

\*\*\*\*\* Summary for 'm4U-240808-f01-04-01-01' \*\*\*\*\*

08-Aug-2024 08:25:56

Energy: ### 3.0 GeV

Circumference: ## 528.0 m

Full tunes H/V: ## 58.29 / 18.13

Momentum Compaction Factor: # 5.98e-05

Chromaticity H: ##+1.00

Chromaticity V: ##+1.00

Radiation Loss: ## 477.1 keV

Natural Energy Spread: # 0.09 %

Natural Emittance: ## 52.0 pmrad

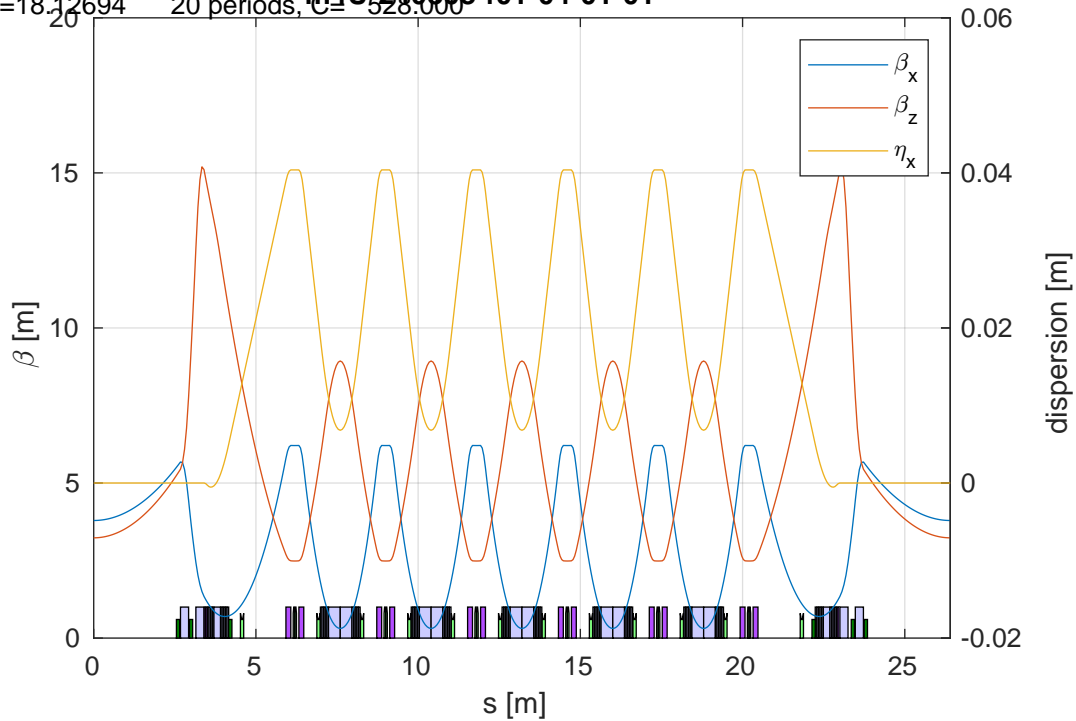
RF Voltage: # 1.8 MV

Achromat natural chromaticities: H/V## -4.81 / -2.95

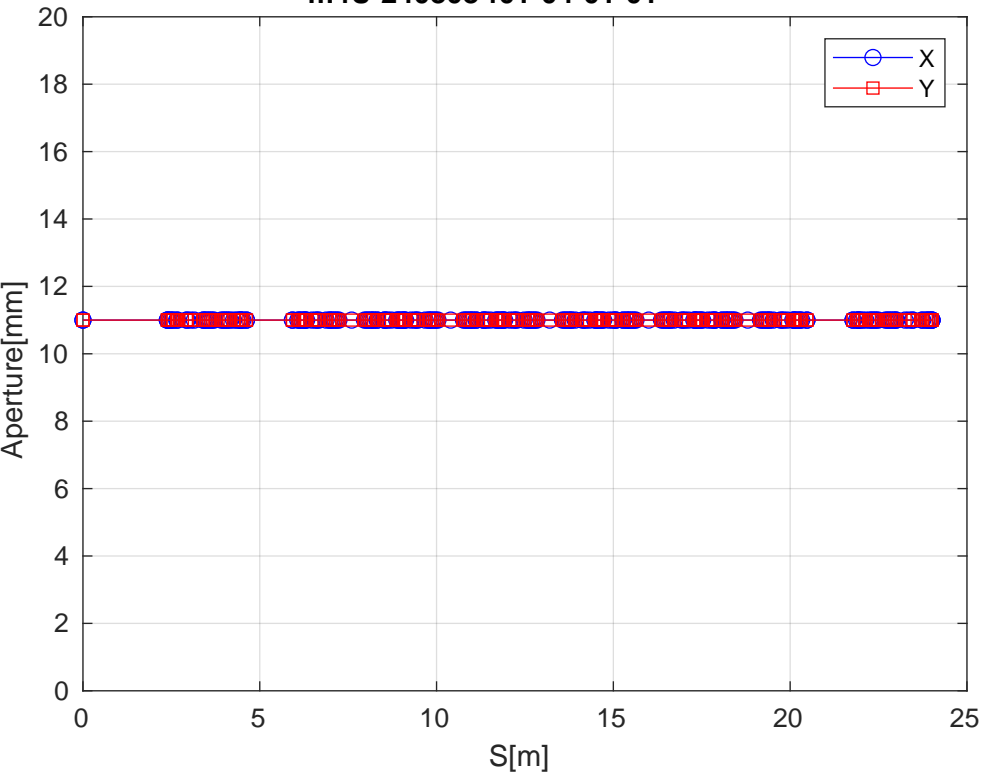
Achromat tunes H/V: ## 2.91 / 0.91

$\nu_x = 58.29128$  $\delta p/p = 0.000$  $\nu_z = 18.12694$ 20 periods,  $C = 528.000$ 

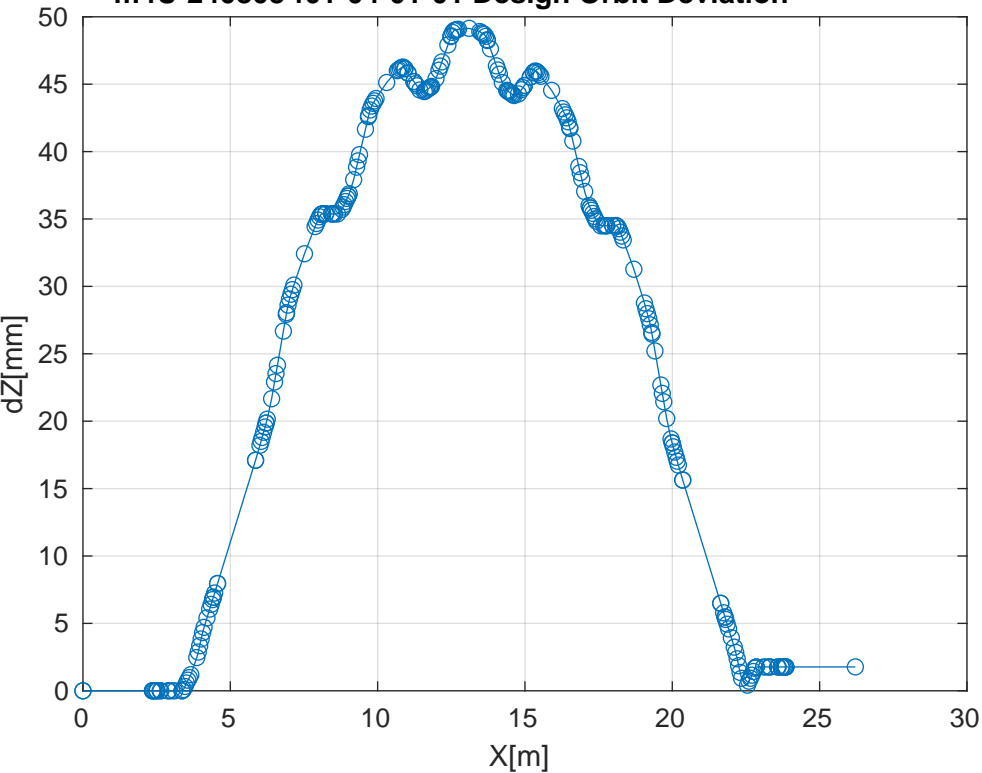
m4U-240808-f01-04-01-01



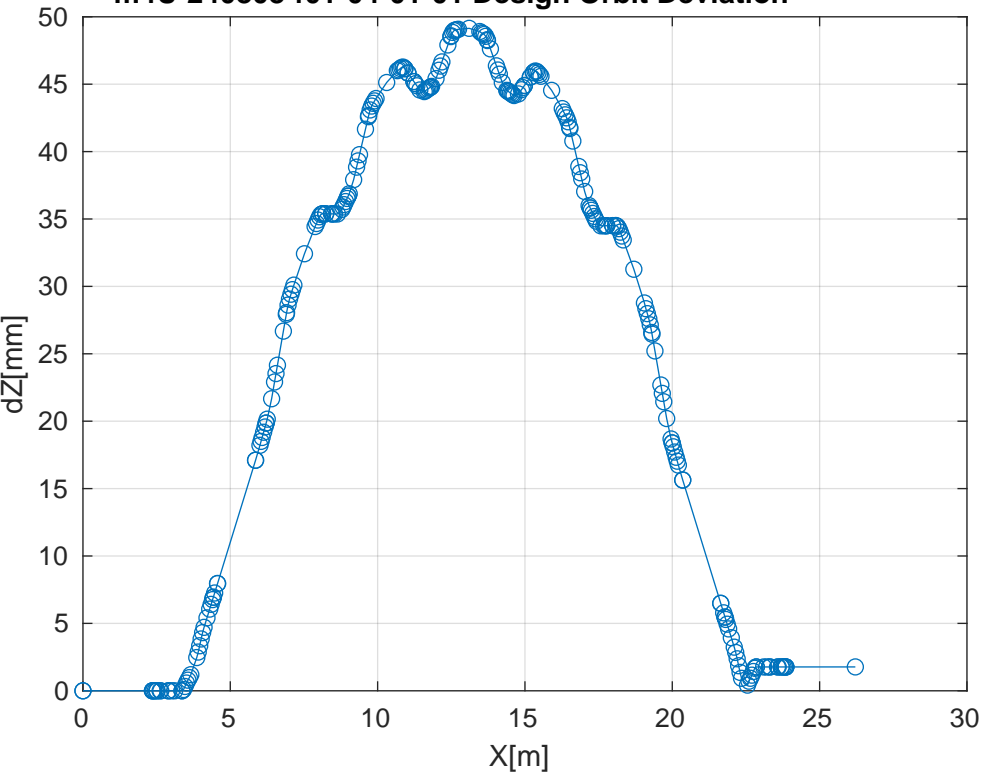
m4U-240808-f01-04-01-01



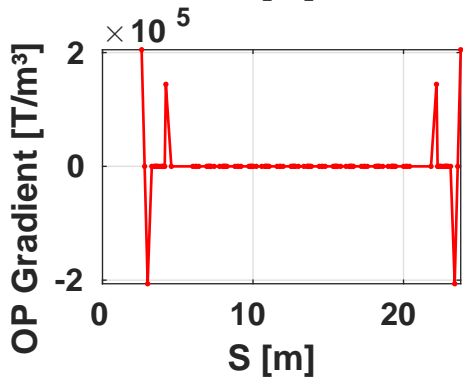
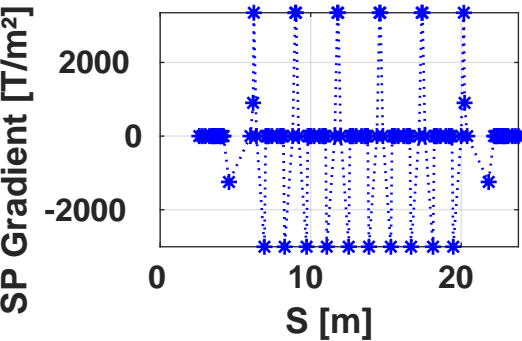
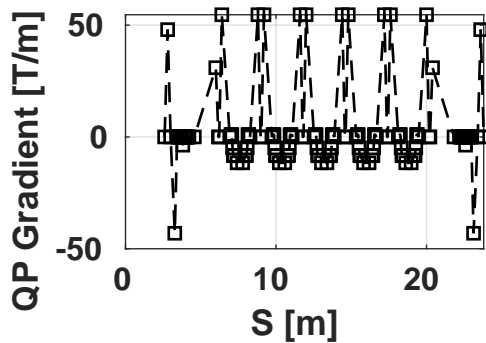
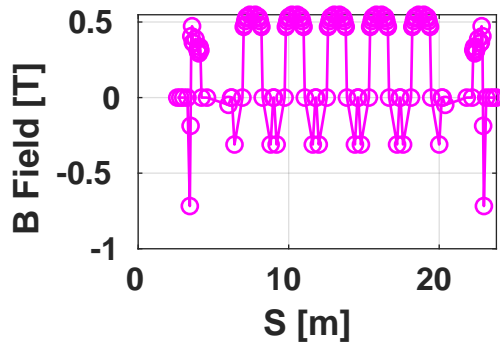
m4U-240808-f01-04-01-01 Design Orbit Deviation



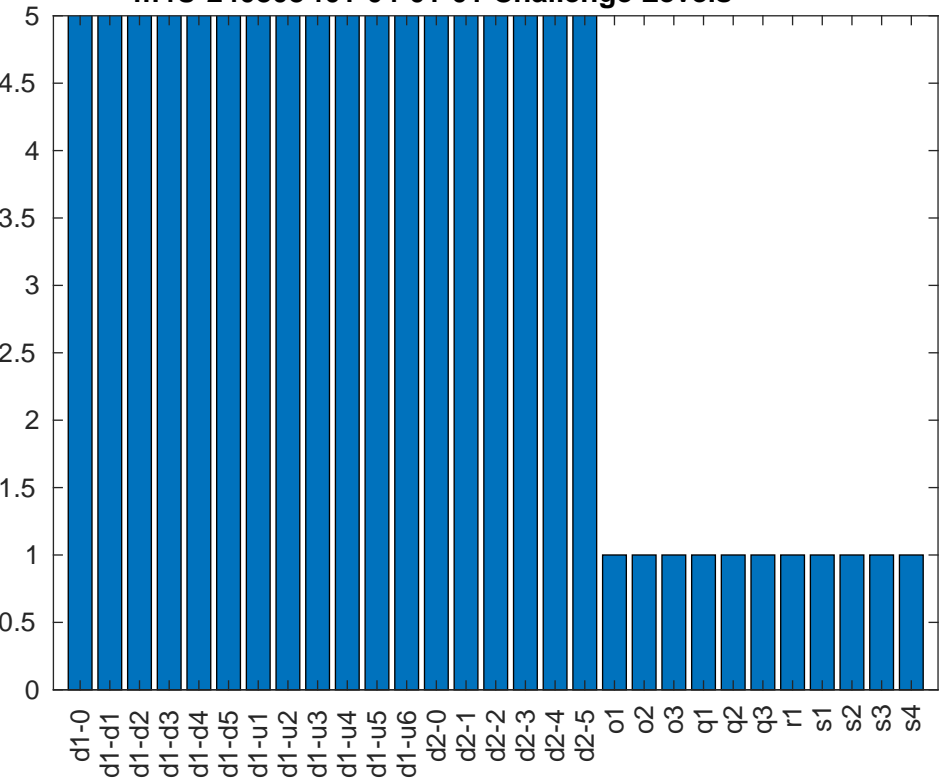
m4U-240808-f01-04-01-01 Design Orbit Deviation



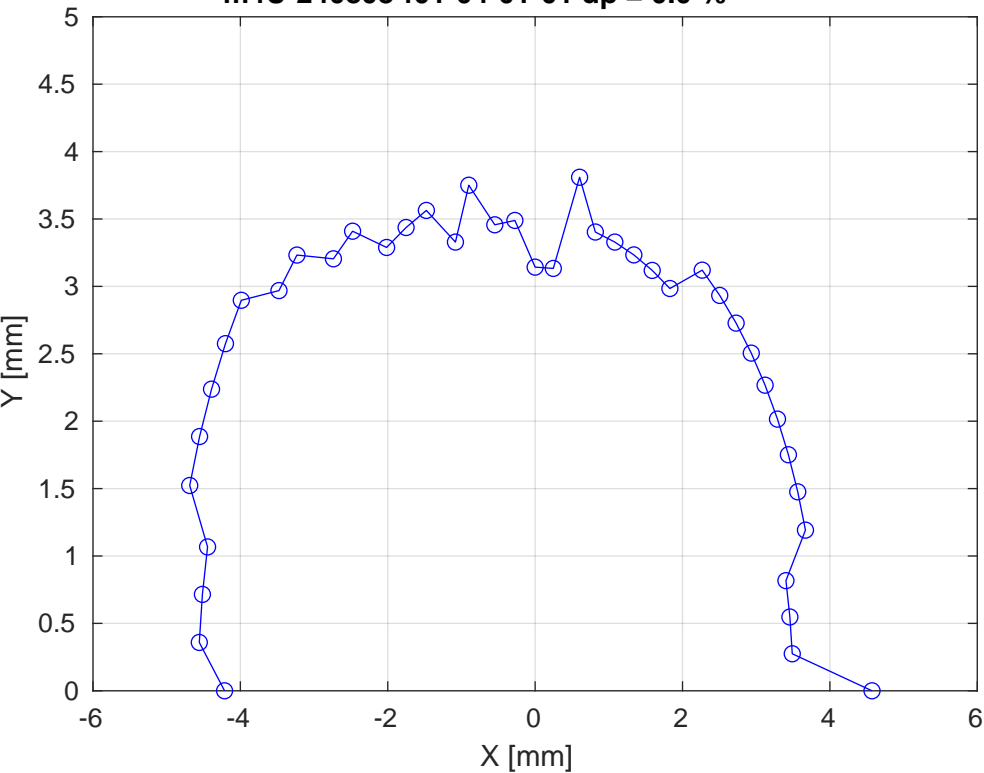
m4U<sub>2</sub>40808<sub>f</sub>01<sub>0</sub>4<sub>0</sub>1<sub>0</sub>1



m4U-240808-f01-04-01-01 Challenge Levels

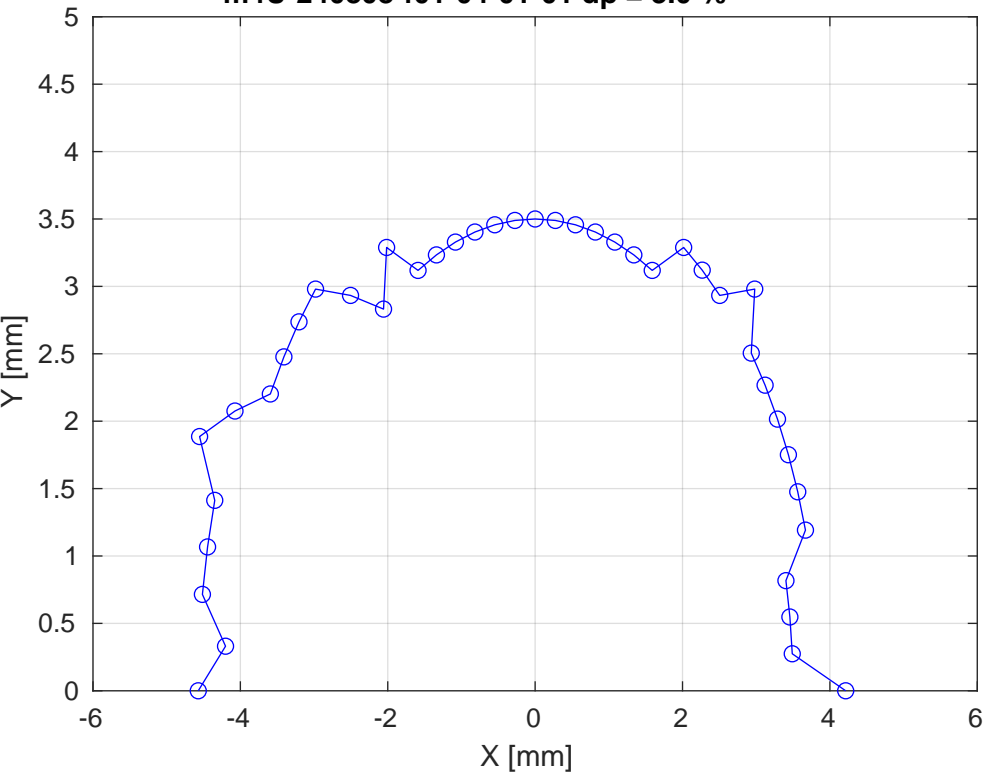


m4U-240808-f01-04-01-01 dp = 0.0 %

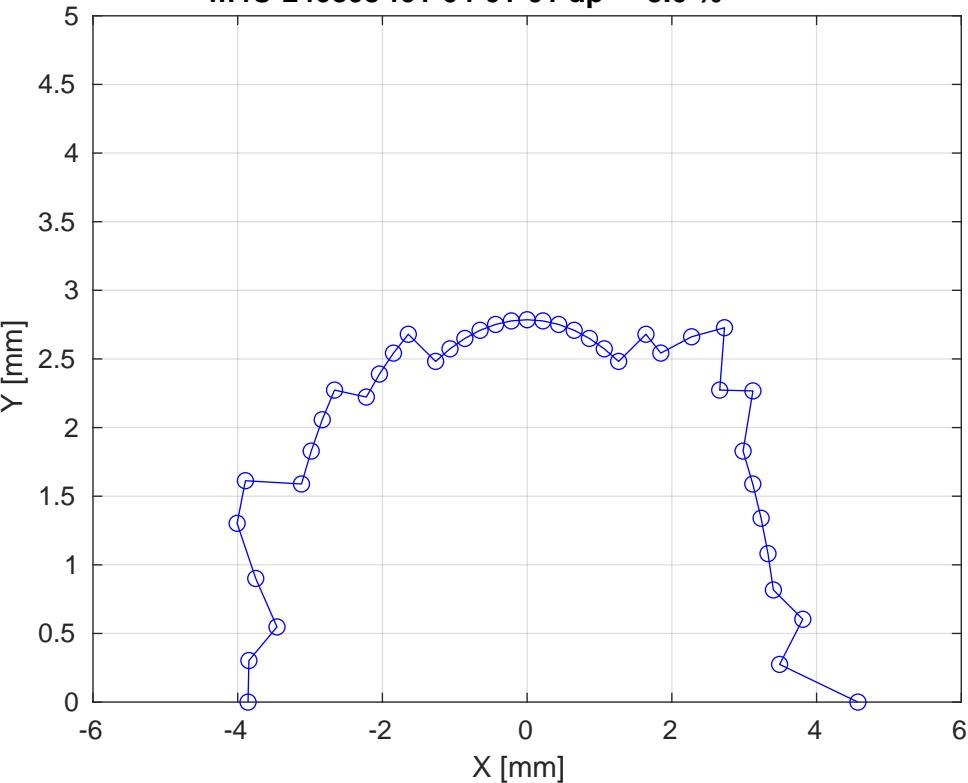




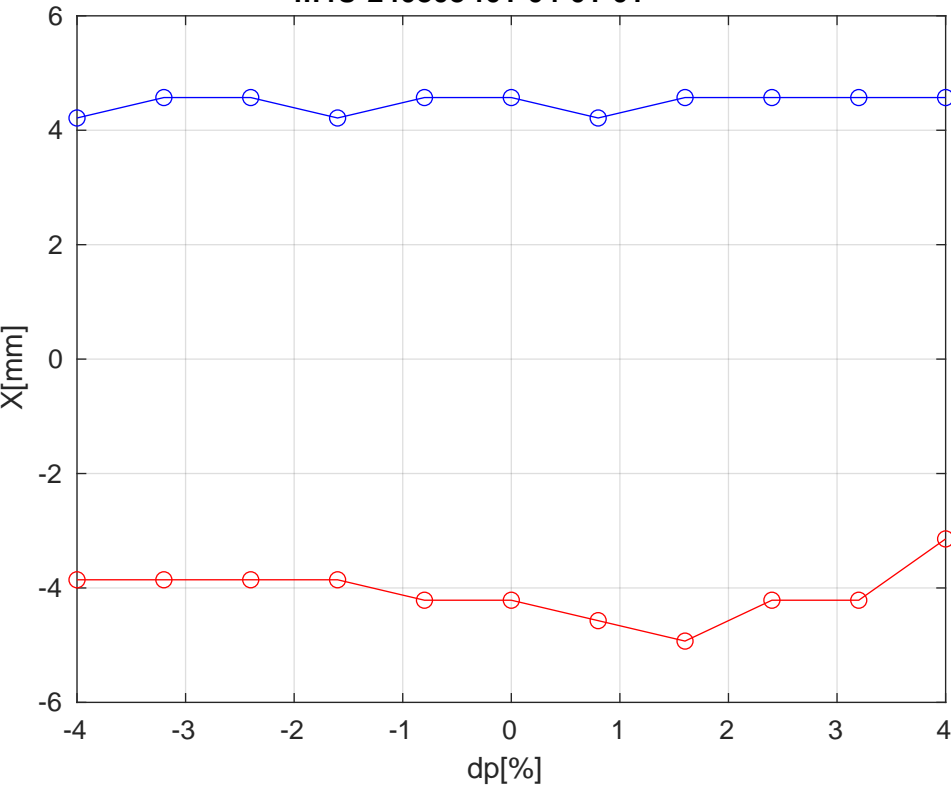
m4U-240808-f01-04-01-01 dp = 3.0 %



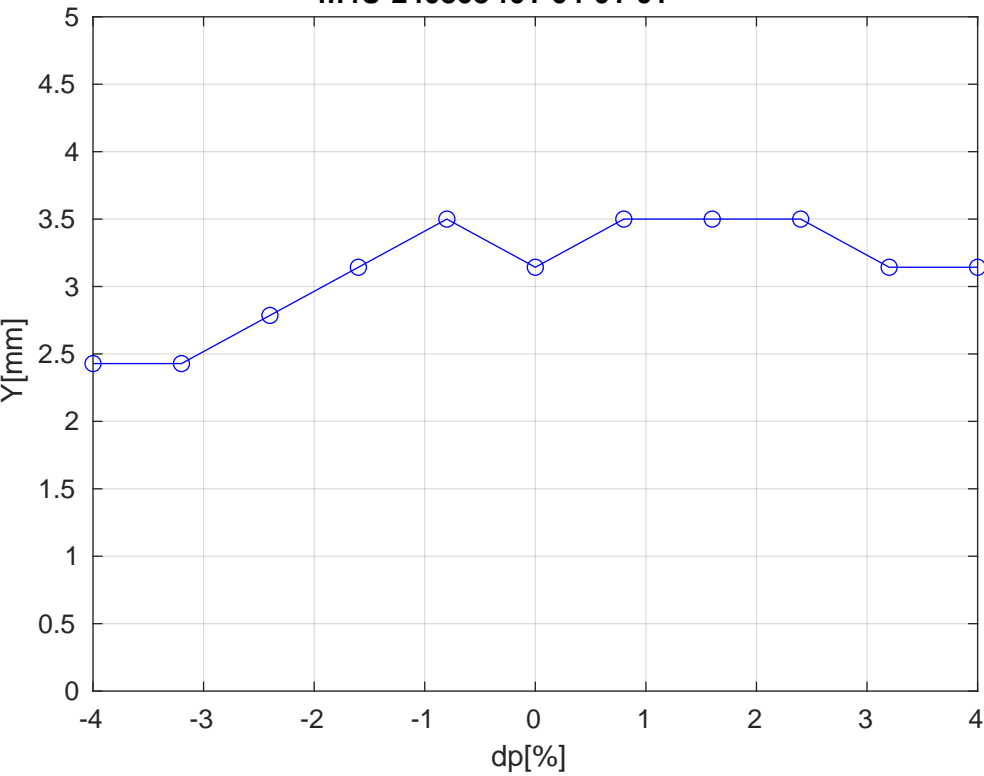
m4U-240808-f01-04-01-01 dp = -3.0 %



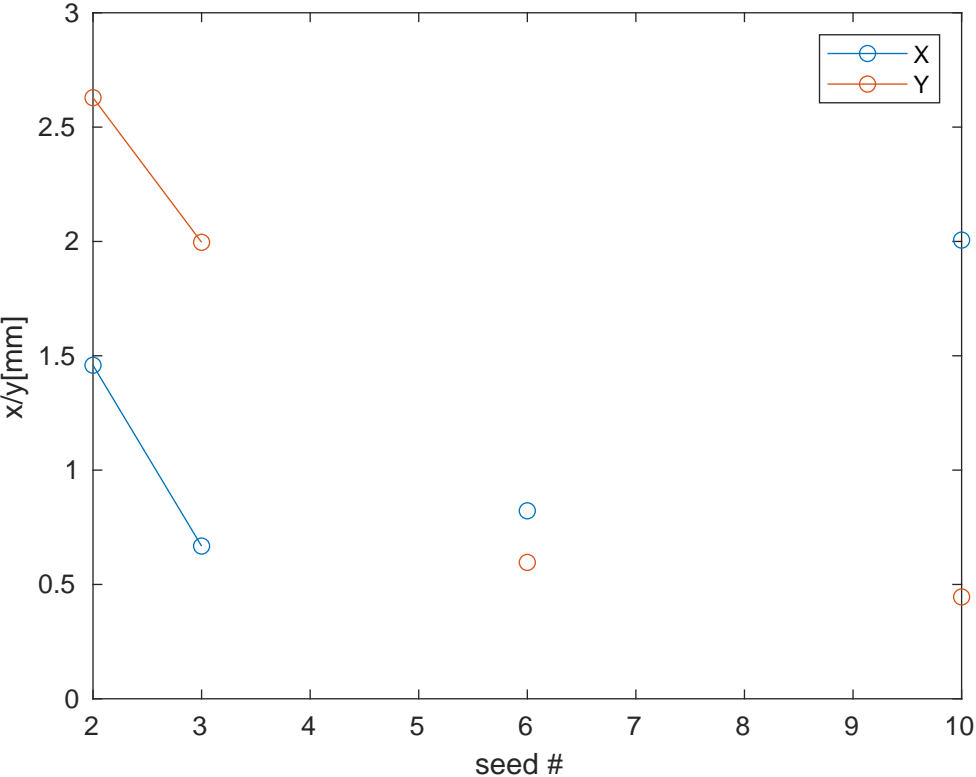
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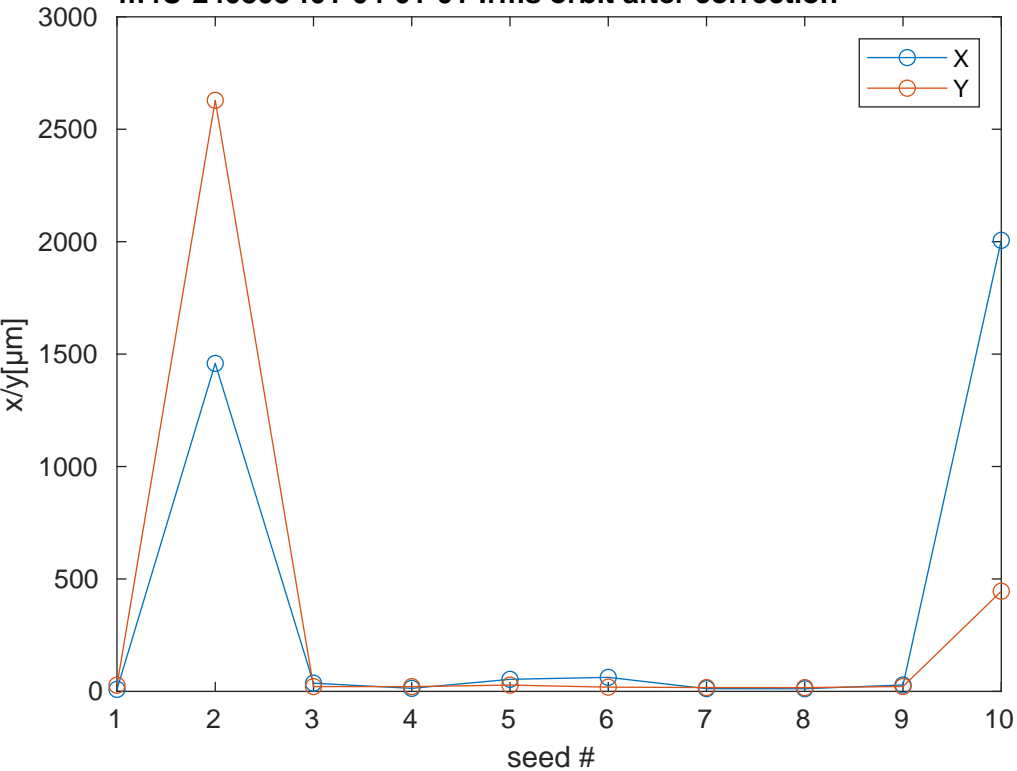
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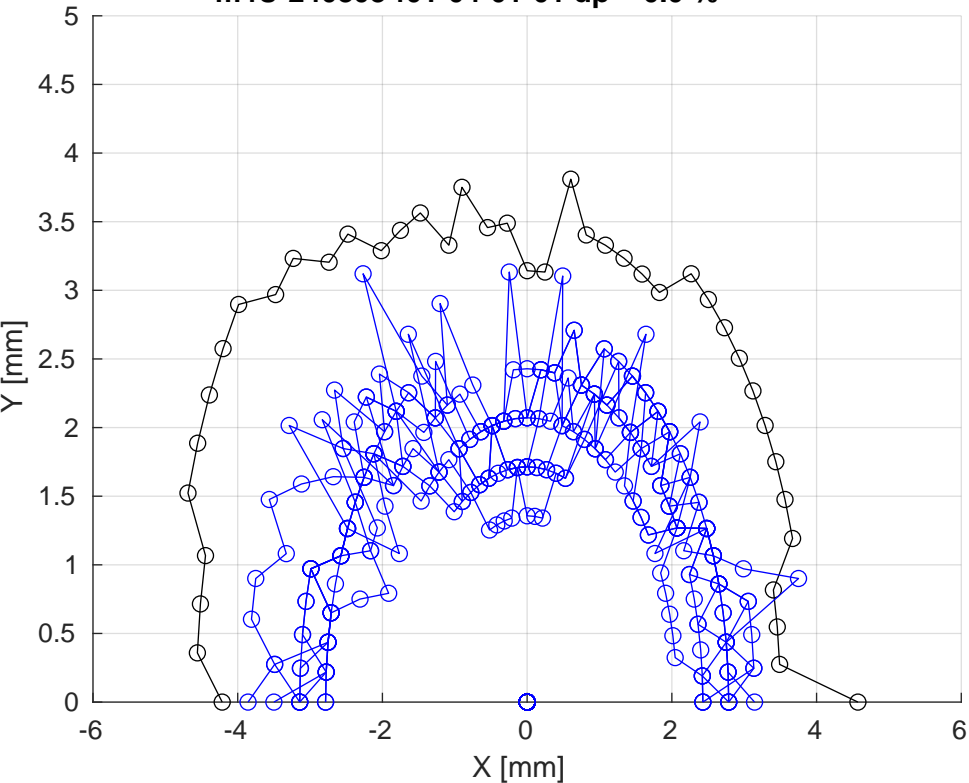
m4U-240808-f01-04-01-01 :rms orbit before correction



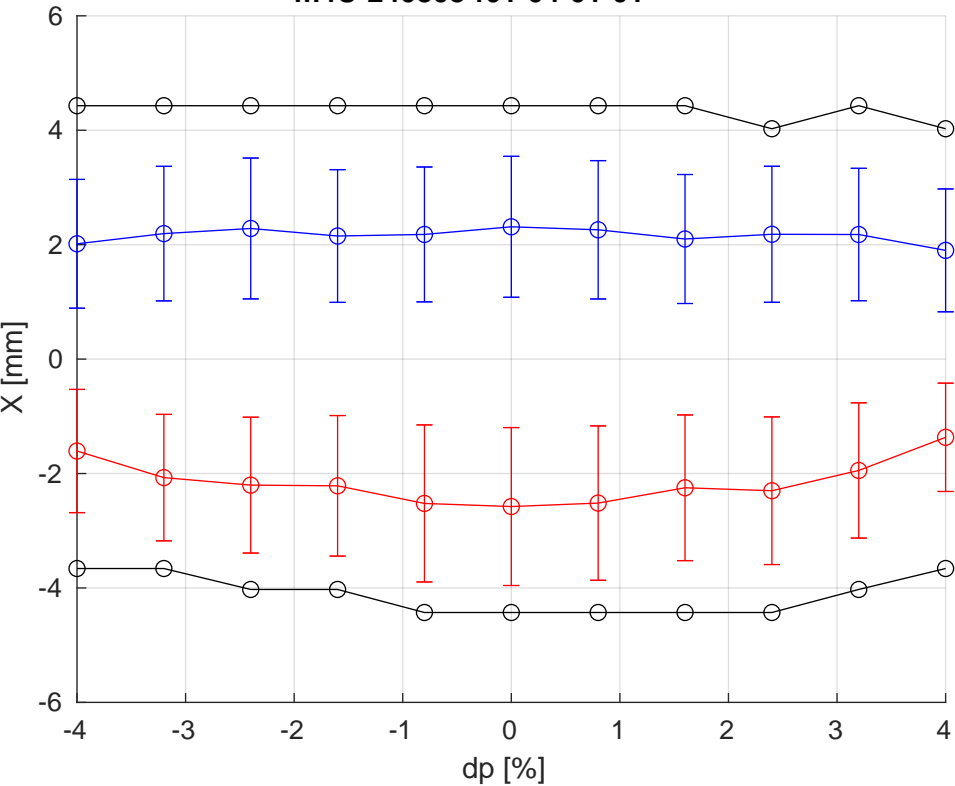
m4U-240808-f01-04-01-01 :rms orbit after correction



m4U-240808-f01-04-01-01 dp = 0.0 %

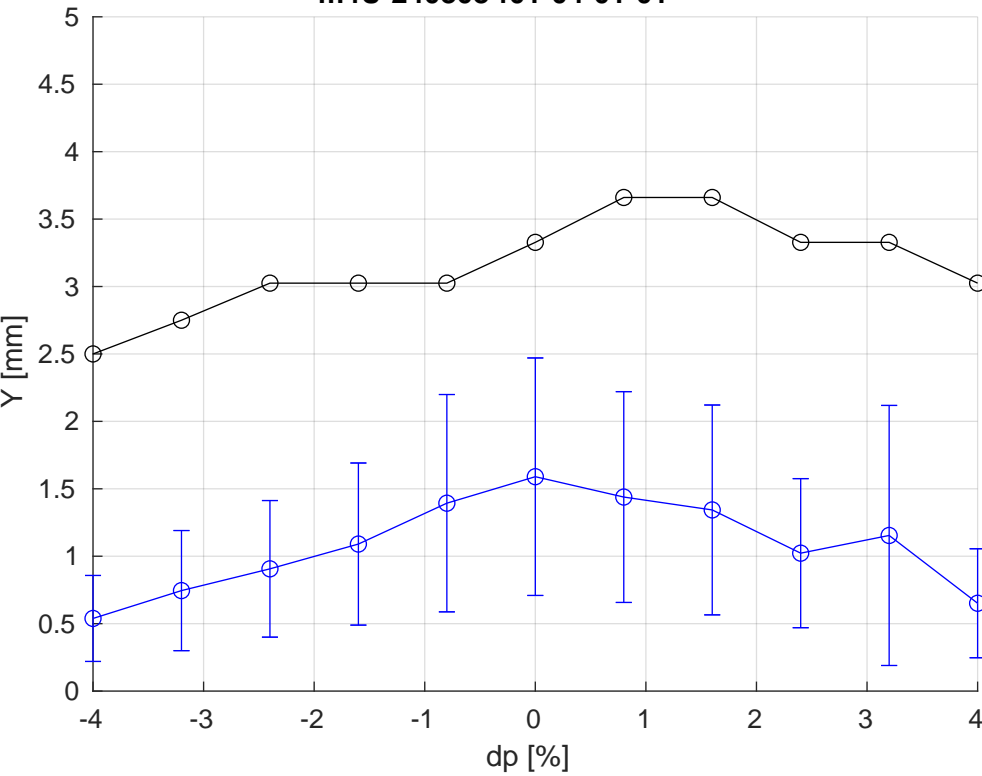


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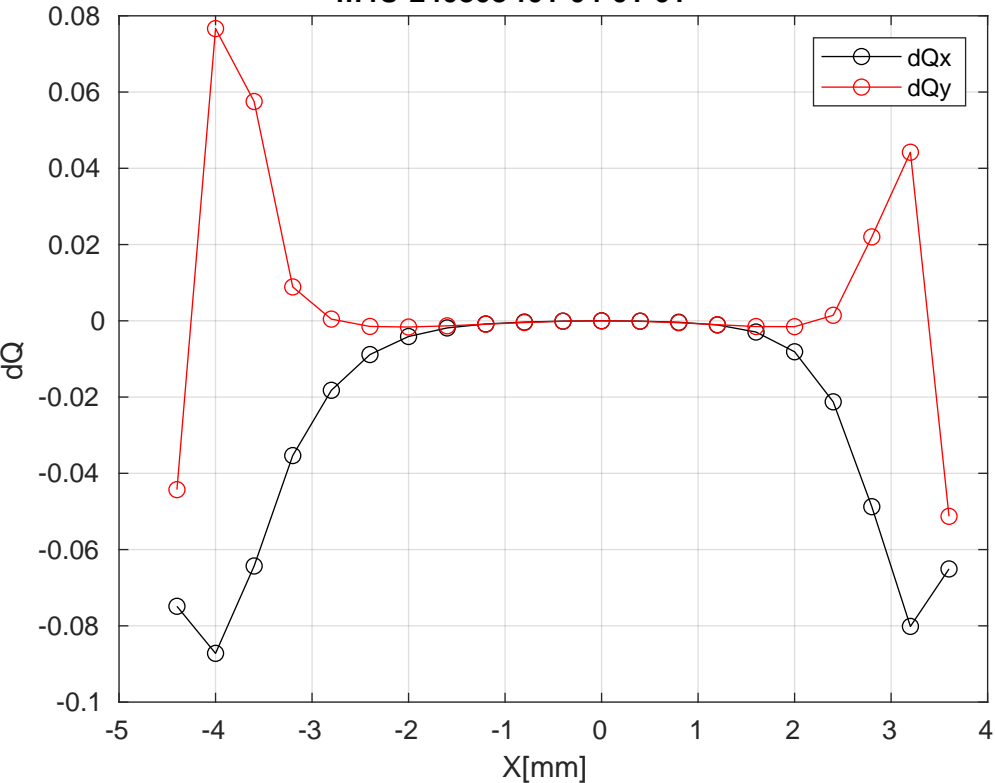




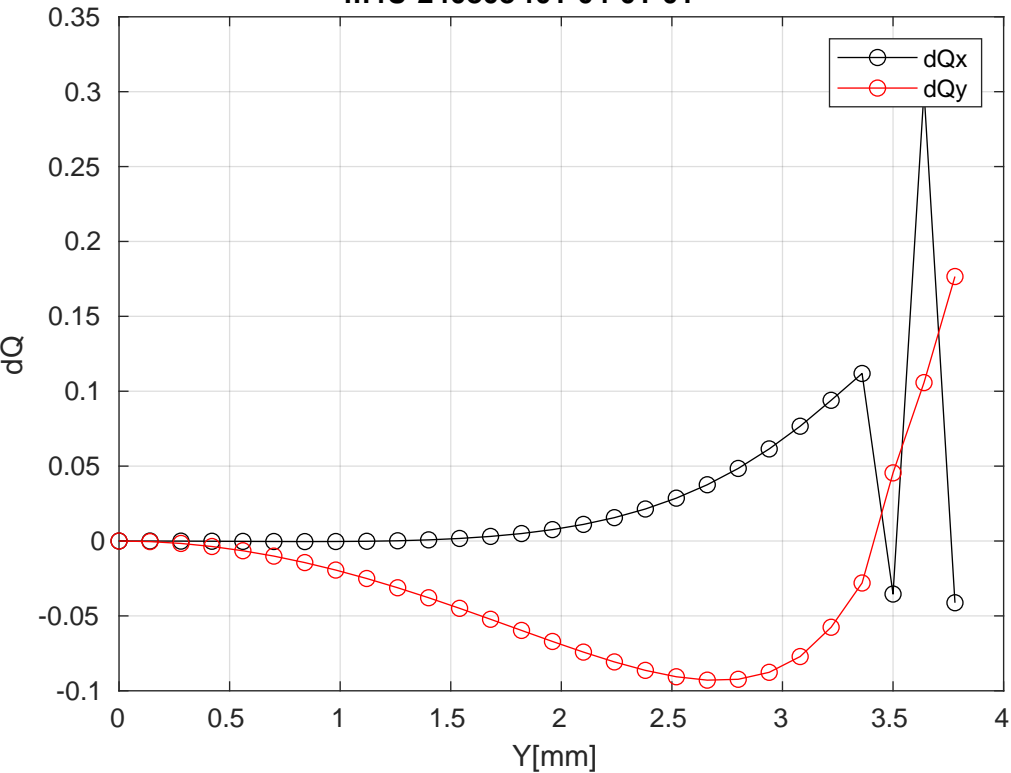
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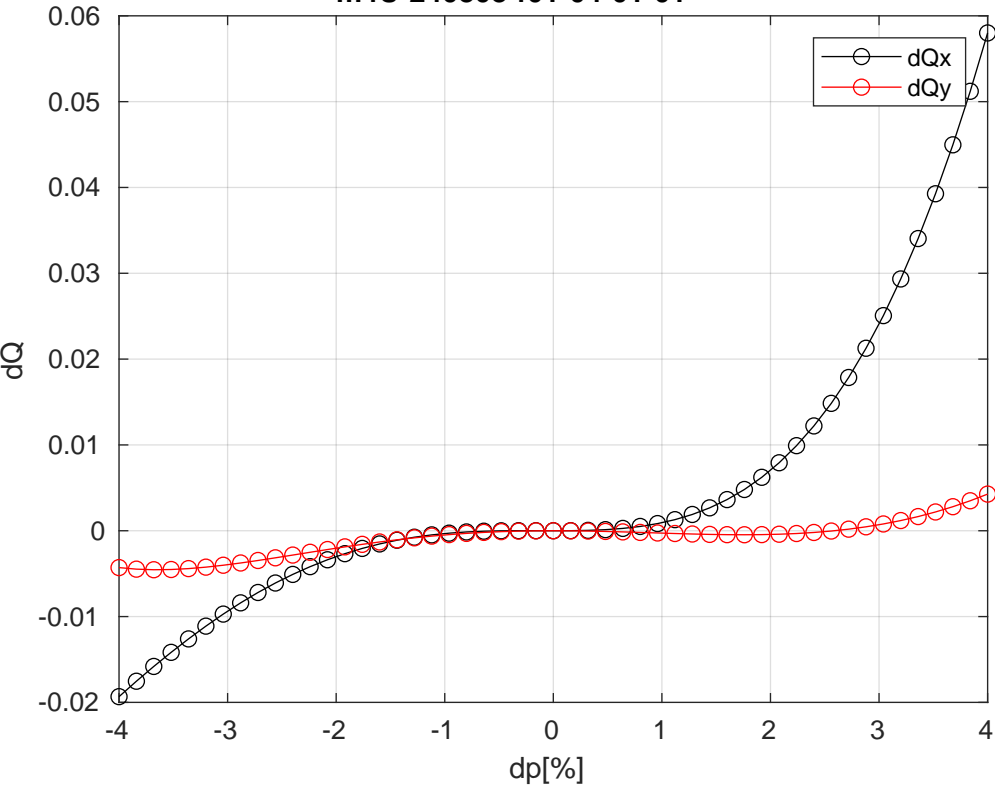
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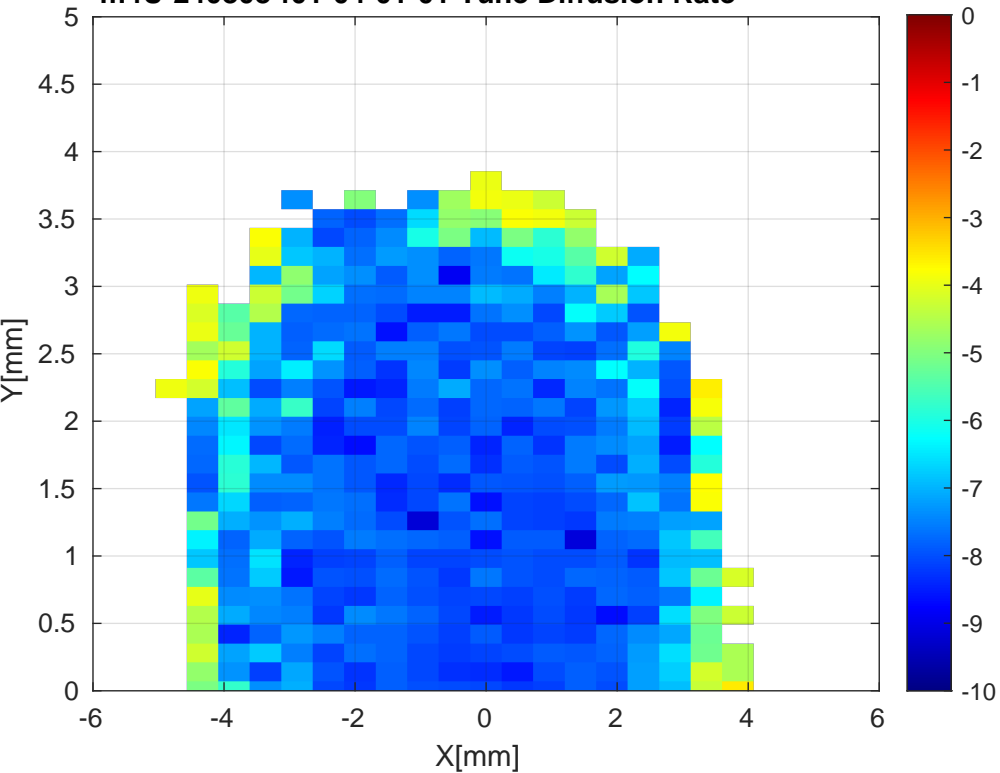
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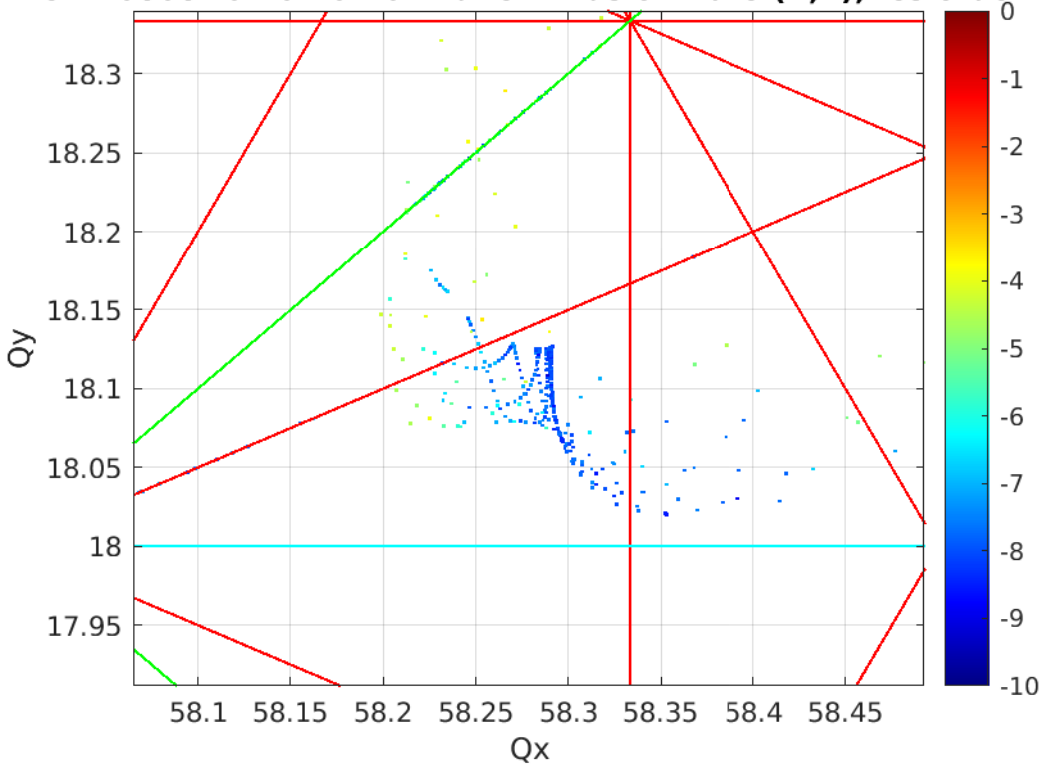
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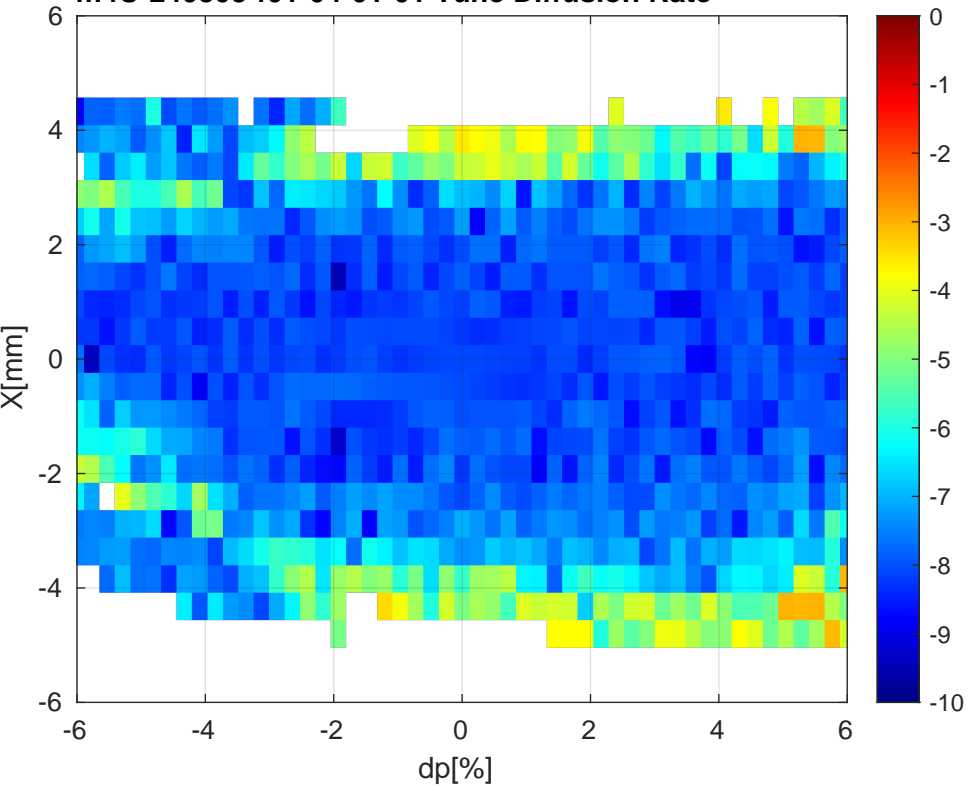
m4U-240808-f01-04-01-01 Tune Diffusion Rate



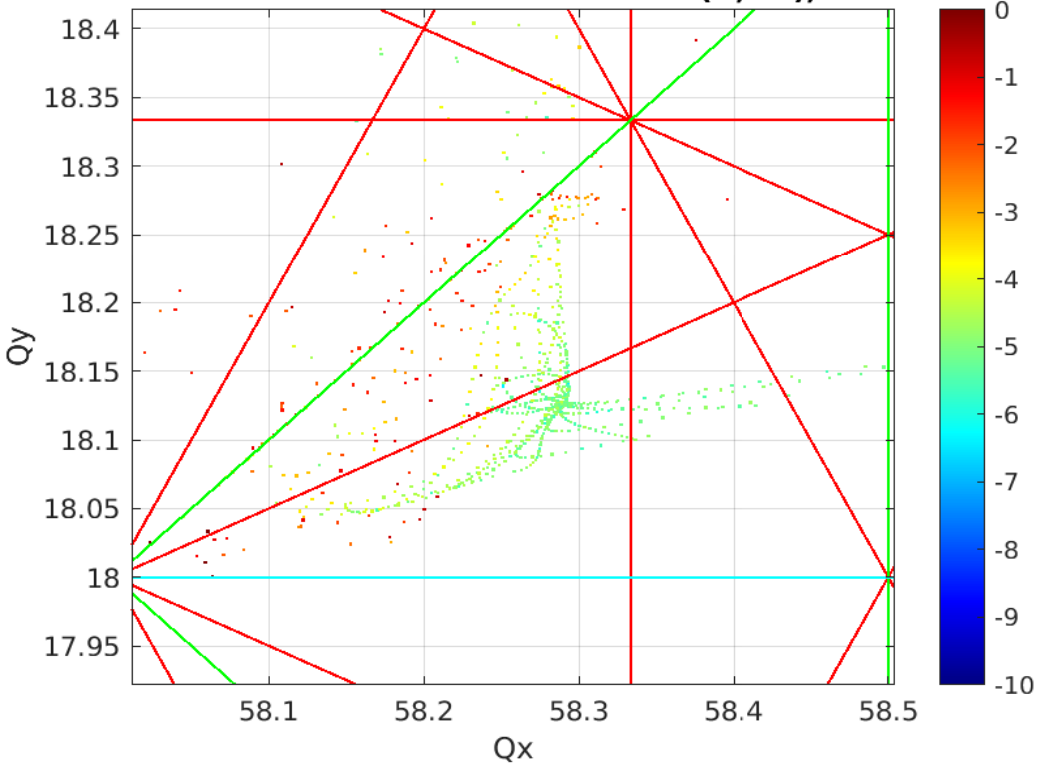
m4U-240808-f01-04-01-01 Tune Diffusion Rate:(X,Y),Res order=3



m4U-240808-f01-04-01-01 Tune Diffusion Rate

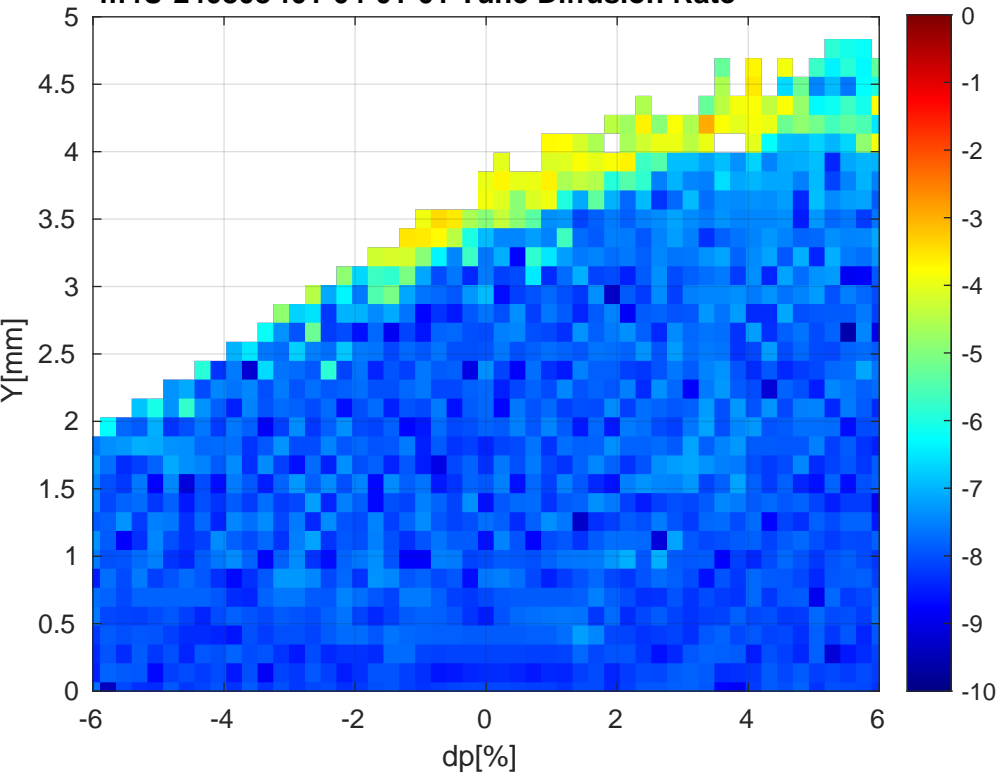


m4U-240808-f01-04-01-01 Tune Diffusion:(X,DP), Res order=3

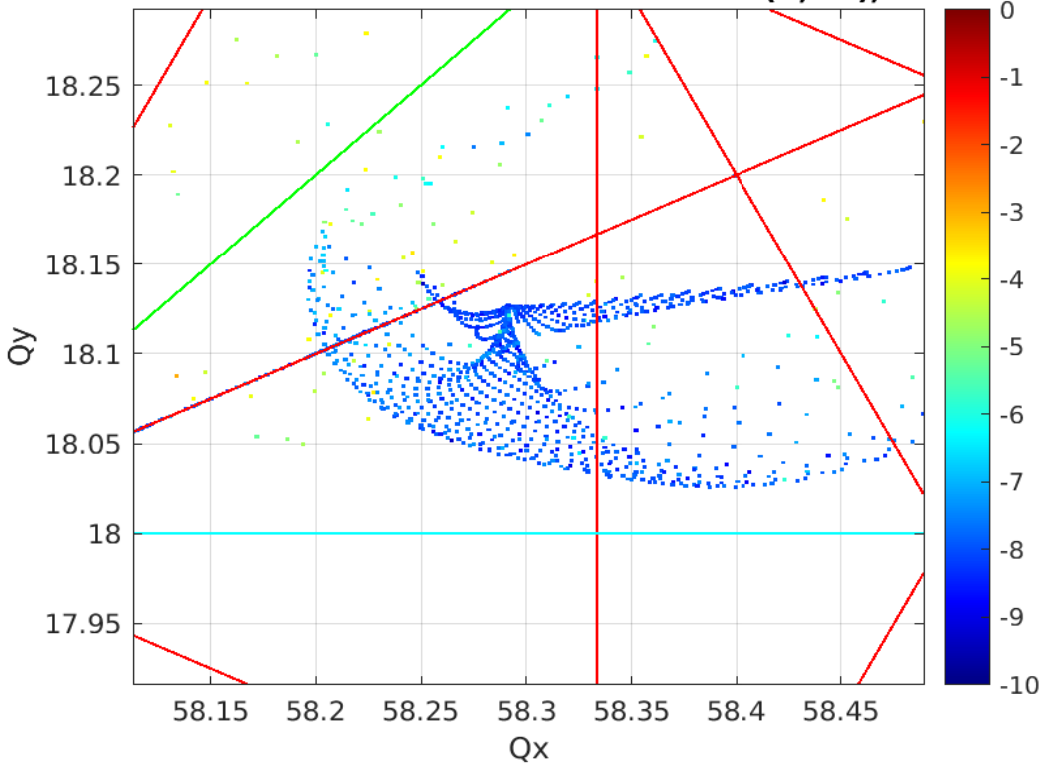




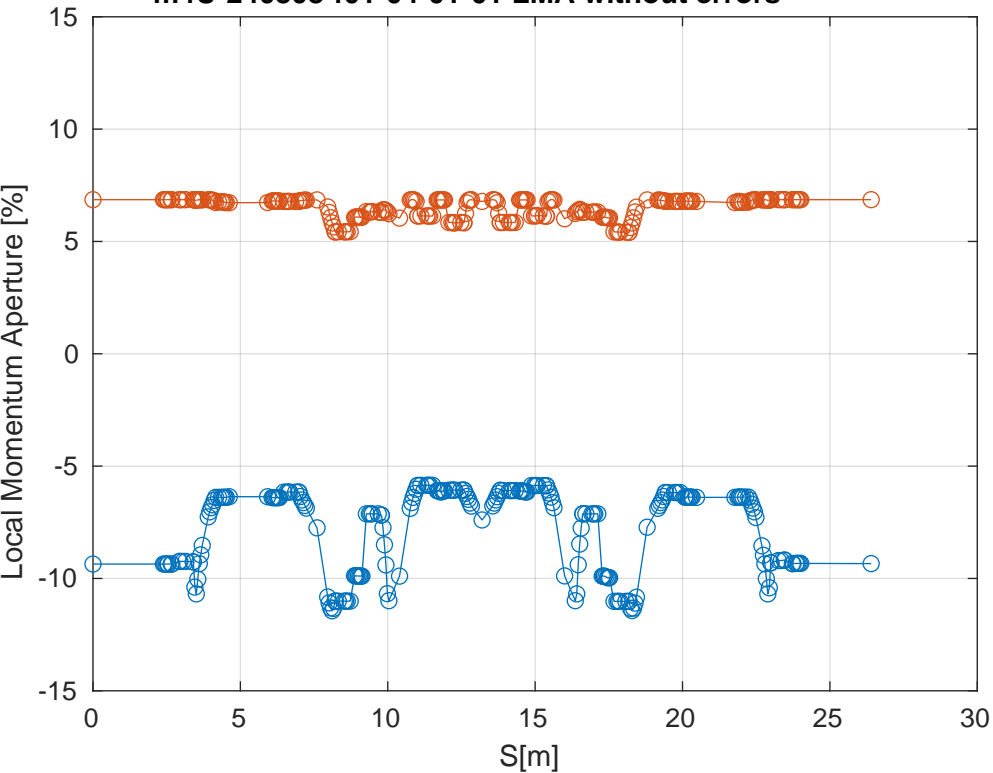
m4U-240808-f01-04-01-01 Tune Diffusion Rate



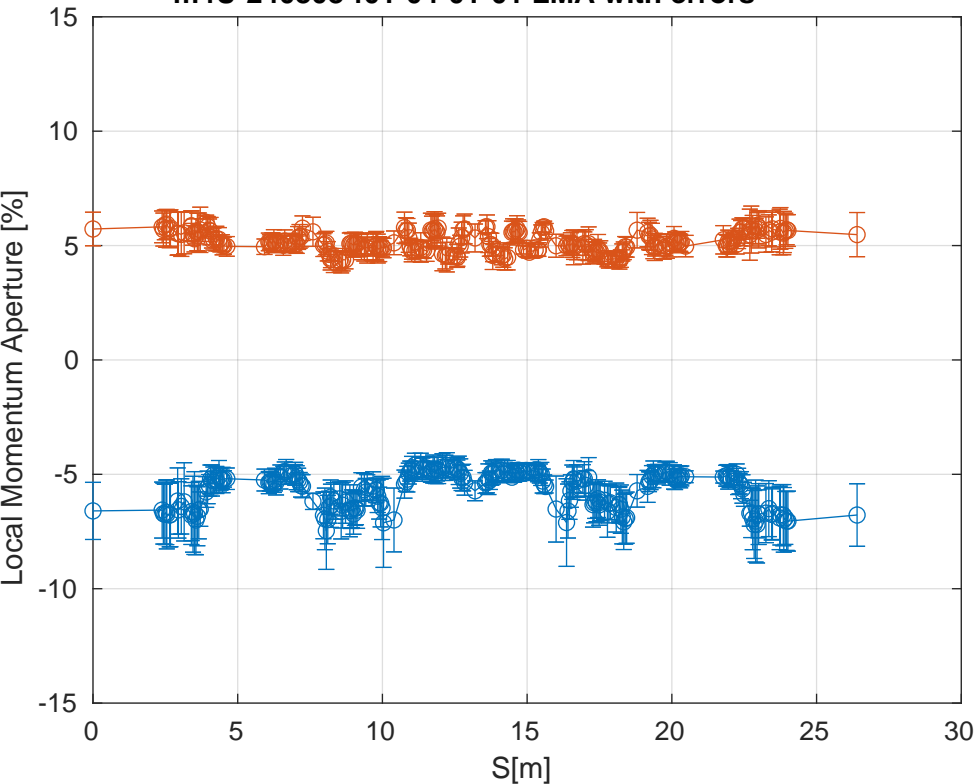
4U-240808-f01-04-01-01 Tune Diffusion Rate:(Y,DP),Res order=3



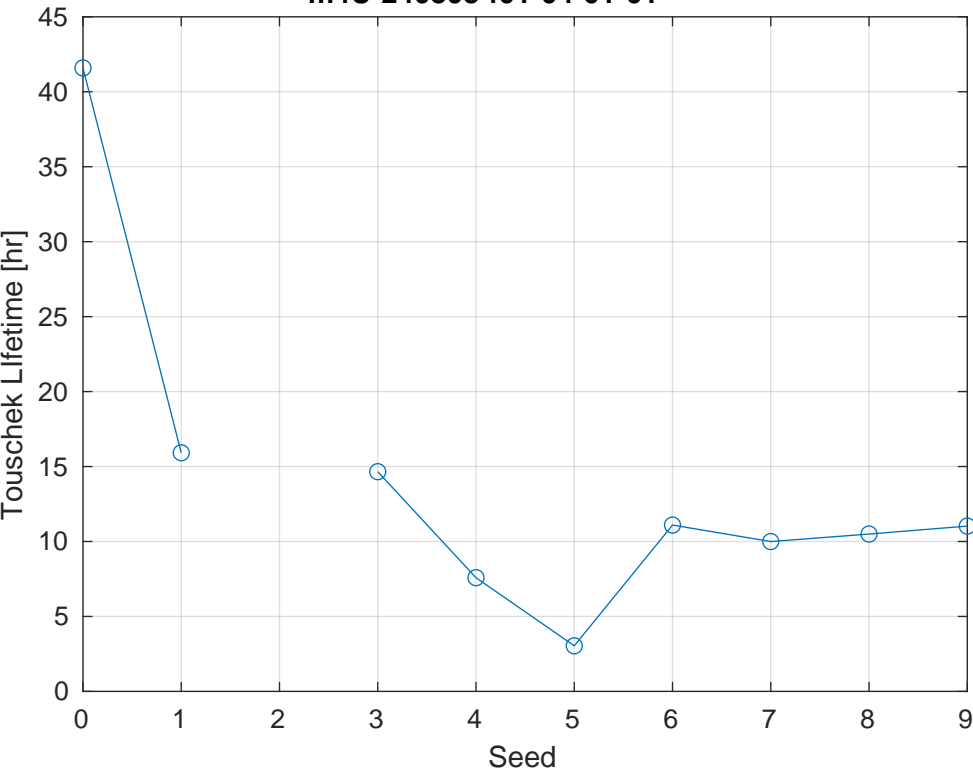
m4U-240808-f01-04-01-01 LMA without errors



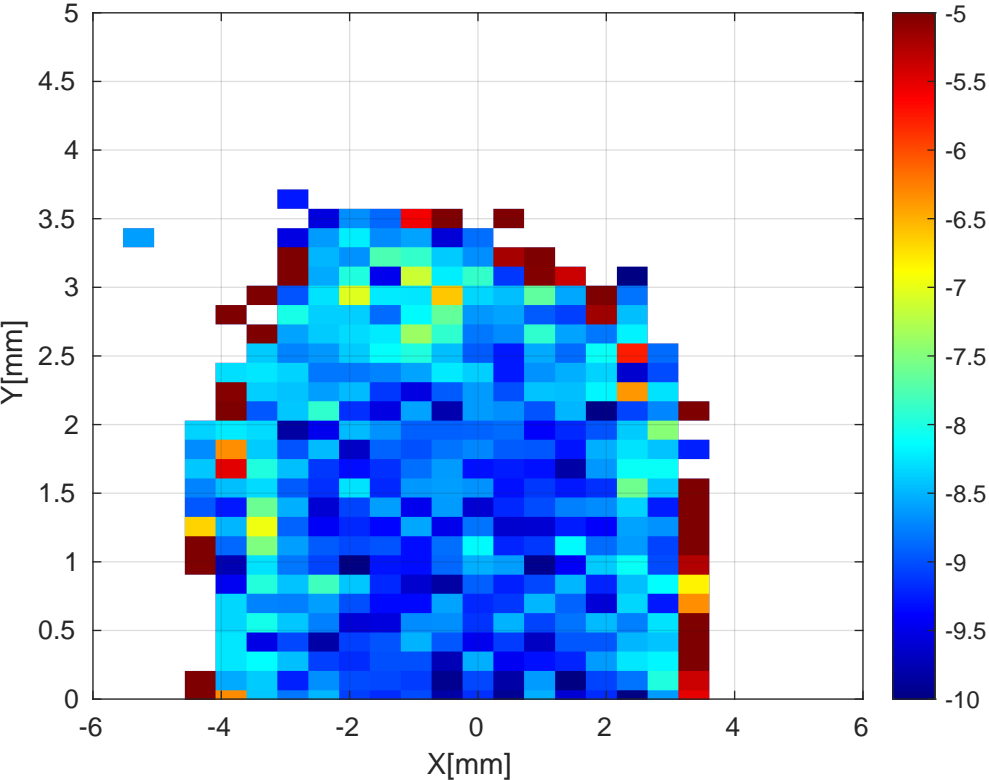
m4U-240808-f01-04-01-01 LMA with errors



m4U-240808-f01-04-01-01



m4U-240808-f01-04-01-01: no errors Tune Diffusion Rate



m4U-240808-f01-04-01-01: with errors Tune Diffusion Rate

