

Lampiran 1: Hasil Uji Komposisi Kimia



CENTER FOR MATERIALS PROCESSING AND FAILURE ANALYSIS
DEPARTEMEN TEKNIK METALURGI & MATERIAL-UNIVERSITAS INDONESIA
LABORATORIUM UJI MATERIAL

Kampus Baru UI - Depok 16424 - Indonesia
Phone : 021 - 788 49045, 786 3510 Fax : 021 - 78888 111, 7872 350 E-mail : ompfa@metal.ui.ac.id, ompfa.ui@gmail.com

LAPORAN PENGUJIAN KOMPOSISI KIMIA
COMPOSITION TEST REPORT

Page 1 of 6

No Laporan Report No	0652	Bahan Material	Aluminium Alloy
Pemakai Jasa Customer	Zulaina Sari	Identitas Bahan Material Identity	AC4B
Alamat Address	Mahasiswa S2 DTMM FTUI	Tanggal Terima Receiving Date	May 27 th , 2010
No Kontrak Contract No	0652/PT.02/FT04/P/2010	Standar Standard	ASTM E 34-94
Tanggal Uji Date of Test	May 27 th , 2010	Mesin Uji Testing machine	Optical Emission Spectrometer

Kode Sampel Sample Code	Si (%)	Fe (%)	Cu (%)	Mn (%)	Mg (%)	Zn (%)	Sr (%)
A	8.39	0.729	2.69	0.451	0.965	0.555	<0.0001
	Ti (%)	Cr (%)	Ni (%)	In (%)	Sn (%)	V (%)	Al (%)
	0.0256	0.0275	0.0155	< 0.010	0.0289	0.0095	85.9

Depok, June 11th, 2010
LABORATORIUM UJI MATERIAL
Technical Manager,

(Ahmad Ivan Karayan, ST, M.Eng)

Laporan hasil pengujian ini hanya berlaku untuk sampel yang diuji di Laboratorium Uji Material, publikasi serta penggunaan dokumen ini atau sebagian dari padanya harus dengan izin dari Laboratorium Uji Material.



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LAPORAN PENGUJIAN KOMPOSISI KIMIA
COMPOSITION TEST REPORT

Page 2 of 4

No Laporan Report Nr	0652	Bahan Material	Aluminium Alloy
Pemakai Jasa Customer	Zulaina Sari	Identitas Bahan Material Identity	AC4B
Alamat Address	Mahasiswa S2 DTMM FTUI	Tanggal Terima Receiving Date	May 27 th , 2010
No Kontrak Contract Nr	0652/PT.02/FT04/P/2010	Standar Standard	ASTM E 24-94
Tanggal Uji Date of Test	May 27 th , 2010	Mesin Uji Testing machine	Optical Emission Spectrometer

Kode Sampel Sample Code	Si (%)	Fe (%)	Cu (%)	Mn (%)	Mg (%)	Zn (%)	Sr (%)
B	9.45	0.646	2.63	0.330	0.528	0.500	0.0268
	Ti (%)	Cr (%)	Ni (%)	In (%)	Su (%)	V (%)	Al (%)
	0.0644	0.0318	< 0.005	< 0.010	< 0.010	0.0097	85.7

Depok, June 11th, 2010
 LABORATORIUM UJI MATERIAL
 Technical Manager,

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LAPORAN PENGUJIAN KOMPOSISI KIMIA
COMPOSITION TEST REPORT

Page 3 of 4

No Laporan Report No	0652	Bahan Material	Aluminium Alloy
Pemakai Jasa Customer	Zulaina Sari	Identitas Bahan Material Identity	AC4B
Alamat Address	Mahasiswa S2 DTMM FTUI	Tanggal Terima Receiving Date	May 27 th , 2010
No Kontrak Contract No	0652/PT.02/FT04/P/2010	Standar Standard	ASTM E 34-94
Tanggal Uji Date of Test	May 27 th , 2010	Mesin Uji Testing machine	Optical Emission Spectrometer

Kode Sampel Sample Code	Si (%)	Fe (%)	Cu (%)	Mn (%)	Mg (%)	Zn (%)	Sr (%)
C	9.43	0.703	2.68	0.328	0.412	0.498	0.0153
	Ti (%)	Cr (%)	Ni (%)	In (%)	Sn (%)	V (%)	Al (%)
	0.0855	0.0304	0.0078	< 0.010	< 0.010	0.0096	85.7

Depok, June 11th, 2010
LABORATORIUM UJI MATERIAL
Technical Manager

(Ahmad Ivan Karayan, ST, M.Eng)

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 PT Astra Honda Motor Measurement & Laboratory Facility Quality Assurance Support Department			
LAPORAN PENGUJIAN KOMPOSISI KIMIA			
NAMA PART	: SAMPLE MELTING	TGL PENGUJIAN	: 27-Feb-09 08:30:08
NO PART / TYPE	: SAMPLE LPDC AD 210209 0	STANDAR UM	: HSB 0-101-08
MATERIAL	: A048 (2008)	MESH UJI	: SPECTRO 08-04004-
DEKSI / SUB CON	: LPDC	METERANJAN	: SHFT 2
TEST #8	: 1		
Waktu Kerja 3			
ACTUAL		STANDARD GA. AMN	
SI	: 8.882	SI	: 1.00 - 10.00
CU	: 2.184	CO	: 2.00 - 4.20
NO	: 0.211	MO	: 0.50 MAX
FE	: 0.766	PE	: 1.00 MAX
MN	: 0.288	NR	: 1.00 MAX
NI	: 0.058	BI	: 0.50 MAX
TI	: <u>0.108</u>	TI	: 0.38 MAX
PB	: 0.088	PB	: 0.20 MAX
SR	: 0.007	SR	: 0.20 MAX
CR	: 0.002	CR	: 0.10 MAX
CA	: 0.000	CA	: 0.20 MAX
SH	: <u>0.005</u>		
NOTE - HASIL UJI URUT Y AND BERURUTAN DI BAWAH - NO - LAKUKAN PERBAIKAN SLSA HASIL TEST #8			
		METERANJAN  ANCOR	

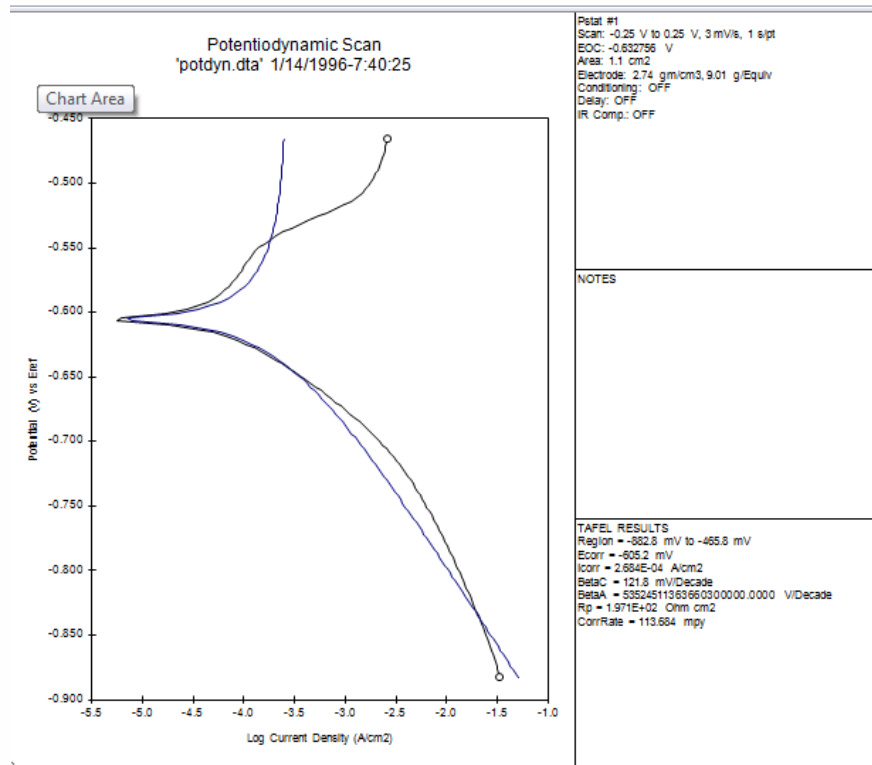
Lampiran 2: Hasil Uji Kekerasan

Sampel	Komposisi		Kekerasan di titik ke - (HRB)					Average	Std	% Std
	wt. % Ti	wt. % Sr	1	2	3	4	5			
A	0	0	44	45.8	43.1	42.2	44.9	44.00	1.423025	3.234148
B	0.064	0.02	55.4	54.1	54.7	56.9	51.9	54.60	1.835756	3.36219
C	0.086	0.02	50.9	50.6	52.3	50.5	52.8	51.42	1.056882	2.055391
D	0.103	0.02	57.1	56.9	56.8	56.2	57.3	56.86	0.415933	0.731503



Lampiran 3: Hasil Uji Laju Korosi Melalui Polarisasi

Komposisi	n (e-valensi)	BM	Sebelum Penambahan (Sampel A)	(n*f/BM) Sampel A	0.02 wt. % Sr, 0.064 wt. % Ti (Sampel B)	(n*f/BM) Sampel B	0.02 wt. % Sr, 0.086 wt. % Ti (Sampel C)	(n*f/BM) Sampel C	0.02 wt. % Sr, 0.063 wt. % Ti (Sampel D)	(n*f/BM) Sampel D
Si	4	28.9	8.39	1.161246	9.45	1.307958	9.43	1.30519	9.44	1.306574
Cu	2	63.55	2.69	0.084658	2.63	0.082769	2.68	0.084343	2.62	0.082455
Mg	2	24.31	0.965	0.079391	0.528	0.043439	0.412	0.033896	0.563	0.046318
Fe	2	55.85	0.729	0.026106	0.646	0.023133	0.701	0.025103	0.667	0.023885
Mn	7	54.96	0.451	0.057442	0.33	0.042031	0.328	0.041776	0.323	0.041139
Ni	2	58.69	0.0053	0.000181	0.005	0.00017	0.0078	0.000266	0.005	0.00017
Ti	4	47.88	0.0256	0.002139	0.0644	0.00538	0.0855	0.007143	0.063	0.005263
Pb	2	207.2	0.0481	0.000464	0.026	0.000251	0.0293	0.000283	0.0239	0.000231
Sn	2	118.69	0.0299	0.000504	0.01	0.000169	0.01	0.000169	0.01	0.000169
Cr	3	52	0.0275	0.001587	0.0318	0.001835	0.0304	0.001754	0.0291	0.001679
Ca	2	40.08	0.0064	0.000319	0.0029	0.000145	0.0057	0.000284	0.0021	0.000105
Sr	2	87.02	0	0	0.0268	0.000616	0.0153	0.000352	0.0281	0.000646
Al	3	26.98	85.9	9.55152	85.7	9.529281	85.7	9.529281	85.6	9.518162
nEQ				10.96555		11.03718		11.02984		11.0268
WEQ				9.119465		9.060288		9.066316		9.068818
A (cm ²)				0.94985		1.038163		0.94985		0.94985

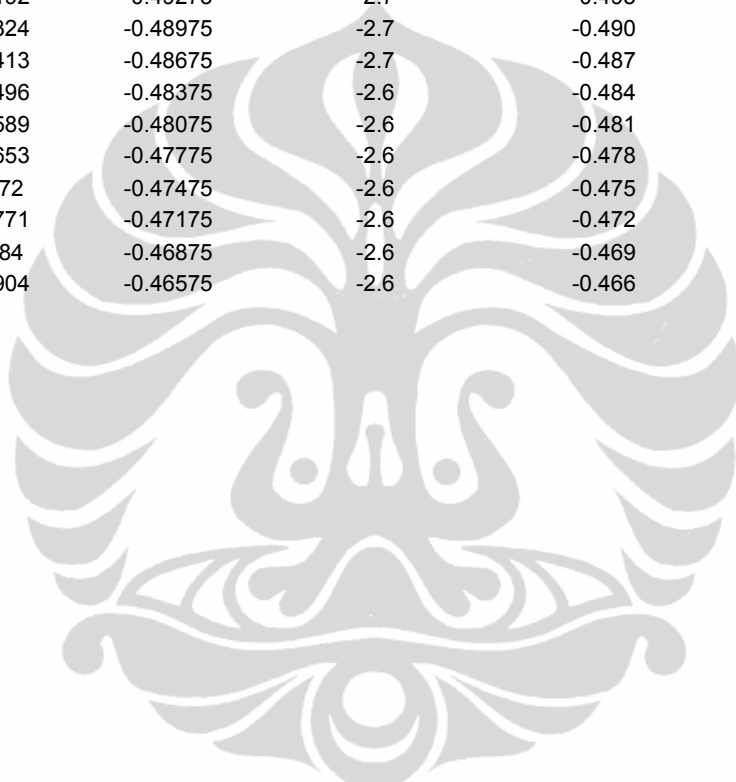


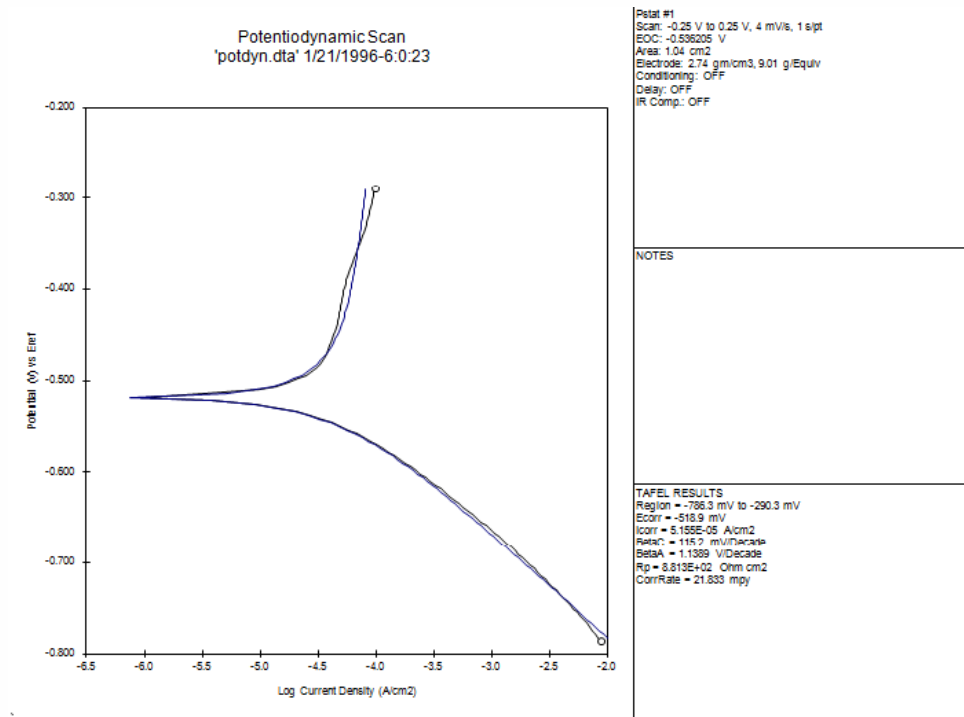
Curve.Time	Curve.Current	Curve.Voltage	Disp.Current.Data	Disp.Voltage.Data	Anal.Current.Data
1	-0.03599	-0.88275	-1.5	-0.883	-1.3
2	-0.03578	-0.87975	-1.5	-0.880	-1.3
3	-0.03523	-0.87675	-1.5	-0.877	-1.3
4	-0.03446	-0.87375	-1.5	-0.874	-1.4
5	-0.03351	-0.87075	-1.5	-0.871	-1.4
6	-0.0326	-0.86775	-1.5	-0.868	-1.4
7	-0.03163	-0.86475	-1.5	-0.865	-1.4
8	-0.03063	-0.86175	-1.6	-0.862	-1.5
9	-0.02968	-0.85875	-1.6	-0.859	-1.5
10	-0.02869	-0.85575	-1.6	-0.856	-1.5
11	-0.0278	-0.85275	-1.6	-0.853	-1.5
12	-0.02687	-0.84975	-1.6	-0.850	-1.6
13	-0.02591	-0.84675	-1.6	-0.847	-1.6
14	-0.02504	-0.84375	-1.6	-0.844	-1.6
15	-0.02417	-0.84075	-1.7	-0.841	-1.6
16	-0.02339	-0.83775	-1.7	-0.838	-1.7
17	-0.02256	-0.83475	-1.7	-0.835	-1.7
18	-0.02175	-0.83175	-1.7	-0.832	-1.7
19	-0.02098	-0.82875	-1.7	-0.829	-1.7
20	-0.02023	-0.82575	-1.7	-0.826	-1.8
21	-0.01949	-0.82275	-1.8	-0.823	-1.8
22	-0.01876	-0.81975	-1.8	-0.820	-1.8
23	-0.01805	-0.81675	-1.8	-0.817	-1.8

Curve.Time	Curve.Current	Curve.Voltage	Disp.Current.Data	Disp.Voltage.Data	Anal.Current.Data
24	-0.01738	-0.81375	-1.8	-0.814	-1.9
25	-0.01673	-0.81075	-1.8	-0.811	-1.9
26	-0.01611	-0.80775	-1.8	-0.808	-1.9
27	-0.01549	-0.80475	-1.9	-0.805	-1.9
28	-0.01488	-0.80175	-1.9	-0.802	-2.0
29	-0.0143	-0.79875	-1.9	-0.799	-2.0
30	-0.01374	-0.79575	-1.9	-0.796	-2.0
31	-0.01319	-0.79275	-1.9	-0.793	-2.0
32	-0.01266	-0.78975	-1.9	-0.790	-2.1
33	-0.0121	-0.78675	-2.0	-0.787	-2.1
34	-0.0116	-0.78375	-2.0	-0.784	-2.1
35	-0.01112	-0.78075	-2.0	-0.781	-2.1
36	-0.01066	-0.77775	-2.0	-0.778	-2.2
37	-0.01021	-0.77475	-2.0	-0.775	-2.2
38	-0.00977	-0.77175	-2.1	-0.772	-2.2
39	-0.00935	-0.76875	-2.1	-0.769	-2.2
40	-0.00894	-0.76575	-2.1	-0.766	-2.3
41	-0.00854	-0.76275	-2.1	-0.763	-2.3
42	-0.00816	-0.75975	-2.1	-0.760	-2.3
43	-0.00778	-0.75675	-2.2	-0.757	-2.4
44	-0.00742	-0.75375	-2.2	-0.754	-2.4
45	-0.00706	-0.75075	-2.2	-0.751	-2.4
46	-0.00673	-0.74775	-2.2	-0.748	-2.4
47	-0.00638	-0.74475	-2.2	-0.745	-2.5
48	-0.00606	-0.74175	-2.3	-0.742	-2.5
49	-0.00574	-0.73875	-2.3	-0.739	-2.5
50	-0.00544	-0.73575	-2.3	-0.736	-2.5
51	-0.00513	-0.73275	-2.3	-0.733	-2.6
52	-0.00484	-0.72975	-2.4	-0.730	-2.6
53	-0.00456	-0.72675	-2.4	-0.727	-2.6
54	-0.00428	-0.72375	-2.4	-0.724	-2.6
55	-0.00402	-0.72075	-2.4	-0.721	-2.7
56	-0.00376	-0.71775	-2.5	-0.718	-2.7
57	-0.00351	-0.71475	-2.5	-0.715	-2.7
58	-0.00327	-0.71175	-2.5	-0.712	-2.8
59	-0.00304	-0.70875	-2.6	-0.709	-2.8
60	-0.00281	-0.70575	-2.6	-0.706	-2.8
61	-0.0026	-0.70275	-2.6	-0.703	-2.8
62	-0.0024	-0.69975	-2.7	-0.700	-2.9
63	-0.0022	-0.69675	-2.7	-0.697	-2.9
64	-0.00201	-0.69375	-2.7	-0.694	-2.9
65	-0.00184	-0.69075	-2.8	-0.691	-3.0
66	-0.00167	-0.68775	-2.8	-0.688	-3.0
67	-0.00152	-0.68475	-2.9	-0.685	-3.0
68	-0.00137	-0.68175	-2.9	-0.682	-3.1
69	-0.00124	-0.67875	-2.9	-0.679	-3.1
70	-0.00111	-0.67575	-3.0	-0.676	-3.1
71	-0.001	-0.67275	-3.0	-0.673	-3.2
72	-0.0009	-0.66975	-3.1	-0.670	-3.2

Curve.Time	Curve.Current	Curve.Voltage	Disp.Current.Data	Disp.Voltage.Data	Anal.Current.Data
73	-0.0008	-0.66675	-3.1	-0.667	-3.2
74	-0.00071	-0.66375	-3.2	-0.664	-3.3
75	-0.00064	-0.66075	-3.2	-0.661	-3.3
76	-0.00056	-0.65775	-3.3	-0.658	-3.3
77	-0.0005	-0.65475	-3.3	-0.655	-3.4
78	-0.00044	-0.65175	-3.4	-0.652	-3.4
79	-0.00039	-0.64875	-3.5	-0.649	-3.5
80	-0.00034	-0.64575	-3.5	-0.646	-3.5
81	-0.0003	-0.64275	-3.6	-0.643	-3.6
82	-0.00026	-0.63975	-3.6	-0.640	-3.6
83	-0.00023	-0.63675	-3.7	-0.637	-3.7
84	-0.00019	-0.63375	-3.8	-0.634	-3.7
85	-0.00017	-0.63075	-3.8	-0.631	-3.8
86	-0.00014	-0.62775	-3.9	-0.628	-3.8
87	-0.00012	-0.62475	-4.0	-0.625	-3.9
88	-9.5E-05	-0.62175	-4.1	-0.622	-4.0
89	-7.4E-05	-0.61875	-4.2	-0.619	-4.1
90	-5.5E-05	-0.61575	-4.3	-0.616	-4.2
91	-3.7E-05	-0.61275	-4.5	-0.613	-4.4
92	-2.1E-05	-0.60975	-4.7	-0.610	-4.6
93	-6.2E-06	-0.60675	-5.2	-0.607	-5.1
94	6.89E-06	-0.60375	-5.2	-0.604	-5.1
95	1.88E-05	-0.60075	-4.8	-0.601	-4.7
96	2.97E-05	-0.59775	-4.6	-0.598	-4.5
97	3.97E-05	-0.59475	-4.4	-0.595	-4.3
98	4.87E-05	-0.59175	-4.4	-0.592	-4.2
99	5.72E-05	-0.58875	-4.3	-0.589	-4.1
100	6.46E-05	-0.58575	-4.2	-0.586	-4.1
101	7.2E-05	-0.58275	-4.2	-0.583	-4.0
102	7.85E-05	-0.57975	-4.1	-0.580	-4.0
103	8.46E-05	-0.57675	-4.1	-0.577	-4.0
104	9.14E-05	-0.57375	-4.1	-0.574	-3.9
105	9.76E-05	-0.57075	-4.1	-0.571	-3.9
106	0.000104	-0.56775	-4.0	-0.568	-3.9
107	0.000111	-0.56475	-4.0	-0.565	-3.8
108	0.000117	-0.56175	-4.0	-0.562	-3.8
109	0.000124	-0.55875	-3.9	-0.559	-3.8
110	0.00013	-0.55575	-3.9	-0.556	-3.8
111	0.000142	-0.55275	-3.9	-0.553	-3.8
112	0.000158	-0.54975	-3.8	-0.550	-3.8
113	0.000177	-0.54675	-3.8	-0.547	-3.7
114	0.000204	-0.54375	-3.7	-0.544	-3.7
115	0.000231	-0.54075	-3.7	-0.541	-3.7
116	0.000273	-0.53775	-3.6	-0.538	-3.7
117	0.000331	-0.53475	-3.5	-0.535	-3.7
118	0.000401	-0.53175	-3.4	-0.532	-3.7
119	0.000486	-0.52875	-3.4	-0.529	-3.7
120	0.000606	-0.52575	-3.3	-0.526	-3.7
121	0.000724	-0.52275	-3.2	-0.523	-3.7

Curve.Time	Curve.Current	Curve.Voltage	Disp.Current.Data	Disp.Voltage.Data	Anal.Current.Data
122	0.000879	-0.51975	-3.1	-0.520	-3.7
123	0.00106	-0.51675	-3.0	-0.517	-3.7
124	0.001243	-0.51375	-2.9	-0.514	-3.7
125	0.001447	-0.51075	-2.9	-0.511	-3.7
126	0.001611	-0.50775	-2.8	-0.508	-3.6
127	0.001739	-0.50475	-2.8	-0.505	-3.6
128	0.001849	-0.50175	-2.8	-0.502	-3.6
129	0.001961	-0.49875	-2.7	-0.499	-3.6
130	0.002092	-0.49575	-2.7	-0.496	-3.6
131	0.002192	-0.49275	-2.7	-0.493	-3.6
132	0.002324	-0.48975	-2.7	-0.490	-3.6
133	0.002413	-0.48675	-2.7	-0.487	-3.6
134	0.002496	-0.48375	-2.6	-0.484	-3.6
135	0.002589	-0.48075	-2.6	-0.481	-3.6
136	0.002653	-0.47775	-2.6	-0.478	-3.6
137	0.00272	-0.47475	-2.6	-0.475	-3.6
138	0.002771	-0.47175	-2.6	-0.472	-3.6
139	0.00284	-0.46875	-2.6	-0.469	-3.6
140	0.002904	-0.46575	-2.6	-0.466	-3.6

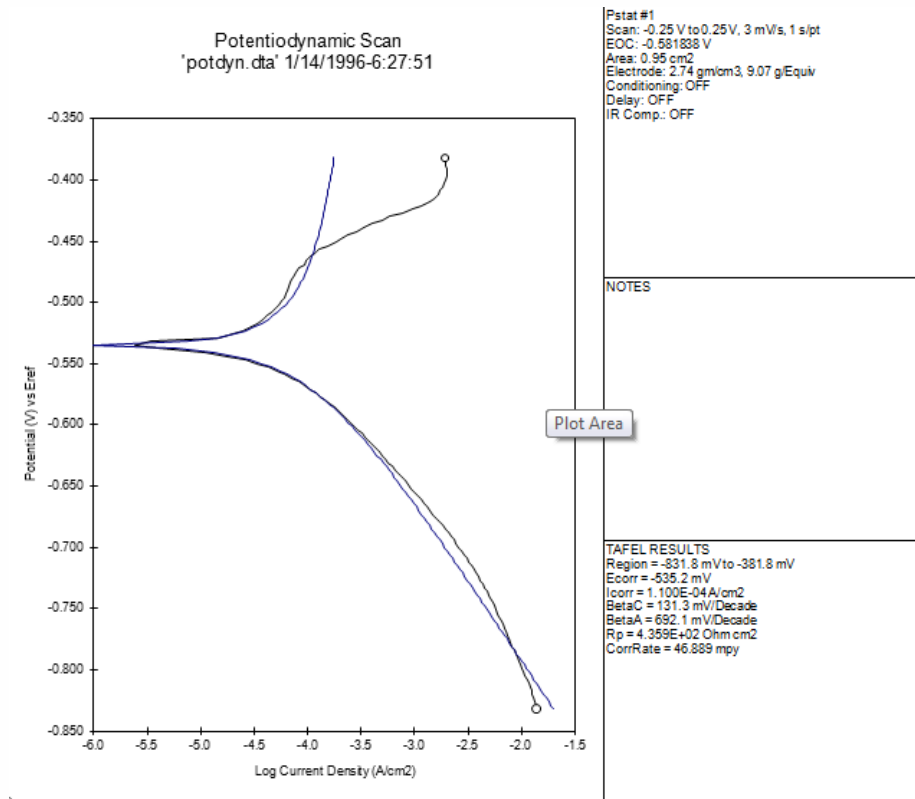




Curve.Time	Curve.Current	Curve.Voltage	Disp.Current.Data	Disp.Voltage.Data	Anal.Current.Data
1	-0.00902	-0.78625	-2.1	-0.786	-2.0
2	-0.00861	-0.78225	-2.1	-0.782	-2.0
3	-0.00817	-0.77825	-2.1	-0.778	-2.0
4	-0.00773	-0.77425	-2.1	-0.774	-2.1
5	-0.00728	-0.77025	-2.2	-0.770	-2.1
6	-0.00684	-0.76625	-2.2	-0.766	-2.1
7	-0.00641	-0.76225	-2.2	-0.762	-2.2
8	-0.00601	-0.75825	-2.2	-0.758	-2.2
9	-0.00562	-0.75425	-2.3	-0.754	-2.2
10	-0.00525	-0.75025	-2.3	-0.750	-2.3
11	-0.00491	-0.74625	-2.3	-0.746	-2.3
12	-0.00458	-0.74225	-2.4	-0.742	-2.4
13	-0.00427	-0.73825	-2.4	-0.738	-2.4
14	-0.00398	-0.73425	-2.4	-0.734	-2.4
15	-0.00371	-0.73025	-2.4	-0.730	-2.5
16	-0.00346	-0.72625	-2.5	-0.726	-2.5
17	-0.00322	-0.72225	-2.5	-0.722	-2.5
18	-0.003	-0.71825	-2.5	-0.718	-2.6
19	-0.00278	-0.71425	-2.6	-0.714	-2.6
20	-0.00258	-0.71025	-2.6	-0.710	-2.6
21	-0.0024	-0.70625	-2.6	-0.706	-2.7
22	-0.00222	-0.70225	-2.7	-0.702	-2.7
23	-0.00206	-0.69825	-2.7	-0.698	-2.7
24	-0.00191	-0.69425	-2.7	-0.694	-2.8
25	-0.00177	-0.69025	-2.8	-0.690	-2.8
26	-0.00163	-0.68625	-2.8	-0.686	-2.8
27	-0.00151	-0.68225	-2.8	-0.682	-2.9

Curve.Time	Curve.Current	Curve.Voltage	Disp.Current.Data	Disp.Voltage.Data	Anal.Current.Data
28	-0.00139	-0.67825	-2.9	-0.678	-2.9
29	-0.00128	-0.67425	-2.9	-0.674	-3.0
30	-0.00118	-0.67025	-2.9	-0.670	-3.0
31	-0.00109	-0.66625	-3.0	-0.666	-3.0
32	-0.001	-0.66225	-3.0	-0.662	-3.1
33	-0.00092	-0.65825	-3.1	-0.658	-3.1
34	-0.00084	-0.65425	-3.1	-0.654	-3.1
35	-0.00077	-0.65025	-3.1	-0.650	-3.2
36	-0.00071	-0.64625	-3.2	-0.646	-3.2
37	-0.00065	-0.64225	-3.2	-0.642	-3.2
38	-0.00059	-0.63825	-3.2	-0.638	-3.3
39	-0.00054	-0.63425	-3.3	-0.634	-3.3
40	-0.00049	-0.63025	-3.3	-0.630	-3.4
41	-0.00045	-0.62625	-3.4	-0.626	-3.4
42	-0.00041	-0.62225	-3.4	-0.622	-3.4
43	-0.00037	-0.61825	-3.4	-0.618	-3.5
44	-0.00034	-0.61425	-3.5	-0.614	-3.5
45	-0.00031	-0.61025	-3.5	-0.610	-3.6
46	-0.00028	-0.60625	-3.6	-0.606	-3.6
47	-0.00025	-0.60225	-3.6	-0.602	-3.6
48	-0.00023	-0.59825	-3.7	-0.598	-3.7
49	-0.00021	-0.59425	-3.7	-0.594	-3.7
50	-0.00019	-0.59025	-3.7	-0.590	-3.8
51	-0.00017	-0.58625	-3.8	-0.586	-3.8
52	-0.00015	-0.58225	-3.8	-0.582	-3.9
53	-0.00013	-0.57825	-3.9	-0.578	-3.9
54	-0.00012	-0.57425	-3.9	-0.574	-4.0
55	-0.0001	-0.57025	-4.0	-0.570	-4.0
56	-9.2E-05	-0.56625	-4.1	-0.566	-4.1
57	-8.1E-05	-0.56225	-4.1	-0.562	-4.1
58	-7E-05	-0.55825	-4.2	-0.558	-4.2
59	-6E-05	-0.55425	-4.2	-0.554	-4.2
60	-5.2E-05	-0.55025	-4.3	-0.550	-4.3
61	-4.3E-05	-0.54625	-4.4	-0.546	-4.4
62	-3.5E-05	-0.54225	-4.5	-0.542	-4.5
63	-2.8E-05	-0.53825	-4.6	-0.538	-4.6
64	-2.2E-05	-0.53425	-4.7	-0.534	-4.7
65	-1.5E-05	-0.53025	-4.8	-0.530	-4.8
66	-9.5E-06	-0.52625	-5.0	-0.526	-5.1
67	-4.1E-06	-0.52225	-5.4	-0.522	-5.4
68	9.69E-07	-0.51825	-6.0	-0.518	-6.1
69	3.28E-06	-0.51425	-5.5	-0.514	-5.3
70	1.01E-05	-0.51025	-5.0	-0.510	-5.0
71	1.43E-05	-0.50625	-4.9	-0.506	-4.9
72	1.83E-05	-0.50225	-4.8	-0.502	-4.8
73	2.22E-05	-0.49825	-4.7	-0.498	-4.7
74	2.57E-05	-0.49425	-4.6	-0.494	-4.6
75	2.9E-05	-0.49025	-4.6	-0.490	-4.6
76	3.17E-05	-0.48625	-4.5	-0.486	-4.5

Curve.Time	Curve.Current	Curve.Voltage	Disp.Current.Data	Disp.Voltage.Data	Anal.Current.Data
77	3.41E-05	-0.48225	-4.5	-0.482	-4.5
79	3.75E-05	-0.47425	-4.4	-0.474	-4.5
80	3.89E-05	-0.47025	-4.4	-0.470	-4.4
81	4.01E-05	-0.46625	-4.4	-0.466	-4.4
82	4.15E-05	-0.46225	-4.4	-0.462	-4.4
83	4.27E-05	-0.45825	-4.4	-0.458	-4.4
84	4.4E-05	-0.45425	-4.4	-0.454	-4.4
85	4.51E-05	-0.45025	-4.4	-0.450	-4.3
86	4.61E-05	-0.44625	-4.4	-0.446	-4.3
87	4.71E-05	-0.44225	-4.3	-0.442	-4.3
88	4.79E-05	-0.43825	-4.3	-0.438	-4.3
89	4.87E-05	-0.43425	-4.3	-0.434	-4.3
90	4.94E-05	-0.43025	-4.3	-0.430	-4.3
91	5.02E-05	-0.42625	-4.3	-0.426	-4.3
92	5.09E-05	-0.42225	-4.3	-0.422	-4.3
93	5.16E-05	-0.41825	-4.3	-0.418	-4.2
94	5.23E-05	-0.41425	-4.3	-0.414	-4.2
95	5.31E-05	-0.41025	-4.3	-0.410	-4.2
96	5.39E-05	-0.40625	-4.3	-0.406	-4.2
97	5.47E-05	-0.40225	-4.3	-0.402	-4.2
98	5.56E-05	-0.39825	-4.3	-0.398	-4.2
99	5.66E-05	-0.39425	-4.3	-0.394	-4.2
100	5.77E-05	-0.39025	-4.3	-0.390	-4.2
101	5.9E-05	-0.38625	-4.2	-0.386	-4.2
102	6.05E-05	-0.38225	-4.2	-0.382	-4.2
103	6.2E-05	-0.37825	-4.2	-0.378	-4.2
104	6.37E-05	-0.37425	-4.2	-0.374	-4.2
105	6.56E-05	-0.37025	-4.2	-0.370	-4.2
106	6.75E-05	-0.36625	-4.2	-0.366	-4.2
107	6.96E-05	-0.36225	-4.2	-0.362	-4.2
108	7.18E-05	-0.35825	-4.2	-0.358	-4.2
109	7.38E-05	-0.35425	-4.1	-0.354	-4.2
110	7.59E-05	-0.35025	-4.1	-0.350	-4.2
111	7.79E-05	-0.34625	-4.1	-0.346	-4.1
112	7.99E-05	-0.34225	-4.1	-0.342	-4.1
113	8.18E-05	-0.33825	-4.1	-0.338	-4.1
114	8.37E-05	-0.33425	-4.1	-0.334	-4.1
115	8.54E-05	-0.33025	-4.1	-0.330	-4.1
116	8.7E-05	-0.32625	-4.1	-0.326	-4.1
117	8.87E-05	-0.32225	-4.1	-0.322	-4.1
118	9.03E-05	-0.31825	-4.1	-0.318	-4.1
119	9.18E-05	-0.31425	-4.1	-0.314	-4.1
120	9.34E-05	-0.31025	-4.0	-0.310	-4.1
121	0.000095	-0.30625	-4.0	-0.306	-4.1
122	9.66E-05	-0.30225	-4.0	-0.302	-4.1
123	9.82E-05	-0.29825	-4.0	-0.298	-4.1
124	9.99E-05	-0.29425	-4.0	-0.294	-4.1
125	0.000102	-0.29025	-4.0	-0.290	-4.1

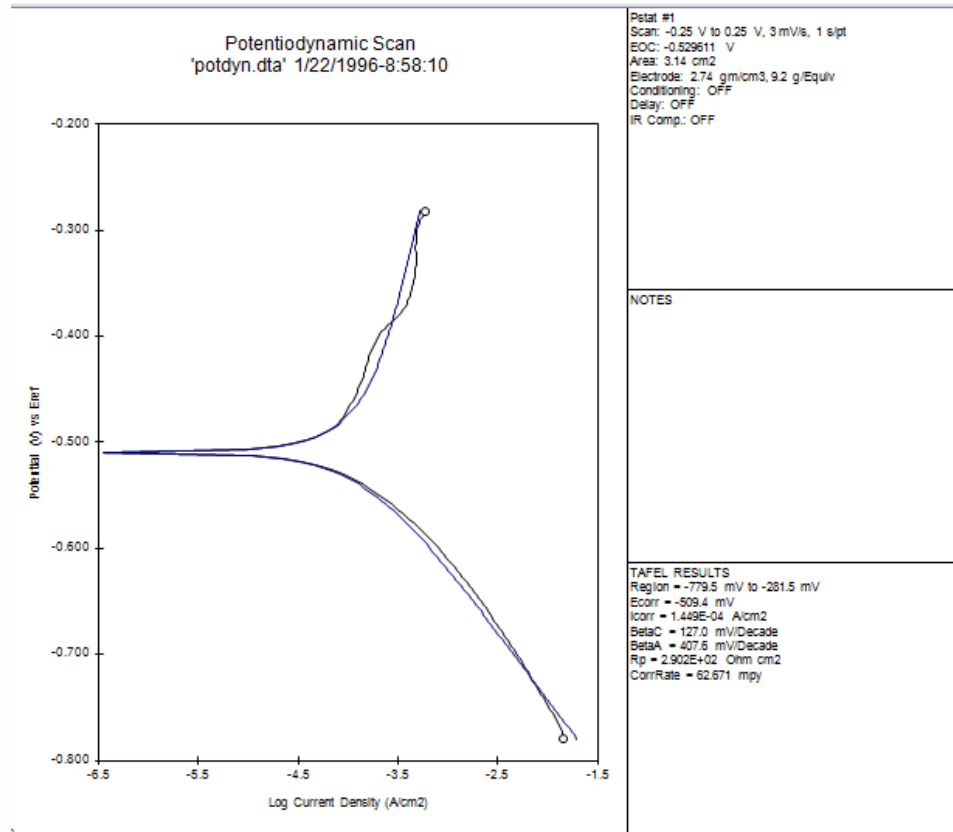


Curve.Time	Curve.Current	Curve.Voltage	Disp.Current.Data	Disp.Voltage.Data	Anal.Current.Data
1	-0.01309	-0.83175	-1.9	-0.832	-1.7
2	-0.01287	-0.82875	-1.9	-0.829	-1.7
3	-0.01263	-0.82575	-1.9	-0.826	-1.7
4	-0.01235	-0.82275	-1.9	-0.823	-1.8
5	-0.01202	-0.81975	-1.9	-0.820	-1.8
6	-0.01169	-0.81675	-1.9	-0.817	-1.8
7	-0.01136	-0.81375	-1.9	-0.814	-1.8
8	-0.01099	-0.81075	-1.9	-0.811	-1.9
9	-0.01066	-0.80775	-2.0	-0.808	-1.9
10	-0.01029	-0.80475	-2.0	-0.805	-1.9
11	-0.00994	-0.80175	-2.0	-0.802	-1.9
12	-0.00962	-0.79875	-2.0	-0.799	-2.0
13	-0.0093	-0.79575	-2.0	-0.796	-2.0
14	-0.00897	-0.79275	-2.0	-0.793	-2.0
15	-0.00866	-0.78975	-2.0	-0.790	-2.0
16	-0.00837	-0.78675	-2.1	-0.787	-2.0
17	-0.0081	-0.78375	-2.1	-0.784	-2.1
18	-0.00781	-0.78075	-2.1	-0.781	-2.1
19	-0.00755	-0.77775	-2.1	-0.778	-2.1
20	-0.0073	-0.77475	-2.1	-0.775	-2.1
21	-0.00704	-0.77175	-2.1	-0.772	-2.2
22	-0.0068	-0.76875	-2.1	-0.769	-2.2
23	-0.00656	-0.76575	-2.2	-0.766	-2.2
24	-0.00634	-0.76275	-2.2	-0.763	-2.2

Curve.Time	Curve.Current	Curve.Voltage	Disp.Current.Data	Disp.Voltage.Data	Anal.Current.Data
25	-0.00612	-0.75975	-2.2	-0.760	-2.3
26	-0.00589	-0.75675	-2.2	-0.757	-2.3
27	-0.00568	-0.75375	-2.2	-0.754	-2.3
28	-0.00548	-0.75075	-2.2	-0.751	-2.3
29	-0.00526	-0.74775	-2.3	-0.748	-2.3
30	-0.00507	-0.74475	-2.3	-0.745	-2.4
31	-0.00487	-0.74175	-2.3	-0.742	-2.4
32	-0.00467	-0.73875	-2.3	-0.739	-2.4
33	-0.00448	-0.73575	-2.3	-0.736	-2.4
34	-0.0043	-0.73275	-2.3	-0.733	-2.5
35	-0.00411	-0.72975	-2.4	-0.730	-2.5
36	-0.00393	-0.72675	-2.4	-0.727	-2.5
37	-0.00376	-0.72375	-2.4	-0.724	-2.5
38	-0.00358	-0.72075	-2.4	-0.721	-2.6
39	-0.00341	-0.71775	-2.4	-0.718	-2.6
40	-0.00324	-0.71475	-2.5	-0.715	-2.6
41	-0.00308	-0.71175	-2.5	-0.712	-2.6
42	-0.00293	-0.70875	-2.5	-0.709	-2.6
43	-0.00277	-0.70575	-2.5	-0.706	-2.7
44	-0.00261	-0.70275	-2.6	-0.703	-2.7
45	-0.00247	-0.69975	-2.6	-0.700	-2.7
46	-0.00233	-0.69675	-2.6	-0.697	-2.7
47	-0.0022	-0.69375	-2.6	-0.694	-2.8
48	-0.00207	-0.69075	-2.7	-0.691	-2.8
49	-0.00195	-0.68775	-2.7	-0.688	-2.8
50	-0.00182	-0.68475	-2.7	-0.685	-2.8
51	-0.00172	-0.68175	-2.7	-0.682	-2.9
52	-0.00161	-0.67875	-2.8	-0.679	-2.9
53	-0.00151	-0.67575	-2.8	-0.676	-2.9
54	-0.00141	-0.67275	-2.8	-0.673	-2.9
55	-0.00132	-0.66975	-2.9	-0.670	-3.0
56	-0.00124	-0.66675	-2.9	-0.667	-3.0
57	-0.00116	-0.66375	-2.9	-0.664	-3.0
58	-0.00109	-0.66075	-2.9	-0.661	-3.0
59	-0.00101	-0.65775	-3.0	-0.658	-3.1
60	-0.00095	-0.65475	-3.0	-0.655	-3.1
61	-0.00089	-0.65175	-3.0	-0.652	-3.1
62	-0.00082	-0.64875	-3.1	-0.649	-3.1
63	-0.00077	-0.64575	-3.1	-0.646	-3.2
64	-0.00072	-0.64275	-3.1	-0.643	-3.2
65	-0.00067	-0.63975	-3.2	-0.640	-3.2
66	-0.00063	-0.63675	-3.2	-0.637	-3.2
67	-0.00058	-0.63375	-3.2	-0.634	-3.3
68	-0.00054	-0.63075	-3.2	-0.631	-3.3
69	-0.00051	-0.62775	-3.3	-0.628	-3.3
70	-0.00047	-0.62475	-3.3	-0.625	-3.3
71	-0.00044	-0.62175	-3.3	-0.622	-3.4
72	-0.00041	-0.61875	-3.4	-0.619	-3.4
73	-0.00038	-0.61575	-3.4	-0.616	-3.4

Curve.Time	Curve.Current	Curve.Voltage	Disp.Current.Data	Disp.Voltage.Data	Anal.Current.Data
74	-0.00035	-0.61275	-3.4	-0.613	-3.5
75	-0.00033	-0.60975	-3.5	-0.610	-3.5
76	-0.0003	-0.60675	-3.5	-0.607	-3.5
77	-0.00028	-0.60375	-3.5	-0.604	-3.6
78	-0.00026	-0.60075	-3.6	-0.601	-3.6
79	-0.00024	-0.59775	-3.6	-0.598	-3.6
80	-0.00022	-0.59475	-3.6	-0.595	-3.7
81	-0.0002	-0.59175	-3.7	-0.592	-3.7
82	-0.00018	-0.58875	-3.7	-0.589	-3.7
83	-0.00017	-0.58575	-3.7	-0.586	-3.8
84	-0.00015	-0.58275	-3.8	-0.583	-3.8
85	-0.00014	-0.57975	-3.8	-0.580	-3.8
86	-0.00013	-0.57675	-3.9	-0.577	-3.9
87	-0.00011	-0.57375	-3.9	-0.574	-3.9
88	-0.0001	-0.57075	-4.0	-0.571	-4.0
89	-8.9E-05	-0.56775	-4.0	-0.568	-4.0
90	-7.9E-05	-0.56475	-4.1	-0.565	-4.1
91	-6.8E-05	-0.56175	-4.1	-0.562	-4.1
92	-5.8E-05	-0.55875	-4.2	-0.559	-4.2
93	-4.9E-05	-0.55575	-4.3	-0.556	-4.3
94	-4E-05	-0.55275	-4.4	-0.553	-4.3
95	-3.2E-05	-0.54975	-4.5	-0.550	-4.4
96	-2.5E-05	-0.54675	-4.6	-0.547	-4.5
97	-1.7E-05	-0.54375	-4.7	-0.544	-4.7
98	-1E-05	-0.54075	-5.0	-0.541	-4.9
99	-3.9E-06	-0.53775	-5.4	-0.538	-5.2
100	2.33E-06	-0.53475	-5.6	-0.535	-6.0
101	3.28E-06	-0.53175	-5.5	-0.532	-5.1
102	1.38E-05	-0.52875	-4.8	-0.529	-4.9
103	1.89E-05	-0.52575	-4.7	-0.526	-4.7
104	2.37E-05	-0.52275	-4.6	-0.523	-4.6
105	2.79E-05	-0.51975	-4.5	-0.520	-4.5
106	3.22E-05	-0.51675	-4.5	-0.517	-4.4
107	3.62E-05	-0.51375	-4.4	-0.514	-4.4
108	3.98E-05	-0.51075	-4.4	-0.511	-4.3
109	4.36E-05	-0.50775	-4.3	-0.508	-4.3
110	4.76E-05	-0.50475	-4.3	-0.505	-4.2
111	5.09E-05	-0.50175	-4.3	-0.502	-4.2
112	5.43E-05	-0.49875	-4.2	-0.499	-4.2
113	5.73E-05	-0.49575	-4.2	-0.496	-4.2
114	5.95E-05	-0.49275	-4.2	-0.493	-4.1
115	6.11E-05	-0.48975	-4.2	-0.490	-4.1
116	6.27E-05	-0.48675	-4.2	-0.487	-4.1
117	6.51E-05	-0.48375	-4.2	-0.484	-4.1
118	6.7E-05	-0.48075	-4.2	-0.481	-4.0
119	7.11E-05	-0.47775	-4.1	-0.478	-4.0
120	7.4E-05	-0.47475	-4.1	-0.475	-4.0
121	7.96E-05	-0.47175	-4.1	-0.472	-4.0
122	8.78E-05	-0.46875	-4.0	-0.469	-4.0

Curve.Time	Curve.Current	Curve.Voltage	Disp.Current.Data	Disp.Voltage.Data	Anal.Current.Data
123	9.2E-05	-0.46575	-4.0	-0.466	-4.0
124	0.0001	-0.46275	-4.0	-0.463	-4.0
125	0.000112	-0.45975	-3.9	-0.460	-4.0
126	0.000122	-0.45675	-3.9	-0.457	-3.9
127	0.000146	-0.45375	-3.8	-0.454	-3.9
128	0.000178	-0.45075	-3.7	-0.451	-3.9
129	0.000192	-0.44775	-3.7	-0.448	-3.9
130	0.000225	-0.44475	-3.6	-0.445	-3.9
131	0.000268	-0.44175	-3.5	-0.442	-3.9
132	0.000317	-0.43875	-3.5	-0.439	-3.9
133	0.000385	-0.43575	-3.4	-0.436	-3.9
134	0.000467	-0.43275	-3.3	-0.433	-3.9
135	0.000556	-0.42975	-3.2	-0.430	-3.9
136	0.000726	-0.42675	-3.1	-0.427	-3.8
137	0.000902	-0.42375	-3.0	-0.424	-3.8
138	0.001105	-0.42075	-2.9	-0.421	-3.8
139	0.001318	-0.41775	-2.9	-0.418	-3.8
140	0.001462	-0.41475	-2.8	-0.415	-3.8
141	0.001584	-0.41175	-2.8	-0.412	-3.8
142	0.001646	-0.40875	-2.8	-0.409	-3.8
143	0.001745	-0.40575	-2.7	-0.406	-3.8
144	0.001811	-0.40275	-2.7	-0.403	-3.8
145	0.001831	-0.39975	-2.7	-0.400	-3.8
146	0.001889	-0.39675	-2.7	-0.397	-3.8
147	0.001902	-0.39375	-2.7	-0.394	-3.8
148	0.001909	-0.39075	-2.7	-0.391	-3.8
149	0.001875	-0.38775	-2.7	-0.388	-3.8
150	0.001852	-0.38475	-2.7	-0.385	-3.8
151	0.001828	-0.38175	-2.7	-0.382	-3.8



Curve.Time	Curve.Current	Curve.Voltage	Disp.Current.Data	Disp.Voltage.Data	Anal.Current.Data
1	-0.04518	-0.7795	-1.8	-0.780	-1.7
2	-0.04454	-0.7765	-1.8	-0.777	-1.7
3	-0.04345	-0.7735	-1.9	-0.774	-1.8
4	-0.04209	-0.7705	-1.9	-0.771	-1.8
5	-0.04073	-0.7675	-1.9	-0.768	-1.8
6	-0.03926	-0.7645	-1.9	-0.765	-1.8
7	-0.03781	-0.7615	-1.9	-0.762	-1.9
8	-0.03637	-0.7585	-1.9	-0.759	-1.9
9	-0.03494	-0.7555	-2.0	-0.756	-1.9
10	-0.0336	-0.7525	-2.0	-0.753	-1.9
11	-0.03218	-0.7495	-2.0	-0.750	-1.9
12	-0.03079	-0.7465	-2.0	-0.747	-2.0
13	-0.02949	-0.7435	-2.0	-0.744	-2.0
14	-0.02828	-0.7405	-2.0	-0.741	-2.0
15	-0.02704	-0.7375	-2.1	-0.738	-2.0
16	-0.02589	-0.7345	-2.1	-0.735	-2.1
17	-0.02486	-0.7315	-2.1	-0.732	-2.1
18	-0.02378	-0.7285	-2.1	-0.729	-2.1
19	-0.02266	-0.7255	-2.1	-0.726	-2.1
20	-0.02171	-0.7225	-2.2	-0.723	-2.2
21	-0.02072	-0.7195	-2.2	-0.720	-2.2

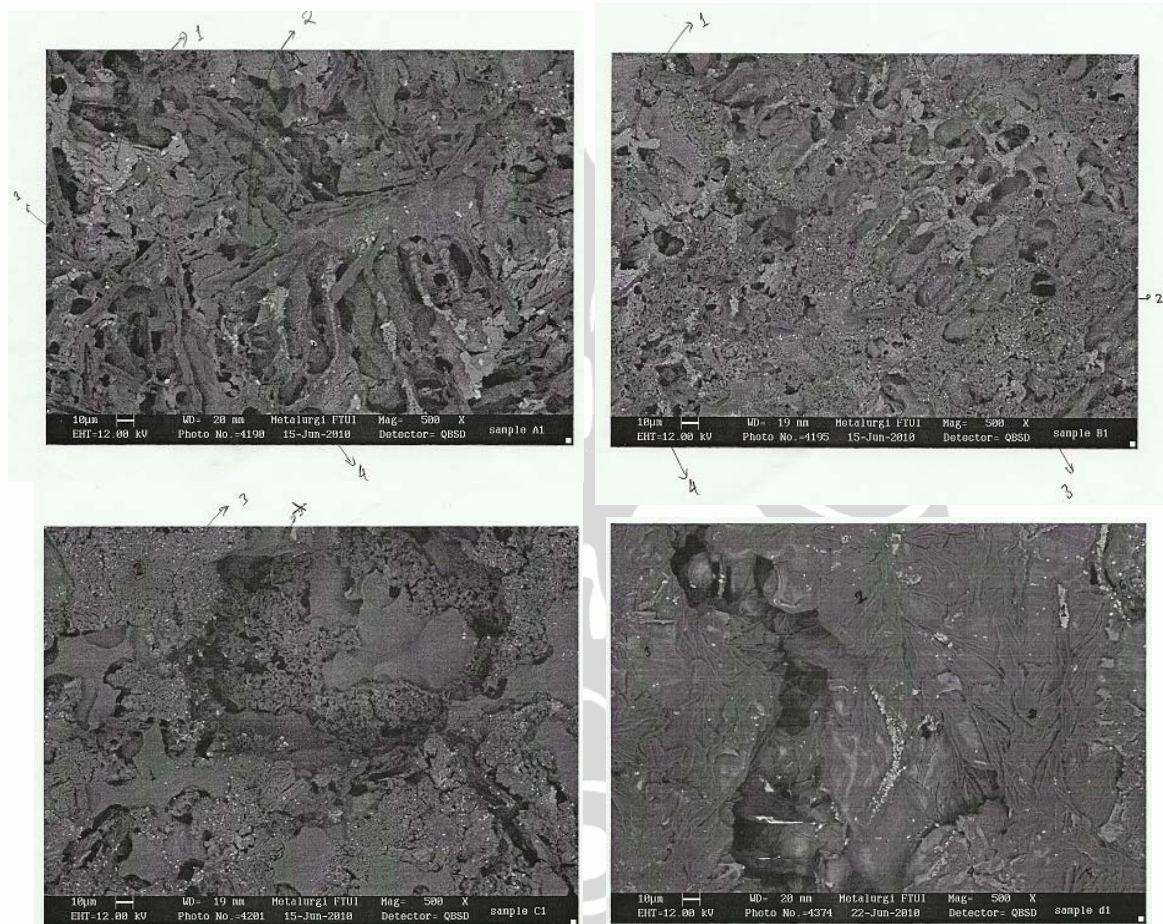
Curve.Time	Curve.Current	Curve.Voltage	Disp.Current.Data	Disp.Voltage.Data	Anal.Current.Data
22	-0.01981	-0.7165	-2.2	-0.717	-2.2
23	-0.01885	-0.7135	-2.2	-0.714	-2.2
24	-0.01816	-0.7105	-2.2	-0.711	-2.3
25	-0.01724	-0.7075	-2.3	-0.708	-2.3
26	-0.0165	-0.7045	-2.3	-0.705	-2.3
27	-0.01573	-0.7015	-2.3	-0.702	-2.3
28	-0.01498	-0.6985	-2.3	-0.699	-2.4
29	-0.01431	-0.6955	-2.3	-0.696	-2.4
30	-0.01367	-0.6925	-2.4	-0.693	-2.4
31	-0.01298	-0.6895	-2.4	-0.690	-2.4
32	-0.01244	-0.6865	-2.4	-0.687	-2.5
33	-0.01178	-0.6835	-2.4	-0.684	-2.5
34	-0.01125	-0.6805	-2.4	-0.681	-2.5
35	-0.01075	-0.6775	-2.5	-0.678	-2.5
36	-0.0102	-0.6745	-2.5	-0.675	-2.5
37	-0.00975	-0.6715	-2.5	-0.672	-2.6
38	-0.00923	-0.6685	-2.5	-0.669	-2.6
39	-0.00885	-0.6655	-2.6	-0.666	-2.6
40	-0.00836	-0.6625	-2.6	-0.663	-2.6
41	-0.00796	-0.6595	-2.6	-0.660	-2.7
42	-0.00755	-0.6565	-2.6	-0.657	-2.7
43	-0.00716	-0.6535	-2.6	-0.654	-2.7
44	-0.00679	-0.6505	-2.7	-0.651	-2.7
45	-0.00645	-0.6475	-2.7	-0.648	-2.8
46	-0.00614	-0.6445	-2.7	-0.645	-2.8
47	-0.0058	-0.6415	-2.7	-0.642	-2.8
48	-0.00547	-0.6385	-2.8	-0.639	-2.8
49	-0.00519	-0.6355	-2.8	-0.636	-2.9
50	-0.0049	-0.6325	-2.8	-0.633	-2.9
51	-0.00463	-0.6295	-2.8	-0.630	-2.9
52	-0.00436	-0.6265	-2.9	-0.627	-2.9
53	-0.00413	-0.6235	-2.9	-0.624	-3.0
54	-0.00389	-0.6205	-2.9	-0.621	-3.0
55	-0.00366	-0.6175	-2.9	-0.618	-3.0
56	-0.00342	-0.6145	-3.0	-0.615	-3.0
57	-0.00324	-0.6115	-3.0	-0.612	-3.1
58	-0.00304	-0.6085	-3.0	-0.609	-3.1
59	-0.00285	-0.6055	-3.0	-0.606	-3.1
60	-0.00266	-0.6025	-3.1	-0.603	-3.2
61	-0.00249	-0.5995	-3.1	-0.600	-3.2
62	-0.00233	-0.5965	-3.1	-0.597	-3.2
63	-0.00217	-0.5935	-3.2	-0.594	-3.2
64	-0.00202	-0.5905	-3.2	-0.591	-3.3
65	-0.00188	-0.5875	-3.2	-0.588	-3.3
66	-0.00176	-0.5845	-3.3	-0.585	-3.3
67	-0.00163	-0.5815	-3.3	-0.582	-3.4
68	-0.00151	-0.5785	-3.3	-0.579	-3.4
69	-0.00139	-0.5755	-3.4	-0.576	-3.4
70	-0.00129	-0.5725	-3.4	-0.573	-3.5

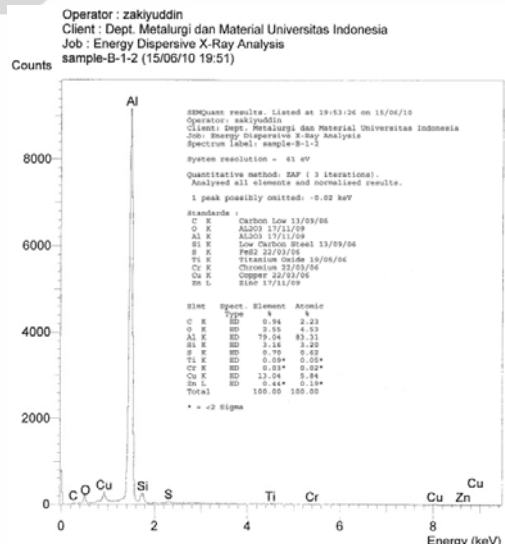
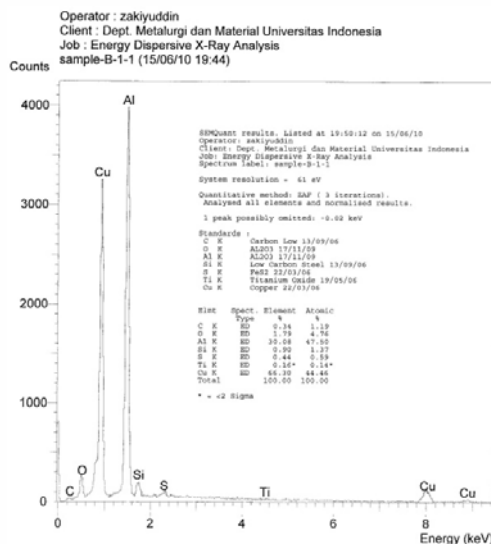
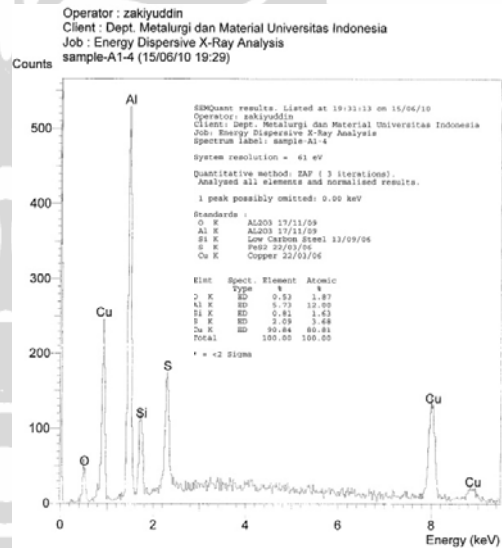
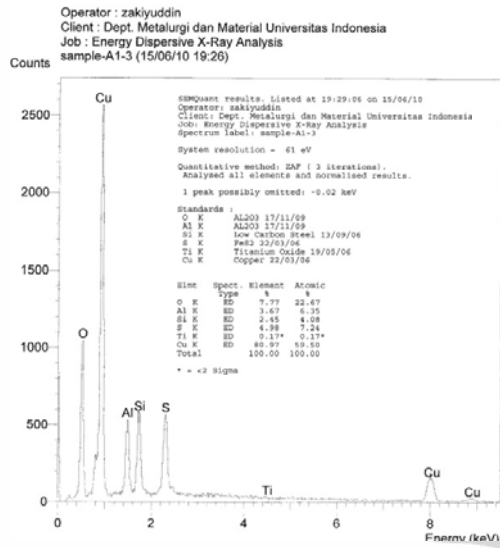
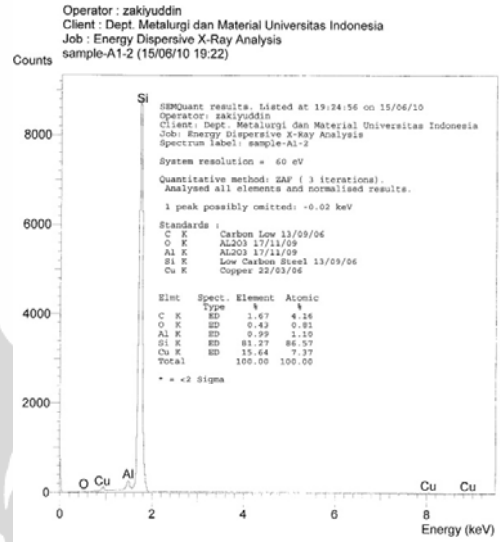
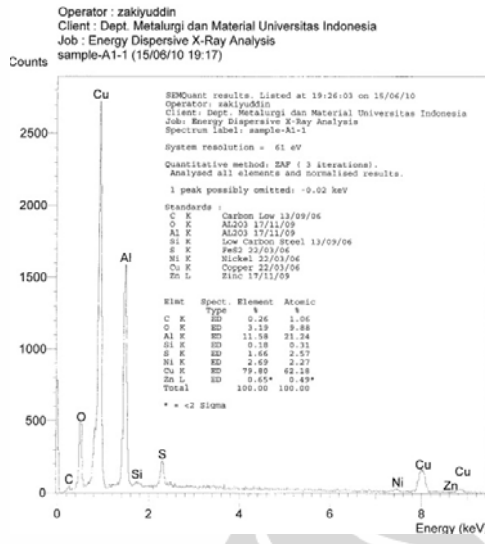
Curve.Time	Curve.Current	Curve.Voltage	Disp.Current.Data	Disp.Voltage.Data	Anal.Current.Data
71	-0.00119	-0.5695	-3.4	-0.570	-3.5
72	-0.00109	-0.5665	-3.5	-0.567	-3.5
73	-0.001	-0.5635	-3.5	-0.564	-3.6
74	-0.00092	-0.5605	-3.5	-0.561	-3.6
75	-0.00084	-0.5575	-3.6	-0.558	-3.6
76	-0.00077	-0.5545	-3.6	-0.555	-3.7
77	-0.00069	-0.5515	-3.7	-0.552	-3.7
78	-0.00062	-0.5485	-3.7	-0.549	-3.7
79	-0.00056	-0.5455	-3.8	-0.546	-3.8
80	-0.0005	-0.5425	-3.8	-0.543	-3.8
81	-0.00044	-0.5395	-3.9	-0.540	-3.9
82	-0.00038	-0.5365	-3.9	-0.537	-3.9
83	-0.00033	-0.5335	-4.0	-0.534	-4.0
84	-0.00028	-0.5305	-4.1	-0.531	-4.1
85	-0.00023	-0.5275	-4.1	-0.528	-4.2
86	-0.00019	-0.5245	-4.2	-0.525	-4.2
87	-0.00015	-0.5215	-4.3	-0.522	-4.3
88	-0.00011	-0.5185	-4.5	-0.519	-4.5
89	-7.2E-05	-0.5155	-4.6	-0.516	-4.7
90	-3.5E-05	-0.5125	-4.9	-0.513	-5.0
91	-1.1E-06	-0.5095	-6.4	-0.510	-6.4
92	3.08E-05	-0.5065	-5.0	-0.507	-5.0
93	6.19E-05	-0.5035	-4.7	-0.504	-4.7
94	9.15E-05	-0.5005	-4.5	-0.501	-4.5
95	0.000119	-0.4975	-4.4	-0.498	-4.4
96	0.000146	-0.4945	-4.3	-0.495	-4.3
97	0.000173	-0.4915	-4.3	-0.492	-4.3
98	0.000198	-0.4885	-4.2	-0.489	-4.2
99	0.000222	-0.4855	-4.2	-0.486	-4.1
100	0.000244	-0.4825	-4.1	-0.483	-4.1
101	0.000263	-0.4795	-4.1	-0.480	-4.1
102	0.000279	-0.4765	-4.1	-0.477	-4.0
103	0.000293	-0.4735	-4.0	-0.474	-4.0
104	0.000305	-0.4705	-4.0	-0.471	-4.0
105	0.000318	-0.4675	-4.0	-0.468	-3.9
106	0.000331	-0.4645	-4.0	-0.465	-3.9
107	0.000345	-0.4615	-4.0	-0.462	-3.9
108	0.000358	-0.4585	-3.9	-0.459	-3.9
109	0.000372	-0.4555	-3.9	-0.456	-3.8
110	0.000385	-0.4525	-3.9	-0.453	-3.8
111	0.000398	-0.4495	-3.9	-0.450	-3.8
112	0.00041	-0.4465	-3.9	-0.447	-3.8
113	0.000422	-0.4435	-3.9	-0.444	-3.8
114	0.000433	-0.4405	-3.9	-0.441	-3.8
115	0.000444	-0.4375	-3.8	-0.438	-3.7
116	0.000455	-0.4345	-3.8	-0.435	-3.7
117	0.000465	-0.4315	-3.8	-0.432	-3.7
118	0.000475	-0.4285	-3.8	-0.429	-3.7
119	0.000484	-0.4255	-3.8	-0.426	-3.7

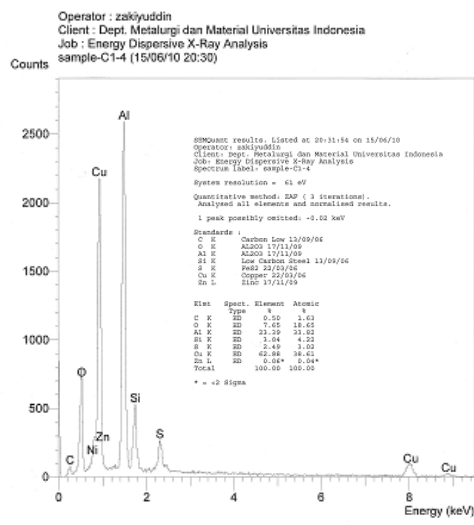
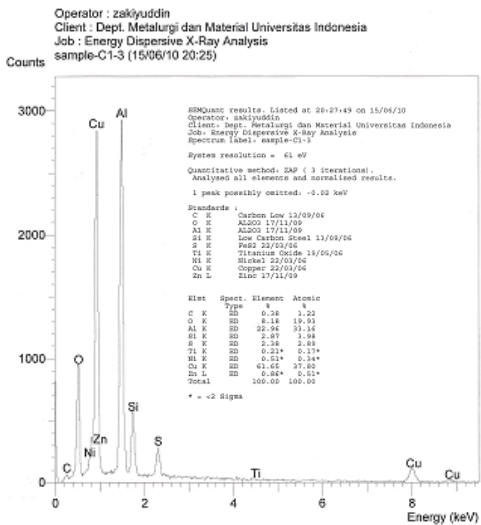
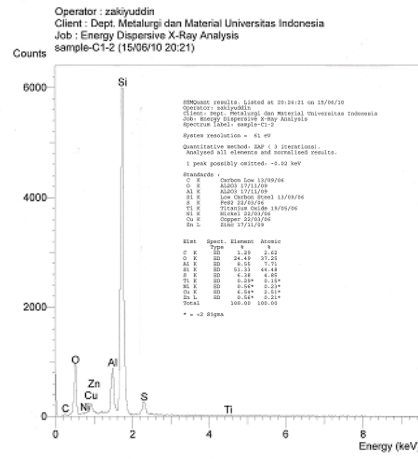
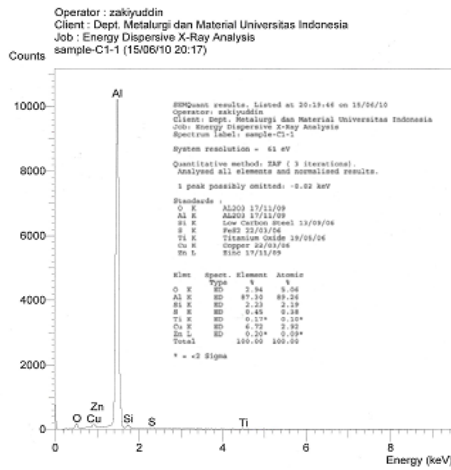
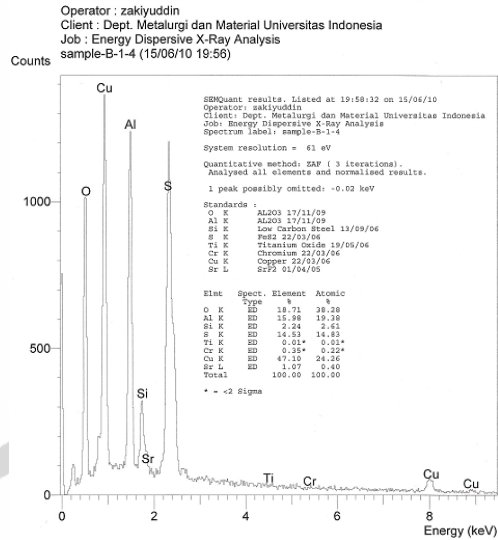
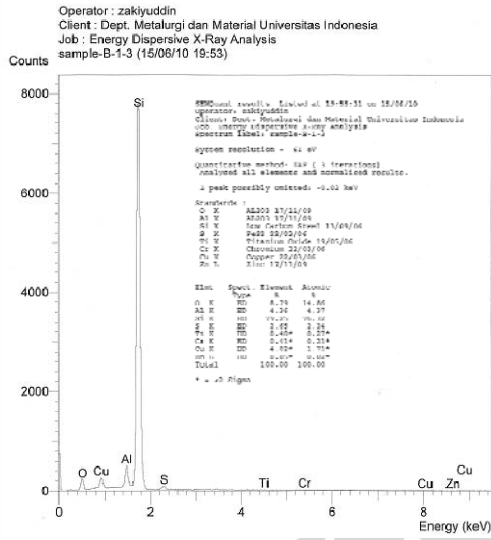
Curve.Time	Curve.Current	Curve.Voltage	Disp.Current.Data	Disp.Voltage.Data	Anal.Current.Data
120	0.000494	-0.4225	-3.8	-0.423	-3.7
121	0.000503	-0.4195	-3.8	-0.420	-3.7
122	0.000514	-0.4165	-3.8	-0.417	-3.7
123	0.000532	-0.4135	-3.8	-0.414	-3.7
124	0.000553	-0.4105	-3.8	-0.411	-3.6
125	0.000576	-0.4075	-3.7	-0.408	-3.6
126	0.000604	-0.4045	-3.7	-0.405	-3.6
127	0.000633	-0.4015	-3.7	-0.402	-3.6
128	0.000646	-0.3985	-3.7	-0.399	-3.6
129	0.00068	-0.3955	-3.7	-0.396	-3.6
130	0.000734	-0.3925	-3.6	-0.393	-3.6
131	0.000773	-0.3895	-3.6	-0.390	-3.6
132	0.00085	-0.3865	-3.6	-0.387	-3.6
133	0.000927	-0.3835	-3.5	-0.384	-3.6
134	0.000987	-0.3805	-3.5	-0.381	-3.5
135	0.001066	-0.3775	-3.5	-0.378	-3.5
136	0.001122	-0.3745	-3.4	-0.375	-3.5
137	0.001173	-0.3715	-3.4	-0.372	-3.5
138	0.001221	-0.3685	-3.4	-0.369	-3.5
139	0.001246	-0.3655	-3.4	-0.366	-3.5
140	0.001309	-0.3625	-3.4	-0.363	-3.5
141	0.001323	-0.3595	-3.4	-0.360	-3.5
142	0.001346	-0.3565	-3.4	-0.357	-3.5
143	0.001362	-0.3535	-3.4	-0.354	-3.5
144	0.001405	-0.3505	-3.3	-0.351	-3.5
145	0.001421	-0.3475	-3.3	-0.348	-3.5
146	0.001446	-0.3445	-3.3	-0.345	-3.4
147	0.001466	-0.3415	-3.3	-0.342	-3.4
148	0.00148	-0.3385	-3.3	-0.339	-3.4
149	0.001487	-0.3355	-3.3	-0.336	-3.4
150	0.0015	-0.3325	-3.3	-0.333	-3.4
151	0.001513	-0.3295	-3.3	-0.330	-3.4
152	0.00152	-0.3265	-3.3	-0.327	-3.4
153	0.0015	-0.3235	-3.3	-0.324	-3.4
154	0.001506	-0.3205	-3.3	-0.321	-3.4
155	0.001474	-0.3175	-3.3	-0.318	-3.4
156	0.001478	-0.3145	-3.3	-0.315	-3.4
157	0.001507	-0.3115	-3.3	-0.312	-3.4
158	0.001509	-0.3085	-3.3	-0.309	-3.3
159	0.001512	-0.3055	-3.3	-0.306	-3.3
160	0.00153	-0.3025	-3.3	-0.303	-3.3
161	0.001549	-0.2995	-3.3	-0.300	-3.3
162	0.00158	-0.2965	-3.3	-0.297	-3.3
163	0.001621	-0.2935	-3.3	-0.294	-3.3
164	0.00166	-0.2905	-3.3	-0.291	-3.3
165	0.001754	-0.2875	-3.3	-0.288	-3.3
166	0.001833	-0.2845	-3.2	-0.285	-3.3
167	0.001872	-0.2815	-3.2	-0.282	-3.3

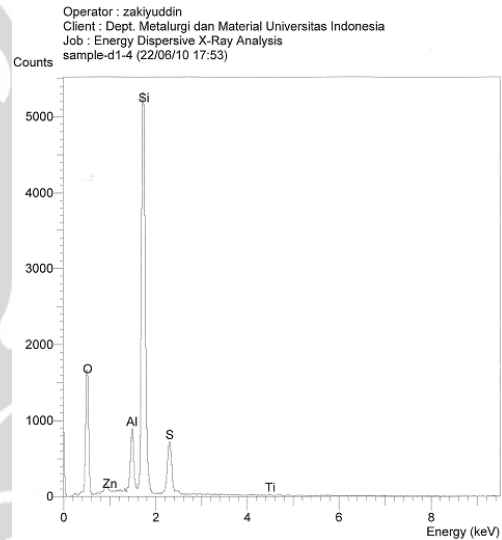
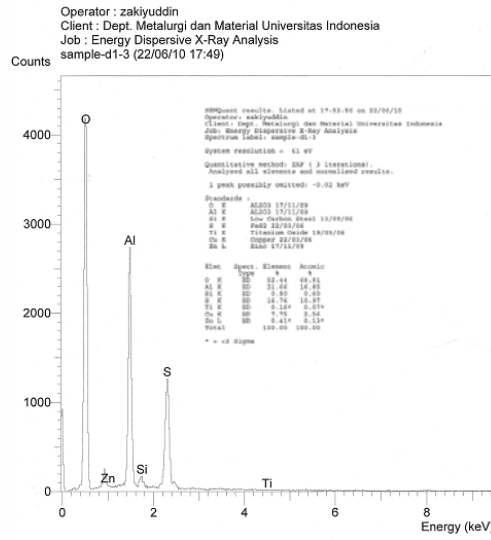
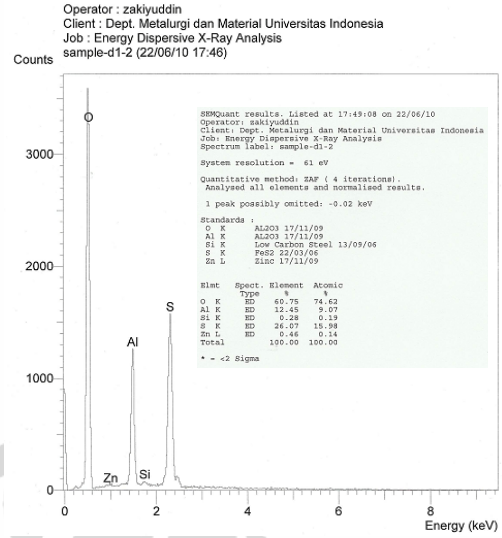
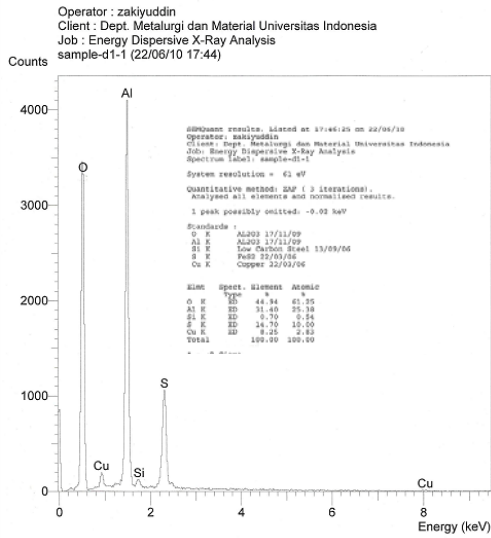
Lampiran 4: Hasil Uji Celup

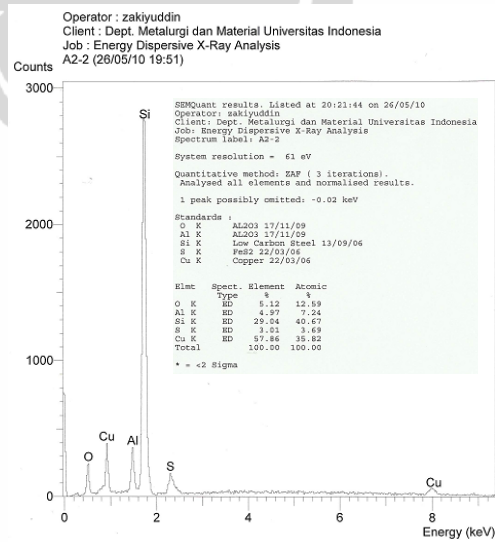
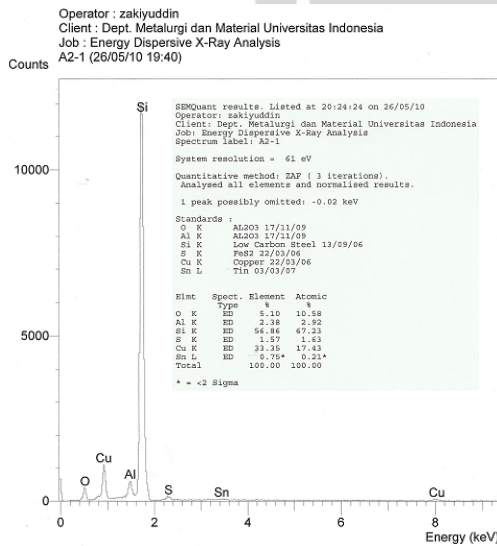
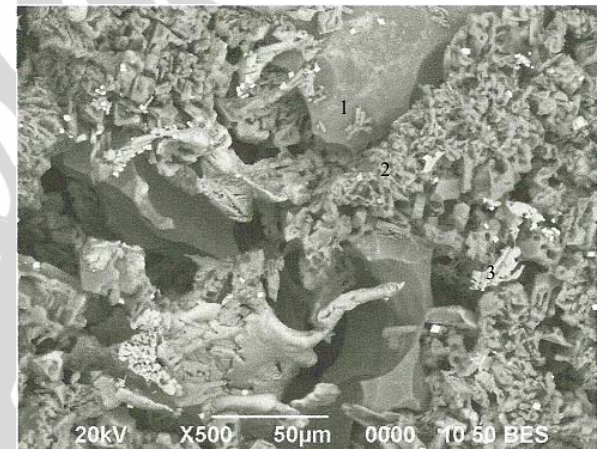
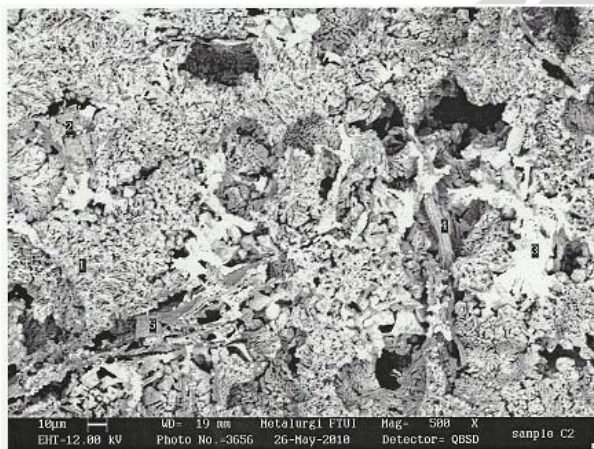
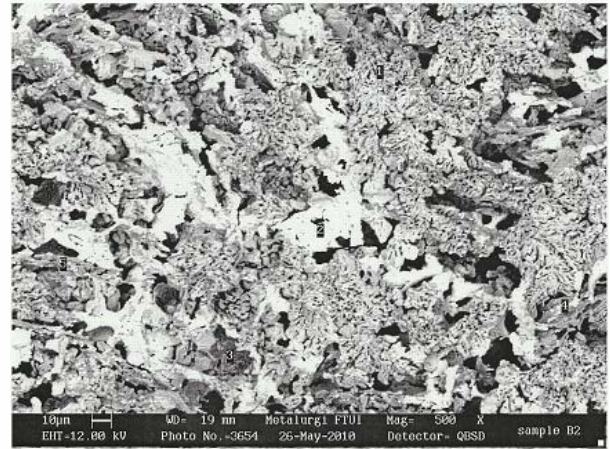
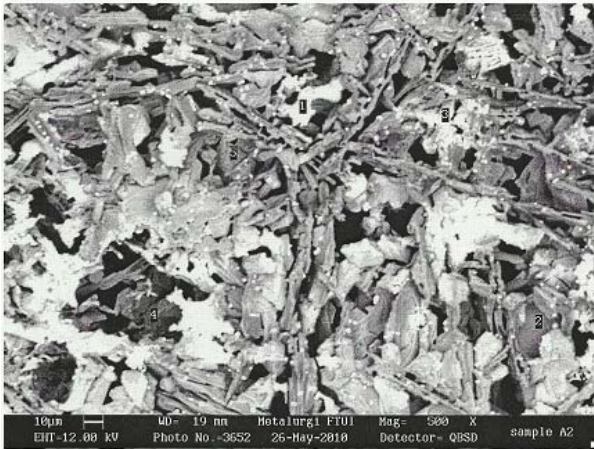
Sampel	No. Sampel	Diameter (mm)	Tebal (mm)	Diameter Lubang (mm)	Luas Permukaan (mm ²)	Berat (gr) Sebelum Pengujian (average)	Berat (gr) Setelah Pengujian (average)	Volume H ₂ SO ₄ (ml)(0.3)	Selisih Berat Sebelum dan Sesudah Pengujian	Persentase Pengurangan Berat (%)	Std	% std
Sampel A	A1	19.95	3.55	1.5	860.4346	2.8885	2.7657	258.1304	0.1228	4.2514	0.000458	0.0108
	A2	20	3	1.5	826.9975	2.9749	2.4878	248.0993	0.4871	16.3727	0.000112	0.0230
	A3	19.95	3.35	1.5	846.9640	2.7670	1.9116	254.0892	0.8554	30.9131	0.000231	0.0270
Sampel B	B1	20	3	1.5	826.9975	2.4710	2.4010	248.0993	0.0700	2.8328	2.56E-16	0.0000
	B2	20.3	3.3	1.5	869.3404	2.6977	2.3324	260.8021	0.3653	13.5399	0.007621	2.0864
	B3	20	3.15	1.5	837.1240	2.6179	1.9334	251.1372	0.6845	26.1482	0.000451	0.0659
Sampel C	C1	19.85	2.95	1.5	812.8479	2.4089	2.3240	243.8544	0.0849	3.5230	0.000189	0.2223
	C2	19.85	3.25	1.5	832.9596	2.6343	2.2411	249.8879	0.3932	14.9274	0.000231	0.0587
	C3	19.85	2.85	1.5	806.1440	2.3612	1.6596	241.8432	0.7016	29.7151	0.000353	0.0503
Sampel D	D1	20	2.35	1.5	783.1160	1.8847	1.8154	234.9348	0.0693	3.6752	0.000315	0.4554
	D2	19.9	2.4	1.5	779.4736	1.9171	1.6132	233.8421	0.3039	15.8518	9.50E-05	0.0313
	D3	20	1.95	1.5	756.1120	1.5850	0.8046	226.8336	0.7804	49.2387	5.77E-05	0.0074

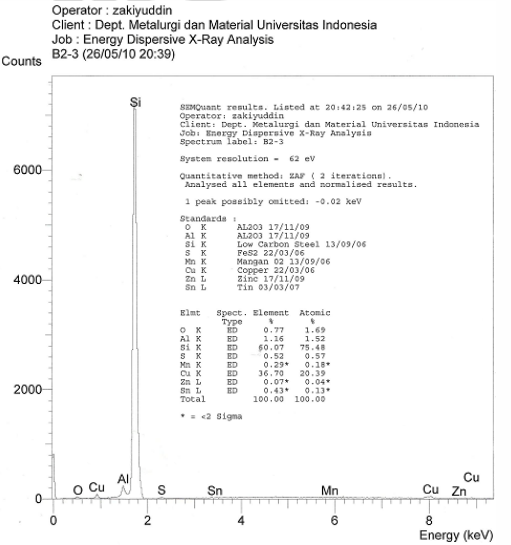
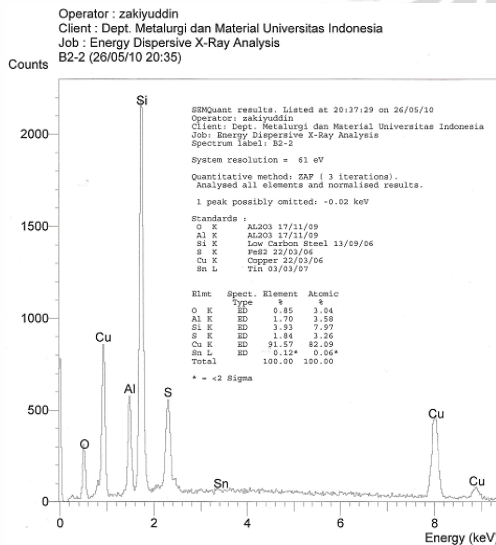
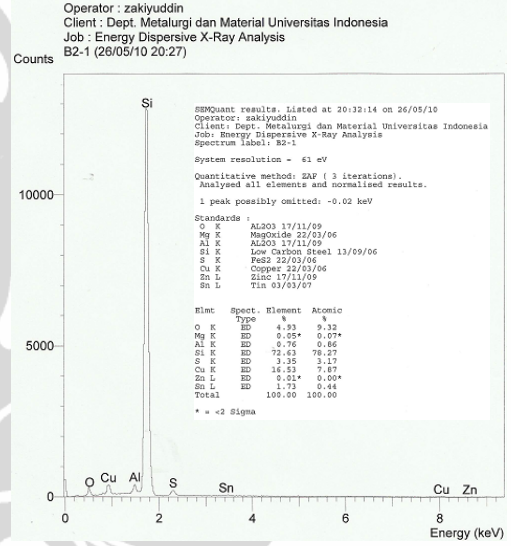
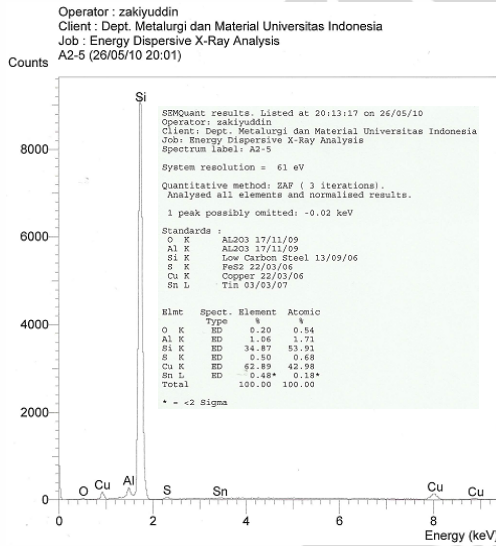
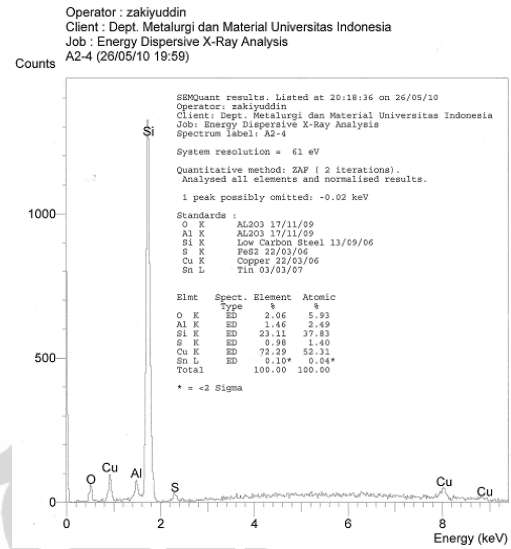
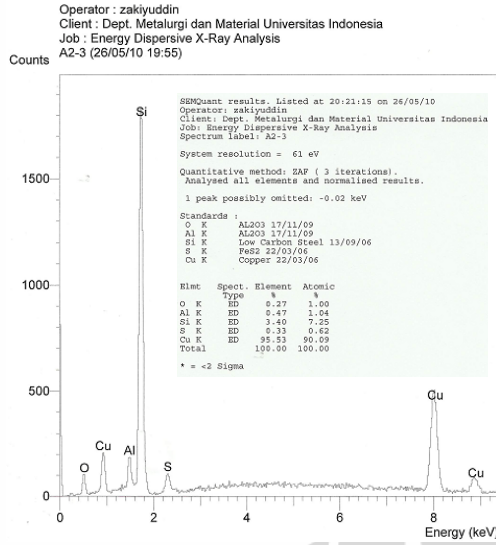
Lampiran 5: Hasil SEM dan EDS Sampel Uji Celup

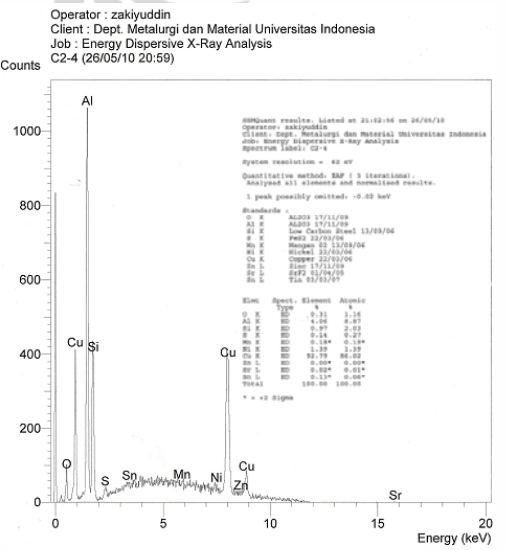
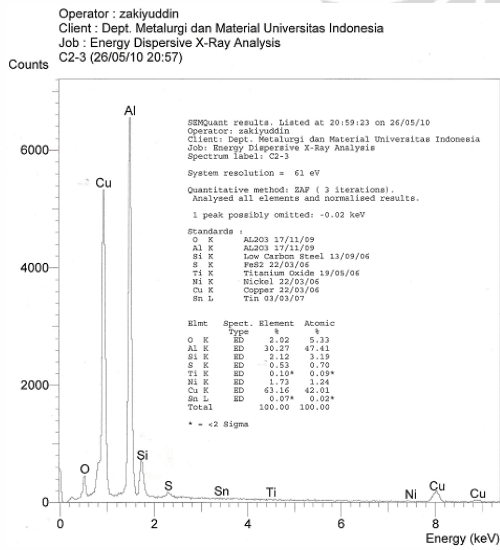
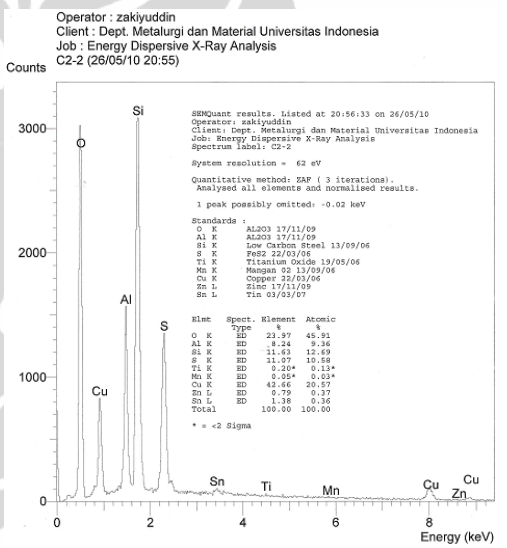
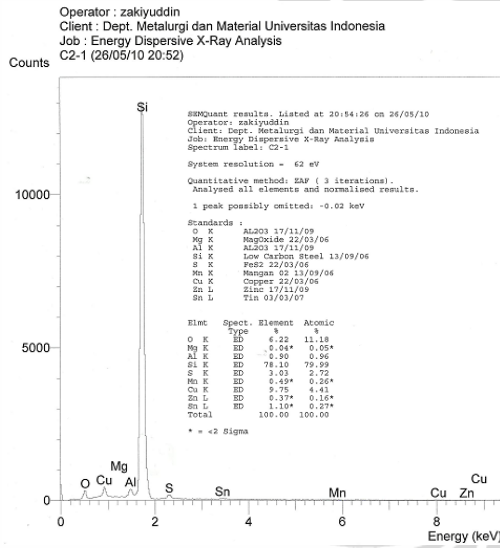
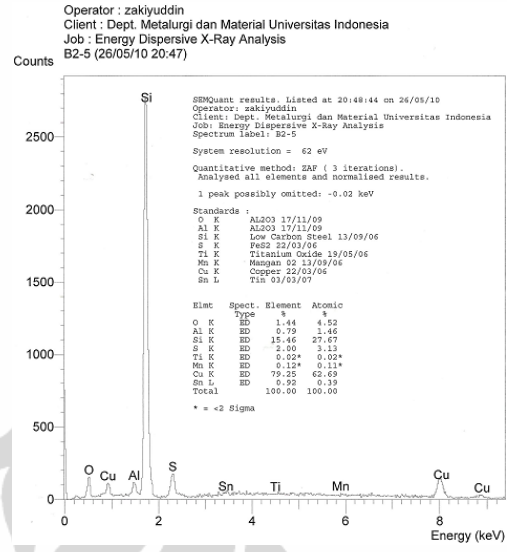
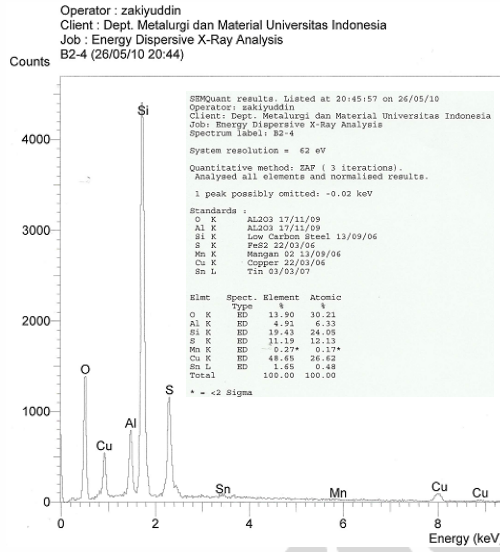




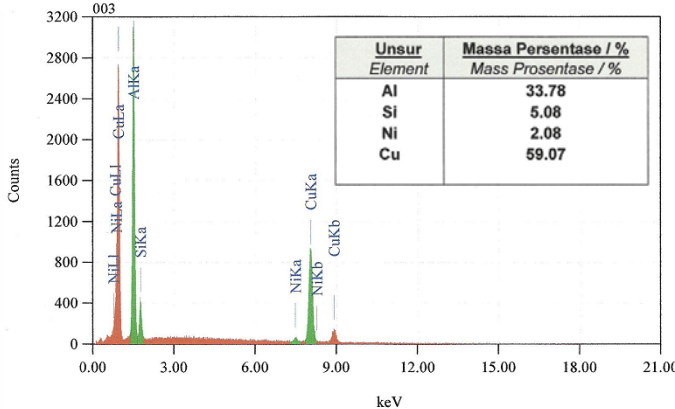
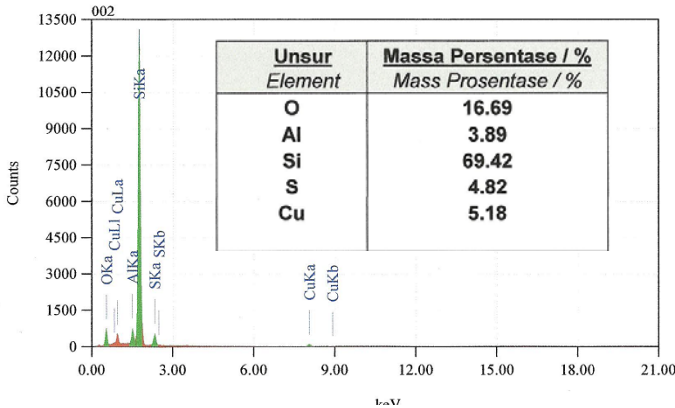
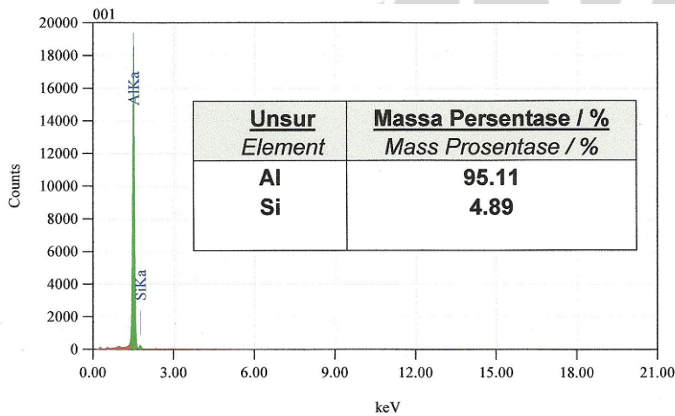
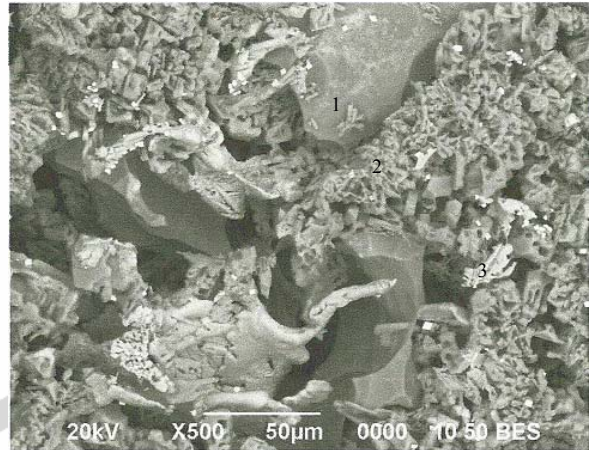
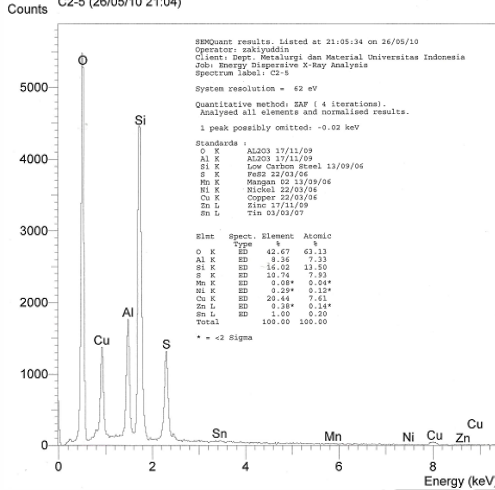


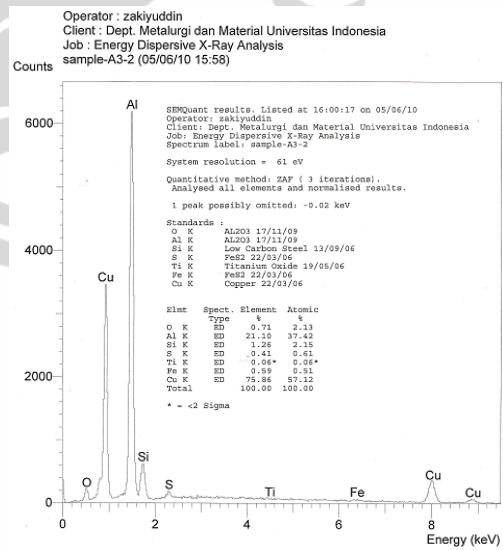
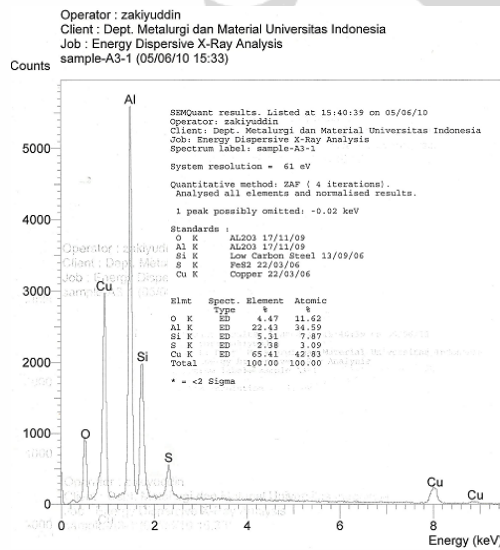
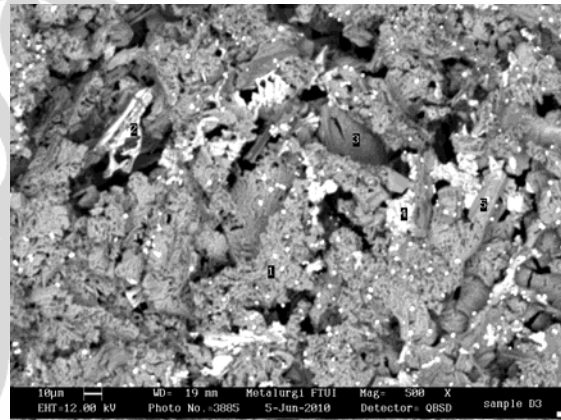
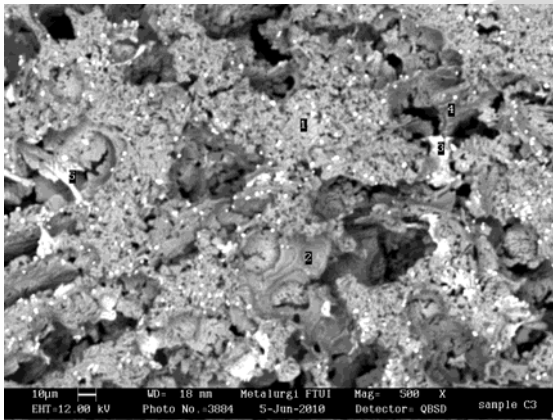
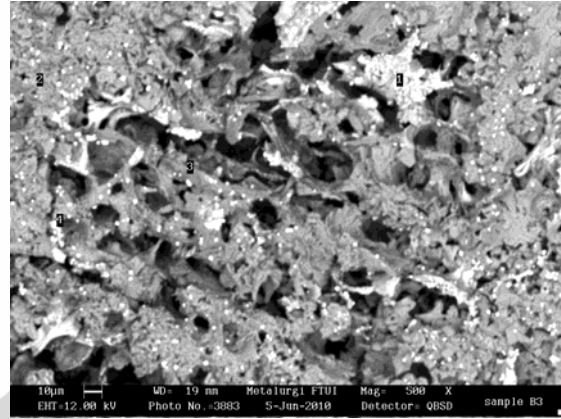
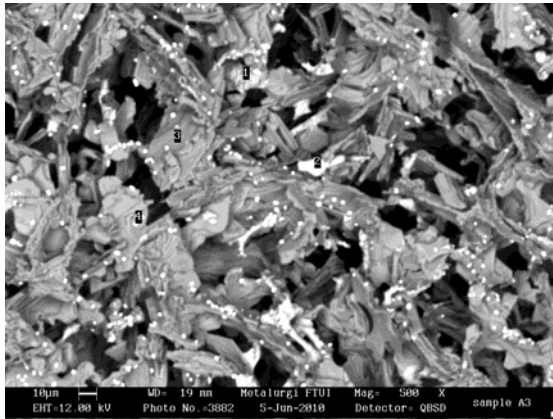


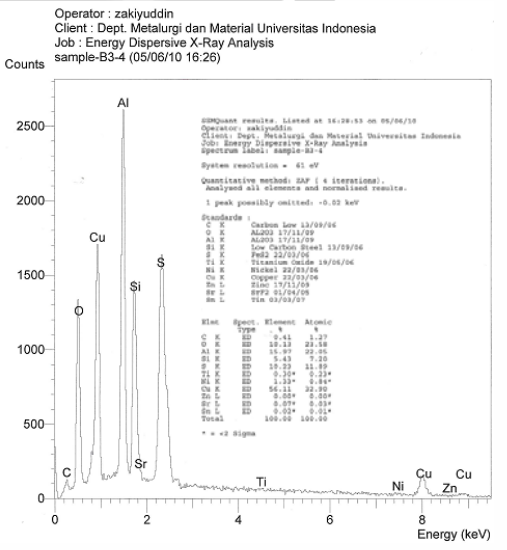
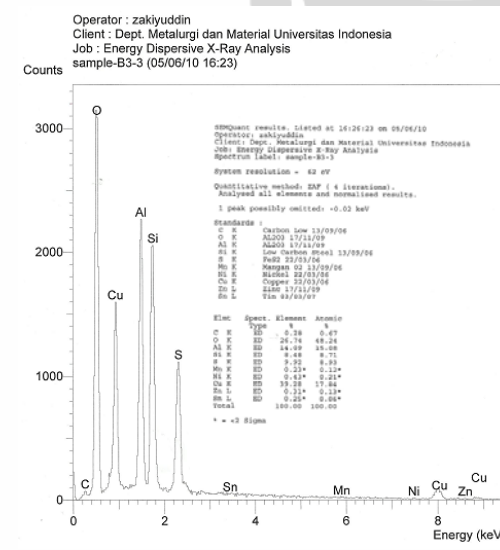
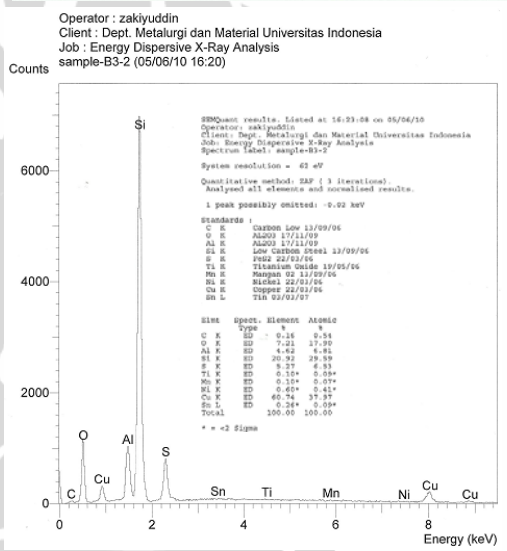
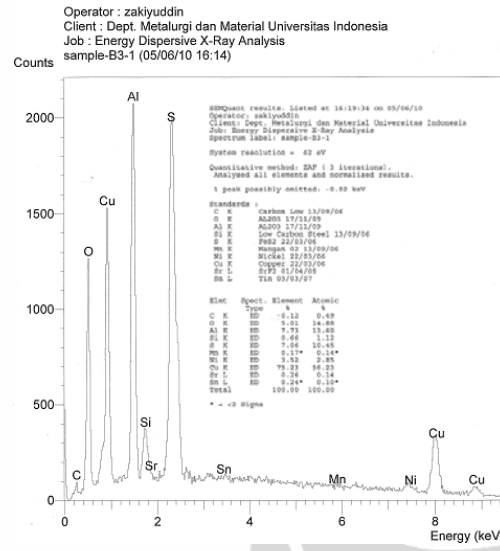
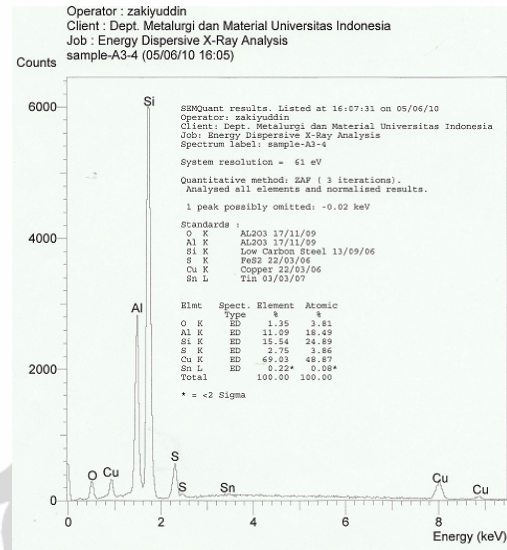
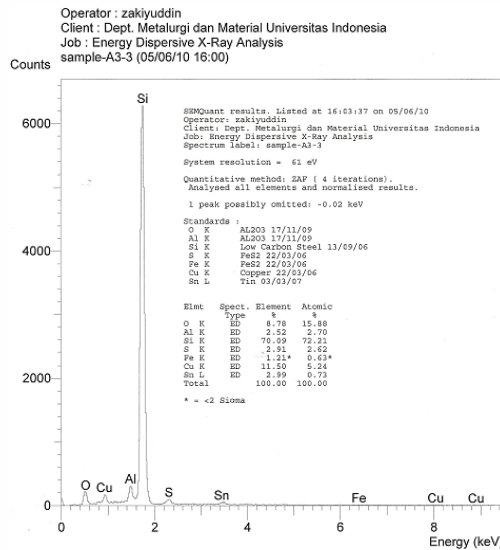


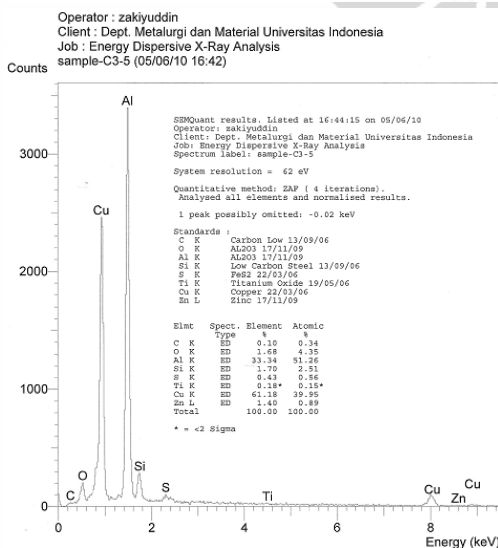
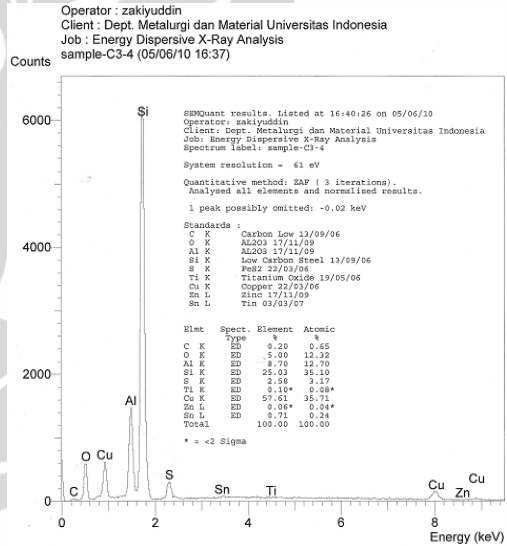
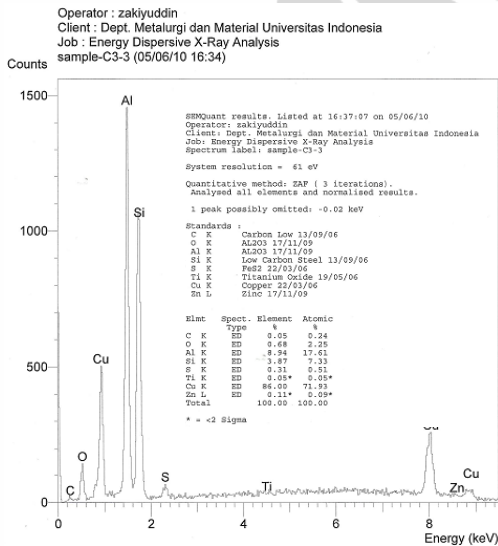
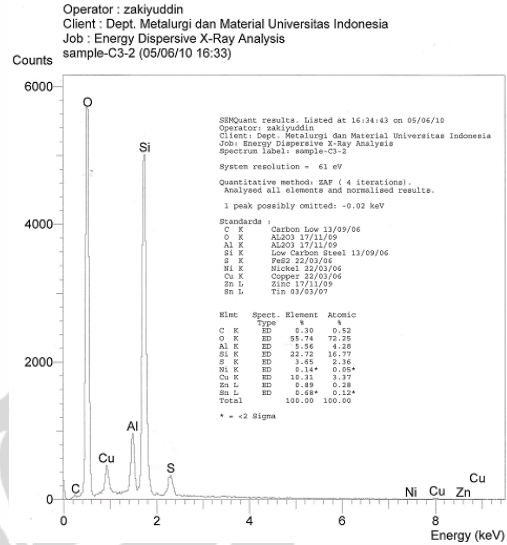
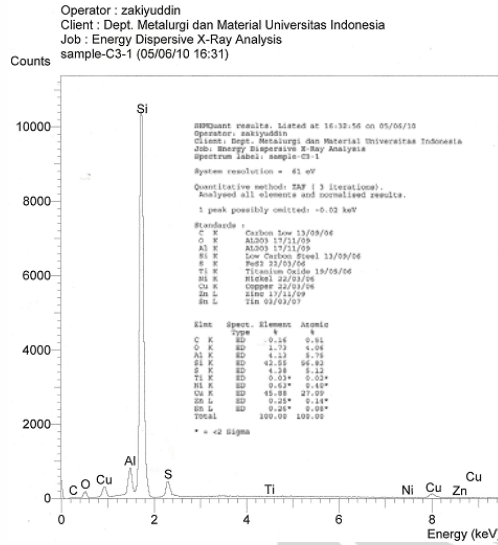


Operator : zakiyuddin
 Client : Dept. Metalurgi dan Material Universitas Indonesia
 Job : Energy Dispersive X-Ray Analysis
 C2-5 (26/05/10 21:04)

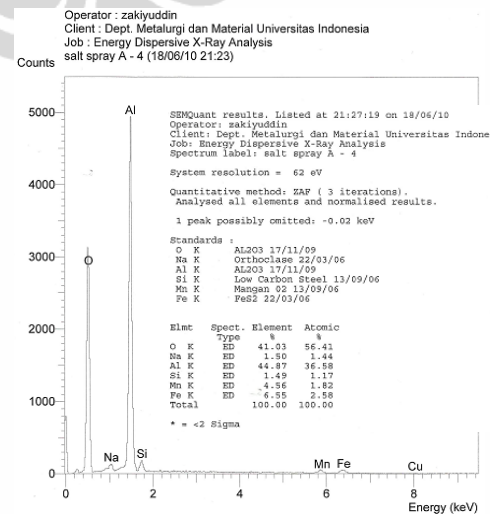
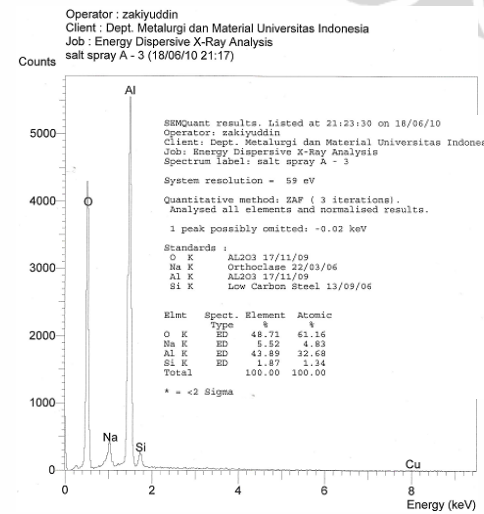
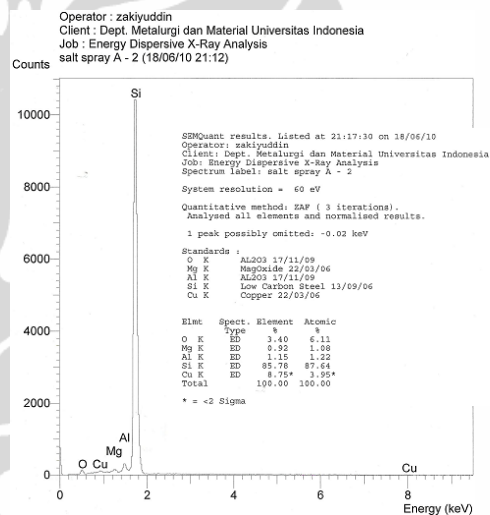
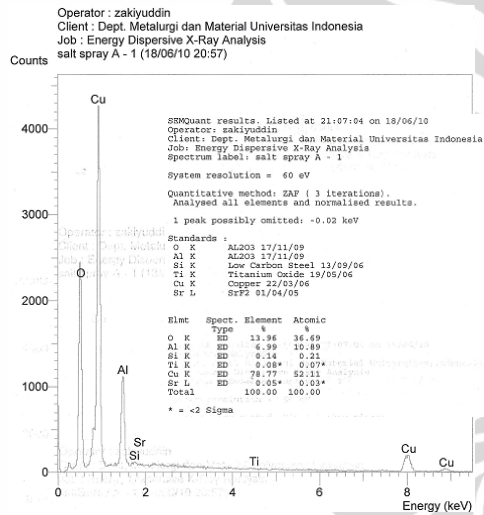


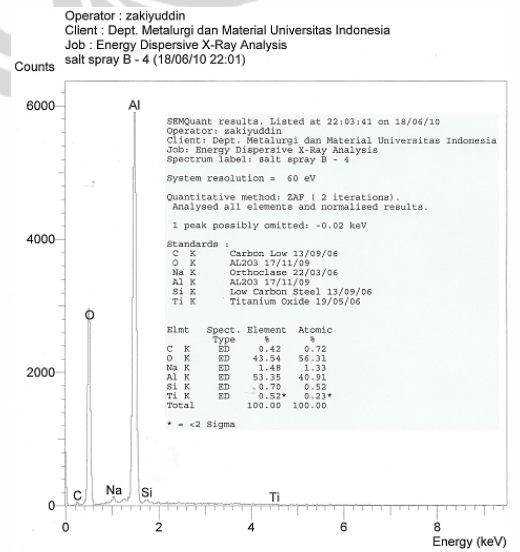
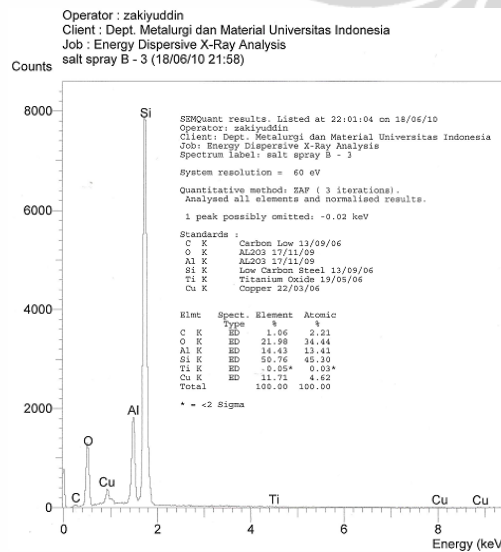
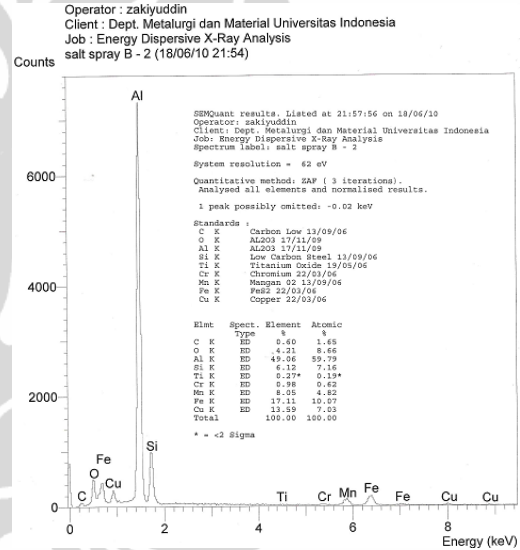
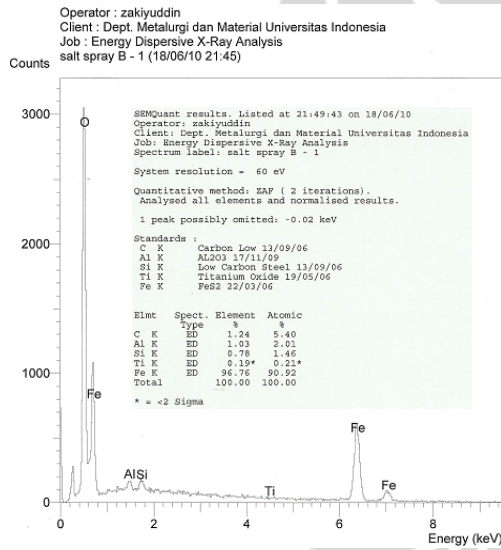


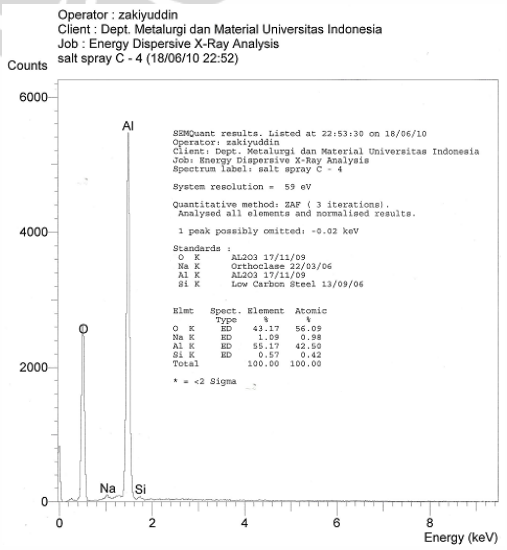
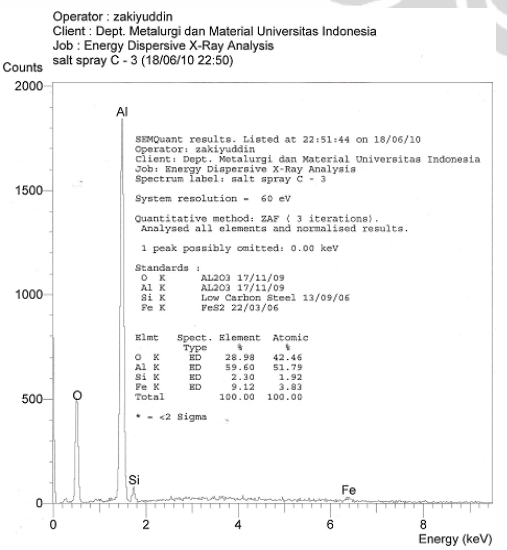
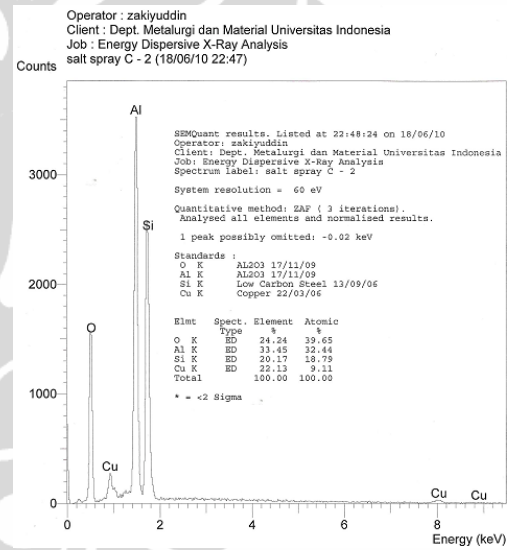
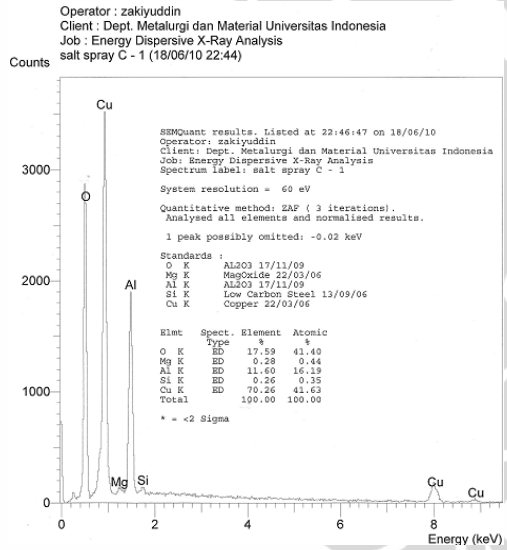
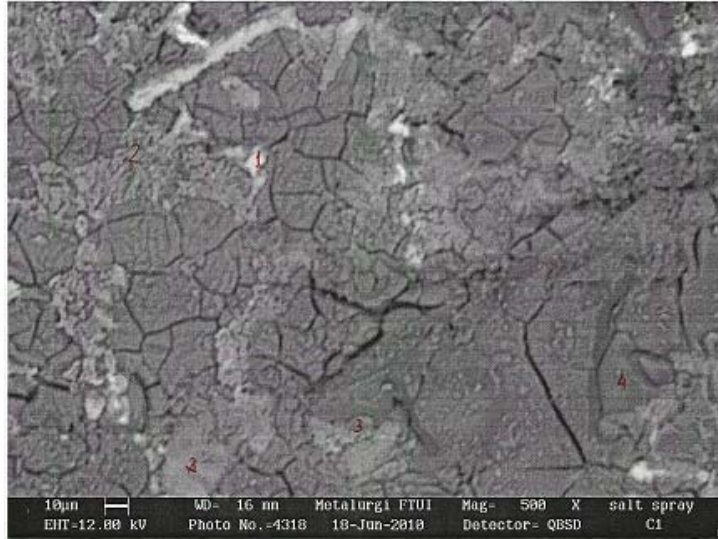




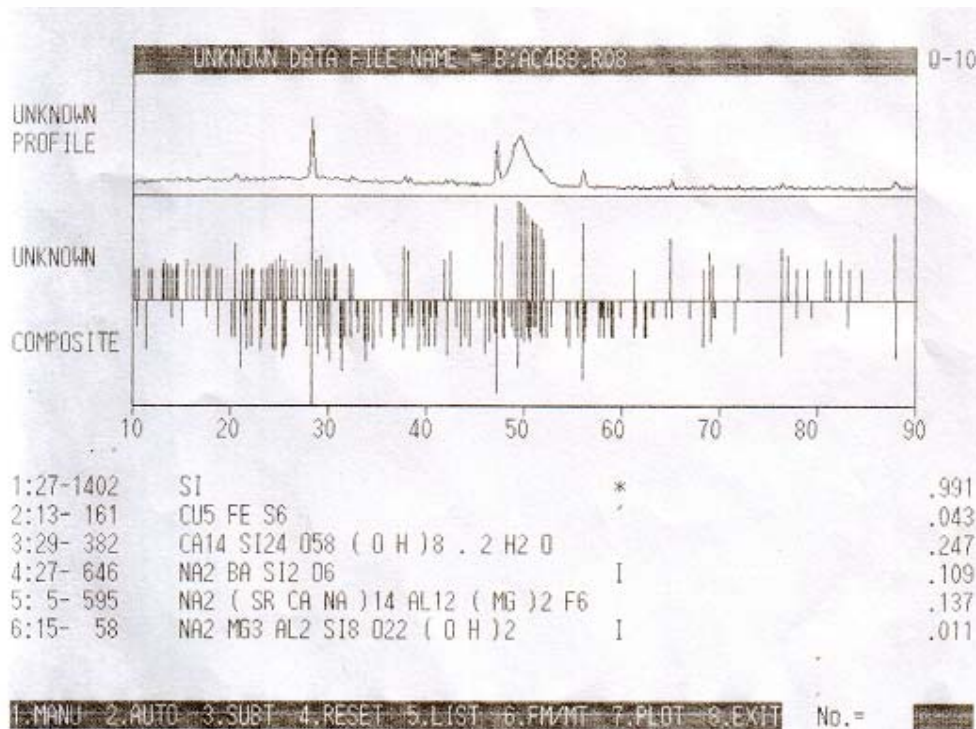
Lampiran 6: Hasil SEM dan EDS Sampel Uji Sembur Garam







Lampiran 7: Hasil XRD



```

#####
#--- PEAK DATA OUTPUT(DP-71 V[,35) ----- 2010/12/22 -- 10:05:44.00 -
#####
* Peak data file name      : B:AC4BB.P08
* Sample name              :
* Comment                  :
  - X-ray                  :
      Tube                 :
      K.V.                 :
      m.A.                 :
  - Slit                   :
      SS [deg]             :
      DS [deg]             :
      RS [mm]              :
  - PHA                    :
      Low level [V]        : 0.40
      High level [V]       : 1.40
      Detector            :
      H.V. [V]            : 640
* Scan mode                 : NORM
* Drive mode                : THETA-2THETA
* Drive speed [deg/min]    : 8.0
* Sampling pitch [deg]     : 0.020
* Theta initial angle [deg] : 90.000
* 2Theta initial angle [deg] : 90.000
* SC/TM mode & preset      : RM 1 X10E 3 [msec]
* Full scale [kcps]       : 2.500
* Smoothing points         : 11
* Back ground supp.       : YES

```

SCAN RANGE No. 1 RANGE : 10.00 - 90.00

No.	ANGLE	d	P.V.	H.W.	P.I.L.	R.I.	TYPE
1	88.140	1.11017	89	0.262L	21.22#	7	B
2	87.880	1.11003	166	0.297H	86.70#	13	A
3	84.600	1.14449	56	0.512	31.46	4	F
4	83.260	1.15947	50	0.490	44.50	4	F
5	82.320	1.17031	81	0.417	44.70	6	F
6	81.260	1.18288	53	0.600L	23.08#	4	F
7	81.060	1.18823	59	----	14.02#	5	B
8	80.820	1.18820	53	0.790H	20.54#	4	A
9	79.040	1.21043	52	0.481	50.48	4	F
10	77.960	1.22448	57	0.475	33.62	4	F
11	77.360	1.23552	58	0.247L	12.00#	4	B
12	77.080	1.23624	58	----	22.06#	4	A
13	76.360	1.24610	135	0.420	111.58	10	F
14	71.900	1.31201	68	0.276	35.38	5	F
15	69.280	1.35509	70	0.200L	30.08#	5	C
16	69.020	1.35955	102	0.320H	37.11#	5	F

17	68.340	1.37141		55	0.201	30.24	4	C
18	65.060	1.43239	Al ₂ O ₃	191	0.323	122.54	15	C
19	61.240	1.51226		58	0.228	33.82	4	C
20	56.040	1.63961	Al ₂ O ₃ di	373	0.327	146.68	29	C
21	53.020	1.72566		53	0.253L	22.28#	4	C
22	52.080	1.75457		195	0.720L	87.66#	15	C
23	51.740	1.76530		297	----	111.90#	23	C
24	51.380	1.77682	Cu ₂ O ₂	357	----	139.06#	28	C
25	51.020	1.78851		385	----	101.94#	30	C
26	50.800	1.79574		461	----	101.04#	36	C
27	50.420	1.80838		570	----	194.26#	44	C
28	50.040	1.82122		768	----	251.26#	59	C
29	49.800	1.82943		907	----	268.82#	70	C
30	49.540	1.83842	SiO ₂	986	1.840H	1136.00#	76	C
31	47.840	1.89970	SiO ₂ Custom	168	----	51.32#	13	C
32	47.200	1.92396	SiO ₂	882	0.317	315.16	68	C
33	42.580	2.12140	Al ₂ O ₃	111	0.359	43.32	9	C
34	42.000	2.14934		82	0.222	39.60	6	C
35	38.300	2.34804	Cu ₂ O	120	0.208	29.66	9	C
36	37.800	2.37794	Cu ₂ O	139	0.319	75.88	11	C
37	32.560	2.74766	Cu ₂ O	56	0.760L	27.38#	4	C
38	32.300	2.76918		69	0.145H	25.38#	5	C
39	30.880	2.89320	SiO ₂	70	0.360L	36.28#	5	C
40	30.660	2.91346	SiO ₂	65	0.420H	21.50#	5	C
41	30.060	2.97023		56	0.240L	15.38#	4	C
42	29.760	2.99949		52	----	13.18#	4	C
43	29.340	3.04146		87	0.257H	33.58#	7	C
44	28.900	3.08676		73	0.208L	15.36#	6	C
45	28.340	3.14647	→ Si	1294	0.298	462.78	100	C
46	27.580	3.23142		56	0.813H	24.58#	4	C
47	26.800	3.32368		55	0.430L	18.16#	4	C
48	26.460	3.36561		66	0.192H	15.00#	5	C
49	25.920	3.43449		51	0.488	21.16	4	C
50	25.660	3.46869	Al ₂ O ₃	79	0.168	13.94	6	C
51	25.300	3.51723		56	----	11.64#	4	C
52	25.140	3.53925		87	0.257H	23.96#	7	C
53	24.740	3.59556		72	0.183	13.26	6	C
54	24.460	3.63608		63	0.270	14.48	5	C
55	24.080	3.69260		61	0.352H	20.44#	5	C
56	23.780	3.73850		50	0.208H	13.06#	4	C
57	23.260	3.82088		56	0.284	23.82	4	C
58	22.440	3.95862		52	0.220L	9.50#	4	C
59	22.240	3.99376		54	0.160H	10.80#	4	C
60	21.700	4.09191		62	0.353	22.34	5	C
61	21.320	4.16398	SiO ₂	54	0.312H	13.82#	4	C
62	20.600	4.30786	Cu ₂ O	152	0.399	79.12	12	C
63	19.180	4.62347		50	0.390	21.22	4	C
64	18.700	4.74105		53	0.293	16.56	4	C
65	17.940	4.94015		64	0.240L	18.50#	5	C
66	17.680	5.01221		58	0.960H	28.00#	4	C
67	16.920	5.23560		65	0.341	25.90	5	C
68	16.160	5.48007		52	0.250	17.02	4	C
69	15.640	5.66109		72	0.339	42.74	6	C
70	14.680	6.02906		71	0.185L	15.46#	5	C
71	14.500	6.10350		67	0.156H	9.90#	5	C
72	14.180	6.24051		53	0.182L	9.46#	4	C
73	13.860	6.38386		66	0.300L	19.02#	5	C
74	13.560	6.52441		65	----	13.46#	5	C
75	13.280	6.66134		79	0.247L	18.20#	6	C
76	13.080	6.76274		65	1.700H	47.18#	5	C
77	12.060	7.33233		52	----	12.02#	4	C
78	11.840	7.46807		51	0.500H	30.52#	4	C
79	10.760	8.21511		56	0.493L	22.60#	4	C
80	10.440	8.46618		54	0.291H	12.86#	4	C