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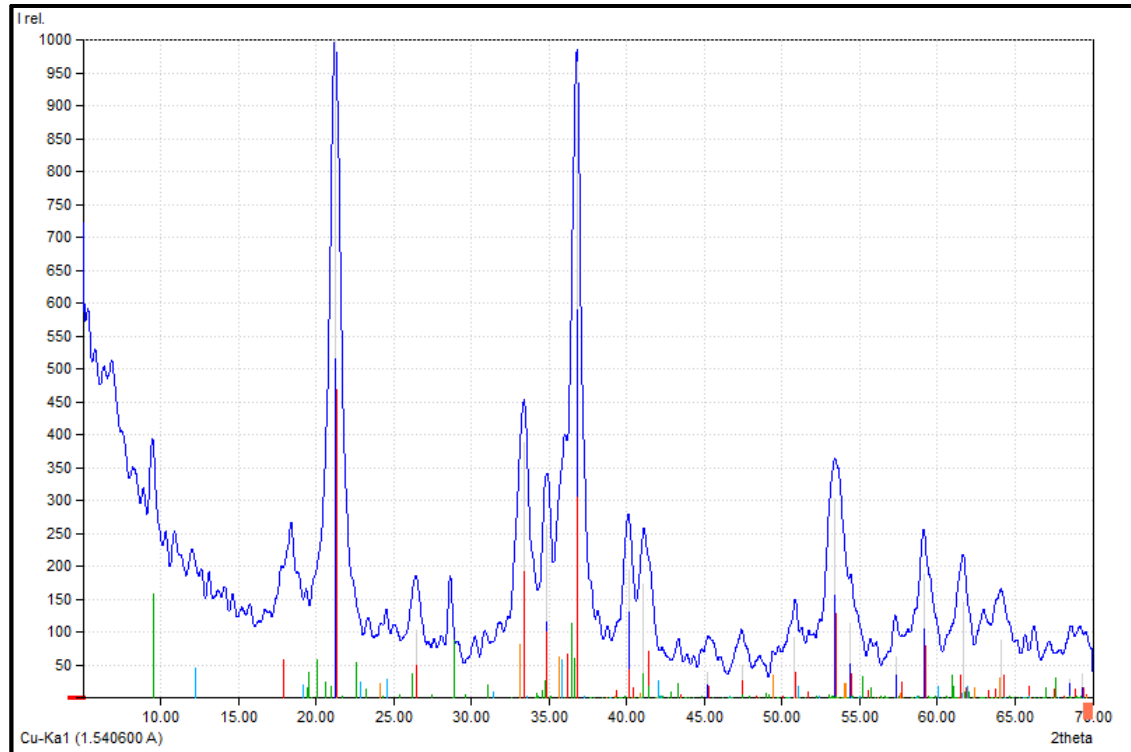
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LAMPIRAN

LAMPIRAN A
HASIL ANALISIS XRD

1. Sampel Awal

Index	Amount (%)	Name	Formula sum
A	44.4	Goethite	Fe H O2
B	36.9	Talc	H2 Mg3 O12 Si4
C	10.7	Lizardite	H4 Mg3 O9 Si2
D	8.1	hematite	Fe2 O3



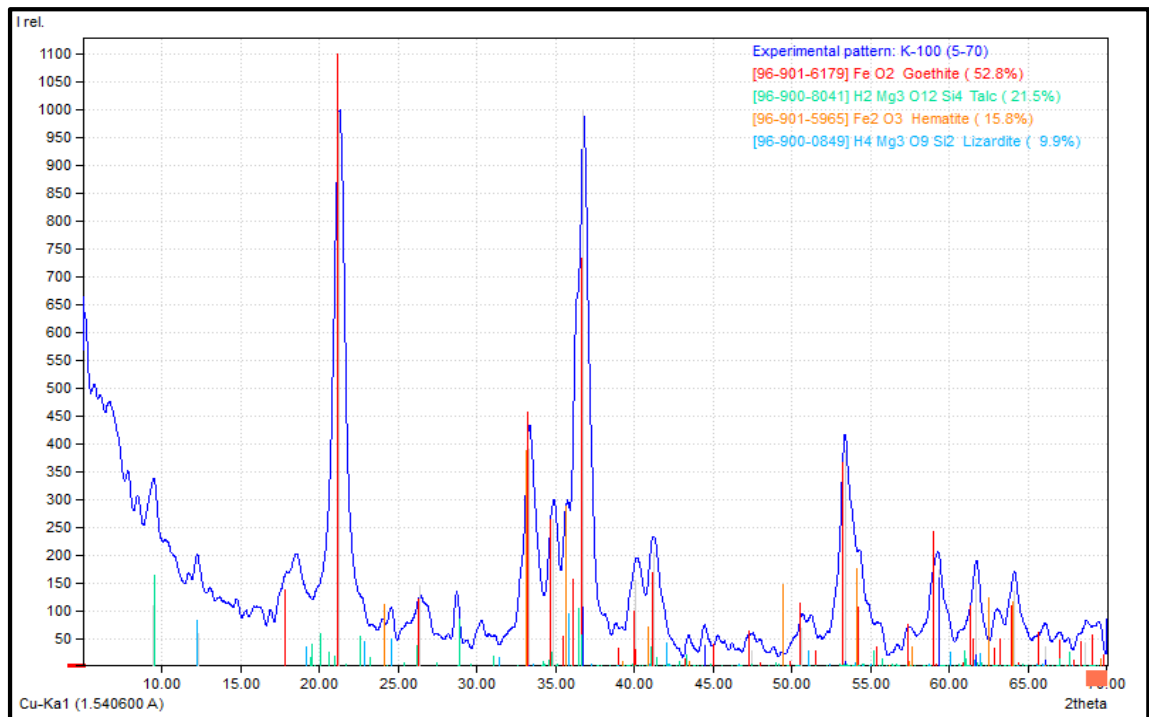
Peak List

No.	2theta [°]	d [Å]	I/I0 (peak height)	Counts (peak area)	FWHM	Matched
1	9.54	9.2633	142.88	6.78	0.3307	B
2	21.24	4.1797	1000.00	109.07	0.7600	A,B,D
3	26.44	3.3683	102.93	1.77	0.1200	A,B
4	33.40	2.6806	388.53	26.76	0.4800	A,B,C,D
5	34.86	2.5716	262.08	12.04	0.3200	A,B
6	36.80	2.4404	966.40	77.66	0.5600	A,B
7	40.12	2.2457	195.03	1.12	0.0400	A,B
8	41.10	2.1944	173.24	2.98	0.1200	A,B,C,D
9	45.24	2.0028	39.40	3.82	0.6765	A
10	47.42	1.9157	49.09	3.54	0.5031	A,B
11	50.82	1.7952	93.47	7.29	0.5438	A,C,D
12	53.40	1.7144	302.61	1.74	0.0400	A,B,D
13	54.40	1.6852	113.68	0.65	0.0400	A,B,C
14	57.32	1.6061	62.07	3.74	0.4202	B,D
15	59.12	1.5614	187.57	2.15	0.0800	A
16	61.66	1.5030	146.19	8.39	0.4000	A,B,C
17	64.08	1.4520	89.11	2.05	0.1600	A,B,C,D
18	68.48	1.3690	27.70	2.76	0.6940	B
19	69.28	1.3552	36.97	3.68	0.6940	A,B

2. Sampel Setelah Pemanasan

a. Pemanasan dengan suhu 100°C

Index	Amount (%)	Name	Formula sum
A	52.8	Goethite	Fe O2
B	21.5	Talc	H2 Mg3 O12 Si4
C	15.8	Hematite	Fe2 O3
D	9.9	Lizardite	H4 Mg3 O9 Si2

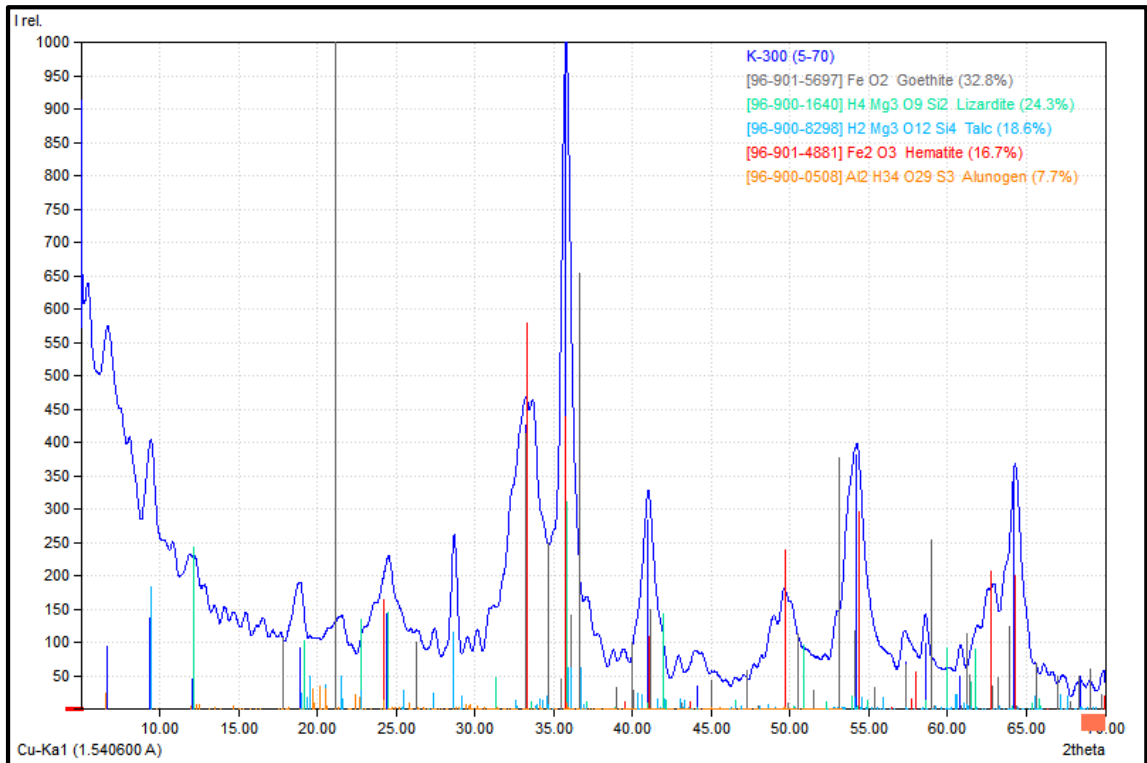


Peak List

No.	2theta [°]	d [Å]	I/I0	FWHM	Matched
1	9.50	9.3022	108.12	0.4245	B
2	12.30	7.1902	59.47	0.3148	D
3	21.24	4.1797	995.04	0.8178	A,B
4	24.54	3.6246	46.75	0.2903	B,D
5	26.42	3.3708	144.55	0.3800	A,B
6	33.30	2.6884	389.71	0.8405	A,B,C,D
7	34.88	2.5702	263.34	0.8405	A,B
8	36.76	2.4429	1000.00	0.8400	A,B
9	40.10	2.2468	153.73	1.1597	A,B
10	41.20	2.1893	203.06	1.1597	A,B,D
11	44.48	2.0352	39.14	1.1597	B
12	47.42	1.9157	28.26	1.1597	A,B
13	50.64	1.8011	67.30	1.1597	A,B,D
14	53.38	1.7150	387.61	0.9696	A,B
15	57.36	1.6051	33.38	0.9555	A,B,C
16	59.30	1.5571	172.09	0.9414	A,B
17	61.68	1.5026	156.61	0.9414	A,B,D
18	64.10	1.4516	134.46	0.9414	A,B,C,D
19	66.06	1.4132	33.49	0.9414	B,C,D
20	68.62	1.3666	42.47	0.9414	A,B

b. Pemanasan dengan suhu 300°C

Index	Amount (%)	Name	Formula sum
A	32.8	Goethite	Fe O2
B	24.3	Lizardite	H4 Mg3 O9 Si2
C	18.6	Talc	H2 Mg3 O12 Si4
D	16.7	Hematite	Fe2 O3
E	7.7	Alunogen	Al2 H34 O29 S3

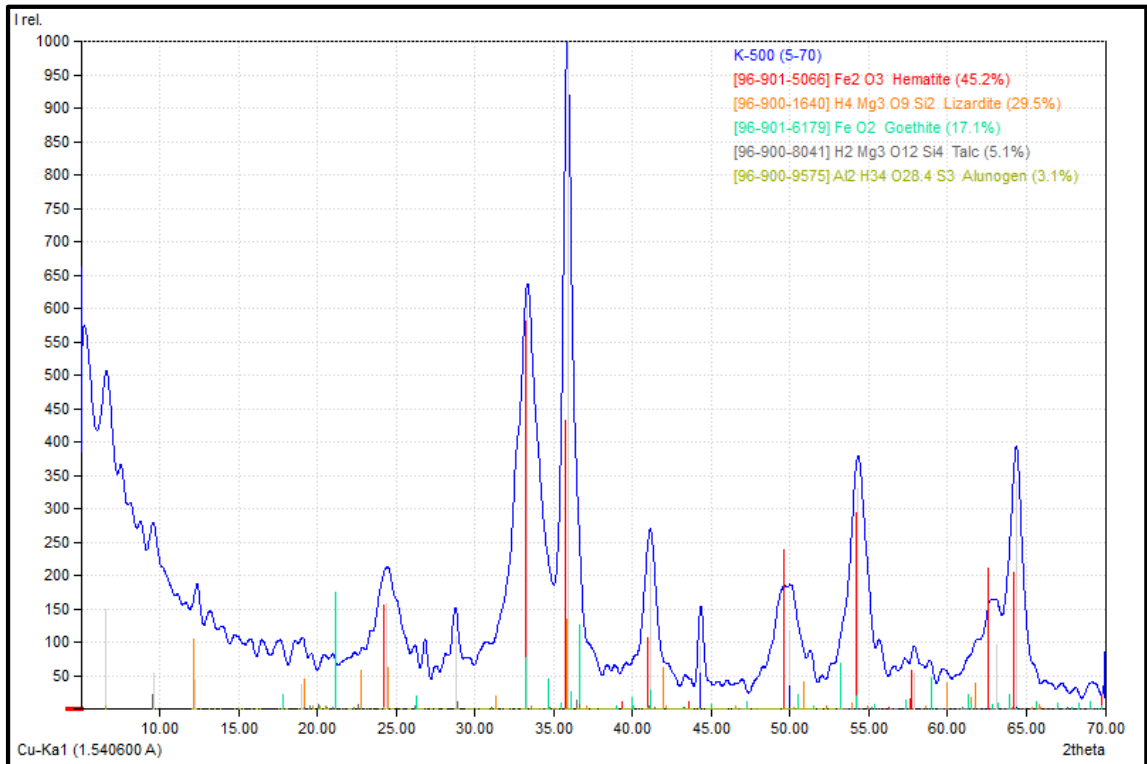


Peak List

No.	2theta [°]	d [Å]	I/I0 (peak height)	Counts (peak area)	FWHM	Matched
1	6.64	13.3011	95.34	11.97	1.0334	E
2	9.40	9.4010	137.22	6.66	0.3998	C
3	12.10	7.3086	45.38	4.51	0.8176	B,E
4	18.90	4.6916	91.89	6.61	0.5926	B,C,E
5	21.32	4.1642	2.96	0.12	0.3213	A,C,E
6	24.44	3.6392	144.34	19.47	1.1105	B,D,E
7	33.24	2.6931	426.30	126.84	2.4493	A,D,E
8	35.72	2.5116	1000.00	92.22	0.7592	A,B,C,D,E
9	40.98	2.2006	283.51	31.08	0.9025	A,B,C,D,E
10	44.14	2.0501	36.10	2.97	0.6781	C,E
11	49.72	1.8323	137.41	25.74	1.5418	A,C,D,E
12	54.18	1.6915	381.25	71.41	1.5418	A,B,C,D
13	57.32	1.6061	72.11	13.50	1.5418	A,C
14	58.64	1.5730	98.11	18.38	1.5418	B,C
15	60.80	1.5222	50.53	9.46	1.5418	A,C
16	62.78	1.4789	145.97	27.34	1.5418	A,C,D
17	64.22	1.4492	349.59	65.48	1.5418	A,B,C,D
18	68.42	1.3701	49.07	9.19	1.5418	A,C

c. Pemanasan dengan suhu 500°C

Index	Amount (%)	Name	Formula sum
A	45.2	Hematite	Fe ₂ O ₃
B	29.5	Lizardite	H ₄ Mg ₃ O ₉ Si ₂
C	17.1	Goethite	FeO ₂
D	5.1	Talc	H ₂ Mg ₃ O ₁₂ Si ₄
E	3.1	Alunogen	Al ₂ H ₃₄ O _{28.4} S ₃

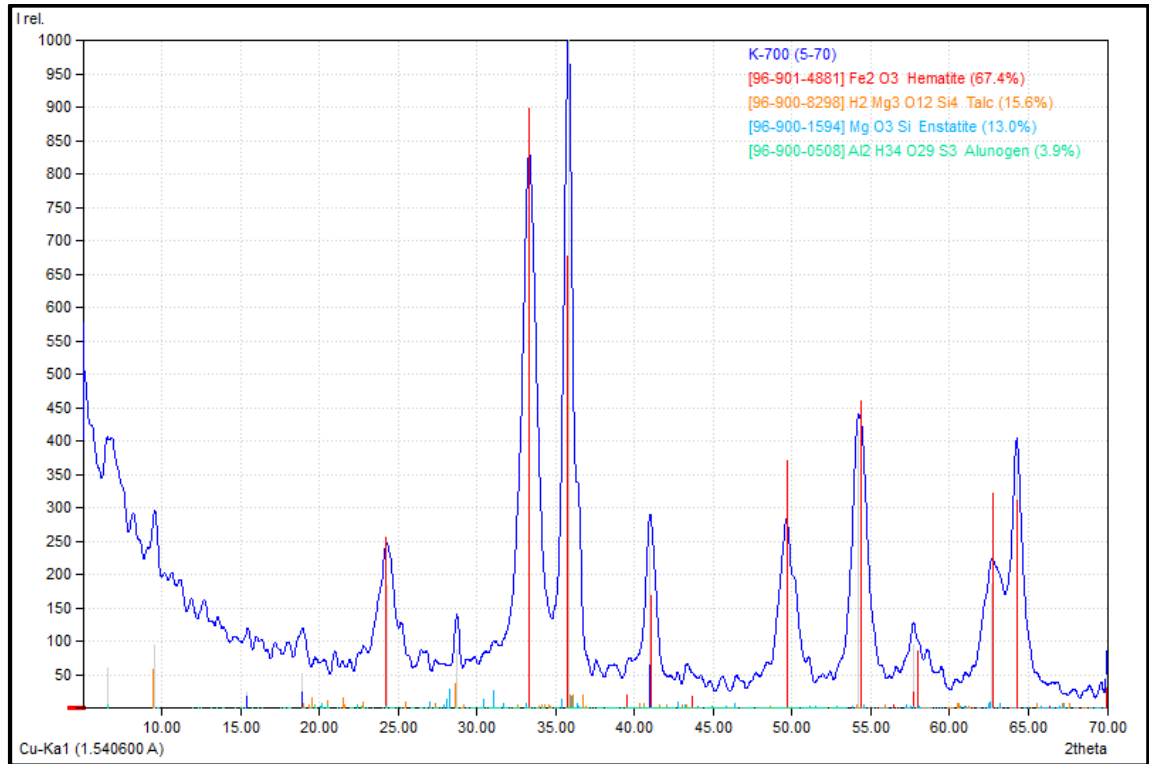


Peak List

No.	2theta [°]	d [Å]	I/I ₀ (peak height)	Counts (peak area)	FWHM	Matched
1	6.60	13.3816	149.58	16.51	0.7600	E
2	9.60	9.2055	54.95	3.29	0.4123	D,E
3	12.28	7.2019	43.09	2.35	0.3751	B,E
4	18.98	4.6720	36.73	4.89	0.9168	B,D,E
5	24.44	3.6392	159.47	15.75	0.6800	A,B,D,E
6	28.78	3.0995	109.58	0.64	0.0400	D,E
7	33.32	2.6869	624.19	94.29	1.0400	A,B,C,D,E
8	35.88	2.5008	1000.00	81.34	0.5600	A,B,C,D,E
9	41.14	2.1924	220.56	5.13	0.1600	A,B,C,D,E
10	44.34	2.0413	95.34	1.66	0.1200	D,E
11	49.64	1.8351	128.32	4.47	0.2400	A,D,E
12	49.98	1.8234	118.76	2.07	0.1200	B,C,D,E
13	54.32	1.6875	331.41	23.11	0.4800	A,B,C,D
14	57.86	1.5924	54.93	4.72	0.5915	A,D
15	63.08	1.4726	96.49	1.68	0.1200	C,D
16	64.36	1.4464	341.50	29.76	0.6000	A,B,C,D

d. Pemanasan dengan suhu 700°C

Index	Amount (%)	Name	Formula sum
A	67.4	Hematite	Fe ₂ O ₃
B	15.6	Talc	H ₂ Mg ₃ O ₁₂ Si ₄
C	13.0	Enstatite	Mg ₃ O ₃ Si
D	3.9	Alunogen	Al ₂ H ₃₄ O ₂₉ S ₃

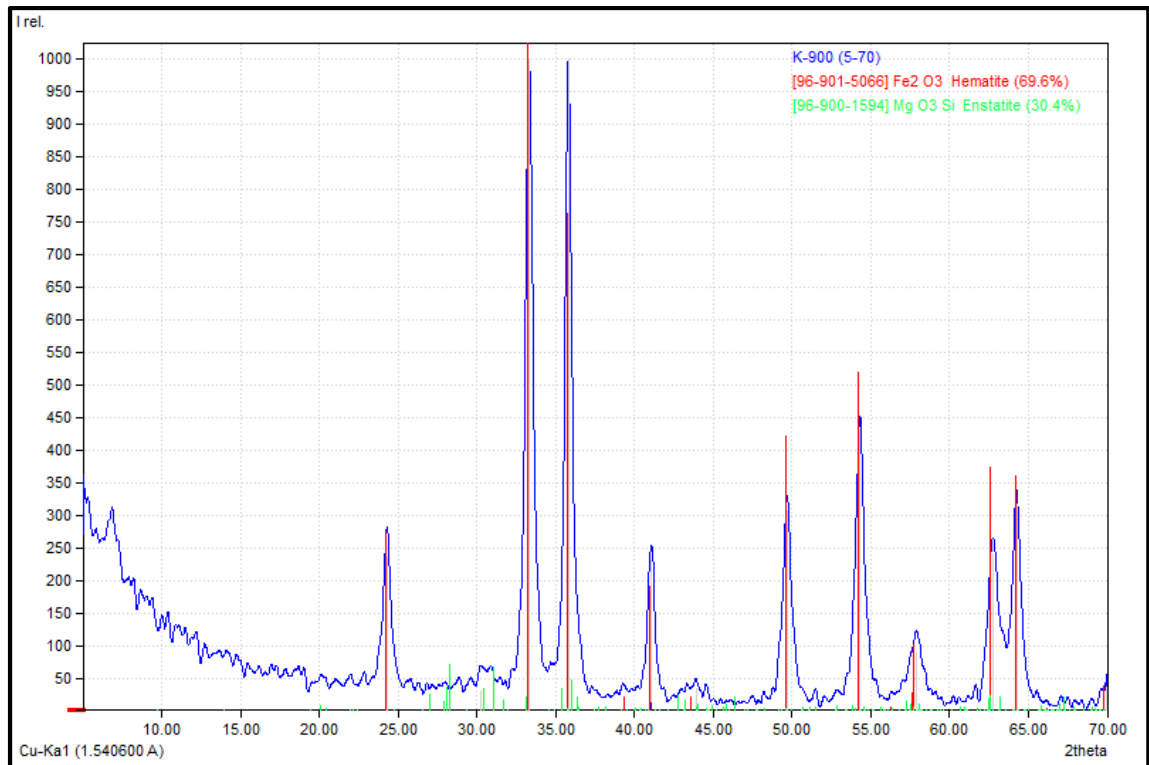


Peak List

No.	2theta [°]	d [Å]	I/I0 (peak height)	Counts (peak area)	FWHM	Matched
1	6.60	13.3816	60.83	16.20	1.7177	D
2	9.58	9.2247	94.77	4.77	0.3245	B,C,D
3	15.38	5.7565	23.51	1.21	0.3321	D
4	18.90	4.6916	51.53	3.81	0.4770	B,D
5	24.28	3.6628	184.02	11.41	0.4000	A,D
6	28.70	3.1080	88.83	4.09	0.2970	B,D
7	33.32	2.6869	824.64	112.52	0.8800	A,C,D
8	35.80	2.5062	1000.00	93.03	0.6000	A,B,C,D
9	41.00	2.1996	241.56	13.48	0.3600	A,B,C,D
10	49.66	1.8344	243.09	18.09	0.4800	A,B,C,D
11	54.22	1.6904	415.66	48.98	0.7600	A,B,C
12	57.72	1.5959	94.56	16.36	1.1158	A,B,C
13	62.66	1.4814	186.87	22.02	0.7600	A,B,C
14	64.26	1.4484	381.56	26.03	0.4400	A,B,C
15	69.98	1.3433	49.94	0.79	0.1019	A,C

e. Pemanasan dengan suhu 900°C

Index	Amount (%)	Name	Formula sum
A	69.6	Hematite	Fe ₂ O ₃
B	30.4	Enstatite	MgO·3SiO ₂



Peak List


No.	2theta [°]	d [Å]	I/I ₀ (peak height)	Counts (peak area)	FWHM	Matched
1	24.30	3.6599	234.62	23.31	0.4400	A
2	30.22	2.9550	30.23	4.22	0.6187	B
3	33.32	2.6869	1000.00	99.36	0.4400	A,B
4	35.80	2.5062	999.35	81.25	0.3600	A,B
5	41.10	2.1944	229.66	20.75	0.4000	A,B
6	43.94	2.0590	34.48	5.41	0.6946	B
7	49.70	1.8330	305.24	24.82	0.3600	A,B
8	54.32	1.6875	431.46	46.77	0.4800	A,B
9	57.88	1.5919	87.30	6.31	0.3200	A,B
10	62.74	1.4797	240.30	23.88	0.4400	A,B
11	64.26	1.4484	315.78	22.82	0.3200	A,B
12	69.94	1.3440	36.86	6.91	0.8297	A,B

LAMPIRAN B
HASIL ANALISIS XRF

1. Sampel Awal

2022/ 6/10 14:39


Analyzed Result (Multi - Land)											
Analysis type : Quant analysis						Analysis date : 2022- 6-10 14:19					
Analysis code : Nikel Ore											
No. Sample name	Ni	Co	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	MnO	Cr2O3
	mass%	mass%	mass%	mass%	mass%	mass%	mass%	mass%	mass%	mass%	mass%
1 ANALISIS A	1.132	0.113	8.529	5.487	63.589	0.087	2.688	0.023	0.010	1.073	2.286
2 ANALISIS A	1.130	0.117	8.428	5.502	63.519	0.072	2.576	0.023	0.010	1.057	2.274
Number	2	2	2	2	2	2	2	2	2	2	2
Average	1.131	0.115	8.478	5.494	63.554	0.080	2.632	0.023	0.010	1.065	2.280
Range	0.002	0.003	0.101	0.015	0.071	0.015	0.112	0.000	0.000	0.016	0.011
RSD(%)	0.10	2.05	0.84	0.19	0.08	13.59	3.00	0.05	0.19	1.05	0.35



Sambungan Lampiran Sampel Awal

2022/ 6/10 14:39

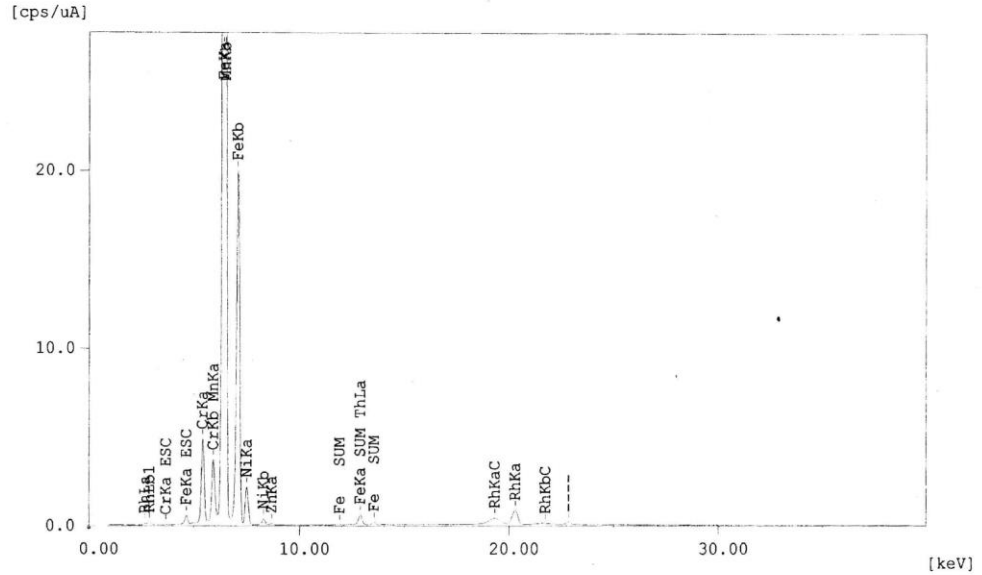
Analyzed Result (Multi - Land)						
Analysis type : Quant analysis			Analysis date : 2022- 6-10 14:19			
Analysis code : Nikel Ore						
No. Sample name	TiO2 mass%	P2O5 mass%	SO3 mass%	CuO mass%	ZnO mass%	Li2B4O7
1 ANALISIS A	0.033	0.010	0.010	0.000	0.000	20.000
2 ANALISIS A	0.036	0.010	0.010	0.000	0.000	20.000
Number	2	2	2	2	2	2
Average	0.035	0.010	0.010	0.000	0.000	20.000
Range	0.003	0.000	0.000	0.000	0.000	0.000
RSD(%)	6.04	0.21	0.00	0.00	0.00	0.00



2. Sampel Tanpa Pemanasan Hasil Pemisahan Magnetik Separator

a. Konsentrat

Sample : NO-K-KONSENTRAT
 Operator: Akmal
 Comment : Quick&easy Air-Metal
 Group : easy-oxide
 Date : 2022-07-29 10:45:18

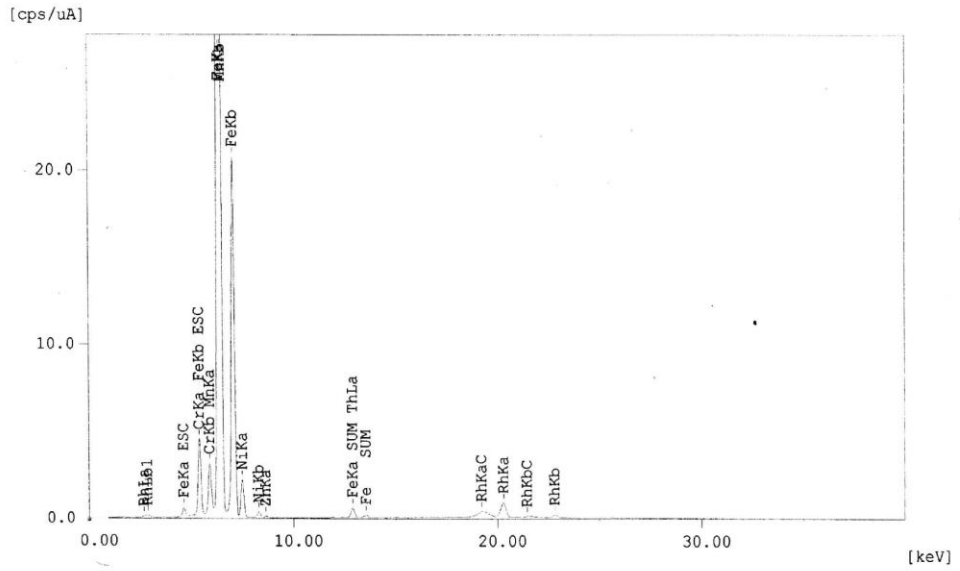


Quantitative Result

Analyte	Result	[3-sigma]	Proc.-Calc.	Line	Int. (cps/uA)
Fe2O3	86.225 %	[0.199]	Quan-FP	FeKa	1151.7704
SiO2	6.492 %	[0.494]	Quan-FP	SiKa	0.1025
NiO	2.654 %	[0.046]	Quan-FP	NiKa	18.8330
Cr2O3	2.372 %	[0.029]	Quan-FP	CrKa	38.1797
MnO	1.582 %	[0.021]	Quan-FP	MnKa	23.0148
SO3	0.557 %	[0.073]	Quan-FP	S Ka	0.0750
ZnO	0.097 %	[0.012]	Quan-FP	ZnKa	0.8330
CaO	0.013 %	[0.012]	Quan-FP	CaKa	0.0151
ThO2	0.007 %	[0.012]	Quan-FP	ThLa	0.1333

b. Tailing

Sample : NO-K-TAILING
 Operator: Akmal
 Comment : Quick&easy Air-Metal
 Group : easy-oxide
 Date : 2022-07-29 10:37:31

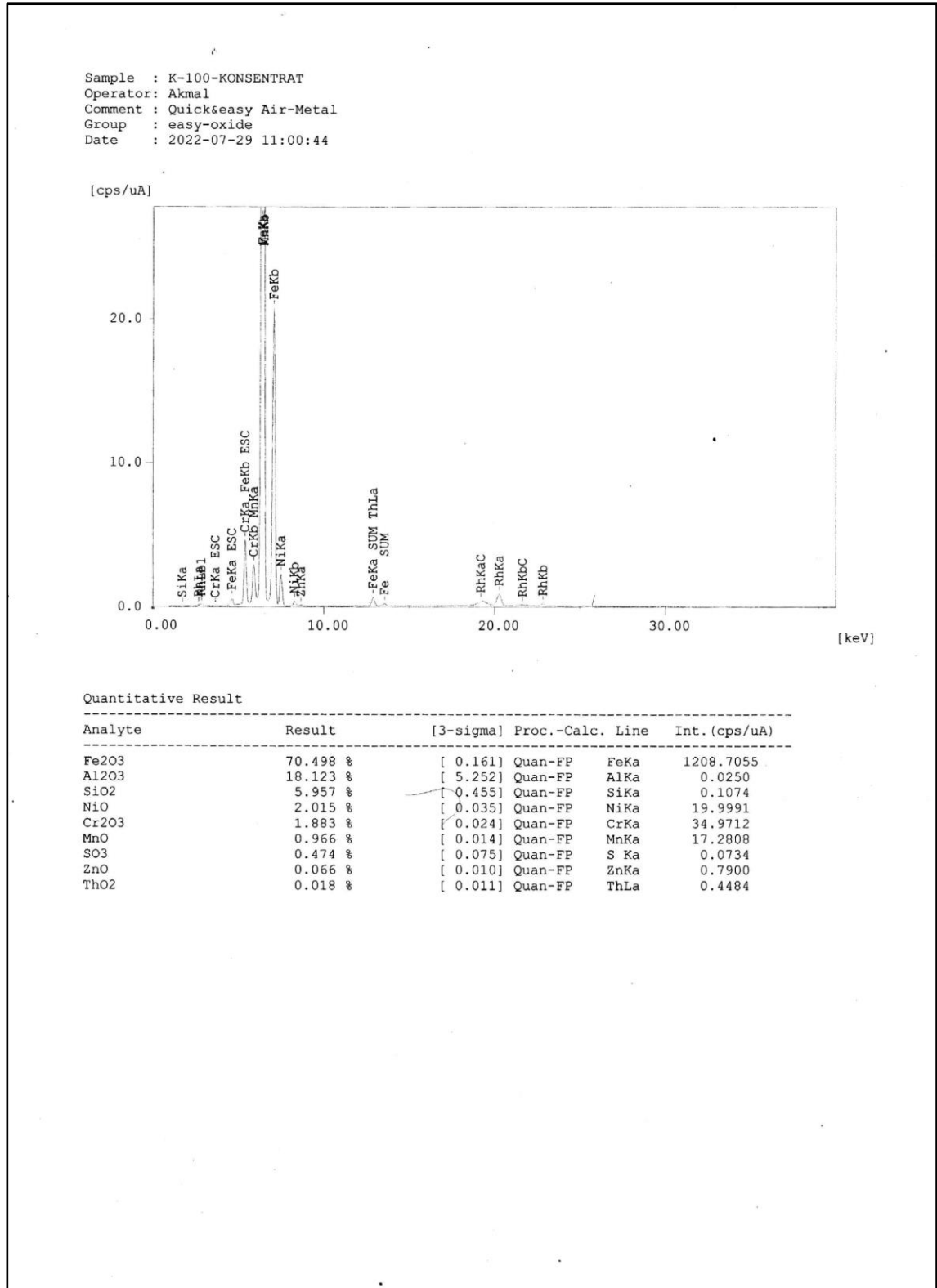


Quantitative Result

Analyte	Result	[3-sigma]	Proc.-Calc.	Line	Int.(cps/uA)
Fe2O3	71.111 %	[0.167]	Quan-FP	FeKa	1213.2946
Al2O3	17.232 %	[5.176]	Quan-FP	AlKa	0.0236
SiO2	6.150 %	[0.464]	Quan-FP	SiKa	0.1109
NiO	2.026 %	[0.036]	Quan-FP	NiKa	19.9167
Cr2O3	1.885 %	[0.024]	Quan-FP	CrKa	34.9906
MnO	1.056 %	[0.016]	Quan-FP	MnKa	18.8204
SO3	0.469 %	[0.074]	Quan-FP	S Ka	0.0726
ZnO	0.067 %	[0.011]	Quan-FP	ZnKa	0.8011
ThO2	0.003 %	[0.011]	Quan-FP	ThLa	0.0781

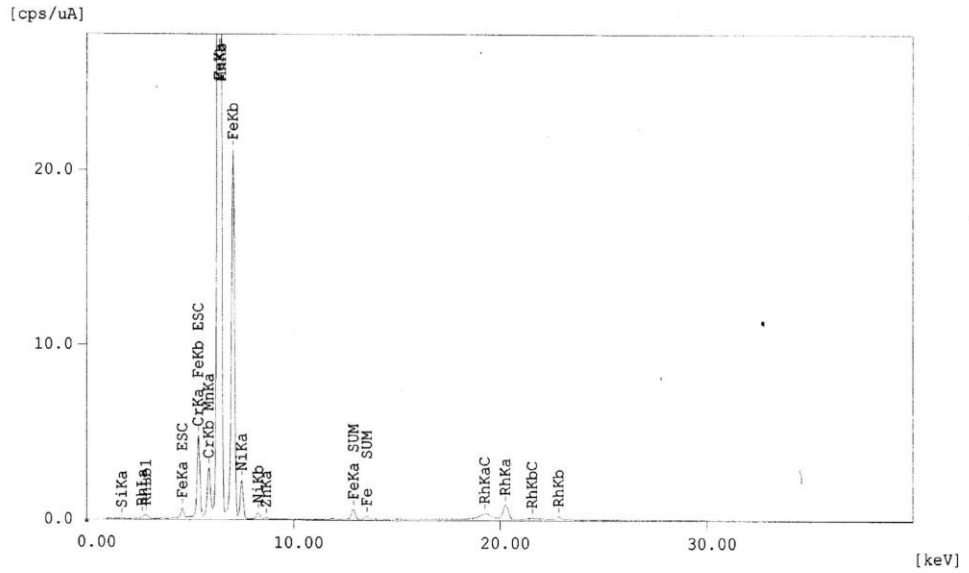
3. Sampel Setelah Pemanasan hasil pemisahan Magnetik Separator dengan Variasi Suhu

a. Konsentrat dengan Pemanasan 100°C



b. Konsentrat dengan Pemanasan 300°C

Sample : K-300-KONSENTRAT
 Operator: Akmal
 Comment : Quick&easy Air-Metal
 Group : easy-oxide
 Date : 2022-07-29 11:16:36

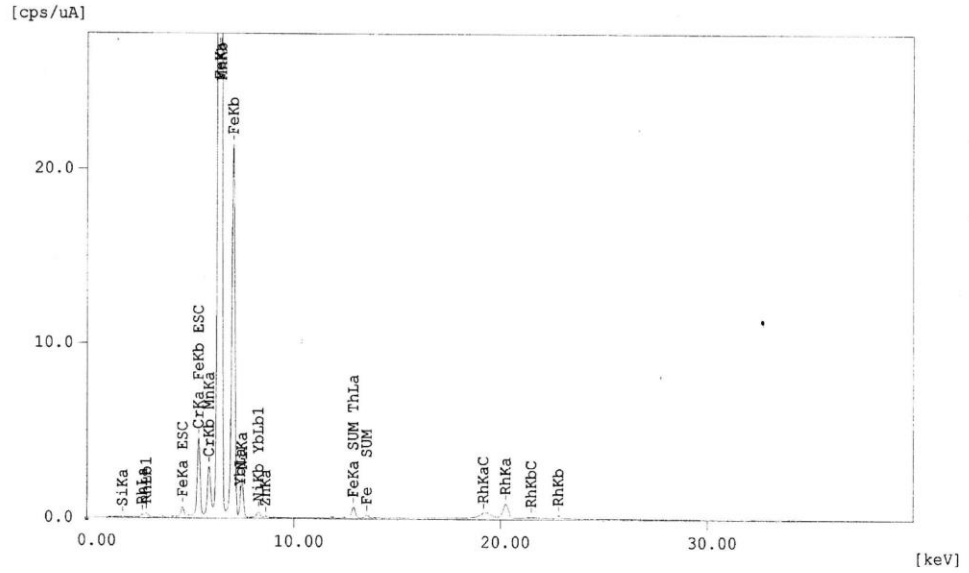


Quantitative Result

Analyte	Result	[3-sigma]	Proc.-Calc.	Line	Int. (cps/uA)
Fe2O3	86.698 %	[0.202]	Quan-FP	FeKa	1233.9438
SiO2	6.806 %	[0.511]	Quan-FP	SiKa	0.1137
NiO	2.667 %	[0.048]	Quan-FP	NiKa	20.0429
Cr2O3	2.067 %	[0.026]	Quan-FP	CrKa	35.4632
MnO	1.108 %	[0.017]	Quan-FP	MnKa	17.1383
SO3	0.564 %	[0.079]	Quan-FP	S Ka	0.0802
ZnO	0.089 %	[0.011]	Quan-FP	ZnKa	0.8041
CaO	0.001 %	[0.010]	Quan-FP	CaKa	0.0016

c. Konsentrat dengan Pemanasan 500°C

Sample : K-500-KONSENTRAT
 Operator: Akmal
 Comment : Quick&easy Air-Metal
 Group : easy-oxide
 Date : 2022-07-29 11:32:09

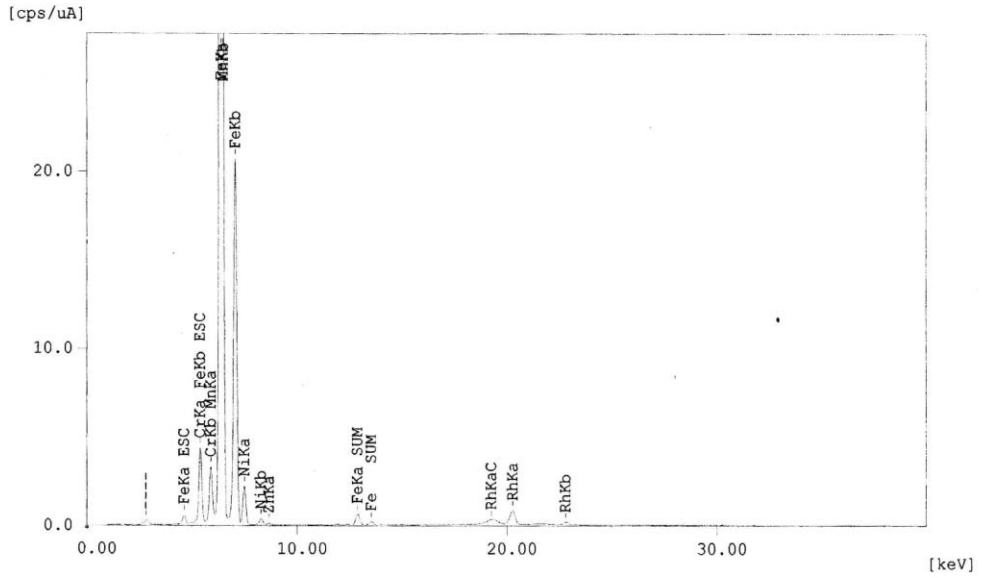


Quantitative Result

Analyte	Result	[3-sigma]	Proc.-Calc.	Line	Int. (cps/uA)
Fe2O3	70.053 %	[0.163]	Quan-FP	FeKa	1242.2036
Al2O3	18.375 %	[5.130]	Quan-FP	AlKa	0.0263
SiO2	5.920 %	[0.444]	Quan-FP	SiKa	0.1103
NiO	1.978 %	[0.035]	Quan-FP	NiKa	20.4053
Cr2O3	1.842 %	[0.024]	Quan-FP	CrKa	35.1513
MnO	0.997 %	[0.015]	Quan-FP	MnKa	18.3787
SO3	0.503 %	[0.076]	Quan-FP	S Ka	0.0803
Yb2O3	0.259 %	[0.251]	Quan-FP	YbLa	1.0772
ZnO	0.068 %	[0.011]	Quan-FP	ZnKa	0.8426
ThO2	0.006 %	[0.011]	Quan-FP	ThLa	0.1598

d. Konsentrat dengan Pemanasan 700°C

Sample : K-700-KONSENTRAT
 Operator: Akmal
 Comment : Quick&easy Air-Metal
 Group : easy-oxide
 Date : 2022-07-29 11:47:11

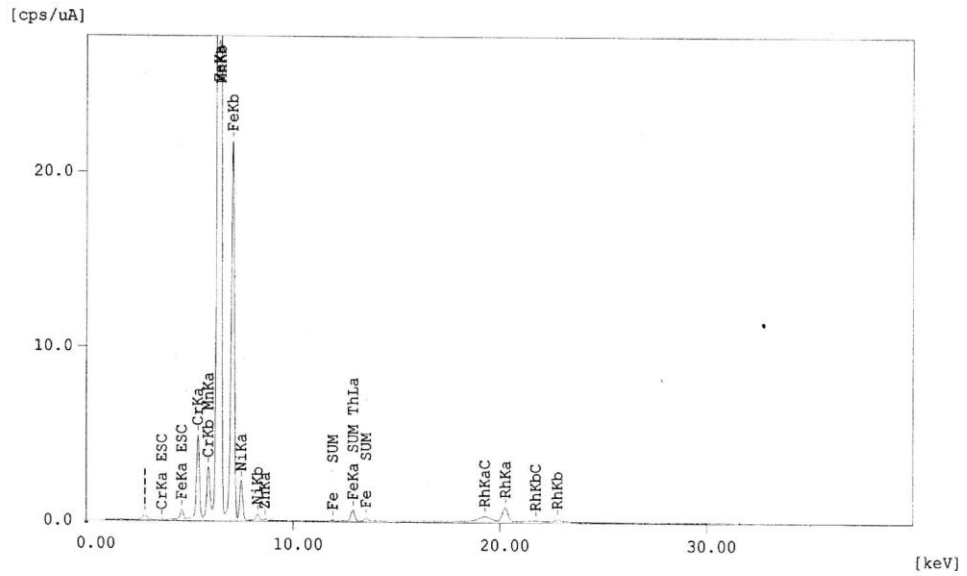


Quantitative Result

Analyte	Result	[3-sigma]	Proc.-Calc.	Line	Int. (cps/uA)
Fe2O3	86.969 %	[0.198]	Quan-FP	FeKa	1207.2814
SiO2	6.426 %	[0.488]	Quan-FP	SiKa	0.1042
NiO	2.667 %	[0.046]	Quan-FP	NiKa	19.4272
Cr2O3	1.904 %	[0.024]	Quan-FP	CrKa	31.8553
MnO	1.376 %	[0.019]	Quan-FP	MnKa	20.6640
SO3	0.563 %	[0.079]	Quan-FP	S Ka	0.0780
ZnO	0.086 %	[0.011]	Quan-FP	ZnKa	0.7531
CaO	0.010 %	[0.010]	Quan-FP	CaKa	0.0117

e. Konsentrat dengan Pemanasan 900°C

Sample : K-900-KONSENTRAT
 Operator: Akmal
 Comment : Quick&easy Air-Metal
 Group : easy-oxide
 Date : 2022-07-29 12:05:50

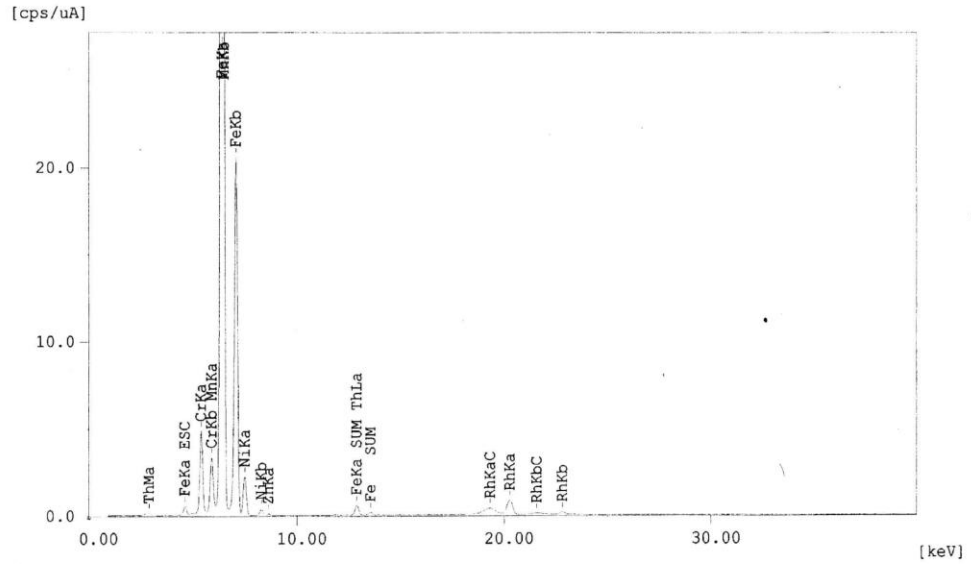


Quantitative Result

Analyte	Result	[3-sigma]	Proc.-Calc.	Line	Int. (cps/uA)
Fe2O3	70.374 %	[0.162]	Quan-FP	FeKa	1256.4911
Al2O3	18.709 %	[5.262]	Quan-FP	AlKa	0.0269
SiO2	6.011 %	[0.455]	Quan-FP	SiKa	0.1127
Cr2O3	1.982 %	[0.025]	Quan-FP	CrKa	38.4004
NiO	1.892 %	[0.033]	Quan-FP	NiKa	19.6013
MnO	0.957 %	[0.014]	Quan-FP	MnKa	17.8686
ZnO	0.064 %	[0.010]	Quan-FP	ZnKa	0.8078
ThO2	0.010 %	[0.011]	Quan-FP	ThLa	0.2621

f. Tailing dengan Pemanasan 100°C

Sample : K-100-TAILING
 Operator: Akmal
 Comment : Quick&easy Air-Metal
 Group : easy-oxide
 Date : 2022-07-29 10:53:05

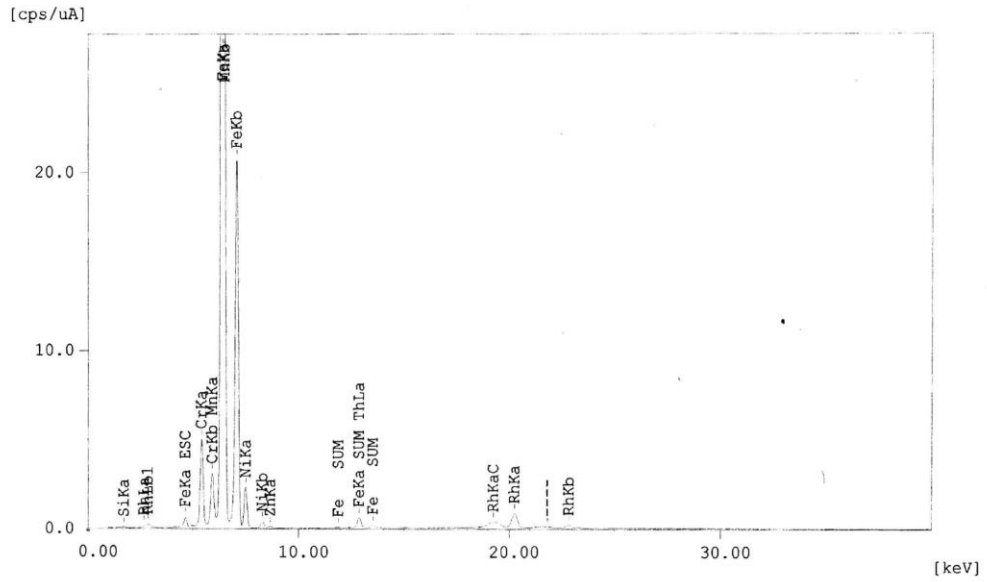


Quantitative Result

Analyte	Result	[3-sigma]	Proc.-Calc.	Line	Int. (cps/uA)
Fe2O3	86.086 %	[0.203]	Quan-FP	FeKa	1190.5253
SiO2	7.019 %	[0.526]	Quan-FP	SiKa	0.1145
NiO	2.645 %	[0.047]	Quan-FP	NiKa	19.4241
Cr2O3	2.258 %	[0.029]	Quan-FP	CrKa	37.5677
MnO	1.342 %	[0.019]	Quan-FP	MnKa	20.1844
SO3	0.558 %	[0.079]	Quan-FP	S Ka	0.0774
ZnO	0.087 %	[0.012]	Quan-FP	ZnKa	0.7743
ThO2	0.004 %	[0.012]	Quan-FP	ThLa	0.0804

g. Tailing dengan Pemanasan 300°C

Sample : K-300-TAILING
 Operator: Akmal
 Comment : Quick&easy Air-Metal
 Group : easy-oxide
 Date : 2022-07-29 11:09:01

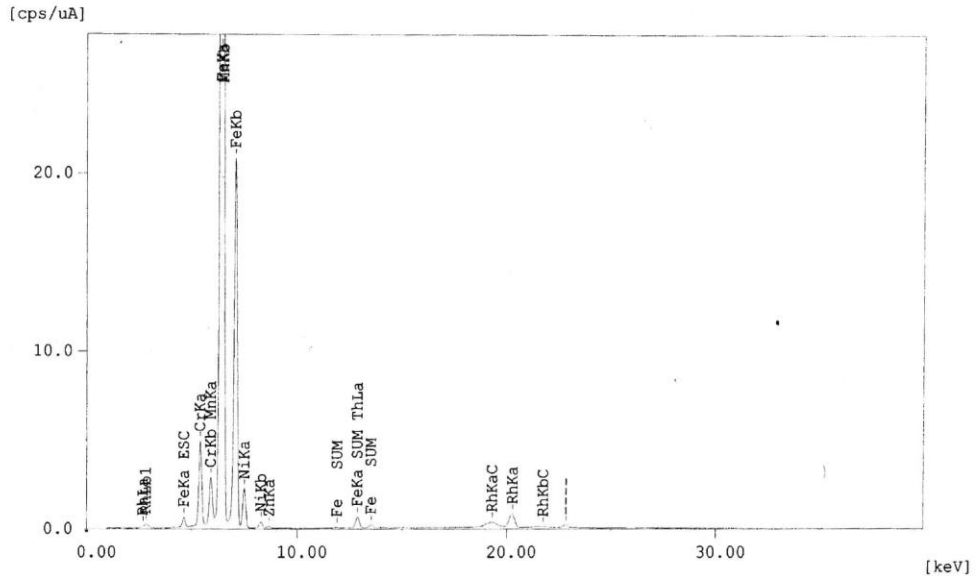


Quantitative Result

Analyte	Result	[3-sigma]	Proc.-Calc.	Line	Int.(cps/uA)
Fe2O3	69.238 %	[0.162]	Quan-FP	FeKa	1207.0755
Al2O3	19.395 %	[5.610]	Quan-FP	AlKa	0.0274
SiO2	5.773 %	[0.440]	Quan-FP	SiKa	0.1055
Cr2O3	2.072 %	[0.026]	Quan-FP	CrKa	38.9027
NiO	1.957 %	[0.034]	Quan-FP	NiKa	19.9735
MnO	1.002 %	[0.015]	Quan-FP	MnKa	18.2385
SO3	0.491 %	[0.076]	Quan-FP	S Ka	0.0771
ZnO	0.067 %	[0.011]	Quan-FP	ZnKa	0.8254
ThO2	0.007 %	[0.011]	Quan-FP	ThLa	0.1724

h. Tailing dengan Pemanasan 500°C

Sample : K-500-TAILING
 Operator: Akmal
 Comment : Quick&easy Air-Metal
 Group : easy-oxide
 Date : 2022-07-29 11:24:29

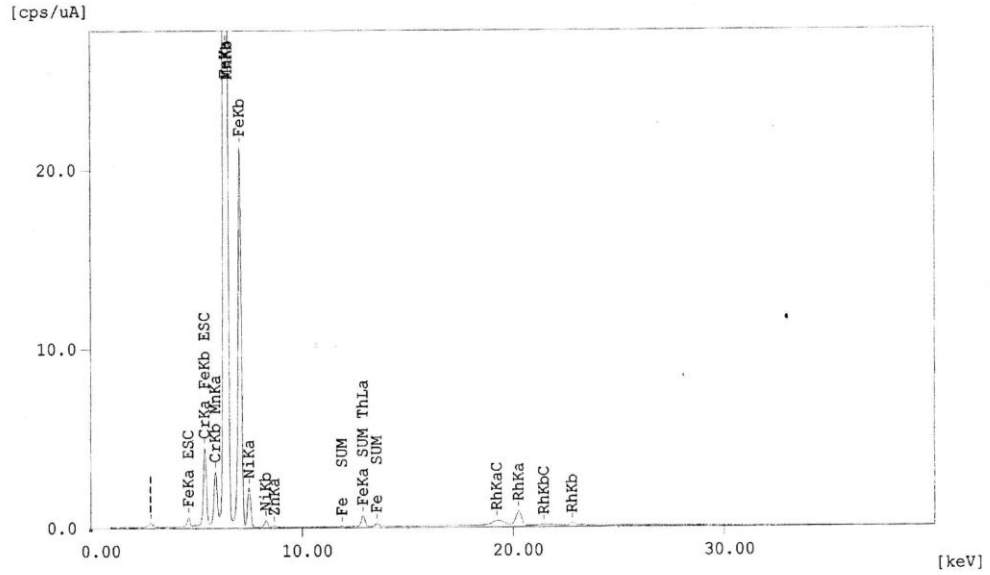


Quantitative Result

Analyte	Result	[3-sigma]	Proc.-Calc.	Line	Int. (cps/uA)
Fe2O3	86.683 %	[0.196]	Quan-FP	FeKa	1207.2338
SiO2	6.564 %	[0.493]	Quan-FP	SiKa	0.1078
NiO	2.707 %	[0.047]	Quan-FP	NiKa	19.9982
Cr2O3	2.267 %	[0.028]	Quan-FP	CrKa	38.1060
MnO	1.070 %	[0.016]	Quan-FP	MnKa	16.2537
SO3	0.591 %	[0.077]	Quan-FP	S Ka	0.0827
ZnO	0.097 %	[0.011]	Quan-FP	ZnKa	0.8630
ThO2	0.021 %	[0.012]	Quan-FP	ThLa	0.4019

i. Tailing dengan Pemanasan 700°C

Sample : K-700-TAILING
 Operator: Akmal
 Comment : Quick&easy Air-Metal
 Group : easy-oxide
 Date : 2022-07-29 11:39:45

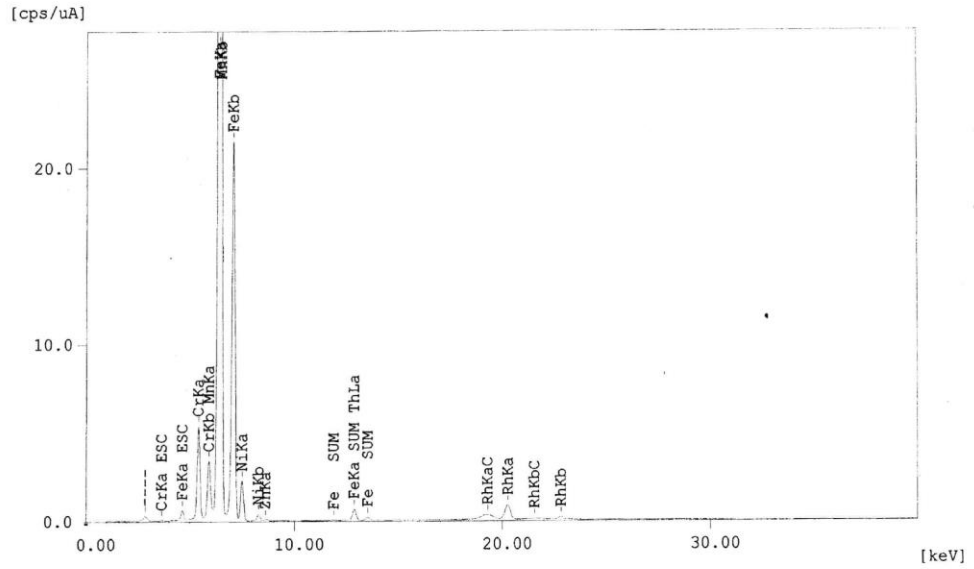


Quantitative Result

Analyte	Result	[3-sigma]	Proc.-Calc.	Line	Int. (cps/uA)
Fe2O3	68.055 %	[0.158]	Quan-FP	FeKa	1247.1203
Al2O3	21.017 %	[5.516]	Quan-FP	AlKa	0.0311
SiO2	5.747 %	[0.437]	Quan-FP	SiKa	0.1085
NiO	1.824 %	[0.033]	Quan-FP	NiKa	19.6074
Cr2O3	1.753 %	[0.023]	Quan-FP	CrKa	34.1655
MnO	1.014 %	[0.015]	Quan-FP	MnKa	19.2082
SO3	0.515 %	[0.076]	Quan-FP	S Ka	0.0835
ZnO	0.063 %	[0.011]	Quan-FP	ZnKa	0.8167
CaO	0.007 %	[0.010]	Quan-FP	CaKa	0.0094
ThO2	0.006 %	[0.011]	Quan-FP	ThLa	0.1704

j. Tailing dengan Pemanasan 900°C

Sample : K-900-TAILING
 Operator: Akmal
 Comment : Quickseasy Air-Metal
 Group : easy-oxide
 Date : 2022-07-29 11:58:15



Quantitative Result

Analyte	Result	[3-sigma]	Proc.-Calc.	Line	Int. (cps/uA)
Fe2O3	67.667 %	[0.156]	Quan-FP	FeKa	1239.0429
Al2O3	21.071 %	[5.685]	Quan-FP	AlKa	0.0314
SiO2	6.195 %	[0.460]	Quan-FP	SiKa	0.1179
Cr2O3	2.131 %	[0.026]	Quan-FP	CrKa	41.6324
NiO	1.804 %	[0.032]	Quan-FP	NiKa	19.5626
MnO	1.041 %	[0.015]	Quan-FP	MnKa	19.8464
ZnO	0.066 %	[0.010]	Quan-FP	ZnKa	0.8631
CaO	0.014 %	[0.011]	Quan-FP	CaKa	0.0187
ThO2	0.012 %	[0.011]	Quan-FP	ThLa	0.3232






LAMPIRAN C
KARTU KONSULTASI TUGAS AKHIR

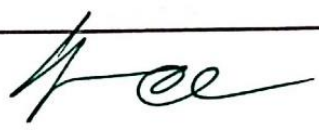

Lampiran B 10




Kartu Konsultasi Tugas Akhir

JUDUL: ANALISIS PENGARUH TEMPERATUR PEMANASAN TERHADAP
PENINGKATAN KADAR BIJIH LIMONIT MENGGUNAKAN
METODE MAGNETIC SEPARATION

(Konsultasi minimal 8 kali)

TANGGAL	MATERI KONSULTASI	PARAF DOSEN
1. Juli 2022	Pak Sufriadin : - Hasil penelitian , Tujuan penelitian - Bagan alir penelitian	
4 Juli 2022	Pak Sufriadin : - Tinjauan Pustaka , Tujuan penelitian , - Hasil penelitrn , Format Penulisan	
15 Juli 2022	Pak Sufriadin : - Abstrak Penelitrn , Hasil Penelitrn - Format penulisan skripsi - Grafik pada bab 4	
22 Juli 2022	Pak Sufriadin : - Kesimpulan pada skripsi - Grafik pada bab 4 - Abstrak Penelitian - Latar Belakang	
29 Juli 2022	Pak Sufriadin : - Abstrak Penelitian - Kesimpulan pada skripsi	

TANGGAL	MATERI KONSULTASI	PARAF DOSEN
9 Agustus 2022	Acc 	UA
9 Agustus 2022	Ibu Rizki Amalia : - Kata-kata yang typo - Latar belakang - Abstrak	RA RA
15 Agustus 2022	Ibu Rizki Amalia : ACC	
9 September 2022	Pak Sufriadin : - Revisi seminar hasil • Grafik • Peta lokasi penelitian • Kesimpulan	UA
12 September 2022	Pak Sufriadin : • Abstrak • Tujuan Penelitian • Kesimpulan	UA
23 September 2022	Pak Sufriadin : ACC	
23 September 2022	Ibu Rizki Amalia • Abstrak • Latar belakang • Tujuan penelitian	RA
26 September 2022	Ibu Rizki Amalia ACC	RA.

TANGGAL	MATERI KONSULTASI	PARAF DOSEN
14 Oktober 2022	Pak Supriadin: • Kesimpulan • Bagan Alir Penelitian	
14 Oktober 2022	Pak Supriadin: ACC	
17 Oktober 2022	Ibu Rizki Amalia: ACC	

Catatan: Lembar konsultasi asli dilampirkan pada satu dokumen skripsi.