

PERFILOMETRIAS

PRÁTICA 2 – PROCESSO DE FRESAMENTO

ANÁLISE DA RUGOSIDADE (FIGURA 2)

IMPORTANTE! LEIA COM ATENÇÃO!

- PARA CADA SUPERFÍCIE USINADA (A a F), FORAM FEITAS 3 MEDIDAS DE PERFILOMETRIA PARA CÁLCULO DE RUGOSIDADE MÉDIA E VARIABILIDADE (BARRA DE ERRO NO EIXO Y NO GRÁFICO AVANÇO x RUGOSIDADE). PARA CÁLCULO DA MÉDIA E DESVIO, CONSIDERE A RUGOSIDADE R_t DOS GRÁFICOS DE PERFILOMETRIA 3D APENAS.

- NÃO HÁ NECESSIDADE DE INSERIR NO RELATÓRIO TODAS AS IMAGENS DE PERFILOMETRIA. ESCOLHA UMA DE CADA AVANÇO PARA INSERIR NO RELATÓRIO.

- PARA CADA MEDIDA, FORAM GERADAS 3 IMAGENS DE PERFILOMETRIA (SUPERFÍCIE PLANA, SUPERFÍCIE 3D E PERFIL).

PERFILOMETRIAS 2D, 3D E PERFIL

AVANÇO DE 0,051 mm/z

3 medidas

Surface Statistics:

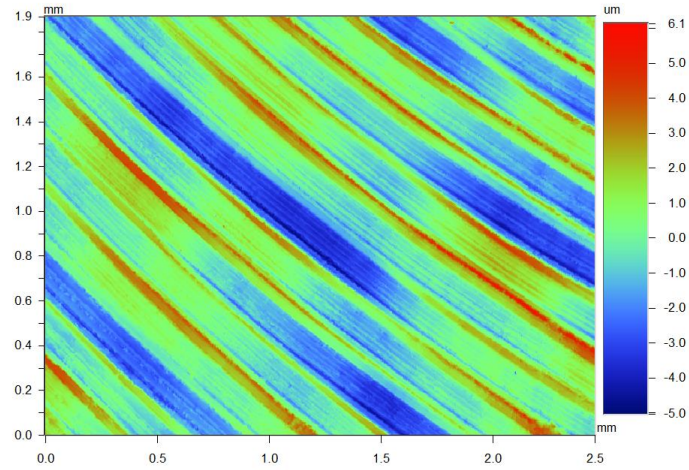
Ra: 1.32 um
Rq: 1.68 um
Rz: 10.68 um
Rt: 11.15 um

Set-up Parameters:

Size: 736 X 480
Sampling: 3.34 um

Processed Options:

Terms Removed:
Tilt
Filtering:
None



Title:

Note:

3-Dimensional Interactive Display

Surface Stats:

Ra: 1.32 um

Rq: 1.68 um

Rt: 11.15 um

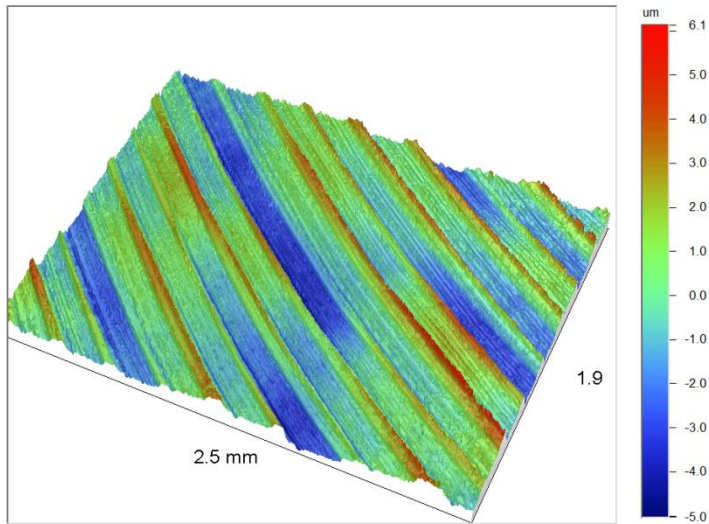
Measurement Info:

Magnification: 2.51

Measurement Mode: VSI

Sampling: 3.34 um

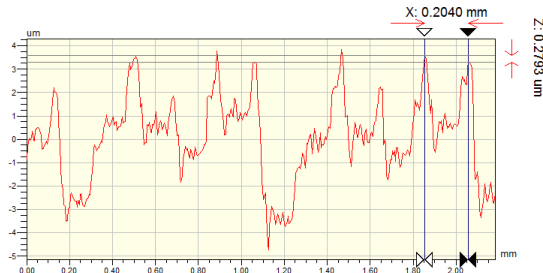
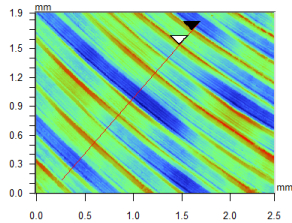
Array Size: 736 X 480



Title:

Note:

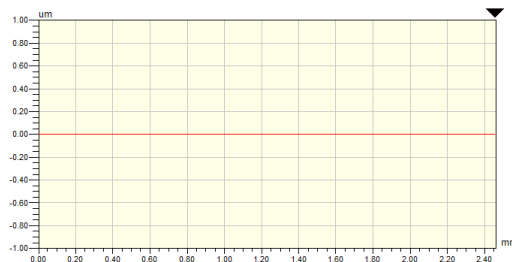
2 Point Profile



Rq	1.04 um
Ra	0.87 um
Rt	4.15 um
Rp	3.59 um
Rv	-0.56 um

Angle	-1.37 mrad
Curve	1.70 mm
Terms	None
Avg Ht	1.26 um
Area	255.95 um2

(Inactive)



Rq	0.00 um
Ra	0.00 um
Rt	0.00 um
Rp	0.00 um
Rv	0.00 um

Angle	0.00 mrad
Curve	0.00 mm
Terms	None
Avg Ht	0.00 um
Area	0.00 um2

	Delta	
X	0.26	1.43 mm
Y	0.15	1.63 mm
Ht	-0.23	-2.51 um
Dist		2.17 mm
Angle		48.86 °

Title:

Note:

Figura 1 – fz = 0,051 mm/z, medida 1

Surface Statistics:

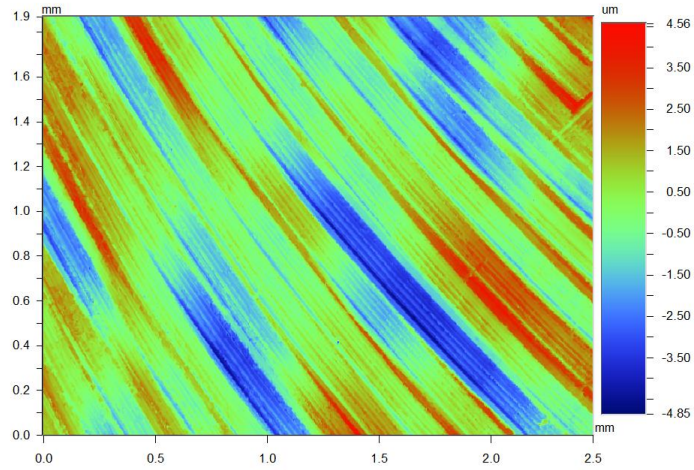
Ra: 1.13 μm
Rq: 1.45 μm
Rz: 9.00 μm
Rt: 9.41 μm

Set-up Parameters:

Size: 736 X 480
Sampling: 3.34 μm

Processed Options:

Terms Removed:
Tilt
Filtering:
None



Title:

Note:

3-Dimensional Interactive Display

Surface Stats:

Ra: 1.13 μm

Rq: 1.45 μm

Rt: 9.41 μm

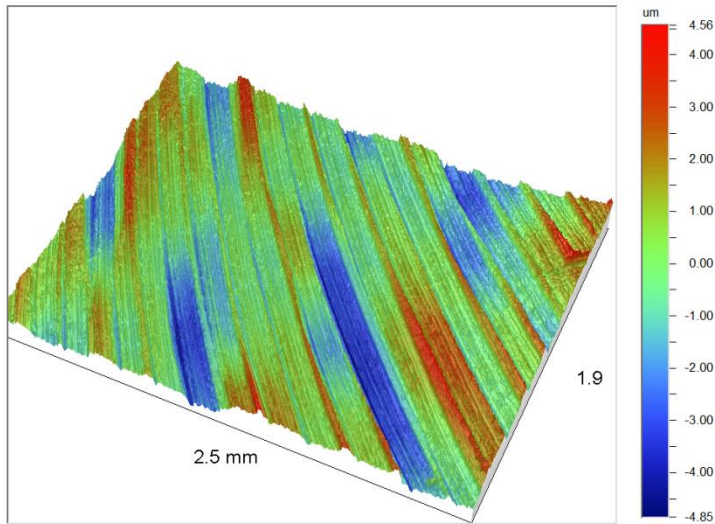
Measurement Info:

Magnification: 2.51

Measurement Mode: VSI

Sampling: 3.34 μm

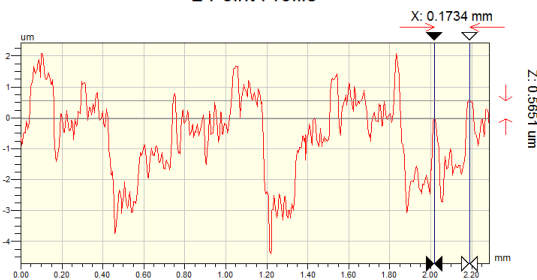
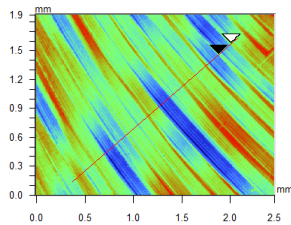
Array Size: 736 X 480



Title:

Note:

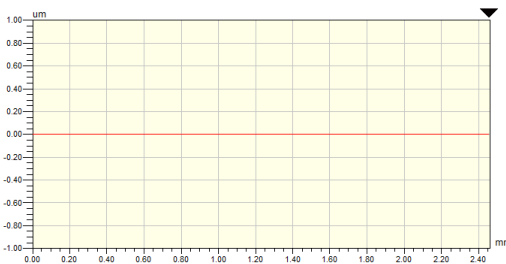
2 Point Profile



Rq	0.85 μm
Ra	0.67 μm
Rt	3.33 μm
Rp	0.59 μm
Rv	-2.74 μm

Angle	3.60 mrad
Curve	1.91 mm
Terms	None
Avg Ht	-1.29 μm
Area	-217.33 μm^2

(Inactive)



Rq	0.00 μm
Ra	0.00 μm
Rt	0.00 μm
Rp	0.00 μm
Rv	0.00 μm

Angle	0.00 mrad
Curve	0.00 mm
Terms	None
Avg Ht	0.00 μm
Area	0.00 μm^2

		Delta	
X	0.37	2.09	1.71 mm
Y	0.14	1.63	1.49 mm
Ht	-0.87	0.15	1.03 μm
Dist			2.27 mm
Angle			41.06 °

Title:

Note:

Figura 2 – fz = 0,051 mm/z, medida 2

Surface Statistics:

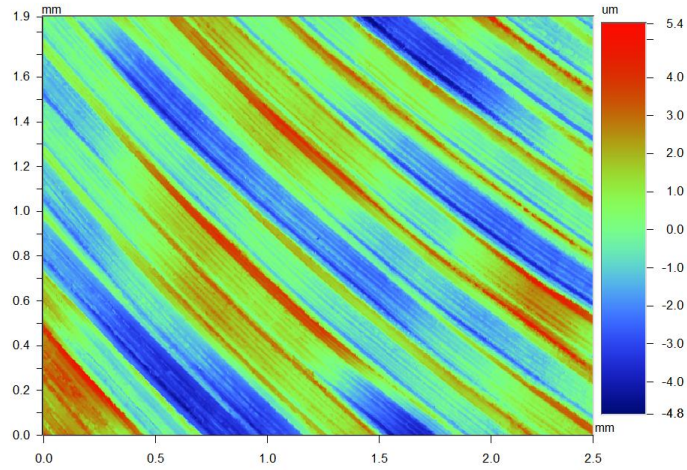
Ra: 1.34 μm
Rq: 1.65 μm
Rz: 9.86 μm
Rt: 10.24 μm

Set-up Parameters:

Size: 736 X 480
Sampling: 3.34 μm

Processed Options:

Terms Removed:
Tilt
Filtering:
None



Title:

Note:

3-Dimensional Interactive Display

Surface Stats:

Ra: 1.34 μm

Rq: 1.65 μm

Rt: 10.24 μm

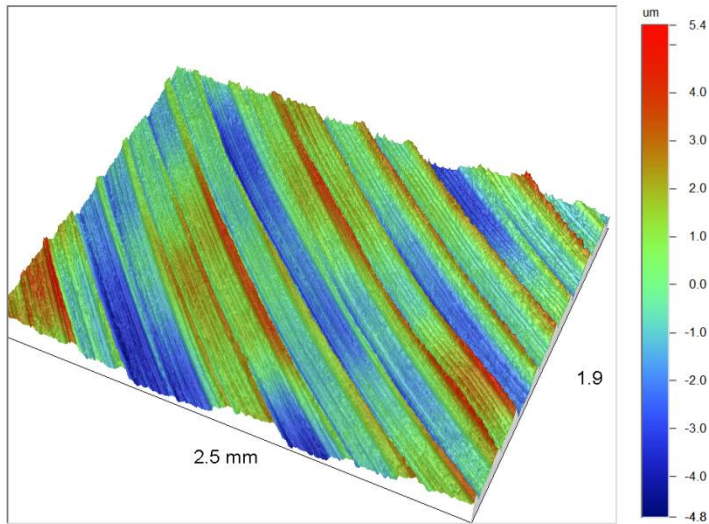
Measurement Info:

Magnification: 2.51

Measurement Mode: VSI

Sampling: 3.34 μm

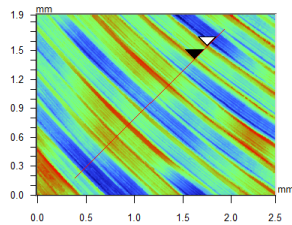
Array Size: 736 X 480



Title:

Note:

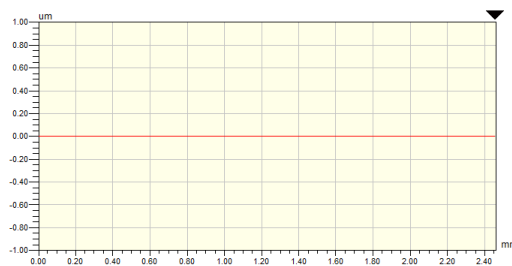
2 Point Profile



Rq	0.99 μm
Ra	0.82 μm
Rt	4.06 μm
Rp	3.40 μm
Rv	-0.66 μm

Angle	-907.73 μrad
Curve	1.70 mm
Terms	None
Avg Ht	1.11 μm
Area	209.44 μm^2

(Inactive)



Rq	0.00 μm
Ra	0.00 μm
Rt	0.00 μm
Rp	0.00 μm
Rv	0.00 μm

Angle	0.00 mrad
Curve	0.00 mm
Terms	None
Avg Ht	0.00 μm
Area	0.00 μm^2

	Delta		
X	0.39	1.94	1.55 mm
Y	0.18	1.73	1.55 mm
Ht	-0.10	0.08	0.18 μm
Dist	2.19 mm		
Angle	44.95 $^\circ$		

Title:

Note:

Figura 3 – fz = 0,051 mm/z, medida 3

PERFILOMETRIAS 2D, 3D E PERFIL

AVANÇO DE 0,114 mm/z

3 medidas

Surface Statistics:

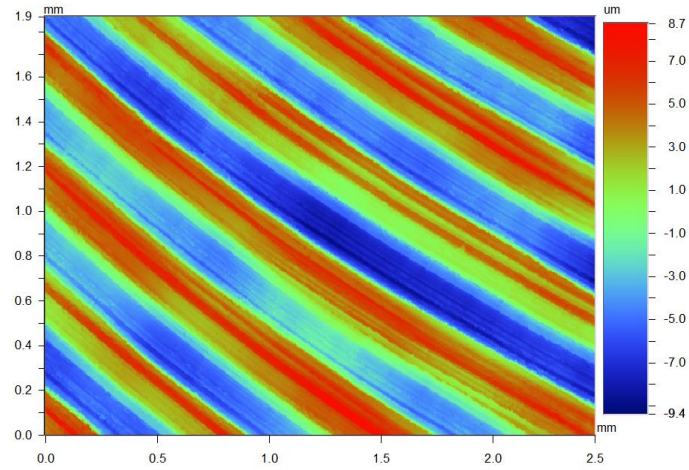
Ra: 3.89 um
Rq: 4.31 um
Rz: 17.79 um
Rt: 18.09 um

Set-up Parameters:

Size: 736 X 480
Sampling: 3.34 um

Processed Options:

Terms Removed:
Tilt
Filtering:
None



Title:

Note:

3-Dimensional Interactive Display

Surface Stats:

Ra: 3.89 um

Rq: 4.31 um

Rt: 18.09 um

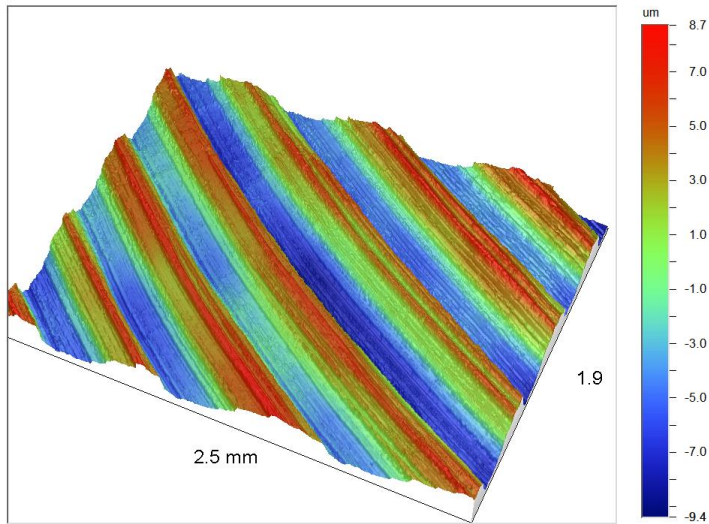
Measurement Info:

Magnification: 2.51

Measurement Mode: VSI

Sampling: 3.34 um

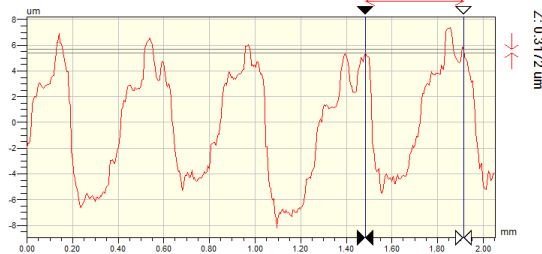
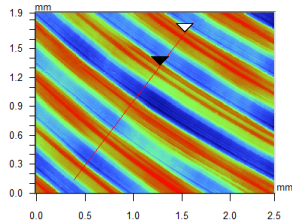
Array Size: 736 X 480



Title:

Note:

2 Point Profile

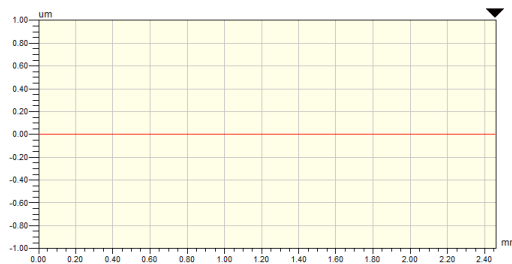


Rq	4.28 um
Ra	4.02 um
Rt	12.91 um
Rp	7.41 um
Rv	-5.51 um

Angle	737.80 urad
Curve	3.72 mm
Terms	None
Avg Ht	0.56 um
Area	240.92 um2

(Inactive)

	Delta	
X	0.39 1.62 1.23	mm
Y	0.15 1.77 1.63	mm
Ht	-1.65 -3.96 -2.31	um
Dist	2.04	mm
Angle	52.90	°



Rq	0.00 um
Ra	0.00 um
Rt	0.00 um
Rp	0.00 um
Rv	0.00 um

Angle	0.00 mrad
Curve	0.00 mm
Terms	None
Avg Ht	0.00 um
Area	0.00 um2

Title:

Note:

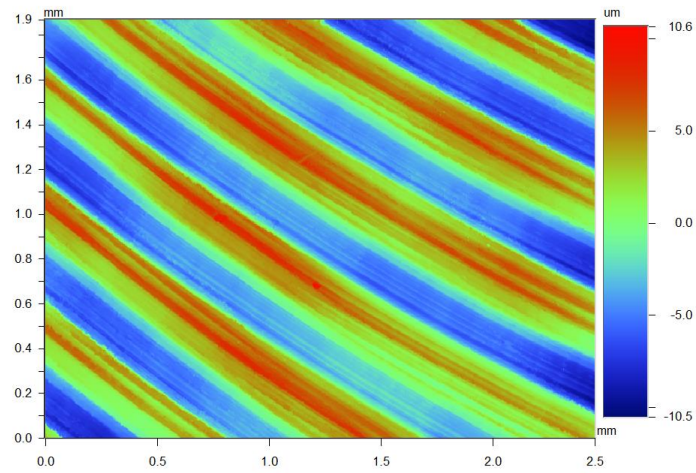
Figura 4 – fz = 0,114 mm/z, medida 1

Surface Data

Surface Statistics:
 Ra: 3.84 um
 Rq: 4.29 um
 Rz: 19.26 um
 Rt: 21.14 um

Set-up Parameters:
 Size: 736 X 480
 Sampling: 3.34 um

Processed Options:
 Terms Removed:
 Tilt
 Filtering:
 None



Title:

Note:

3-Dimensional Interactive Display

Surface Stats:

Ra: 3.84 um

Rq: 4.29 um

Rt: 21.14 um

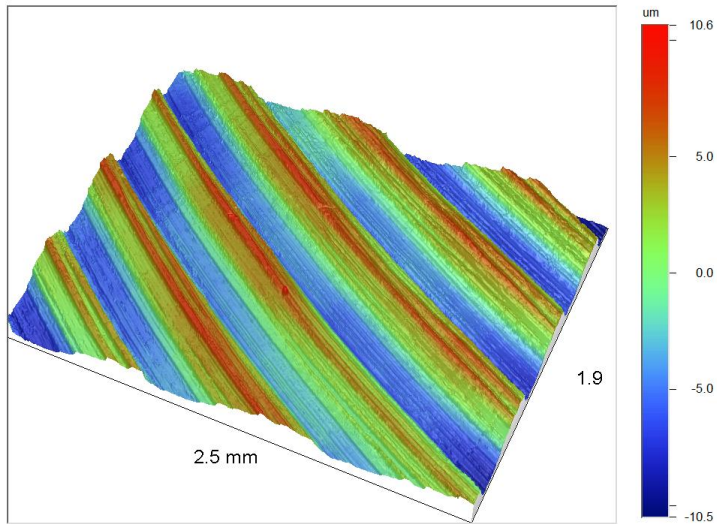
Measurement Info:

Magnification: 2.51

Measurement Mode: VSI

Sampling: 3.34 um

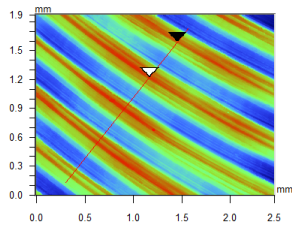
Array Size: 736 X 480



Title:

Note:

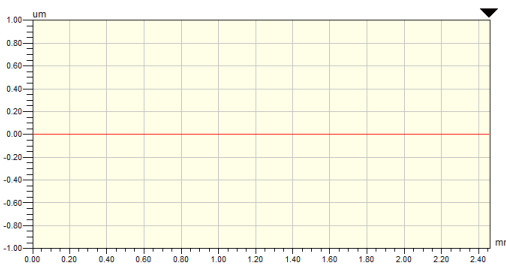
2 Point Profile



Rq	4.05 um
Ra	3.69 um
Rt	13.69 um
Rp	8.17 um
Rv	-5.52 um

Angle	-4.20 mrad
Curve	2.18 mm
Terms	None
Avg Ht	0.60 um
Area	281.33 um2

(Inactive)



Rq	0.00 um
Ra	0.00 um
Rt	0.00 um
Rp	0.00 um
Rv	0.00 um

Angle	0.00 mrad
Curve	0.00 mm
Terms	None
Avg Ht	0.00 um
Area	0.00 um2

	Delta		
X	0.30	1.57	1.27 mm
Y	0.13	1.74	1.60 mm
Ht	0.70	-5.88	-6.58 um
Dist			2.04 mm
Angle			51.60 °

Title:

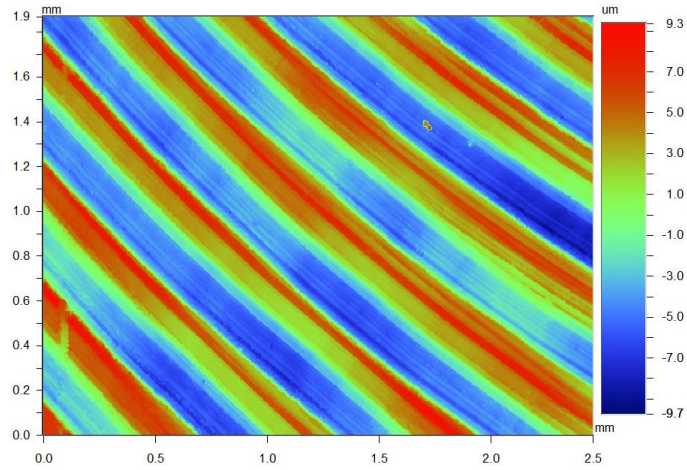
Note:

Figura 5 – fz = 0,114 mm/z, medida 2

Surface Statistics:
 Ra: 3.87 um
 Rq: 4.27 um
 Rz: 18.17 um
 Rt: 19.07 um

Set-up Parameters:
 Size: 736 X 480
 Sampling: 3.34 um

Processed Options:
 Terms Removed:
 Tilt
 Filtering:
 None



Title:

Note:

3-Dimensional Interactive Display

Surface Stats:

Ra: 3.87 um

Rq: 4.27 um

Rt: 19.07 um

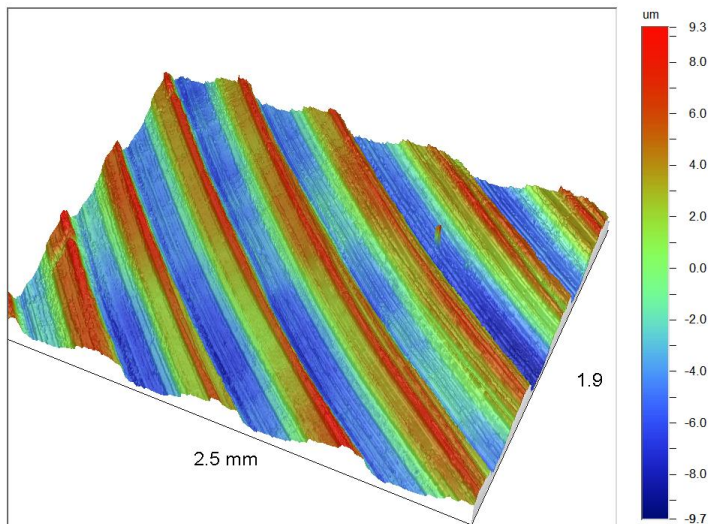
Measurement Info:

Magnification: 2.51

Measurement Mode: VSI

Sampling: 3.34 um

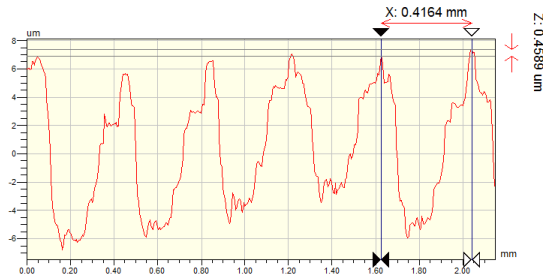
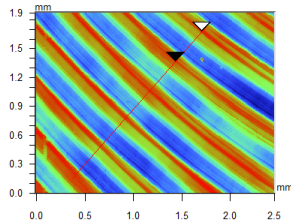
Array Size: 736 X 480



Title:

Note:

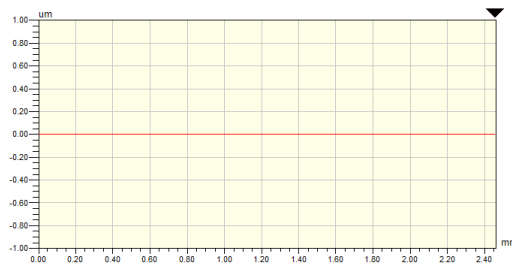
2 Point Profile



Rq	4.30 um
Ra	4.01 um
Rt	13.37 um
Rp	7.41 um
Rv	-5.96 um

Angle	1.10 mrad
Curve	1.69 mm
Terms	None
Avg Ht	0.05 um
Area	19.69 um ²

(Inactive)



Rq	0.00 um
Ra	0.00 um
Rt	0.00 um
Rp	0.00 um
Rv	0.00 um

Angle	0.00 mrad
Curve	0.00 mm
Terms	None
Avg Ht	0.00 um
Area	0.00 um ²

Delta	
X	0.37 1.78 1.41 mm
Y	0.16 1.76 1.60 mm
Ht	6.00 -1.52 -7.52 um
Dist	2.13 mm
Angle	48.65 °

Title:

Note:

Figura 6 – fz = 0,114 mm/z, medida 3

PERFILOMETRIAS 2D, 3D E PERFIL

AVANÇO DE 0,153 mm/z

3 medidas

Surface Statistics:

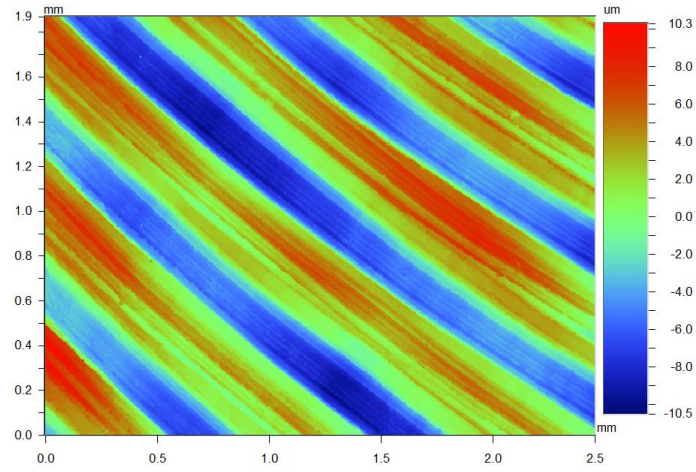
Ra: 3.96 um
Rq: 4.52 um
Rz: 20.22 um
Rt: 20.78 um

Set-up Parameters:

Size: 736 X 480
Sampling: 3.34 um

Processed Options:

Terms Removed:
Tilt
Filtering:
None



Title:

Note:

3-Dimensional Interactive Display

Surface Stats:

Ra: 3.96 um

Rq: 4.52 um

Rt: 20.78 um

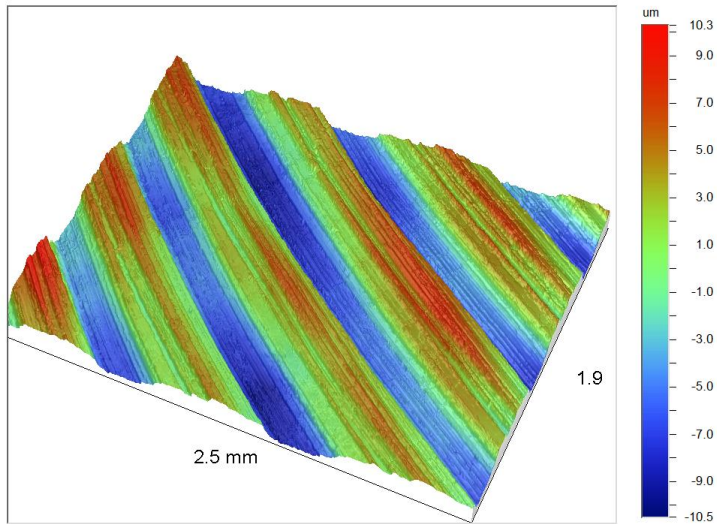
Measurement Info:

Magnification: 2.51

Measurement Mode: VSI

Sampling: 3.34 um

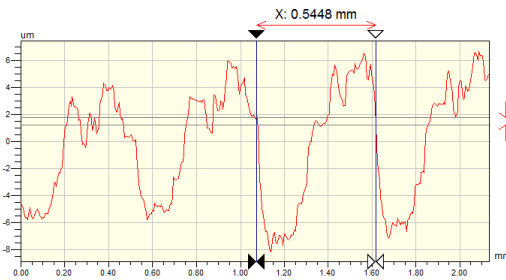
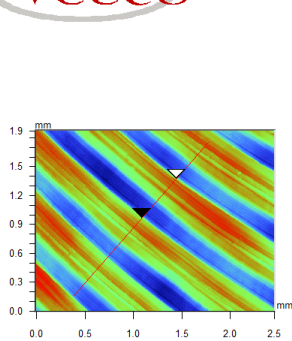
Array Size: 736 X 480



Title:

Note:

2 Point Profile

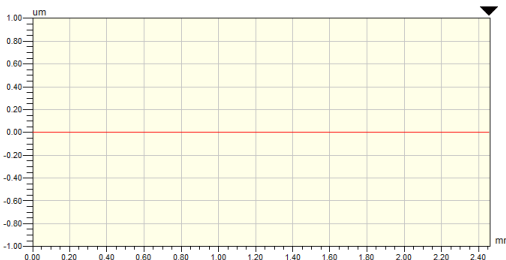


Rq	5.04 um
Ra	4.60 um
Rt	14.69 um
Rp	6.52 um
Rv	-8.17 um

Angle	-981.77 urad
Curve	70.08 mm
Terms	None
Avg Ht	-0.41 um
Area	-225.21 um2

(Inactive)

Delta	
X	0.39 1.78 1.39 mm
Y	0.16 1.76 1.59 mm
Ht	-4.87 4.77 9.64 um
Dist	2.12 mm
Angle	48.85 °



Rq	0.00 um
Ra	0.00 um
Rt	0.00 um
Rp	0.00 um
Rv	0.00 um

Angle	0.00 mrad
Curve	0.00 mm
Terms	None
Avg Ht	0.00 um
Area	0.00 um2

Title:

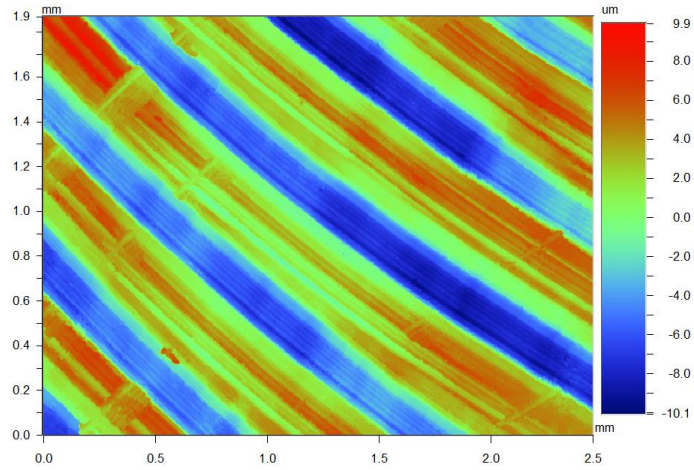
Note:

Figura 7 – fz = 0,153 mm/z, medida 1

Surface Statistics:
 Ra: 3.77 um
 Rq: 4.32 um
 Rz: 19.22 um
 Rt: 19.97 um

Set-up Parameters:
 Size: 736 X 480
 Sampling: 3.34 um

Processed Options:
 Terms Removed:
 Tilt
 Filtering:
 None



Title:

Note:

3-Dimensional Interactive Display

Surface Stats:

Ra: 3.77 um

Rq: 4.32 um

Rt: 19.97 um

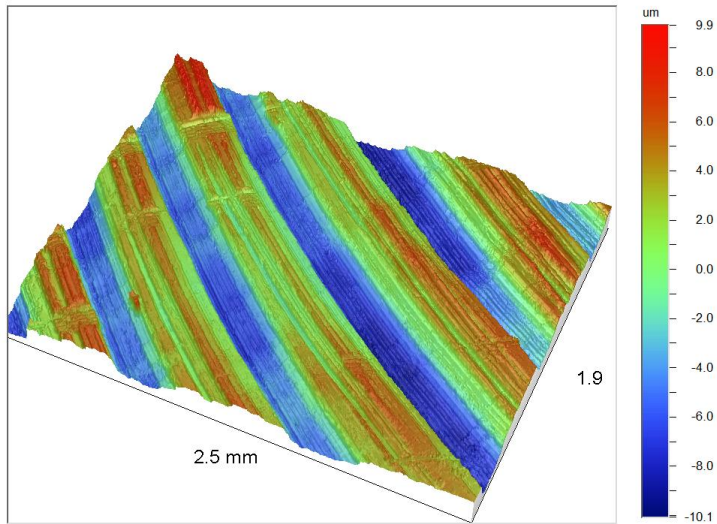
Measurement Info:

Magnification: 2.51

Measurement Mode: VSI

Sampling: 3.34 um

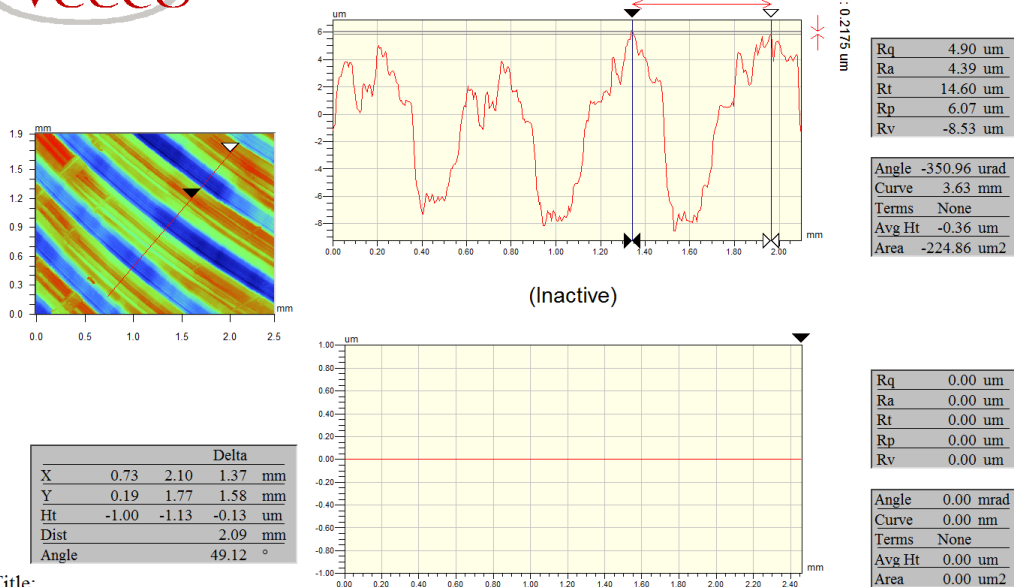
Array Size: 736 X 480



Title:

Note:

2 Point Profile



Title:

Note:

Figura 8 – fz = 0,153 mm/z, medida 2

Surface Statistics:

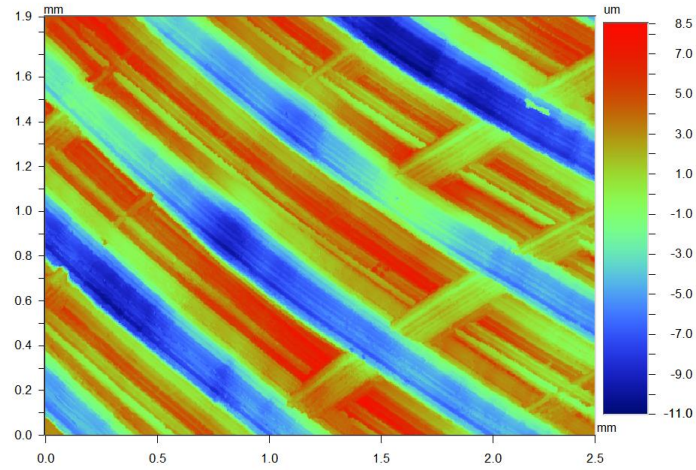
Ra: 3.60 um
Rq: 4.22 um
Rz: 18.93 um
Rt: 19.47 um

Set-up Parameters:

Size: 736 X 480
Sampling: 3.34 um

Processed Options:

Terms Removed:
Tilt
Filtering:
None



Title:

Note:

3-Dimensional Interactive Display

Surface Stats:

Ra: 3.60 um

Rq: 4.22 um

Rt: 19.47 um

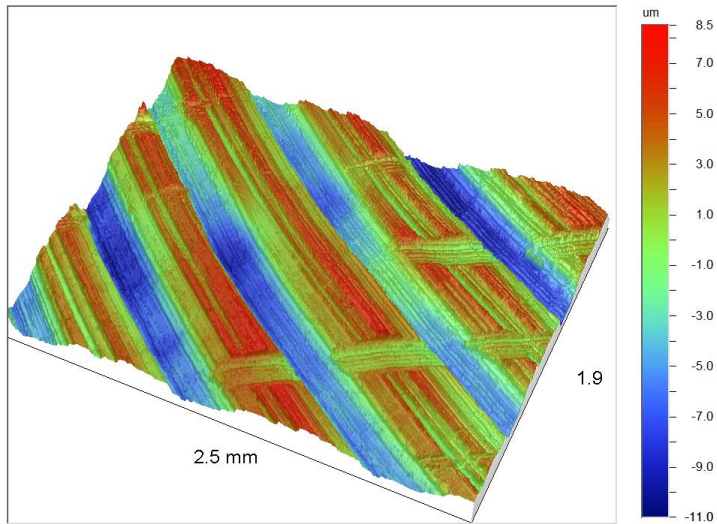
Measurement Info:

Magnification: 2.51

Measurement Mode: VSI

Sampling: 3.34 um

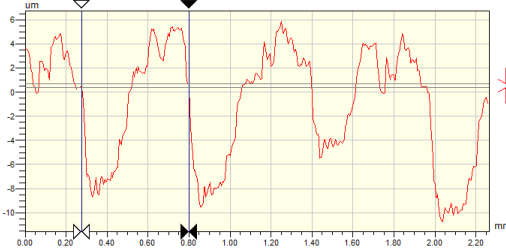
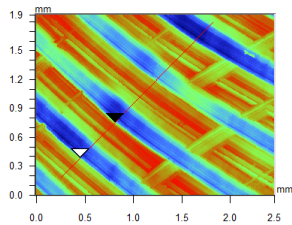
Array Size: 736 X 480



Title:

Note:

2 Point Profile

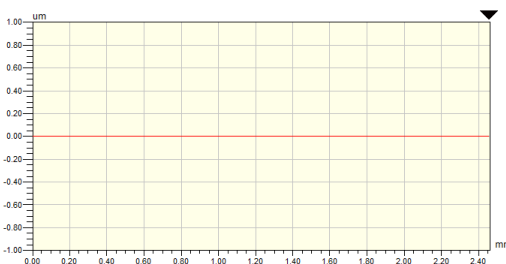


Rq	4.97 um
Ra	4.55 um
Rt	14.09 um
Rp	5.39 um
Rv	-8.71 um

Angle	577.02 urad
Curve	-21.18 mm
Terms	None
Avg Ht	-0.75 um
Area	-391.76 um2

(Inactive)

Delta	
X	0.26 1.83 1.57 mm
Y	0.19 1.80 1.61 mm
Ht	3.53 -0.94 -4.47 um
Dist	2.25 mm
Angle	45.65 °



Rq	0.00 um
Ra	0.00 um
Rt	0.00 um
Rp	0.00 um
Rv	0.00 um

Angle	0.00 mrad
Curve	0.00 mm
Terms	None
Avg Ht	0.00 um
Area	0.00 um2

Title:

Note:

Figura 9 – fz = 0,153 mm/z, medida 3

PERFILOMETRIAS 2D, 3D E PERFIL

AVANÇO DE 0,216 mm/z

3 medidas

Surface Statistics:

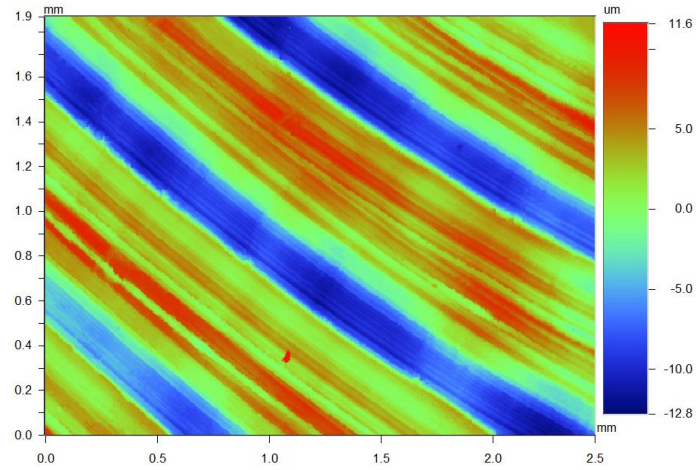
Ra: 4.40 μm
Rq: 5.27 μm
Rz: 22.43 μm
Rt: 24.37 μm

Set-up Parameters:

Size: 736 X 480
Sampling: 3.34 μm

Processed Options:

Terms Removed:
Tilt
Filtering:
None



Title:

Note:

3-Dimensional Interactive Display

Surface Stats:

Ra: 4.40 μm

Rq: 5.27 μm

Rt: 24.37 μm

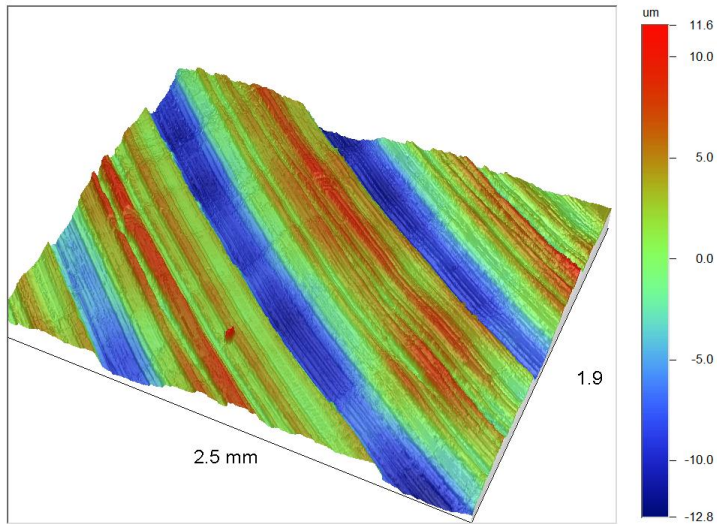
Measurement Info:

Magnification: 2.51

Measurement Mode: VSI

Sampling: 3.34 μm

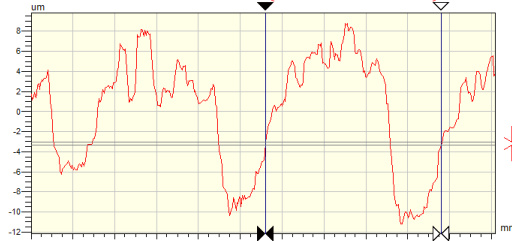
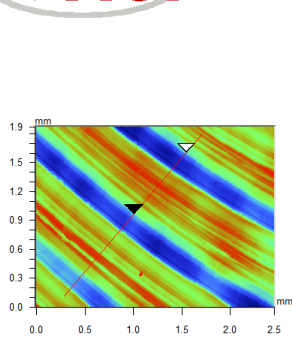
Array Size: 736 X 480



Title:

Note:

2 Point Profile

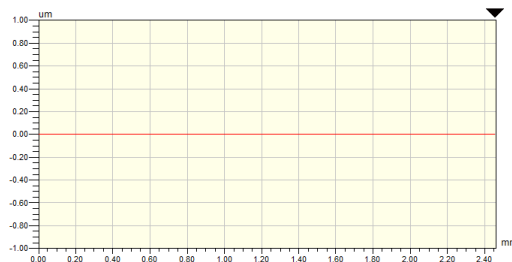


Rq	6.36 μm
Ra	5.52 μm
Rt	20.00 μm
Rp	8.81 μm
Rv	-11.19 μm

Angle	-381.71 μrad
Curve	-7.38 mm
Terms	None
Avg Ht	0.37 μm
Area	310.20 μm^2

(Inactive)

Delta	
X	0.29 1.71 1.43 mm
Y	0.12 1.80 1.68 mm
Ht	1.14 3.54 2.41 μm
Dist	2.20 mm
Angle	49.66 $^\circ$



Rq	0.00 μm
Ra	0.00 μm
Rt	0.00 μm
Rp	0.00 μm
Rv	0.00 μm

Angle	0.00 mrad
Curve	0.00 mm
Terms	None
Avg Ht	0.00 μm
Area	0.00 μm^2

Title:

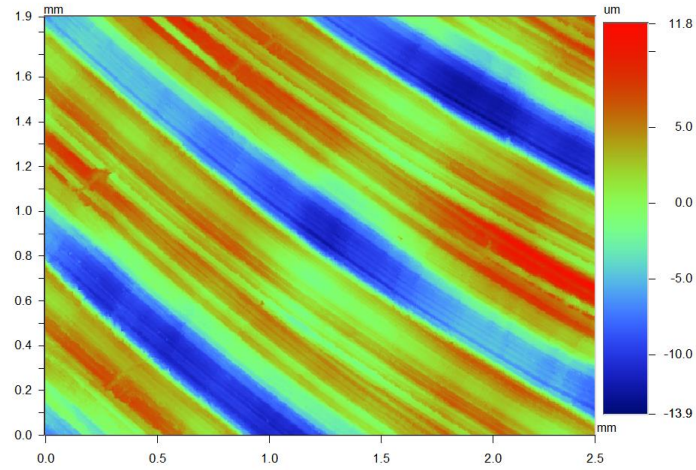
Note:

Figura 10 – fz = 0,216 mm/z, medida 1

Surface Statistics:
 Ra: 4.36 um
 Rq: 5.23 um
 Rz: 25.03 um
 Rt: 25.71 um

Set-up Parameters:
 Size: 736 X 480
 Sampling: 3.34 um

Processed Options:
 Terms Removed:
 Tilt
 Filtering:
 None



Title:

Note:

3-Dimensional Interactive Display

Surface Stats:

Ra: 4.36 um

Rq: 5.23 um

Rt: 25.71 um

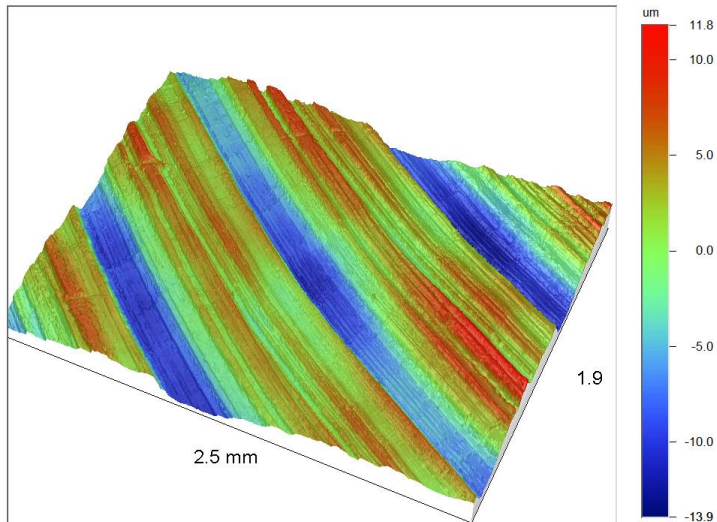
Measurement Info:

Magnification: 2.51

Measurement Mode: VSI

Sampling: 3.34 um

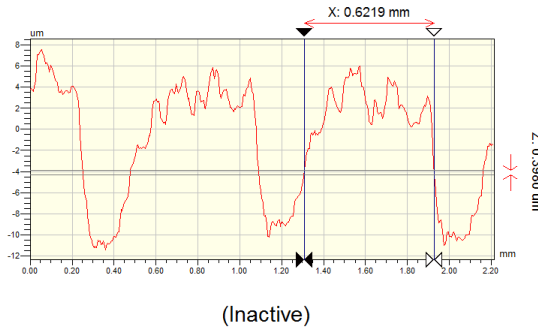
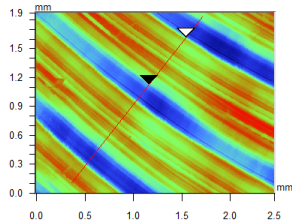
Array Size: 736 X 480



Title:

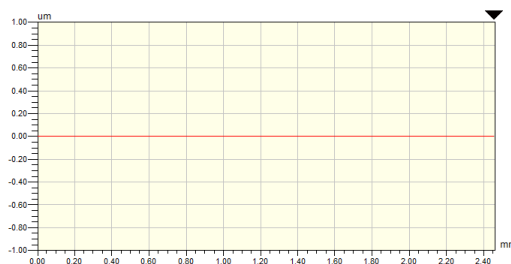
Note:

2 Point Profile



Rq	2.17 um
Ra	1.72 um
Rt	10.31 um
Rp	6.00 um
Rv	-4.31 um
Angle	-641.43 urad
Curve	-9.49 mm
Terms	None
Avg Ht	2.02 um
Area	1256.15 um2

Delta	
X	0.36 1.72 1.37 mm
Y	0.11 1.84 1.73 mm
Ht	3.90 -1.56 -5.45 um
Dist	2.20 mm
Angle	51.64 °



Rq	0.00 um
Ra	0.00 um
Rt	0.00 um
Rp	0.00 um
Rv	0.00 um

Angle	0.00 mrad
Curve	0.00 mm
Terms	None
Avg Ht	0.00 um
Area	0.00 um2

Title:

Note:

Figura 11 – fz = 0,216 mm/z, medida 2

Surface Statistics:

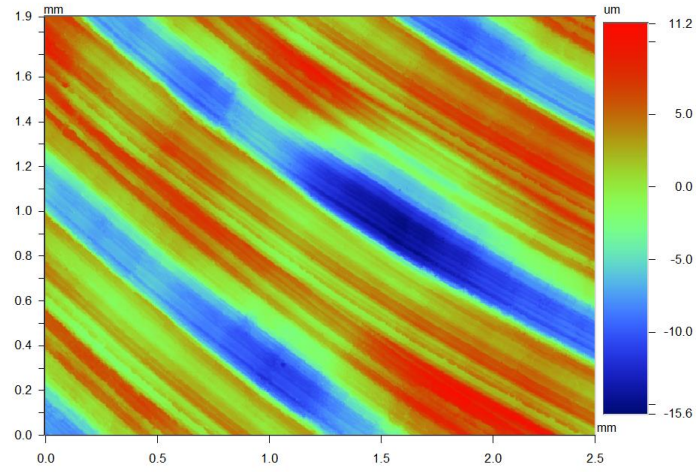
Ra: 4.50 μm
Rq: 5.48 μm
Rz: 26.29 μm
Rt: 26.86 μm

Set-up Parameters:

Size: 736 X 480
Sampling: 3.34 μm

Processed Options:

Terms Removed:
Tilt
Filtering:
None



Title:
Note:

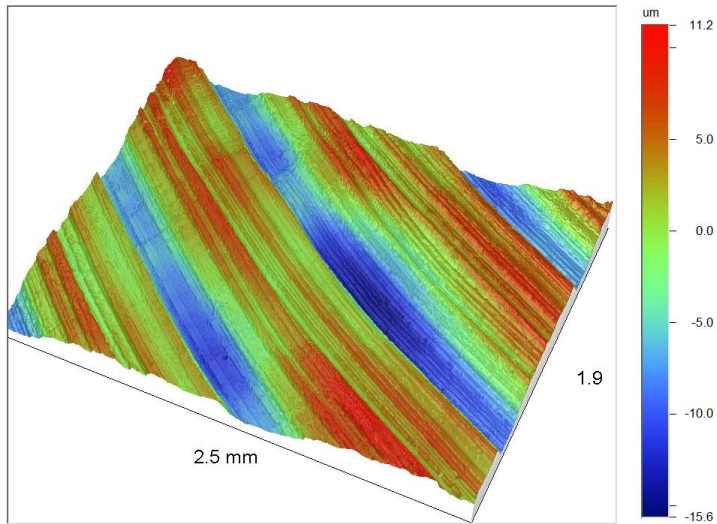
3-Dimensional Interactive Display

Surface Stats:

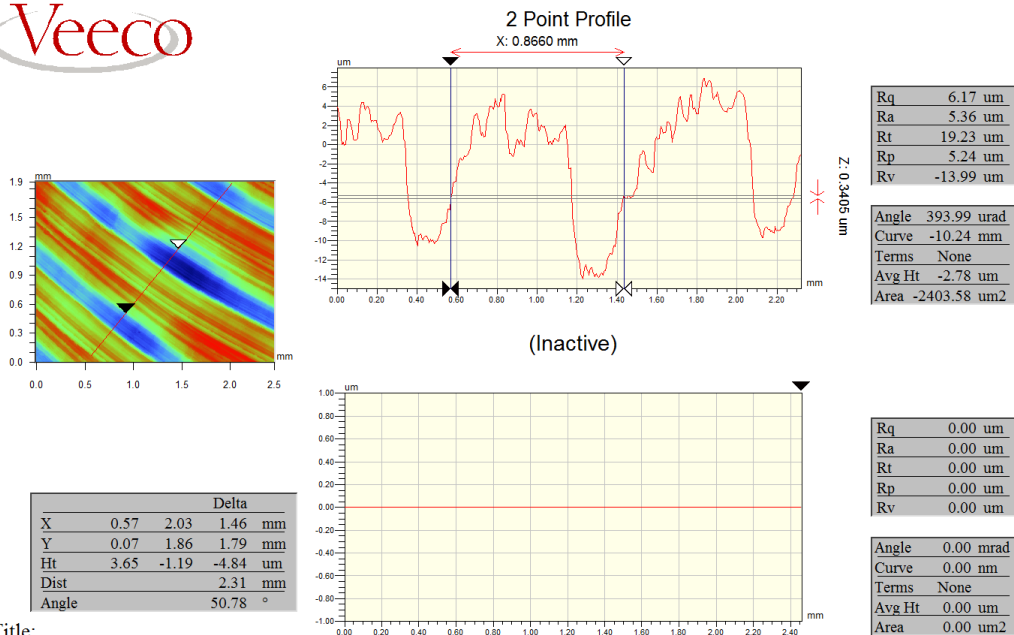
Ra: 4.50 μm
Rq: 5.48 μm
Rt: 26.86 μm

Measurement Info:

Magnification: 2.51
Measurement Mode: VSI
Sampling: 3.34 μm
Array Size: 736 X 480



Title:
Note:



Title:
Note:

Figura 12 – fz = 0,216 mm/z, medida 3

PERFILOMETRIAS 2D, 3D E PERFIL

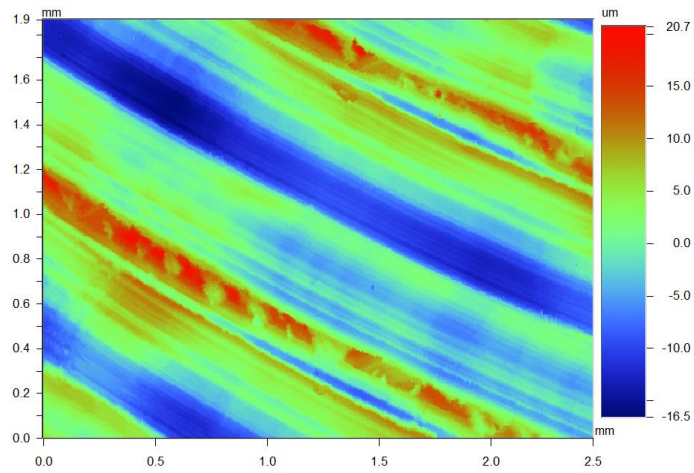
AVANÇO DE 0,290 mm/z

3 medidas

Surface Statistics:
 Ra: 5.18 um
 Rq: 6.53 um
 Rz: 36.20 um
 Rt: 37.20 um

Set-up Parameters:
 Size: 736 X 480
 Sampling: 3.34 um

Processed Options:
 Terms Removed:
 Tilt
 Filtering:
 None



Title:

Note:

3-Dimensional Interactive Display

Surface Stats:

Ra: 5.18 um

Rq: 6.53 um

Rt: 37.20 um

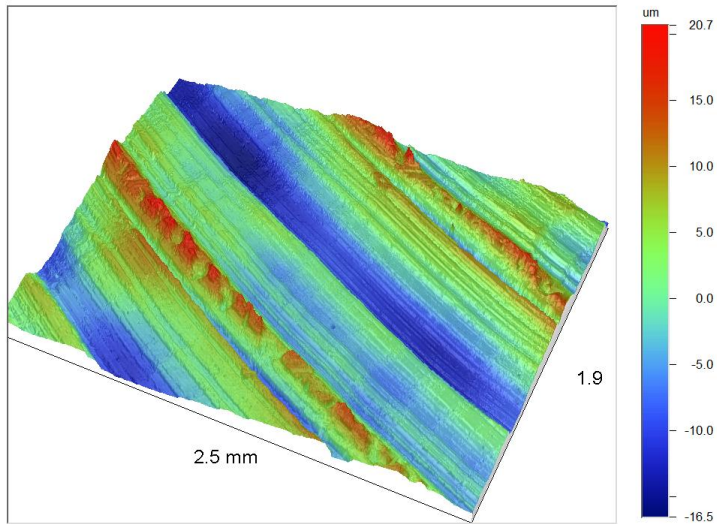
Measurement Info:

Magnification: 2.51

Measurement Mode: VSI

Sampling: 3.34 um

Array Size: 736 X 480

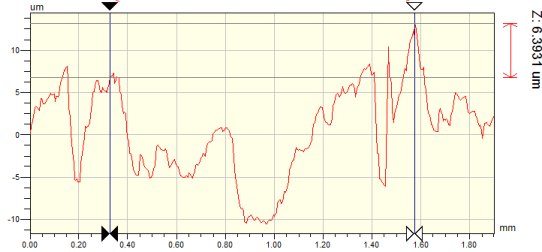
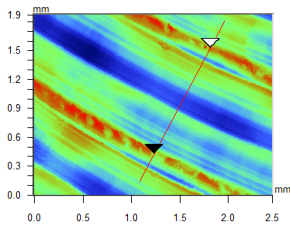


Title:

Note:

2 Point Profile

X: 1.2492 mm

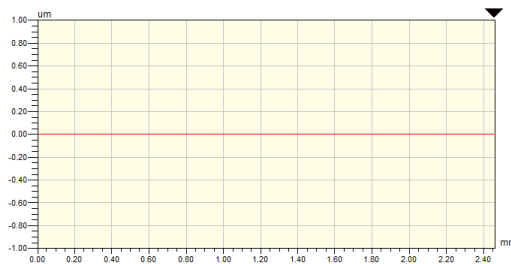


Rq	5.64 um
Ra	4.70 um
Rt	23.73 um
Rp	13.20 um
Rv	-10.53 um

Angle	5.13 mrad
Curve	17.39 mm
Terms	None
Avg Ht	-0.87 um
Area	-1078.40 um2

(Inactive)

	Delta	
X	1.08 1.97	0.89 mm
Y	0.15 1.81	1.66 mm
Ht	1.10 1.92	0.82 um
Dist		1.89 mm
Angle		61.90 °



Rq	0.00 um
Ra	0.00 um
Rt	0.00 um
Rp	0.00 um
Rv	0.00 um

Angle	0.00 mrad
Curve	0.00 mm
Terms	None
Avg Ht	0.00 um
Area	0.00 um2

Title:

Note:

Figura 13 – fz = 0,290 mm/z, medida 1

Surface Statistics:

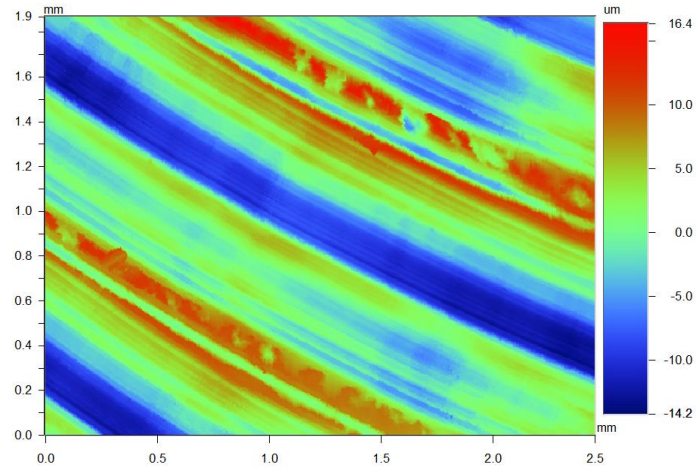
Ra: 4.75 μm
Rq: 5.94 μm
Rz: 29.84 μm
Rt: 30.53 μm

Set-up Parameters:

Size: 736 X 480
Sampling: 3.34 μm

Processed Options:

Terms Removed:
Tilt
Filtering:
None



Title:

Note:

3-Dimensional Interactive Display

Surface Stats:

Ra: 4.75 μm

Rq: 5.94 μm

Rt: 30.53 μm

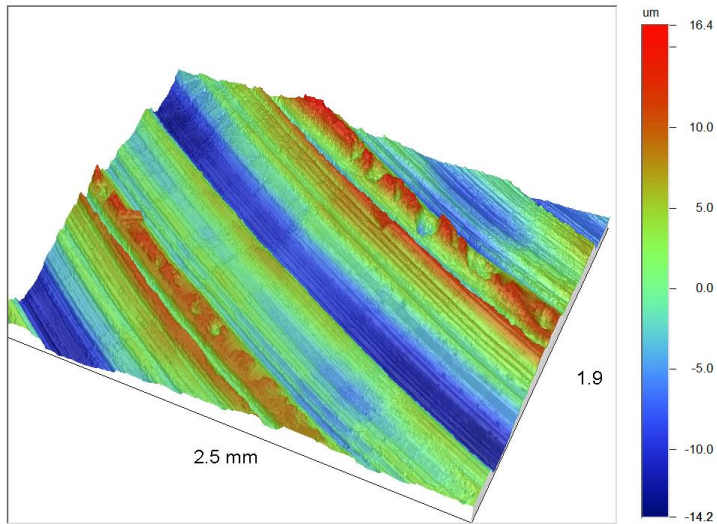
Measurement Info:

Magnification: 2.51

Measurement Mode: VSI

Sampling: 3.34 μm

Array Size: 736 X 480

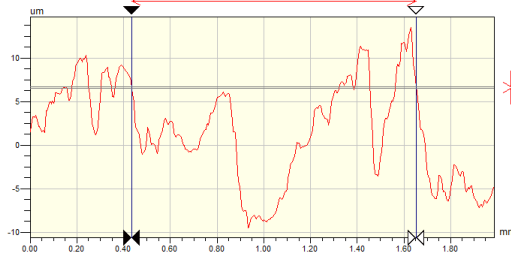
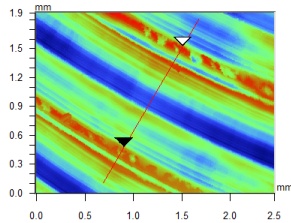


Title:

Note:

2 Point Profile

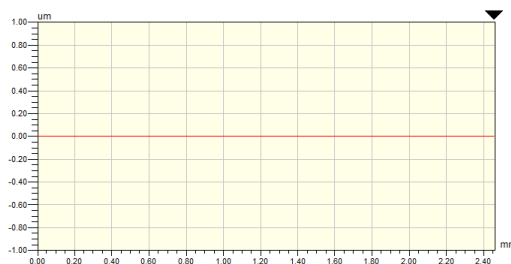
X: 1.2173 mm



Rq	5.58 μm
Ra	4.40 μm
Rt	23.09 μm
Rp	13.58 μm
Rv	-9.50 μm

Angle	150.67 μrad
Curve	19.72 mm
Terms	None
Avg Ht	1.58 μm
Area	1915.70 μm^2

(Inactive)



Rq	0.00 μm
Ra	0.00 μm
Rt	0.00 μm
Rp	0.00 μm
Rv	0.00 μm

Angle	0.00 mrad
Curve	0.00 mm
Terms	None
Avg Ht	0.00 μm
Area	0.00 μm^2

Delta	
X	0.69 1.68 1.00 mm
Y	0.11 1.81 1.70 mm
Ht	2.23 -5.07 -7.30 μm
Dist	1.98 mm
Angle	59.61 $^\circ$

Title:

Note:

Figura 14 – fz = 0,290 mm/z, medida 2

Surface Statistics:

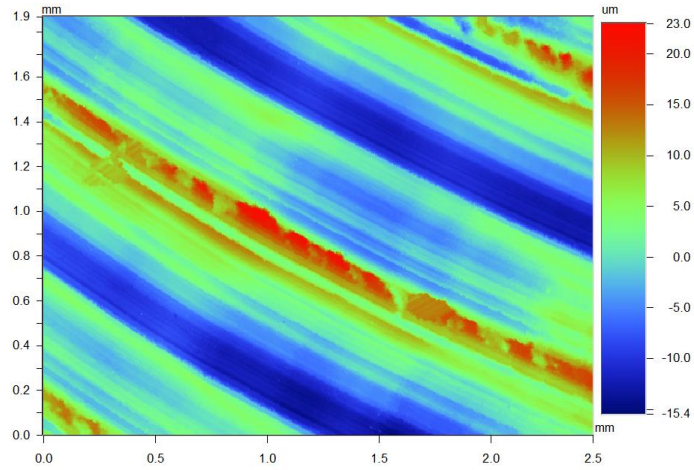
Ra: 5.15 um
Rq: 6.65 um
Rz: 37.36 um
Rt: 38.41 um

Set-up Parameters:

Size: 736 X 480
Sampling: 3.34 um

Processed Options:

Terms Removed:
Tilt
Filtering:
None



Title:

Note:

3-Dimensional Interactive Display

Surface Stats:

Ra: 5.15 um

Rq: 6.65 um

Rt: 38.41 um

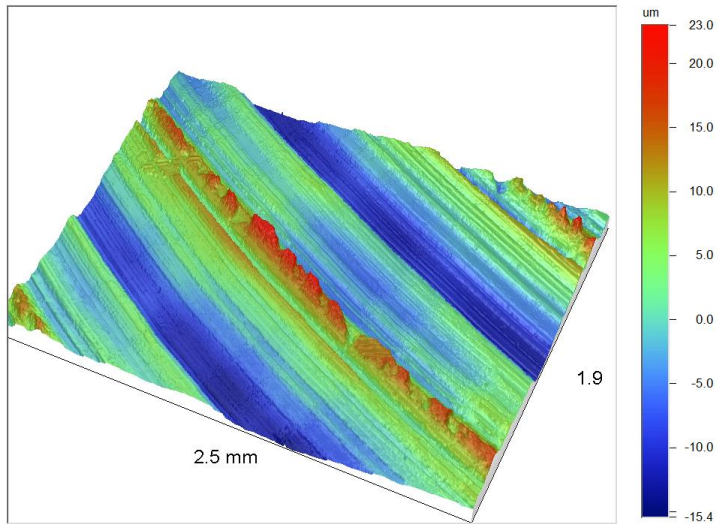
Measurement Info:

Magnification: 2.51

Measurement Mode: VSI

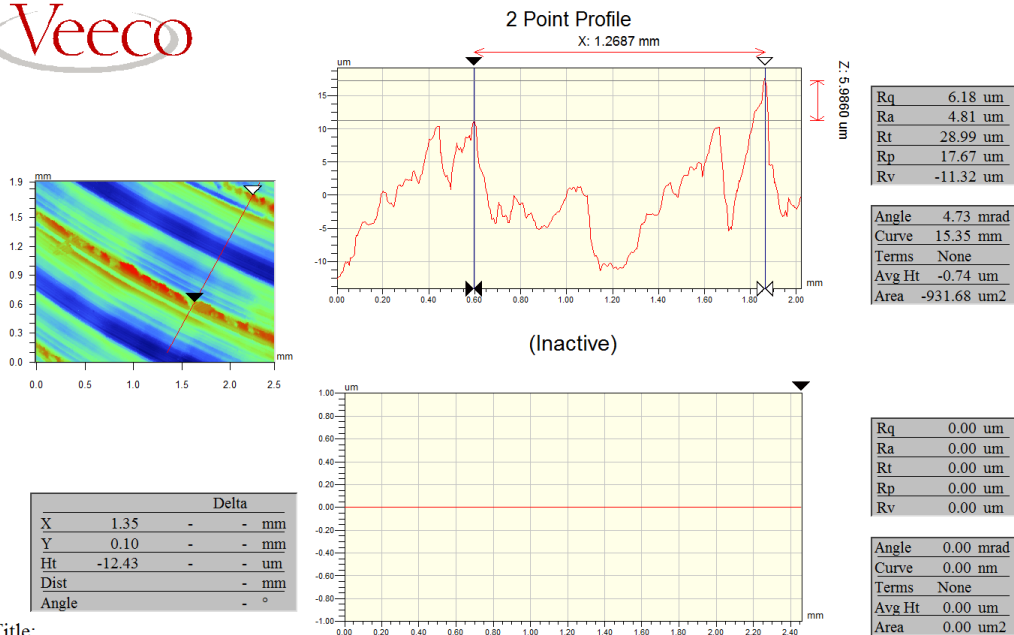
Sampling: 3.34 um

Array Size: 736 X 480



Title:

Note:



Title:

Note:

Figura 15 – fz = 0,290 mm/z, medida 3

PERFILOMETRIAS 2D, 3D E PERFIL

AVANÇO DE 0,380 mm/z

3 medidas

Surface Statistics:

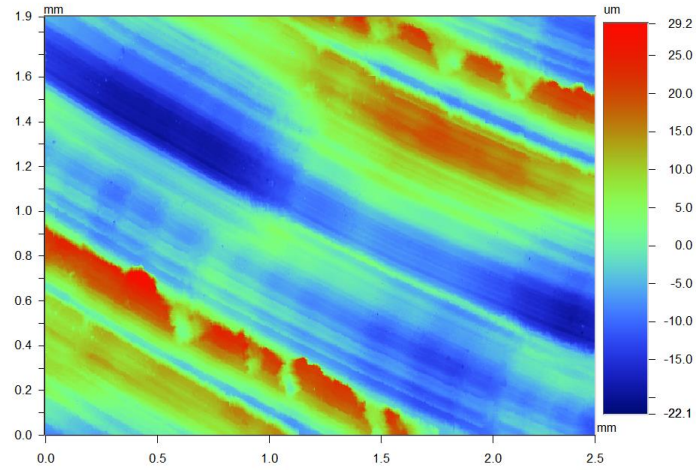
Ra: 7.68 um
Rq: 9.43 um
Rz: 48.21 um
Rt: 51.26 um

Set-up Parameters:

Size: 736 X 480
Sampling: 3.34 um

Processed Options:

Terms Removed:
Tilt
Filtering:
None



Title:

Note:

3-Dimensional Interactive Display

Surface Stats:

Ra: 7.68 um

Rq: 9.43 um

Rt: 51.26 um

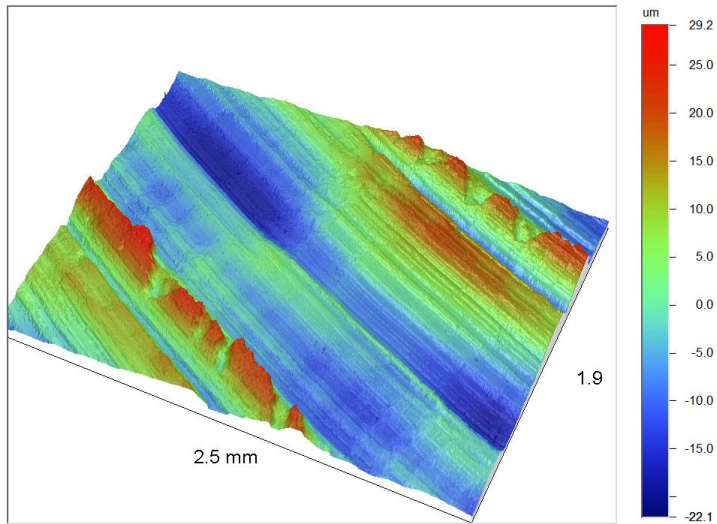
Measurement Info:

Magnification: 2.51

Measurement Mode: VSI

Sampling: 3.34 um

Array Size: 736 X 480

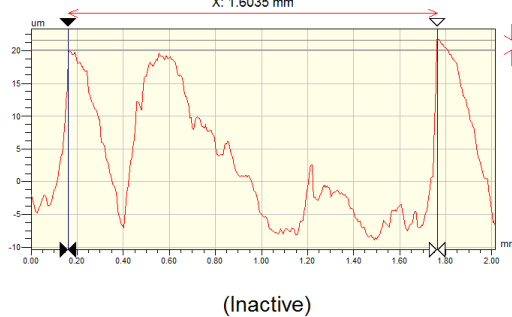
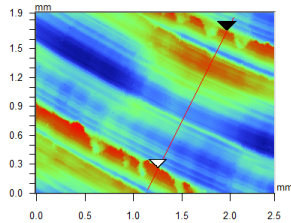


Title:

Note:

2 Point Profile

X: 1.6035 mm

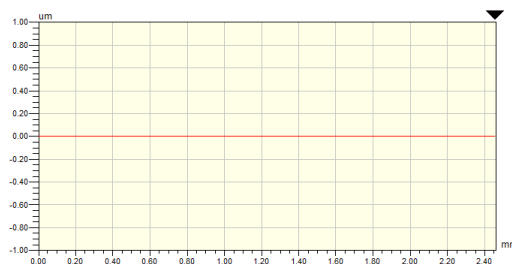


Rq	9.16 um
Ra	7.94 um
Rt	30.68 um
Rp	21.77 um
Rv	-8.91 um

Angle	959.02 urad
Curve	66.55 mm
Terms	None
Avg Ht	2.48 um
Area	3965.53 um2

(Inactive)

Delta	
X	2.04 1.15 -0.90 mm
Y	1.82 0.03 -1.79 mm
Ht	-2.04 -6.16 -4.13 um
Dist	2.00 mm
Angle	-116.59 °



Rq	0.00 um
Ra	0.00 um
Rt	0.00 um
Rp	0.00 um
Rv	0.00 um

Angle	0.00 mrad
Curve	0.00 mm
Terms	None
Avg Ht	0.00 um
Area	0.00 um2

Title:

Note:

Figura 16 – fz = 0,380 mm/z, medida 1

Surface Statistics:

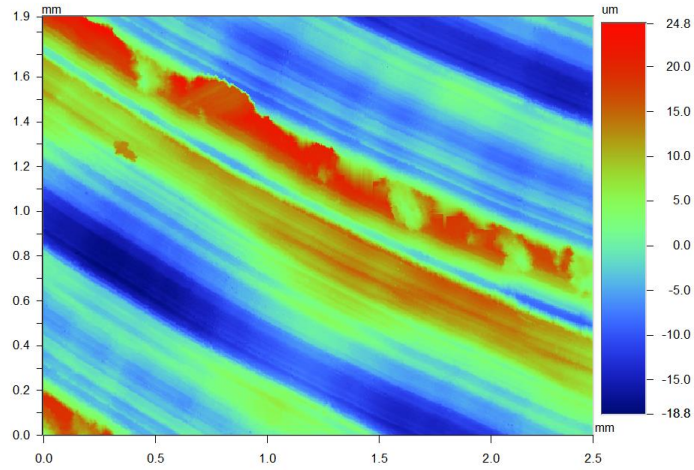
Ra: 7.03 um
 Rq: 8.71 um
 Rz: 42.55 um
 Rt: 43.62 um

Set-up Parameters:

Size: 736 X 480
 Sampling: 3.34 um

Processed Options:

Terms Removed:
 Tilt
 Filtering:
 None



Title:

Note:

3-Dimensional Interactive Display

Surface Stats:

Ra: 7.03 um

Rq: 8.71 um

Rt: 43.62 um

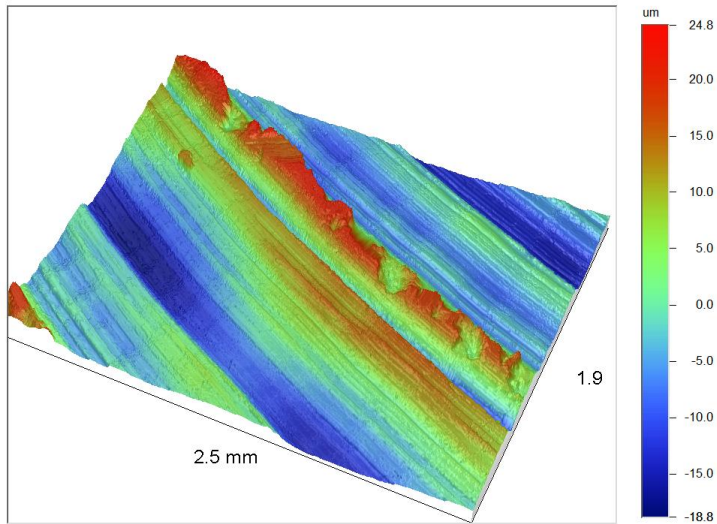
Measurement Info:

Magnification: 2.51

Measurement Mode: VSI

Sampling: 3.34 um

Array Size: 736 X 480

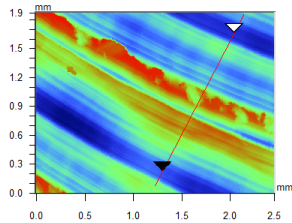


Title:

Note:

2 Point Profile

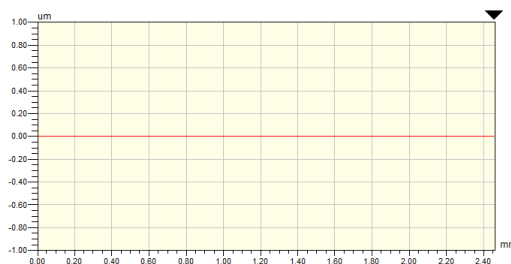
X: 1.6222 mm



Rq	7.45 um
Ra	6.23 um
Rt	29.21 um
Rp	15.23 um
Rv	-13.98 um

Angle	-2.02 mrad
Curve	-18.91 mm
Terms	None
Avg Ht	1.31 um
Area	2123.27 um2

(Inactive)



Rq	0.00 um
Ra	0.00 um
Rt	0.00 um
Rp	0.00 um
Rv	0.00 um

Angle	0.00 mrad
Curve	0.00 mm
Terms	None
Avg Ht	0.00 um
Area	0.00 um2

	Delta
X	1.22 2.15 0.92 mm
Y	0.08 1.86 1.78 mm
Ht	2.19 -3.34 -5.52 um
Dist	2.01 mm
Angle	62.63 °

Title:

Note:

Figura 17 – fz = 0,380 mm/z, medida 2

Surface Statistics:

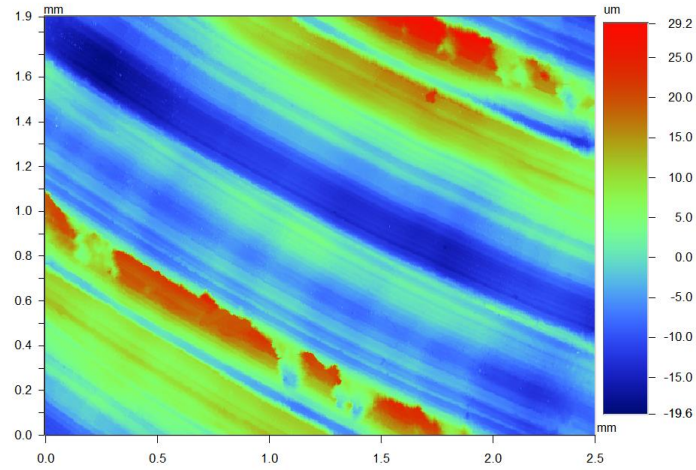
Ra: 7.09 um
Rq: 8.83 um
Rz: 47.72 um
Rt: 48.77 um

Set-up Parameters:

Size: 736 X 480
Sampling: 3.34 um

Processed Options:

Terms Removed:
Tilt
Filtering:
None



Title:

Note:

3-Dimensional Interactive Display

Surface Stats:

Ra: 7.09 um

Rq: 8.83 um

Rt: 48.77 um

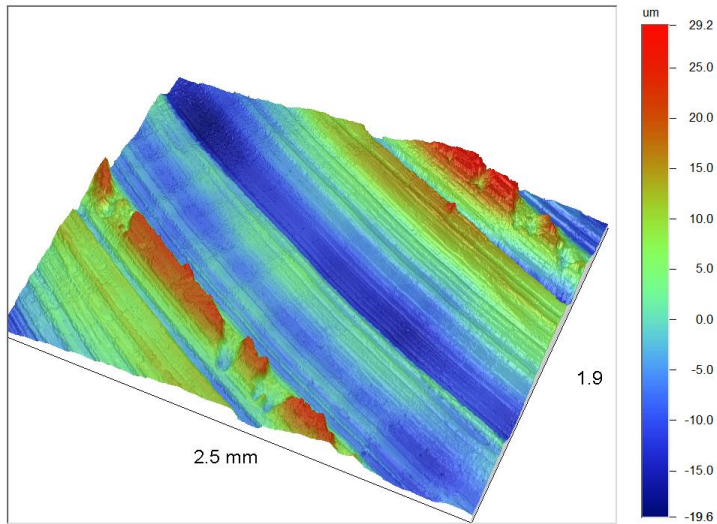
Measurement Info:

Magnification: 2.51

Measurement Mode: VSI

Sampling: 3.34 um

Array Size: 736 X 480

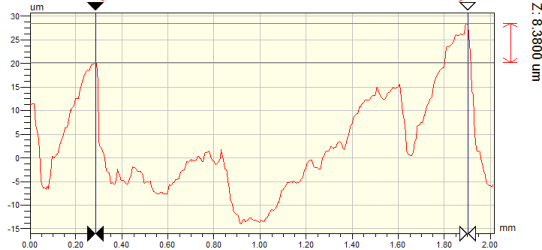
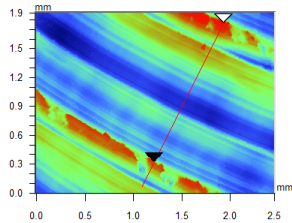


Title:

Note:

2 Point Profile

X: 1.6191 mm

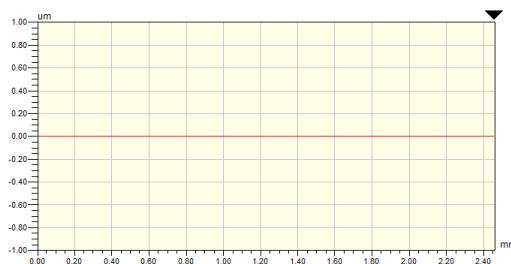


Rq	10.31 um
Ra	8.28 um
Rt	42.34 um
Rp	28.39 um
Rv	-13.95 um

Angle	5.19 mrad
Curve	17.50 mm
Terms	None
Avg Ht	1.65 um
Area	2664.22 um2

(Inactive)

Delta			
X	1.09	-	mm
Y	0.07	-	mm
Ht	11.33	-	um
Dist	-	-	mm
Angle	-	-	°



Rq	0.00 um
Ra	0.00 um
Rt	0.00 um
Rp	0.00 um
Rv	0.00 um

Angle	0.00 mrad
Curve	0.00 mm
Terms	None
Avg Ht	0.00 um
Area	0.00 um2

Title:

Note:

Figura 18 – fz = 0,380 mm/z, medida 3