

\*\*\*\*\* Summary for 'm4U-240618-f02-02-01-01' \*\*\*\*\*

04-Aug-2024 14:51:28

Energy: ### 3.0 GeV

Circumference: ## 528.0 m

Full tunes H/V: ## 51.24 / 21.22

Momentum Compaction Factor: # 9.39e-05

Chromaticity H: ##+1.00

Chromaticity V: ##+1.00

Radiation Loss: ## 454.0 keV

Natural Energy Spread: # 0.09 %

Natural Emittance: ## 106.2 pmrad

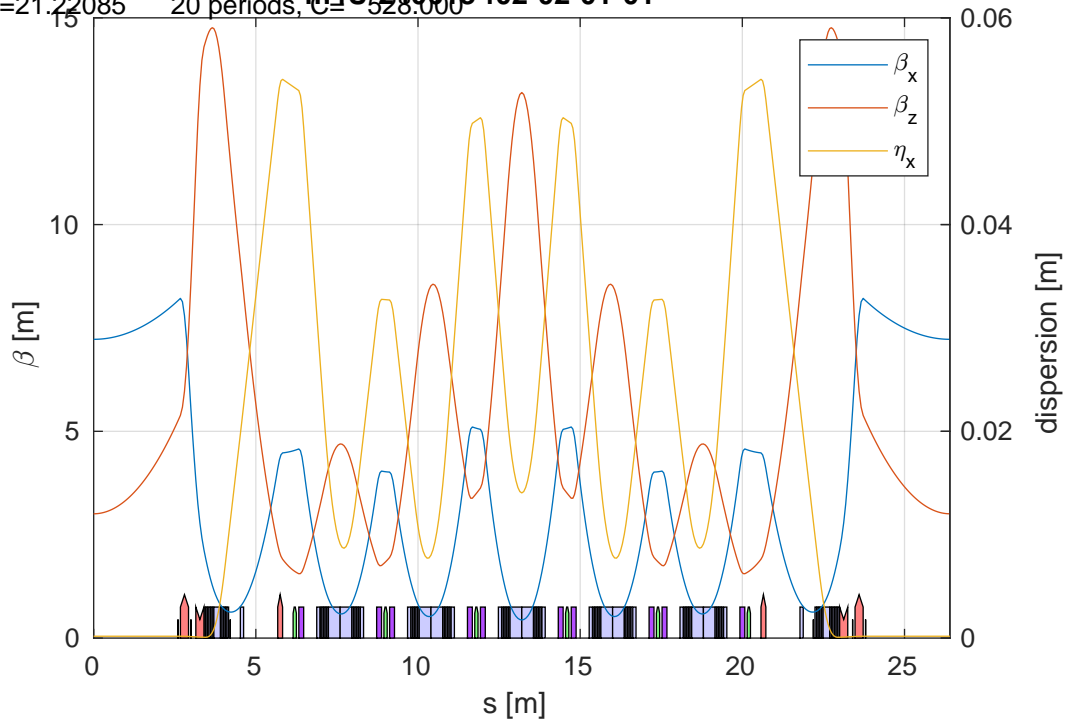
RF Voltage: # 1.8 MV

Achromat natural chromaticities: H/V## -3.56 / -2.79

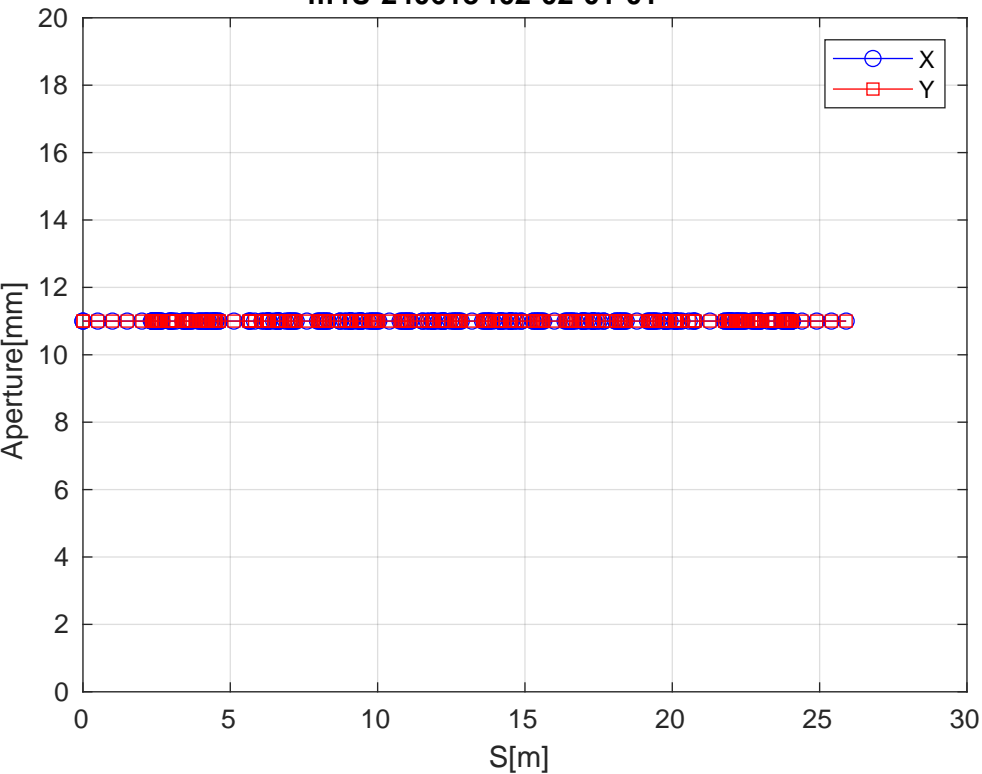
Achromat tunes H/V: ## 2.56 / 1.06

$\nu_x = 51.23777$  $\delta p/p = 0.000$  $\nu_z = 21.22085$ 20 periods,  $C = 528.000$ 

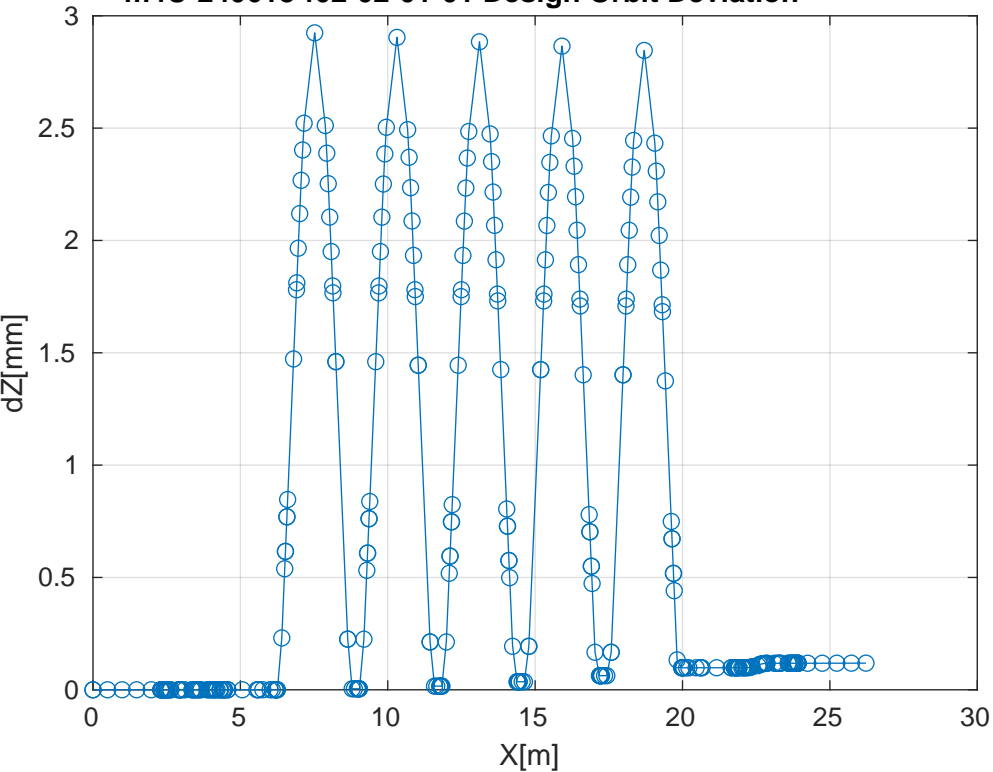
m4U-240618-f02-02-01-01



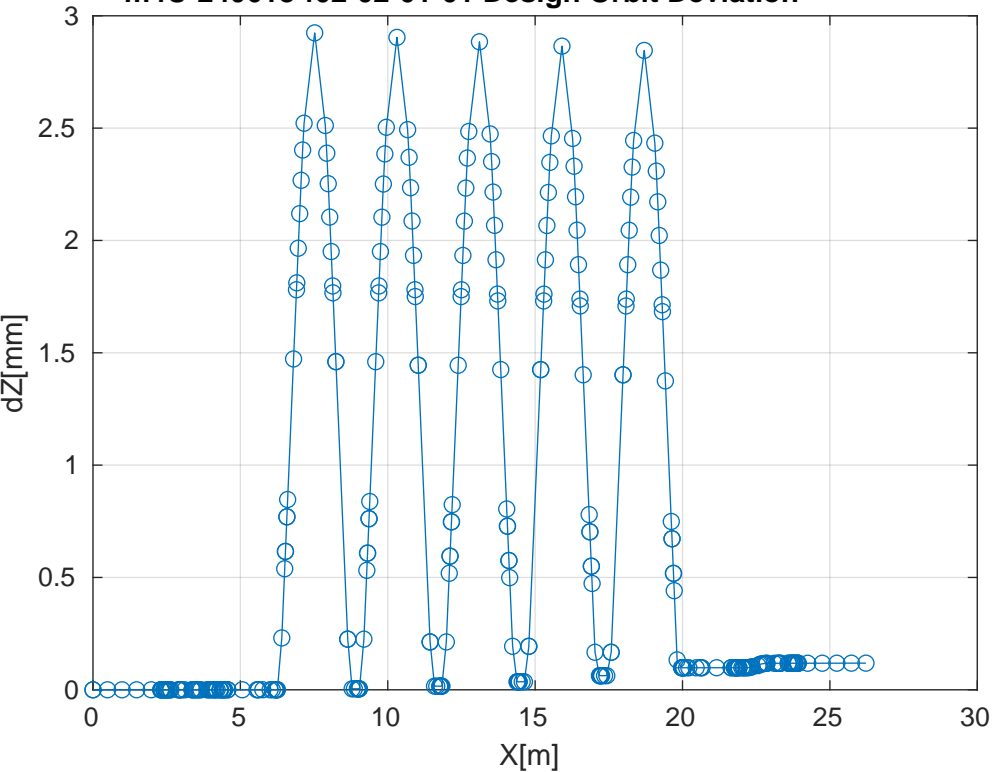
m4U-240618-f02-02-01-01



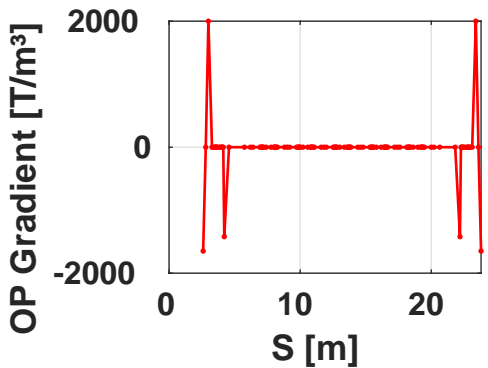
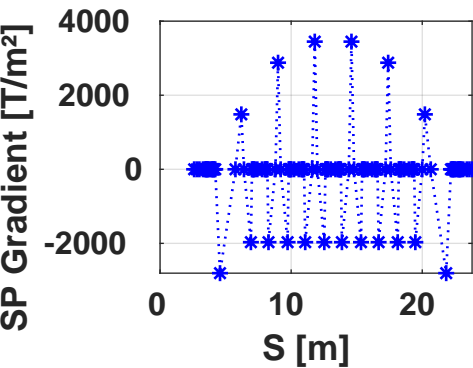
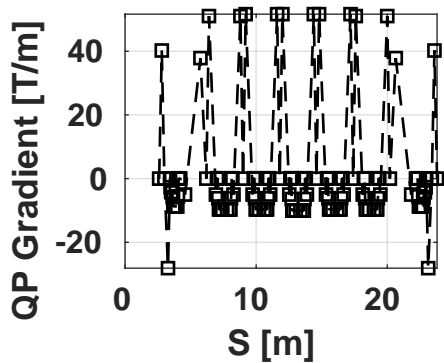
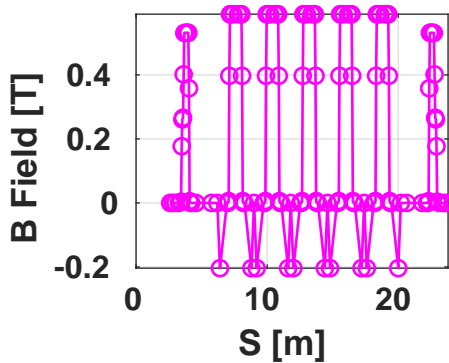
m4U-240618-f02-02-01-01 Design Orbit Deviation



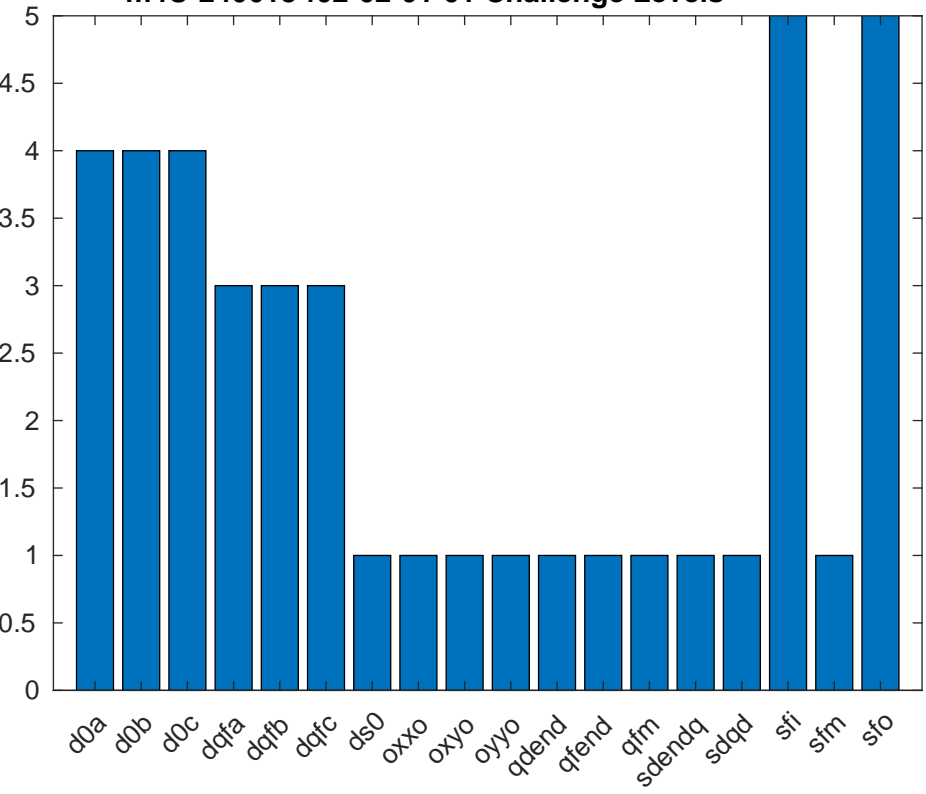
m4U-240618-f02-02-01-01 Design Orbit Deviation



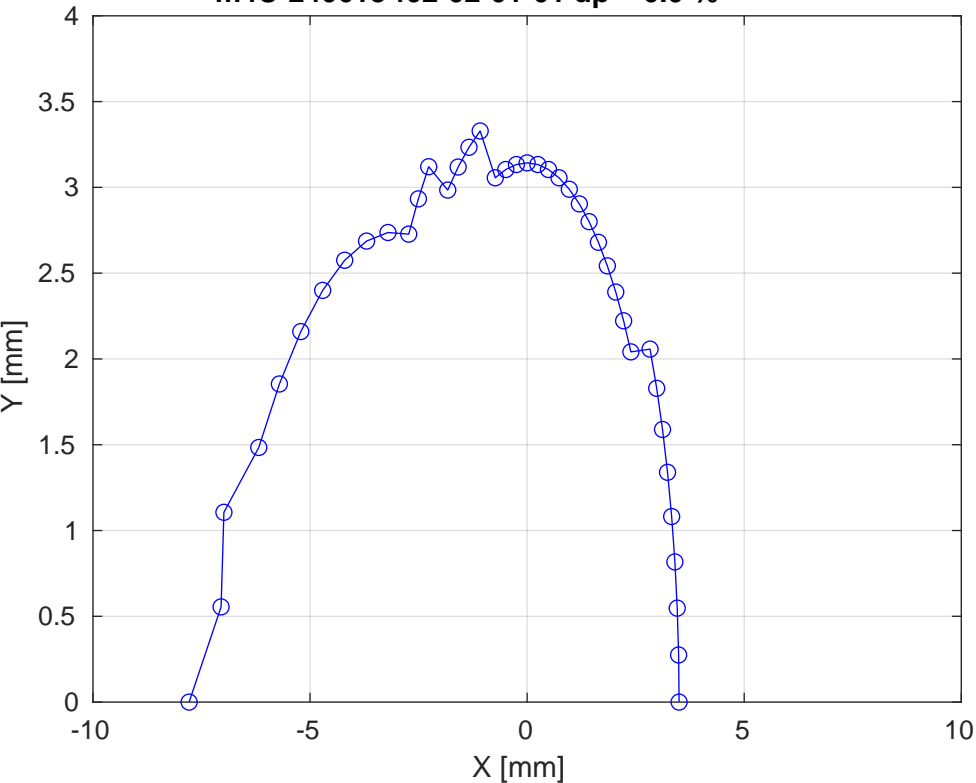
m4U-240618-f02-02-01-01



m4U-240618-f02-02-01-01 Challenge Levels

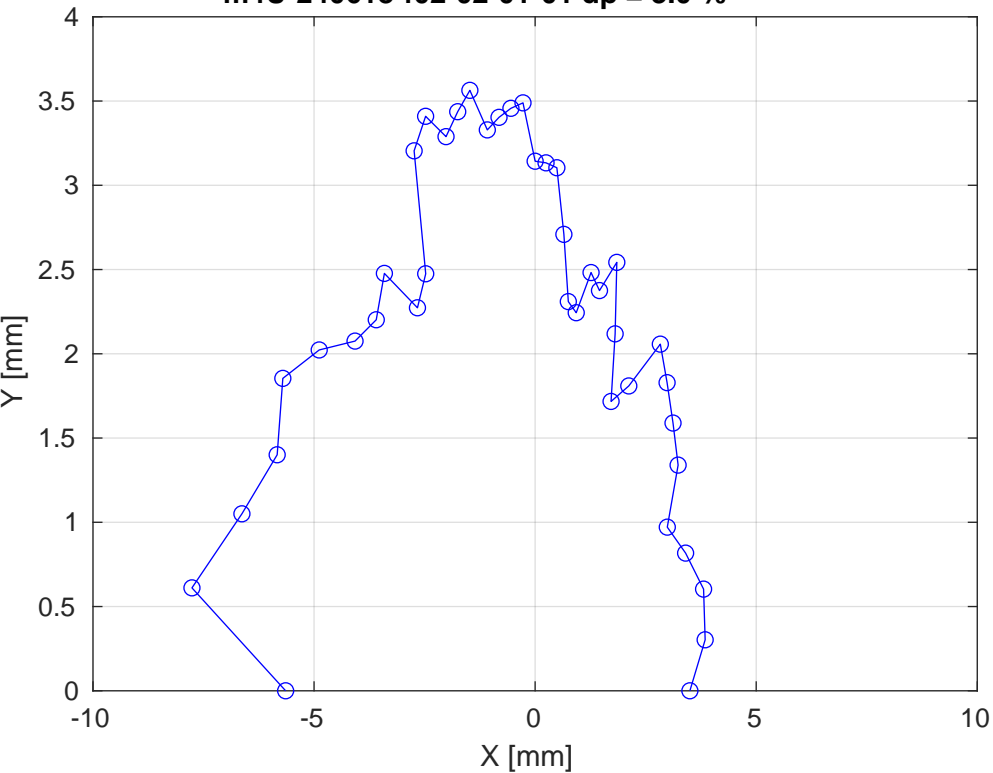


m4U-240618-f02-02-01-01 dp = 0.0 %

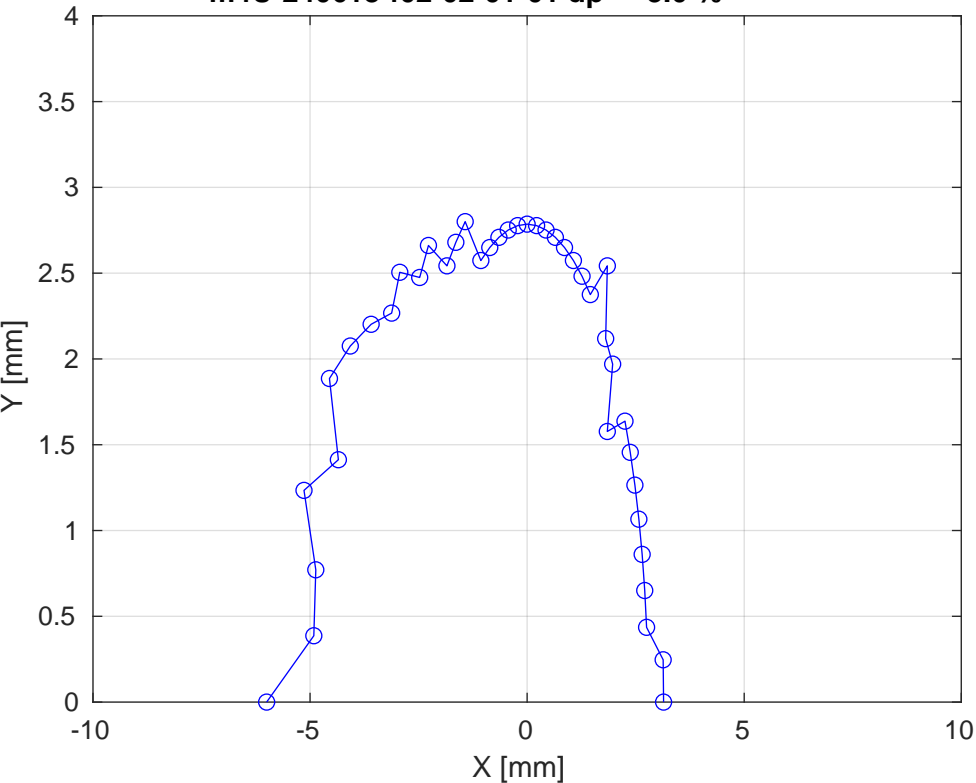




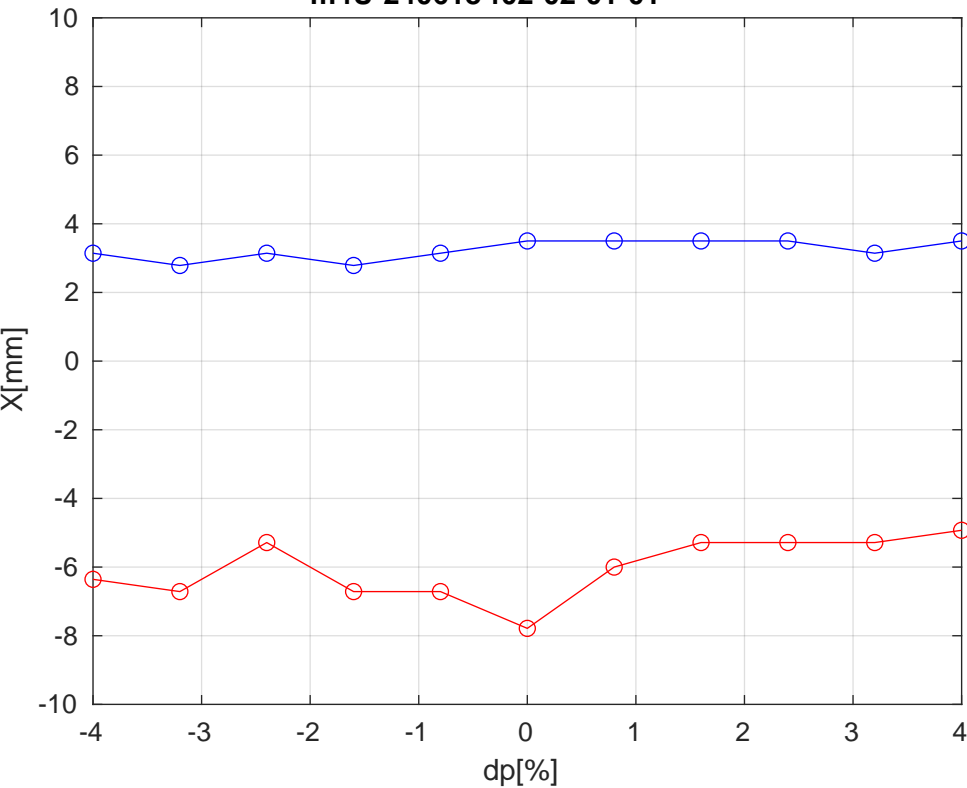
m4U-240618-f02-02-01 dp = 3.0 %



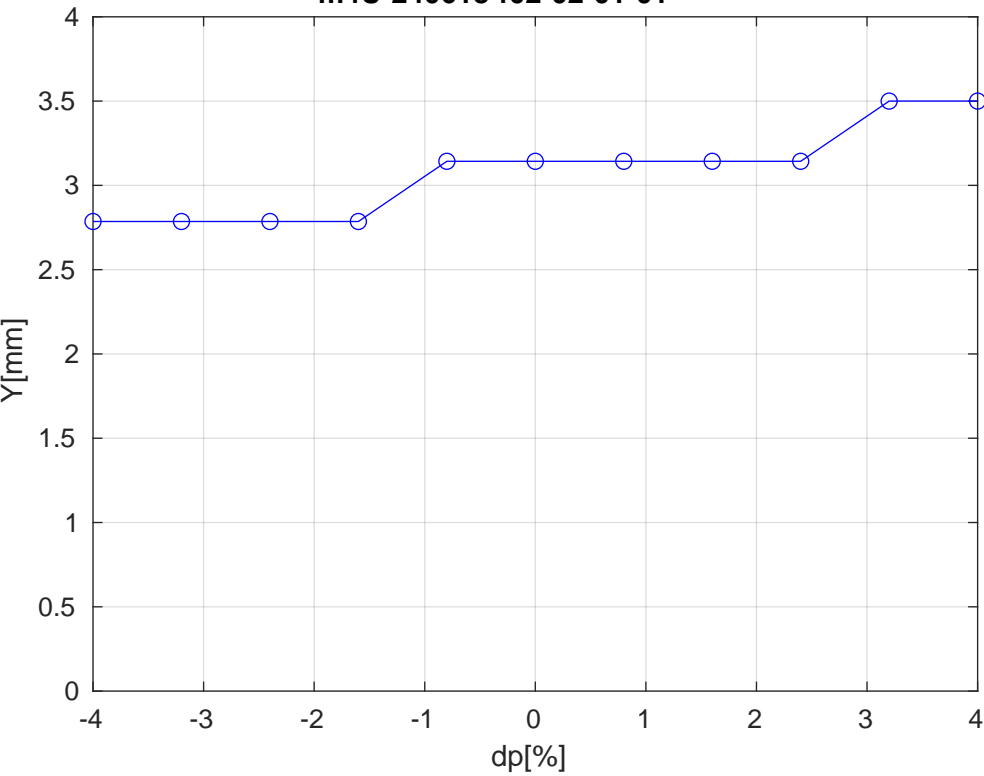
m4U-240618-f02-02-01-01 dp = -3.0 %



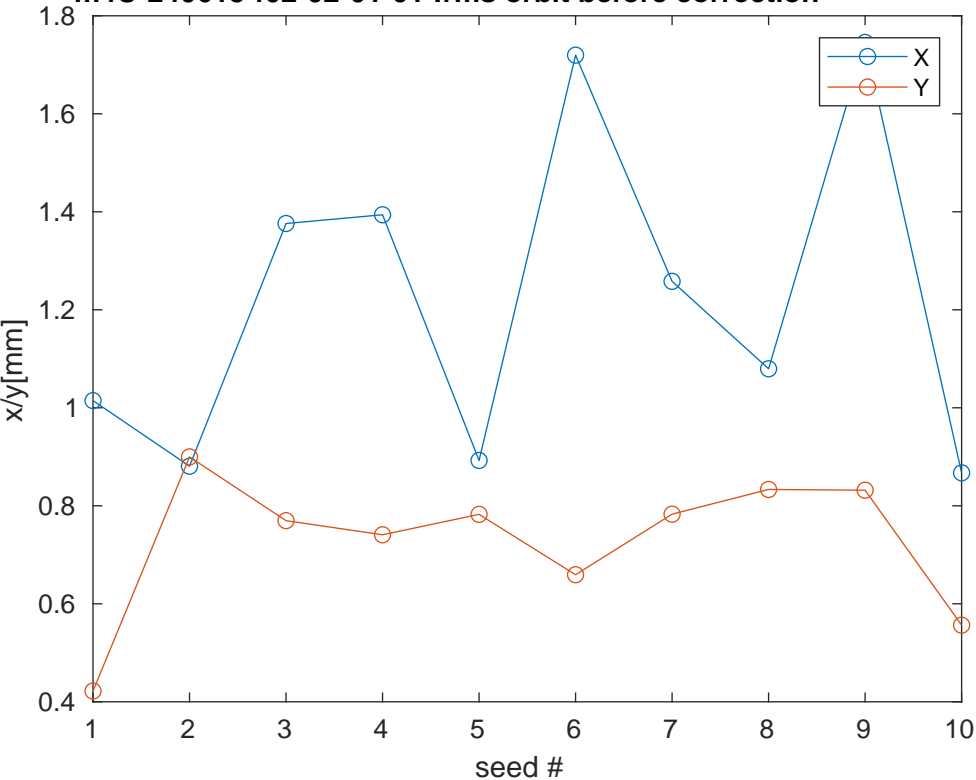
m4U-240618-f02-02-01-01



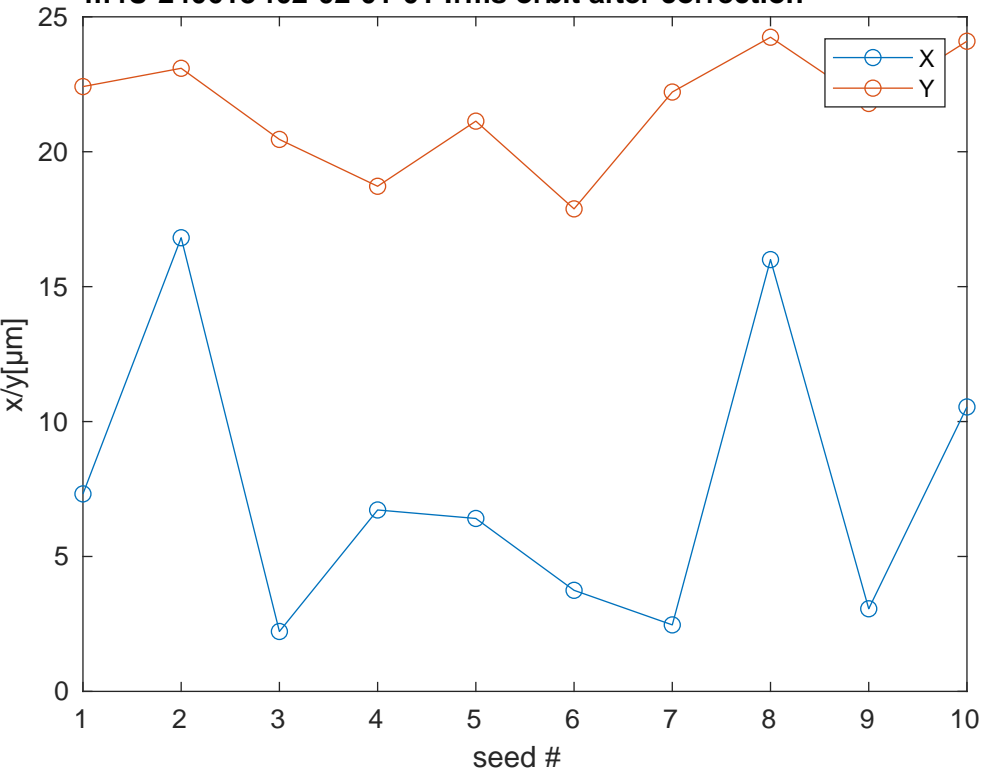
m4U-240618-f02-02-01-01



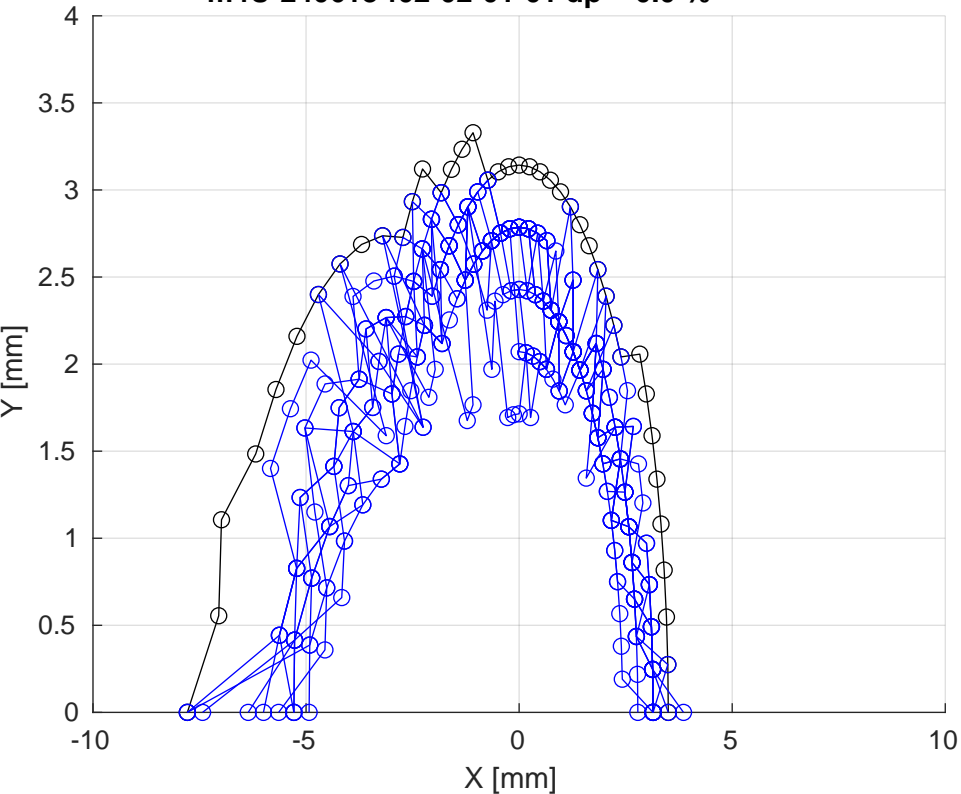
m4U-240618-f02-02-01-01 :rms orbit before correction



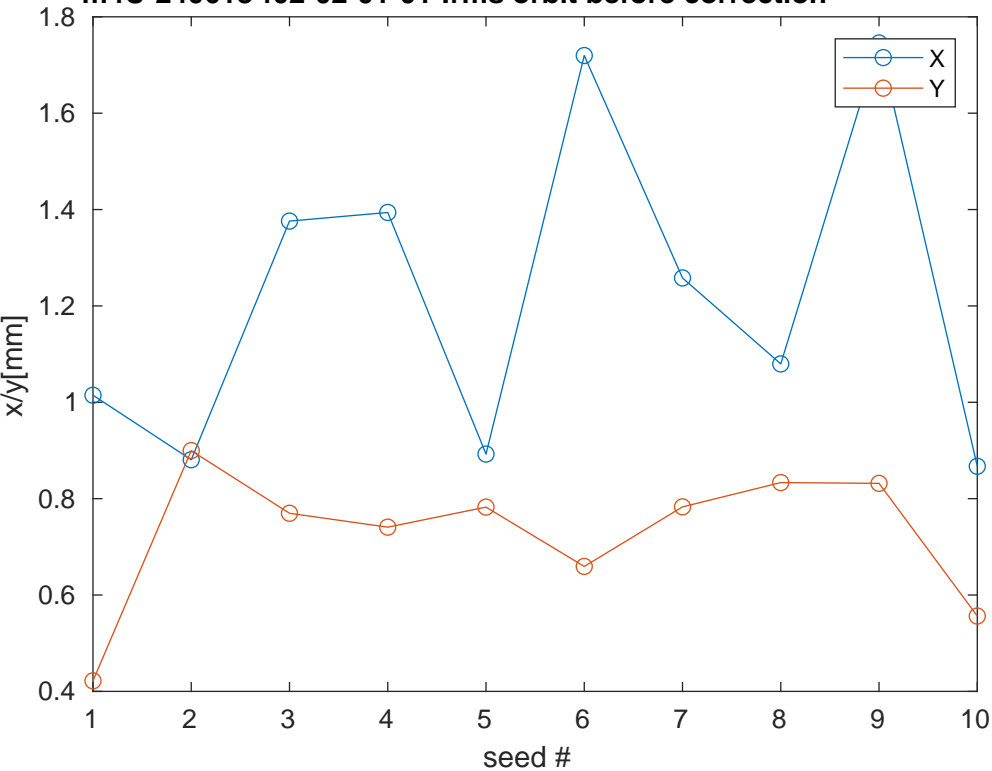
m4U-240618-f02-02-01-01 :rms orbit after correction



m4U-240618-f02-02-01-01 dp = 0.0 %

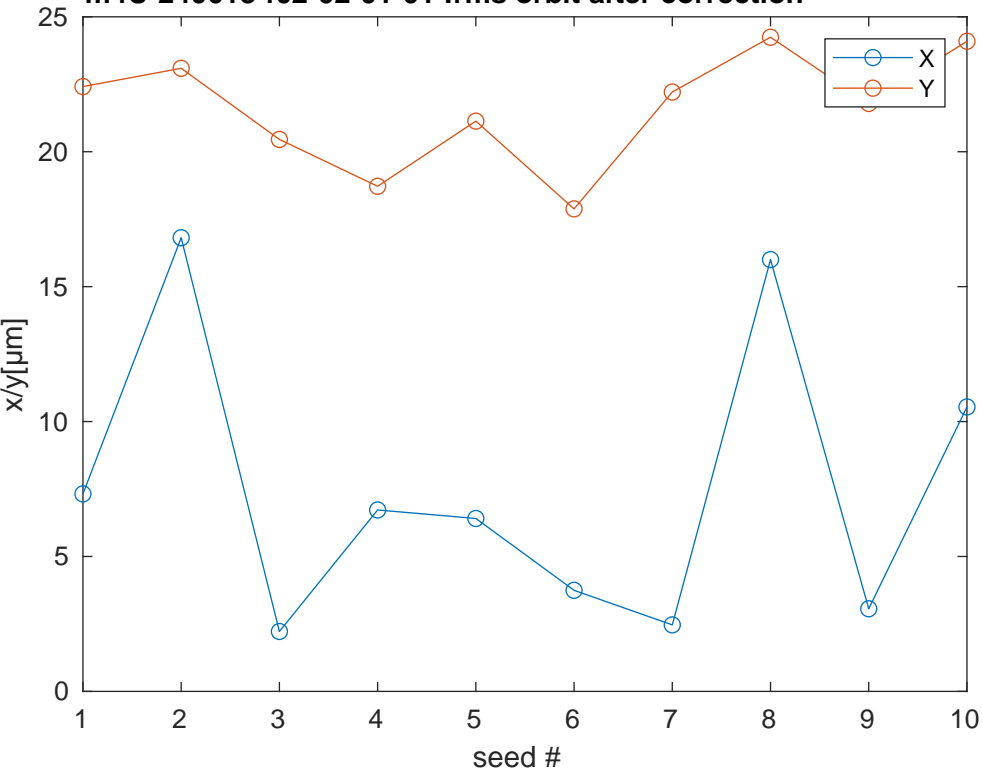


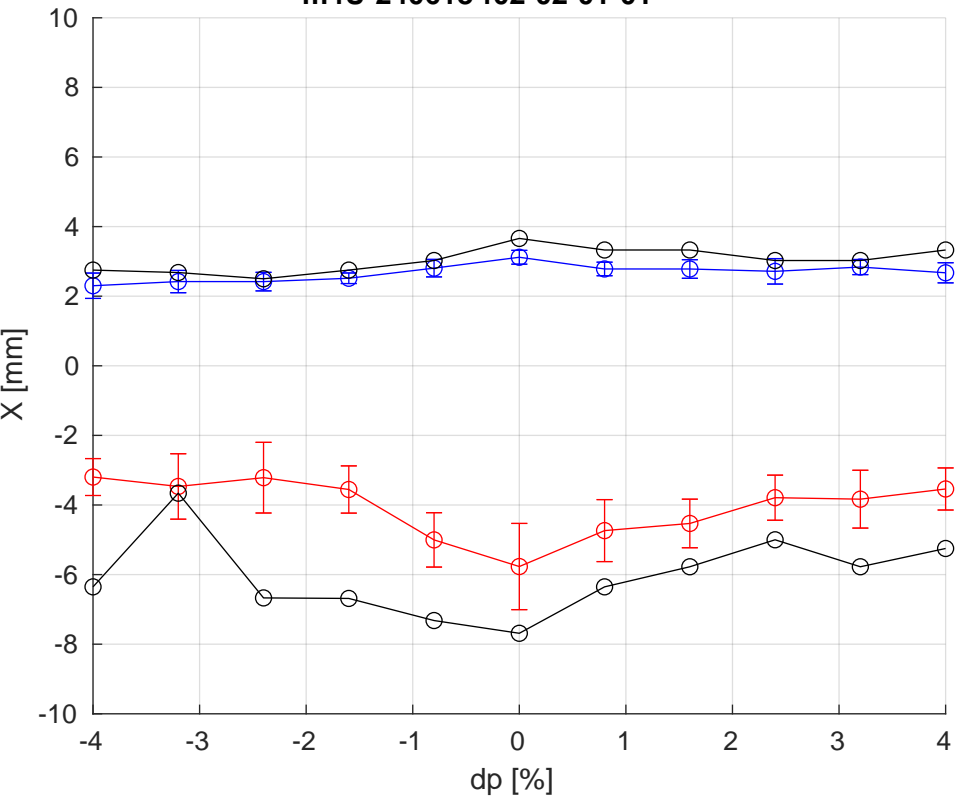
m4U-240618-f02-02-01-01 :rms orbit before correction



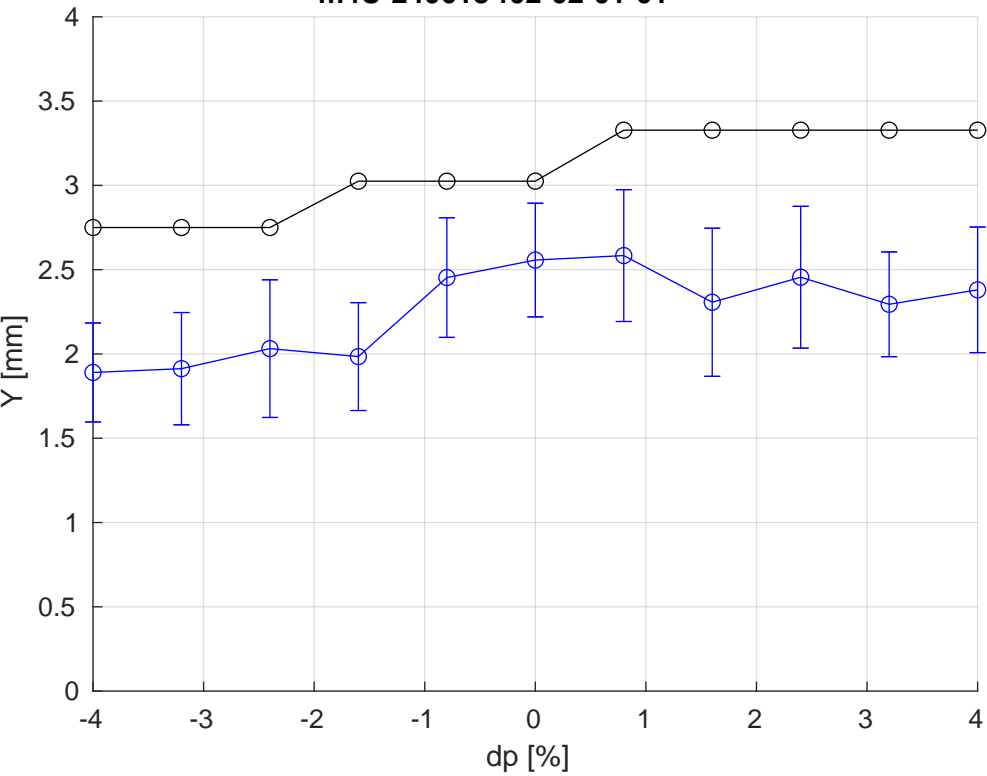


m4U-240618-f02-02-01-01 :rms orbit after correction

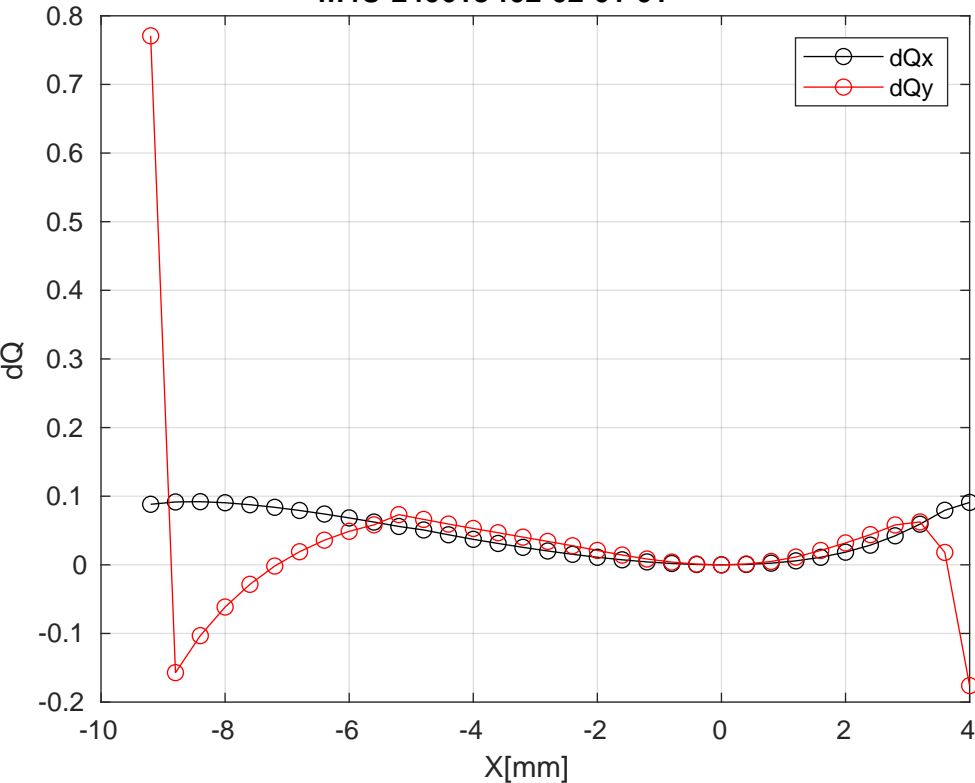




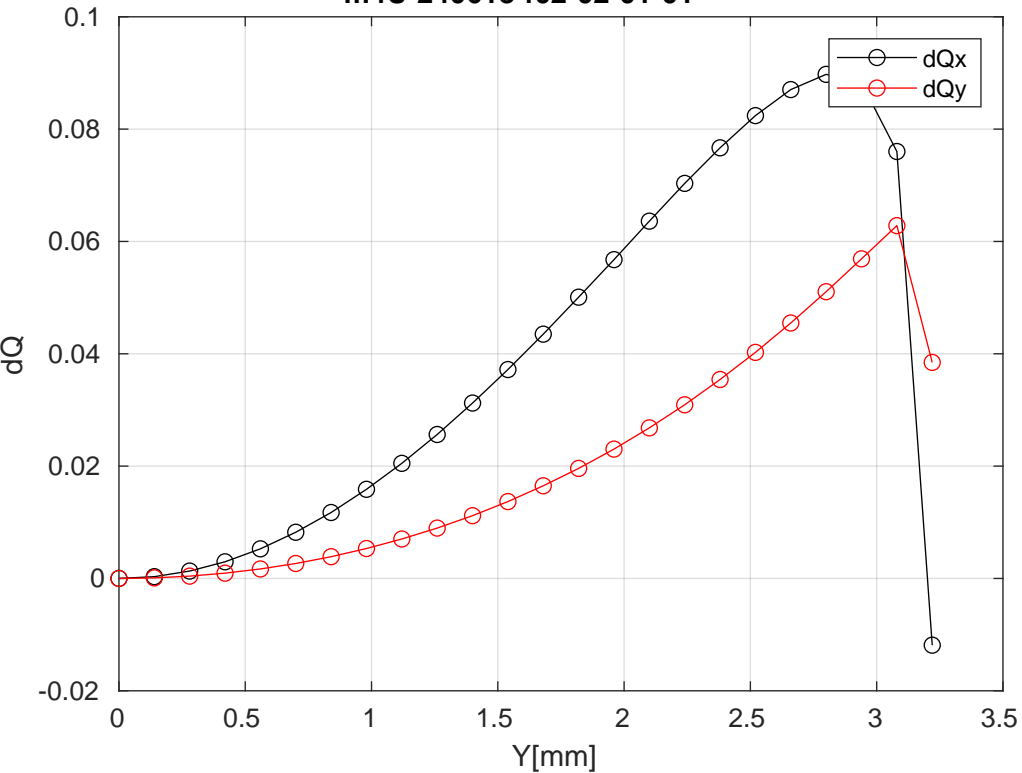
m4U-240618-f02-02-01-01



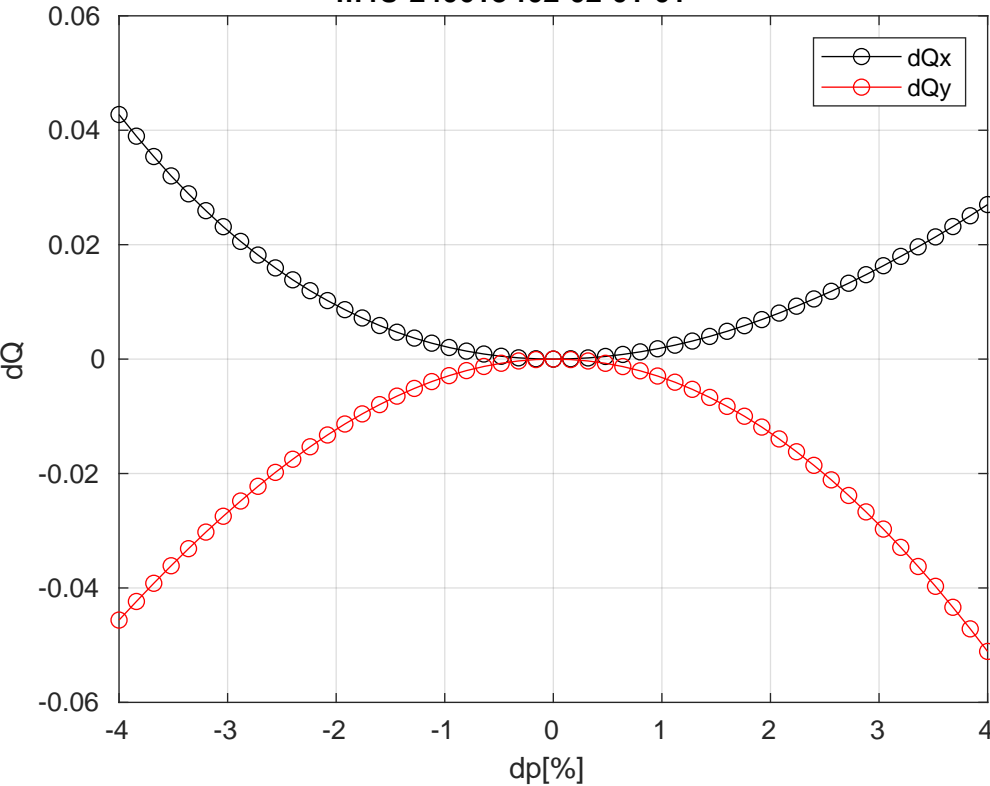
m4U-240618-f02-02-01-01



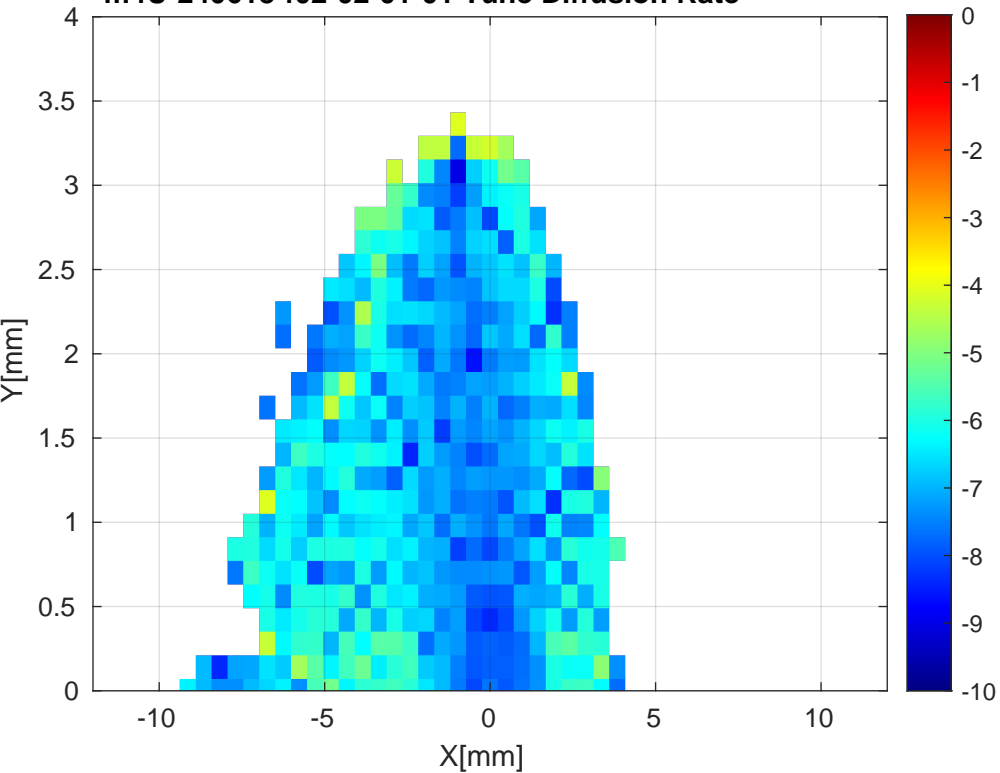
m4U-240618-f02-02-01-01



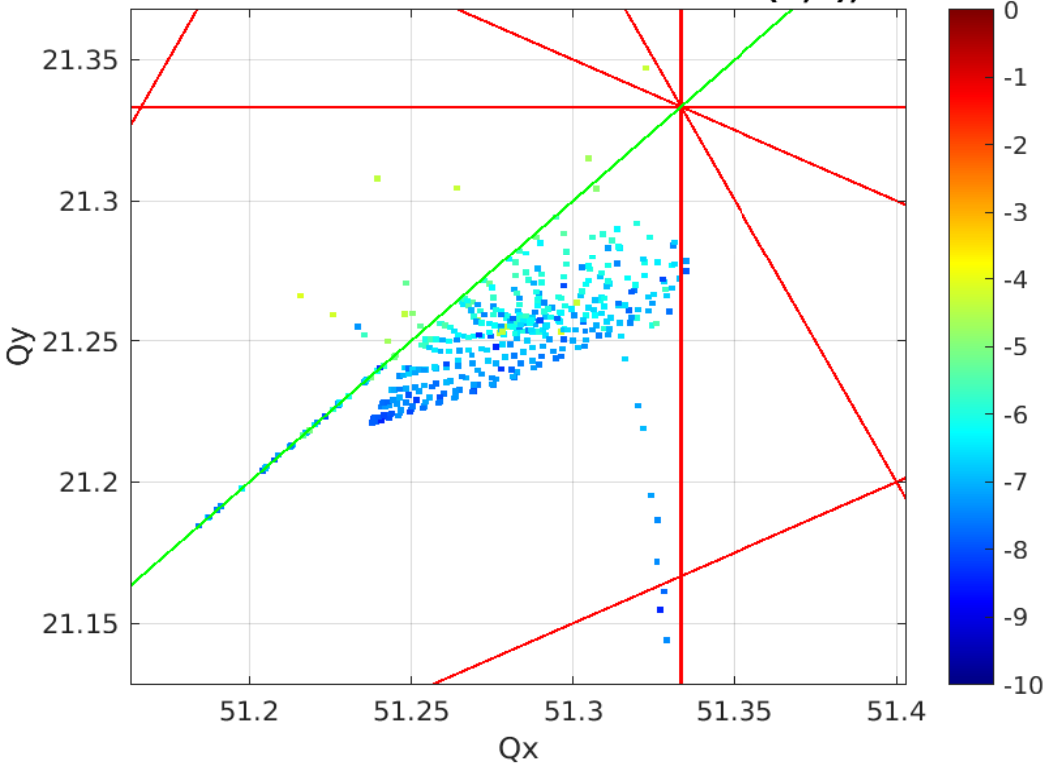
m4U-240618-f02-02-01-01



m4U-240618-f02-02-01-01 Tune Diffusion Rate

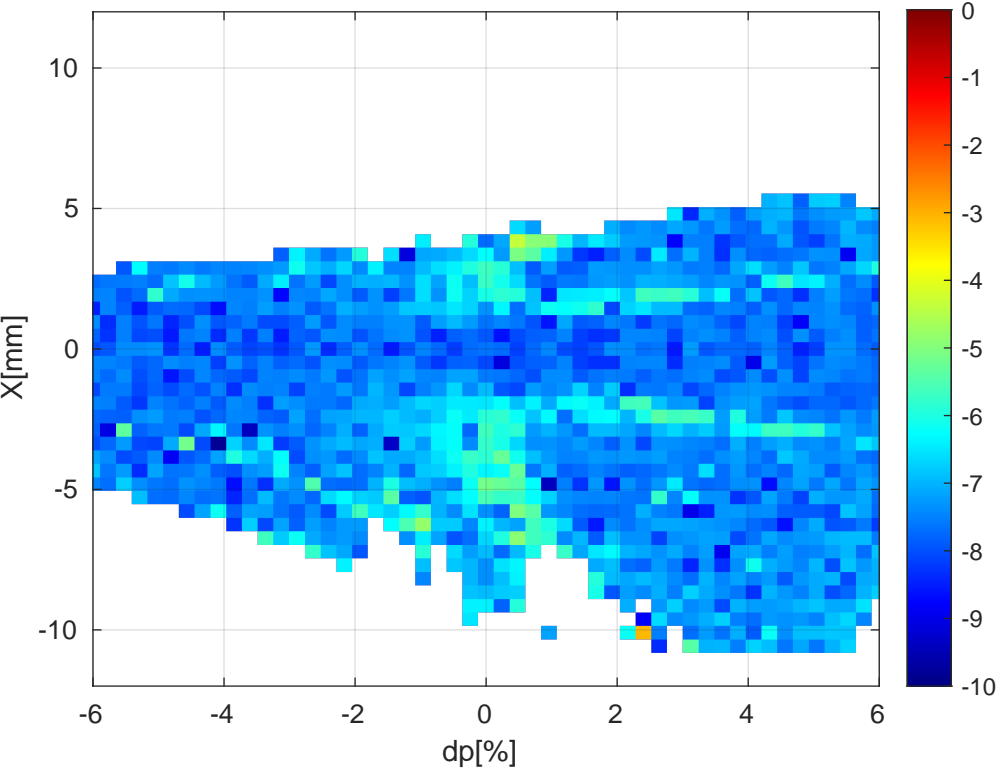


4U-240618-f02-02-01-01 Tune Diffusion Rate:(X,Y),Res order=3

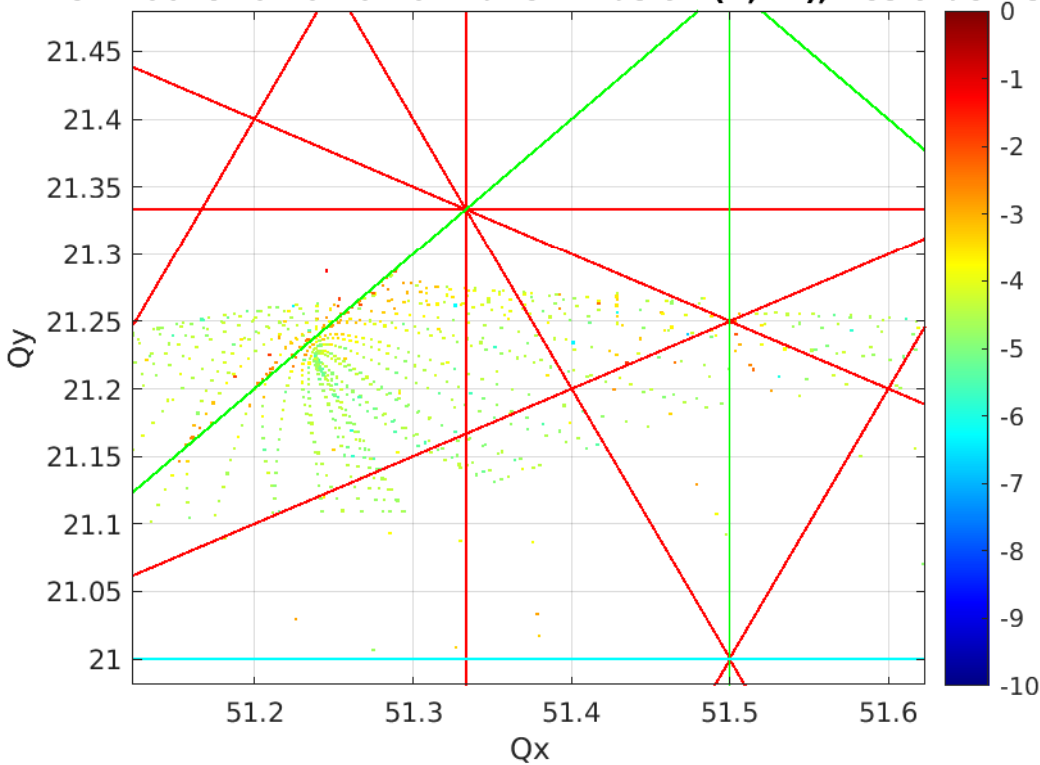




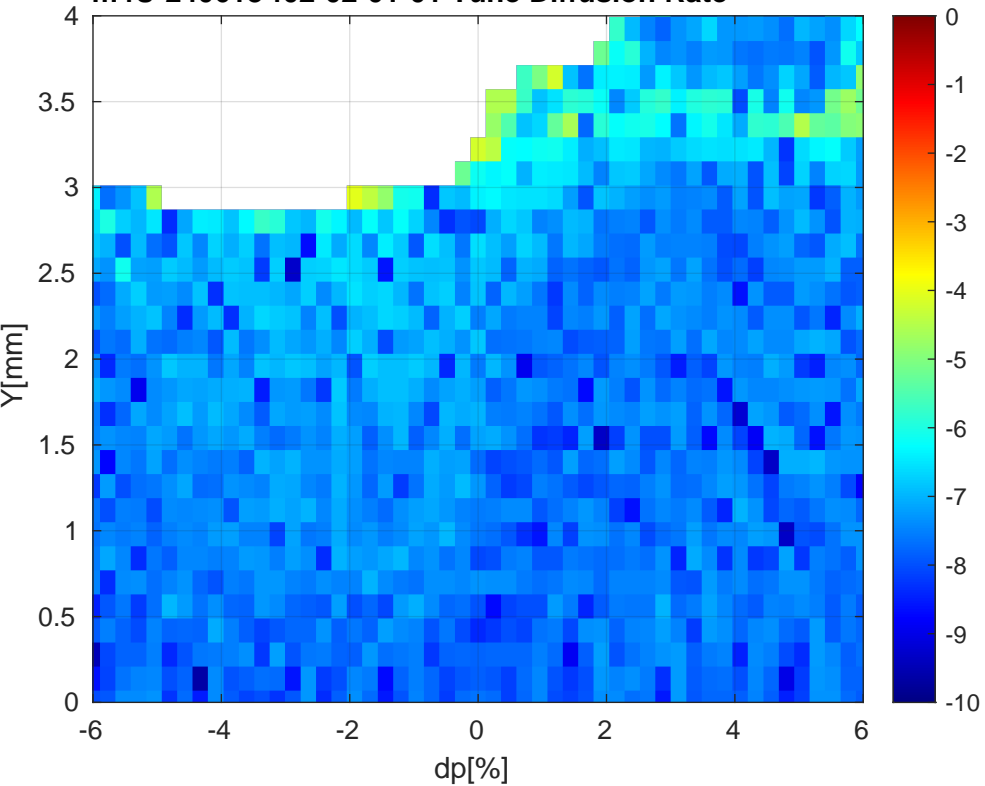
m4U-240618-f02-02-01-01 Tune Diffusion Rate



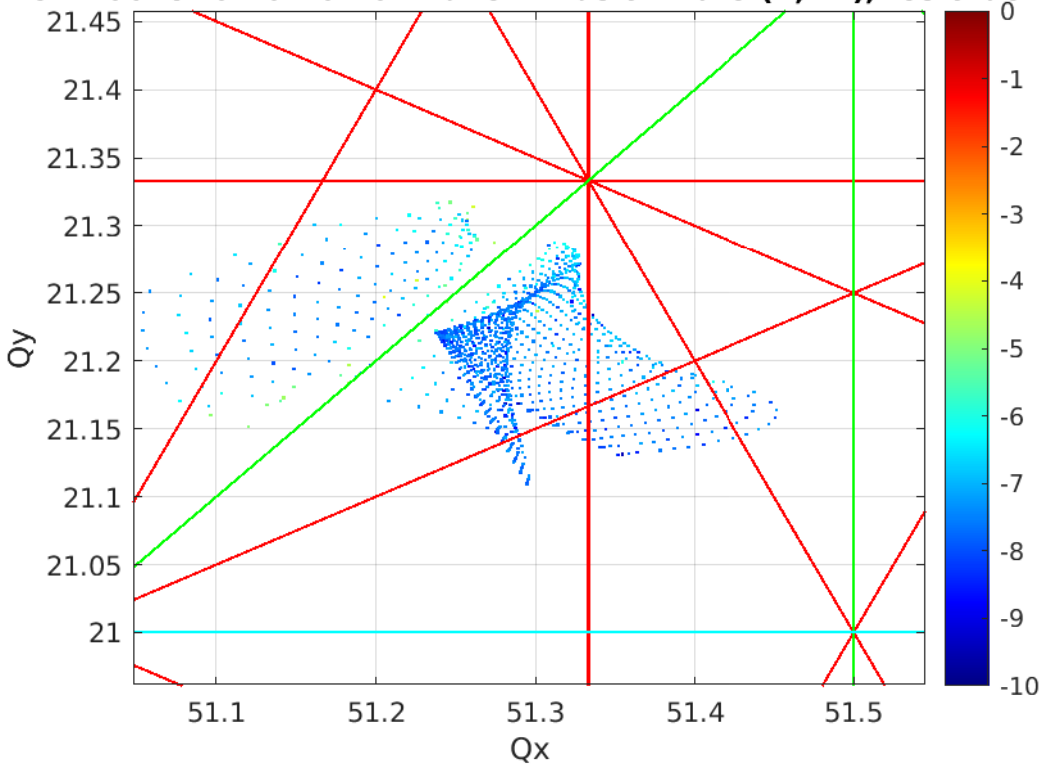
**m4U-240618-f02-02-01-01 Tune Diffusion:(X,DP), Res order=3**



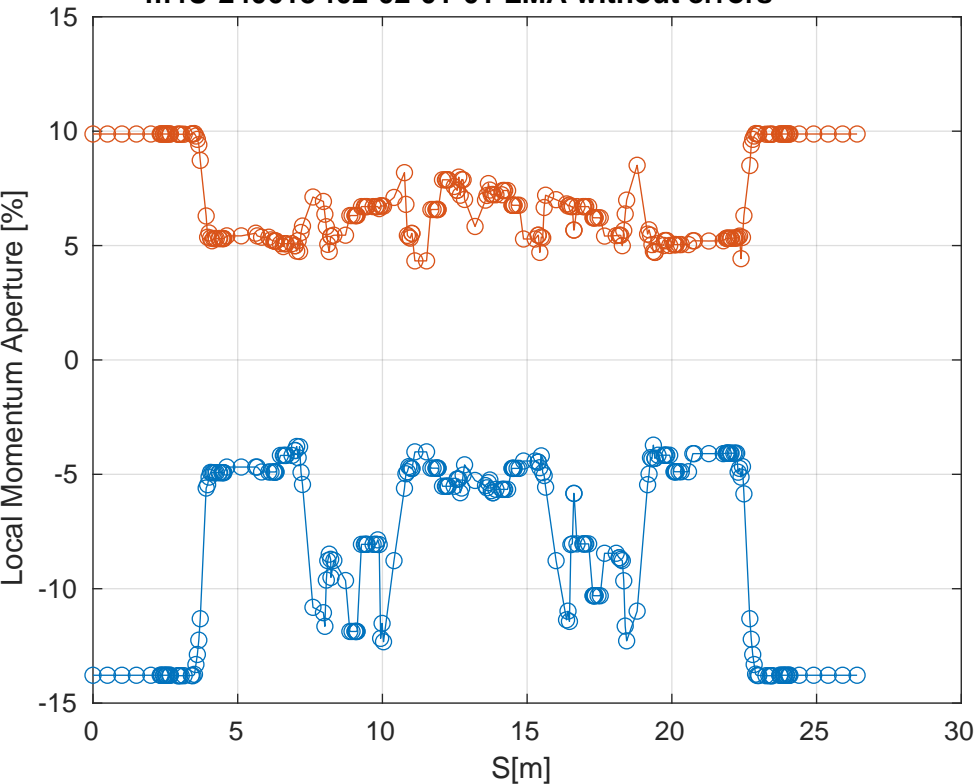
m4U-240618-f02-02-01-01 Tune Diffusion Rate



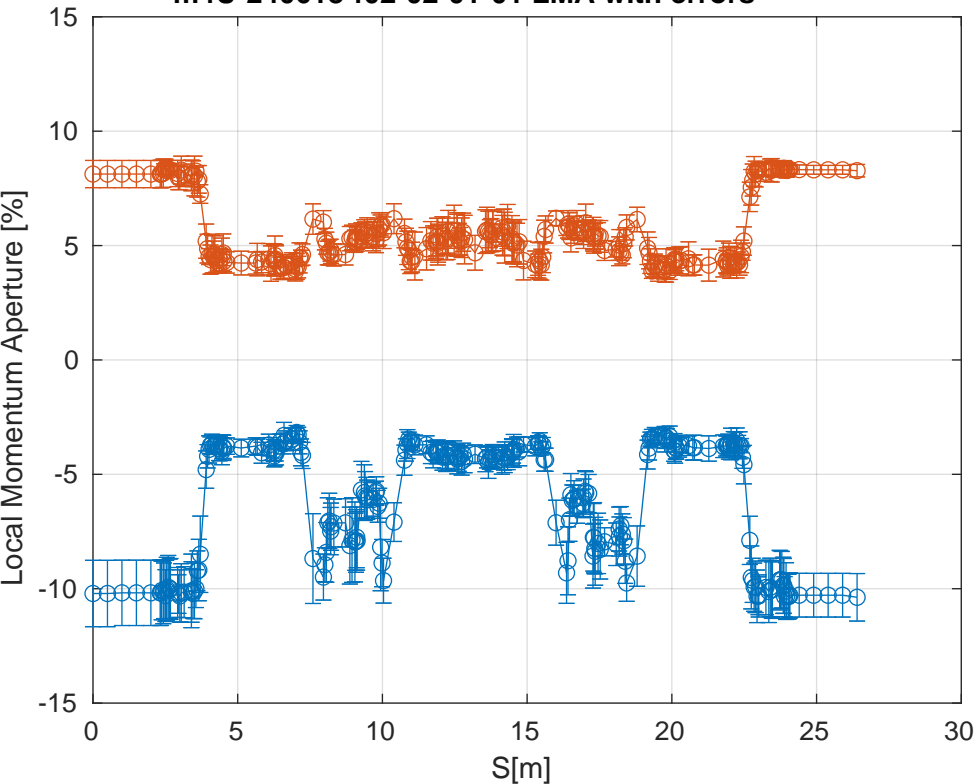
4U-240618-f02-02-01-01 Tune Diffusion Rate:(Y,DP),Res order=3



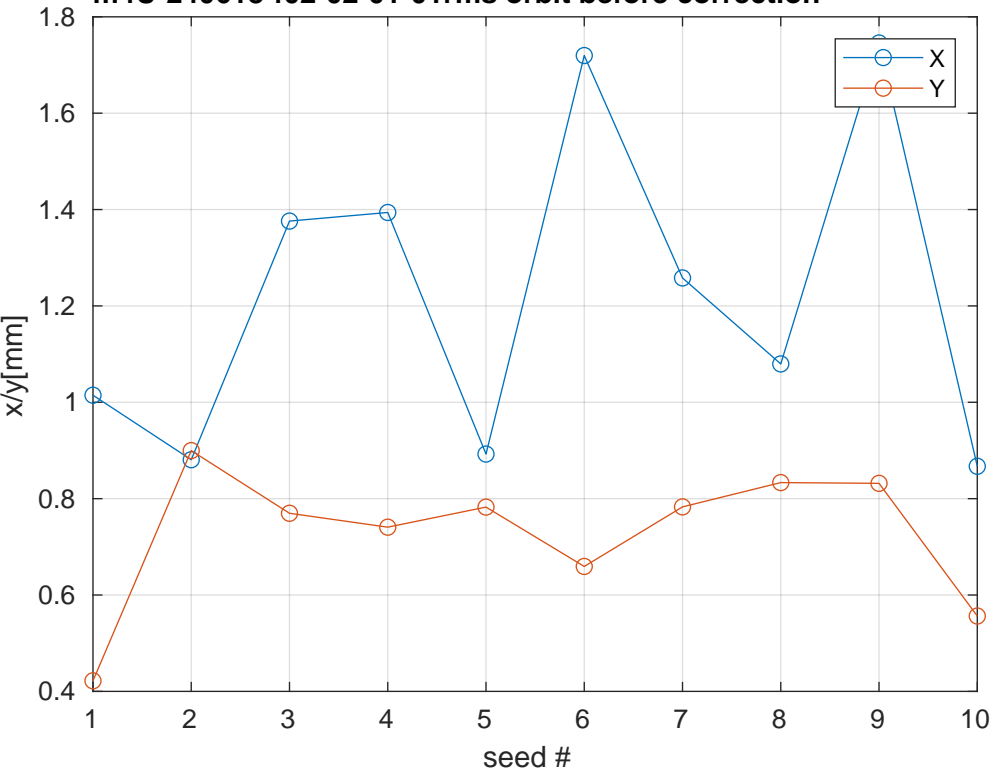
**m4U-240618-f02-02-01-01 LMA without errors**



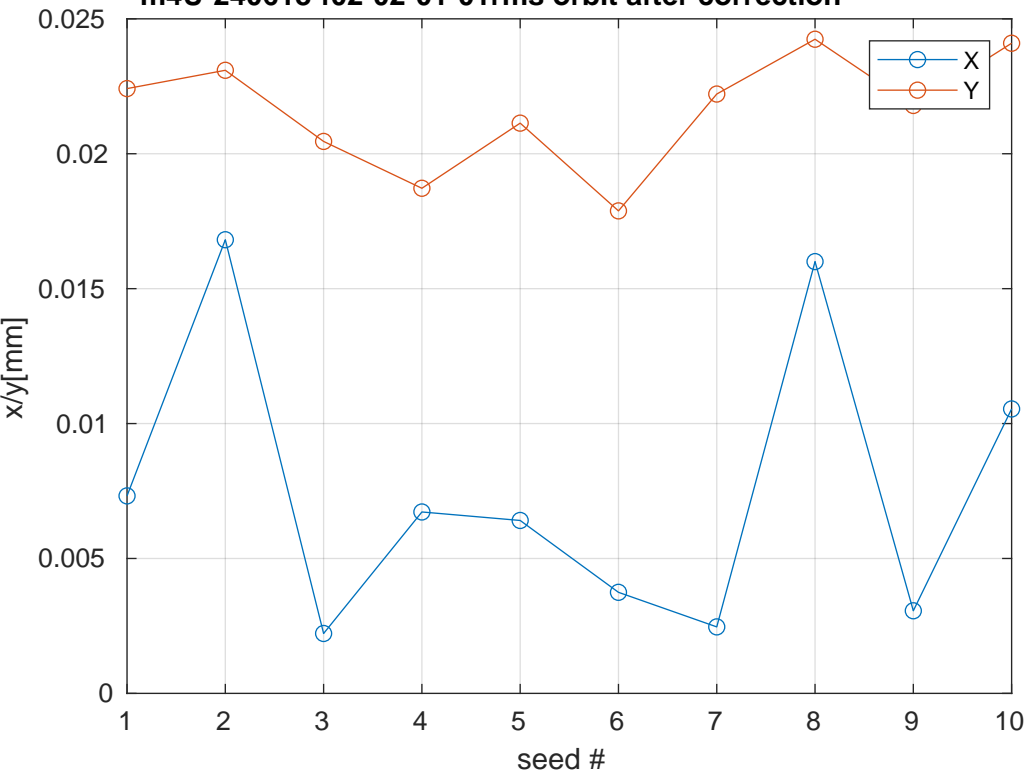
m4U-240618-f02-02-01-01 LMA with errors



m4U-240618-f02-02-01rms orbit before correction

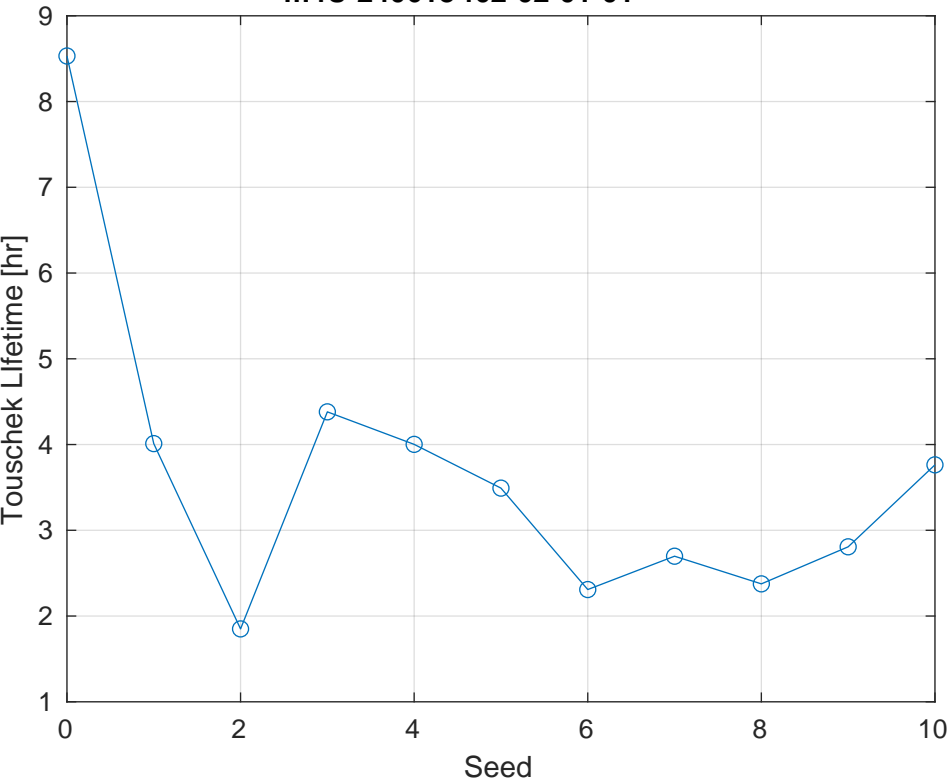


m4U-240618-f02-02-01-01rms orbit after correction

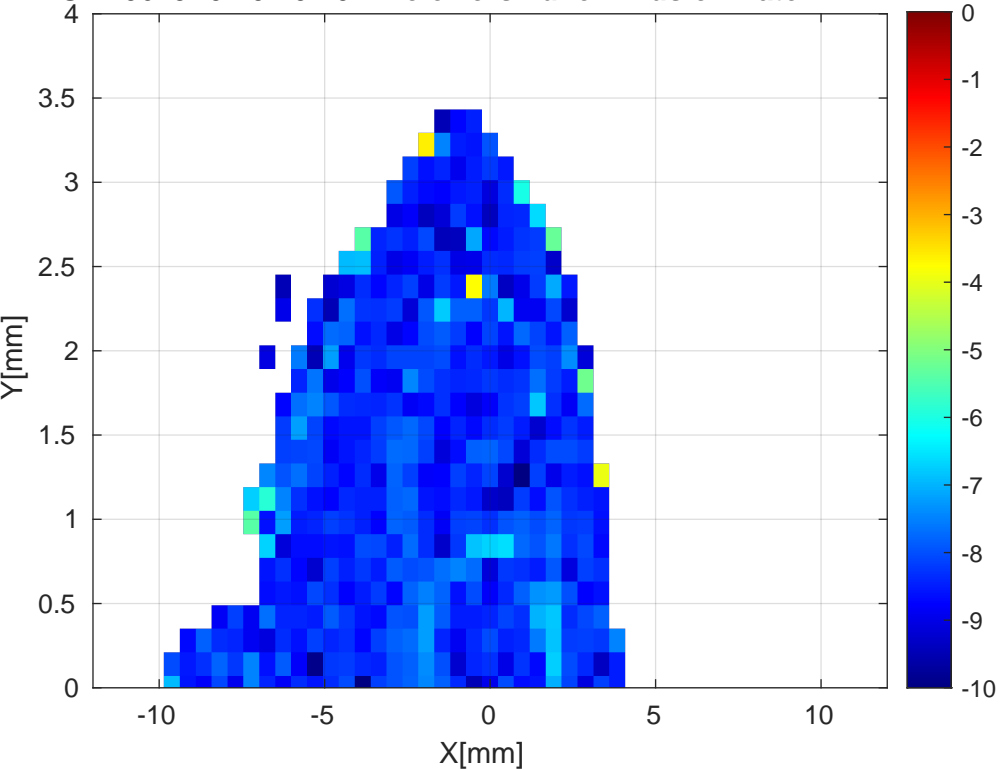




m4U-240618-f02-02-01-01



m4U-240618-f02-02-01-01: no errors Tune Diffusion Rate



m4U-240618-f02-02-01-01: with errors Tune Diffusion Rate

