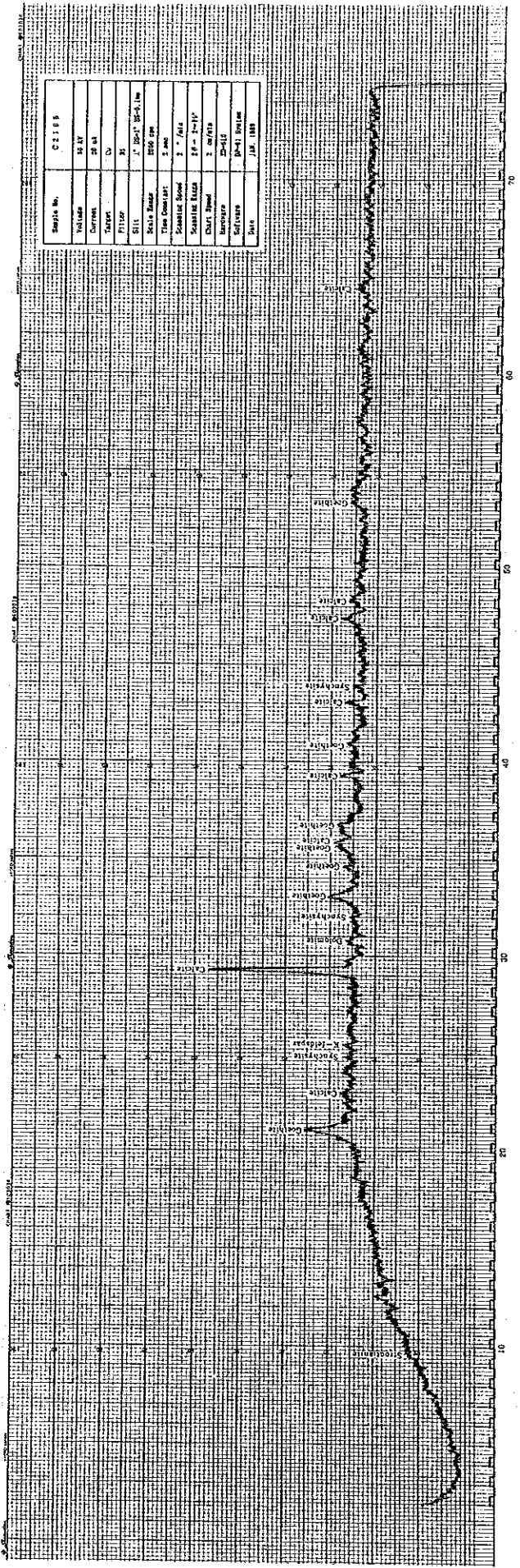
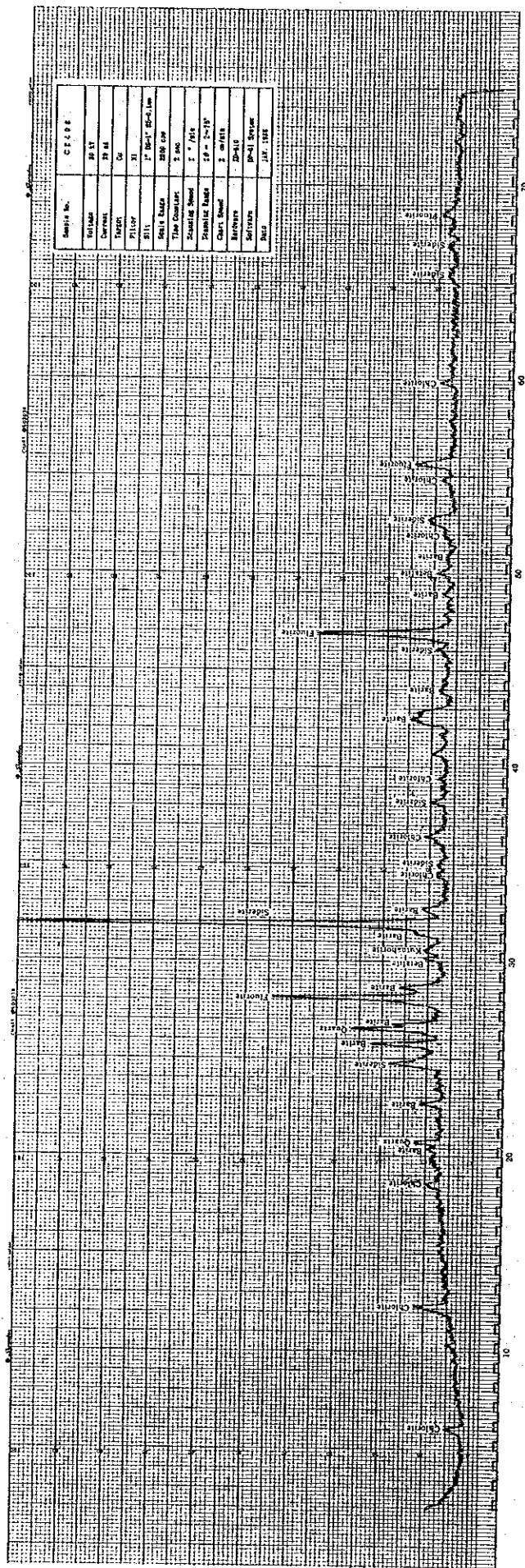
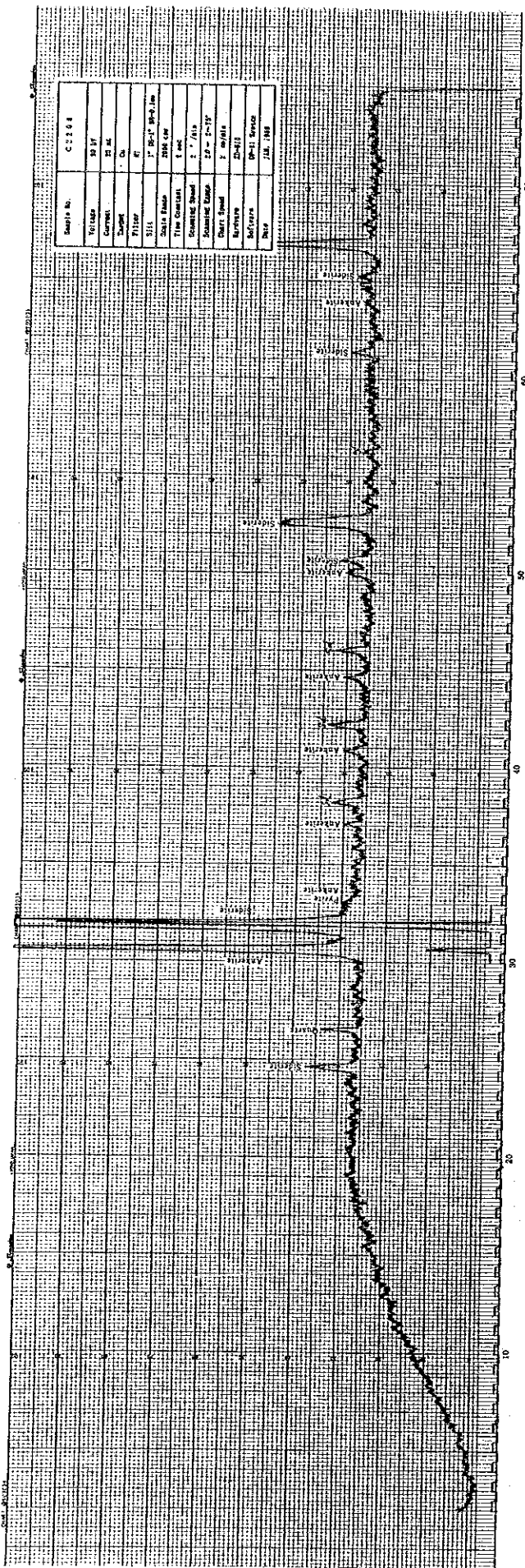


Study No.	C1194
Technique	12-lead
Conduction	ECG
Temp	36
Filter	30
Gain	1 mV/cm
Paper Speed	25 mm/s
Time Constant	0.2 sec
Recording Date	1-1-68
Chart Speed	1 cm/min
Reference	Dr. H. J.
Signature	[Signature]
Date	Jan 1, 1968



Study No.	C1195
Technique	12-lead
Conduction	ECG
Temp	36
Filter	30
Gain	1 mV/cm
Paper Speed	25 mm/s
Time Constant	0.2 sec
Recording Date	1-1-68
Chart Speed	1 cm/min
Reference	Dr. H. J.
Signature	[Signature]
Date	Jan 1, 1968



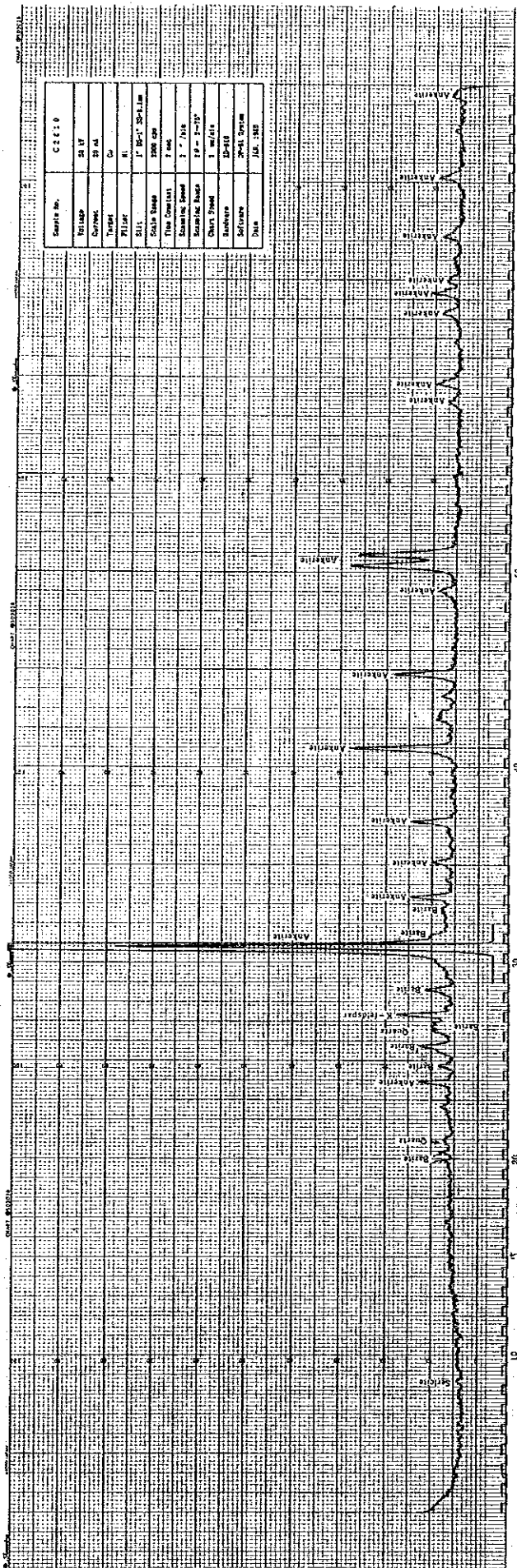


Chart No.	C2110
Volume	24 LF
Current	27 mA
Temp	Co
Filter	Hi
Scale	1" 25-1" 50-1.0m
Time Constant	2 sec
ECG Lead	II
ECG Paper	3" x 6" 100 cps
ECG Speed	2" 100
ECG Paper	1.8 - 2.12
Chart Speed	1 mm/sec
Reference	IP-101
Software	IP-101 System
Date	JAN 1983

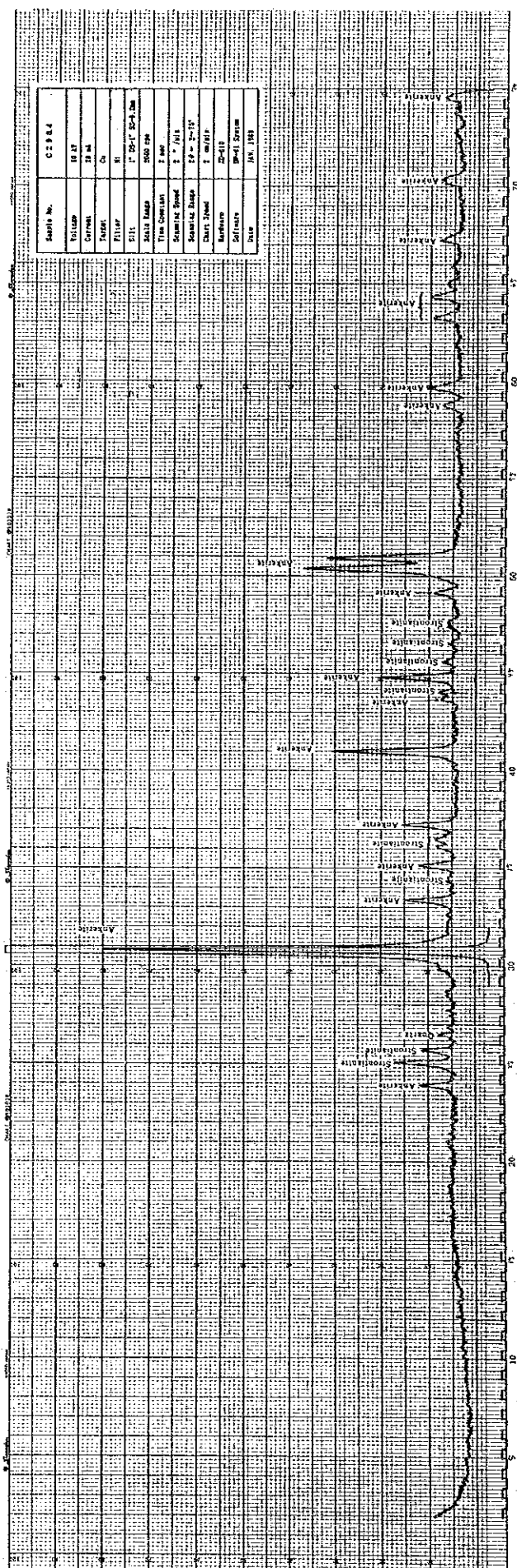
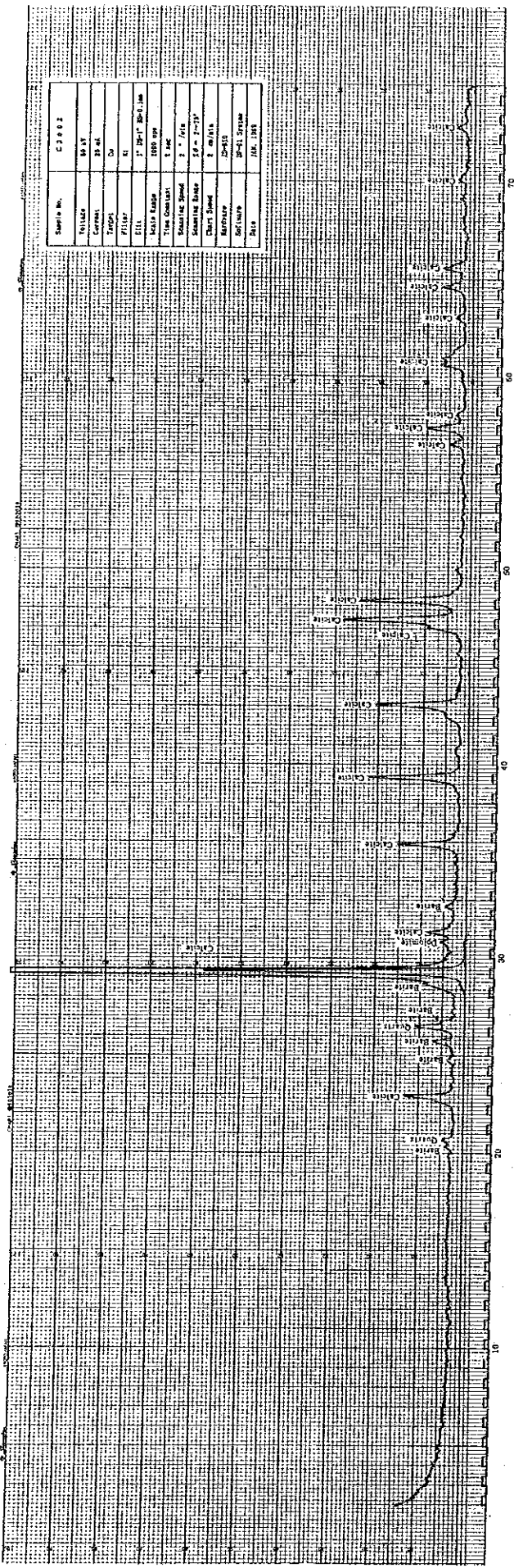
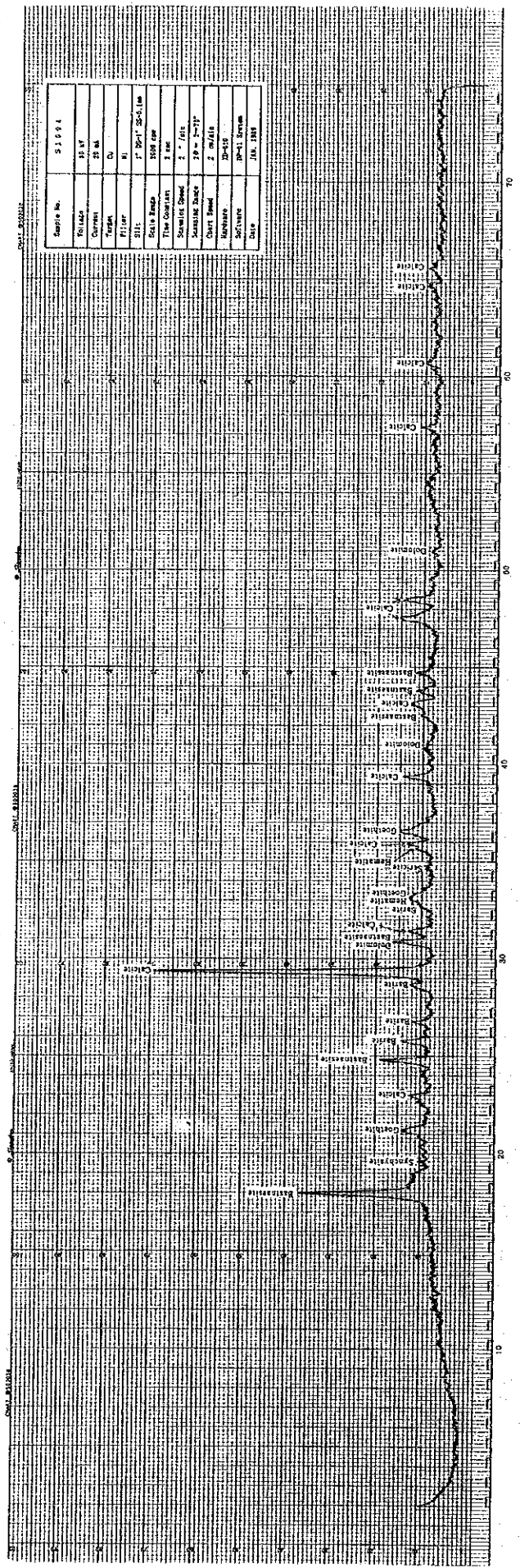


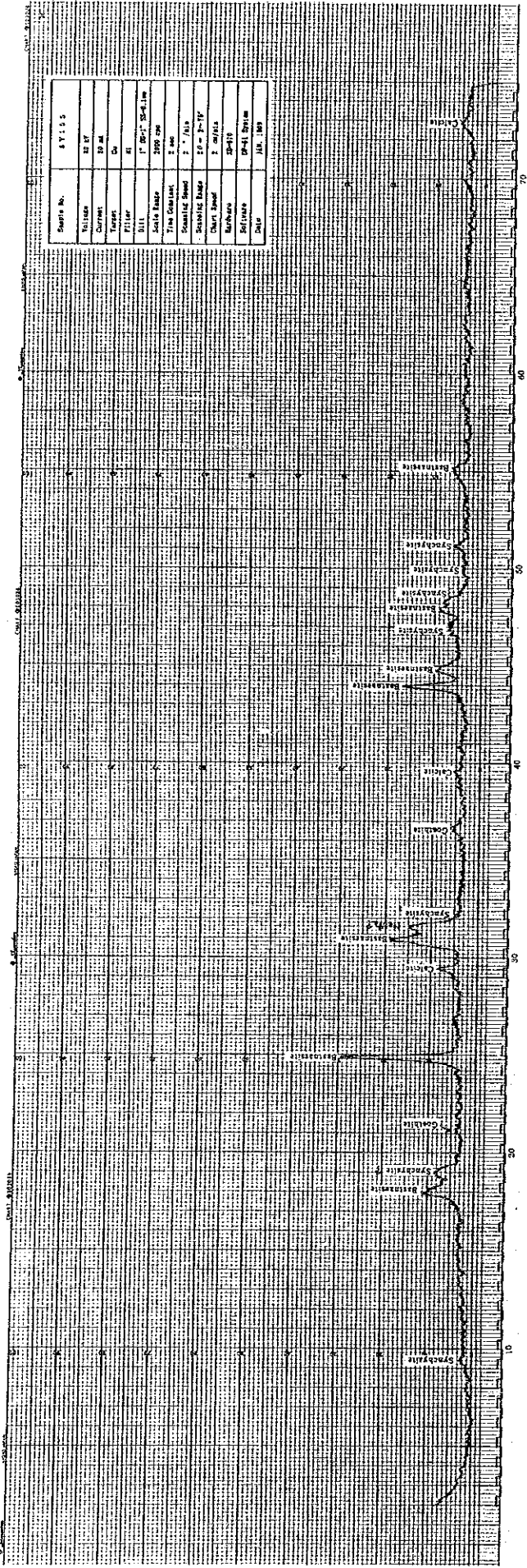
Chart No.	C2114
Volume	24 LF
Current	27 mA
Temp	Co
Filter	Hi
Scale	1" 25-1" 50-1.0m
Time Constant	2 sec
ECG Lead	II
ECG Paper	3" x 6" 100 cps
ECG Speed	2" 100
ECG Paper	1.8 - 2.12
Chart Speed	1 mm/sec
Reference	IP-101
Software	IP-101 System
Date	JAN 1983

Sample No.	C 3002
Volume	10 ml
Current	10 mA
Temp	25°C
Filter	NI
Cell	1" DP-1, SS-1, 1M
Acid Range	1000 ppm
Time Constant	1 sec
Scan Rate	2" / 10"
Scan Rate	2" / 10"
Chart Speed	10" / 10"
Chart Speed	2" / 10"
Reference	DP-410
Software	DP-41, System
Date	JAN. 1968

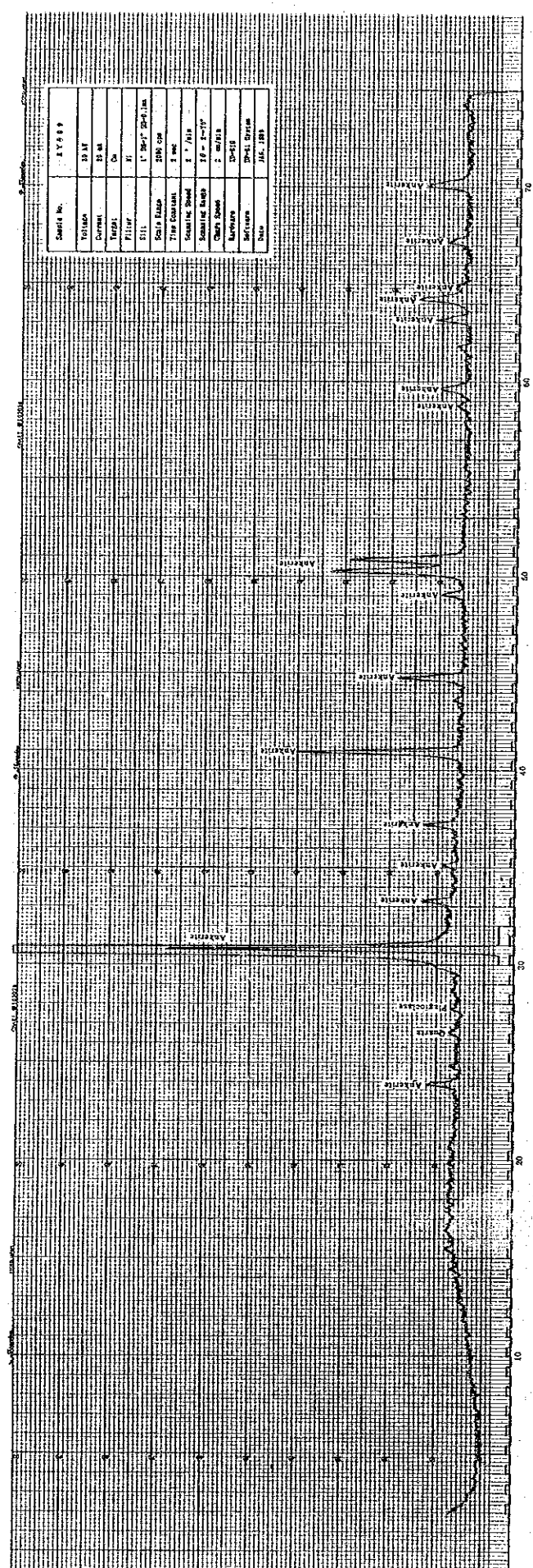


Sample No.	S 1514
Volume	10 ml
Current	10 mA
Temp	25°C
Filter	NI
Cell	1" DP-1, SS-1, 1M
Acid Range	1000 ppm
Time Constant	1 sec
Scan Rate	2" / 10"
Scan Rate	2" / 10"
Chart Speed	10" / 10"
Chart Speed	2" / 10"
Reference	DP-410
Software	DP-41, System
Date	JAN. 1968

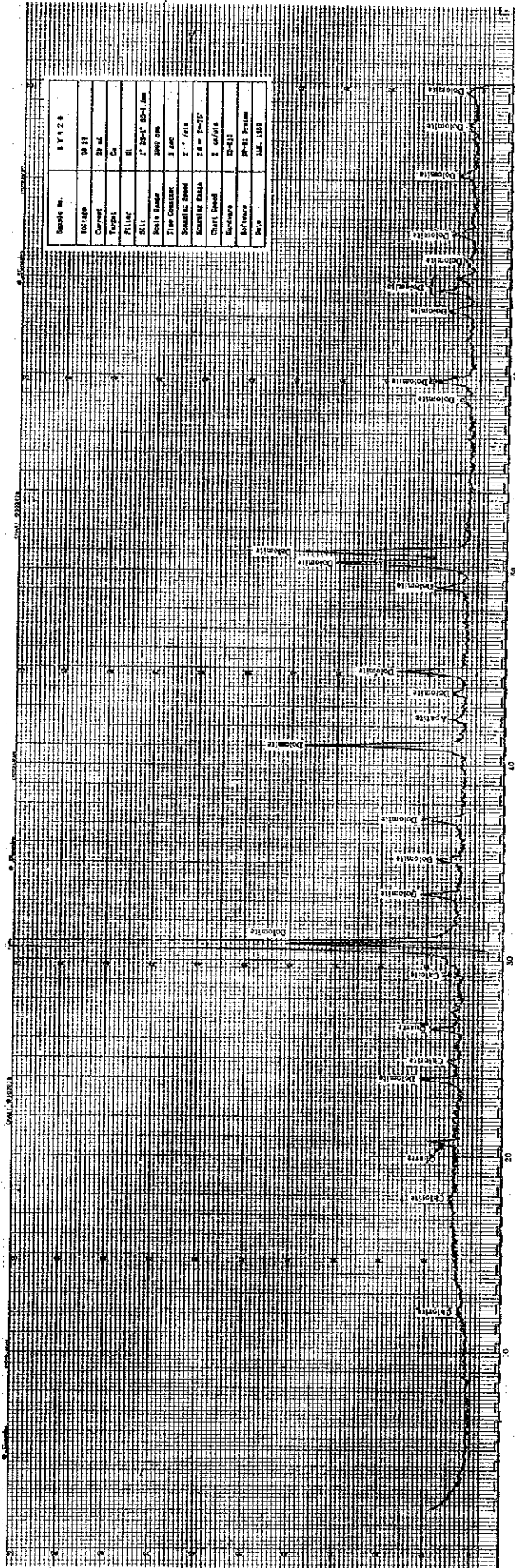




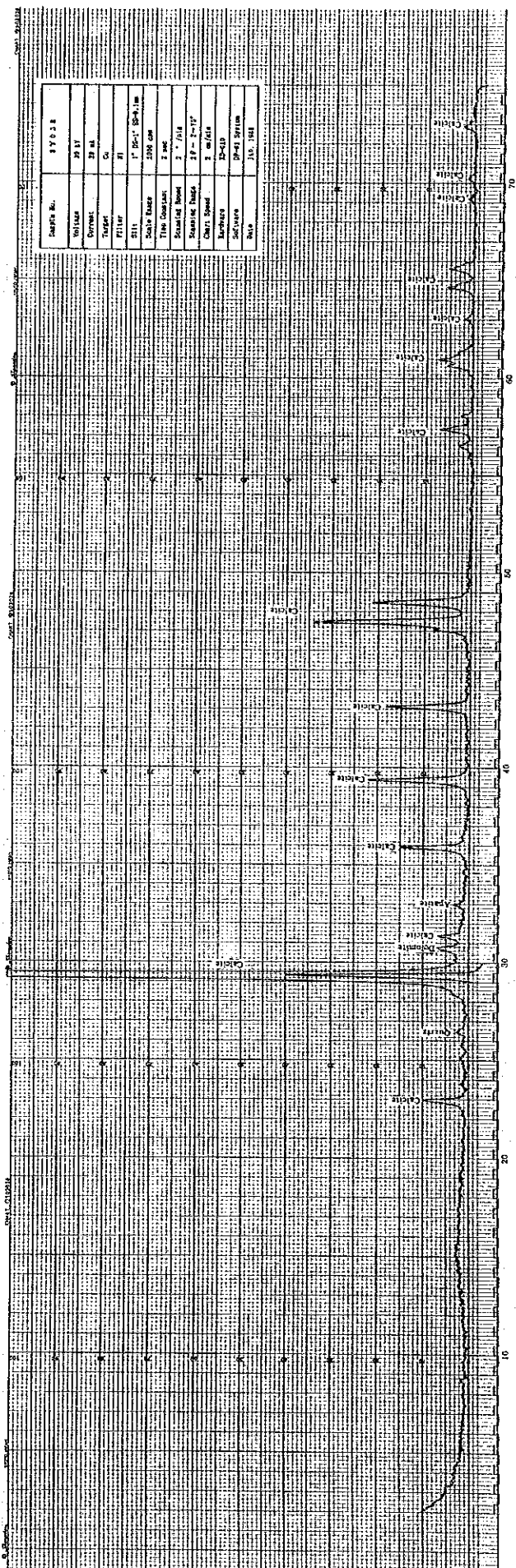
Sheet No.	47155
Volume	12 II
Current	10 mA
Paper	Dr
Filter	40
Gain	1" 100-1" 25-1.5m
Scale Range	2000 cps
Time Constant	3 sec
Standard Speed	2" 1/16
Standard Range	50 - 100
Chart Speed	2" 1/16
Reference	20-115
Software	DR-II System
Date	JUL 1969



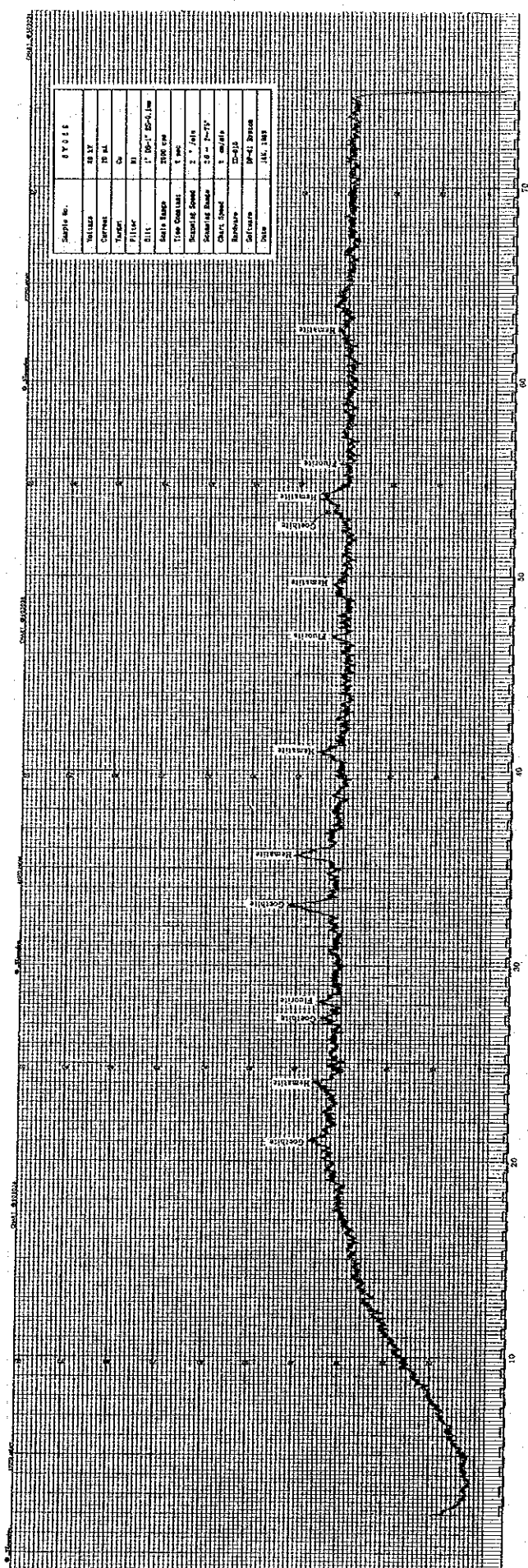
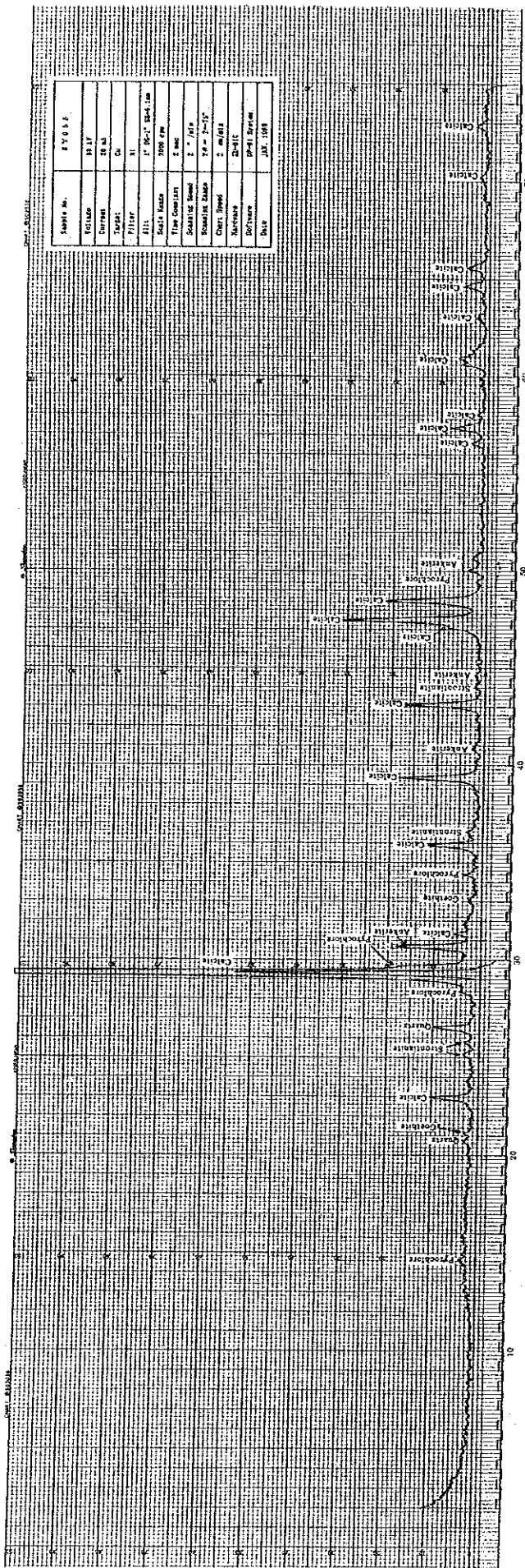
Sheet No.	47187
Volume	12 II
Current	10 mA
Paper	Dr
Filter	40
Gain	1" 100-1" 25-1.5m
Scale Range	2000 cps
Time Constant	3 sec
Standard Speed	2" 1/16
Standard Range	50 - 100
Chart Speed	2" 1/16
Reference	20-115
Software	DR-II System
Date	JUL 1969

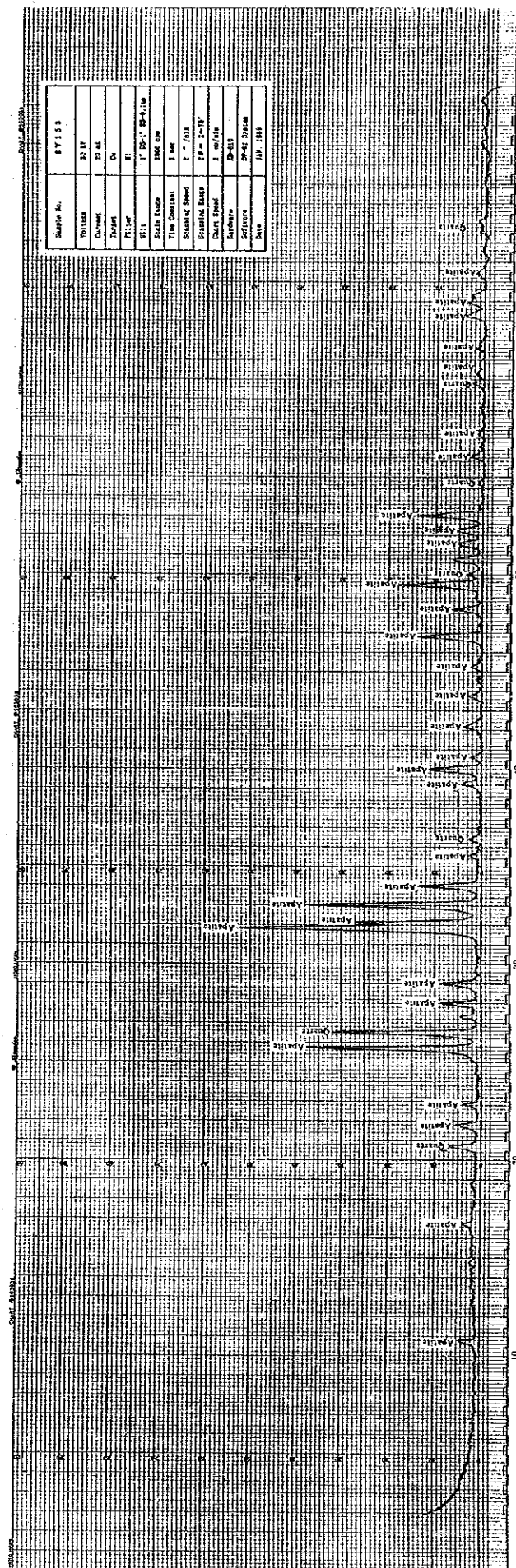
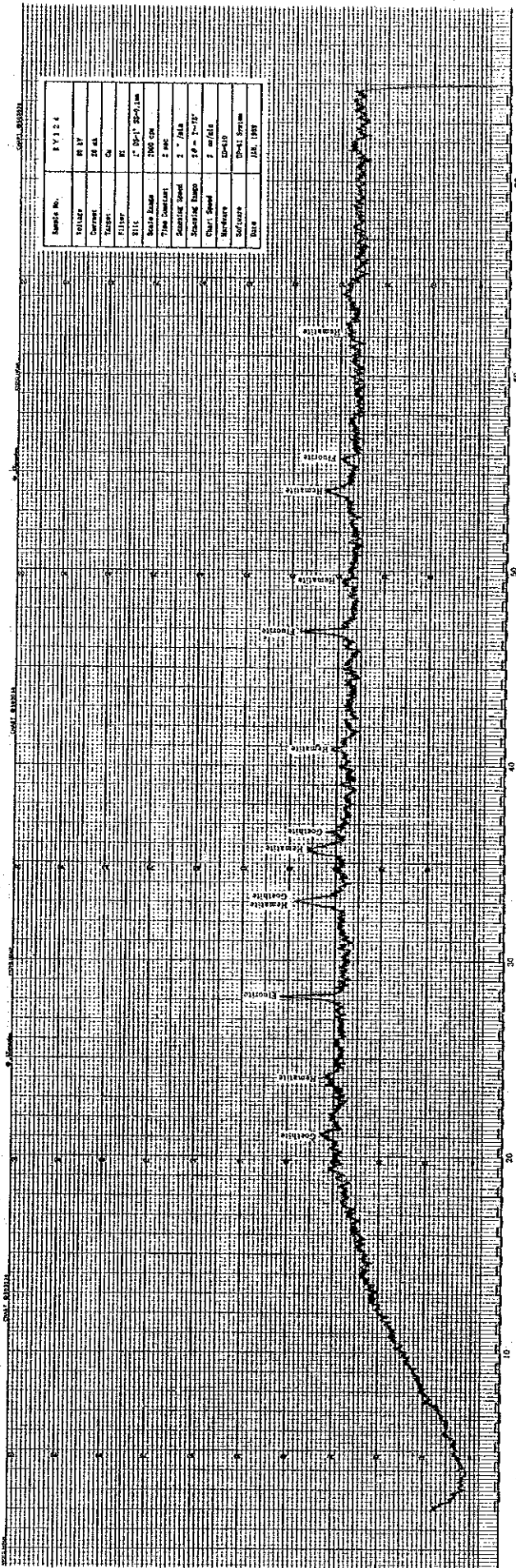


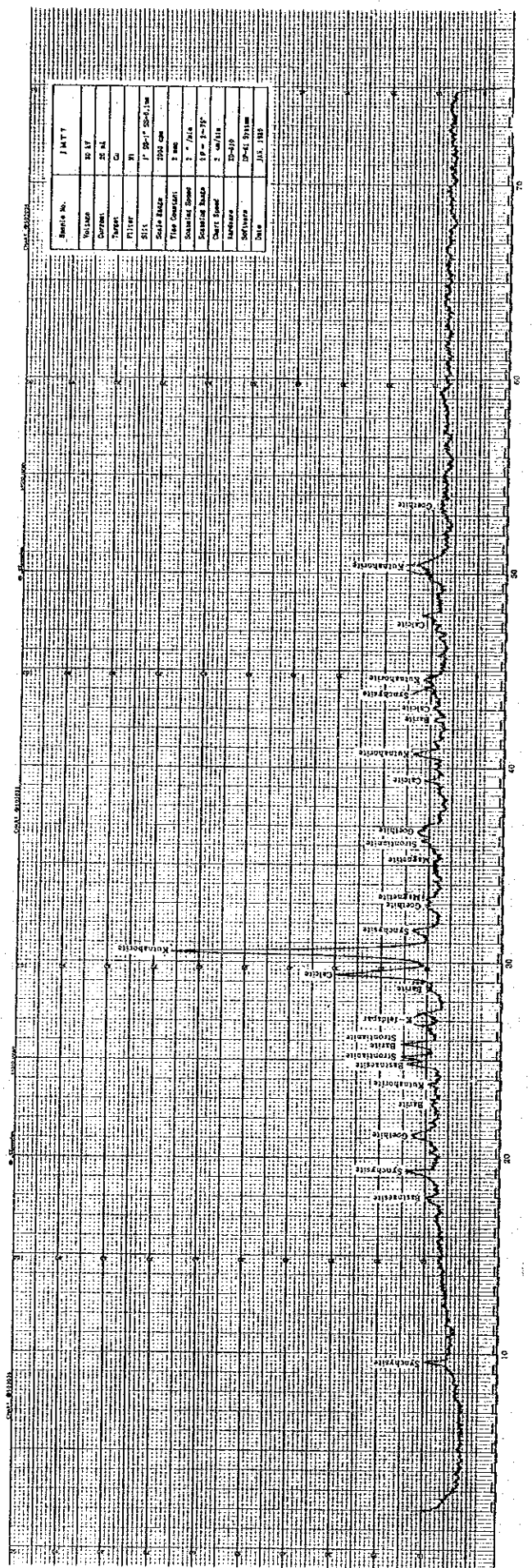
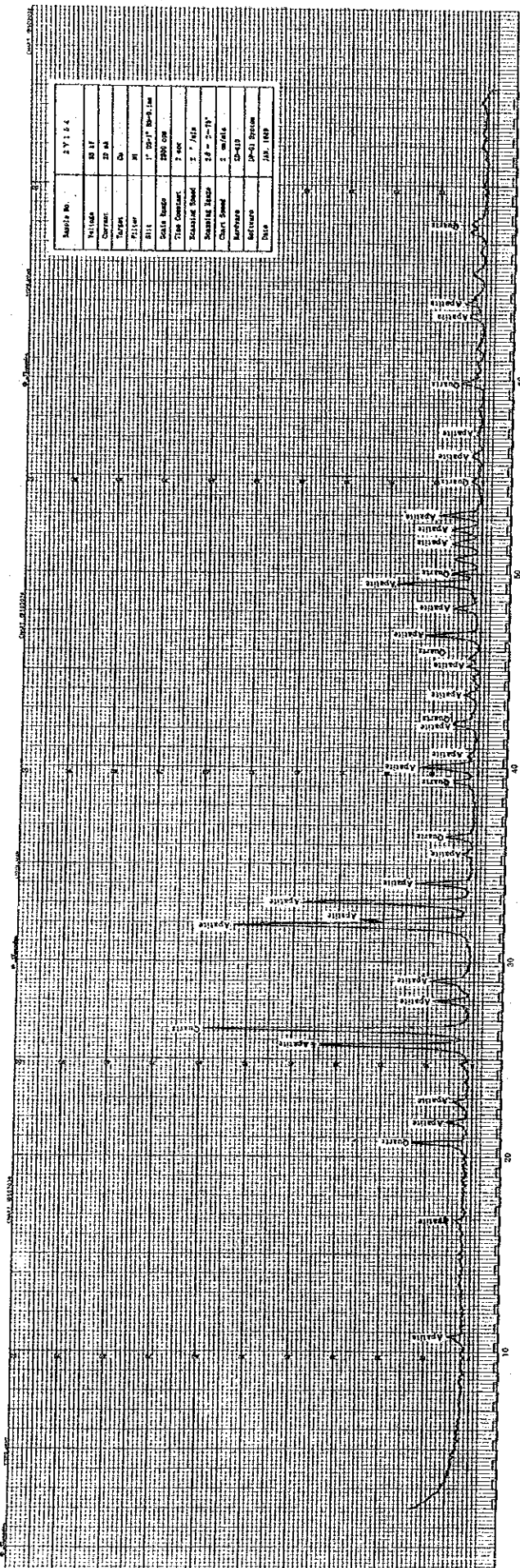
Study No.	87528
W/Lead	II, III, aVF
Current	25 mA
Filter	50 Hz
Filter	EL
Scale	1" = 0.2 sec, 10 mm
Time Constant	0.1 sec
Standard Lead	I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6
Starting Lead	I, II, III, aVR, aVL, aVF
Chart Speed	25 mm/s
Machine	12-11
Software	20-1 System
Date	JUN 1983

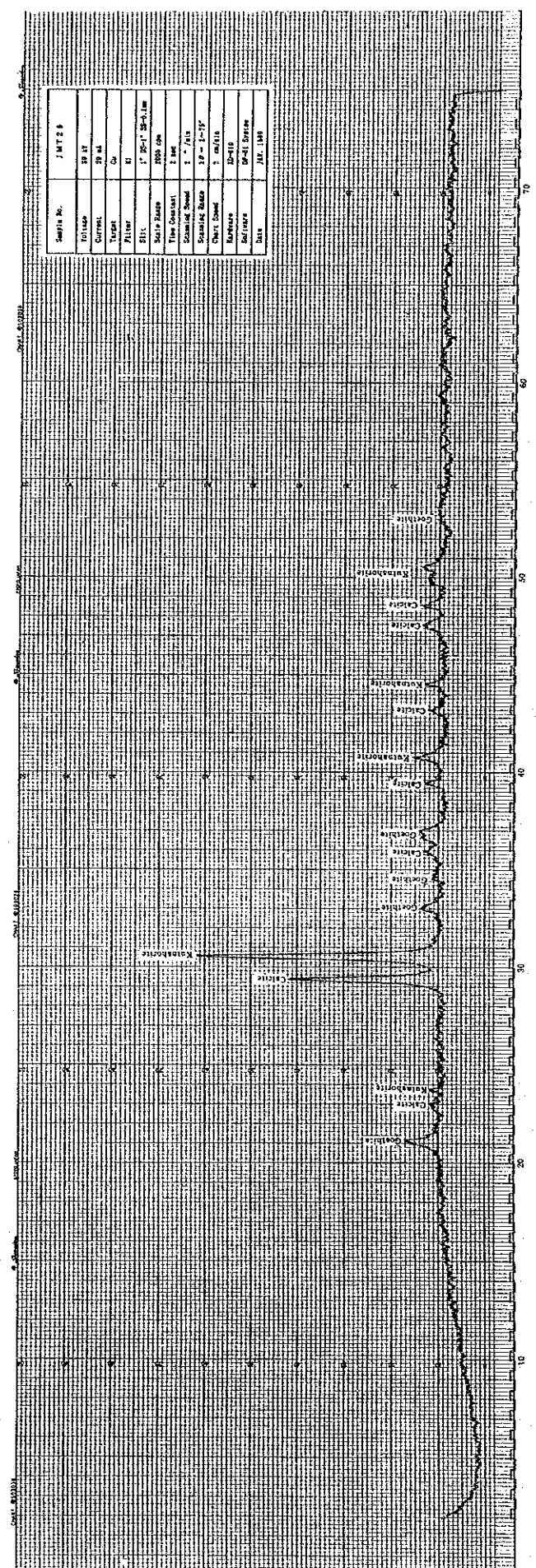
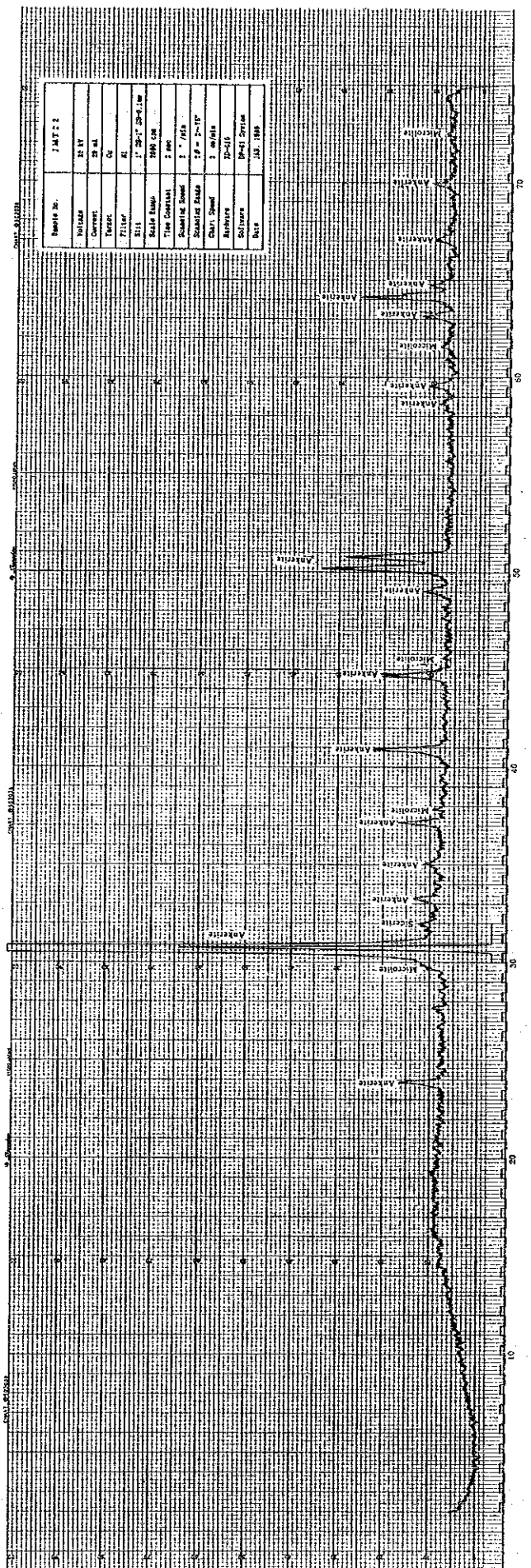


Study No.	87528
W/Lead	II, III, aVF
Current	25 mA
Filter	50 Hz
Filter	EL
Scale	1" = 0.2 sec, 10 mm
Time Constant	0.1 sec
Standard Lead	I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6
Starting Lead	I, II, III, aVR, aVL, aVF
Chart Speed	25 mm/s
Machine	12-11
Software	20-1 System
Date	JUN 1983









Appendix 5
Result of EPMA Analysis

Procedure of the quantitative analysis

The quantitative analysis has been carried out as the following experimental procedure;

(1) High quality standard samples of pyrochlore, monazite, Y-stabilized zircon (artificial) were obtained, which were checked these homogeneous qualities by an electron microprobe analyzer.

(2) Quantitative analyses of REE in these standard samples were taken by means of sequential type inductively coupled argon plasma/optical emission spectrophotometer (ICP).

(3) Polished sections of three standard samples were made for EPMA standard.

(4) Target points of REE minerals in the present specimens for the REE qualitative analyses were selected by means of optical microscopy method and X-ray deffraction method.

(5) On the basis of standard sample data [process (2) and (3)], selected target points [process (4)] were analyzed by EPMA method.

Remarks: Results of quantitative analysis for standard samples are the following;

#1(Pyrochlore)

Ca 1.1 wt.%
Ti 1.0 wt.%
Nb 52.9 wt.%
Ta 0.3 wt.%

#2(Y-stabilized zircon, artificial)

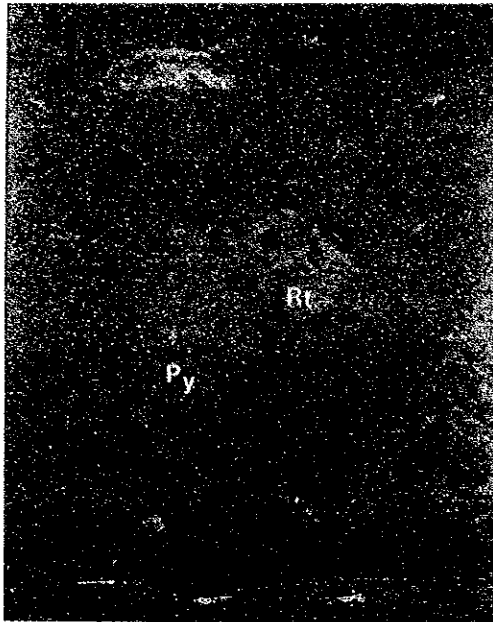
Y 35.0 wt.%
Zr 49.6 wt.%

#3(Monazite)

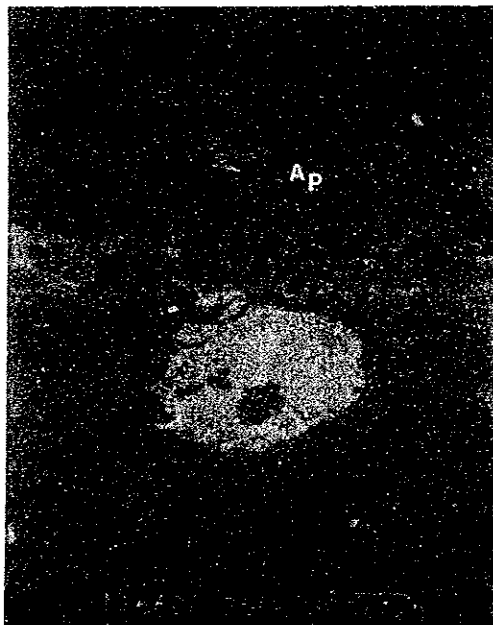
Al 2300 ppm
Ca 3.7 wt.%
Y 2.7 wt.%
Zr 1300 ppm
Nb 1.2 wt.%
La 8.2 wt.%
Ce 23.6 wt.%
Sm 4.3 wt.%
Eu 250 ppm
Gd 2.6 wt.%
Dy 1.0 wt.%
Er 1400 ppm
Yb 280 ppm
Lu 43 ppm
Th 1.1 wt.%

Result of quantitative EPMA analysis

No.	Sample No.	Sector	Locality	Rock name	Mineral	Element (wt %)													
						La	Ce	Sm	Gd	Dy	Nb	Y	Na	Ca	Ti	Th	Zr		
1	C1306	Chilwa Island	JMC-13	30.2m	Apatite sövite	Rutil	0	9.68	0	0	0	0	4.43	0	0.14	1.19	69.6	0	0.29
2	C1306	"	"	"	"	Apatite	7.12	13.7	0	0.29	0	0	0	2.44	0.12	0.83	0	1.21	1.58
3	C3211	"	-32	47.4m	Sövite	Pyrochlore	0	2.76	0	0	0	47.4	2.50	1.06	14.0	1.70	0	4.13	
4	S1604	Songwe	JMS- 4	14.0m	Iron oxide ore	Bastnaesite (?)	38.5	29.3	5.39	0.58	0	0.16	0	0.21	9.01	0	0.01	0	
5	T2501	Tundulu	JMT-15	3.2m	Apatite rock	Pyrochlore	0	0.53	2.76	0	1.62	18.7	1.28	4.07	6.32	1.21	0	2.19	
6	T2501	"	"	"	"	Bastnaesite	9.62	14.1	2.58	0.69	0	1.21	0	0.19	7.66	0	0	0	
7	T2607	"	MJT-26	28.9m	Apatite rock	Pyrochlore	0	0.16	0.59	0	0.32	19.1	0.82	0.61	6.22	0.90	0	1.44	
8	T2607	"	"	"	"	Bastnaesite	15.0	17.1	4.67	0.20	0	0	0	0	5.90	0	0.19	0	
9	8Y058	Chilwa Island	Surface		Sövite	Pyrochlore	0	1.33	3.90	0	0	37.8	1.82	1.03	11.0	1.68	0	3.26	
10	8Y058	"	"	"	"	Pyrochlore	0	1.69	0	0.84	0	33.1	3.01	1.06	12.8	1.28	0	3.70	

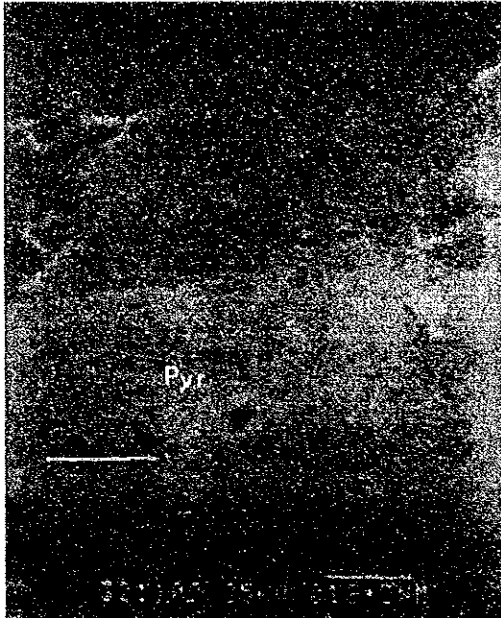


Sample No. : C 1306
Rock Name : Apatite sovite
Sector : Chilwa Is.

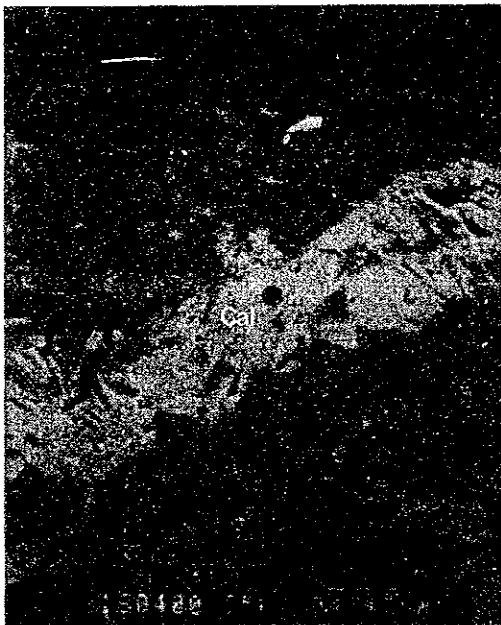
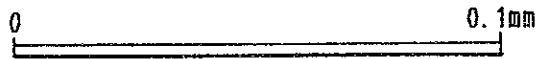


Sample No. : C 1306
Rock Name : Apatite sovite
Sector : Chilwa Is.





Sample No. : C 3211
Rock Name : Sovite
Sector : Chilwa Is.



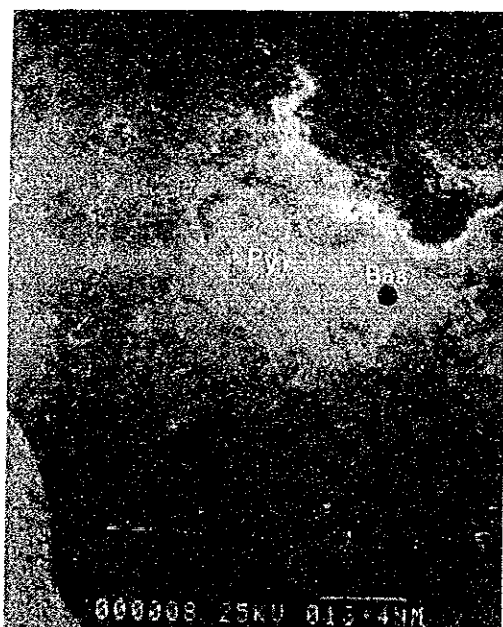
Sample No. : S 1604
Rock Name : Iron oxide ore
Sector : Songwe





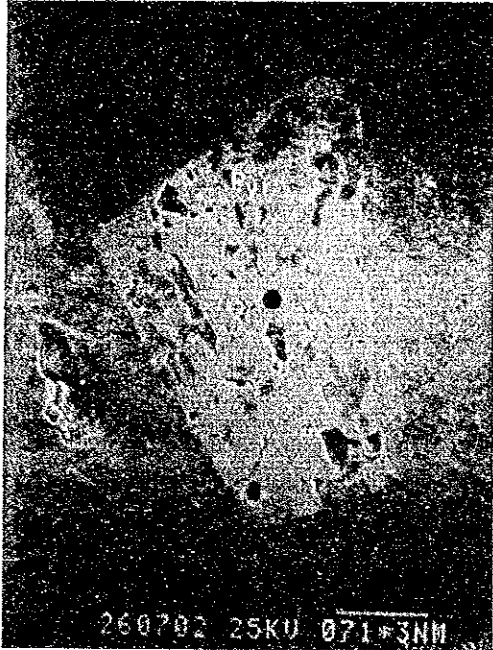
Sample No. : T 2501
Rock Name : Apatite rock
Sector : Tundulu

0 0.03mm



Sample No. : T 2501
Rock Name : Apatite rock
Sector : Tundulu

0 0.5mm



Sample No. : T 2607
Rock Name : Apatite rock
Sector : Tundulu



Sample No. : T 2607
Rock Name : Apatite rock
Sector : Tundulu

