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LAMPIRAN



**Key Word**

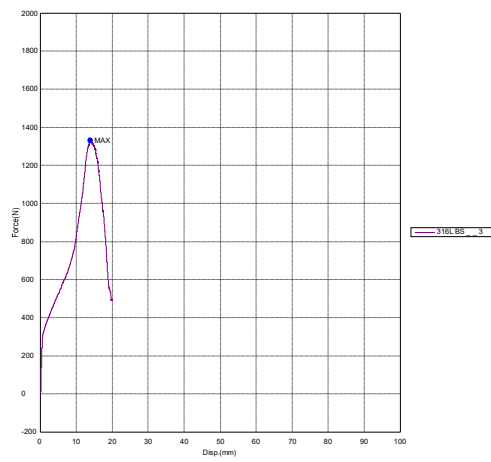
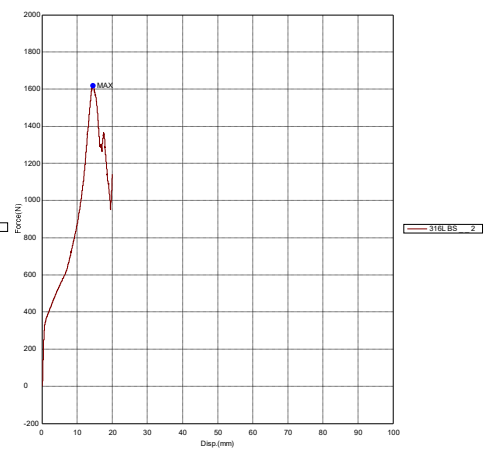
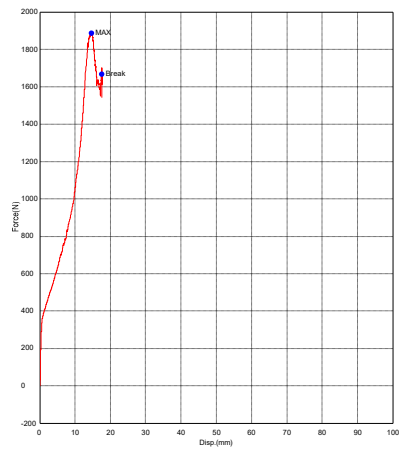
Test File Name 316L BS.Itax
 Report Date 2213/01/04
 Test Type 3 Point Bend
 Shape Plate
 Qty/Batch: 3

Product Name

Method File Name FRICTION BENDING.Ima
 Test Date 2213/01/04
 Speed 1 mm/min
 No of Batches: 1

Name	Thickness	Width	Lower_Support
Unit	mm	mm	mm
316L BS _	2.1000	5.0800	60.0000
316L BS _	2.1000	5.0800	60.0000
316L BS _	2.1000	5.0800	60.0000

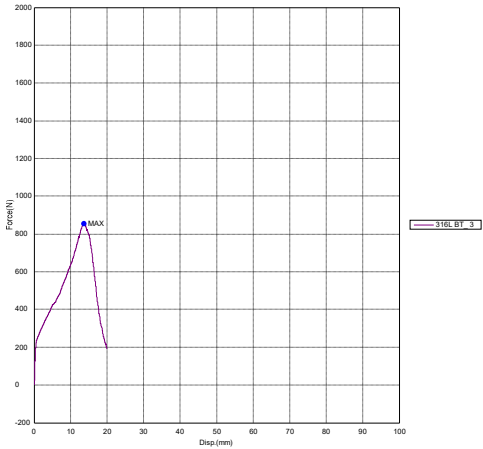
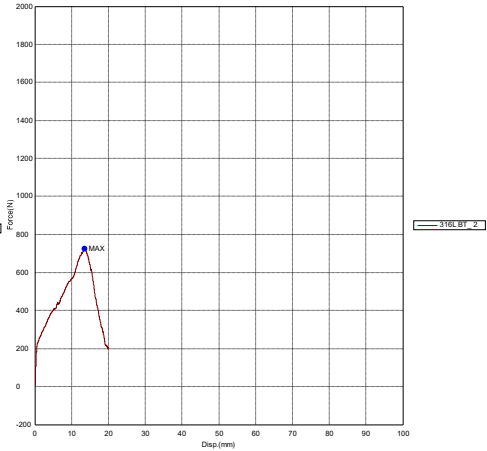
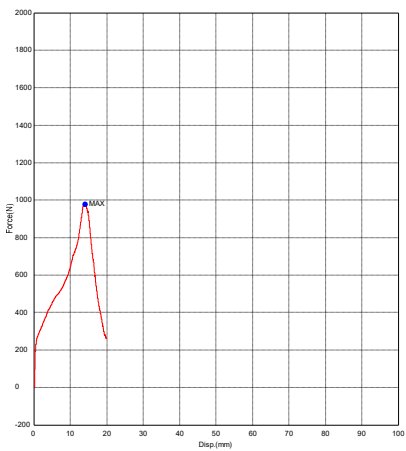
Name	Max_Force	Max_Displ.	Break_Force	Break_Displ.
Parameters	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10	Sensitivity 10
Unit	N	mm	N	mm
316L BS _	1887.90	146837	1668.05	17.6004
316L BS _	1619.53	145174	--	--
316L BS _	1330.12	138649	--	--



Key Word		Product Name	
Test File Name	316L_BT.txt	Method File Name	FRICTION BENDING3.lnk
Report Date	2213/01/04	Test Date	2213/01/04
Test Type	3 Point Bend	Speed	1mm/min
Shape	Plate	No of Batches	1
Qty/Batch	3		

Name	Thickness	Width	Lower_Support
Unit	mm	mm	mm
316L_BT_1	2.1000	5.0800	60.0000
316L_BT_2	2.1000	5.0800	60.0000
316L_BT_3	2.1000	5.0800	60.0000

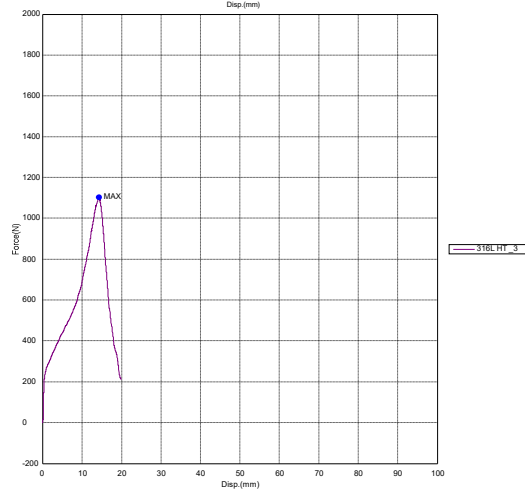
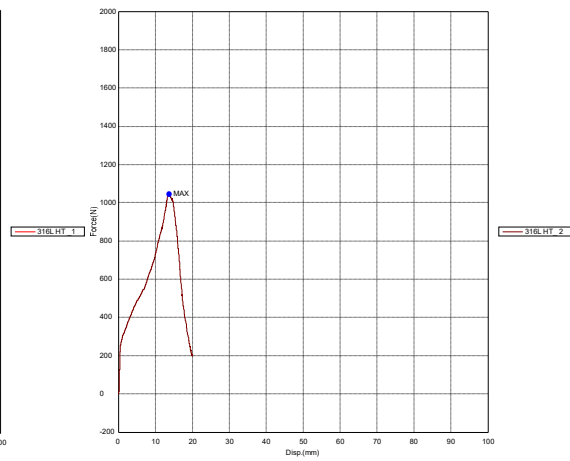
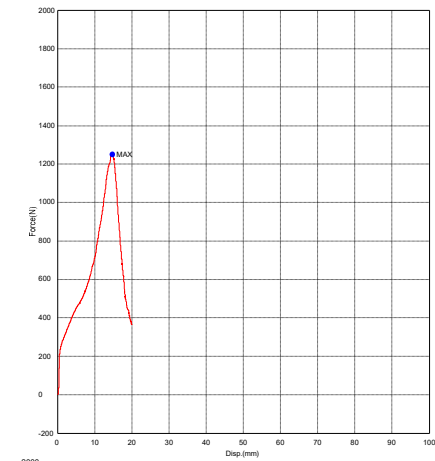
Name	Max_Force	Max_Displ	Break_Force	Break_Displ
Parameters	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10	Sensitivity 10
Unit	N	mm	N	mm
316L_BT_1	977.734	14.0511	---	---
316L_BT_2	724.558	13.5200	---	---
316L_BT_3	855.485	13.6179	---	---



Key Word		Product Name	
Test File Name	316L HT.hx	Method File Name	FRICTION BENDING.Dmg
Report Date	2212/01/04	Test Date	2212/01/04
Test Type	3 Point Bend	Speed	1mm/min
Shape	Plate	No of Batches	1
Qty/Batch	3		

Name	Thickness	Width	Lower Support
Unit	mm	mm	mm
316L HT_1	2.0000	5.0800	28.0000
316L HT_2	2.0000	5.0800	28.0000
316L HT_3	2.0000	5.0800	28.0000

Name	Max_Force	Max_Disp.	Break_Force	Break_Disp.
Parameters	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10	Sensitivity 10
Unit	N	mm	N	mm
316L HT_1	1242.55	14.7379	---	---
316L HT_2	1045.83	13.7243	---	---
316L HT_3	1102.34	14.2852	---	---



Key Word		Product Name	
Test File Name	304S ok Itax	Method File Name	FRICTION BENDING.lma
Report Date	2213/01/03	Test Date	2213/01/03
Test Type	3 Point Bend	Speed	1mm/min
Shape	Plate	No of Batches:	1
Qty/Batch:	3		

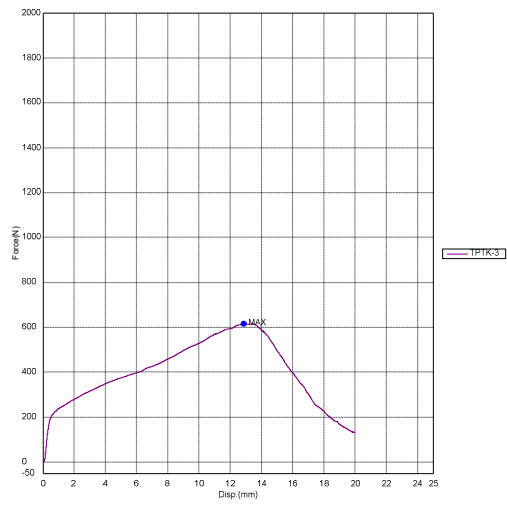
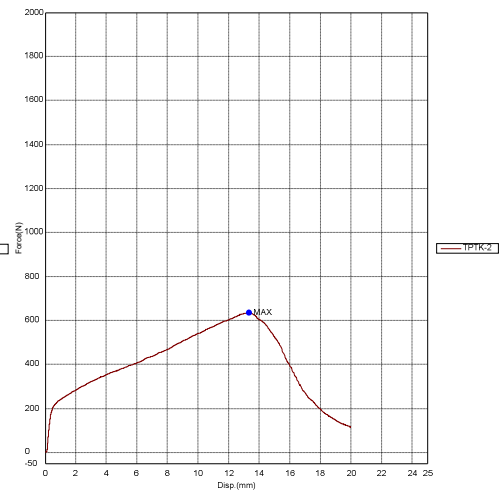
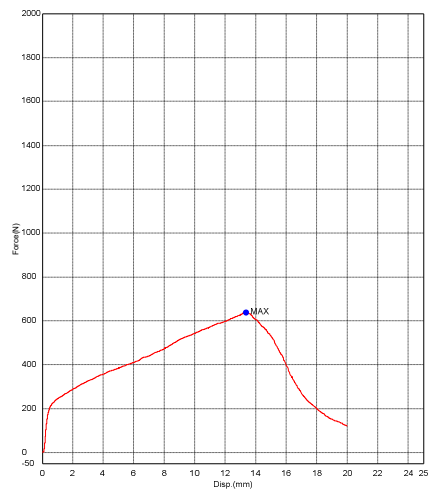
Name	Thickness	Width	Lower_Support
Unit	mm	mm	mm
304 s _1	2.0000	5.0800	28.0000
304 s _2	2.0000	5.0800	28.0000
304 s _3	2.0000	5.0800	28.0000

Name	Max_Force	Max_Displ.	Break_Force	Break_Displ.
Parameters	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10	Sensitivity 10
Unit	N	mm	N	mm
304 s _1	713.795	13.4071	--	--
304 s _2	727.490	13.5695	--	--
304 s _3	806.588	13.5647	--	--

Key Word		Product Name	
Test File Name	SS 304 TPTK-1.ltax	Method File Name	FRICTION BENDING.lma
Report Date	2219/01/01	Test Date	2213/01/01
Test Type	3 Point Bend	Speed	1mm/min
Shape	Plate	No of Batches:	1
Qty/Batch:	3		

Name	Thickness	Width	Lower_Support
Unit	mm	mm	mm
TPTK-1	2.0000	5.0800	28.0000
TPTK-2	2.0000	5.0800	28.0000
TPTK-3	2.0000	5.0800	28.0000

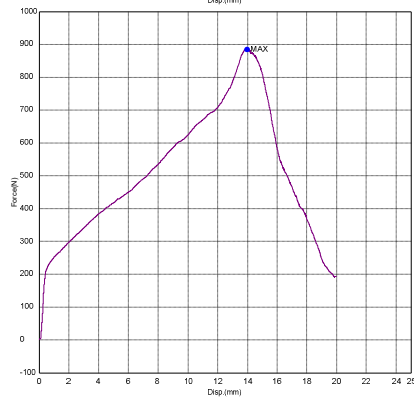
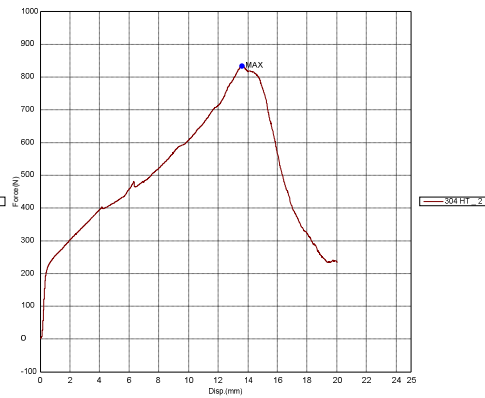
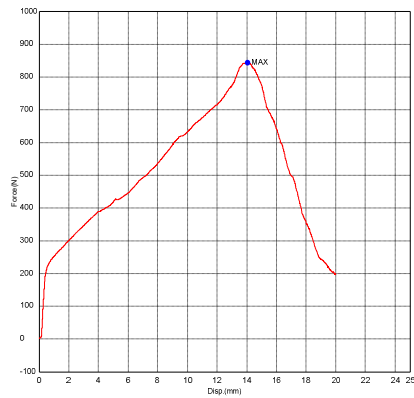
Name	Max_Force	Max_Displ.	Tegangan	kekakuan bending
Parameters	Calc. at Entire Area	Calc. at Entire Area		
Unit	N	mm	N/mm ²	N/mm ²
TPTK-1	637.814	10.8827	82.7573	1317.90
TPTK-2	634.866	10.8217	82.4867	1312.20
TPTK-3	616.689	12.6639	80.8823	1274.55

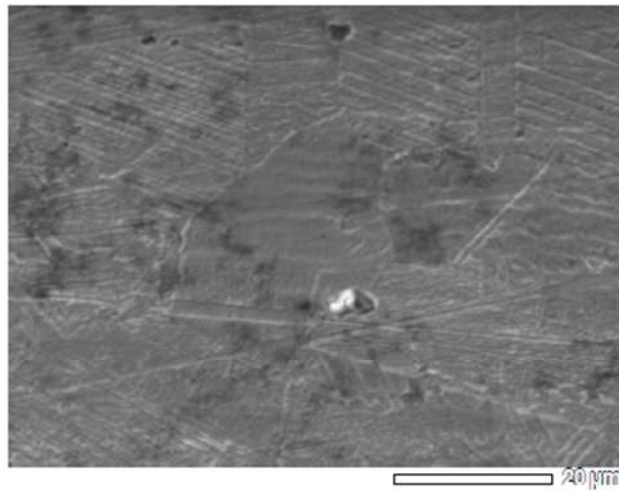


Key Word		Product Name	
Test File Name	304 h.tax	Method File Name	FRICTION BENDING.lme
Report Date	2219/01/08	Test Date	2219/01/08
Test Type	3 Point Bend	Speed	1mm/min
Shape	Plate	No of Batches	1
Qty/Batch	3		

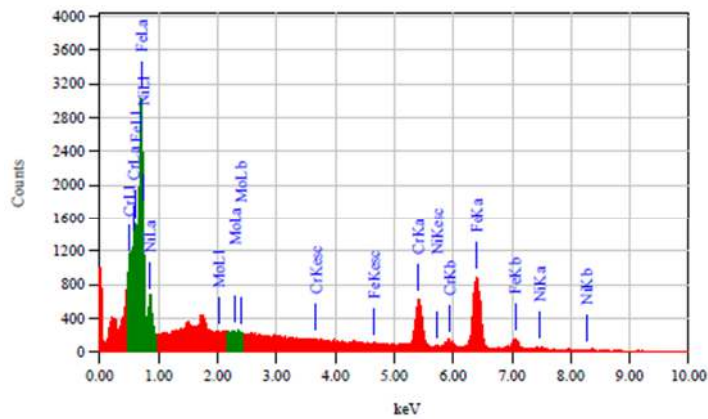
Name	Thickness	Width	Lower Support
Unit	mm	mm	mm
304 HT _1	2.0000	5.0800	28.0000
304 HT _2	2.0000	5.0800	28.0000
304 HT _3	2.0000	5.0800	28.0000

Name	Max_Force	Max_Disp.	Break_Force	Break_Disp.
Parameters	Calc. at Entire Area	Calc. at Entire Area	Sensitivity 10	Sensitivity 10
Unit	N	mm	N	mm
304 HT _1	848.209	14.0862	--	--
304 HT _2	838.719	13.8662	--	--
304 HT _3	864.958	13.8662	--	--





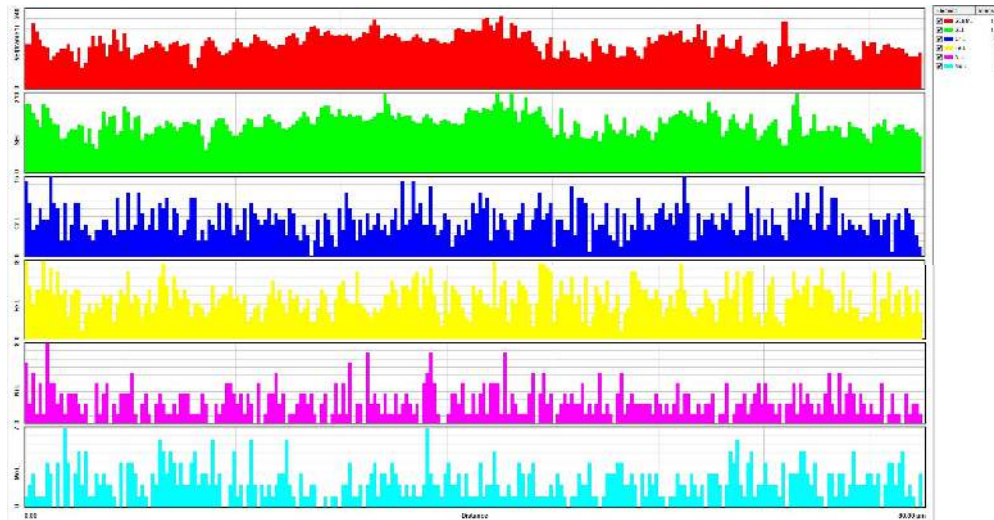
Title : IMG1
 Instrument : JCM-6000PLUS
 Volt : 10.00 kV
 Mag. : x 1,500
 Date : 2023/09/05
 Pixel : 512 x 254



Acquisition Parameter
 Instrument : JCM-6000PLUS
 Acc. Voltage : 10.0 kV
 Probe Current : 1.00000 nA
 FEA mode : T3
 Real Time : 50.58 sec
 Live Time : 50.00 sec
 Dead Time : 1 %
 Counting Rate : 3759 cps
 Energy Range : 0 - 20 keV

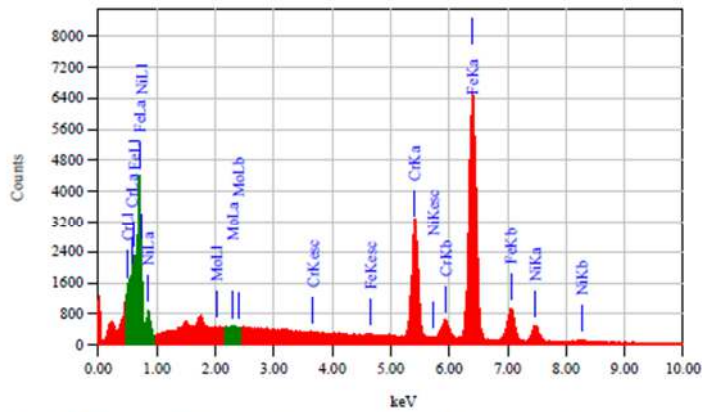
Thin Film Standardless Standardless Quantitative Analysis(Oxide)
 Fitting Coefficient : 0.1059
 Total Oxide : 24.0

Element	(keV)	Mass%	Counts	Sigma	Mol%	Compound	Mass%	Cation	K
O		24.06					ND		
Cr	0.573	15.94	4776.41	0.66	12.61	Cr2O3	23.20	4.82	1.3677
Fe	0.705 (Ref.)	52.03	21219.41	0.64	76.66	FeO	66.93	14.68	1.0000
Ni	0.851	7.63	3209.18	0.24	10.49	H2O	9.71	2.05	0.9728
Mo	2.292	0.04	15.97	0.17	0.04	MoO3	0.06	0.01	1.0868
Total		100.00			100.00		100.00	21.57	





Title : IMG1
 Instrument : JCM-6000PLUS
 Volt : 15.00 kV
 Mag. : x 1,500
 Date : 2023/09/05
 Pixel : 512 x 384

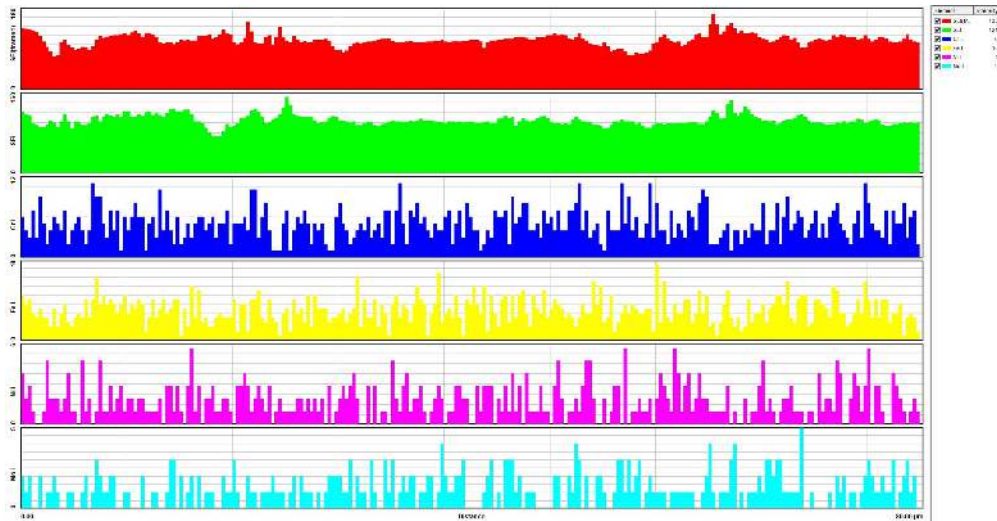


Acquisition Parameter
 Instrument : JCM-6000PLUS
 Acc. Voltage : 15.0 kV
 Probe Current : 1.00000 nA
 PMA mode : T3
 Real Time : 51.97 sec
 Live Time : 50.00 sec
 Dead Time : 3 %
 Counting Rate : 9694 cps
 Energy Range : 0 - 20 keV

Thin Film Standardless Standardless Quantitative Analysis(Oxide)
 Fitting Coefficient : 0.0331

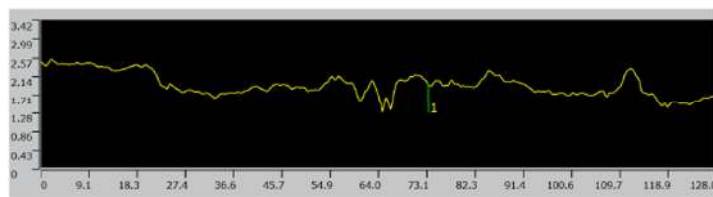
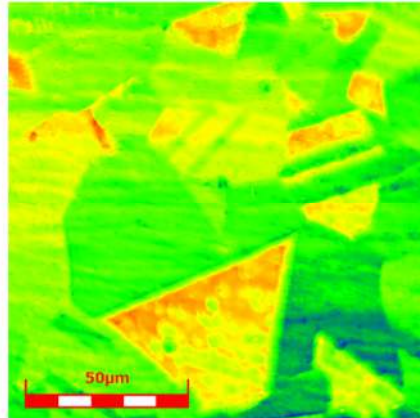
Total Oxide : 24.0

Element	(keV)	Mass%	Counts	Sigma	Mol%	Compound	Mass%	Cation	K
O		24.29				ND			
Cr	0.578	15.09	6290.95	0.55	11.87	Cr2O3	22.06	4.59	1.3810
Fe	0.708	59.42	30751.73	0.55	78.23	FeO	68.73	15.12	1.0000
Ni	0.851	6.96	4157.10	0.19	9.70	NiO	8.86	1.85	0.9640
Mo	2.298	0.23	128.59	0.16	0.20	MoO3	0.35	0.04	0.9693
Total		100.00			100.00		100.00	21.63	



LEXT

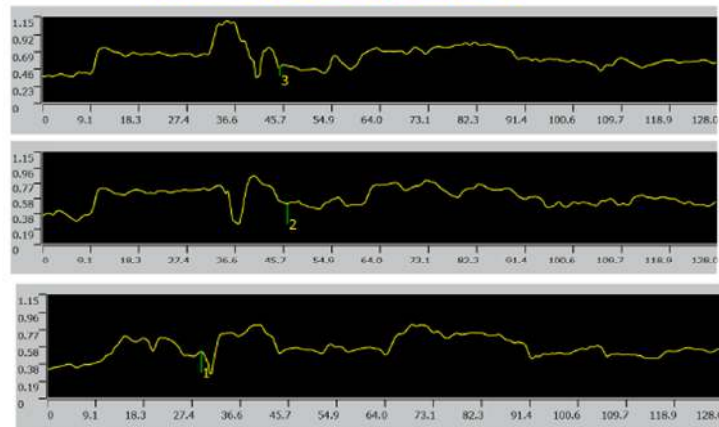
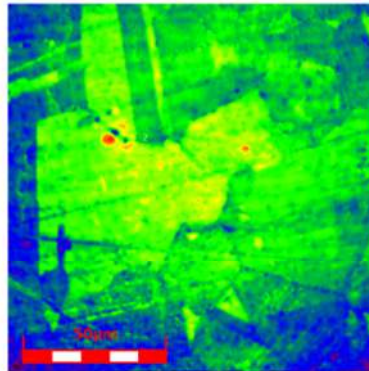
BM 304 CS-1



No.	Result	Length[µm]	File name
☒	1	0.688	BM 304 CS_1

LEXT

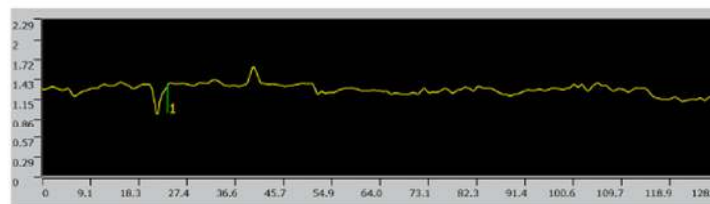
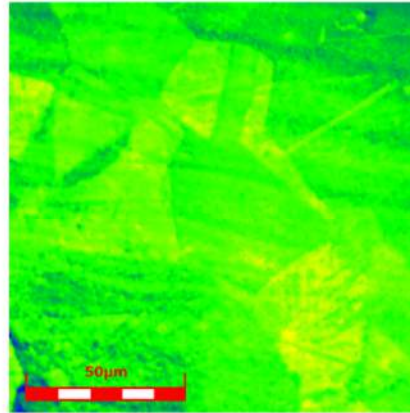
beban termal 304-3



No.	Result	Length[μm]	File name
☒	1	0.232	beban termal 304 -3
☒	2	0.249	beban termal 304 -3
☒	3	0.145	beban termal 304 -3

LEXT

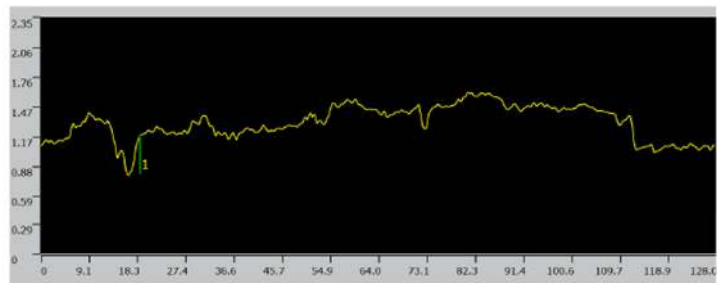
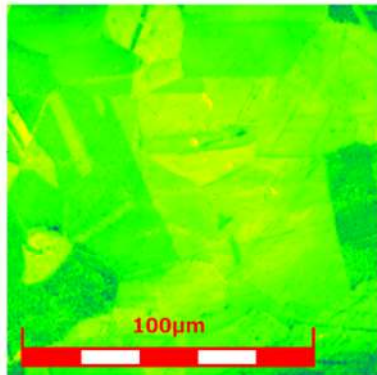
Heat treatment SS304-1



No.	Result	Length[µm]	File name
1	1	0.403	Heat Treatment SS304_1

LEXT

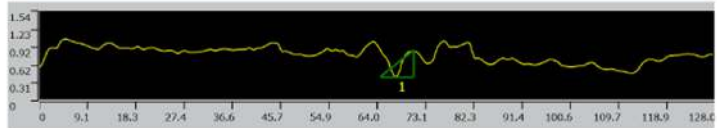
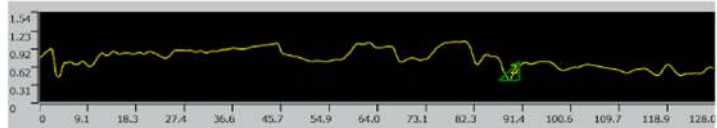
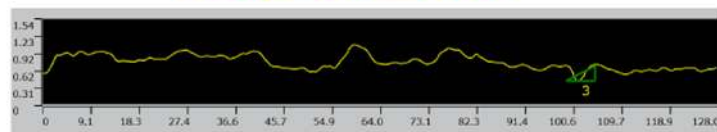
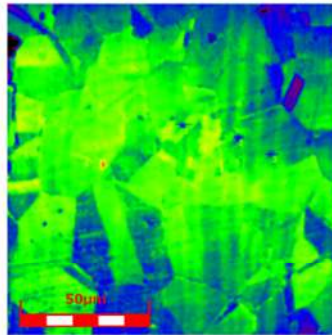
base material 316L-3



No.	Result	Length[μm]	File name
1	1	0.390	base material 316L-3

LEXT

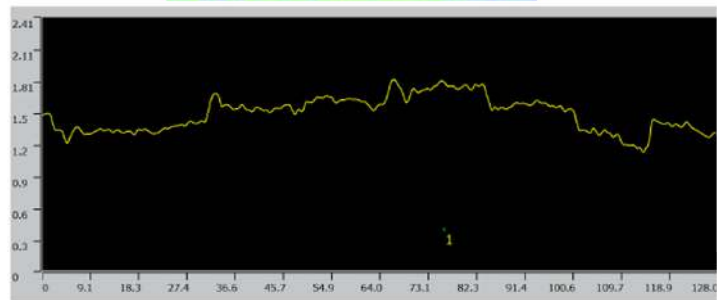
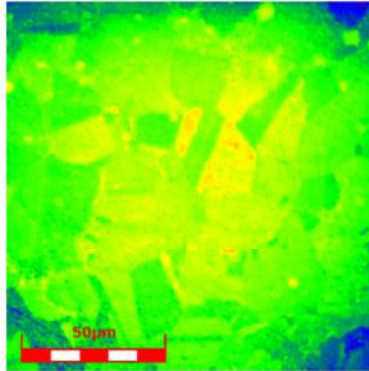
beban thermal cs 316L-3



No.	Result	Width[µm]	Height[µm]	Length[µm]	Angle[°]	File name
☒	1	6.329	0.465	6.346	4.205	beban termal cs 316L-3
☒	2	3.827	0.326	3.841	4.866	beban termal cs 316L-3
☒	3	5.495	0.264	5.502	2.749	beban termal cs 316L-3

1/1

10/16/2023

LEXT**Heat treatment 316L-1**

No.	Result	Length[μm]	File name
☒	1	0.036	Heat Treatment 316L_1