

INSPECTION REPORT

Customer:

IAA

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Ref.: WS-PVC5918-A	Project: SLICER MAAT	File nb: 24906
Date: 17 Apr. 2024	Title: Inspection before coating	Order n: -
Project manager: LAPERE, M. Vincent	Piece: MAAT slicer Reference: 23160-119-ENS1 SN: 1	

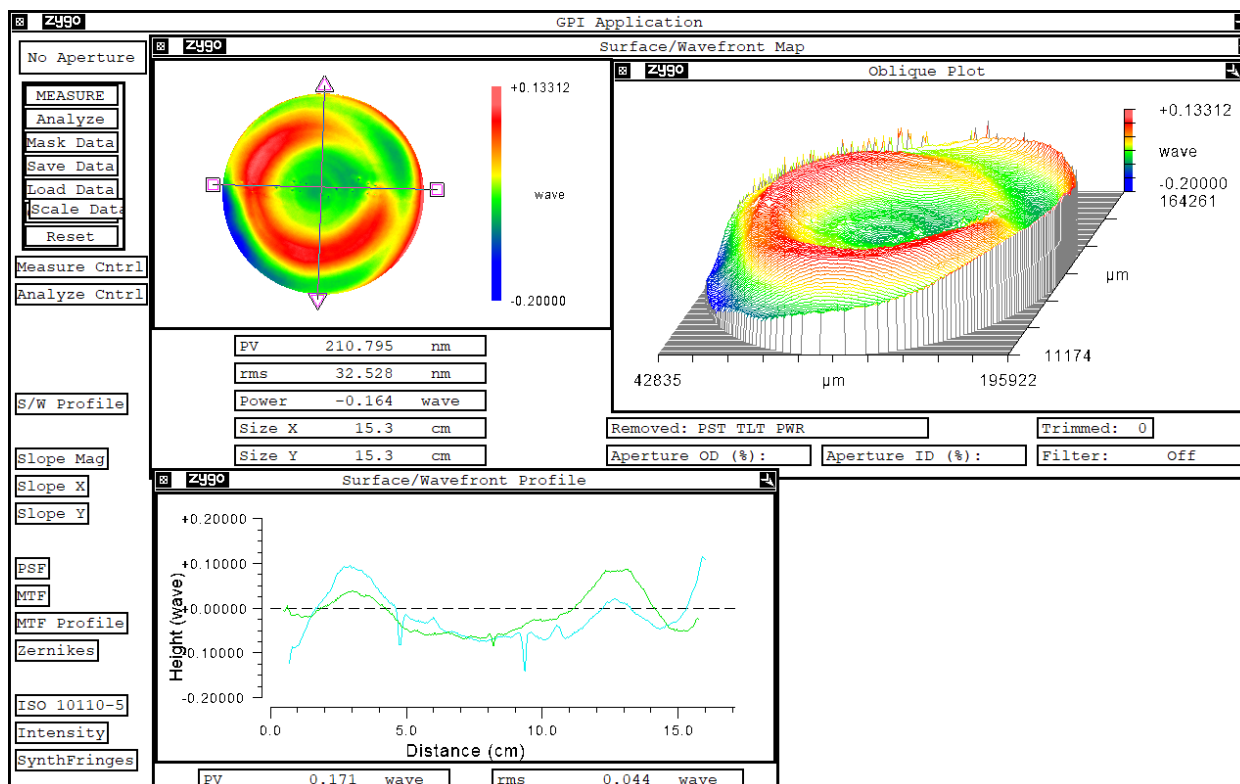
Applicable documents. : (drawing, documents...)	3160-119-ENS1 & related drawings
Indicate the issue	
Distribution list: Files, Customer	Original: QA

Inspection before coating

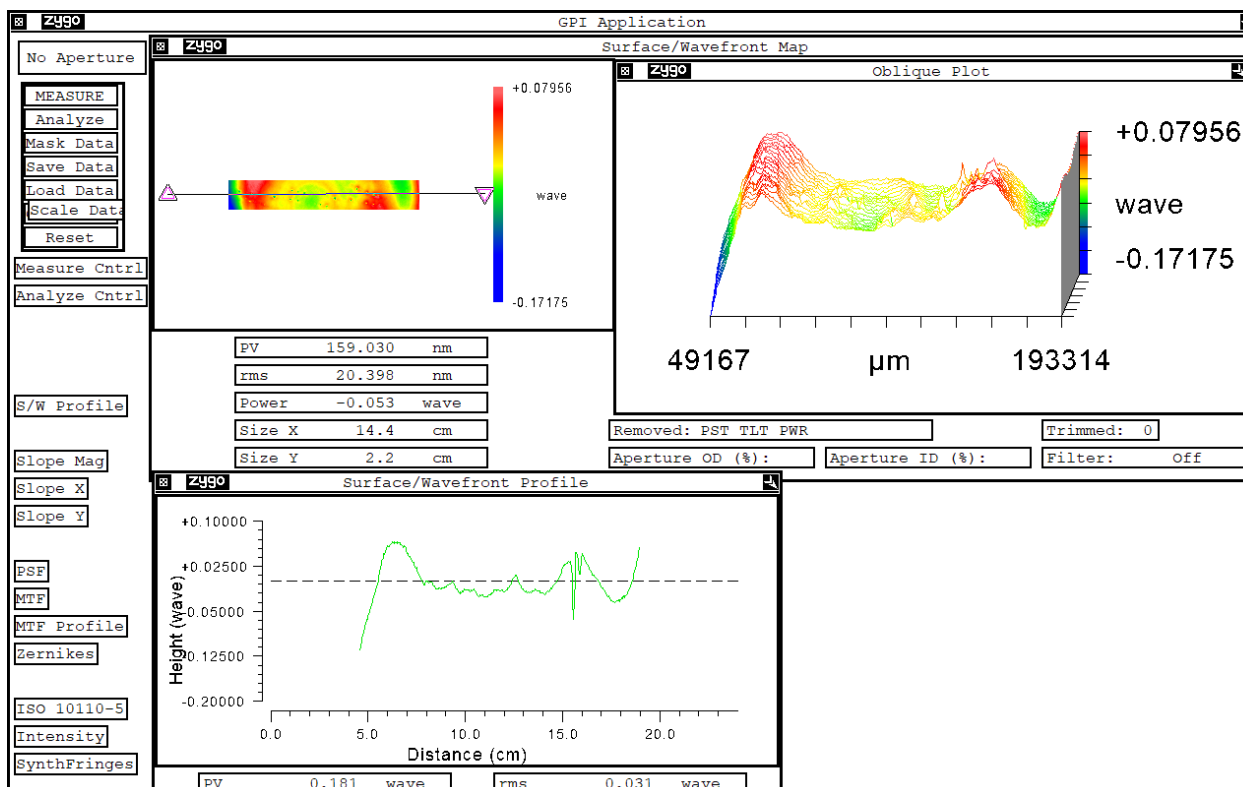
Parameter	Requirement	Value	Compliance	Comment
Material	Fused Silica	HPFS7980	Yes	-
Length (mm)	40 +/-0.05	40.00 +/- 0.01	Yes	For all the different slices
Thickness of slices (mm)	0.95 +/-0.005	0.95 +/-0.003	Yes	For all the different slices
Radius of Curvature	228.032 +/- 0.23 concave	2298.023 mm concave	Yes	-
Parallelism of sides	<10 arcsec	< 5 arcsec	Yes	-
Perpendicularity side / A	<1 arcmin	< 15 arcsec	Yes	-
Perpendicularity side / B	<10 arcsec	< 5 arcsec	Yes	-
Clear aperture	Full spherical surface	Full spherical surface	Yes	-
Shape error over CA	SFE < 316nm PTV (Focus removed)	< 160 nm PTV	Yes	Over full area of slices
Roughness	< 1.5nm RMS	< 0.7 nm RMS	Yes	-
Aspect	No defect greater than 10µm, no edge chip	No defect greater than 5µm visible	Yes	-
Thickness of slicer mirror pile (mm)	21.85 +/-0.115	21.87	Yes	-
Aspct of molecular adherence	-	2 air "bubble" visible, but fully stable.	Yes	-

Control Result		Statement		
Compliant:	1	<input type="checkbox"/> under restriction	Accepted:	1
Non-compliant:	0	Request for waiver ref.:	Refused:	0
Observation:				
	Inspector	Project Manager	Quality Manager	
Date and Signature	30/09/2024	30/09/2024	30/09/2024	
	X Aurélie Monier	X Vincent LAPERE	X Richard Holowczak	
	Inspector Signé par : amonier	Project Manager Signé par : vlapere	Quality Signé par : Holowczak Richard	

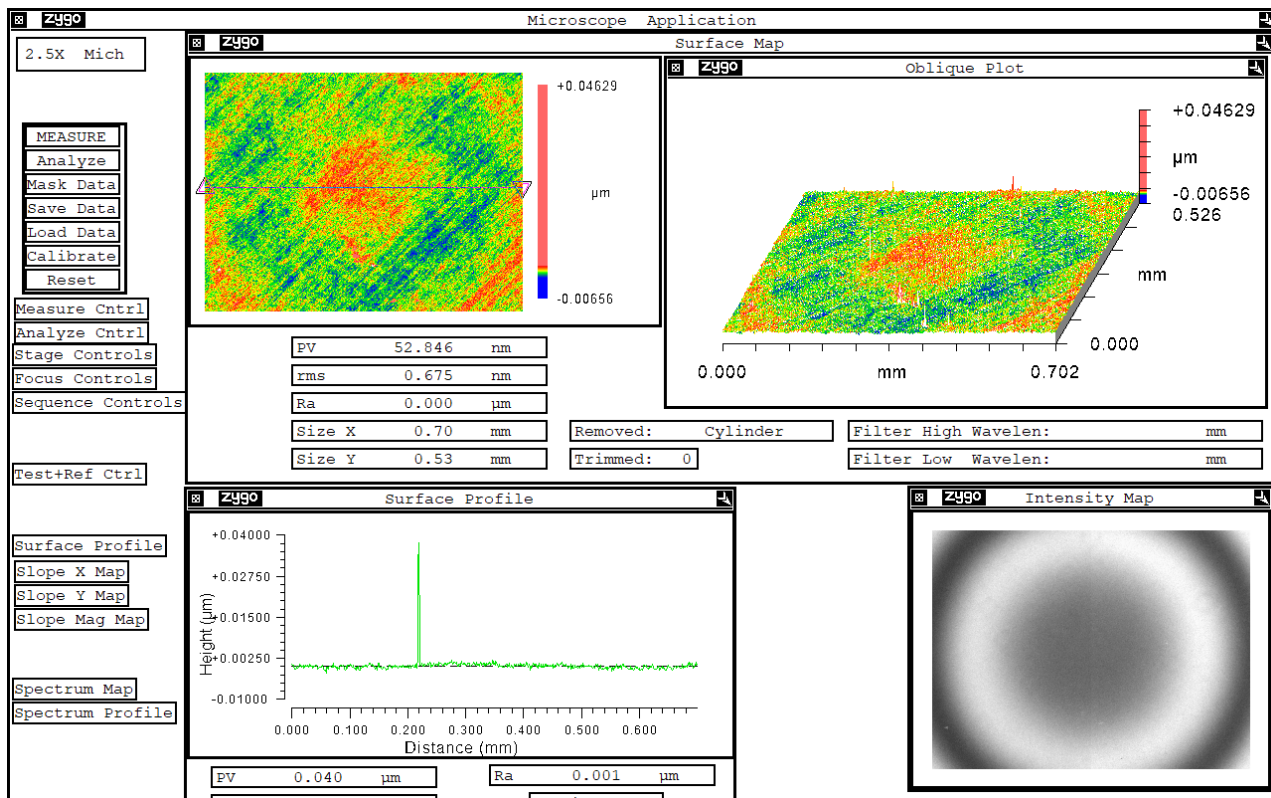
Drawing of the Slice #1 (other 22 similar)



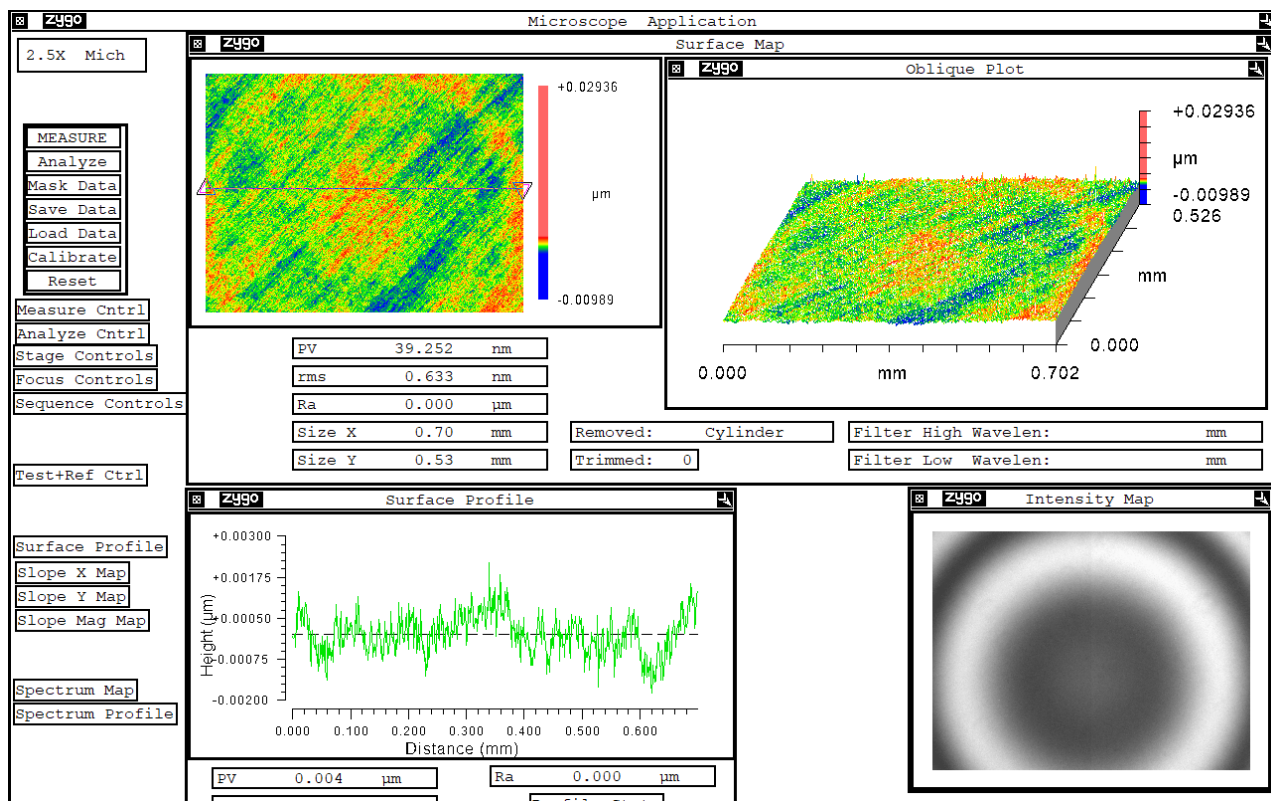
Surface Front Error - full polished aera



Surface Front Error - Slicer mirror aera



Roughness center



Roughness edge

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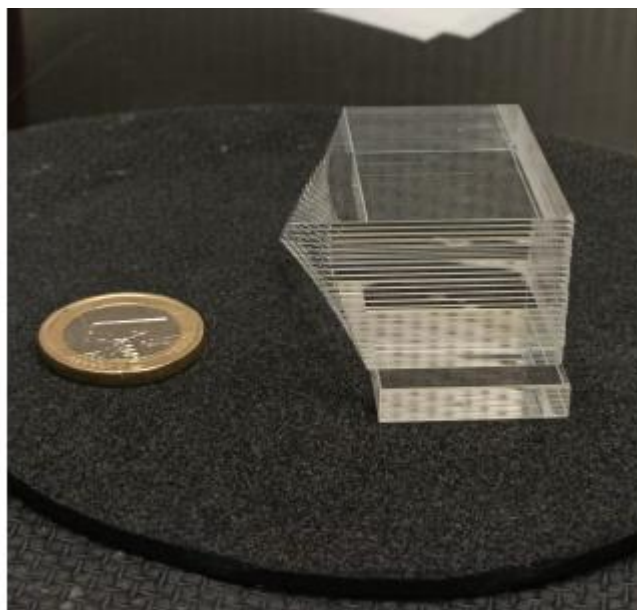
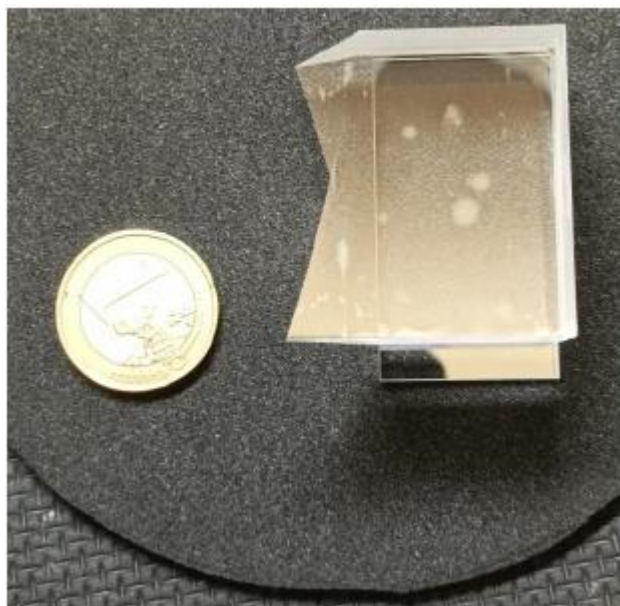
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Project Name: SLICER MAAT

File nb: 24906



List of measuring tools:

Instrument n°	Instrument designation	Accuracy	Calibration validity date	Reference of the calibration report	Measurement tool used on
WO-APO067	Unité d'affichage + Palpeur Sylvac	Er. Ind.: 3µm Er. Rep.: 1µm	22/10/2024	<u>WS-PVE378-A</u>	27/05/2024
WS-AIT239	Zygo nterferometer	Voir PVE	11/05/2025	<u>WS-PVE418-A</u>	27/05/2024
WX-APO001	Rugosimètre 7300 - Zygo NewView	± 0.09 Å RMS	27/03/2025	<u>WS-PVE419-A</u>	27/05/2024
BT-APO002	Stylo optique CHR Mini OEM + sonde -2	± 0,5 mm	24/02/2031	<u>WS-PVE464-A</u>	27/05/2024