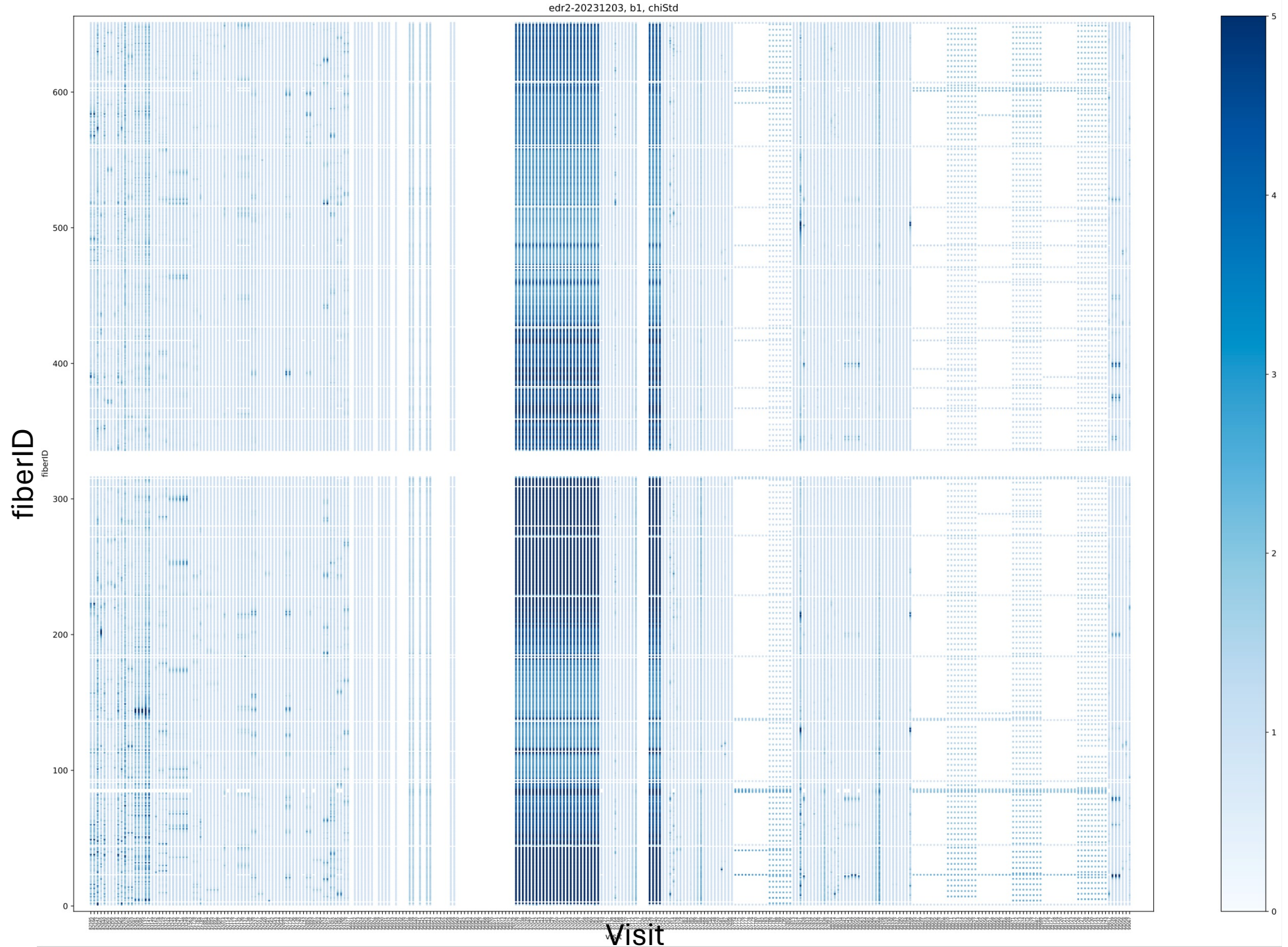
b1

Most spots seen in the chi map are related to bright fibers.
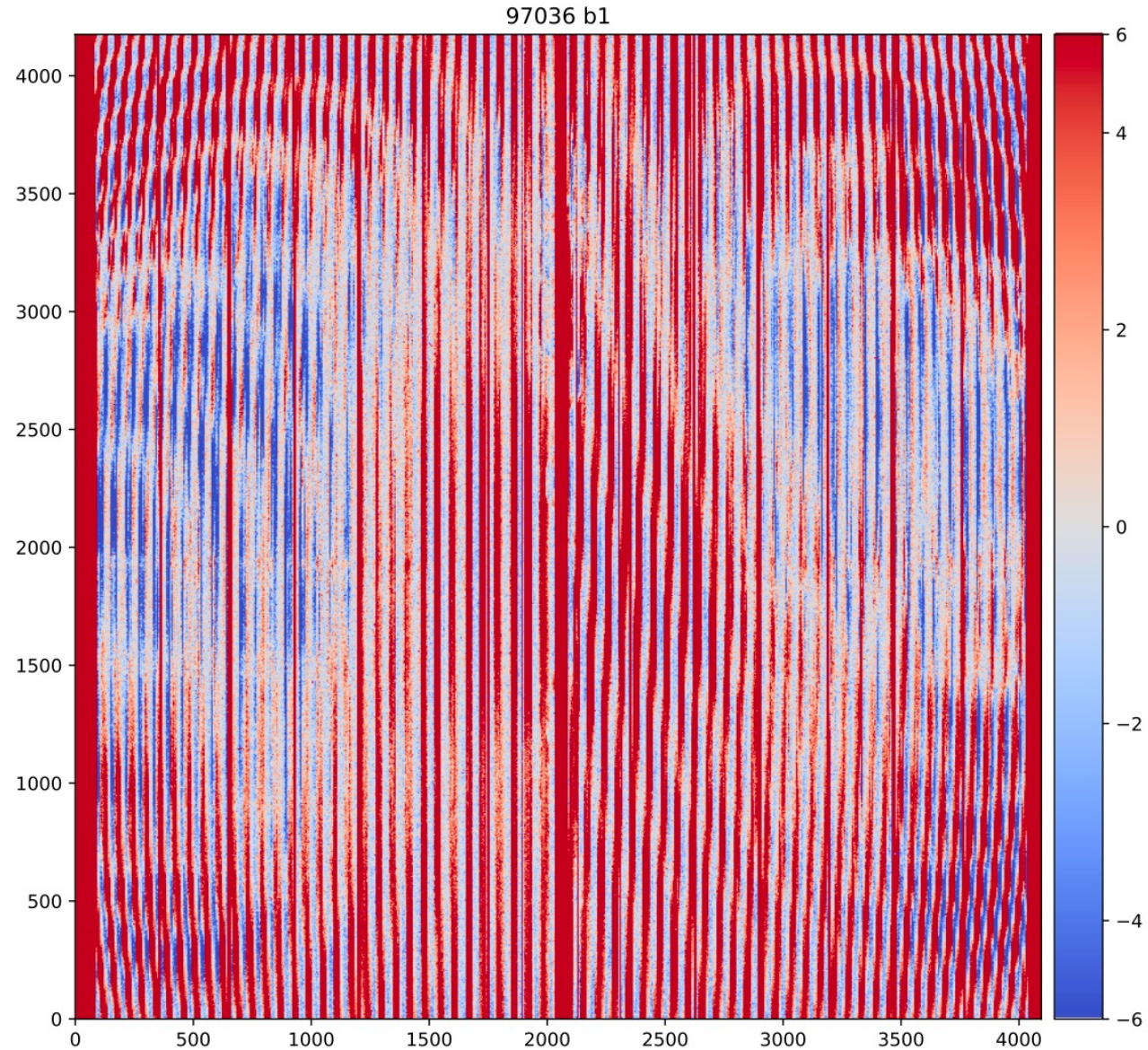
The fibers around bright fibers are affected.
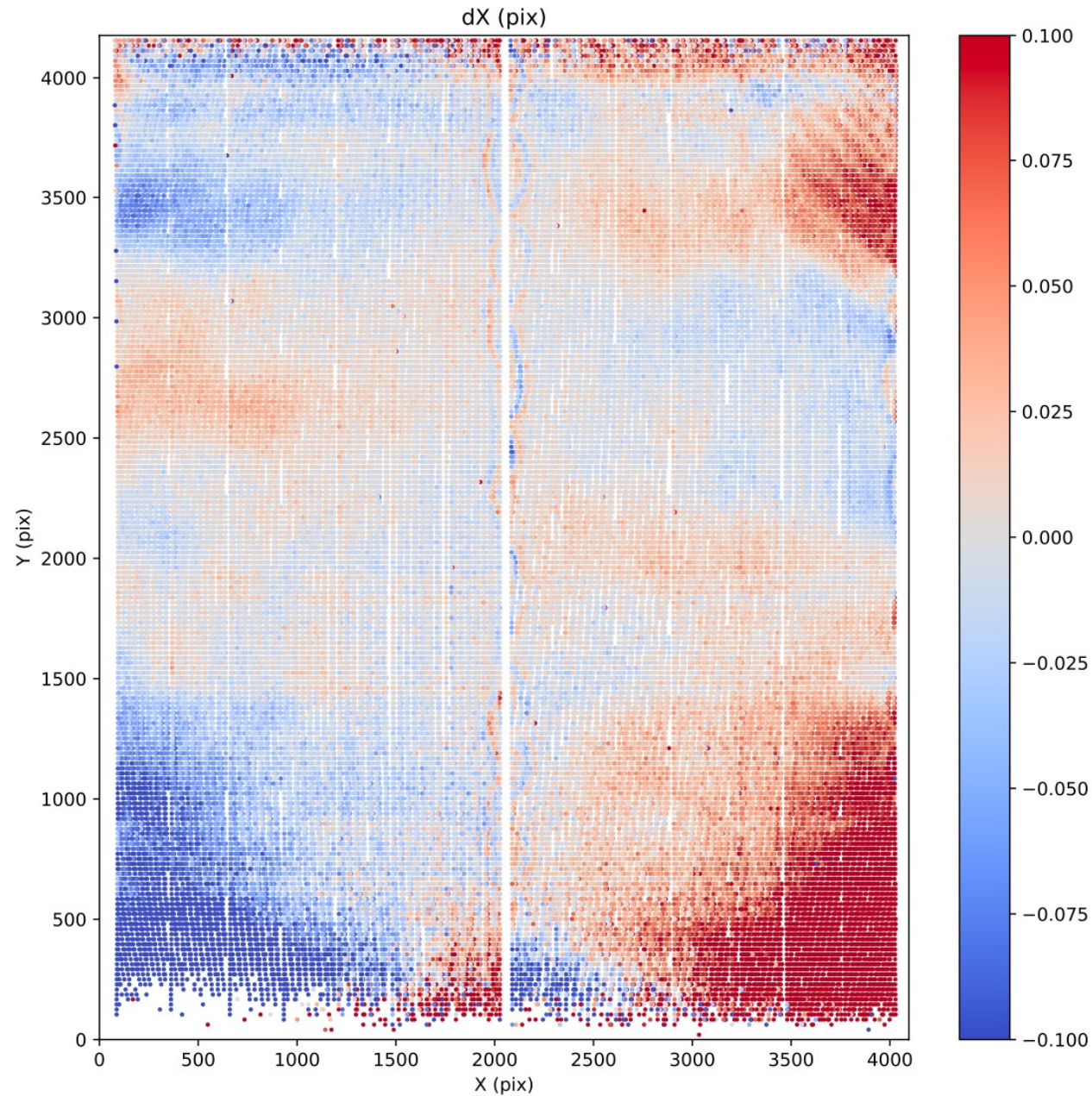
chi

pfsArm

b1
chi's rms for each fiber

edr2-20231203, b1, chiStd

Large residual in quartz data

fiberID

Visit

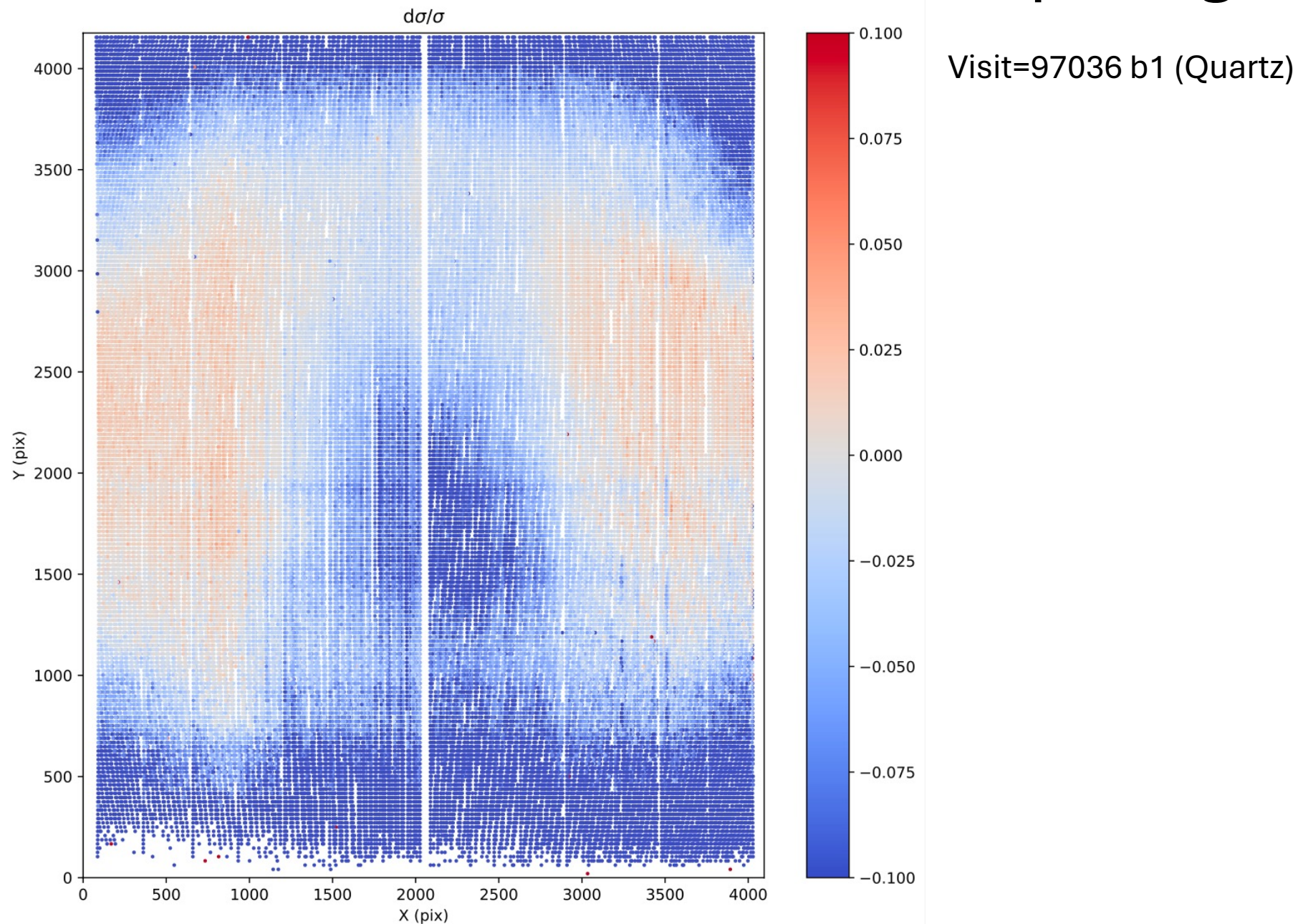# Chi map for Visit=97036 (Quartz)

97036 b1

Offset between model and calExp images
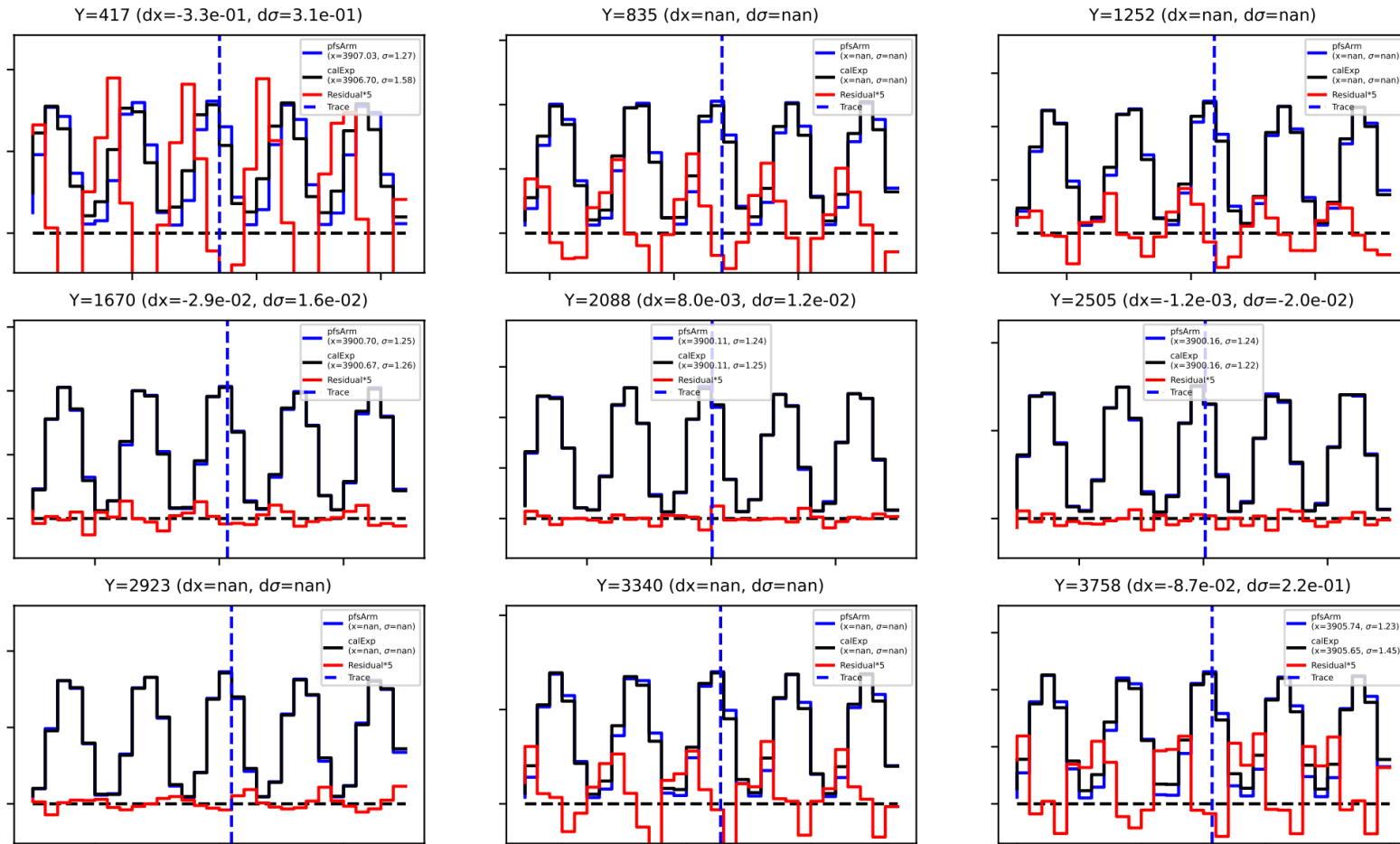

dX (pix)

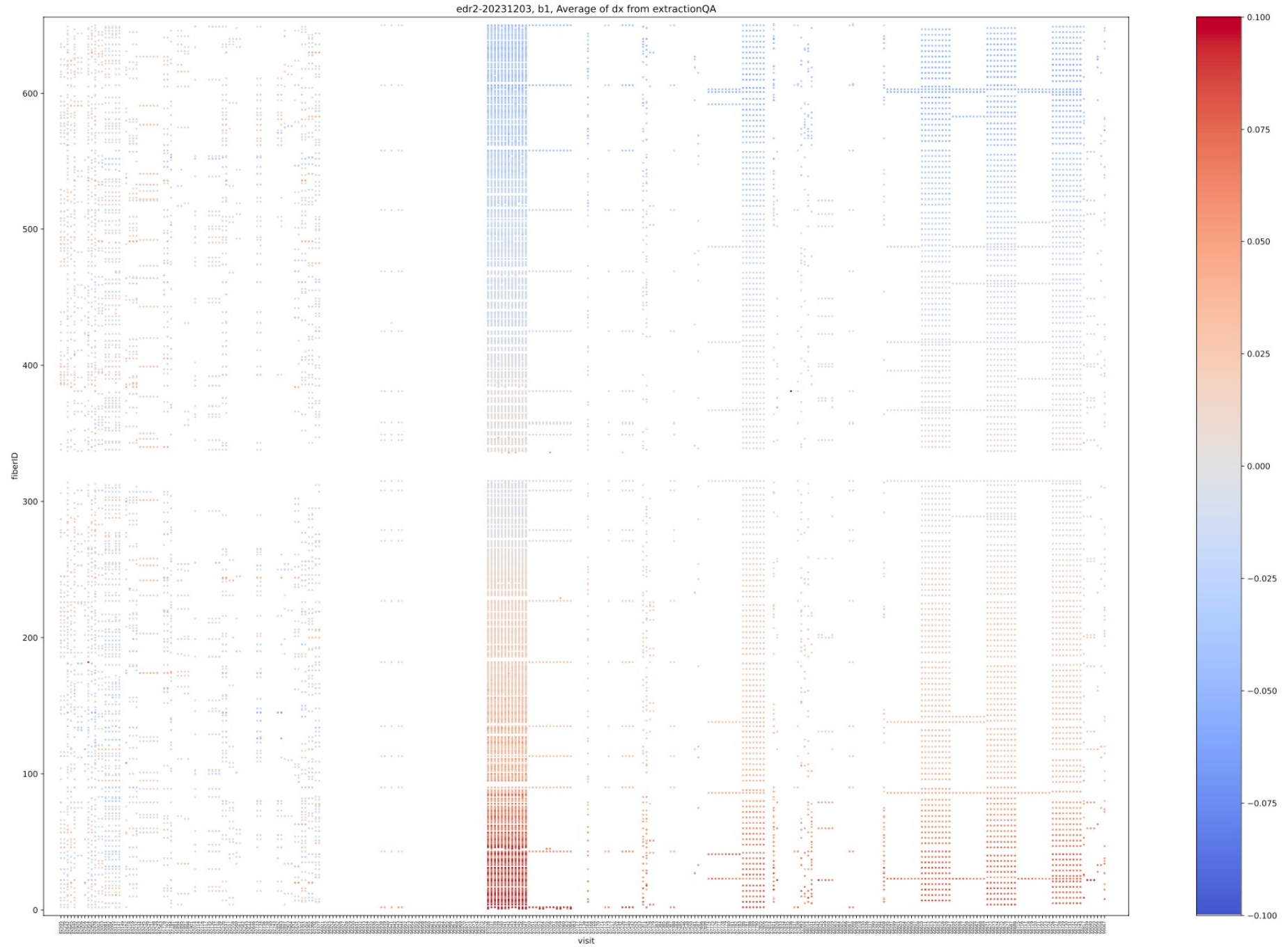Visit=97036 b1 (Quartz)

Width difference between model and calExp images

Cross-cut profiles and residuals
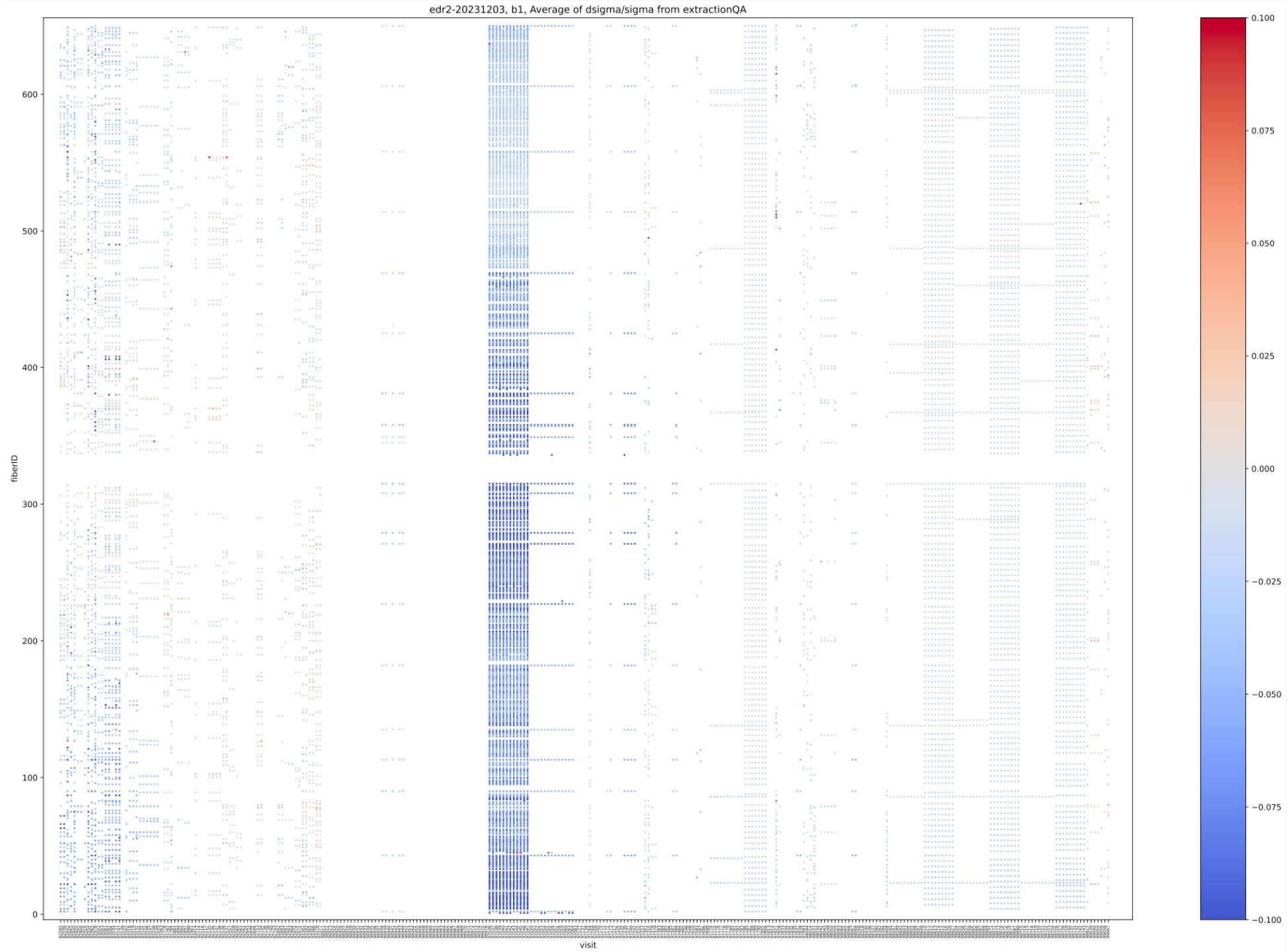

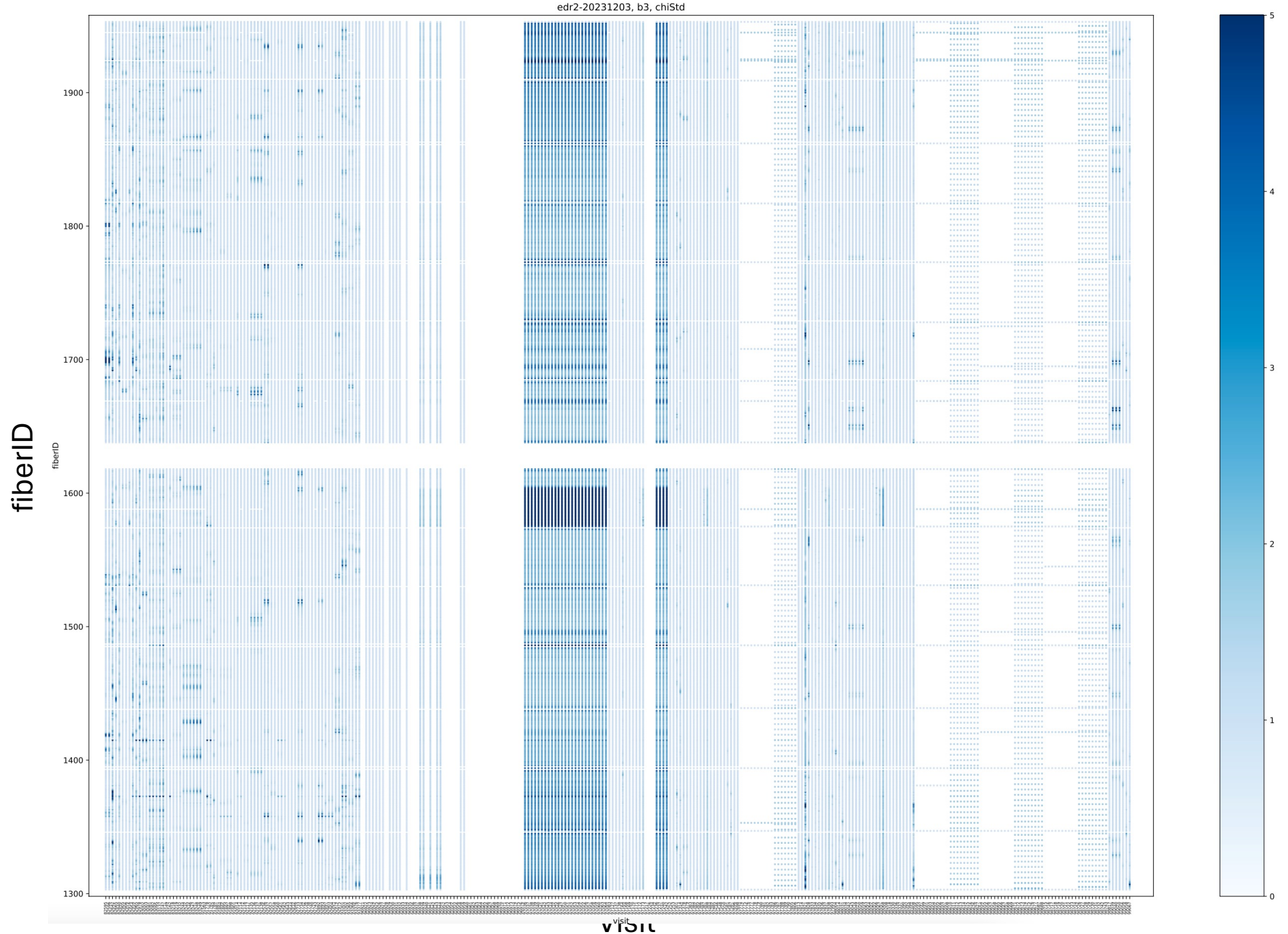visit=97036 arm=b spectrograph=1
f=21, X=3903.3

dX map (b1)

edr2-20231203, b1, Average of dx from extractionQA

dσ/σ map
(b1)

edr2-20231203, b1, Average of dsigma/sigma from extractionQA

b3
chi's rms
for each
fiber

edr2-20231203, b3, chiStd

fiberID

visit

b3

edr2-20231203, b3, chiStd

Two fibers 1373 and 1415 have large chi values in many visits.
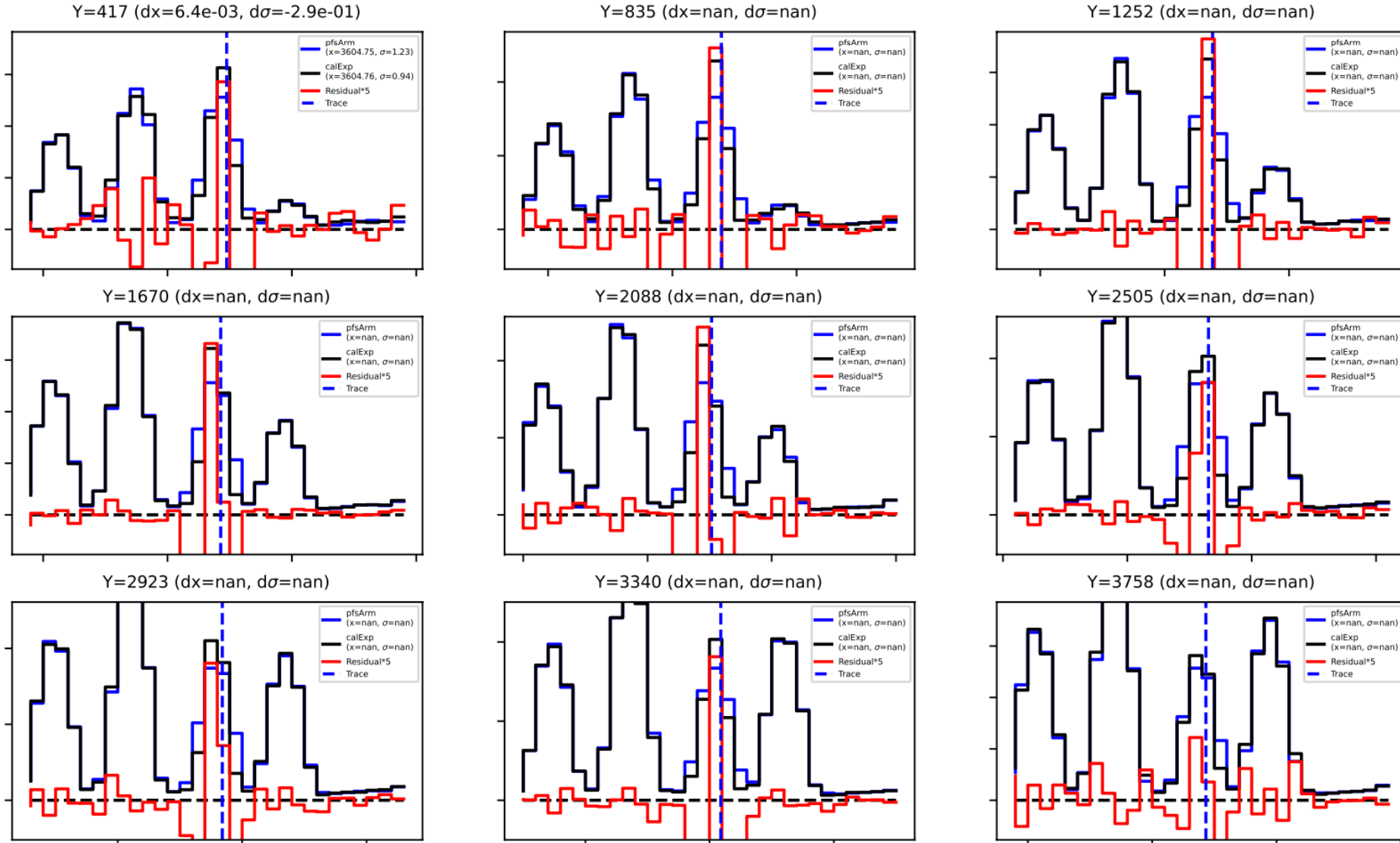
fiberID
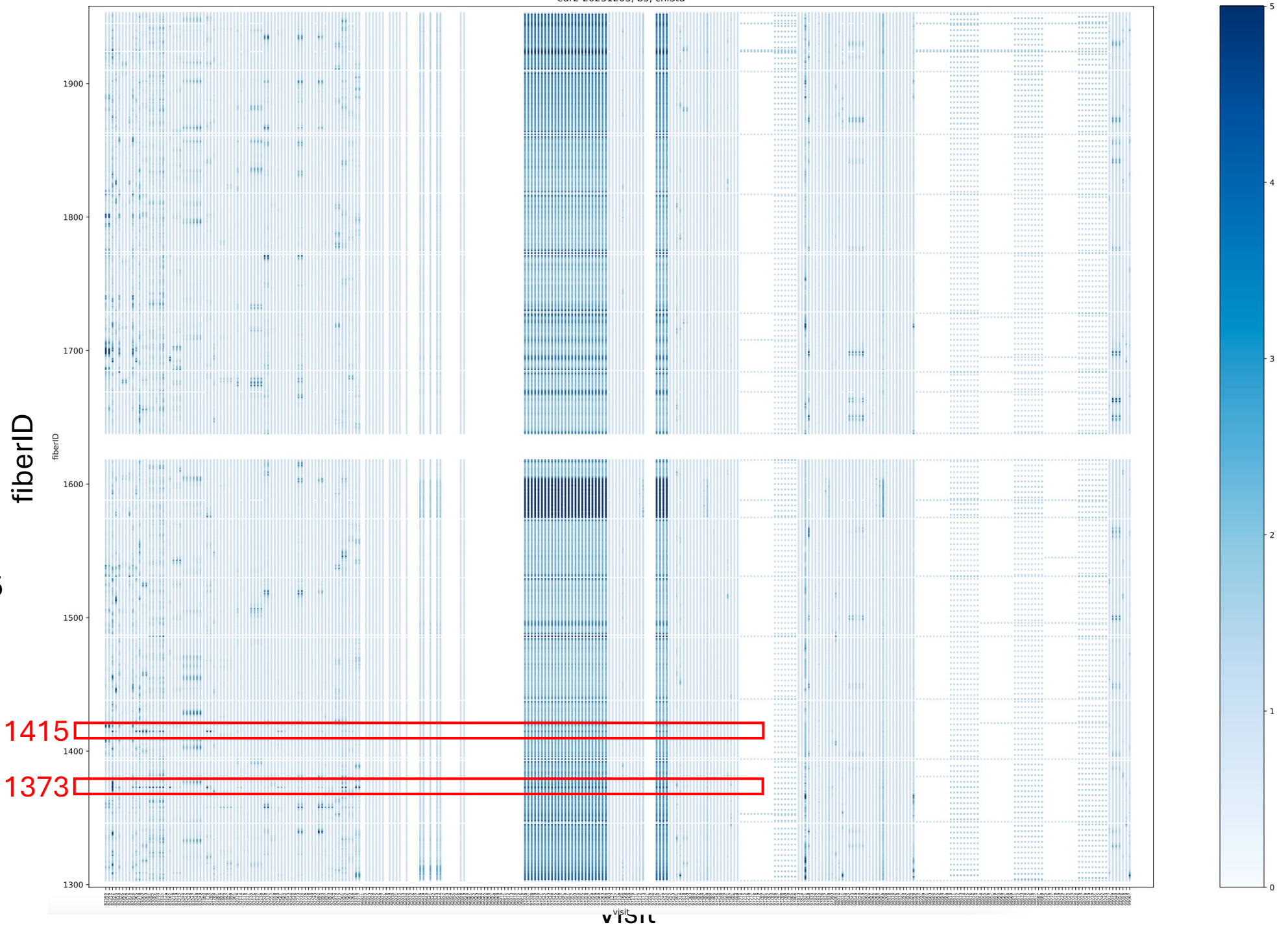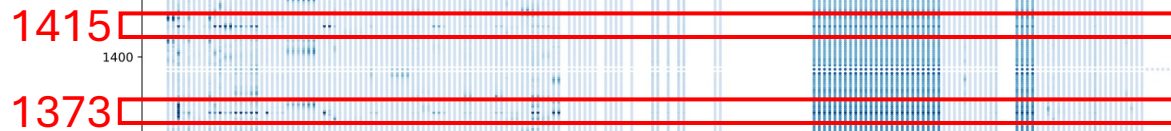
1415

1373

visit

FiberID=1373

visit=83147 arm=b spectrograph=3
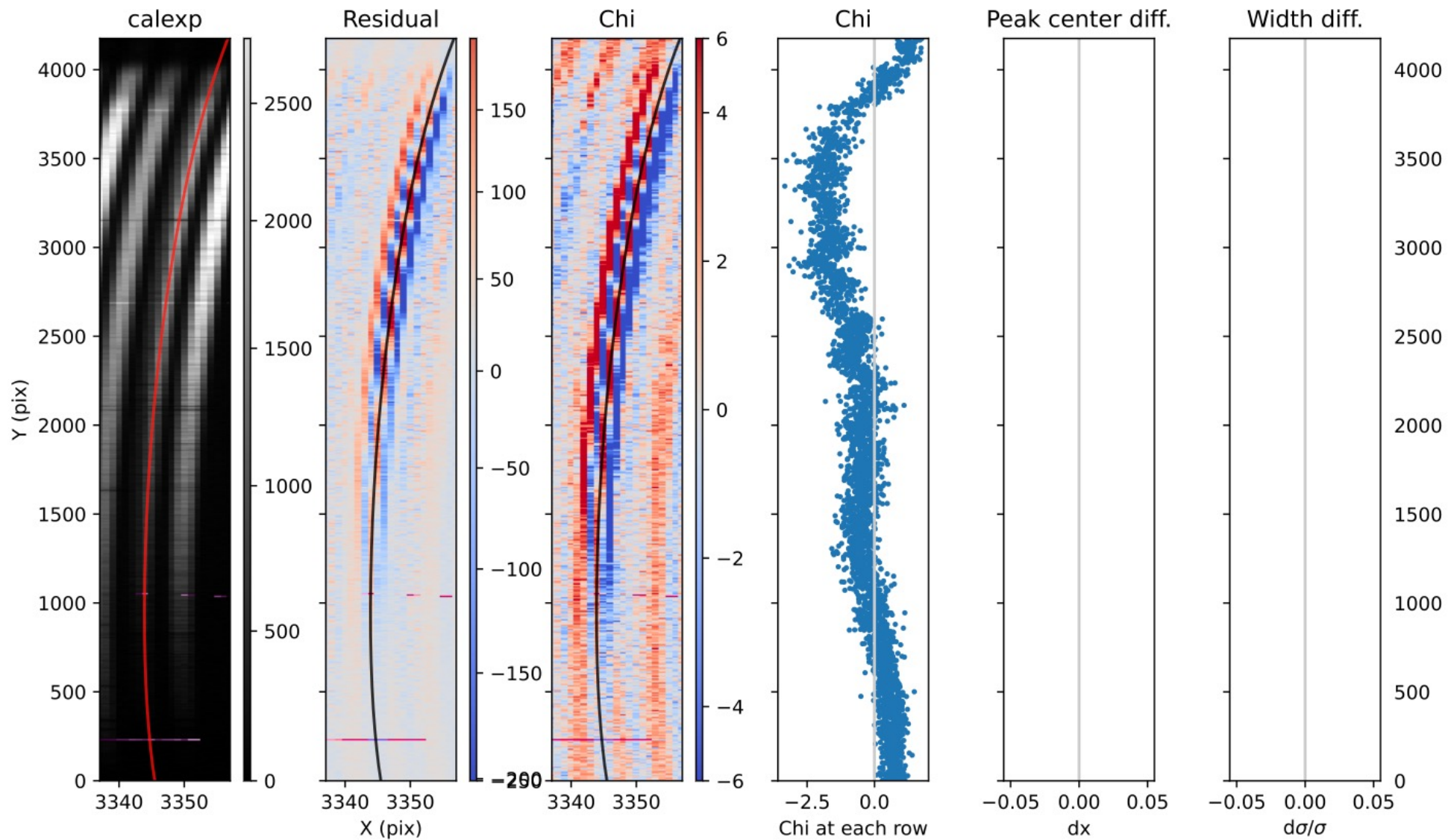f=1373, X=3607.4
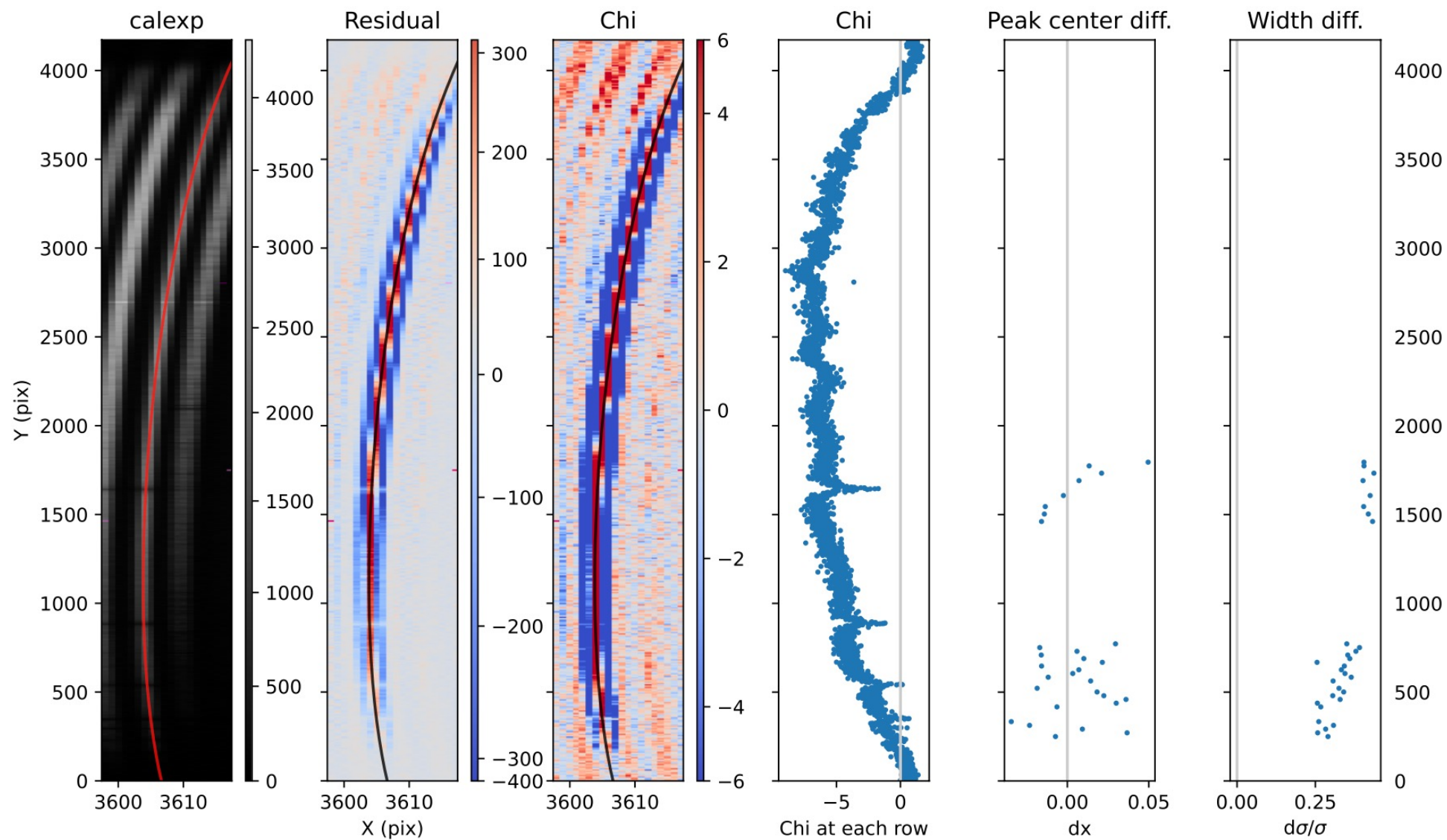
FiberID=1373

visit=83147 arm=b spectrograph=3
f=1373, X=3607.4

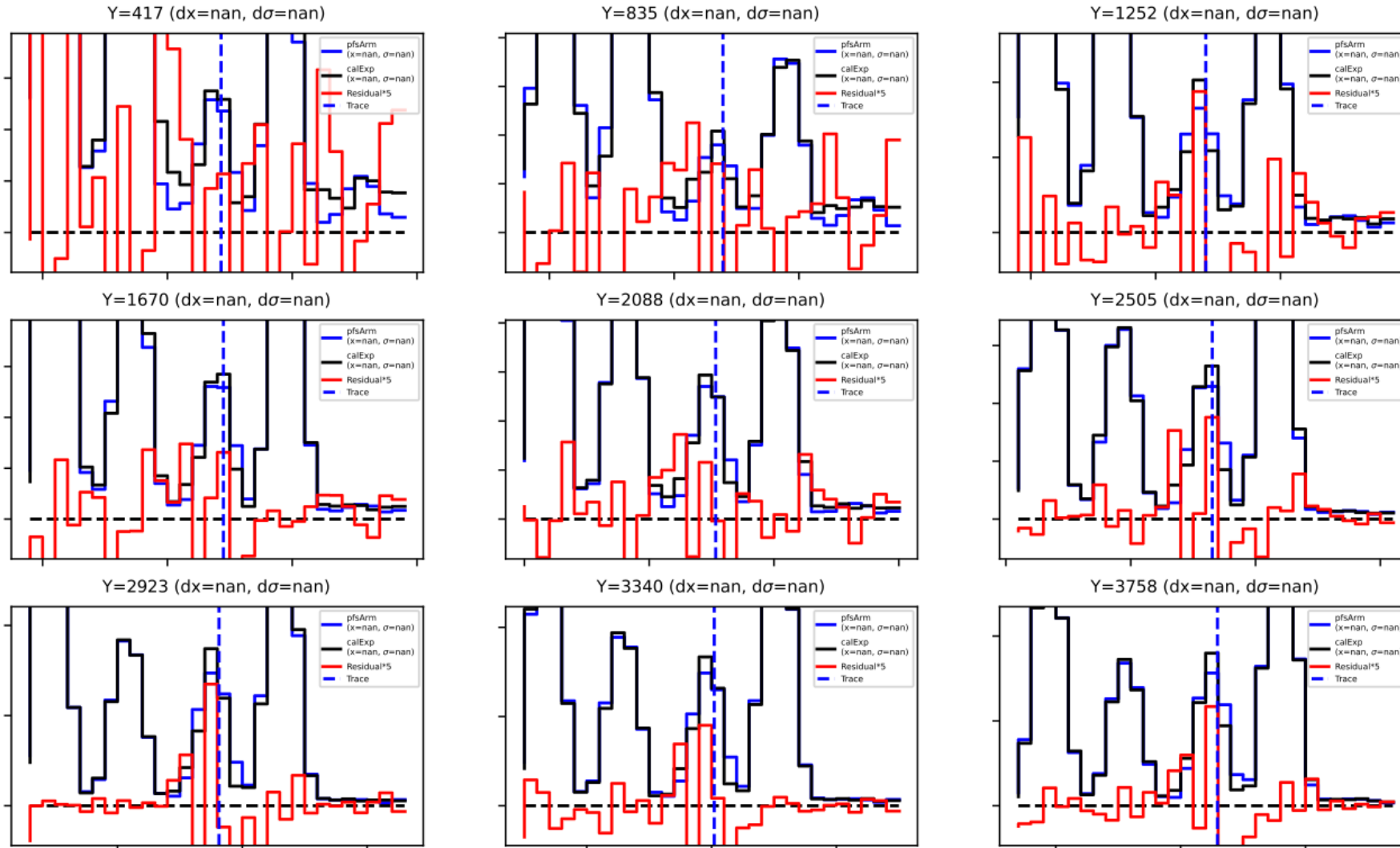# FiberID=1415
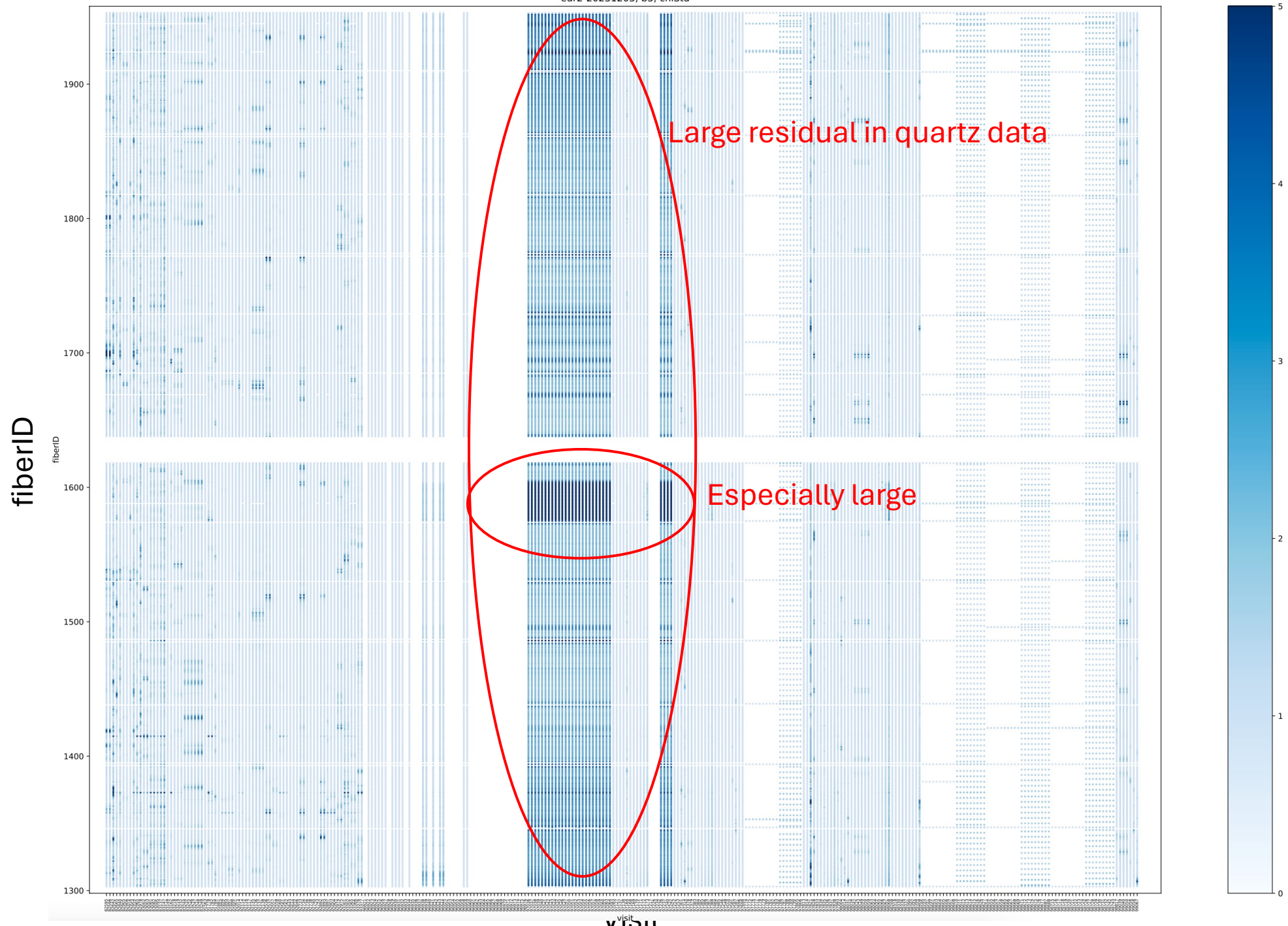

visit=83147 arm=b spectrograph=3
f=1415, X=3347.0

FiberID=1415
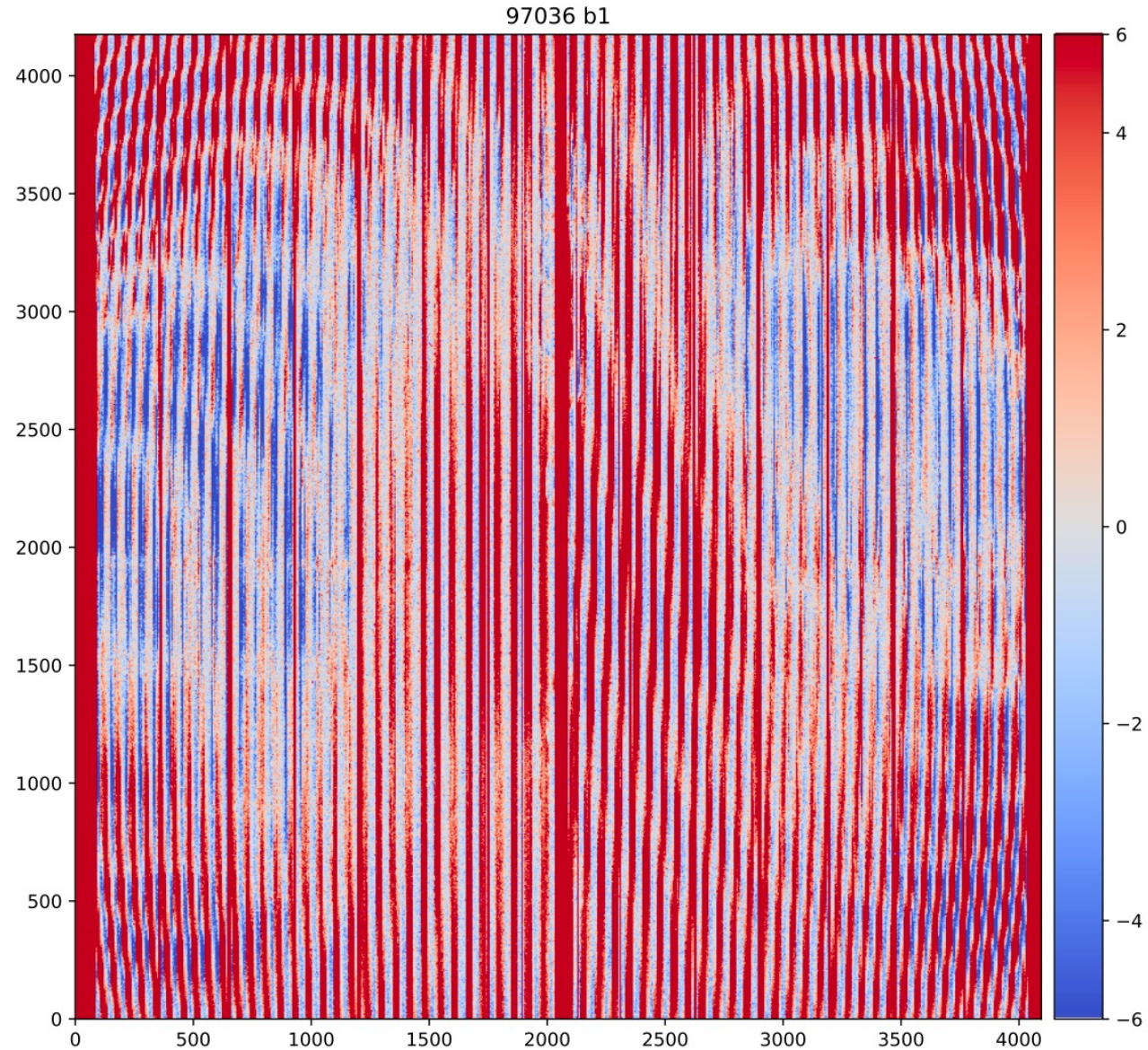

visit=83147 arm=b spectrograph=3
f=1415, X=3347.0

edr2-20231203, b3, chiStd

b3

fiberID

Large residual in quartz data

Especially large

Chi map for Visit=97036 (Quartz)

97036 b1

Offset between model and calExp images

dX (pix)

Visit=97036 b3 (Quartz)

Width difference between model and calExp images
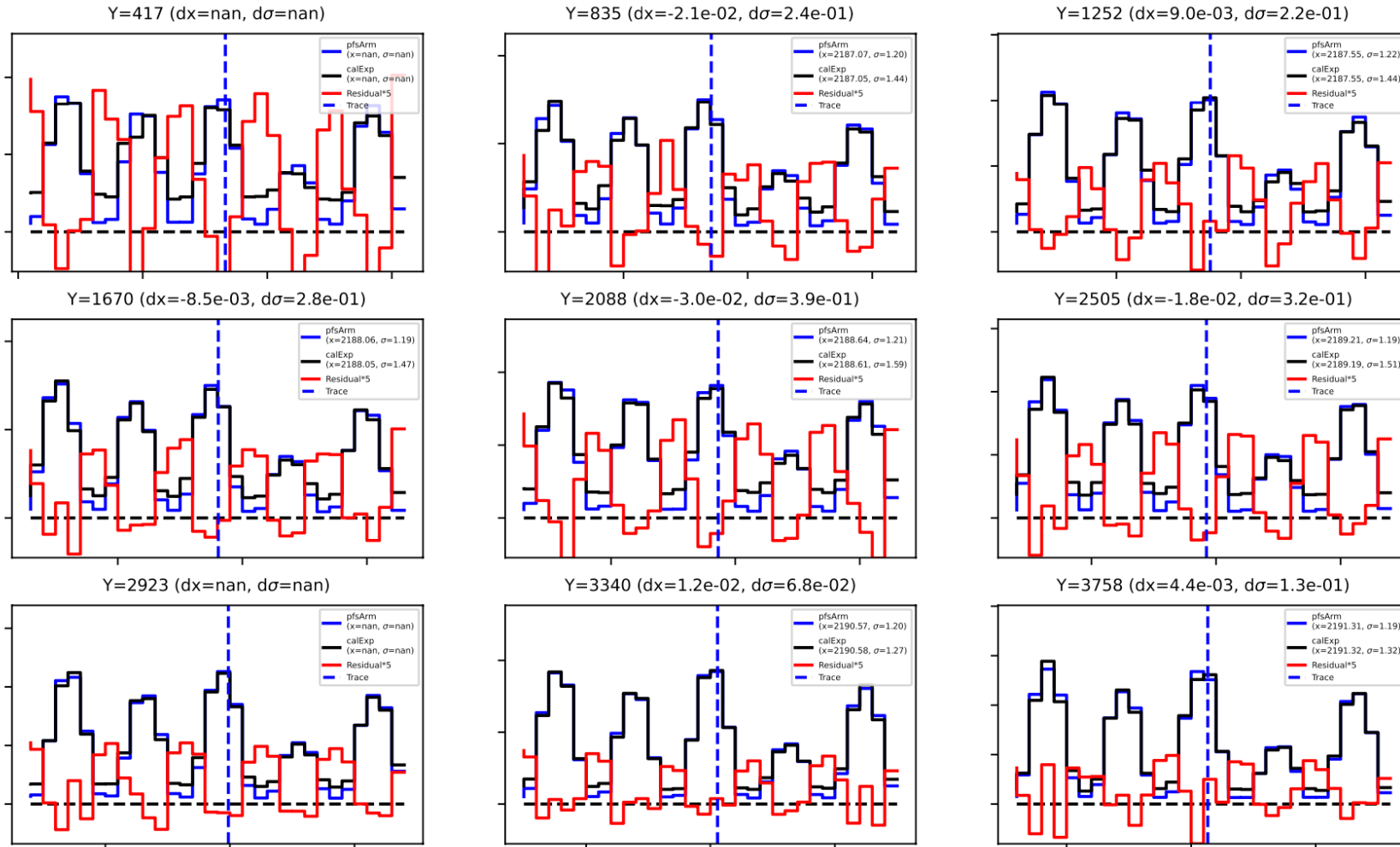

dσ/σ
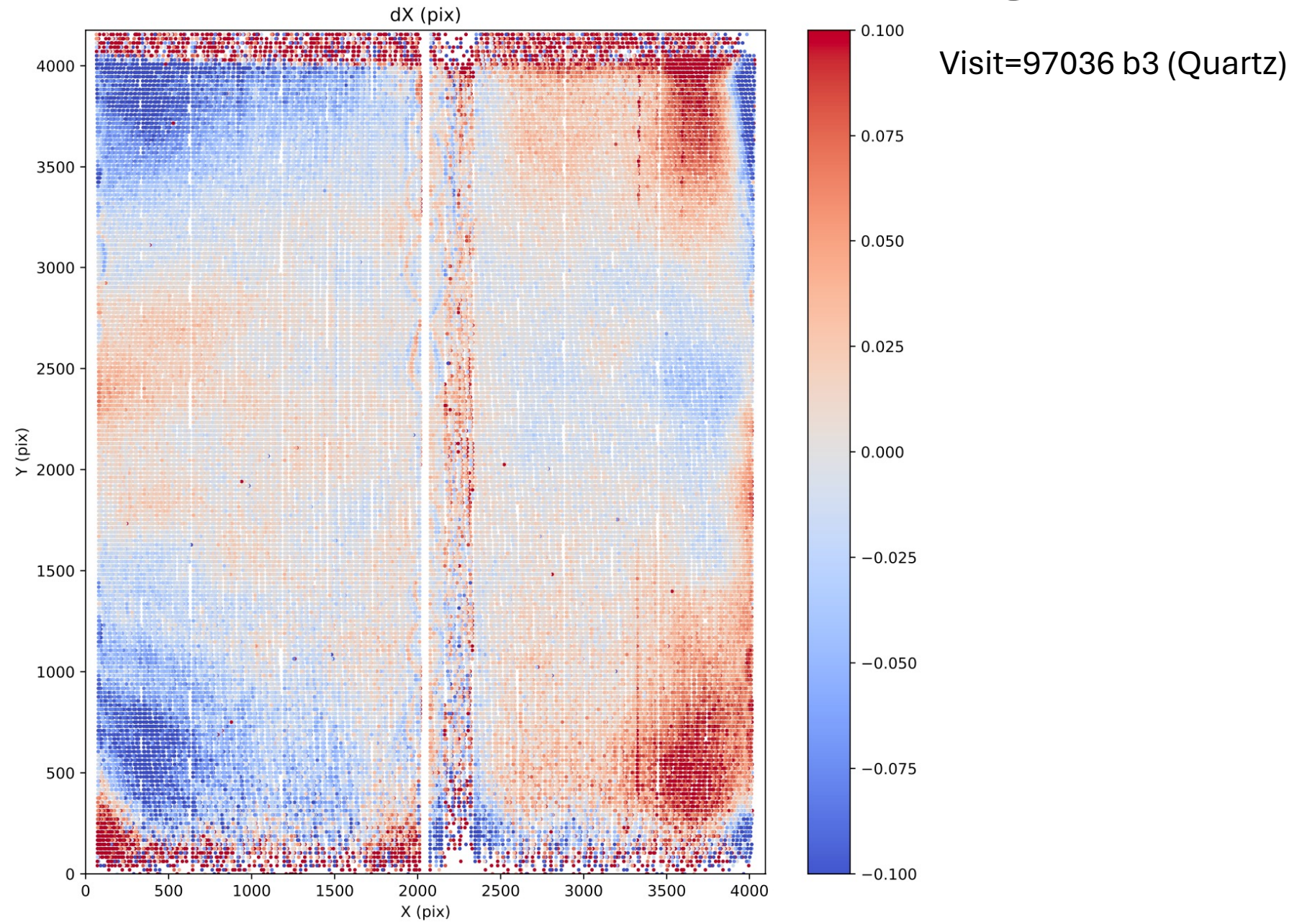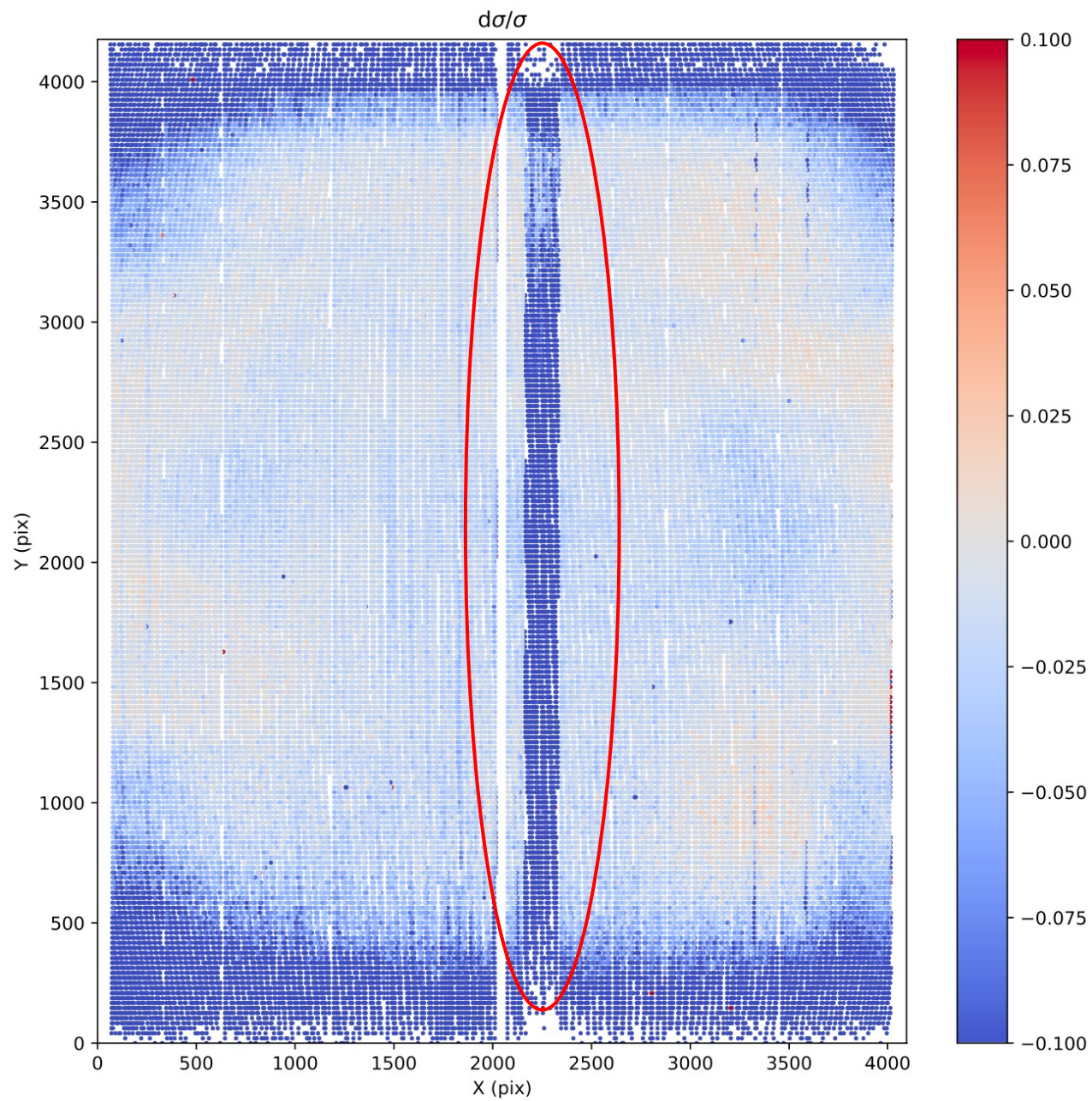
Visit=97036 b3 (Quartz)

Fibers with especially large residuals have large width differences.

Cross-cut profiles and residuals

visit=97036 arm=b spectrograph=3
f=1599, X=2188.8

dX map (b3)

edr2-20231203, b3, Average of dx from extractionQA

dσ/σ map (b3)

edr2-20231203, b3, Average of dsigma/sigma from extractionQA