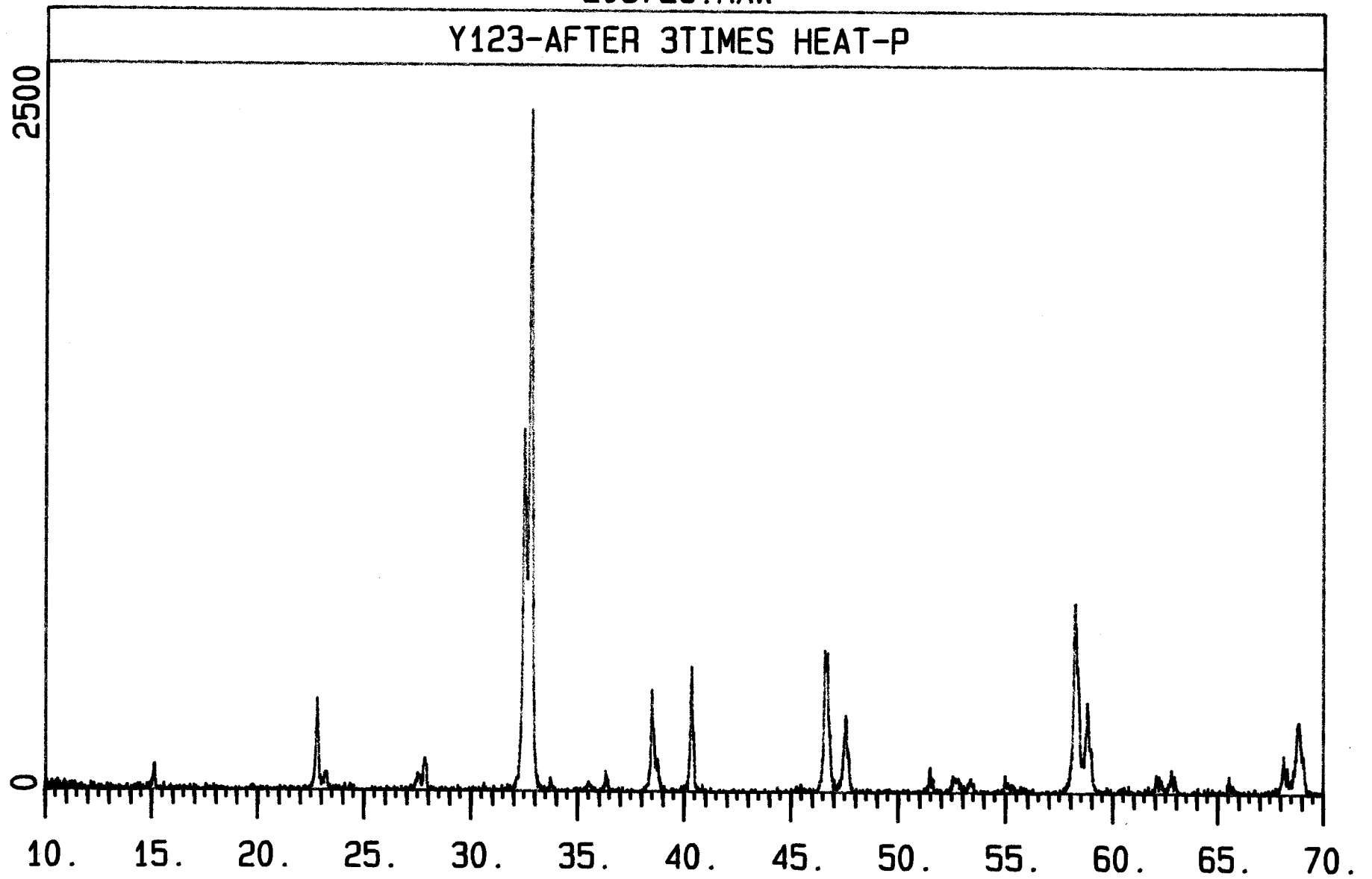


Z03726.RAW

Y123-AFTER 3TIMES HEAT-P

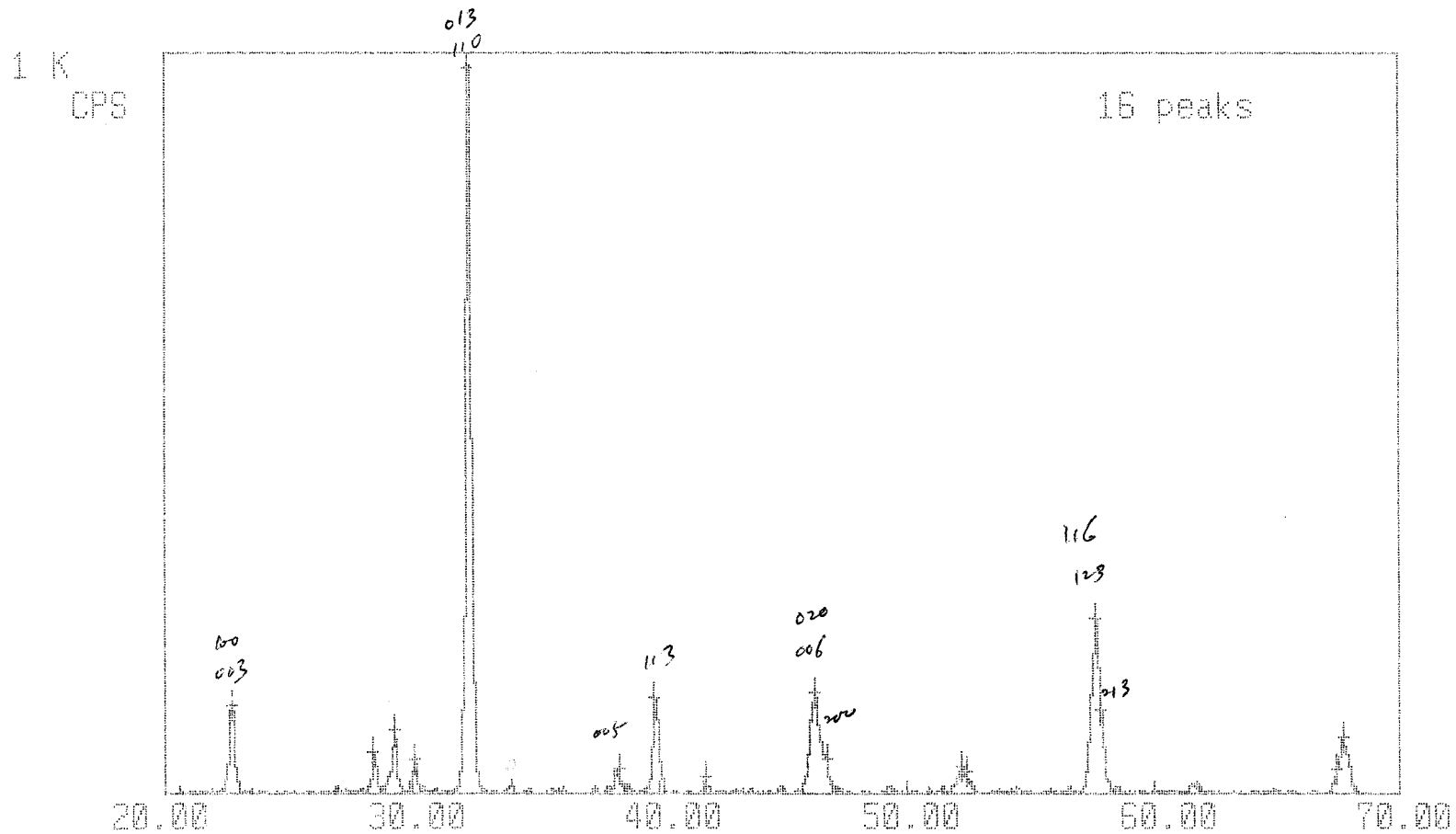


RLM0572

$0 \text{ BaCuO}_2 < 10\%$

$\text{La}_{123} > 90\%$

Sample Name : L123-330 ($\frac{1}{2}$ hr) (R. CPS)



RLM0573

L

R

Menu

XXXXXX
XXXXXX
XXXXXX

RESULTS OF 1ST SEARCH MATCH

XXXXXX
XXXXXX
XXXXXX

JCPDS FILE NAME	INORG				CHEMICAL FORMULA	R.F.
Card No.	U	S	CHEM			
1	10746	4	5	***	BA O	131
2	221056	4	5	***	BA O	121
3	50667	3	4	***	CU2 O	74
4	50661	6	8	***	CU O	62
5	201412	5	8	***	Y2 O3	34
6	331458	3	7	***	Y	26
7	30879	3	7	***	CU4 O3	25
8	300123	8	17	***	BA CU O2	22

*** Peak Search conditions ***
 SAMPLE NAME = L123-330 FILE NAME = R073100

Ka2 stripping = No execution

 Step/Sampling = .04
 SMOOTHING POINT = 0
 B.G. (Samp.) = 22
 (Const.) = 0
 (Cycle) = 22

 THRESHOLD INTENSITY = 46 cps
 THRESHOLD 2nd-deriv = 2864 cps/deg^2
 THRESHOLD WIDTH = .11 deg

Peak search result
 Intensity Unit = COUNTS

No.	2-THETA	INT.	WIDTH	d	I/I0
1	22.720	331	***	3.911	13
2	28.480	127	0.420	3.132	5
3	29.080	101	0.300	3.068	4
4	29.320	240	0.420	3.044	9
5	30.160	147	0.420	2.961	6
6	32.360	2607	0.540	2.764	100
7	33.960	53	0.420	2.638	2
8	38.120	56	0.360	2.359	2
9	38.400	94	0.420	2.342	4
10	39.840	378	0.480	2.261	14
11	41.920	71	0.420	2.153	3
12	46.120	260	***	1.967	10
13	46.360	418	0.900	1.957	16
14	46.720	150	***	1.943	6
15	52.080	75	***	1.755	3
16	52.320	100	***	1.747	4
17	57.640	660	***	1.598	25
18	61.680	62	0.420	1.503	2
19	67.720	218	***	1.383	8

Processing condition (Refinement of lattice constants, External standard method)

Sample name : L123-330
 File name of Calibration curve :
 Wave length : 1.5405000 [Å]
 Calculation mode : Least squares
 Linear absorption coefficient : 0 [1/cm]
 Thickness of Sample : 0 [cm]

No	Filename	h	k	l	2T(obs.)	2T(cor.)	DS
1		0	0	3	22.7200	22.7200	0.50
2		1	0	0	22.7200	22.7200	0.50
3		0	1	3	32.3600	32.3600	0.50
4		1	1	0	32.3600	32.3600	0.50
5		0	0	5	38.4000	38.4000	0.50
6		1	1	3	39.8800	39.8800	0.50
7		0	2	0	46.3600	46.3600	0.50
8		0	0	6	46.3600	46.3600	0.50
9		2	0	0	46.8000	46.8000	0.50
10		1	1	6	57.6800	57.6800	0.50
11		2	1	3	57.8800	57.8800	0.00

Lattice parameters:

Sample name = L123-330
 Orthorhombic system

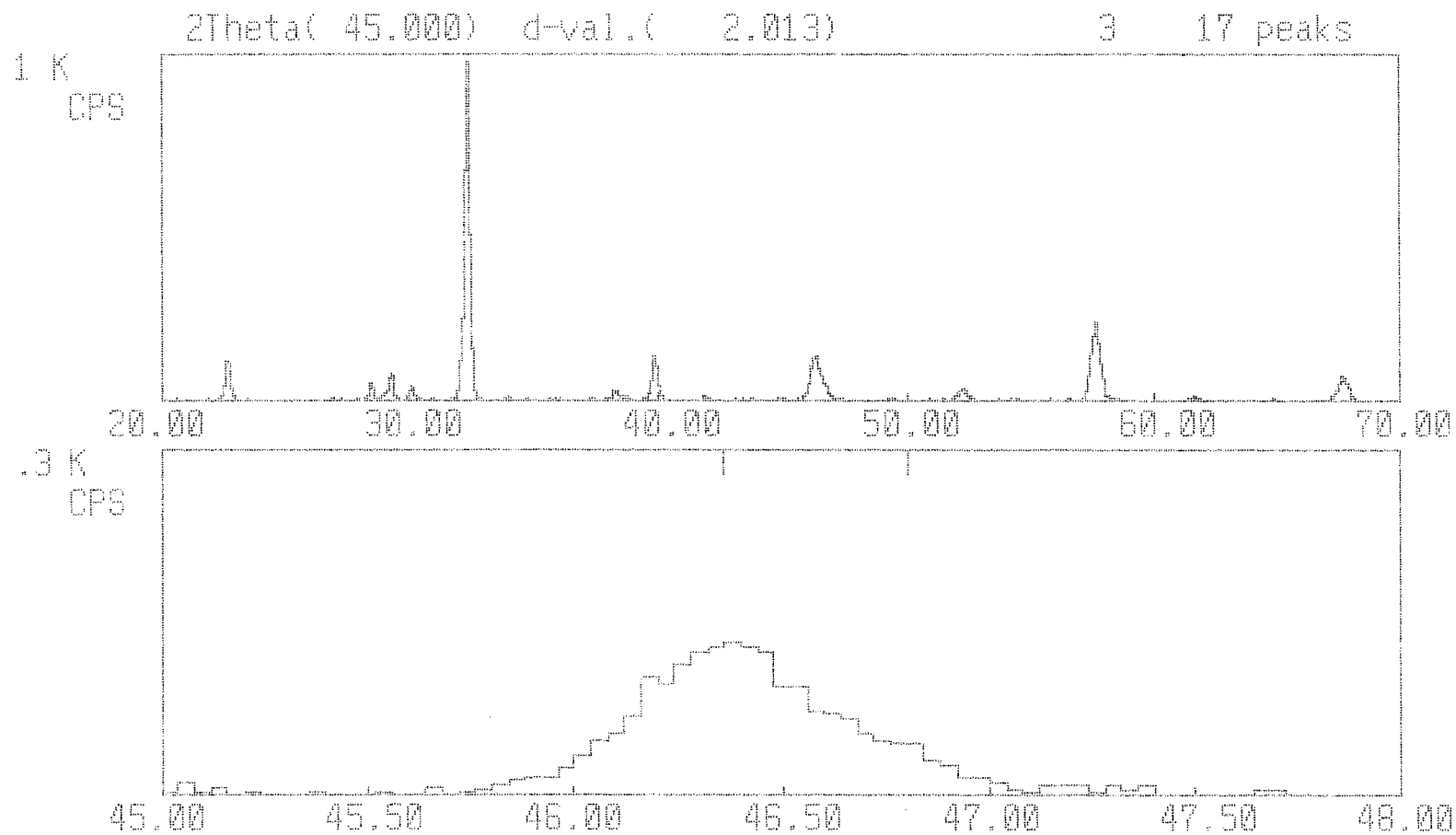
	values	st. dev.
a	3.888962	0.007156
b	3.919047	0.009009
c	11.745900	0.022838
alpha	90.000000	0.000000
beta	90.000000	0.000000
gamma	90.000000	0.000000

3.889
 3.919
 11.75

No	Filename	h	k	l	2T(obs.)	2T(cor.)	2T(cal.)	2T(obs.)-2T(cal.)
1		0	0	3	22.7200	22.7200	22.6914	0.02860
2		1	0	0	22.7200	22.7200	22.8471	-.12714
3		0	1	3	32.3600	32.3600	32.2916	0.06838
4		1	1	0	32.3600	32.3600	32.4043	-.04427
5		0	0	5	38.4000	38.4000	38.2803	0.11965
6		1	1	3	39.8800	39.8800	39.9251	-.04511
7		0	2	0	46.3600	46.3600	46.2926	0.06740
8		0	0	6	46.3600	46.3600	46.3395	0.02052
9		2	0	0	46.8000	46.8000	46.6718	0.12818
10		1	1	6	57.6800	57.6800	57.6783	0.00167
11		2	1	3	57.8800	57.8800	57.8920	-.01205

* Peak search

Sample Name : L123-330



L LEFT RIGHT HZOOM RANGE FRANG VZOOM R INSERT DELET INTEG END

Menu

**** Peak Search conditions ****
 SAMPLE NAME = L123-330 FILE NAME = R072100

Ka2 stripping = No execution

 Step/Sampling = .04
 SMOOTHING POINT = 0
 B.G. (Samp.) = 22
 (Const.) = 0
 (Cycle) = 22

 THRESHOLD INTENSITY = 28 cps
 THRESHOLD 2nd-deriv = 2197 cps/deg^2
 THRESHOLD WIDTH = .09 deg

Peak search result
 Intensity Unit = CPS

Nb.	2-THETA	INT.	WIDTH	d	I/I0
1	<u>22.720</u> ²⁰³ ₁₂₀	118	0.480	3.911	12
2	28.480	55	0.420	3.132	6
3	29.320	84	0.360	3.044	9
4	30.120	45	0.420	2.965	5
5	<u>32.360</u> ⁰¹³ ₁₁₀	984	0.540	2.764	100
6	<u>38.400</u> ⁰⁰⁵	32	0.600	2.342	3
7	<u>39.880</u> ¹¹³	129	0.540	2.259	13
8	41.920	20	***	2.153	2
9	<u>46.360</u> ^{020.06}	134	0.720	1.957	14
10	<u>46.500</u> ²⁰⁰	46	0.300	1.940	5
11	52.200	34	0.360	1.751	3
12	52.440	29	0.300	1.743	3
13	<u>57.680</u> ¹¹⁶ ₁₂₃	234	0.540	1.597	24
14	<u>57.880</u> ²¹³	113	0.240	1.592	11
15	67.400	30	0.240	1.388	3
16	67.720	74	0.780	1.383	8

Watts #2
I = 30 μ A

① $x = 1.0 \text{ mV}, 0.1 \text{ mV}$
 $y = 9 \text{ m}\Omega, 0.5 \text{ m}\Omega$

② $x = 2.0 \text{ mV}$
 $y = 9 \text{ m}\Omega$

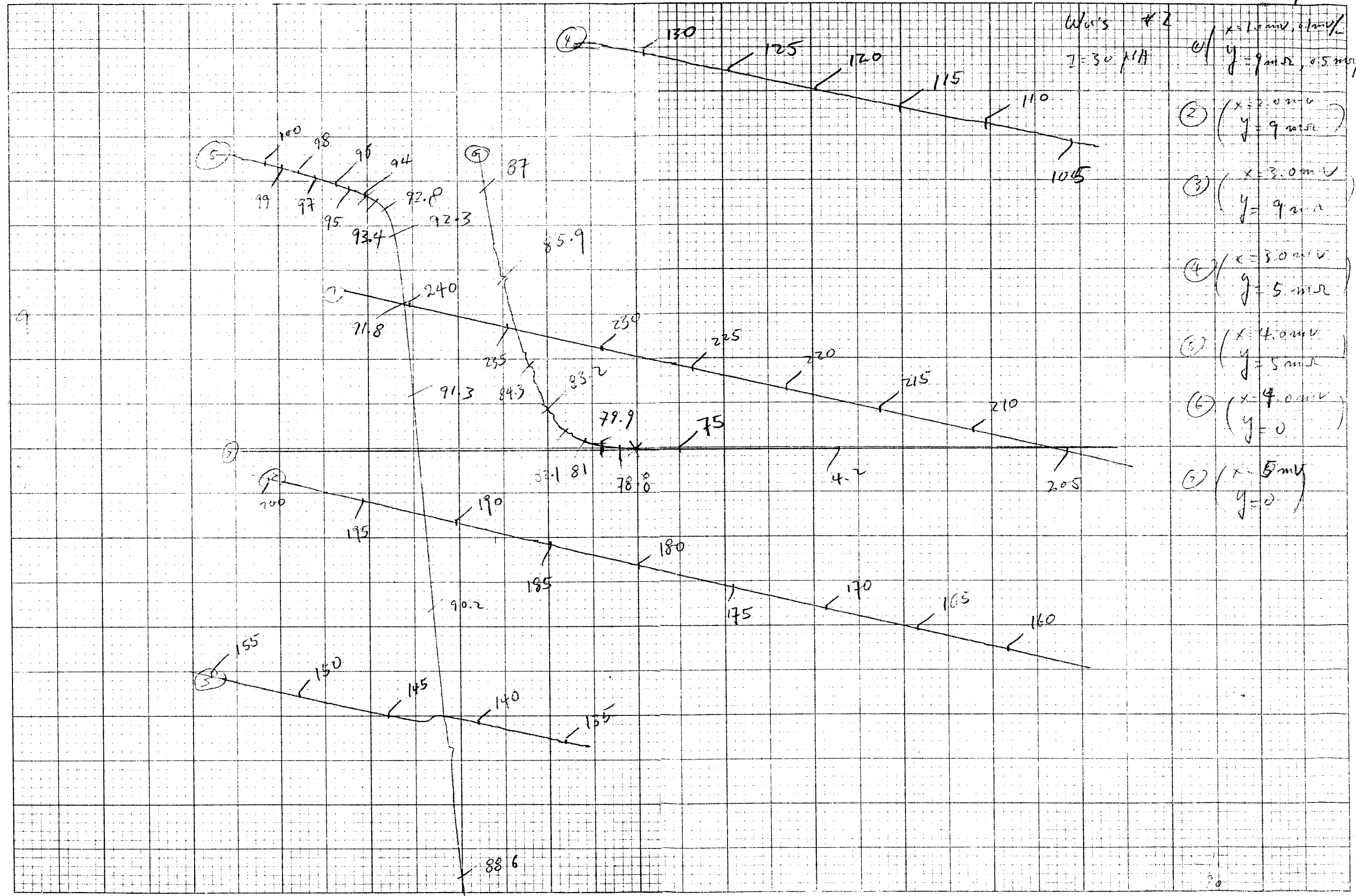
③ $x = 3.0 \text{ mV}$
 $y = 9 \text{ m}\Omega$

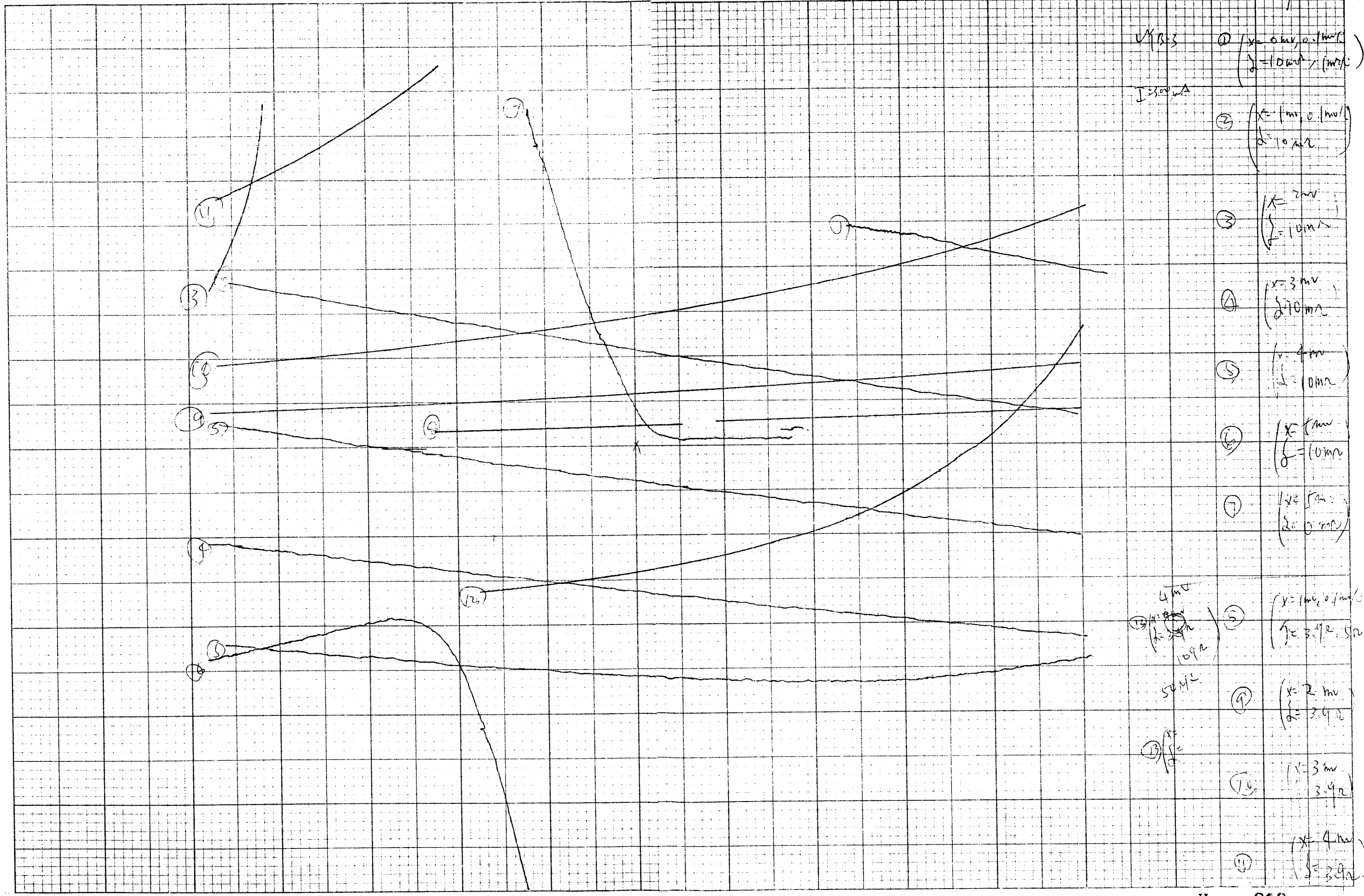
④ $x = 3.0 \text{ mV}$
 $y = 5 \text{ m}\Omega$

⑤ $x = 4.0 \text{ mV}$
 $y = 5 \text{ m}\Omega$

⑥ $x = 4.0 \text{ mV}$
 $y = 0$

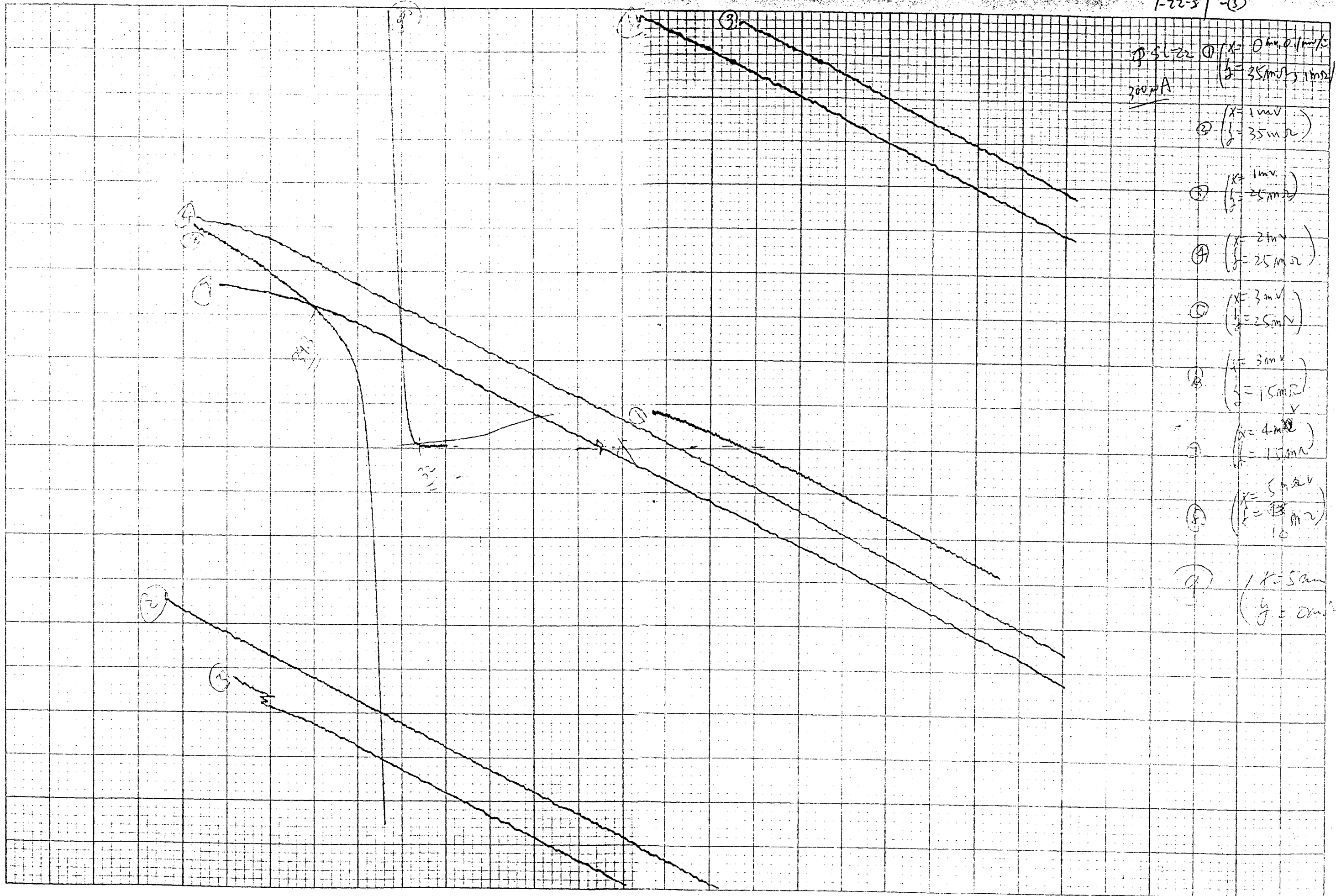
⑦ $x = 5 \text{ mV}$
 $y = 0$





21-400

1-22-87 -3



Background

11-107

(1) $(x=5.2 \text{ mV}, y=0.50 \mu\text{V})$

(2) $(x=5.1 \text{ mV}, y=0)$

(3) $(x=5.0 \text{ mV}, y=0)$

(4) $(x=5.0, y=0.1 \text{ mV})$

(5) $(x=5.0 \text{ mV}, y=-500 \mu\text{V})$

(6) $(x=5.0 \text{ mV}, y=-1 \text{ mV})$

(7) $(x=5.0 \text{ mV}, y=-1.5 \text{ mV})$

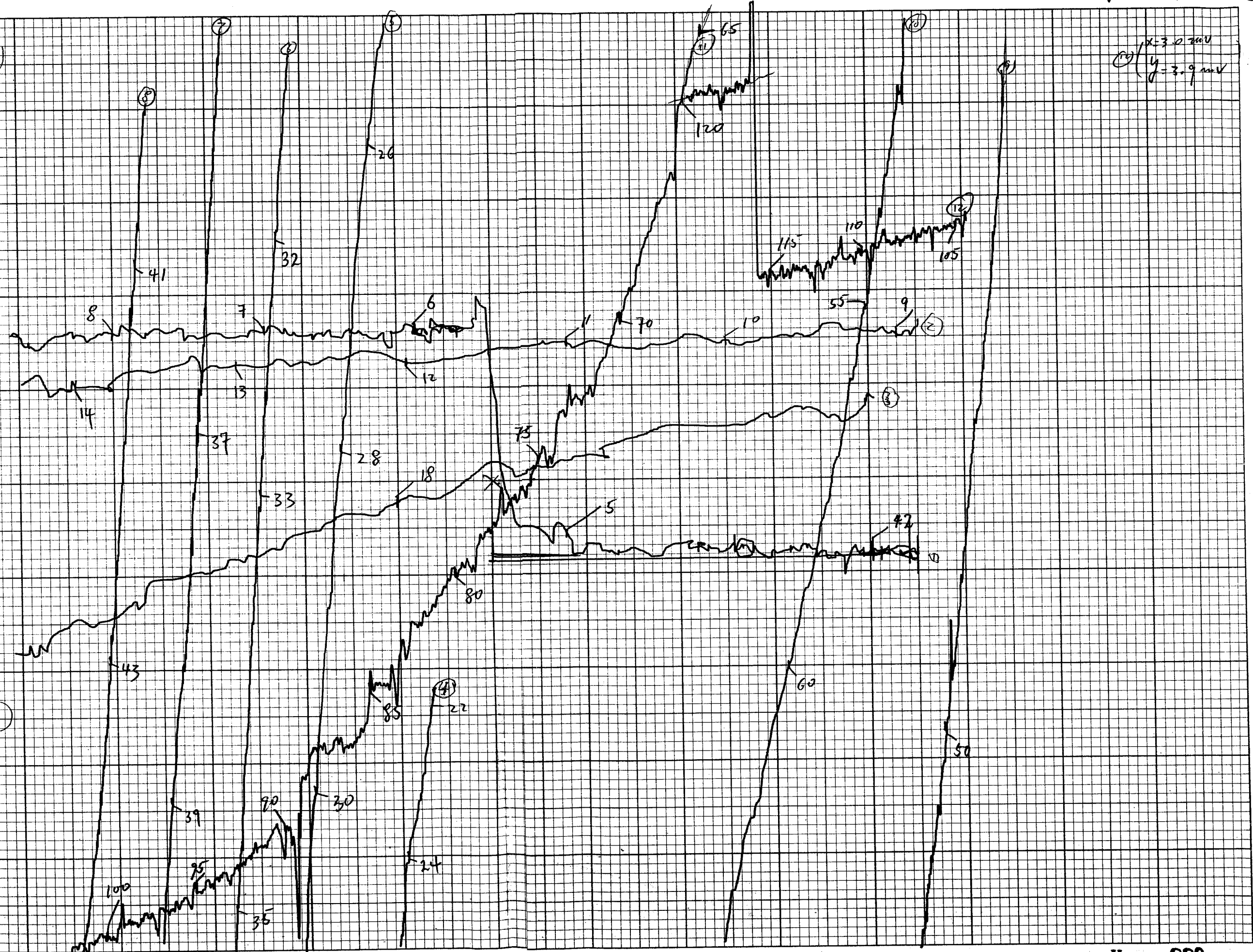
(8) $(x=5.0 \text{ mV}, y=-2 \text{ mV})$

(9) $(x=4.0 \text{ mV}, y=-1.5 \text{ mV})$

(10) $(x=4.0 \text{ mV}, y=-3 \text{ mV})$

(11) $(x=4.0 \text{ mV}, y=-3.5 \text{ mV})$

(12) $(x=3.0 \text{ mV}, y=3.9 \text{ mV})$



1112187

RLM0584

1) $x = 5.2 \text{ mV}, 0.01 \text{ mV/s}$
 $y = 0, 50 \mu\text{V/s}$

2) $x = 5.2 \text{ mV}$
 $y = -500 \mu\text{V}$

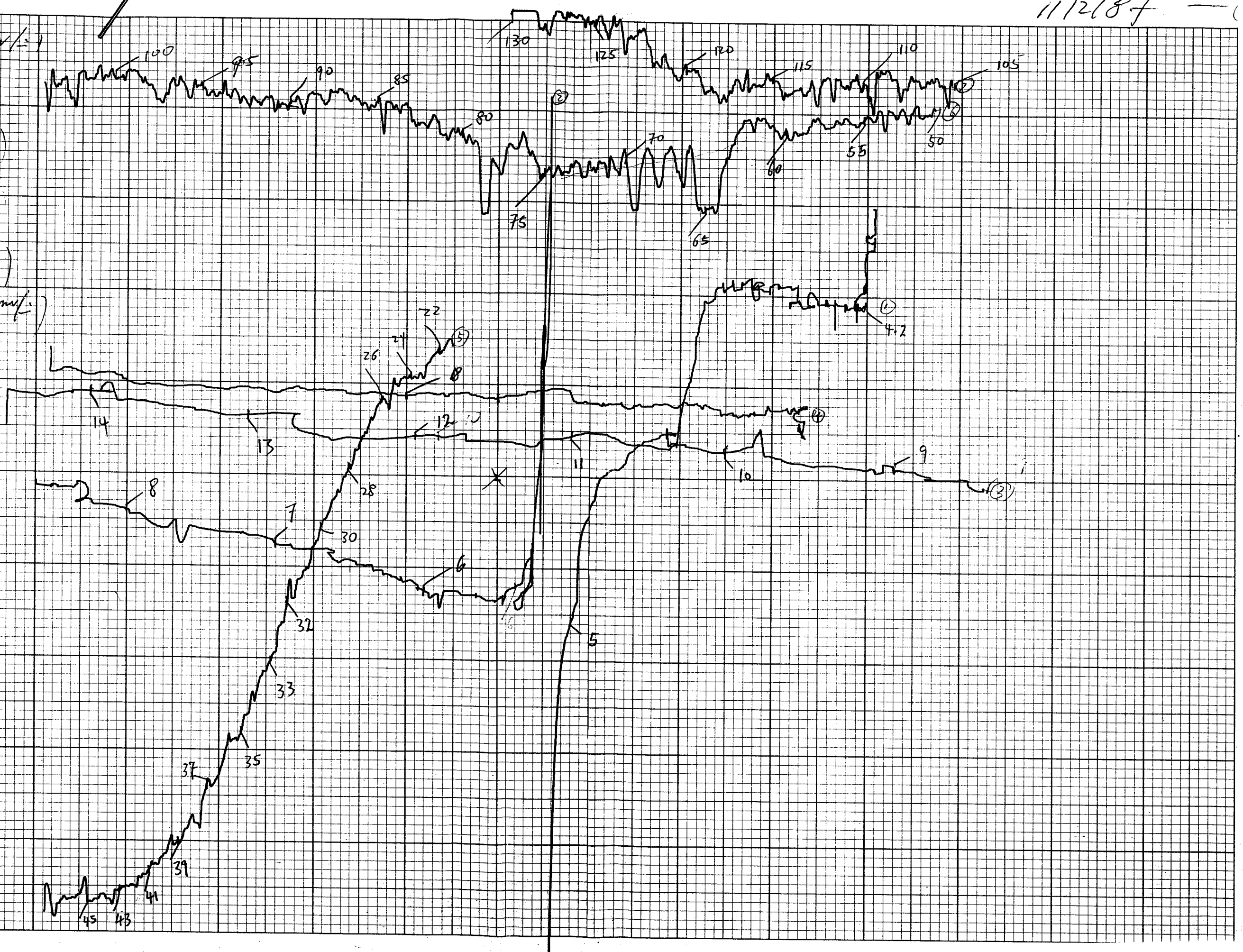
3) $x = 5.1 \text{ mV}$
 $y = -500 \mu\text{V}$

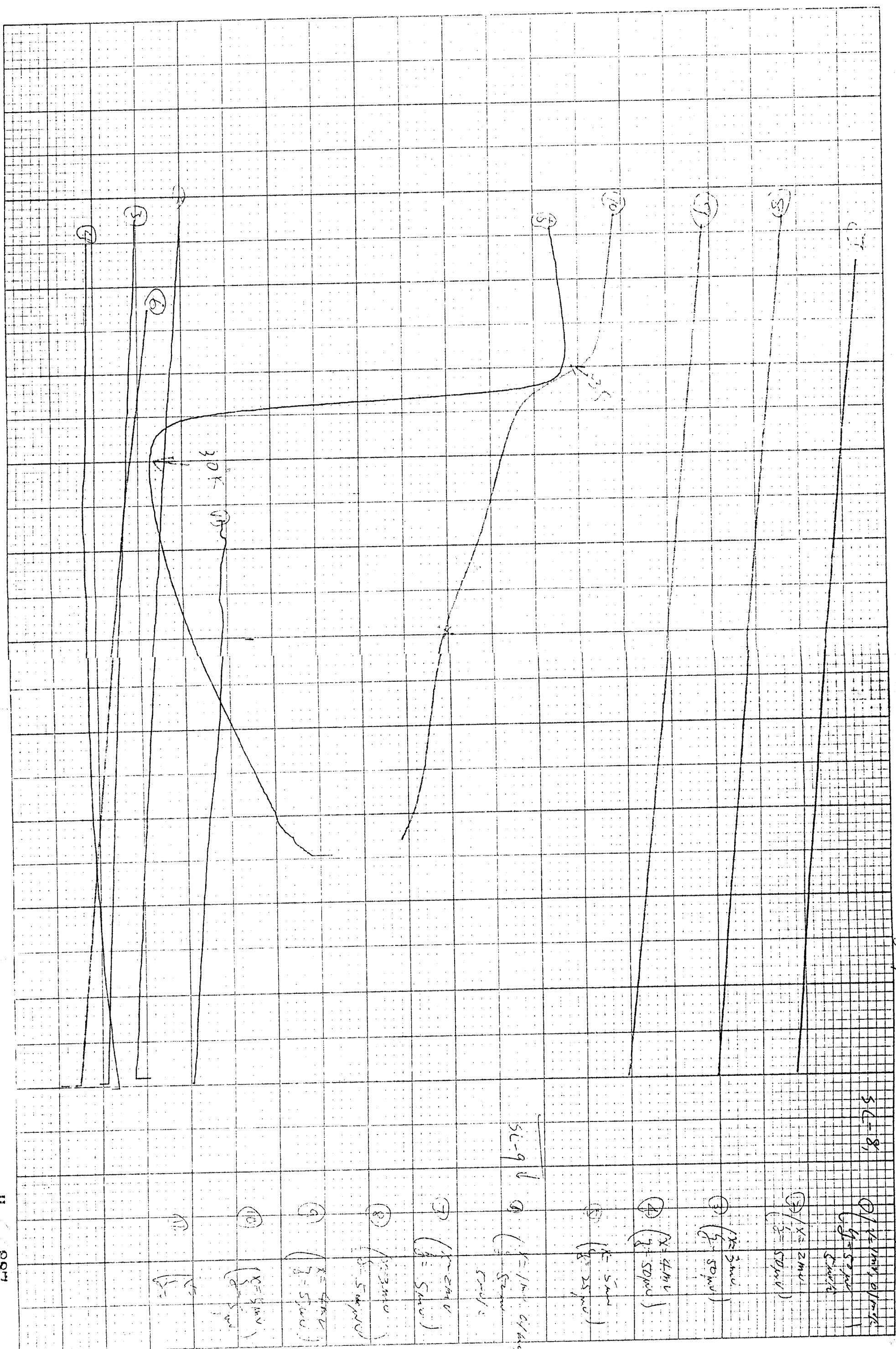
4) $x = 5.0 \text{ mV}$
 $y = -500 \mu\text{V}$

5) $x = 5.0 \text{ mV}, 0.1 \text{ mV/s}$
 $y = -500 \mu\text{V}$

6) $x = 4.0 \text{ mV}$
 $y = -900 \mu\text{V}$

7) $x = 3.0 \text{ mV}$
 $y = -900 \mu\text{V}$





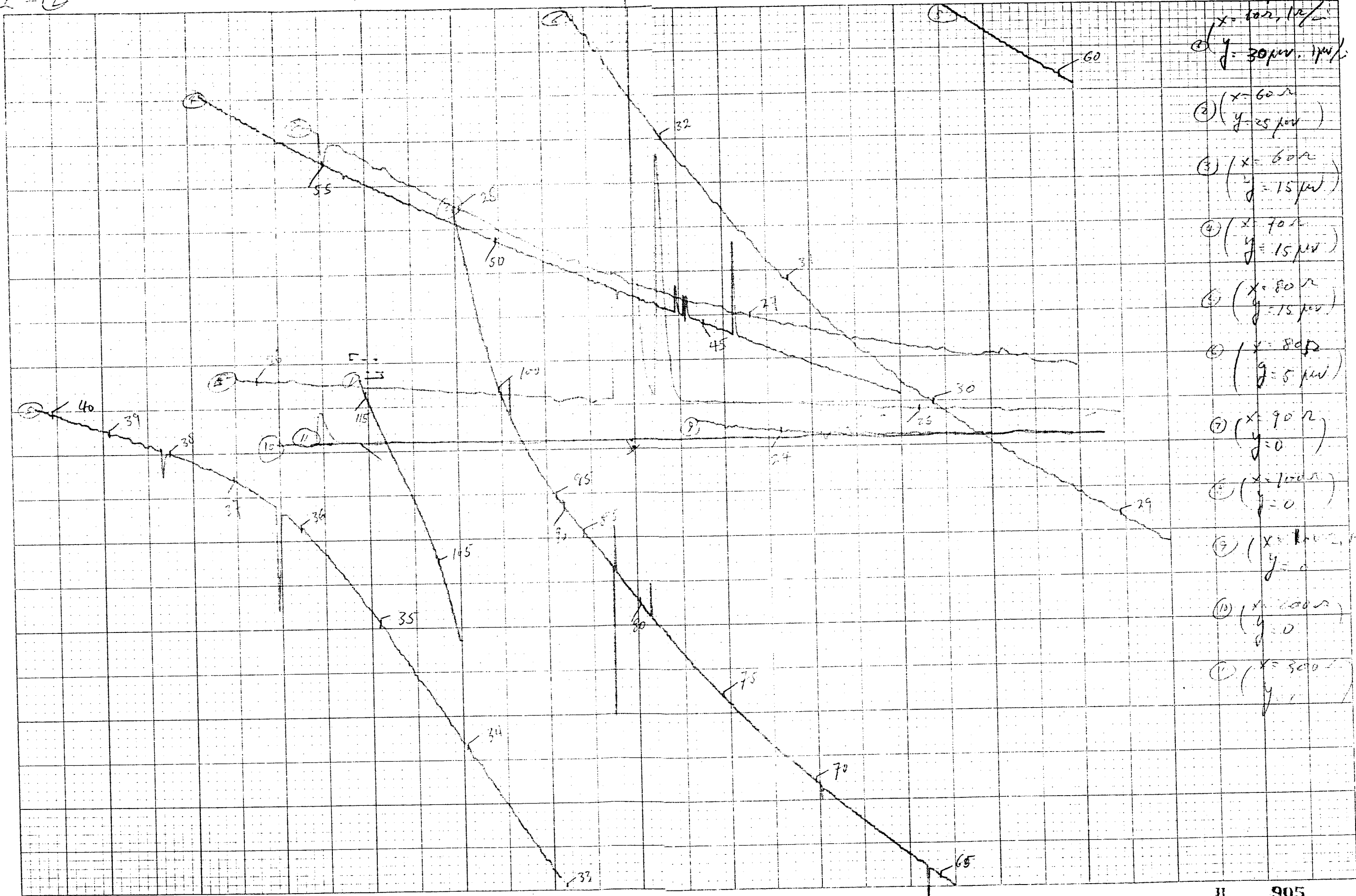
H 887

1-10-38 / 101

SL-2-②

H = 200 mV

118187 - ①



$$\textcircled{1} \begin{cases} x = 100 \mu\text{V} \\ y = 30 \mu\text{V} \end{cases}$$

$$\textcircled{2} \begin{cases} x = 60 \mu\text{V} \\ y = 25 \mu\text{V} \end{cases}$$

$$\textcircled{3} \begin{cases} x = 60 \mu\text{V} \\ y = 15 \mu\text{V} \end{cases}$$

$$\textcircled{4} \begin{cases} x = 70 \mu\text{V} \\ y = 15 \mu\text{V} \end{cases}$$

$$\textcircled{5} \begin{cases} x = 80 \mu\text{V} \\ y = 15 \mu\text{V} \end{cases}$$

$$\textcircled{6} \begin{cases} x = 80 \mu\text{V} \\ y = 5 \mu\text{V} \end{cases}$$

$$\textcircled{7} \begin{cases} x = 90 \mu\text{V} \\ y = 0 \end{cases}$$

$$\textcircled{8} \begin{cases} x = 100 \mu\text{V} \\ y = 0 \end{cases}$$

$$\textcircled{9} \begin{cases} x = 100 \mu\text{V} \\ y = 0 \end{cases}$$

$$\textcircled{10} \begin{cases} x = 100 \mu\text{V} \\ y = 0 \end{cases}$$

$$\textcircled{11} \begin{cases} x = 300 \mu\text{V} \\ y = 0 \end{cases}$$

NO. XY 1101-SP5

RECORDING UNIT: GRAPHIC CONTROLS CORPORATION BUFFALO, NEW YORK. MODEL: IN 0.1 A

RLM0586

SL-2-10

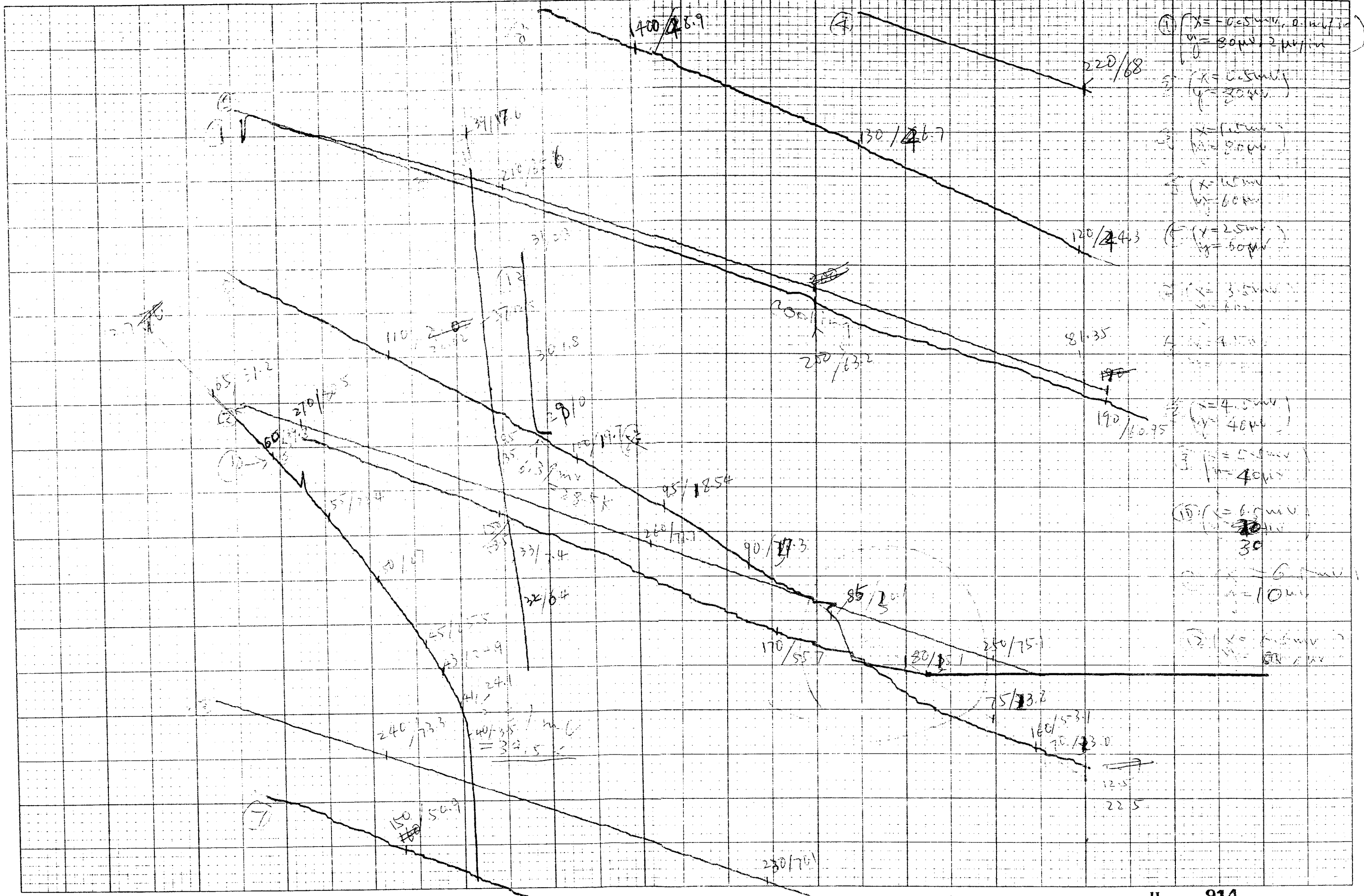
Quick Check

$f = 1 \text{ mV}$ $f = 37.7 \text{ Hz}$

1/7/86 - (1)

NO. XY 1101-SP5

RECORDING CHARTS
GRAPHIC ENGINEERING CORPORATION
BUFFALO, NEW YORK
PRINTED IN U.S.A.



- (1) $x = 0.5 \text{ mV}$, $y = 2 \text{ mV}$
- (2) $x = 0.5 \text{ mV}$, $y = 30 \text{ mV}$
- (3) $x = 1 \text{ mV}$, $y = 50 \text{ mV}$
- (4) $x = 1 \text{ mV}$, $y = 60 \text{ mV}$
- (5) $x = 2.5 \text{ mV}$, $y = 50 \text{ mV}$
- (6) $x = 3.5 \text{ mV}$, $y = 40 \text{ mV}$
- (7) $x = 4.5 \text{ mV}$, $y = 40 \text{ mV}$
- (8) $x = 5.5 \text{ mV}$, $y = 40 \text{ mV}$
- (9) $x = 6.5 \text{ mV}$, $y = 30 \text{ mV}$
- (10) $x = 6.5 \text{ mV}$, $y = 10 \text{ mV}$
- (11) $x = 6.5 \text{ mV}$, $y = 5 \text{ mV}$

RLM0587

SC 2 (2)

I = 1 mA

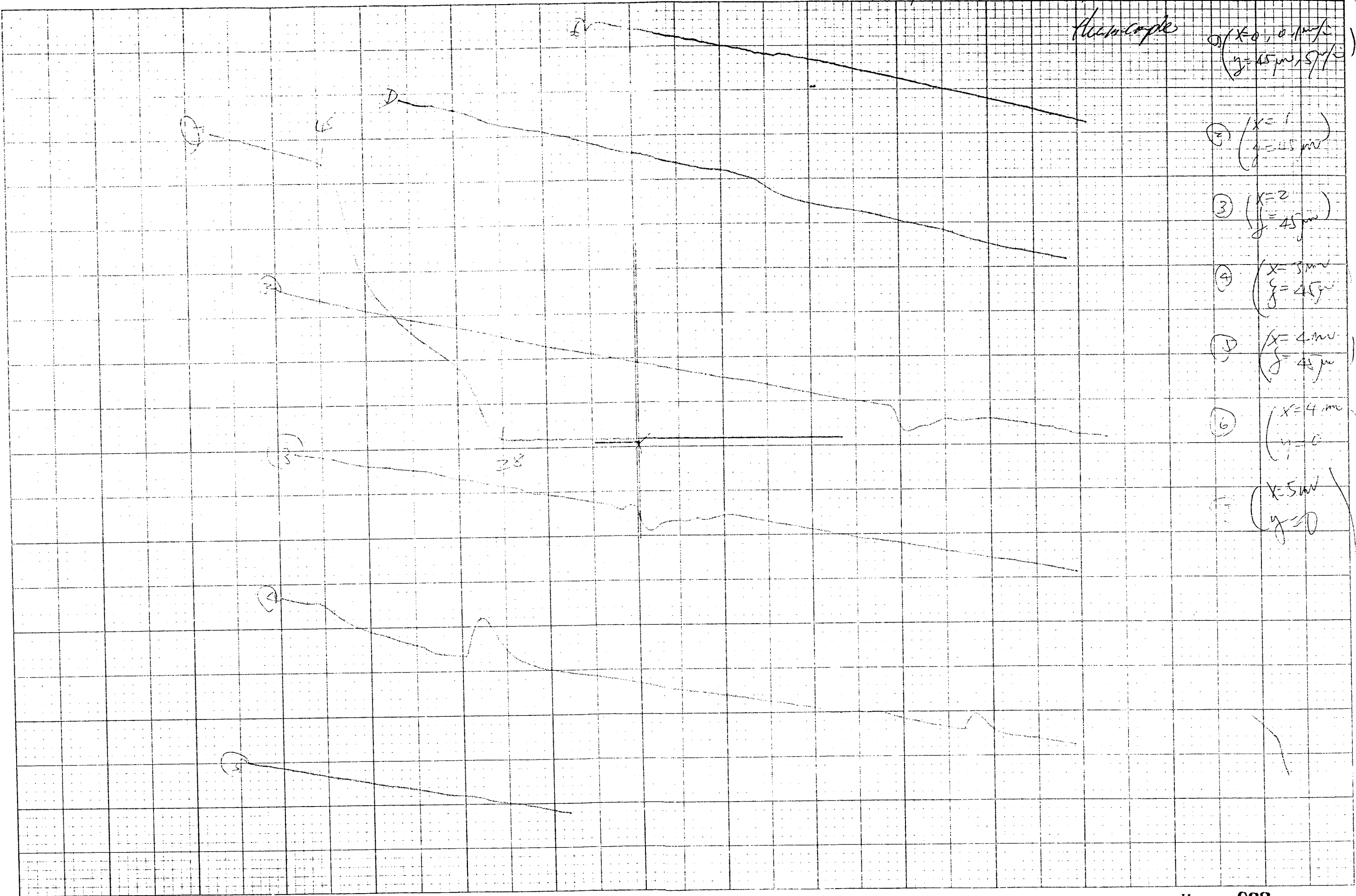
1/2/81

Am - Fe

Microscope

NO. XY 1101-SP5

RECORDING CHARTS
GRAPHIC CONCEPTS CORPORATION
BUFFALO, NEW YORK
PRINTED IN U.S.A.



$$1) \begin{pmatrix} x=0, 0 \mu\text{m} \\ y=45 \mu\text{m}, 9 \mu\text{m} \end{pmatrix}$$

$$2) \begin{pmatrix} x=1 \\ y=45 \mu\text{m} \end{pmatrix}$$

$$3) \begin{pmatrix} x=2 \\ y=45 \mu\text{m} \end{pmatrix}$$

$$4) \begin{pmatrix} x=3 \text{ mm} \\ y=45 \mu\text{m} \end{pmatrix}$$

$$5) \begin{pmatrix} x=4 \text{ mm} \\ y=45 \mu\text{m} \end{pmatrix}$$

$$6) \begin{pmatrix} x=4 \text{ mm} \\ y=0 \end{pmatrix}$$

$$7) \begin{pmatrix} x=5 \text{ mm} \\ y=0 \end{pmatrix}$$

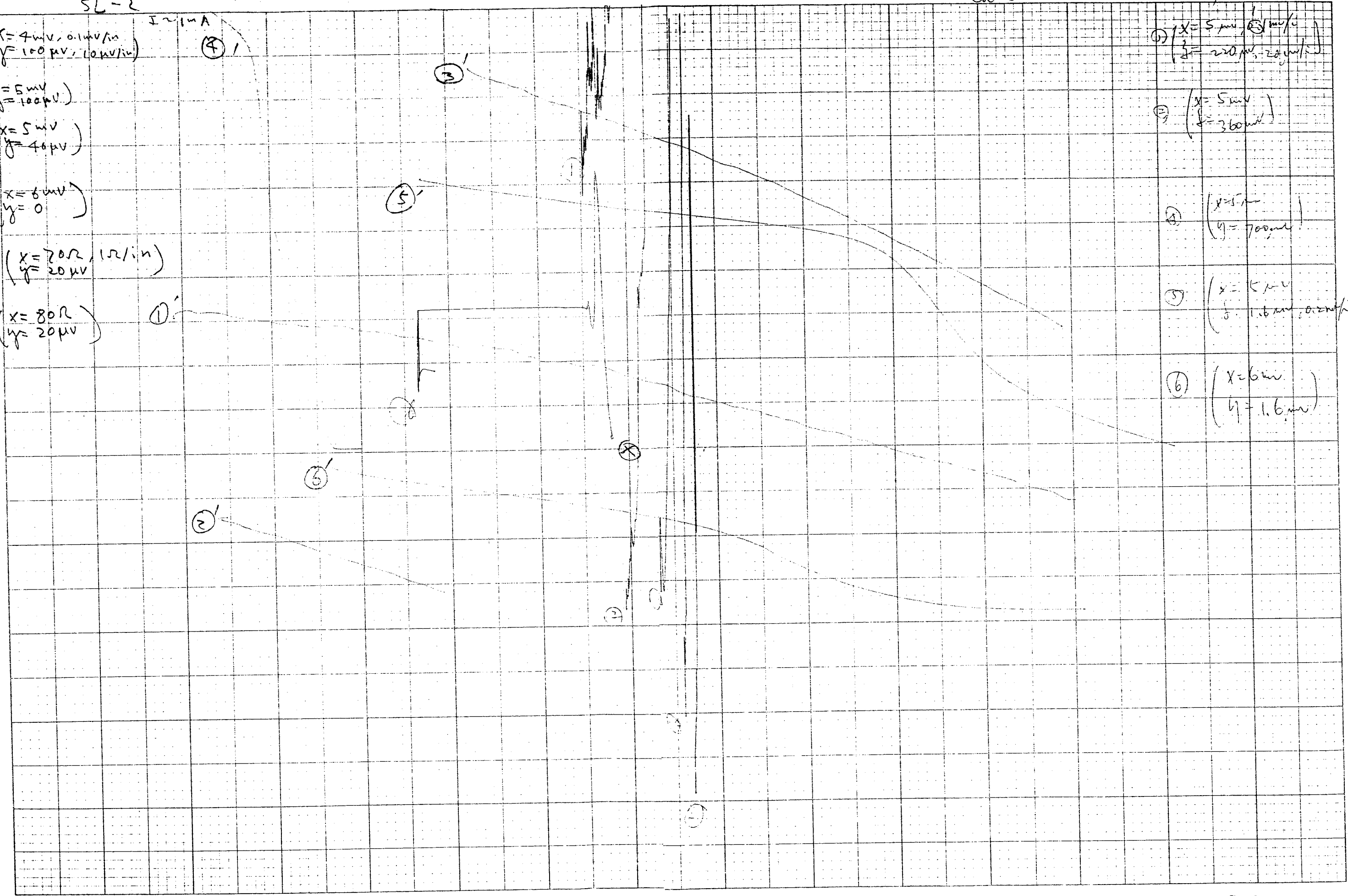
Sample SL-2 SL-2

for use in n Cw-constant 1-3-81

NO XY 1101-SP5
Carbon

- ①' (x=4mV, 0.1mV/in
y=100μV, 10μV/in)
- ②' (x=5mV
y=100μV)
- ③' (x=5mV
y=40μV)
- ④' (x=6mV
y=0)
- ⑤' (x=70Ω, 1Ω/in
y=20μV)
- ⑥' (x=80Ω
y=20μV)

- ① (x=5mV, 0.5mV/in
y=200μV, 20μV/in)
- ② (x=5mV
y=360μV)
- ③ (x=5mV
y=700μV)
- ④ (x=5mV
y=1.6mV, 0.2mV/in)
- ⑤ (x=6mV
y=1.6mV)



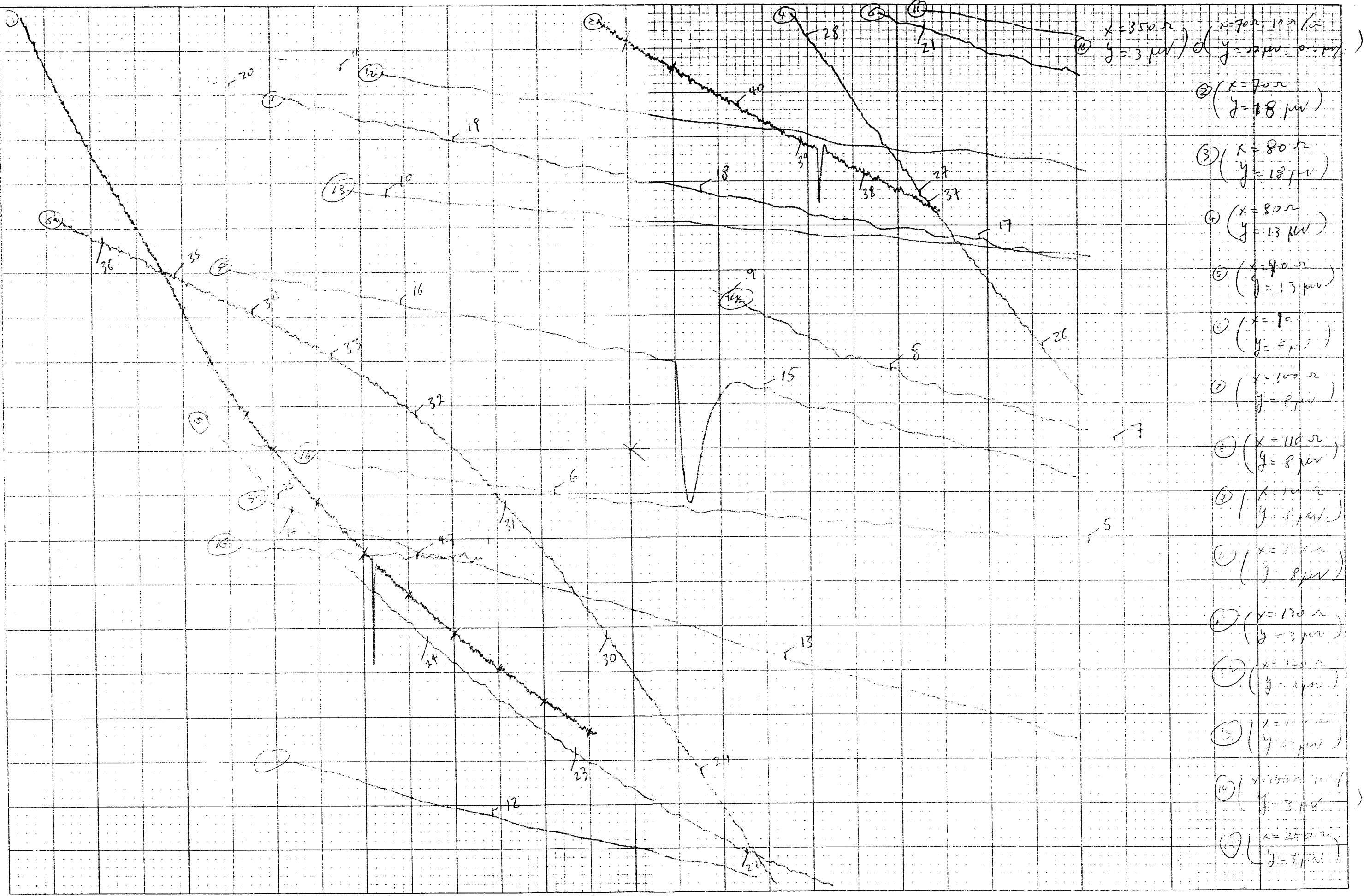
RECORDING CHARIS!
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
PRINTED IN U.S.A.

RLM0589

La - S Cu - O

H = 300 mV

11187 - C



- ① ($x = 350 \Omega$
 $y = 3 \mu V$)
- ② ($x = 70 \Omega$
 $y = 18 \mu V$)
- ③ ($x = 80 \Omega$
 $y = 18 \mu V$)
- ④ ($x = 80 \Omega$
 $y = 13 \mu V$)
- ⑤ ($x = 90 \Omega$
 $y = 13 \mu V$)
- ⑥ ($x = 10 \Omega$
 $y = 9 \mu V$)
- ⑦ ($x = 100 \Omega$
 $y = 8 \mu V$)
- ⑧ ($x = 110 \Omega$
 $y = 8 \mu V$)
- ⑨ ($x = 10 \Omega$
 $y = 1 \mu V$)
- ⑩ ($x = 120 \Omega$
 $y = 8 \mu V$)
- ⑪ ($x = 130 \Omega$
 $y = 3 \mu V$)
- ⑫ ($x = 120 \Omega$
 $y = 3 \mu V$)
- ⑬ ($x = 150 \Omega$
 $y = 2 \mu V$)
- ⑭ ($x = 150 \Omega$
 $y = 3 \mu V$)
- ⑮ ($x = 250 \Omega$
 $y = 3 \mu V$)

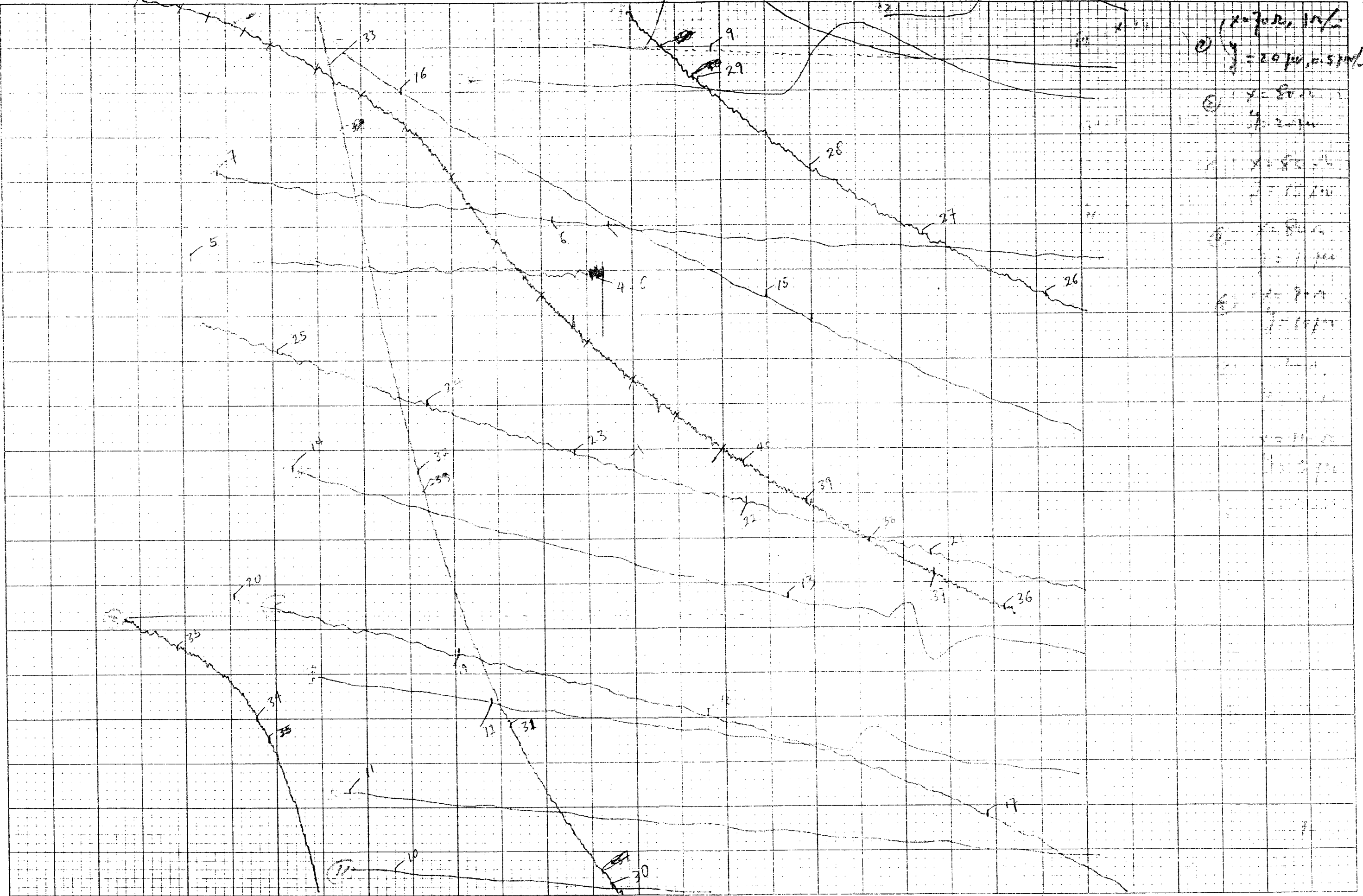
NO. XY 1101-SF'S

RECORDING CHARTS
GENERAL ELECTRIC CORPORATION
MILWAUKEE, WISCONSIN

RLM0590

H=50 mV

11187 - (2)



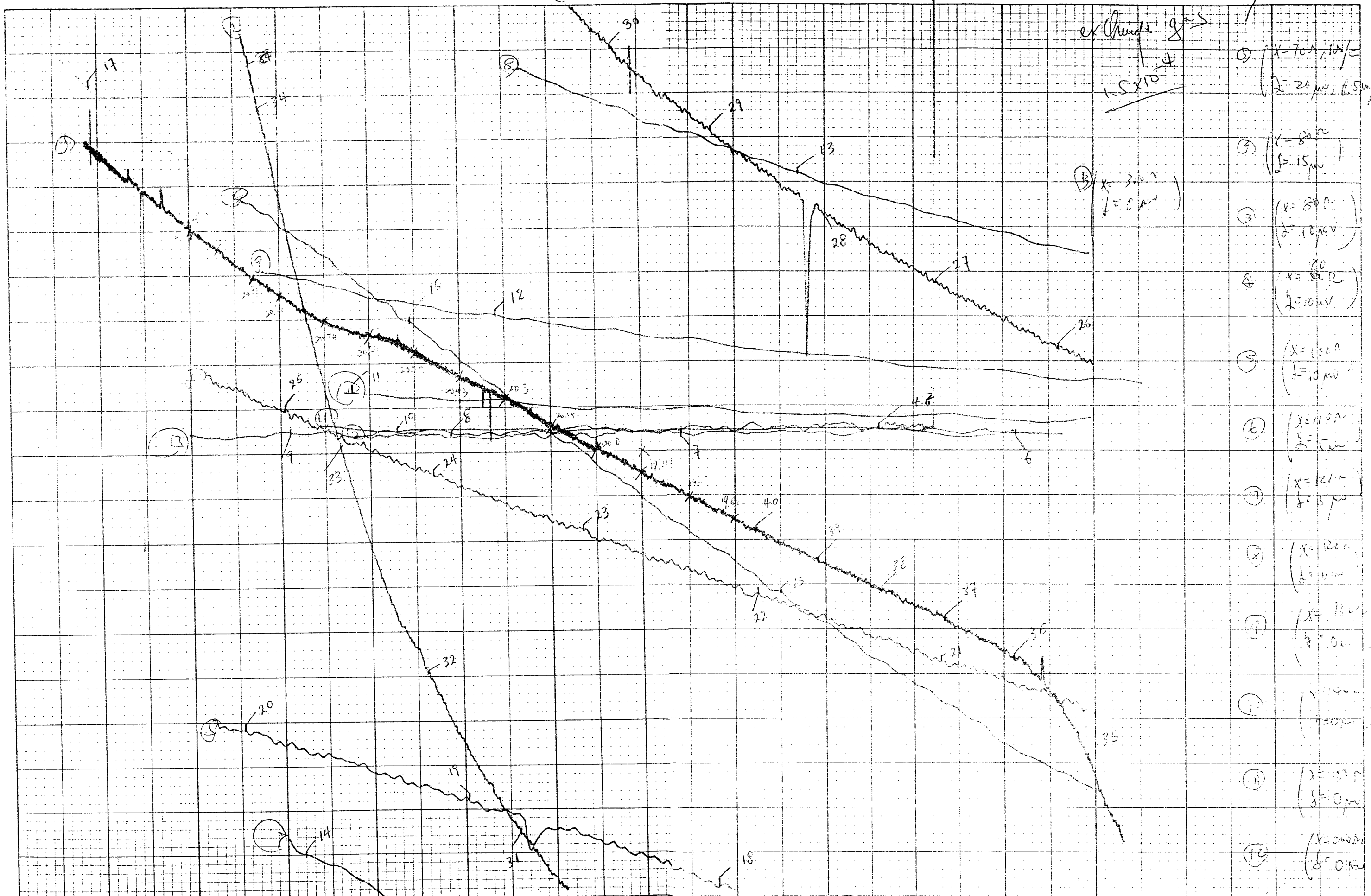
$x = 700, 100$
 $y = 20, 10, 5, 2, 1$
 $z = 50, 100$
 $t = 10, 20, 30, 40, 50$
 $u = 10, 20, 30, 40, 50$
 $v = 10, 20, 30, 40, 50$
 $w = 10, 20, 30, 40, 50$
 $x = 700, 100$
 $y = 20, 10, 5, 2, 1$
 $z = 50, 100$
 $t = 10, 20, 30, 40, 50$
 $u = 10, 20, 30, 40, 50$
 $v = 10, 20, 30, 40, 50$
 $w = 10, 20, 30, 40, 50$

$L_0 - S_1 - L_1 = 0$

$I = 1 \text{ mA}$

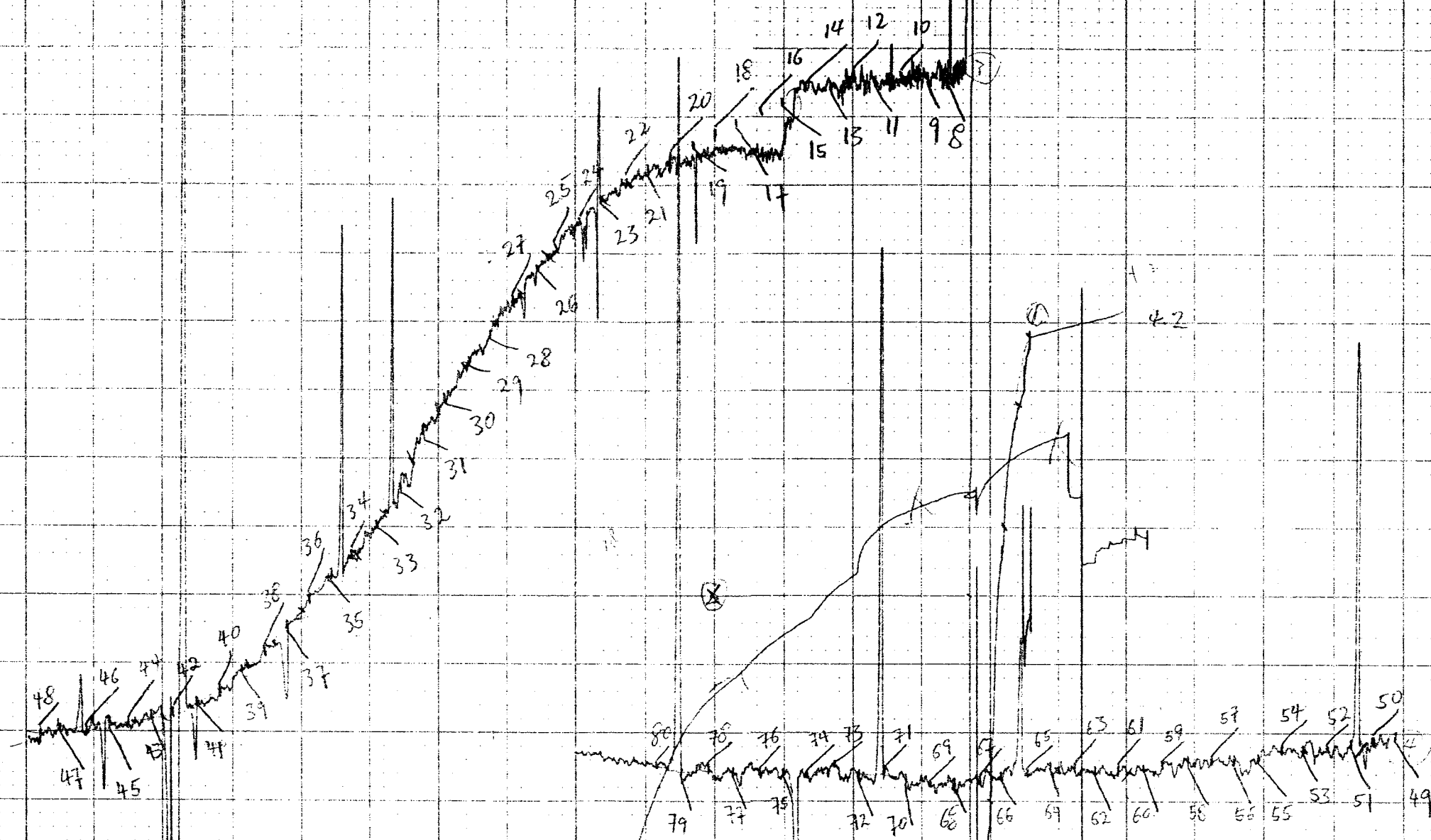
1-1-87

exchange gas
 1.5×10^{-4}



- ① $(x = 70 \mu, \lambda = 10 \mu)$
 $(\delta = 20 \mu, \beta = 5 \mu)$
- ② $(x = 80 \mu, \lambda = 15 \mu)$
- ③ $(x = 80 \mu, \lambda = 10 \mu)$
- ④ $(x = 80 \mu, \lambda = 10 \mu)$
- ⑤ $(x = 100 \mu, \lambda = 10 \mu)$
- ⑥ $(x = 110 \mu, \lambda = 5 \mu)$
- ⑦ $(x = 120 \mu, \lambda = 5 \mu)$
- ⑧ $(x = 120 \mu, \lambda = 10 \mu)$
- ⑨ $(x = 130 \mu, \lambda = 0 \mu)$
- ⑩ $(x = 130 \mu, \lambda = 0 \mu)$
- ⑪ $(x = 150 \mu, \lambda = 0 \mu)$
- ⑫ $(x = 200 \mu, \lambda = 0 \mu)$

- ① 1000 mV
1 cm
- ② 1000 mV
1 cm
- ③ 1000 mV
1 cm
- ④ 1000 mV
1 cm



NO. XY 1101-SP5

BIOPHIC LABORATORIES CORPORATION
BUFFALO, NEW YORK
PRINTED IN U.S.A.

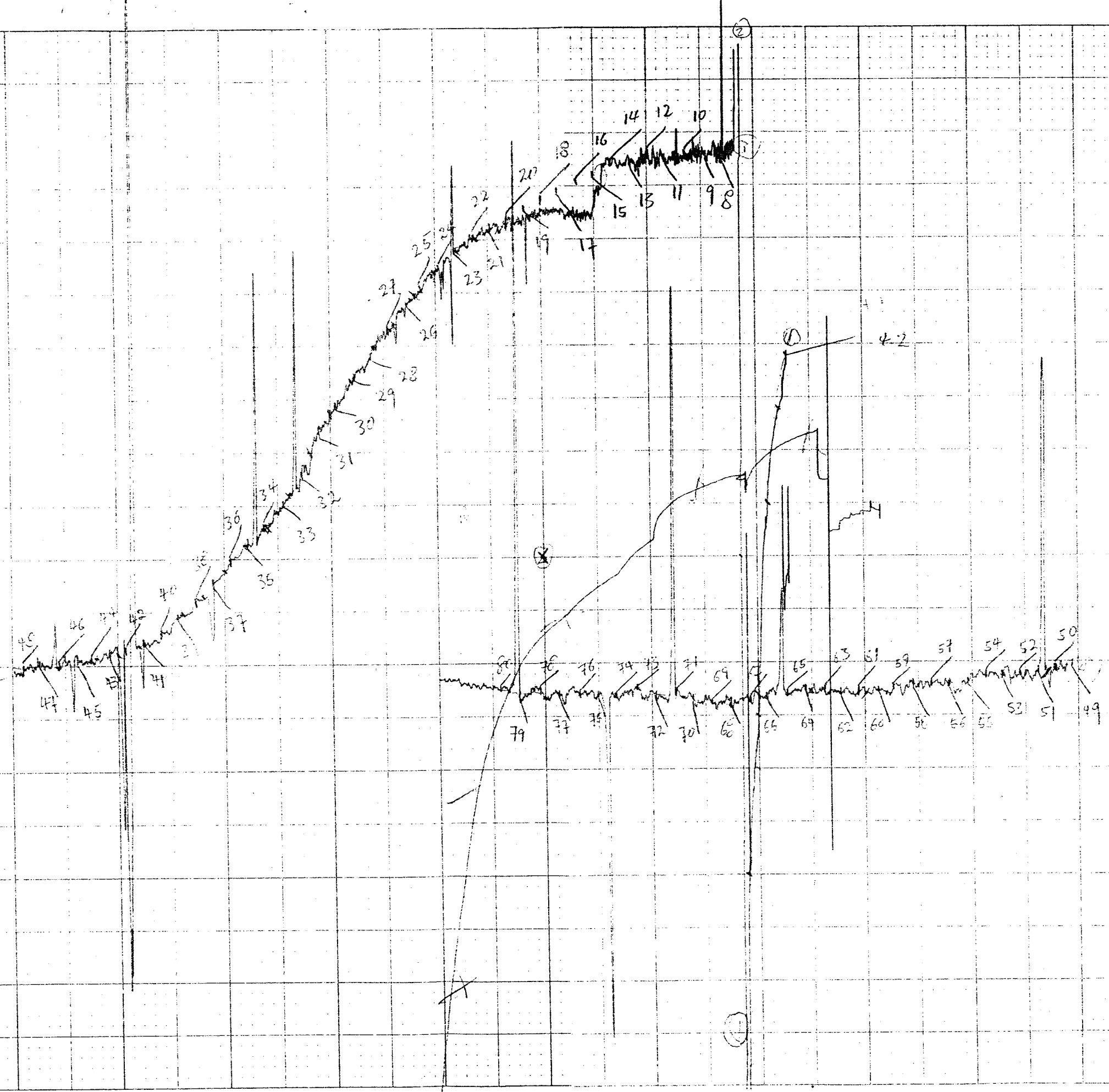
RLM0593

NO XY 1101-SP5

RECORDING CHARTS

Dr. #1
 1) ...
 2) ...
 3) ...
 4) ...

Dr. Win's #3
 LaSalle
 Win by the
 Dayle Camp
 to Houston



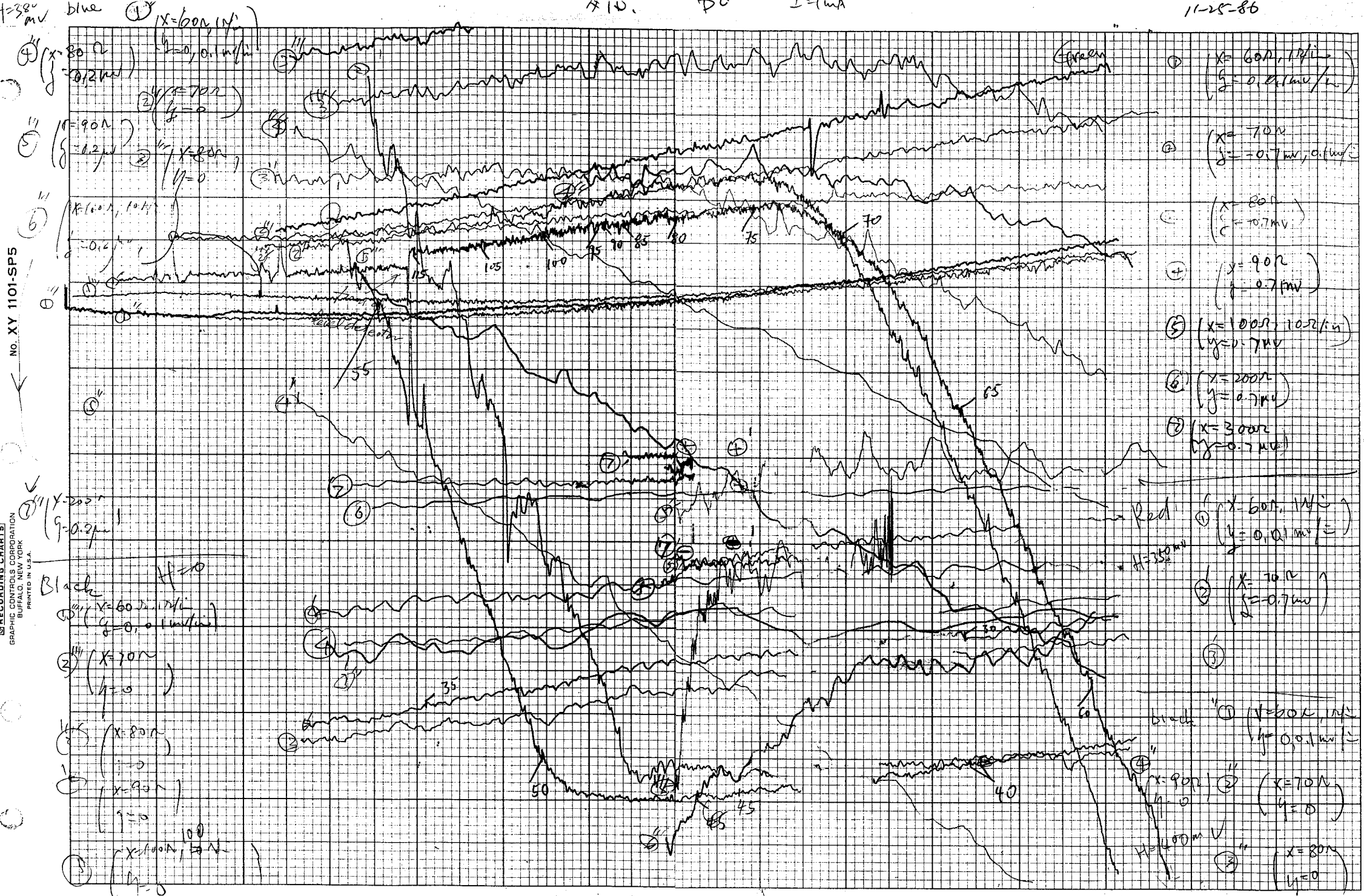
H=380 mV blue

X10. D0 I=1mA

11-25-86

No. XY 1101-SP5

RECORDING CHARTS
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
PRINTED IN U.S.A.



① $(X=600, Y=0.1)$
 ② $(X=700, Y=0)$
 ③ $(X=800, Y=0)$
 ④ $(X=900, Y=0)$
 ⑤ $(X=1000, Y=0)$
 ⑥ $(X=1000, Y=0)$
 ⑦ $(X=2000, Y=0.2)$

Black
 H=0
 ① $(X=600, Y=0.1)$
 ② $(X=700, Y=0)$
 ③ $(X=800, Y=0)$
 ④ $(X=900, Y=0)$
 ⑤ $(X=1000, Y=0)$

① $(X=600, Y=0.1)$
 ② $(X=700, Y=0)$
 ③ $(X=800, Y=0)$
 ④ $(X=900, Y=0)$
 ⑤ $(X=1000, Y=0.2)$
 ⑥ $(X=2000, Y=0.7)$
 ⑦ $(X=3000, Y=0.7)$

Red
 H=350 mV
 ① $(X=600, Y=0.1)$
 ② $(X=700, Y=0)$
 ③ $(X=800, Y=0)$

blue
 H=400 mV
 ① $(X=900, Y=0)$
 ② $(X=700, Y=0)$
 ③ $(X=800, Y=0)$

H 1116

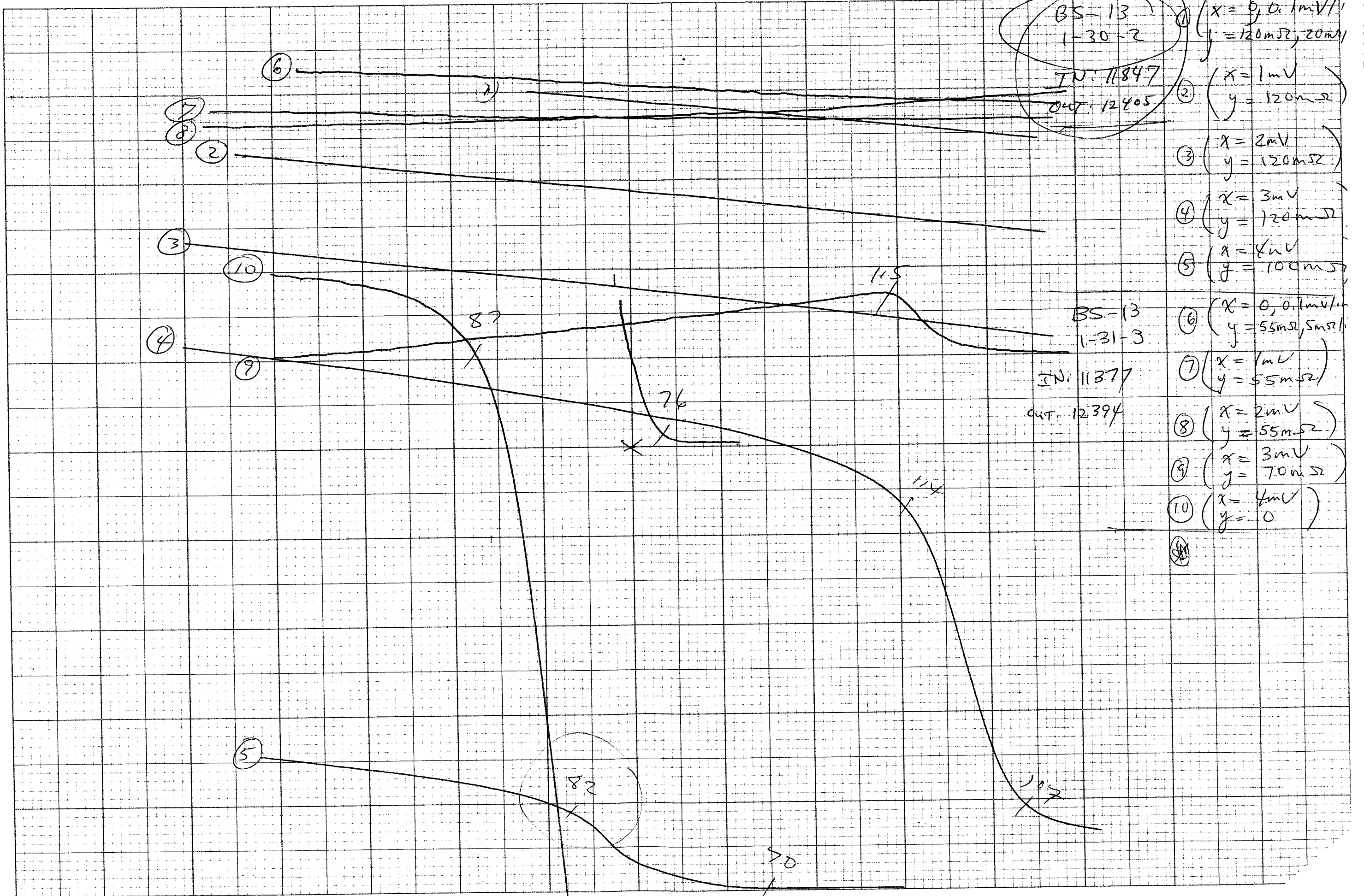
RLM0595

Au-Fe T.C.

LR-400

BS-13
 1-30-2
 TN: 11847
 OUT: 12405

- ① $x = 0, 0.1 \text{ mV}$
 $y = 120 \text{ m}\Omega, 20 \text{ m}\Omega$
- ② $x = 1 \text{ mV}$
 $y = 120 \text{ m}\Omega$
- ③ $x = 2 \text{ mV}$
 $y = 120 \text{ m}\Omega$
- ④ $x = 3 \text{ mV}$
 $y = 120 \text{ m}\Omega$
- ⑤ $x = 4 \text{ mV}$
 $y = 100 \text{ m}\Omega$
- ⑥ BS-13
1-31-3
 $x = 0, 0.1 \text{ mV}$
 $y = 55 \text{ m}\Omega, 5 \text{ m}\Omega$
- ⑦ IN: 11377
OUT: 12394
 $x = 1 \text{ mV}$
 $y = 55 \text{ m}\Omega$
- ⑧ $x = 2 \text{ mV}$
 $y = 55 \text{ m}\Omega$
- ⑨ $x = 3 \text{ mV}$
 $y = 70 \text{ m}\Omega$
- ⑩ $x = 4 \text{ mV}$
 $y = 0$



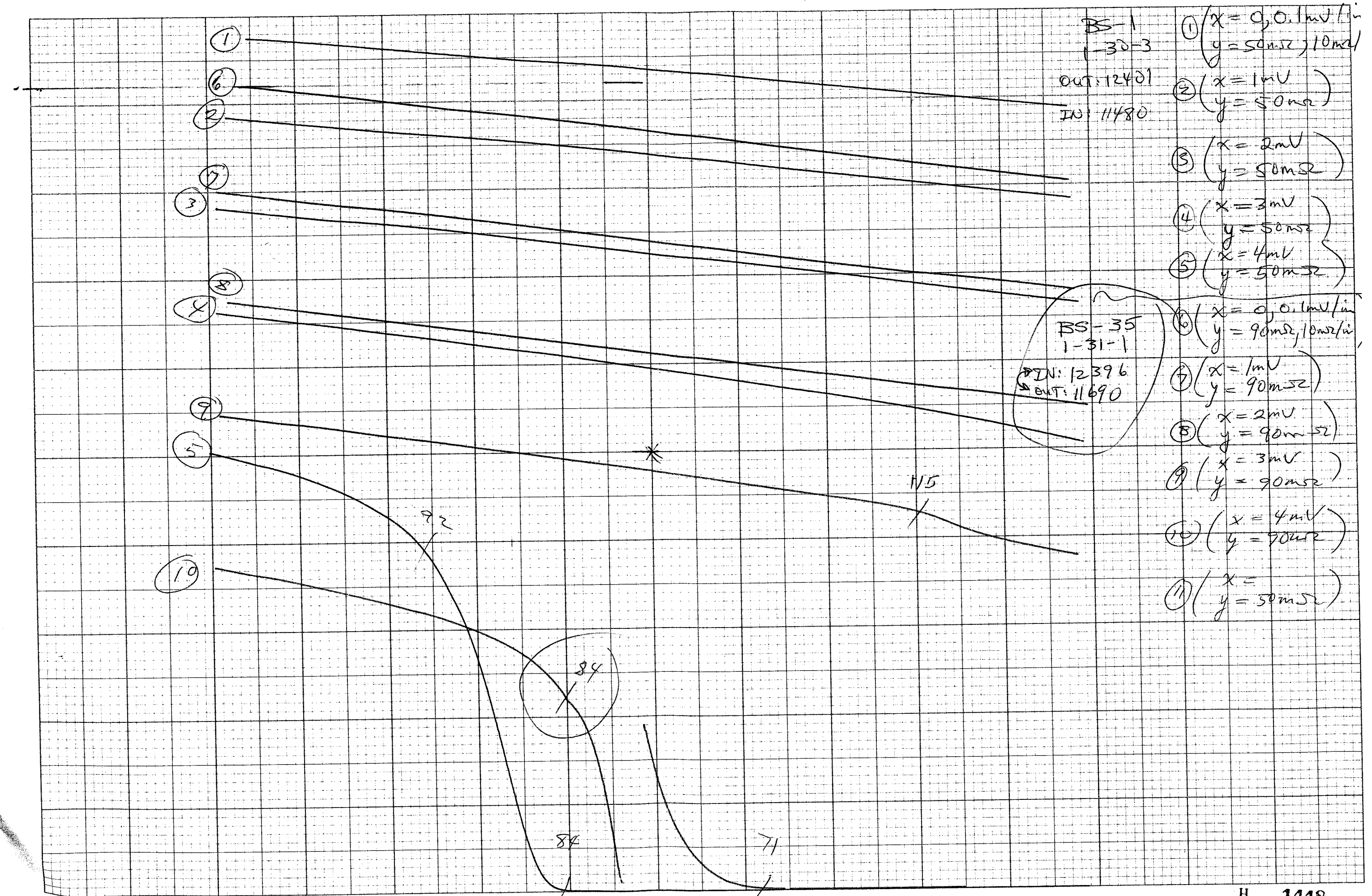
NO. XY 1101-SP5

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RLM0596

NO. XY 1101-SP5

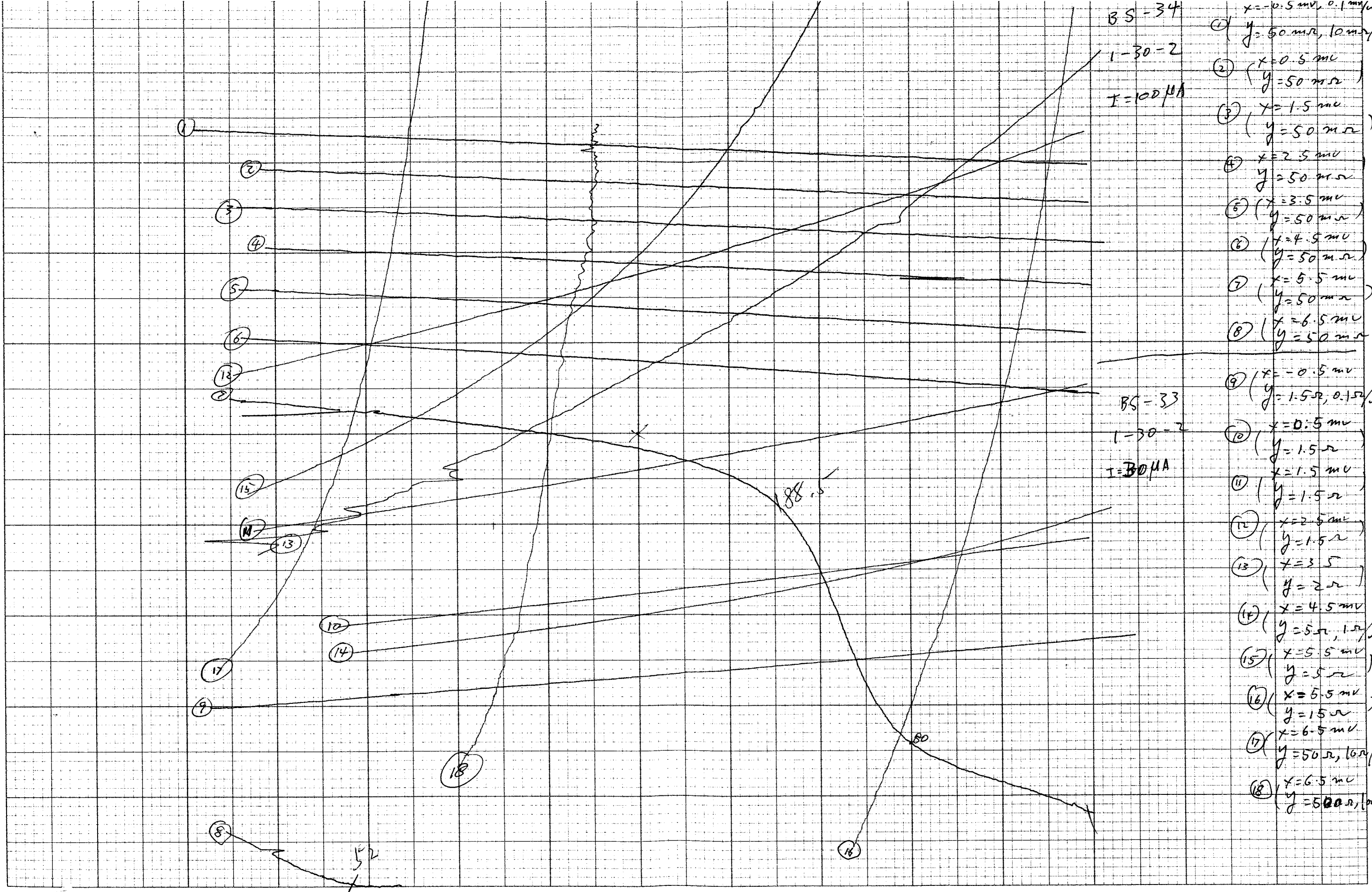
RECORDING CHARTS
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BS-1
30-3
OUT: 12401
IN: 11480

BS-35
1-31-1
IN: 12396
OUT: 11690

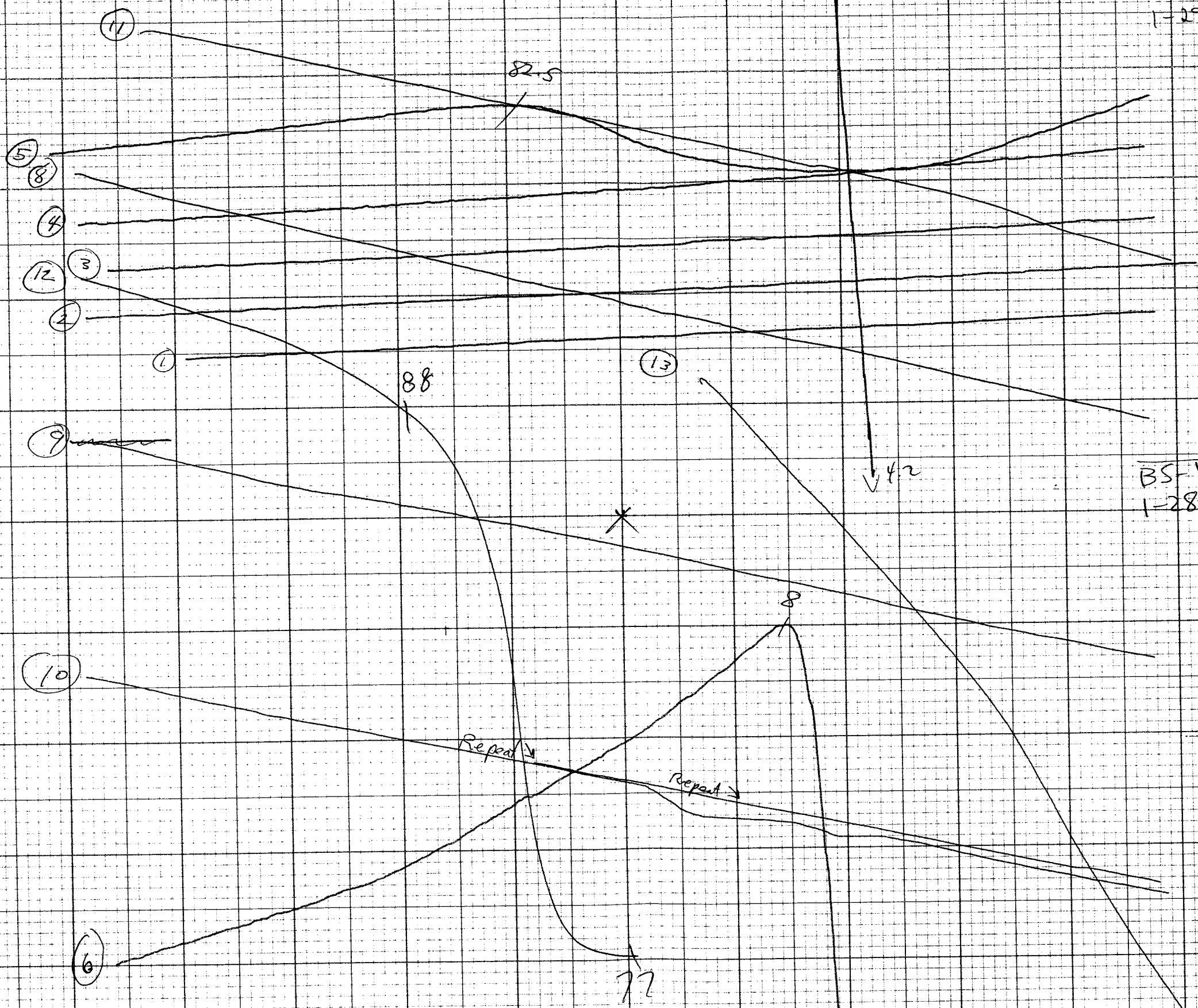
- ① (x = 0, 0.1mV/in
y = 50mΩ, 10mΩ)
- ② (x = 1mV
y = 50mΩ)
- ③ (x = 2mV
y = 50mΩ)
- ④ (x = 3mV
y = 50mΩ)
- ⑤ (x = 4mV
y = 50mΩ)
- ⑥ (x = 0, 0.1mV/in
y = 90mΩ, 10mΩ/in)
- ⑦ (x = 1mV
y = 90mΩ)
- ⑧ (x = 2mV
y = 90mΩ)
- ⑨ (x = 3mV
y = 90mΩ)
- ⑩ (x = 4mV
y = 90mΩ)
- ⑪ (x =
y = 50mΩ)



BS-34
I=100 μA

BS-33
I=30 μA

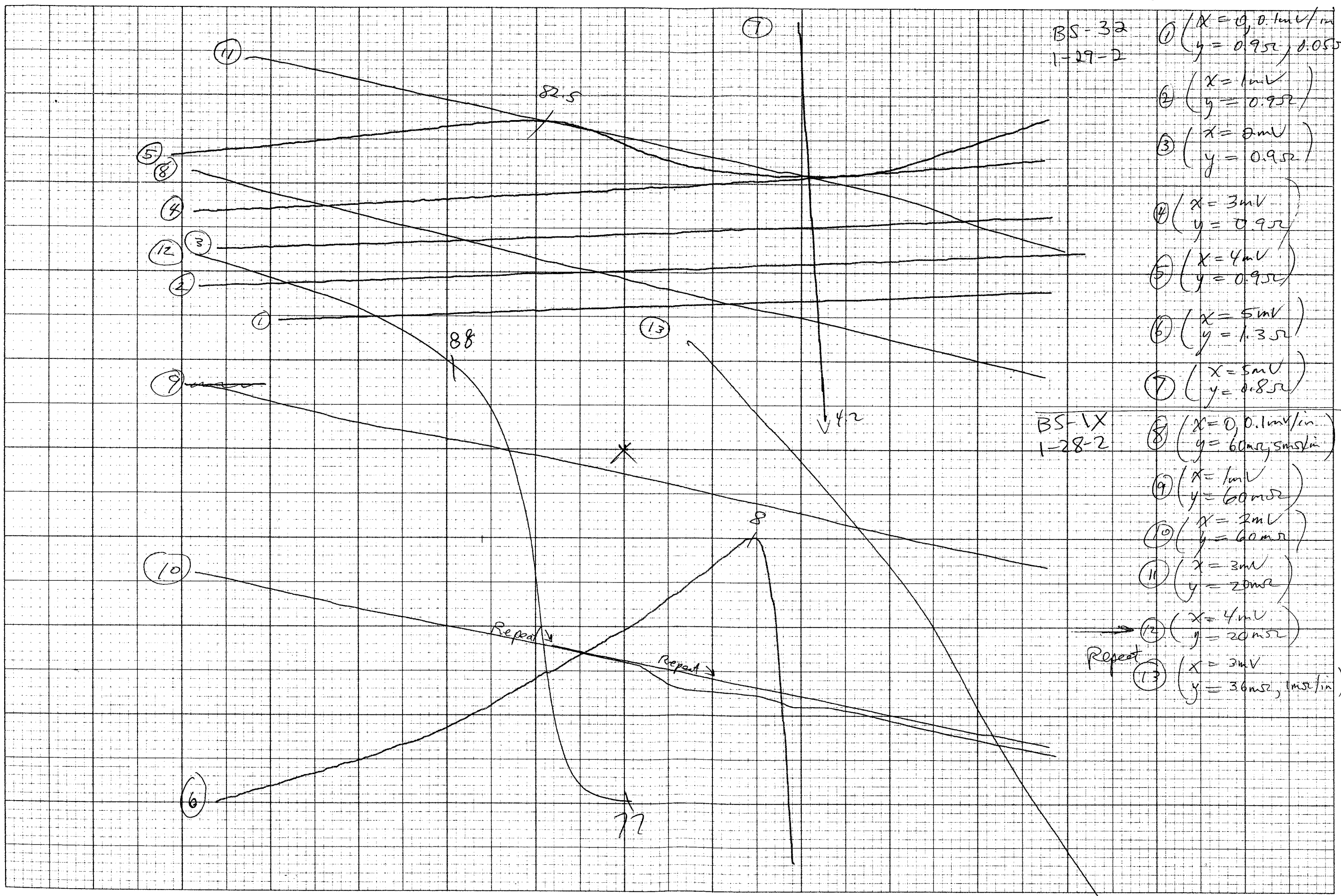
- (1) $x = -0.5 \text{ mv}, 0.1 \text{ mv}/i$
 $y = 50 \text{ m}\Omega, 10 \text{ m}\Omega/i$
- (2) $x = 0.5 \text{ mv}$
 $y = 50 \text{ m}\Omega$
- (3) $x = 1.5 \text{ mv}$
 $y = 50 \text{ m}\Omega$
- (4) $x = 2.5 \text{ mv}$
 $y = 50 \text{ m}\Omega$
- (5) $x = 3.5 \text{ mv}$
 $y = 50 \text{ m}\Omega$
- (6) $x = 4.5 \text{ mv}$
 $y = 50 \text{ m}\Omega$
- (7) $x = 5.5 \text{ mv}$
 $y = 50 \text{ m}\Omega$
- (8) $x = 6.5 \text{ mv}$
 $y = 50 \text{ m}\Omega$
- (9) $x = -0.5 \text{ mv}$
 $y = 1.5 \Omega, 0.15 \Omega/i$
- (10) $x = 0.5 \text{ mv}$
 $y = 1.5 \Omega$
- (11) $x = 1.5 \text{ mv}$
 $y = 1.5 \Omega$
- (12) $x = 2.5 \text{ mv}$
 $y = 1.5 \Omega$
- (13) $x = 3.5$
 $y = 2 \Omega$
- (14) $x = 4.5 \text{ mv}$
 $y = 5 \Omega, 1 \Omega/i$
- (15) $x = 5.5 \text{ mv}$
 $y = 5 \Omega$
- (16) $x = 5.5 \text{ mv}$
 $y = 15 \Omega$
- (17) $x = 6.5 \text{ mv}$
 $y = 50 \Omega, 10 \Omega/i$
- (18) $x = 6.5 \text{ mv}$
 $y = 500 \Omega, 100 \Omega/i$



- BS-IX
1-27-2
- ① $(y = 0.95\Omega, 0.05\Omega)$
 - ② $(x = 1mV, y = 0.95\Omega)$
 - ③ $(x = 2mV, y = 0.95\Omega)$
 - ④ $(x = 3mV, y = 0.95\Omega)$
 - ⑤ $(x = 4mV, y = 0.95\Omega)$
 - ⑥ $(x = 5mV, y = 1.35\Omega)$
 - ⑦ $(x = 5mV, y = 0.85\Omega)$
 - ⑧ $(x = 0, 0.1mV/in, y = 60m\Omega, 5m\Omega/in)$
 - ⑨ $(x = 1mV, y = 60m\Omega)$
 - ⑩ $(x = 2mV, y = 60m\Omega)$
 - ⑪ $(x = 3mV, y = 20m\Omega)$
 - ⑫ $(x = 4mV, y = 20m\Omega)$
 - ⑬ $(x = 3mV, y = 36m\Omega, 1m\Omega/in)$
- BS-IX
1-28-2

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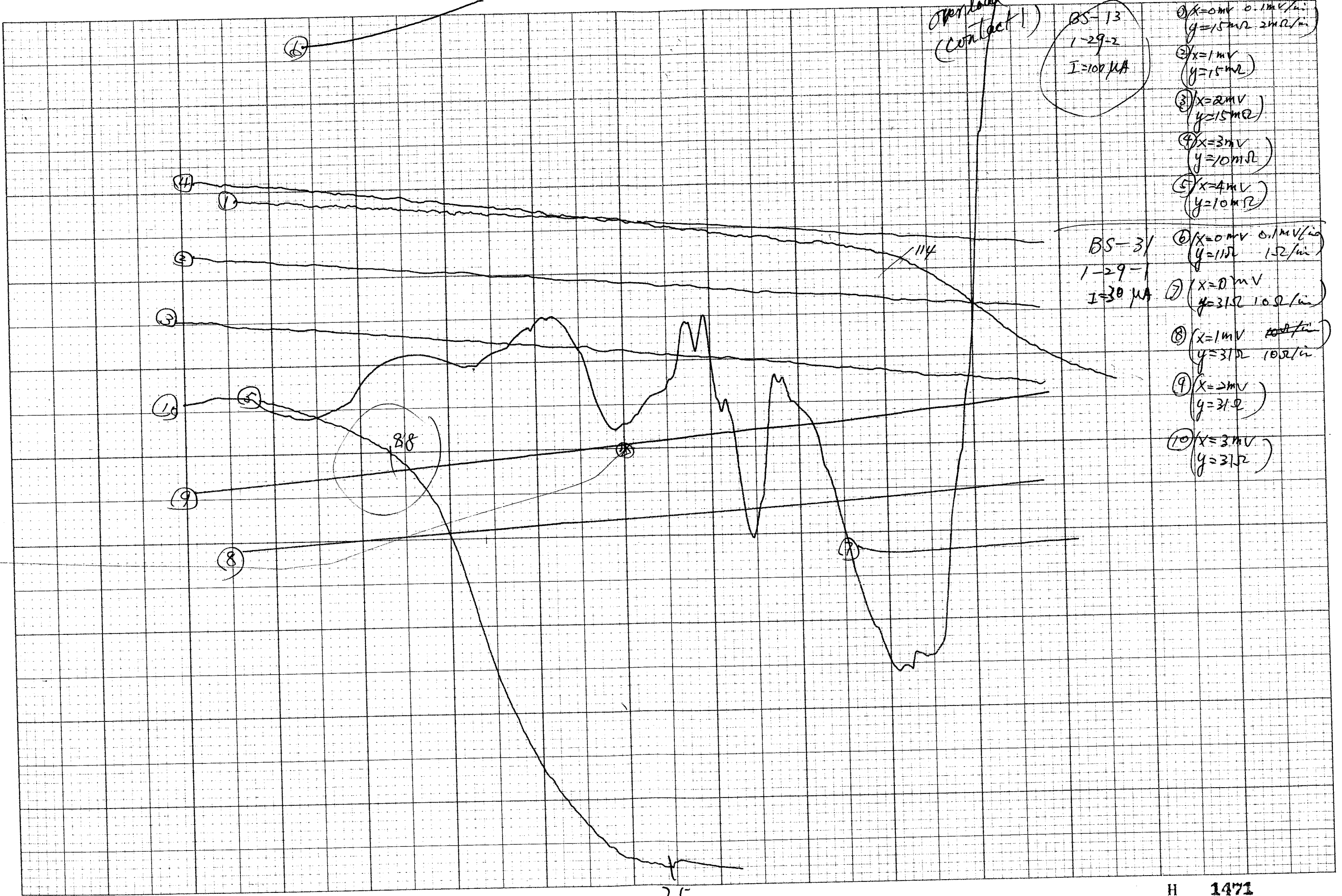
BS-32
1-29-2

- ① (X = 0, 0.1mV/in
y = 0.95Ω, 0.05Ω/in)
- ② (X = 1mV
y = 0.95Ω)
- ③ (X = 2mV
y = 0.95Ω)
- ④ (X = 3mV
y = 0.95Ω)
- ⑤ (X = 4mV
y = 0.95Ω)
- ⑥ (X = 5mV
y = 1.3Ω)
- ⑦ (X = 5mV
y = 0.85Ω)

BS-1X
1-28-2

- ⑧ (X = 0, 0.1mV/in
y = 60mΩ, 5mΩ/in)
- ⑨ (X = 1mV
y = 60mΩ)
- ⑩ (X = 2mV
y = 60mΩ)
- ⑪ (X = 3mV
y = 20mΩ)
- ⑫ (X = 4mV
y = 20mΩ)
- ⑬ (X = 3mV
y = 36mΩ, 1mΩ/in)

Repeat →



- ① x=0mv 0.1mv/in
y=15mΩ 2mΩ/in
- ② x=1mv
y=15mΩ
- ③ x=2mv
y=15mΩ
- ④ x=3mv
y=10mΩ
- ⑤ x=4mv
y=10mΩ
- ⑥ x=0mv 0.1mv/in
y=15Ω 1.5Ω/in
- ⑦ x=0mv
y=31Ω 10Ω/in
- ⑧ x=1mv
y=31Ω 10Ω/in
- ⑨ x=2mv
y=31Ω
- ⑩ x=3mv
y=31Ω

75

1-29-88

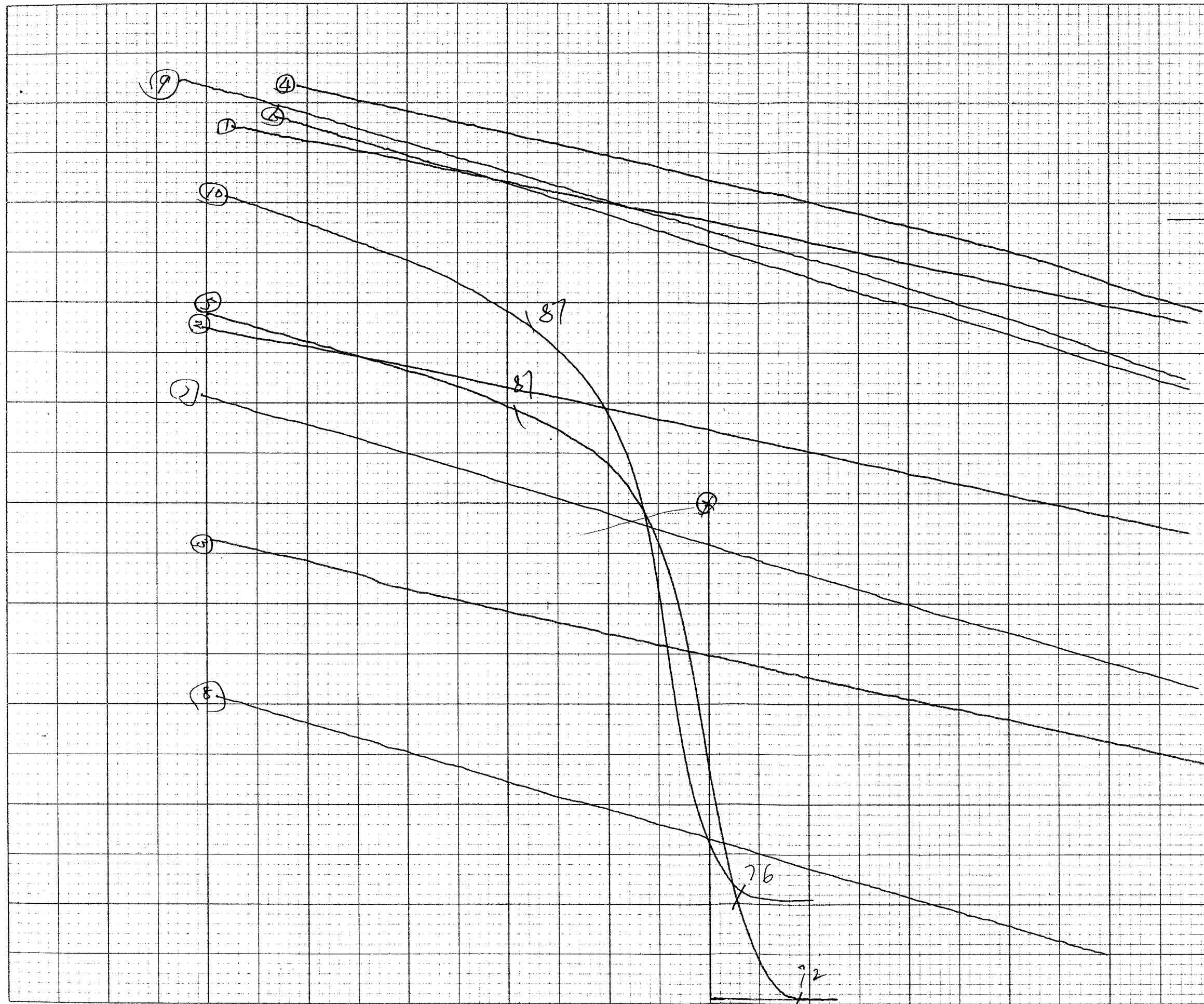
RLM0602

BS-1
1-29-2
I=100 μ A

- ① X=0mV 0.1mV/in
Y=60m Ω 5m Ω /in
- ② X=1mV
Y=60m Ω
- ③ X=2mV
Y=60m Ω
- ④ X=3mV
Y=25m Ω
- ⑤ X=4mV
Y=25m Ω

BS-13
1-29-3

- ⑥ X=0mV 0.1mV/in
Y=75m Ω 5m Ω /in
- ⑦ X=1mV
Y=75m Ω
- ⑧ X=2mV
Y=75m Ω
- ⑨ X=3mV
Y=30m Ω
- ⑩ X=4mV
Y=20m Ω

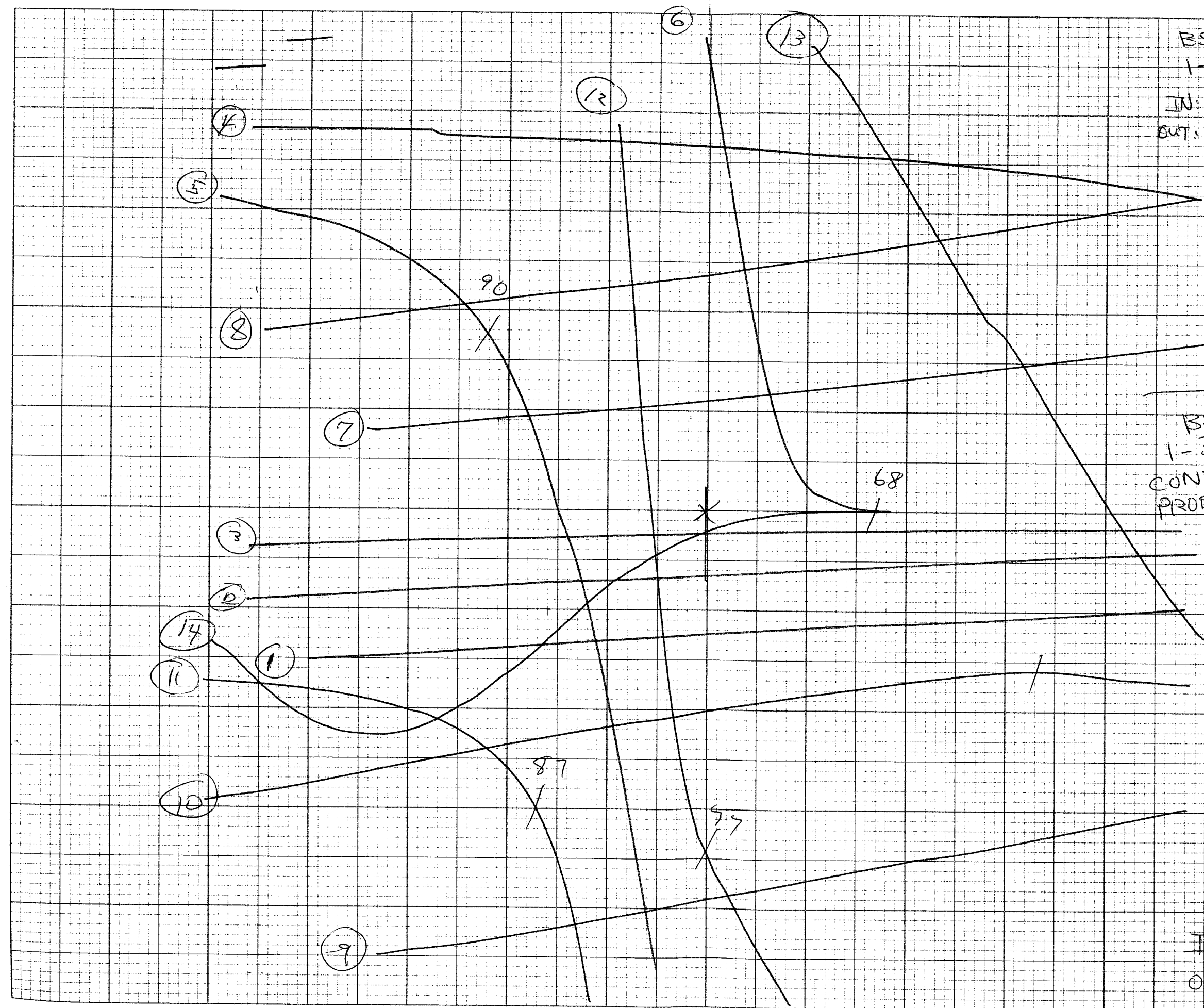


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No. XY 1101-SP5

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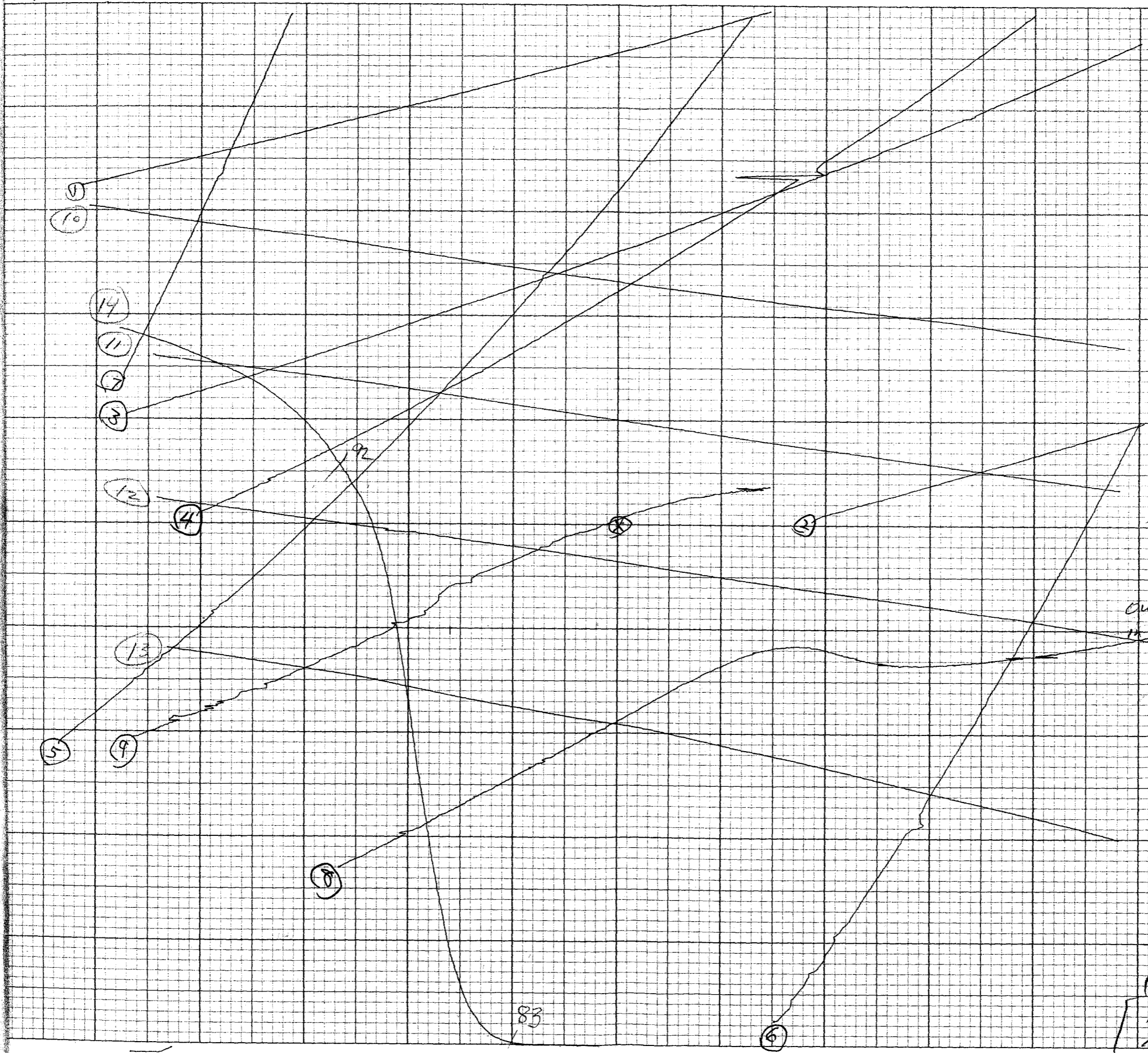
BS-35
1-30-2
IN: 12398
OUT: 11677

- ① (x = 0, 0.1mV
y = 800mΩ, 50m)
- ② (x = 1mV
y = 800mΩ)
- ③ (x = 2mV
y = 800mΩ)
- ④ (x = 3mV
y = 600mΩ)
- ⑤ (x = 4mV
y = 600mΩ)
- ⑥ (x = 4mV
y = 0)

BS-1
1-30-2
CONTACT
PROBLEM

- ⑦ (x = 0, 0.1mV
y = 45mΩ, 50)
- ⑧ (x = 1mV
y = 45mΩ)
- ⑨ (x = 2mV
y = 105mΩ)
- ⑩ (x = 3mV
y = 105mΩ)
- ⑪ (x = 1mV
y = 105mΩ)
- ⑫ (x = 4mV
y = 50mΩ)
- ⑬ (x = 4mV
y = 0)
- ⑭ (x = 5mV
y = 0)

IN: 12020
OUT: 12387



- BS-12
1-23-5
 $I = 100 \mu A$
- ① $x = 0 \text{ mV}$ 0.1 mV/in
 $y = 900 \text{ m}\Omega$ $20 \text{ m}\Omega/\text{in}$
 - ② $x = 0 \text{ mV}$
 $y = 1000 \text{ m}\Omega$
 - ③ $x = 1 \text{ mV}$
 $y = 1000 \text{ m}\Omega$
 - ④ $x = 2 \text{ mV}$
 $y = 1000 \text{ m}\Omega$
 - ⑤ $x = 3 \text{ mV}$
 $y = 1250 \text{ m}\Omega$
 - ⑥ $x = 3 \text{ mV}$
 $y = 1450 \text{ m}\Omega$
 - ⑦ $x = 4 \text{ mV}$
 $y = 1450 \text{ m}\Omega$
 - ⑧ $x = 4 \text{ mV}$
 $y = 1.9 \Omega$ $100 \text{ m}\Omega/\text{in}$
 - ⑨ $x = 5 \text{ mV}$
 $y = 1.9 \Omega$ $50 \text{ m}\Omega/\text{in}$

- BS-1
1-23-6
out: 1237.5
in: 11866
- ⑩ $x = 0$ 0.1 mV/in
 $y = 200 \text{ m}\Omega$ $20 \text{ m}\Omega/\text{in}$
 - ⑪ $x = 1 \text{ mV}$
 $y = 200 \text{ m}\Omega$
 - ⑫ $x = 2 \text{ mV}$
 $y = 200 \text{ m}\Omega$
 - ⑬ $x = 3 \text{ mV}$
 $y = 200 \text{ m}\Omega$
 - ⑭ $x = 4 \text{ mV}$
 $y = 100 \text{ m}\Omega$

Use small
 I
HP
High field

dc.

BS 11242

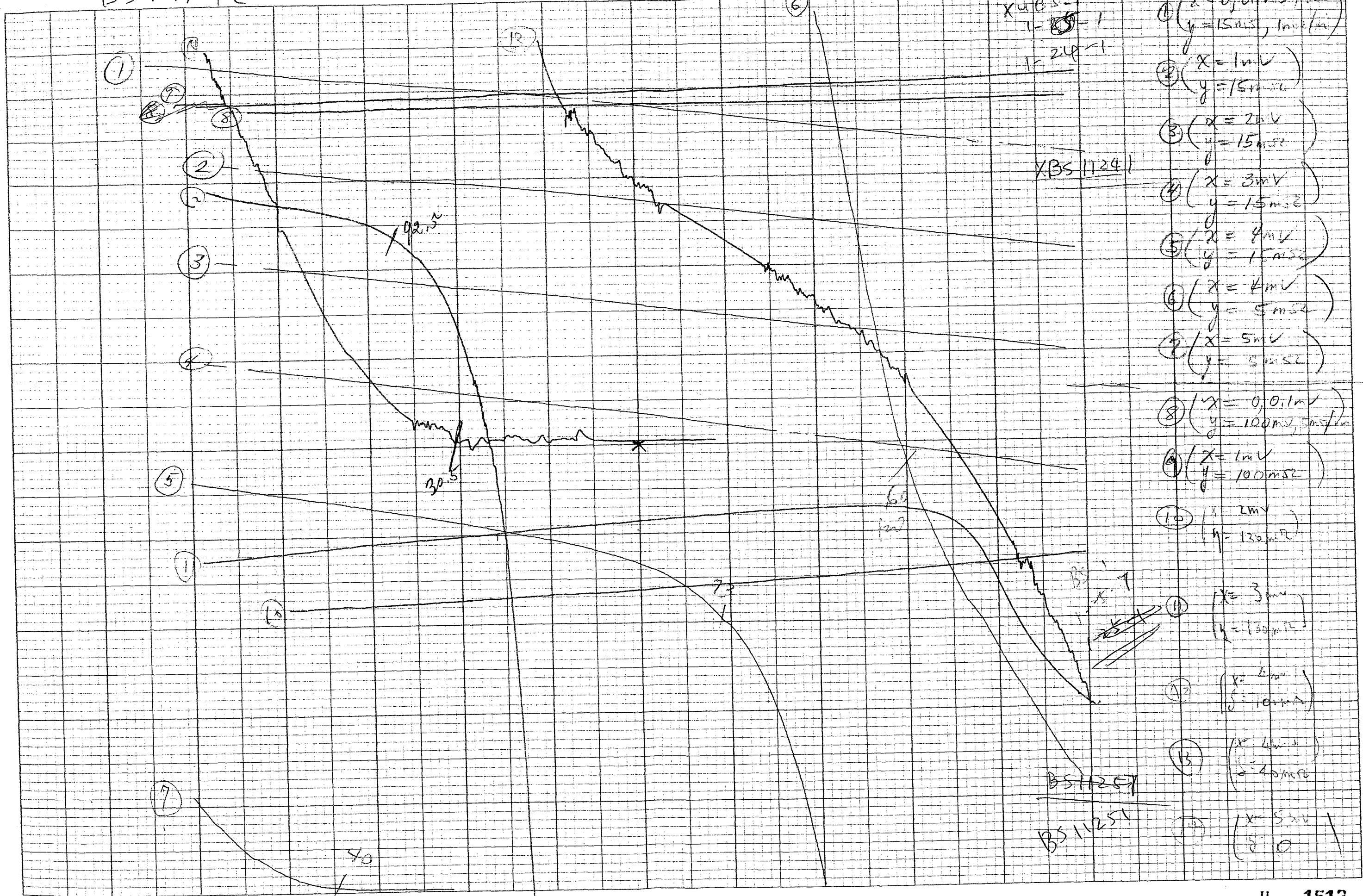
XuBS-
1-24-1
1-24-1

- ① (x=0, 0.1mv / y=15ms)
- ② (x=1mv / y=15ms)
- ③ (x=2mv / y=15ms)
- ④ (x=3mv / y=15ms)
- ⑤ (x=4mv / y=15ms)
- ⑥ (x=4mv / y=5ms)
- ⑦ (x=5mv / y=5ms)
- ⑧ (x=0, 0.1mv / y=100ms)
- ⑨ (x=1mv / y=100ms)
- ⑩ (x=2mv / y=130ms)
- ⑪ (x=3mv / y=130ms)
- ⑫ (x=4mv / y=100ms)
- ⑬ (x=4mv / y=20ms)
- ⑭ (x=5mv / y=0)

XBS 11241

BS 11251

BS 11251



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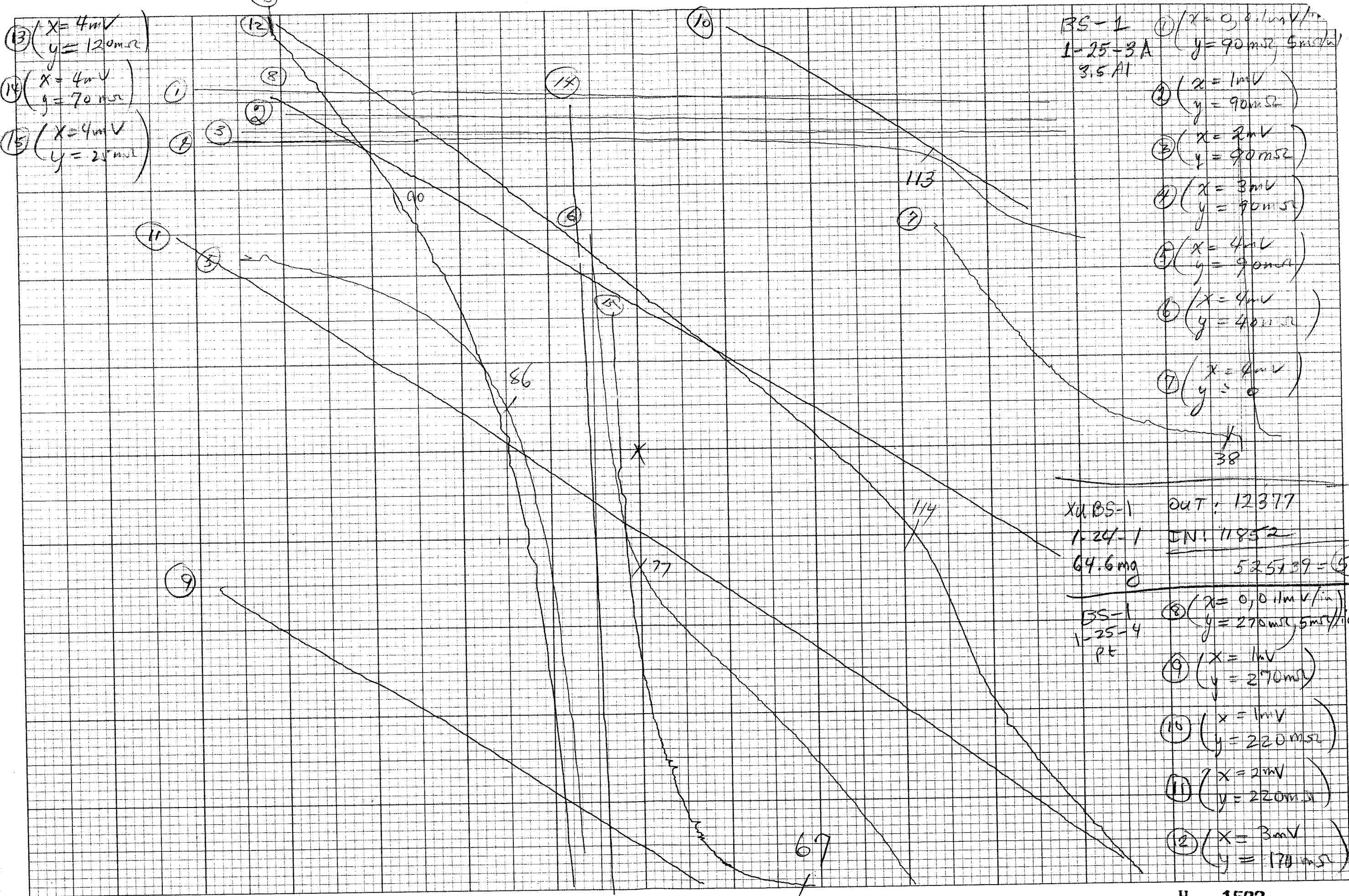
RLM0605

- ⑬ (X = 4mV, y = 120ms)
- ⑭ (X = 4mV, y = 70ms)
- ⑮ (X = 4mV, y = 25ms)

- BS-1
1-25-3A
3.5 A1
- ① (X = 0, y = 90ms)
 - ② (X = 1mV, y = 90ms)
 - ③ (X = 2mV, y = 90ms)
 - ④ (X = 3mV, y = 90ms)
 - ⑤ (X = 4mV, y = 90ms)
 - ⑥ (X = 4mV, y = 40ms)
 - ⑦ (X = 4mV, y = 0)
- 38

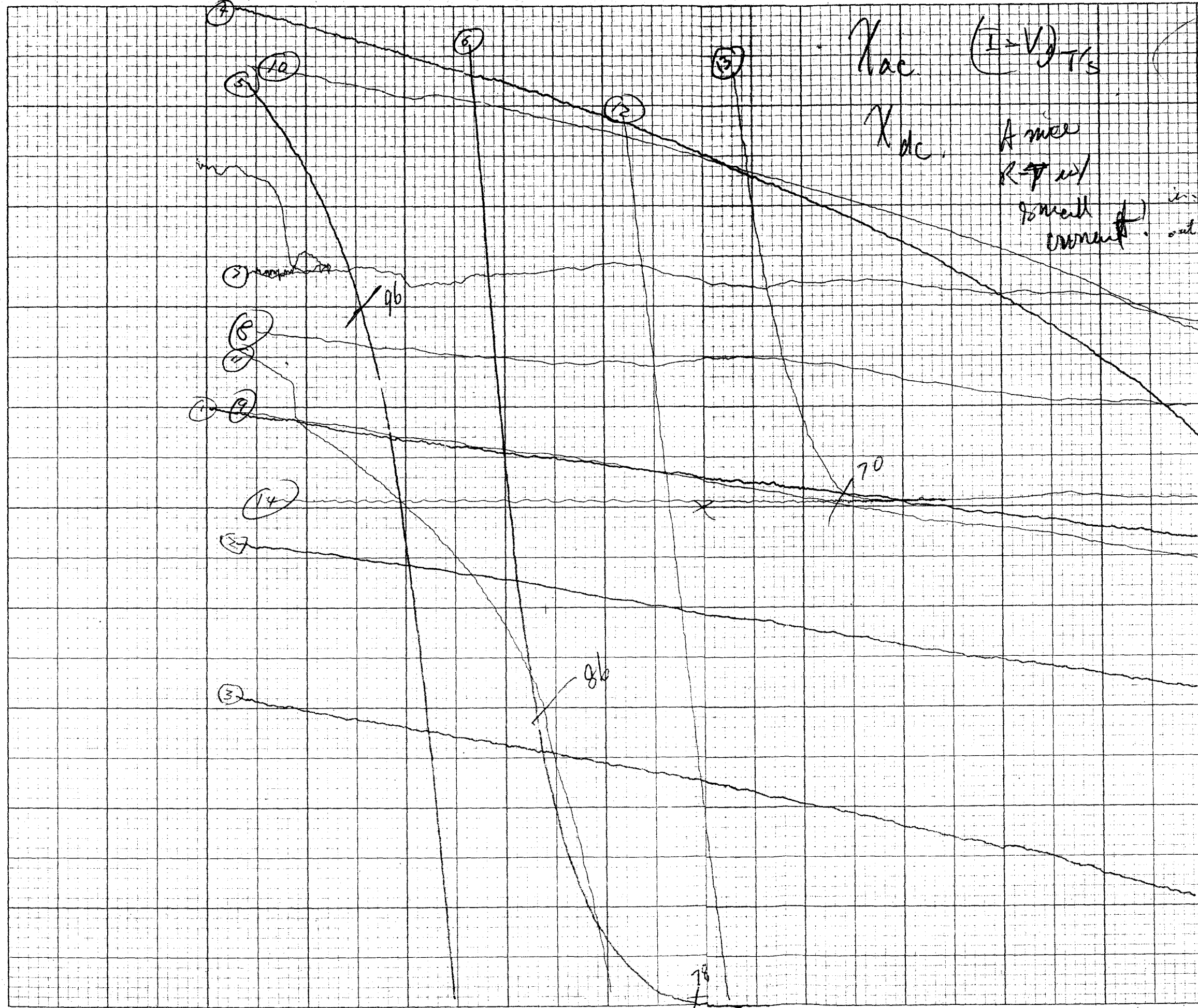
XU BS-1 OUT: 12377
1-24-1 IN: 11852
64.6mg 525789 = 564

- BS-1
1-25-4
PE
- ⑧ (X = 0, y = 270ms)
 - ⑨ (X = 1mV, y = 270ms)
 - ⑩ (X = 1mV, y = 220ms)
 - ⑪ (X = 2mV, y = 220ms)
 - ⑫ (X = 3mV, y = 170ms)



Three Sayle at the

First paper



X_{ac} $(I=V) T/S$

X_{dc}

A meter

R=70 ohm

some with current

BS-1
12-23-3

I=30 μ A

in: 12110 μ V

out: 12360 μ V

(1) $x=0, 0.1 \text{ mV}$
 $y=300 \text{ mV}, 10 \text{ mV}$

(2) $x=1 \text{ mV}$
 $y=300 \text{ mV}$

(3) $x=2 \text{ mV}$
 $y=300 \text{ mV}$

(4) $x=3 \text{ mV}$
 $y=200 \text{ mV}$

(5) $x=4 \text{ mV}$
 $y=170 \text{ mV}$

(6) $x=4 \text{ mV}$
 $y=50 \text{ mV}$

BS-1

12-23-4

I=30 μ A

in: 12361 μ V

out: 12068 μ V

(7) $x=0, 0.1 \text{ mV}$
 $y=500 \text{ mV}, 20 \text{ mV}$

(8) $x=1 \text{ mV}$
 $y=500 \text{ mV}$

(9) $x=2 \text{ mV}$
 $y=500 \text{ mV}$

(10) $x=3 \text{ mV}$
 $y=400 \text{ mV}$

(11) $x=4 \text{ mV}$
 $y=400 \text{ mV}$

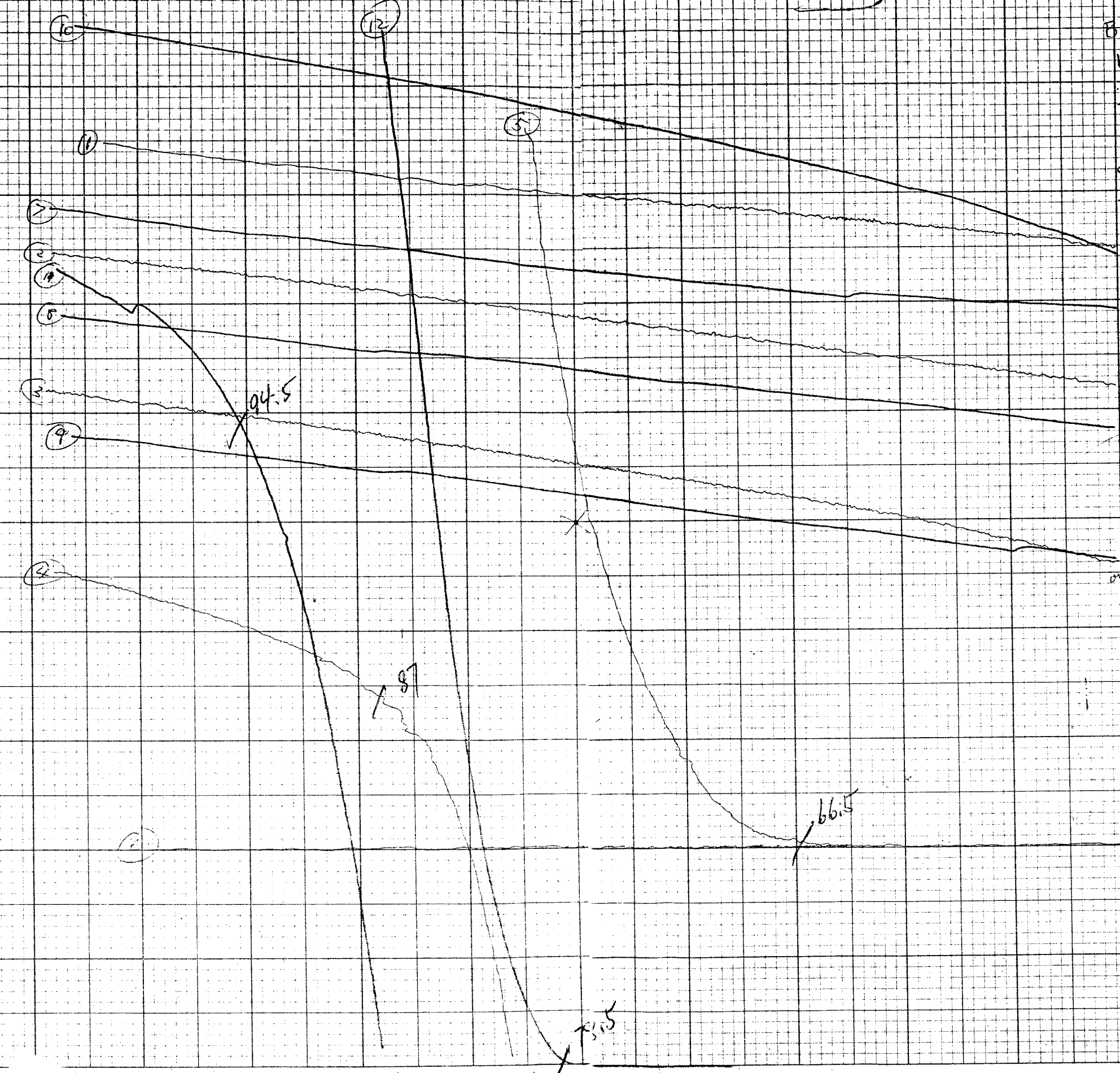
(12) $x=4 \text{ mV}$
 $y=200 \text{ mV}$

(13) $x=4 \text{ mV}$
 $y=0$

(14) $x=5 \text{ mV}$
 $y=0$

7

BS-1 1-23-58 (1)
BS-1 1-23-1



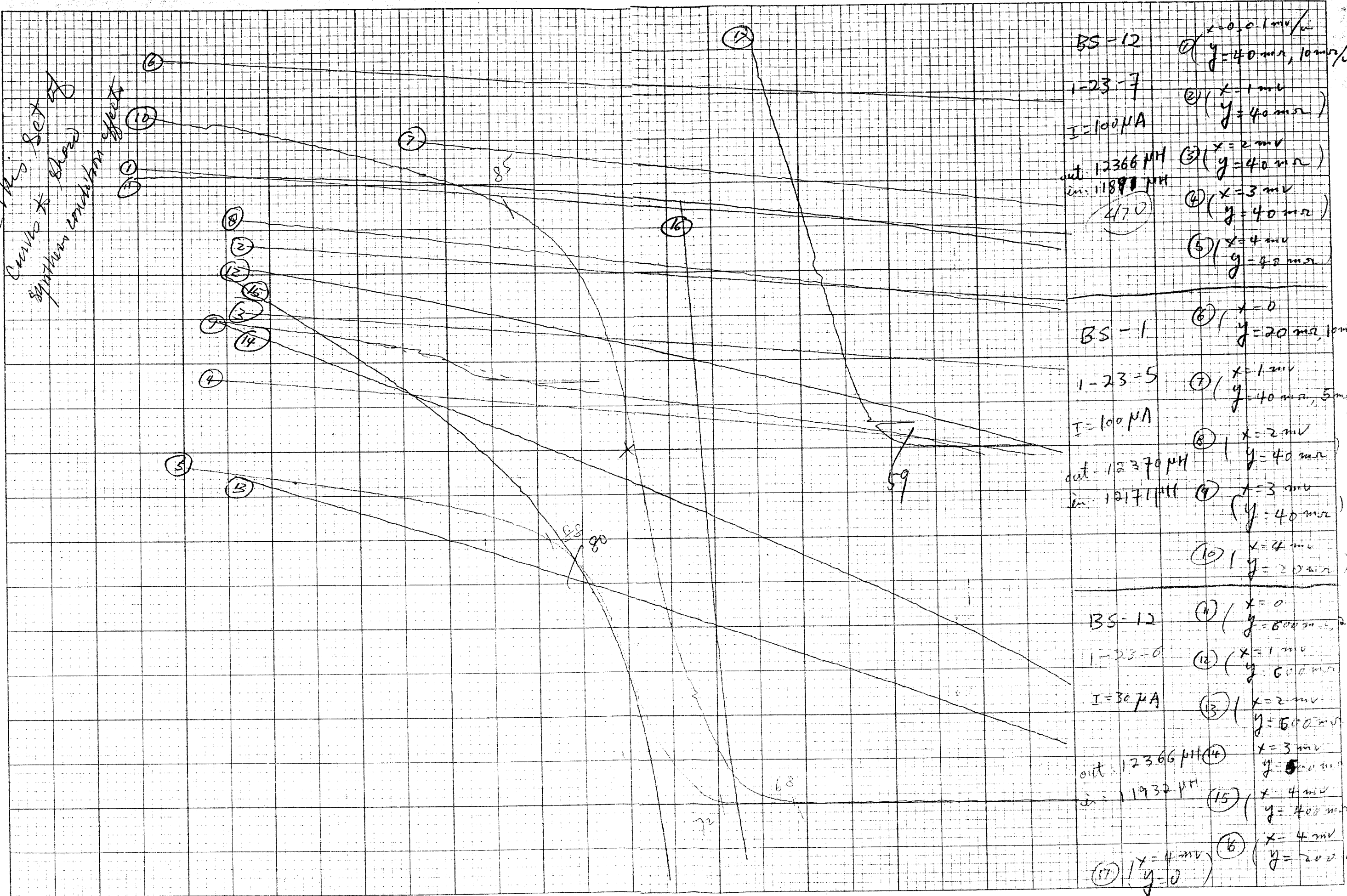
BS-1
1-23-1
I=30 mA
M=11 mg
out: 12351 μ V
in: 12242 μ V

BS-1
-33
15 mg
out: 12330 μ V
in: 11810 μ V

(1) $x=1 \text{ mv}, y=130 \text{ mv}$
(2) $x=2 \text{ mv}, y=130 \text{ mv}$
(3) $x=3 \text{ mv}, y=130 \text{ mv}$
(4) $x=4 \text{ mv}, y=130 \text{ mv}$
(5) $x=4 \text{ mv}, y=30 \text{ mv}$
(6) $x=5 \text{ mv}, y=30 \text{ mv}$
(7) $x=0, y=2.5, 0.1 \text{ mv}$
(8) $x=1 \text{ mv}, y=2.5$
(9) $x=2 \text{ mv}, y=2.5$
(10) $x=3 \text{ mv}, y=1.5$
(11) $x=4 \text{ mv}, y=1.5$
(12) $x=4 \text{ mv}, y=1.5$

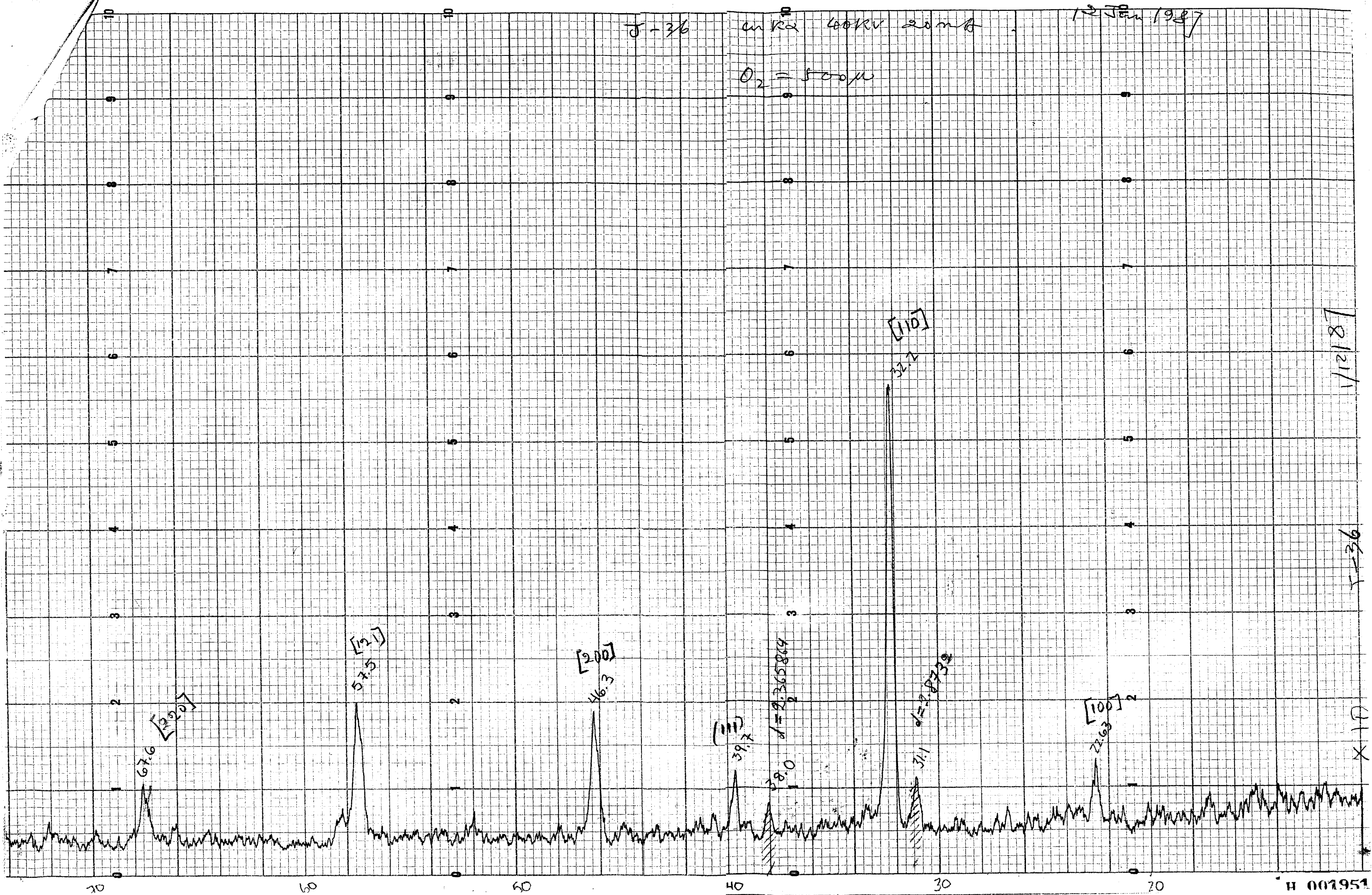
X_{dc}
 X_{dc}
I-V at different TS

Use this set of
curves to show
system variation effect



1-23-88

- BS-12 (1) $x=0.01 \text{ mv}/\mu$
 $y=40 \text{ m}\Omega, 10 \text{ mv}/\mu$
- 1-23-7 (2) $x=1 \text{ mv}$
 $y=40 \text{ m}\Omega$
- $I=100 \mu\text{A}$
- out: 12366 μH (3) $x=2 \text{ mv}$
 $y=40 \text{ m}\Omega$
- in: 11897 μH (4) $x=3 \text{ mv}$
 $y=40 \text{ m}\Omega$
- (5) $x=4 \text{ mv}$
 $y=40 \text{ m}\Omega$
- BS-1 (6) $x=0$
 $y=20 \text{ m}\Omega, 10 \text{ mv}$
- 1-23-5 (7) $x=1 \text{ mv}$
 $y=40 \text{ m}\Omega, 5 \text{ mv}$
- $I=100 \mu\text{A}$
- out: 12379 μH (8) $x=2 \text{ mv}$
 $y=40 \text{ m}\Omega$
- in: 12171 μH (9) $x=3 \text{ mv}$
 $y=40 \text{ m}\Omega$
- (10) $x=4 \text{ mv}$
 $y=20 \text{ m}\Omega$
- BS-12 (11) $x=0$
 $y=600 \text{ m}\Omega, 20$
- 1-23-0 (12) $x=1 \text{ mv}$
 $y=600 \text{ m}\Omega$
- $I=30 \mu\text{A}$ (13) $x=2 \text{ mv}$
 $y=600 \text{ m}\Omega$
- out: 12366 μH (14) $x=3 \text{ mv}$
 $y=600 \text{ m}\Omega$
- in: 11932 μH (15) $x=4 \text{ mv}$
 $y=400 \text{ m}\Omega$
- (16) $x=4 \text{ mv}$
 $y=200 \text{ m}\Omega$
- (17) $x=4 \text{ mv}$
 $y=0$



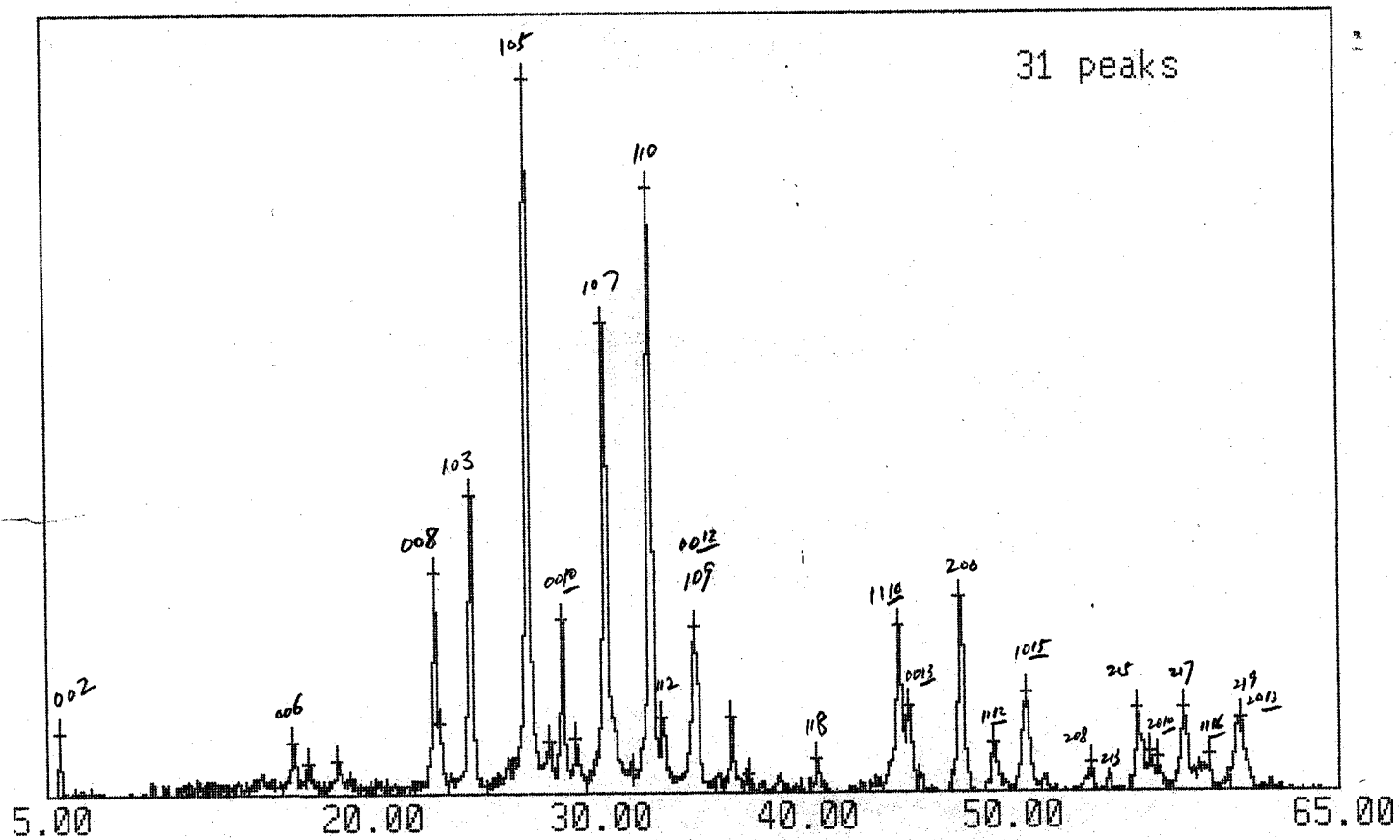
Bi 2122

75-60 K

Sample Name : BS44-311-1

1 K
CPS

31 peaks



L

R

Menu

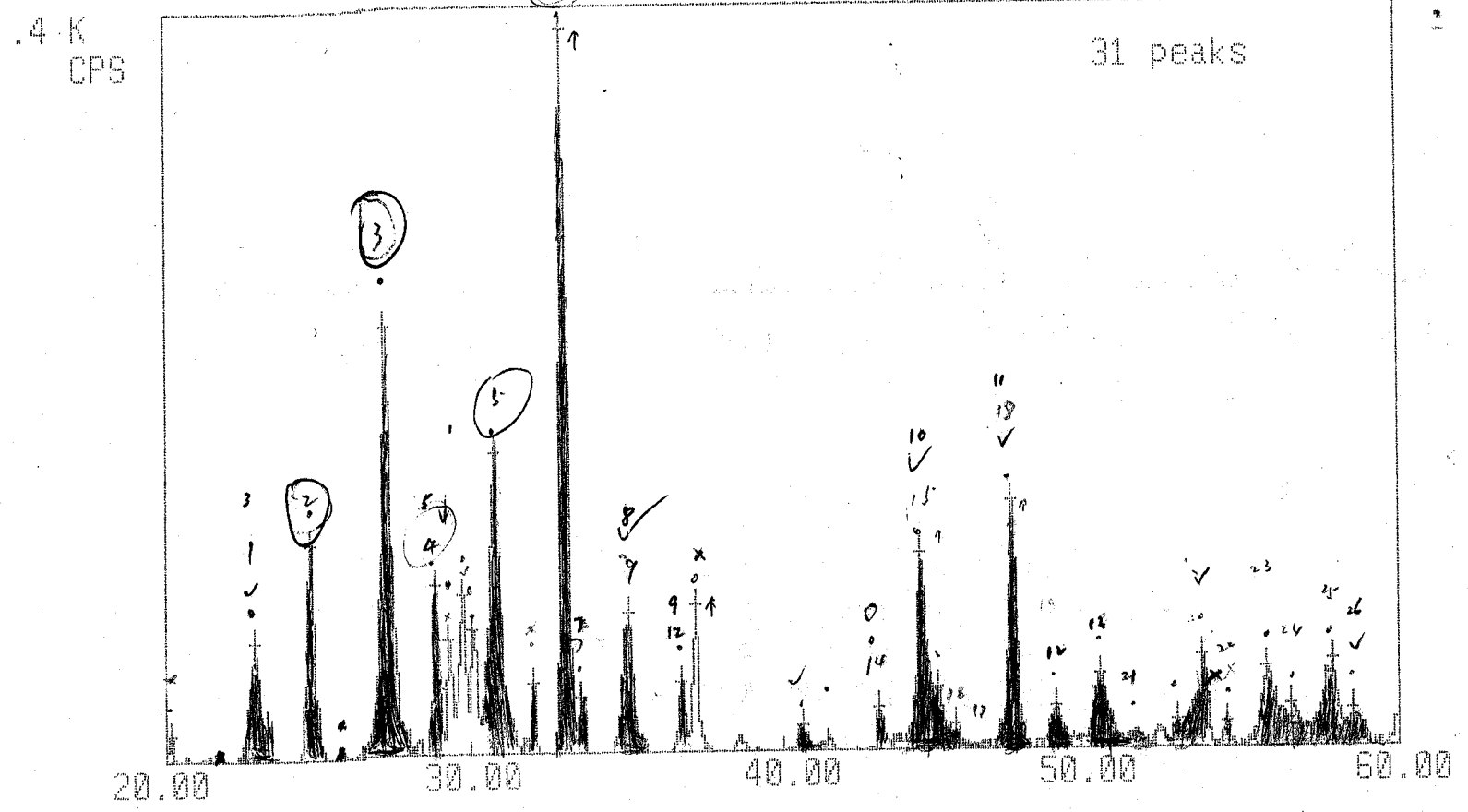
3.087
3.041
2.708

BS-1 01-23-1

o Cu
x CaO
Biz O₂
ZrCaCuO₃

(NoB)

Sample Name : BS-1-01231



RLM0613

Menu.

86-65



3.066
3.051
3.011
1.2704

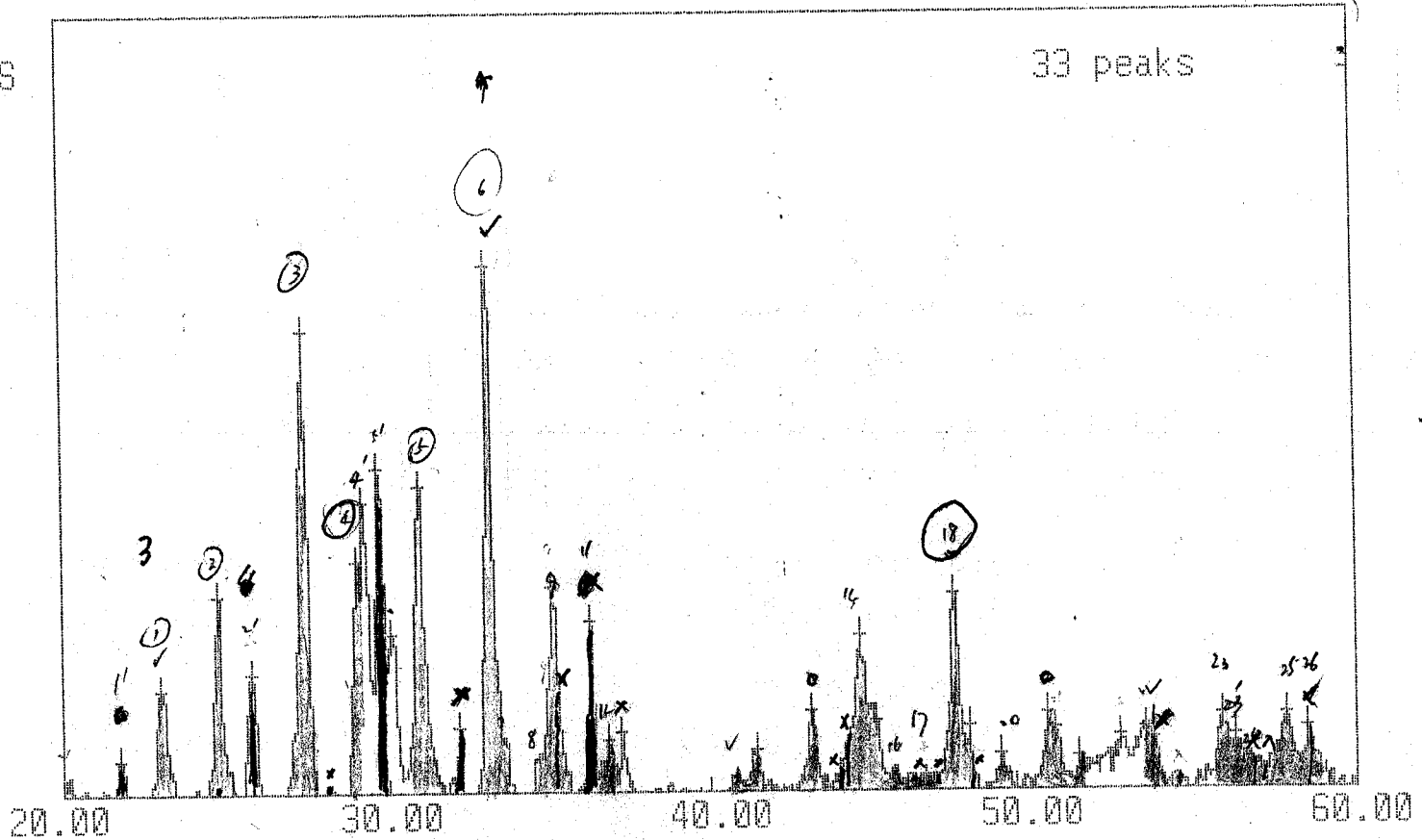
Cu 0
CaO X
CaCO₃ X
SV
Bi₂O₃

BS-1 01-23-2

No02

Sample Name : BS-1-01232

.4 K
CPS



RLM0614

No02 00 0001 0

R

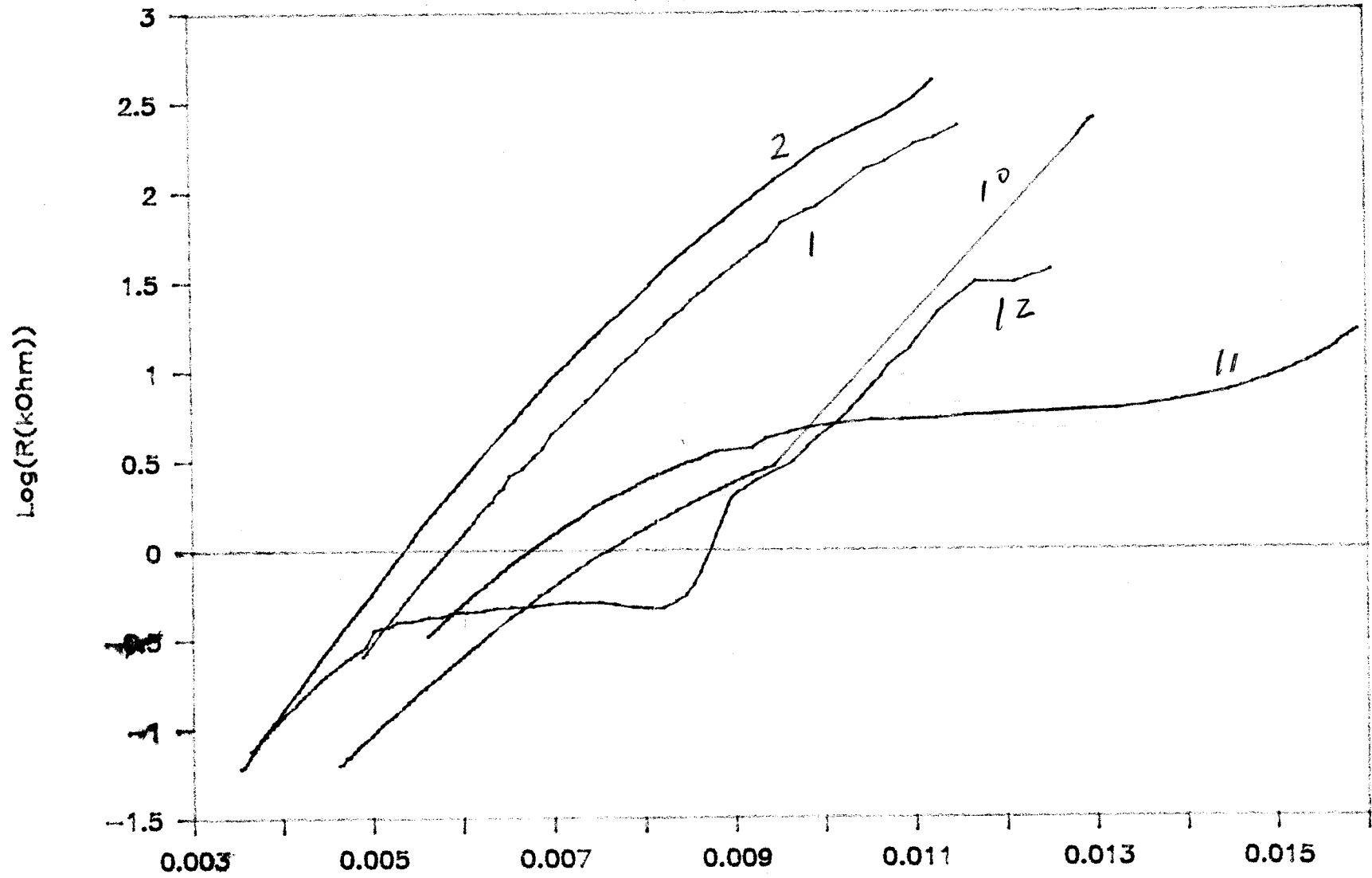
5

Menu

99-78

91

Mg-Ti-O
10/17/1990 TCSUH



MT01
10-17

MT02
10-17

1/T(K)
MT10
10-17

MT11

MT12

PROGRAM CHANGES

o New presentations added

I. Thin Films Session, 9/12/90, Wednesday, Salon A

11:45 - 12:00

A STUDY ON INSITU YBCO THIN FILMS PREPARED UNDER THERMODYNAMIC EQUILIBRIUM CONDITIONS

W. H. Lee, J. Chu, and Y. C. Chen, Materials Research Laboratories, Industrial Technology Research Institute, Taiwan, R.O.C.

II. Monolithics III Session, 9/13/90, Thursday, Highland

11:05 - 11:30

RESISTIVE TRANSITION AND FLUCTUATION CONDUCTIVITY IN RBaCuO (R=Y, Eu, Gd) POLYCRYSTALLINE SUPERCONDUCTORS: EFFECT OF INHOMOGENEITIES

Paulo Purer, Institute de Fisica, UFRGS, Porto Alegre, RS 91500, Brazil

o Microwave Session will start at 8:30 A.M., Thursday, 9/13/90, Whitney, with new schedule for the followings:

8:30 - 9:00

MM AND SUBMM ELECTROMAGNETIC WAVE BAND FREQUENCY MEASUREMENT USING JOSEPHSON JUNCTION

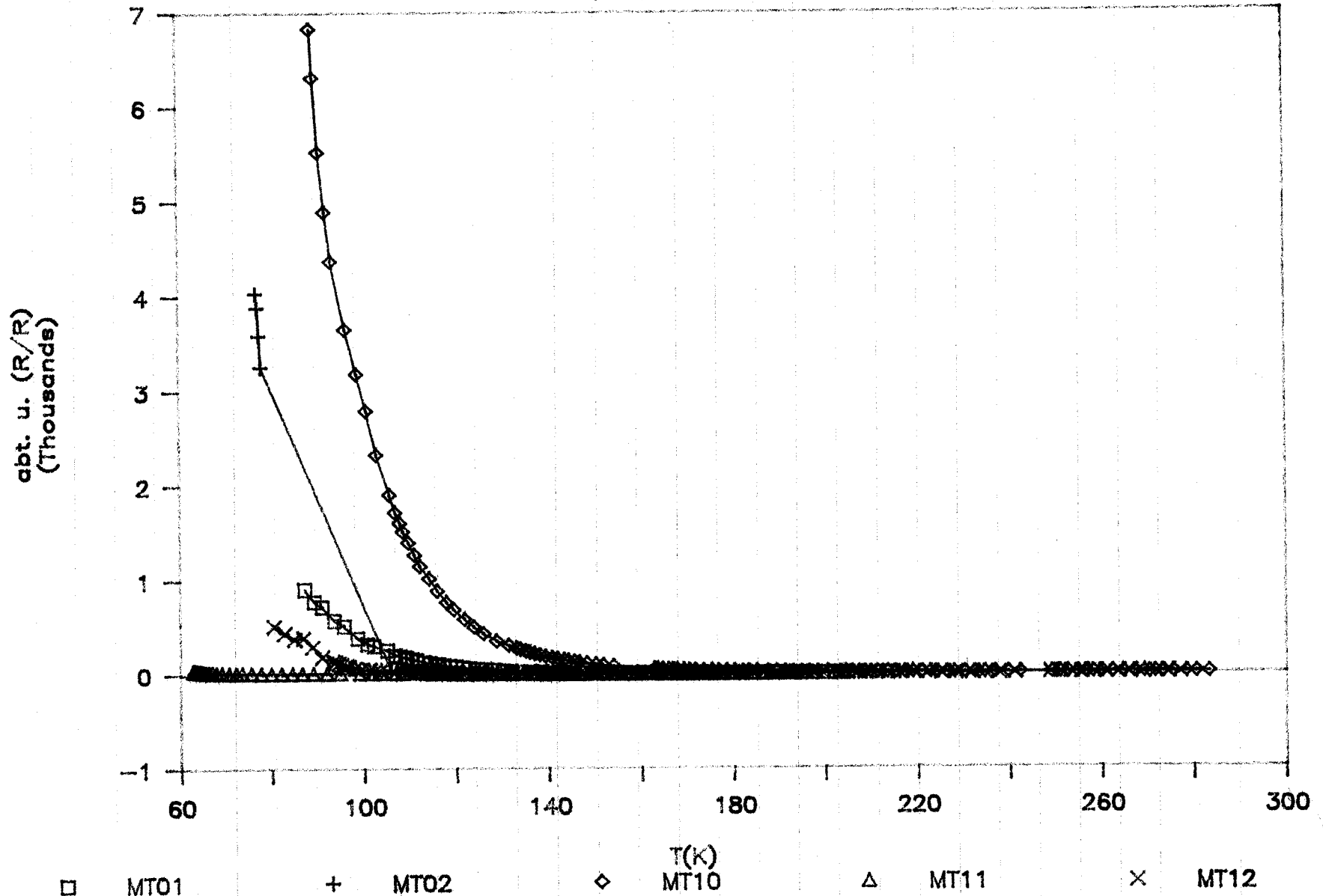
A. G. Denisov, Chief of High-Tc Superconductivity
Scientific Department of NPO "Saturn", 252180, Kiev-180, GSP, USSR

10:45 - 11:10

HTSC MICROWAVE PRODUCT DEVELOPMENT

Robert Hammond
Superconductor Technologies Inc., Santa Barbara, CA

Mg-Ti-O
10/17/1990 TCSUH



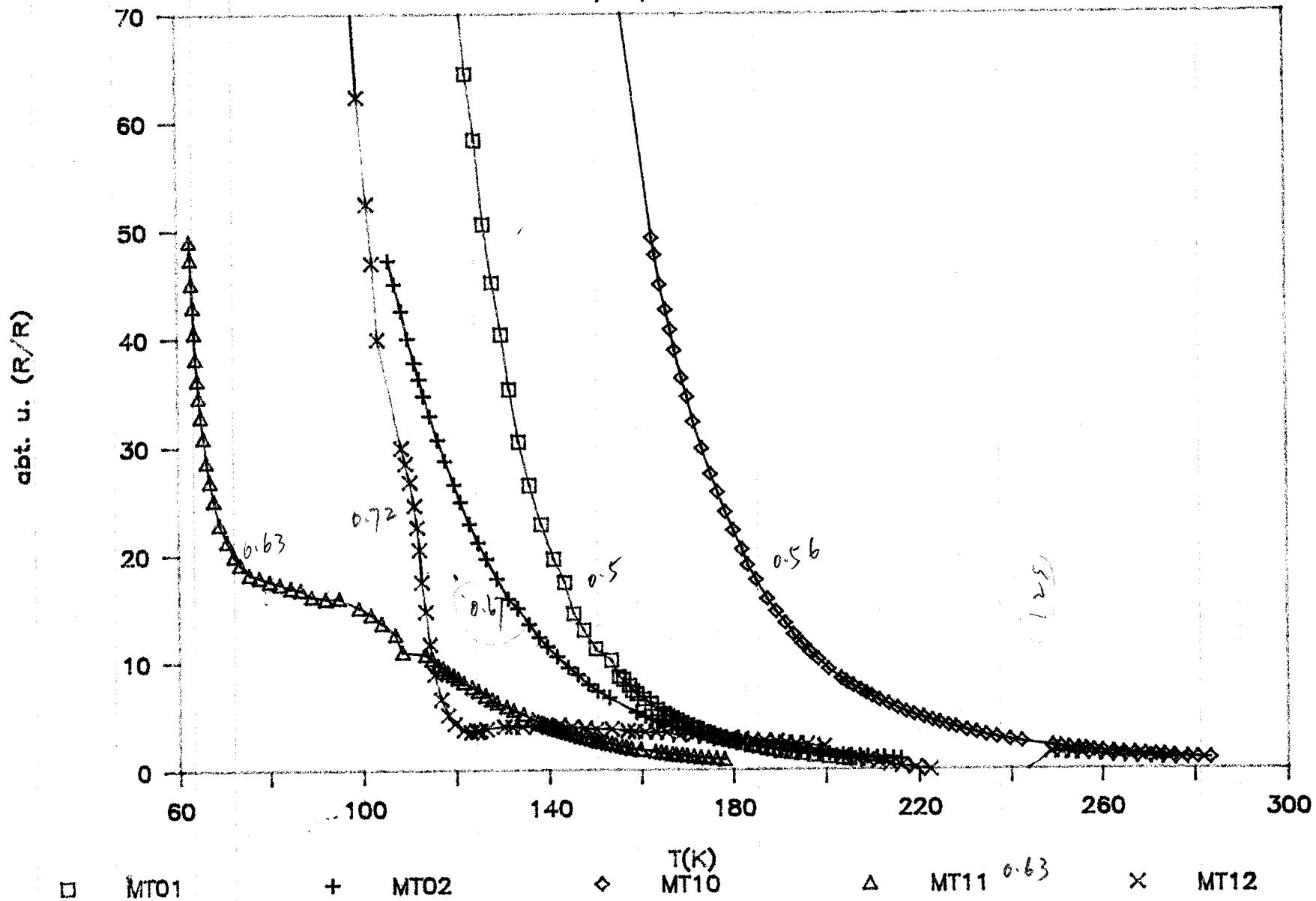
RLM0617

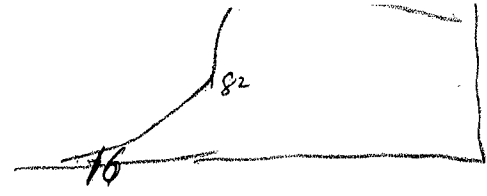
10-17

10-17

ln R vs $\frac{1}{T}$

Mg-Ti-O
10/17/1990 TCSUH





820°C

BS1-820

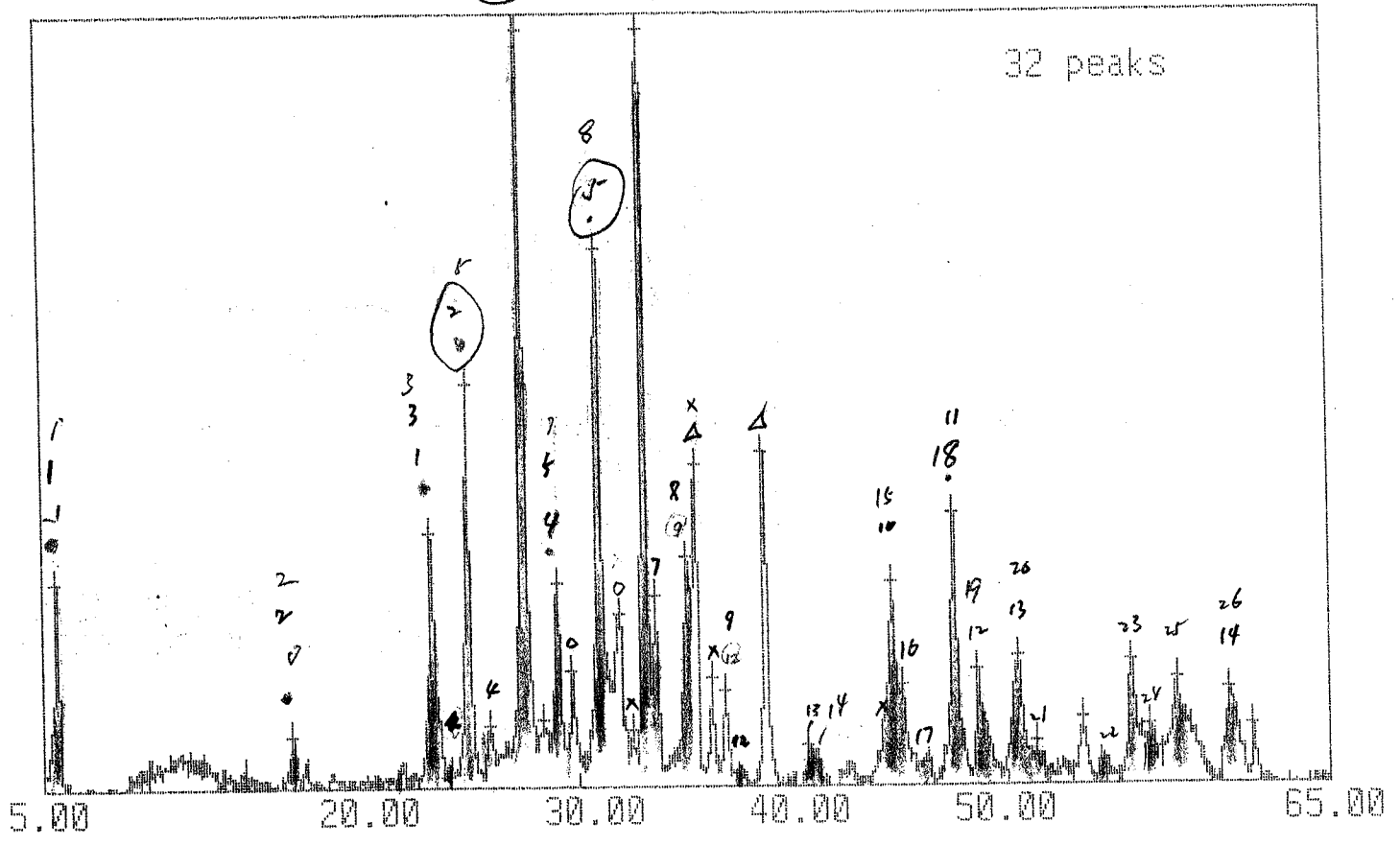
Sample Name : BS1-1-302

- △ CaO
- CaCO₃
- × Ca₂Ca₂O₃

69

.4 K
CPS

32 peaks



RLM0619

No34

6/31/88

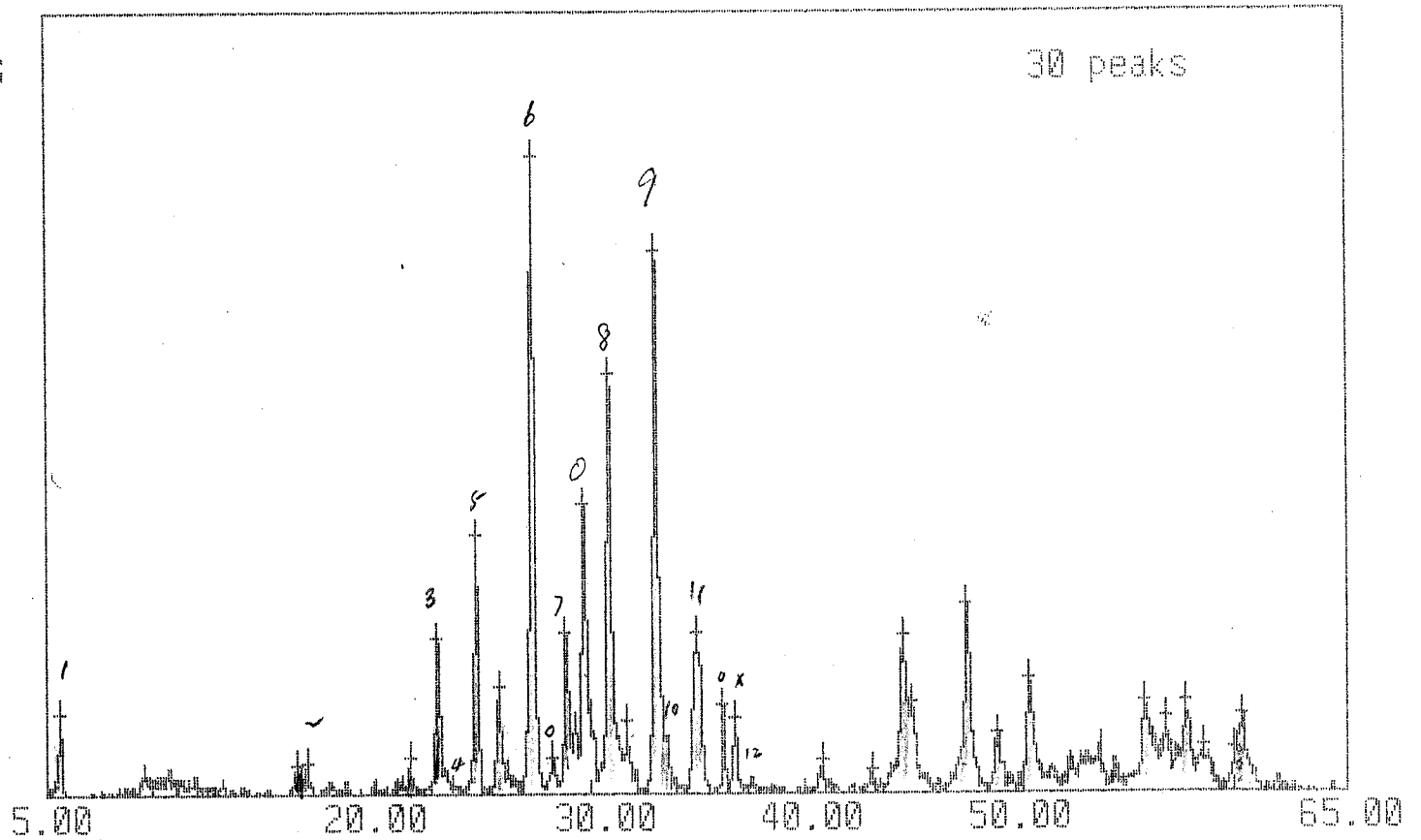
x SrO

o Ca

Sample Name : BS35-1311

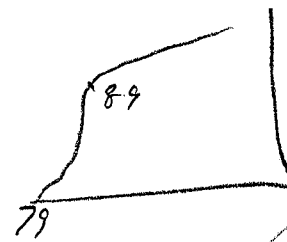
.4 K
CPS

30 peaks



RLM0620

Menu



$\left. \begin{array}{l} \text{Cu} \\ \text{CaO} \\ \text{CuO} \end{array} \right\}$

4

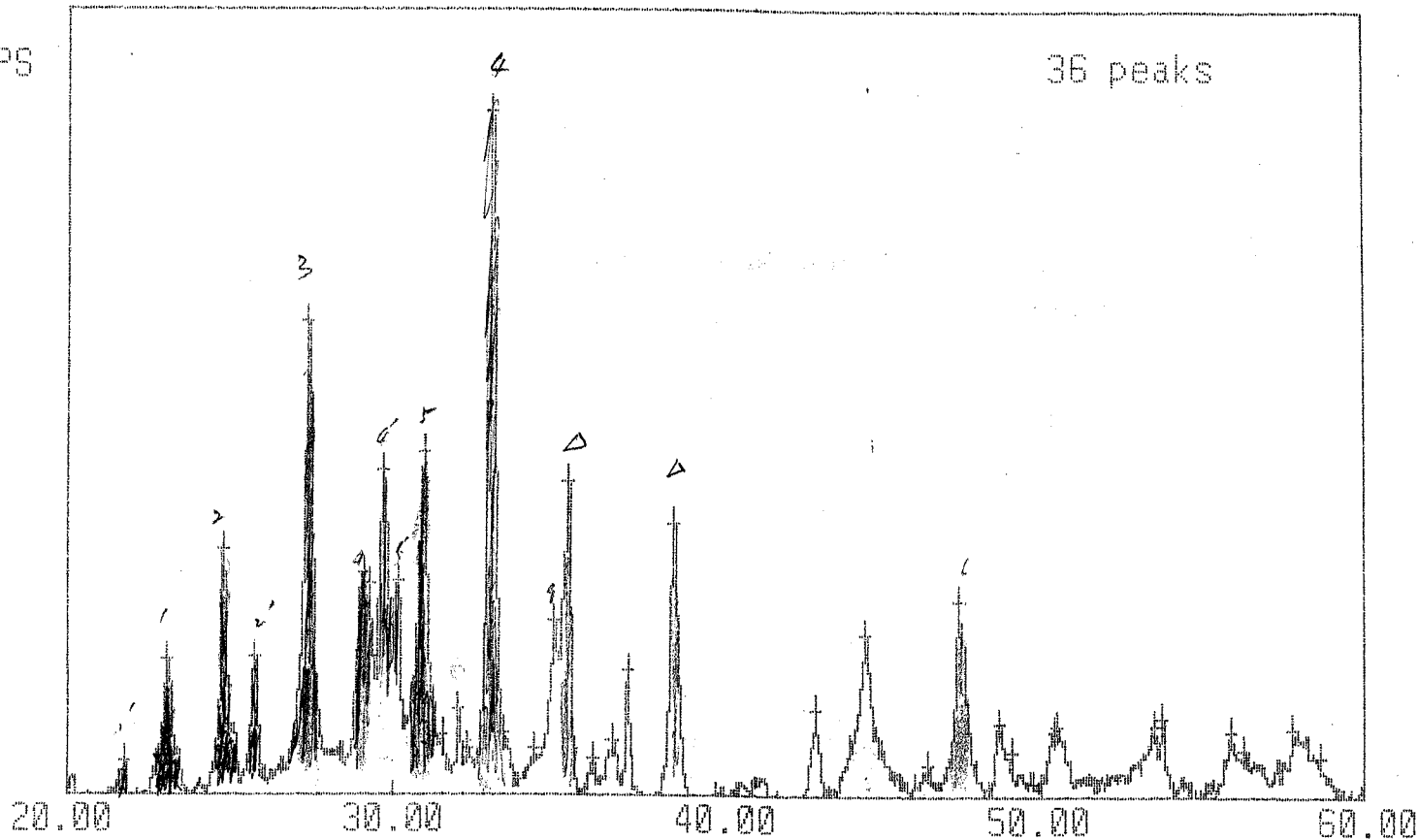
840

860 °C

BS-13 1-29-1

Sample Name : BS13-864

.4 K
CPS



RLM0621

Sample Name : BS13-2-1-1

- $\text{Bi}_2\text{O}_{2.75}$
- ✓ CaCO_3
- × SrCO_3
- △ Cu_4O_3
- Sr

14 5
9 7
10
14 9
17 19
14

1.809
1.789
1.739
1.716
1.649
1.629
1.605
1.599
1.529

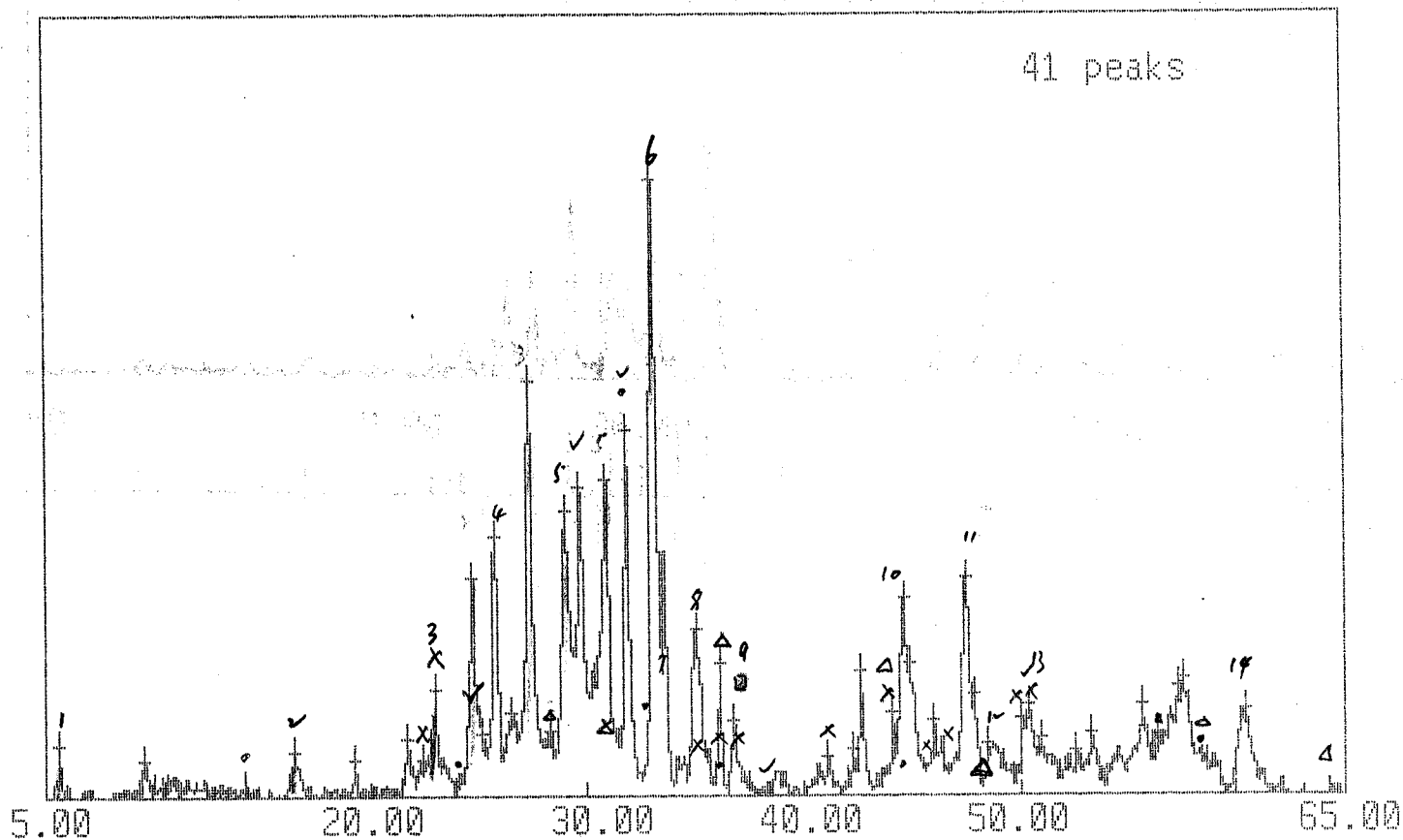
0.525
0.525
0.450
0.450
0.525
0.525
0.450
0.675
0.600

46
28
23
31
46
29
55
59
44

50.400
51.000
52.600
53.350
55.700
56.450
57.350
57.600
60.500

33
34
35
36
37
38
39
40
41

4 K
CPS



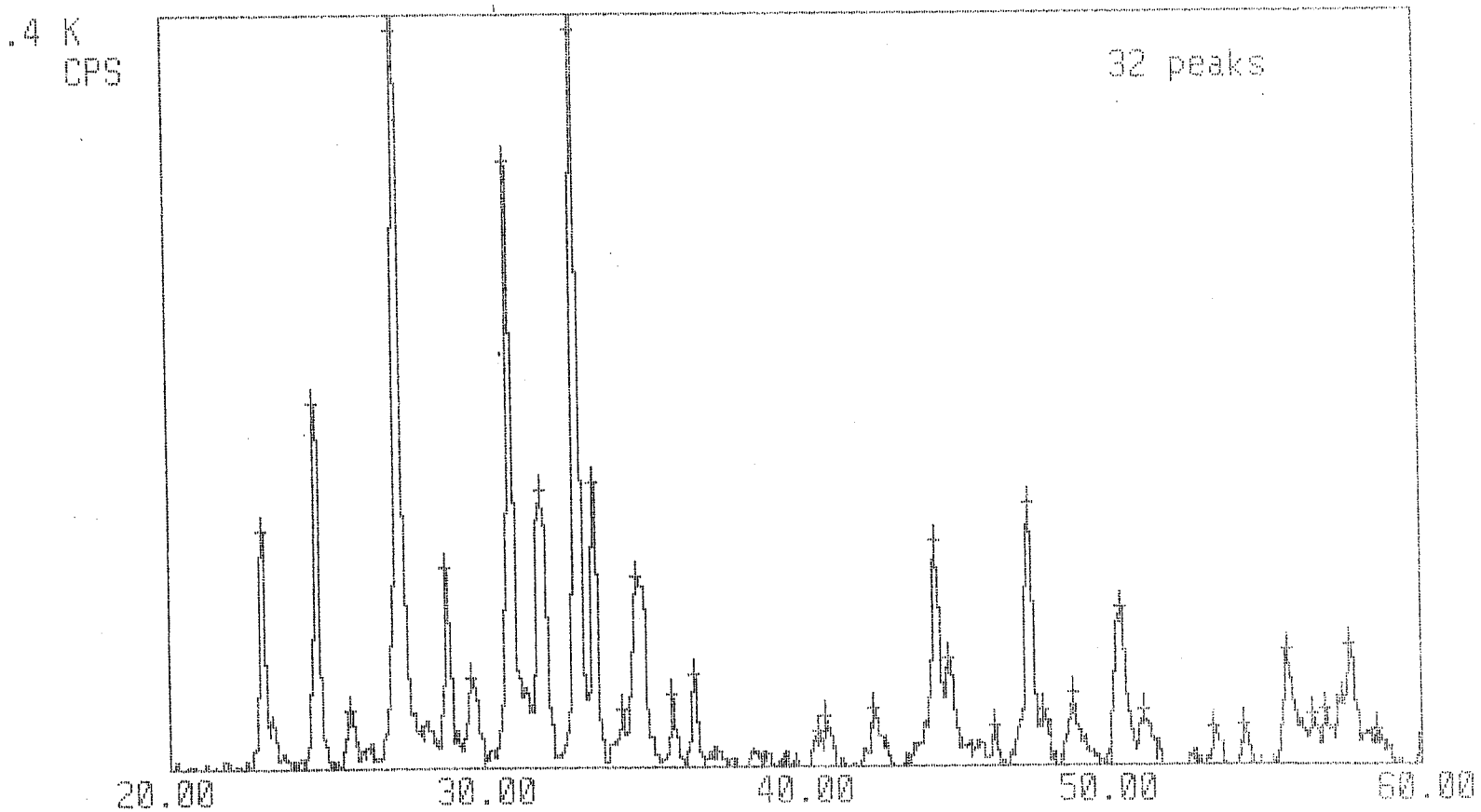
RLM0622

L

R

Menu

Sample Name : BS13-B80

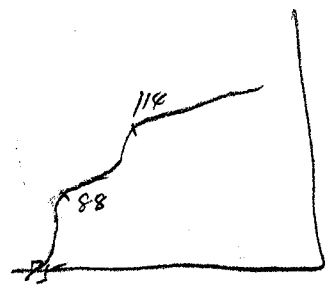


L

R

Menu

114-88-25



(5)

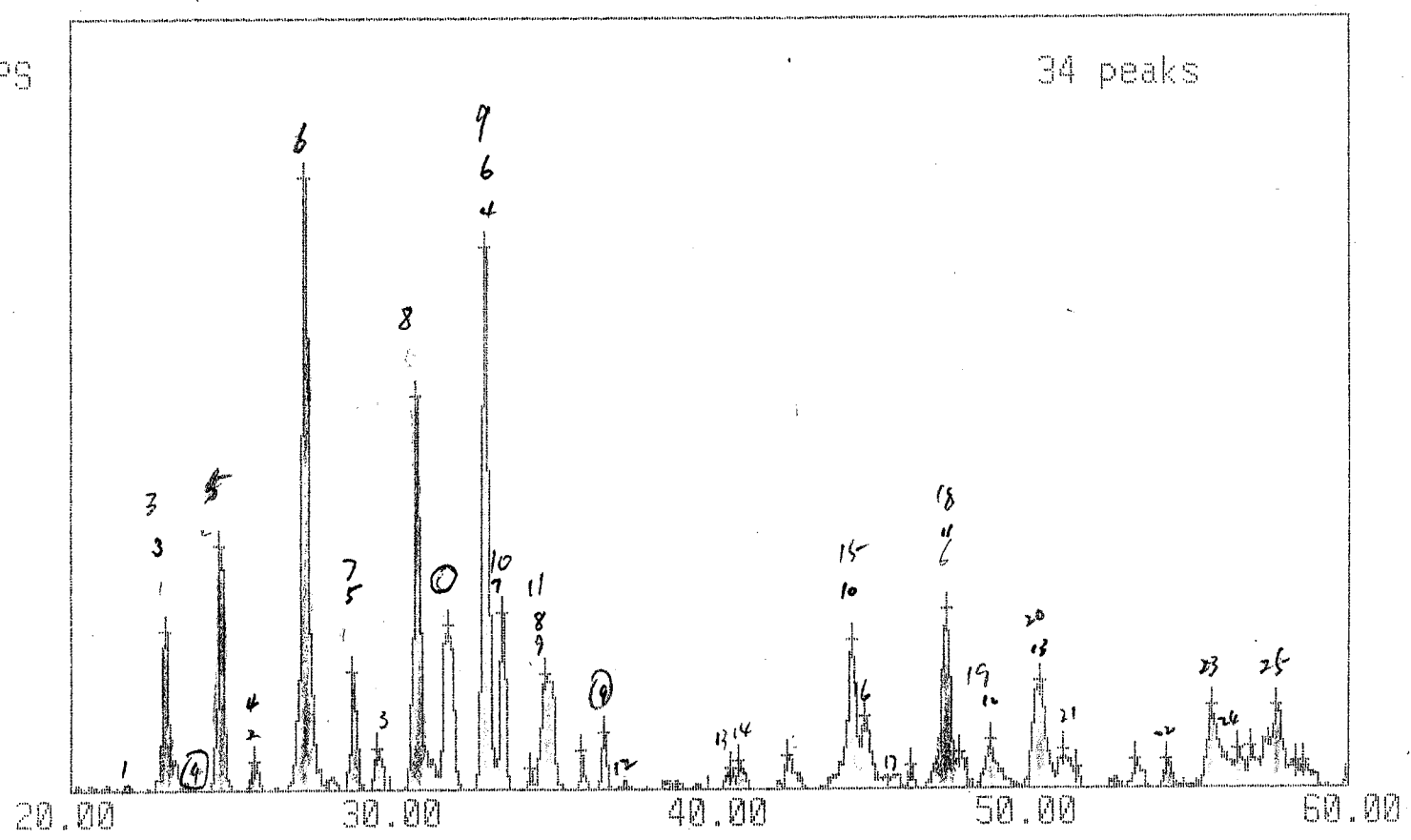
890
880° C

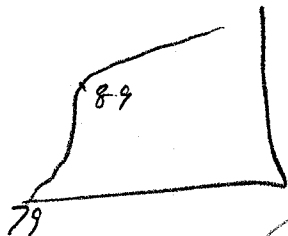
BS-13 1-29-2



Sample Name : BS13-880

.6 K
CPS





Ca
CaO
CuO

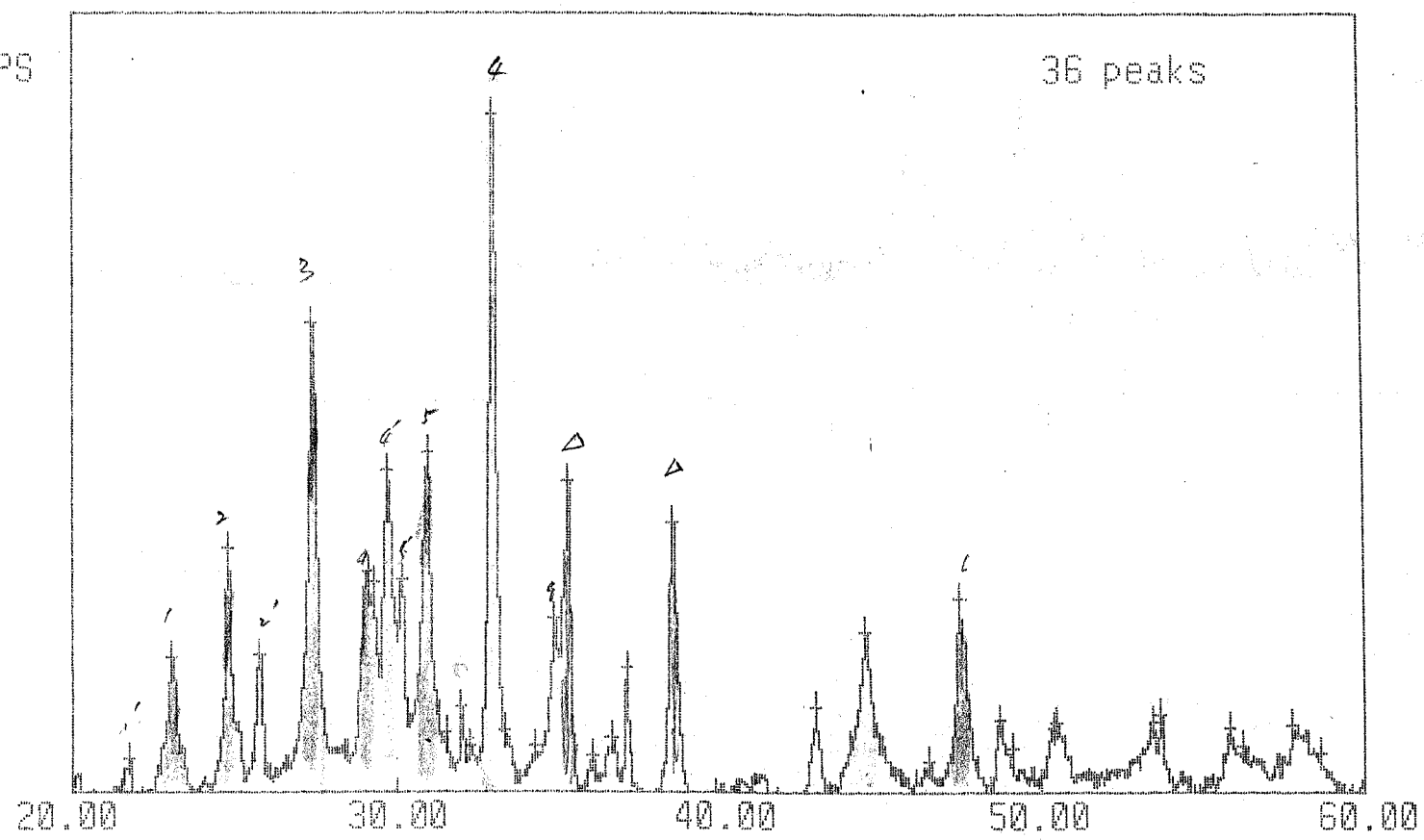
4

840
860 °C

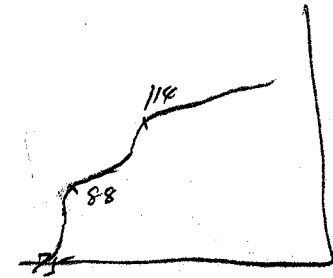
BS-13 1-29-1

Sample Name : BS13-864

.4 K
CPS



114-88-25



5

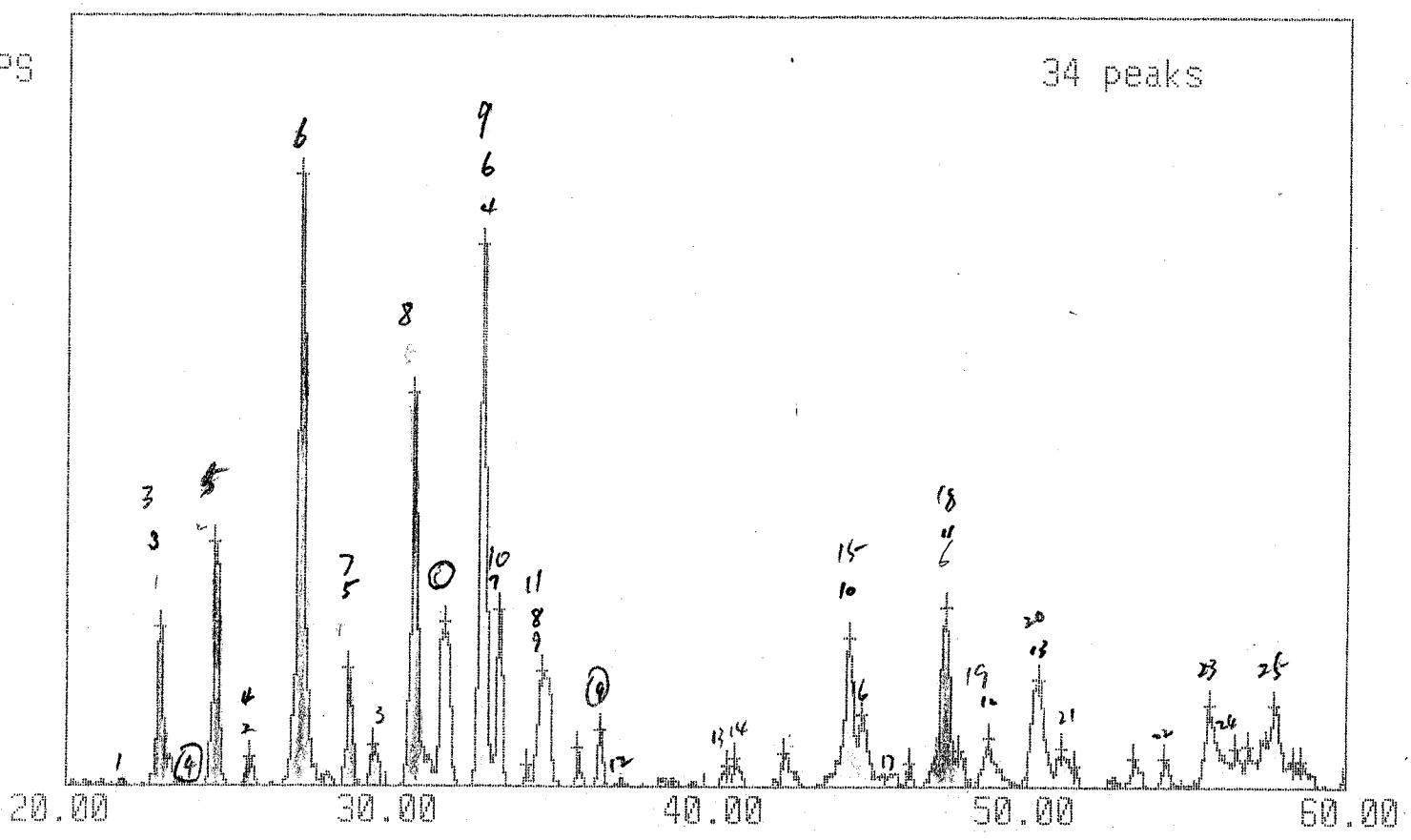
890
880° C

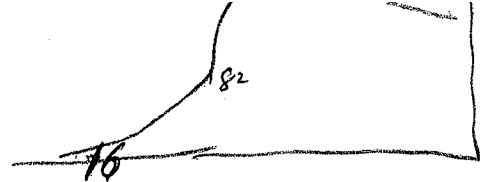
BS-13 1-29-2



Sample Name : BS13-880

.6 K
CPS





820°C

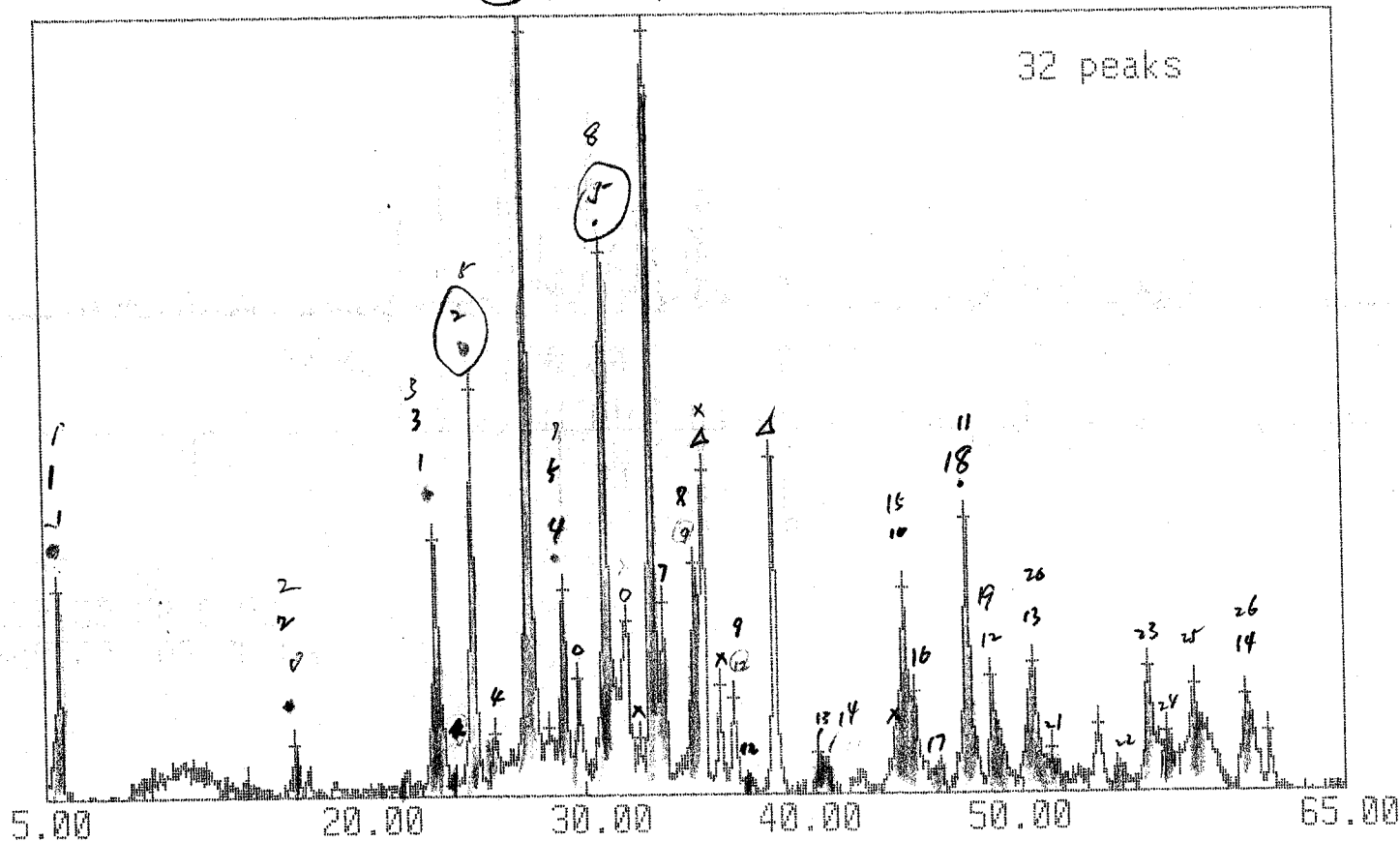
BS1-820

Sample Name : BS1-1-302

- △ CaO
- CaCO₃
- x Ca₂CaO₃

3 69

.4 K
CPS



No34

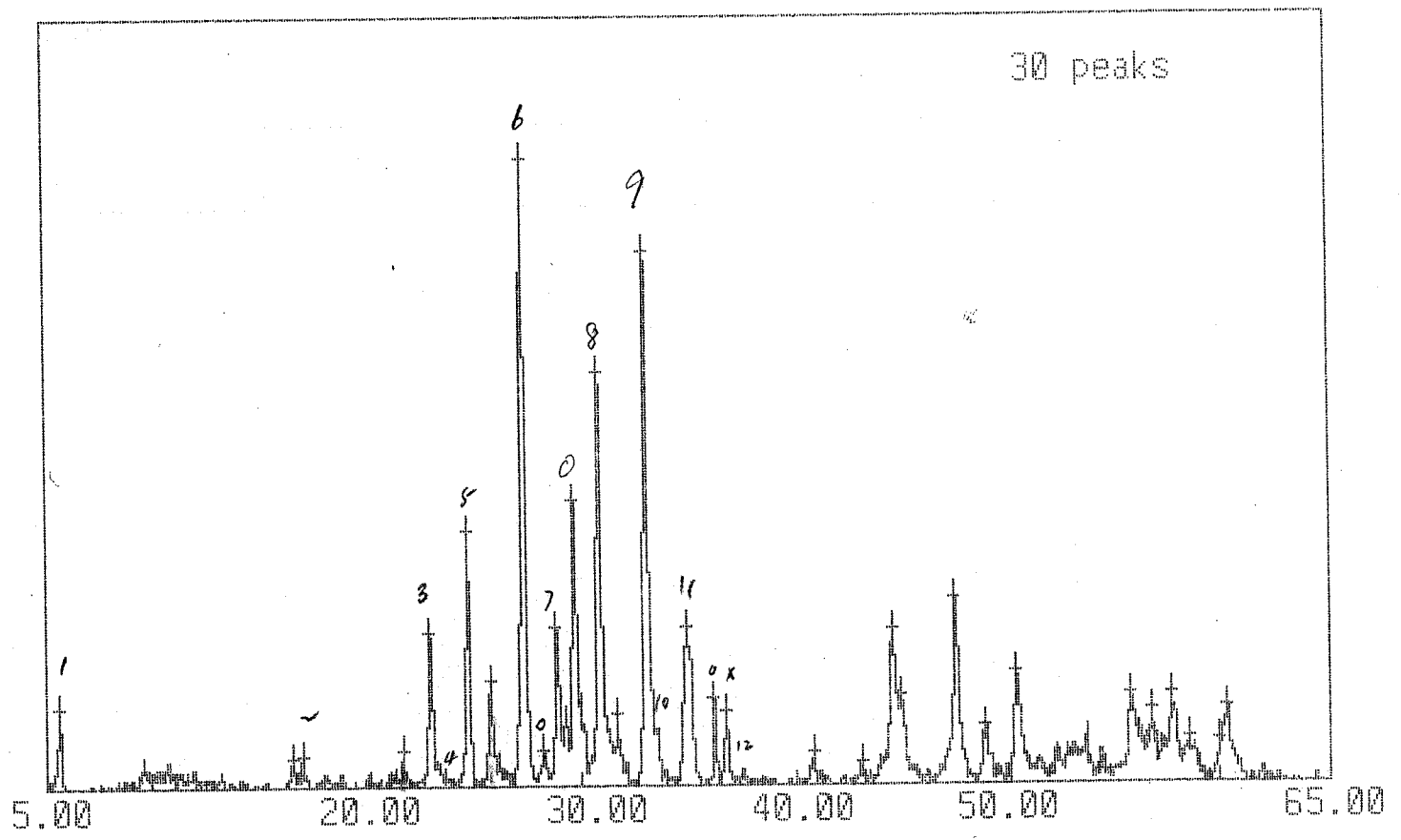
4/31/88

RLM0628

x Sr
o Ca

Sample Name : BS35-1311

.4 K
CPS



• $Bi_2O_{2.75}$

✓ $CaCO_3$

x $SrCO_3$

△ Cu_4O_3

□ Sr

Sample Name : BS13-2-1-1

14 3
9 7
10
14
9
17
19
14

1.809
1.789
1.739
1.716
1.649
1.629
1.605
1.599
1.529

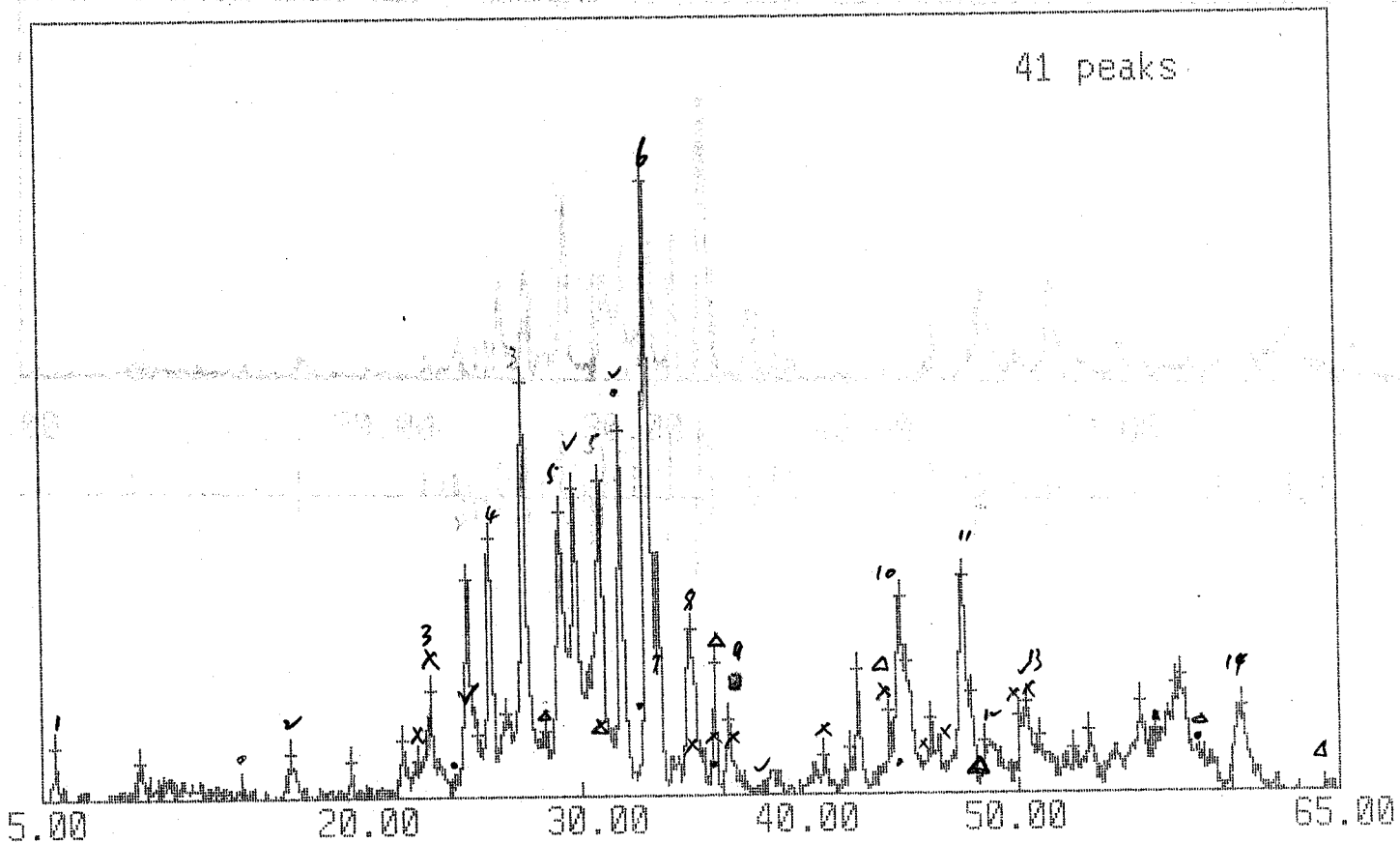
0.525
0.525
0.450
0.450
0.525
0.525
0.450
0.675
0.600

46
28
23
31
46
29
55
59
44

50.400
51.000
52.600
53.350
55.700
56.450
57.350
57.600
60.500

33
34
35
36
37
38
39
40
41

.4 K
CPS



L

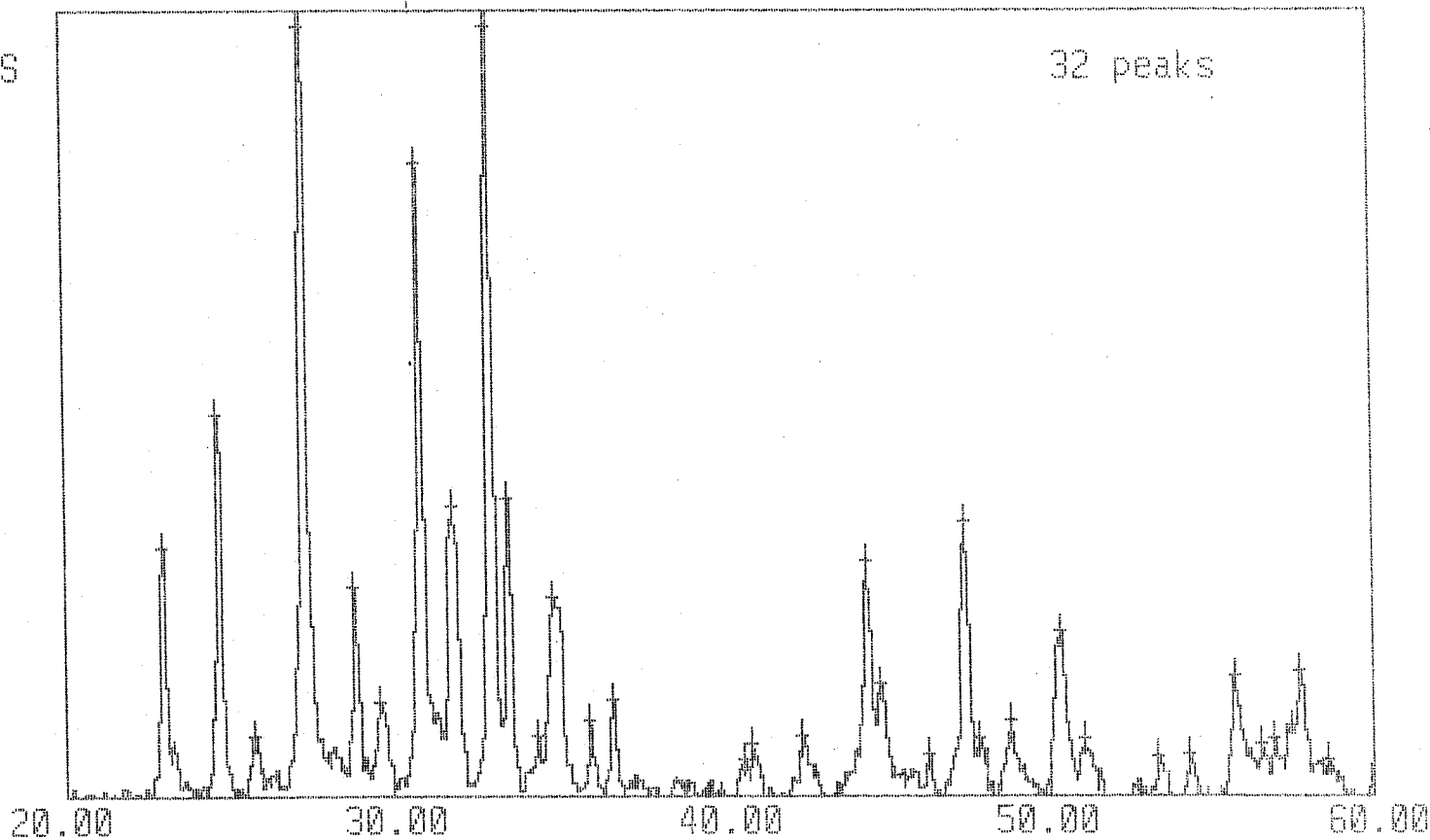
R

Menu

Sample Name : BS13-880

.4 K
CPS

32 peaks



L

R

Menu

1 - 29 - 1988

Sample	Temp.	Time	Atm	Furnace	Tc	
BS-1-1-29-2	880c	1 h	Air	Box	87-72	
BS13-1-29-2	880c	1 h	Air	Box	114-88-75	
BS13-1-29-1	864c	2hs	Air	slide	87-74	
BS13-1-29-3	870	8hs 400/4hs	Air	Box	87-76	
BS13-1-29-4	650	1h	Air		fax-ray	
BS13-1-29-5	850c	2hs	Air	Box	Box	second fire for 1-29-1
BS-1-1-29	870	8hs 400/4hs	Air	Box	Box	
BS-31-1-29-1	780	3hs	slid	slide		
BS-32-1-29-1	780	"	"	slide		
BS 33-1-29-1	850/870	2 3hs	Lab F.	Lab	90-70	✓
BS 34-1-29-1	850/870	3hs	Lab F.	Lab		
BS 31- 1-29-1 1-29-2	770	2hs	Air/slid	Slide		
BS 32-1-29-2	770	2hs	Air	slide	Now Auger	
BS 33-1-29-2	820	2hs	Air	slide		870 . 800c
BS 34-1-29-2	820	2hs	Air	"		
BS13-1-29-6	878	2hs	Air	Box		
BS13-1-29-7	878	2hs	Air	Box	96-64	second time 1-29-1
B13-1-29-8	880	h	O ₂	slide	79	M
B13-1-29-9	880	h	O ₂	slide		second third O ₂ first time second → Air

1-30 1988
Tc

13 1-30-1 900 3hs O2 slide ~~83-74.5~~

33 1-30-1 900 3h O2 slide

4 1-30-1 825 4hs Air Lab 83-34.5 ^{100m2}

1-30-2 878 10hs Air Box ~~114-107-82-72~~
~~400/3hs~~ ~~120-89-47~~
120-

1-30-2 878 10hs Air Box NON Augur. ?
400 3hs

1 1-30-1 820 2hs Air Lab 81-77

2 1-30-1 820 2hs Air Lab 96.5-60 ^{200m2}

1-30-2

2-1-30-2

3-1-30-3 830 22hs Air 3 zone 89-72 ^{46m2} big X

1-30-1 750 1h Air Box NON 12

3-1-30-3 820 22hs Air ~~32~~ NON ^{1500m2} 82

4-1-30-2 830 22hs Air F3 zone 88.5-~~52~~ ⁵² ^{50m2}

5 1-30-1 750 1h Air Box NON

1-30-4 920 3hs O2 slide 81-46

1-30-2 820 Air Box ~~92-70~~ ~~87-77~~ (750 thru 820)

1-30-3 820 2hs Air Box 92-84 new front fence

55 1-30-2 820 2hs Air Box 96-68 nav

875

1-31

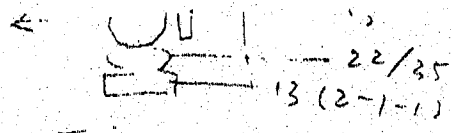
1988

~~875~~
888 °C

	Temp	Time	Atm	Te	
BS1 1-31-1	875	3hs	Air Box	111-74-77	small
BS1 1-31-2	875	3hs	Air Box	114-108 83-77	750c 1hs / 820 2hs / 875 big
BS 35 1-31-1	875	3hs	Air Box	115 small (74)	→ 84-71 X-ray show pure phase
BS 13 1-31-1	895	3hs	Air slid	108 small 83-75-60	87-30-3 sound
BS 13 1-31-2	895	3hs	Air	110-112-87-64 115-110-87-64	four-time small
BS 13 1-31-3	895	3hs	Air slid		
BS 13 1-	865				
BS 13 1-31-5	895	3hs	Air	82-59	(114) second time
BS 13 1-31-6	864 (830 read)	1hs	Air	82-20	the furnace is upstairs
BS-1 1-31-3	720	Ar 1hs	-24 0c	89-72	w/ furnace
BS-22 1-31-1	720	"		90-80	"
BS-13 1-31-7	720	"		94-85-71	"
BS-13 BS1-	780	Air 2hs			Box

1 Feb 1988

2-1-88



Tc

13-1 880 14hs Air Box 91-80-60 first time 860 2hs → 880 14hs
 cool 600°C

1-1-2 880 14hs Air Box 91-80
 cool 600°C ~~3~~ 3 time closed to heating element. Temp. little higher slight melt

2-1-1 880 14hs Air Box 116-88.5-67 X-ray sharp phase phase Temperature higher than 135-13
 cool 600°C

1-1-1 880 14hs Air Box 115-88.5-69
 cool 600°C

2-1-3 880 14hs Air Box 96-79 96-79 860 2h, → 880 14h
 one time only to 250°C

3-1-1 880 14h Air Box second time.

2-1-2 880 20' 2000M O₂ 92-77 115 small

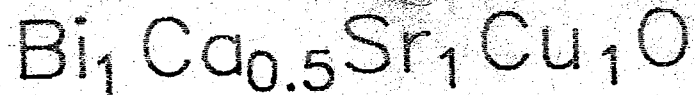
2-1-3 880 20' 2000M O₂ 92-69

2-1-4 925 2hs O₂ look NOW. Sa. ~~115-94-75~~ 115-94-75

2-1-3 930 3h O₂ look 82-69

2-1-4 890 1 h 2000M O₂ 115-94-75 open

2-1-2 880 14h Air Box 97-77



Jan. 31, 1988

Resistance (milliohm)

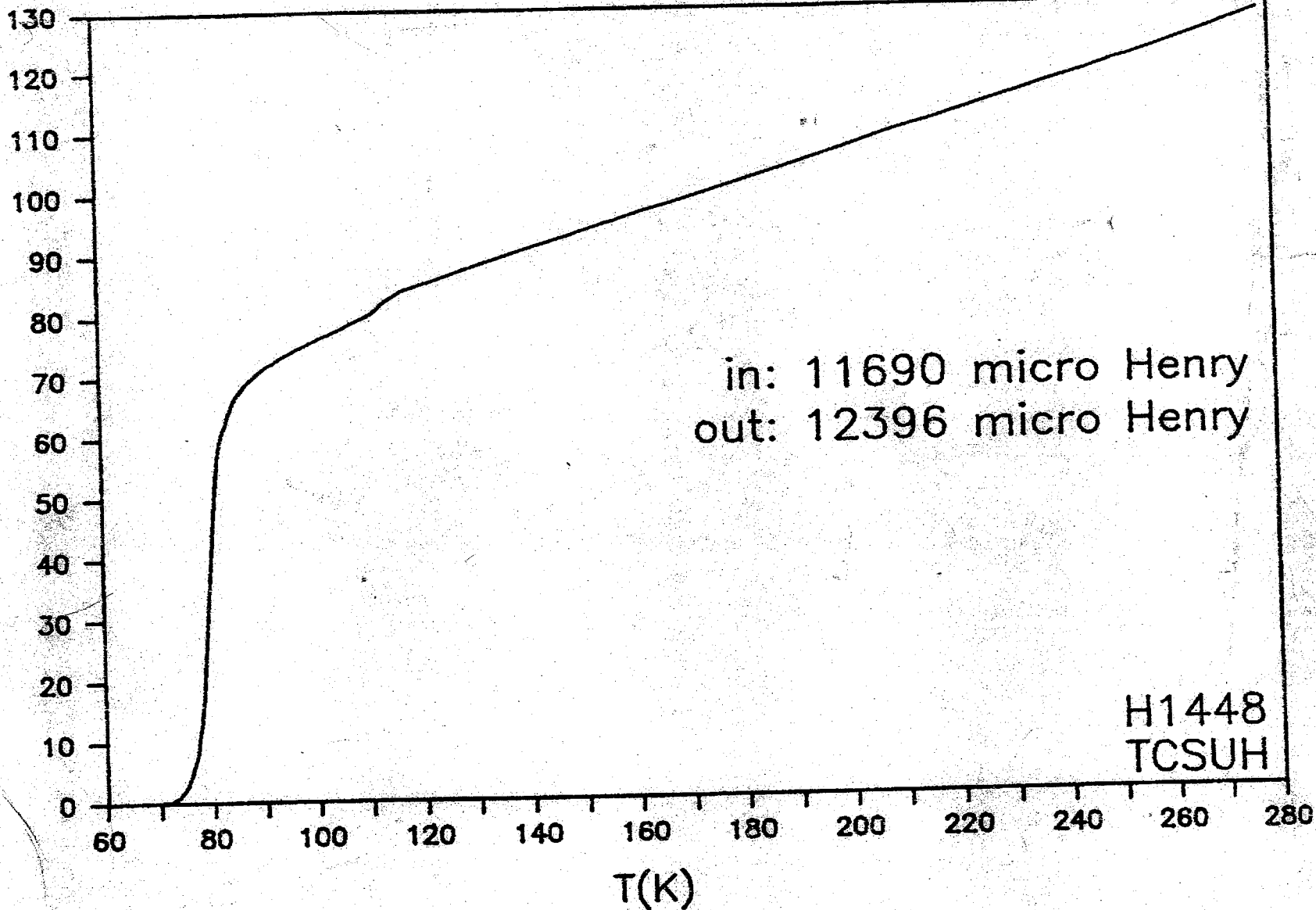


TABLE 1 - Powder Pattern

$a = 5.400$
 $b = 27.085$
 $c = 15.356$

<u>hkl</u>	<u>d_{obs}</u>	<u>d_{calc}</u>
001	15.40	15.36
003	5.126	5.119
004 } 150 }	3.841	{ 3.839 3.824
152	3.440	3.424
005	3.067	3.071
0·10·0 } 2 0 0 }	2.702	{ 2.709 2.700
0·10·1 } 2·0·1 }	2.661	{ 2.667 2.659
006	2.564	2.559
0·10·5 } 2 0 5 }	2.032	{ 2.031 2.028
1·10·0 } 2 5 0 }	2.441	{ 2.421 2.417
008 } 2·10·0 }	1.914	{ 1.919 1.912
0·10·6	1.866	1.860
0·15·0 } 3 0 0 }	1.807	{ 1.806 1.800
0·0·10	1.535	1.536

14 lines indexed

TABLE 1 - Powder Pattern

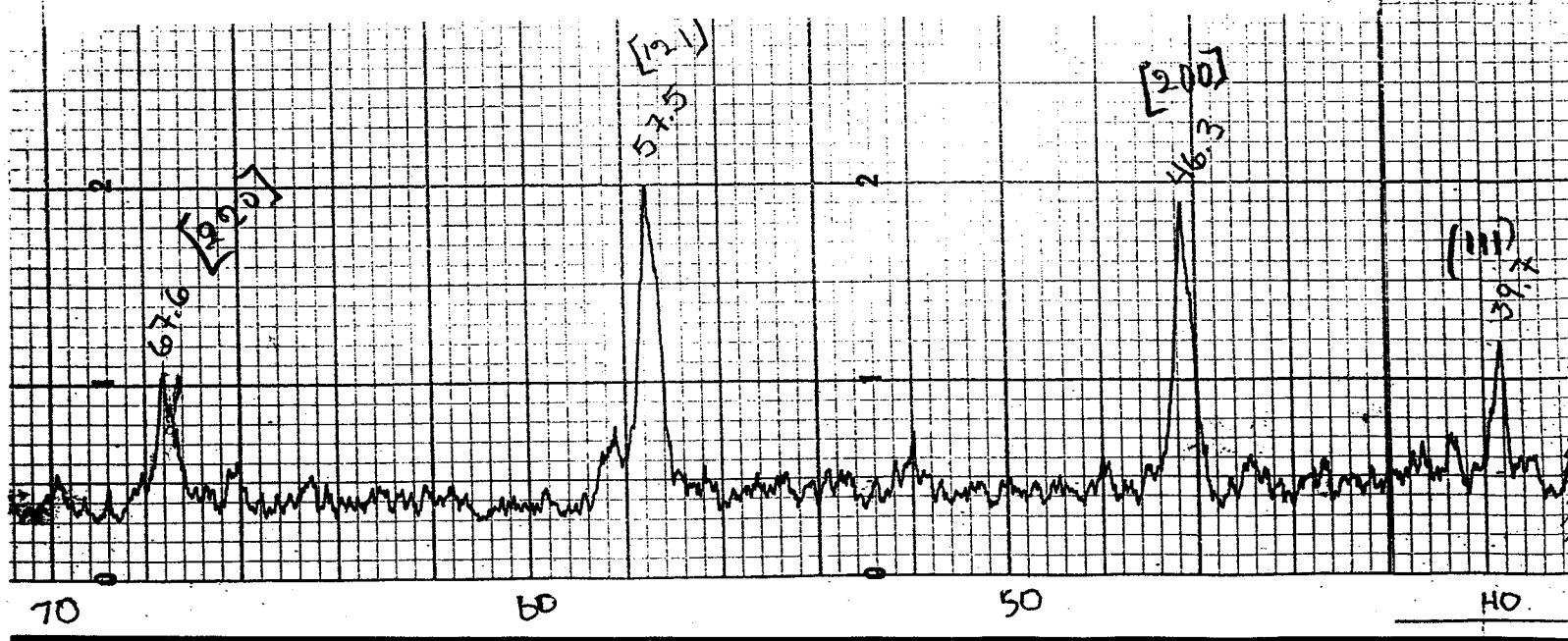
$a = 5.400$
 $b = 27.085$
 $c = 15.356$

<u>hkl</u>	<u>d_{obs}</u>	<u>d_{calc}</u>
001	15.40	15.36
003	5.126	5.119
004 } 150 }	3.841	{ 3.839 3.824
152	3.440	3.424
005	3.067	3.071
0·10·0 } 200 }	2.702	{ 2.709 2.700
0·10·1 } 2·0·1 }	2.661	{ 2.667 2.659
006	2.564	2.559
0·10·5 } 205 }	2.032	{ 2.031 2.028
1·10·0 } 250 }	2.441	{ 2.421 2.417
008 } 2·10·0 }	1.914	{ 1.919 1.912
0·10·6	1.866	1.860
0·15·0 } 300 }	1.807	{ 1.806 1.800
0·0·10	1.535	1.536

14 lines indexed

La-Ba-Cu-O (J-36) 123 Structure

2θ	d	hkl	I/I ₀
22.63	3.927	003 010	15/13
32.20	2.778	103 110	100/100
38.00	2.366	005	8/4
39.70	2.268	113	13/20
46.30	1.955	006 020	26/22
57.50	1.601	213 116	26/22
67.70	1.385	026 220	10/10

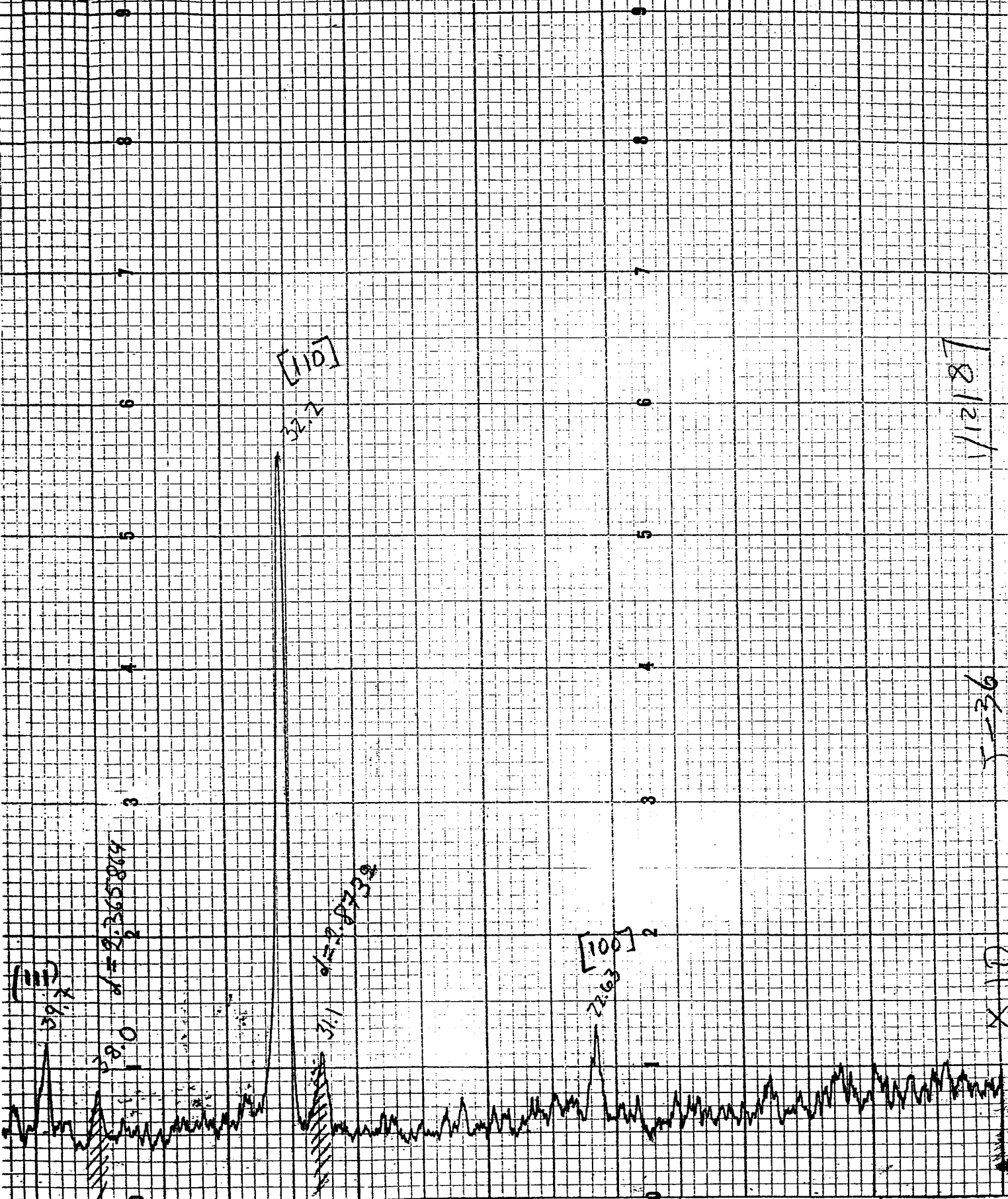


en Ra 400KV 20mA

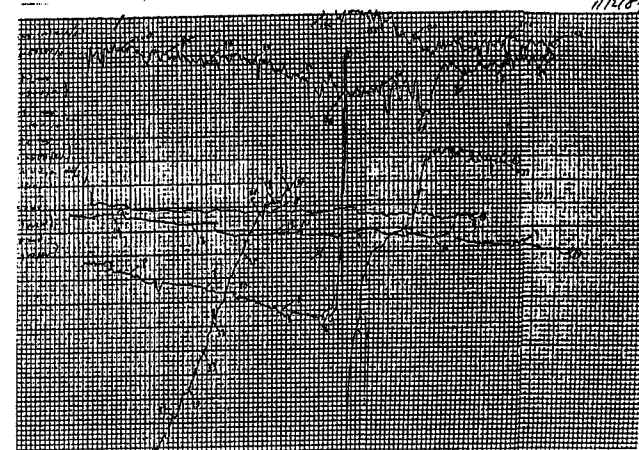
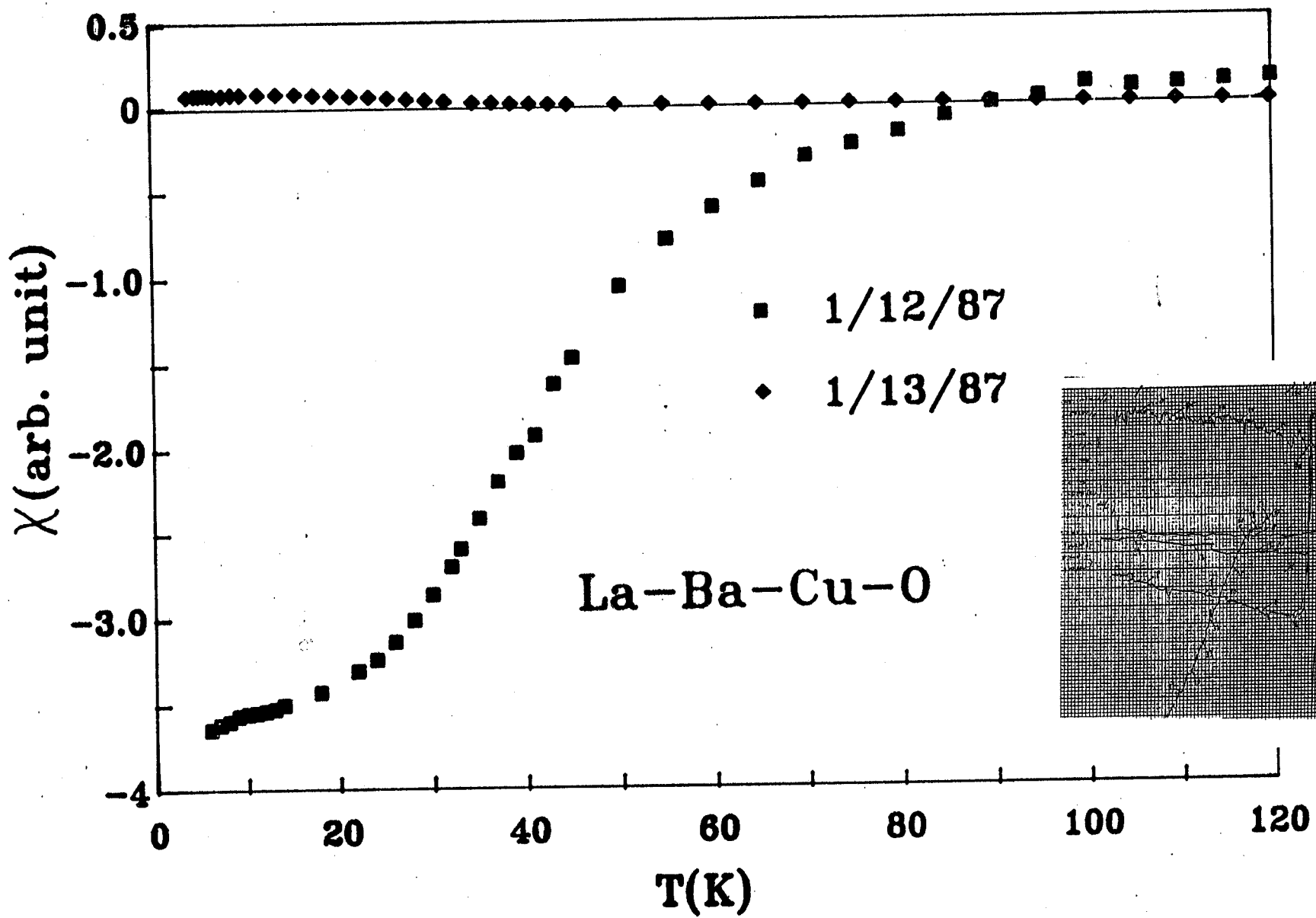
12 Jan 1987

$O_2 = 500 \mu$

La-Ba-Cu-O



1/12/87



唯幹媽

萬事如意！

祝 壽年

網得到最高超速度
77K 充滿信心！

蔡紹武
合上
12/14/86

Christmas
the warmth and joy
of remembering friends

Dear Wei-kan + Agnus

Wish Everything In This Year
Happen The Way You Want!

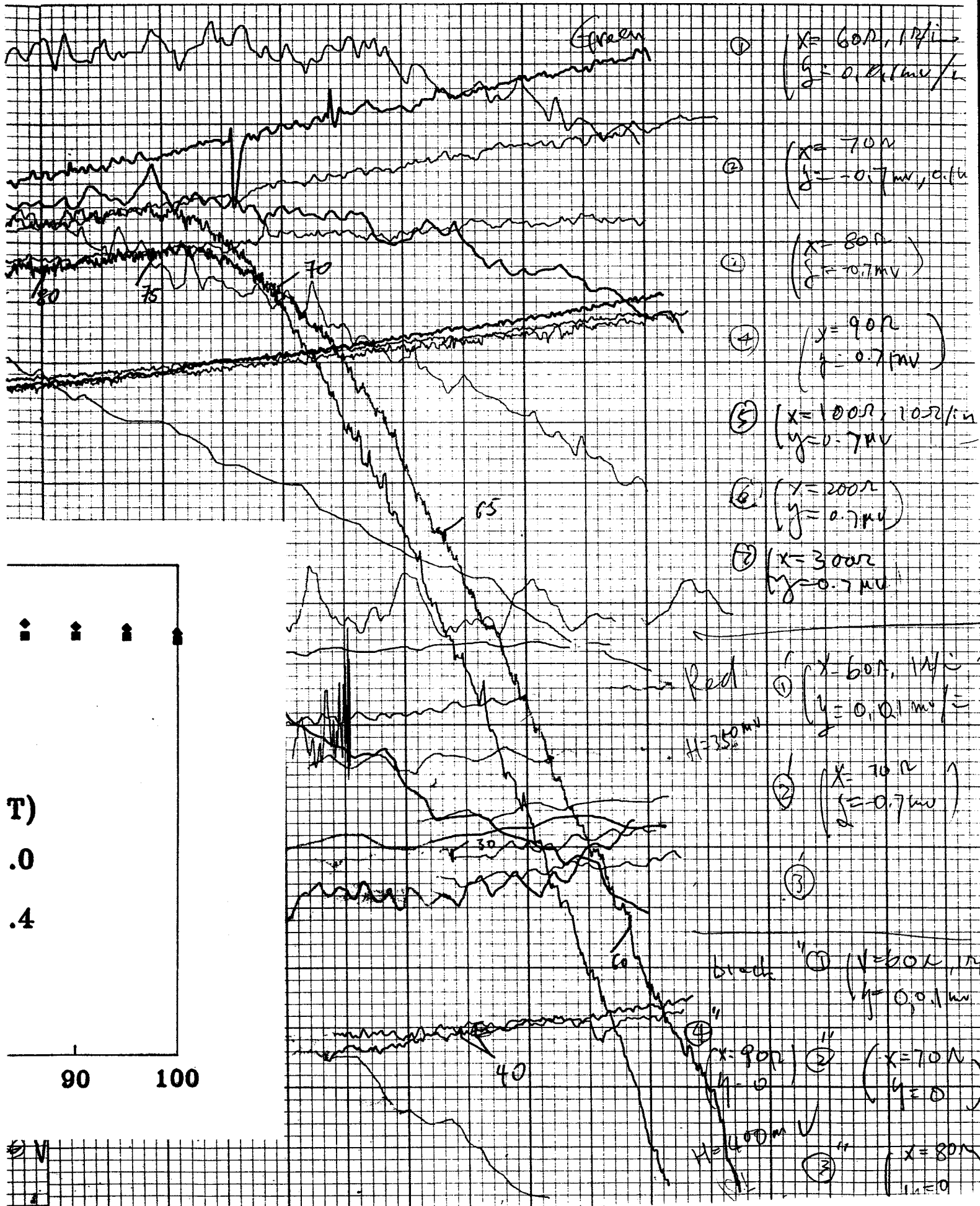
Ching-Wu + May
12/14/86

P.S. Just obtained max. T_c of 40.2K
Very likely 50K next week
I'm now full of confidence about
77K

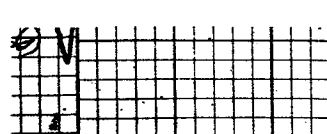
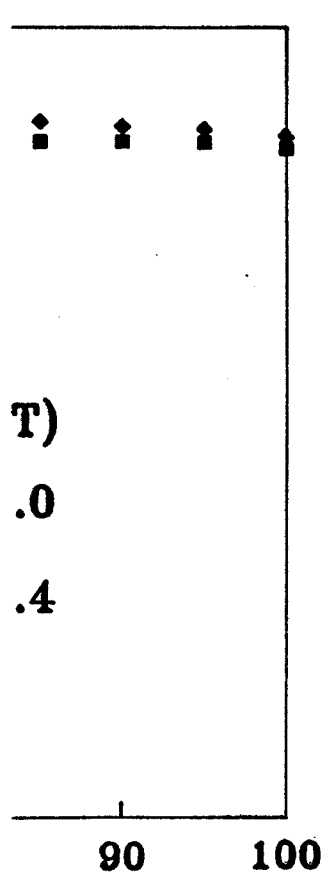
DO

I = (mA)

11-25-86



- ① $\left(\begin{array}{l} X = 60\Omega, 1\mu V \\ Y = 0.1\mu V/\mu V \end{array} \right)$
 - ② $\left(\begin{array}{l} X = 70\Omega \\ Y = -0.7\mu V, 0.1\mu \end{array} \right)$
 - ③ $\left(\begin{array}{l} X = 80\Omega \\ Y = 0.7\mu V \end{array} \right)$
 - ④ $\left(\begin{array}{l} X = 90\Omega \\ Y = 0.7\mu V \end{array} \right)$
 - ⑤ $\left(\begin{array}{l} X = 100\Omega, 10\mu V/\mu V \\ Y = 0.7\mu V \end{array} \right)$
 - ⑥ $\left(\begin{array}{l} X = 200\Omega \\ Y = 0.7\mu V \end{array} \right)$
 - ⑦ $\left(\begin{array}{l} X = 300\Omega \\ Y = 0.7\mu V \end{array} \right)$
-
- Red: ① $\left(\begin{array}{l} X = 60\Omega, 1\mu V \\ Y = 0.1\mu V/\mu V \end{array} \right)$
 - ② $\left(\begin{array}{l} X = 70\Omega \\ Y = 0.7\mu V \end{array} \right)$
 - ③
 - Black: ① $\left(\begin{array}{l} X = 60\Omega, 1\mu V \\ Y = 0.1\mu V/\mu V \end{array} \right)$
 - ② $\left(\begin{array}{l} X = 70\Omega \\ Y = 0 \end{array} \right)$
 - ③ $\left(\begin{array}{l} X = 80\Omega \\ Y = 0 \end{array} \right)$



blue (1) (x=60, y=0)



(x=20, y=0.2)

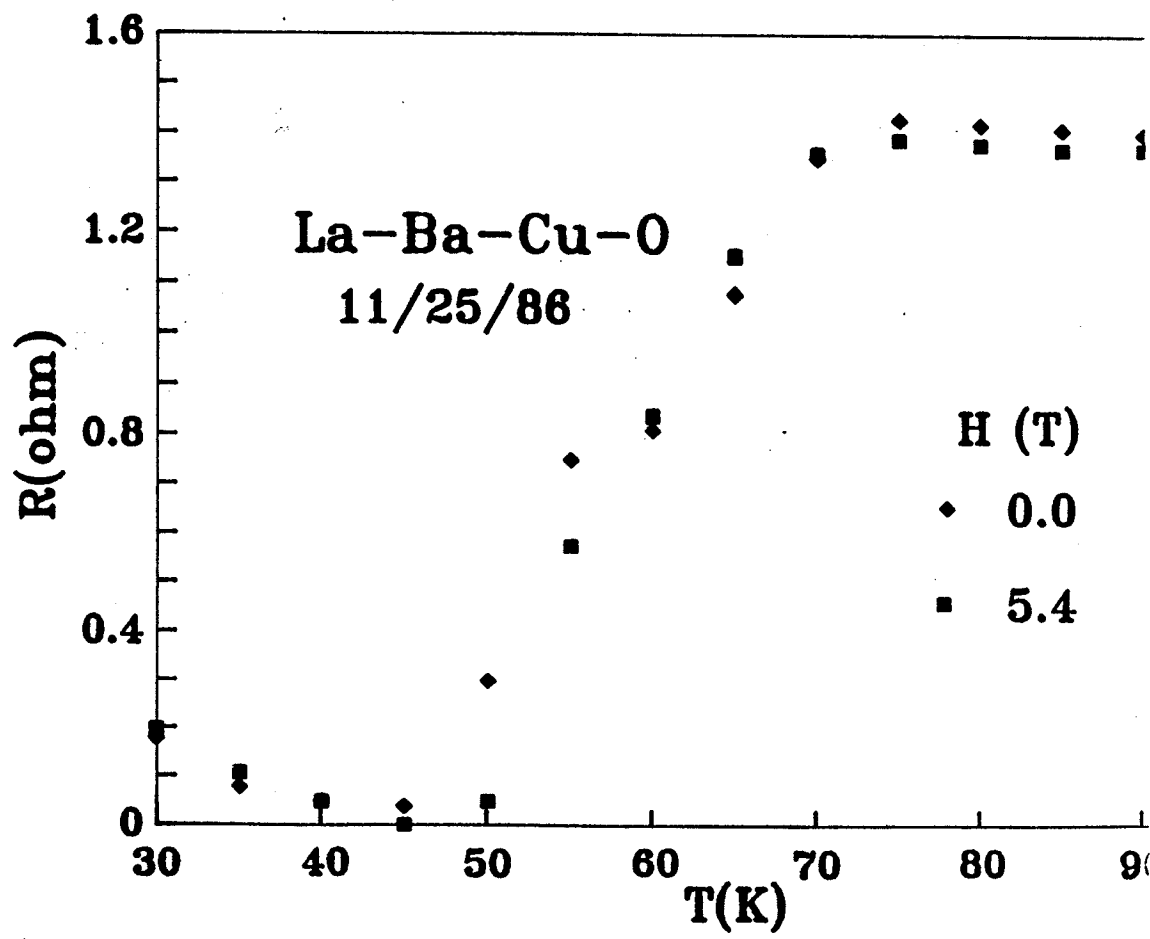
Black (1) (x=60, y=0)

(2) (x=70, y=0)

(3) (x=80, y=0)

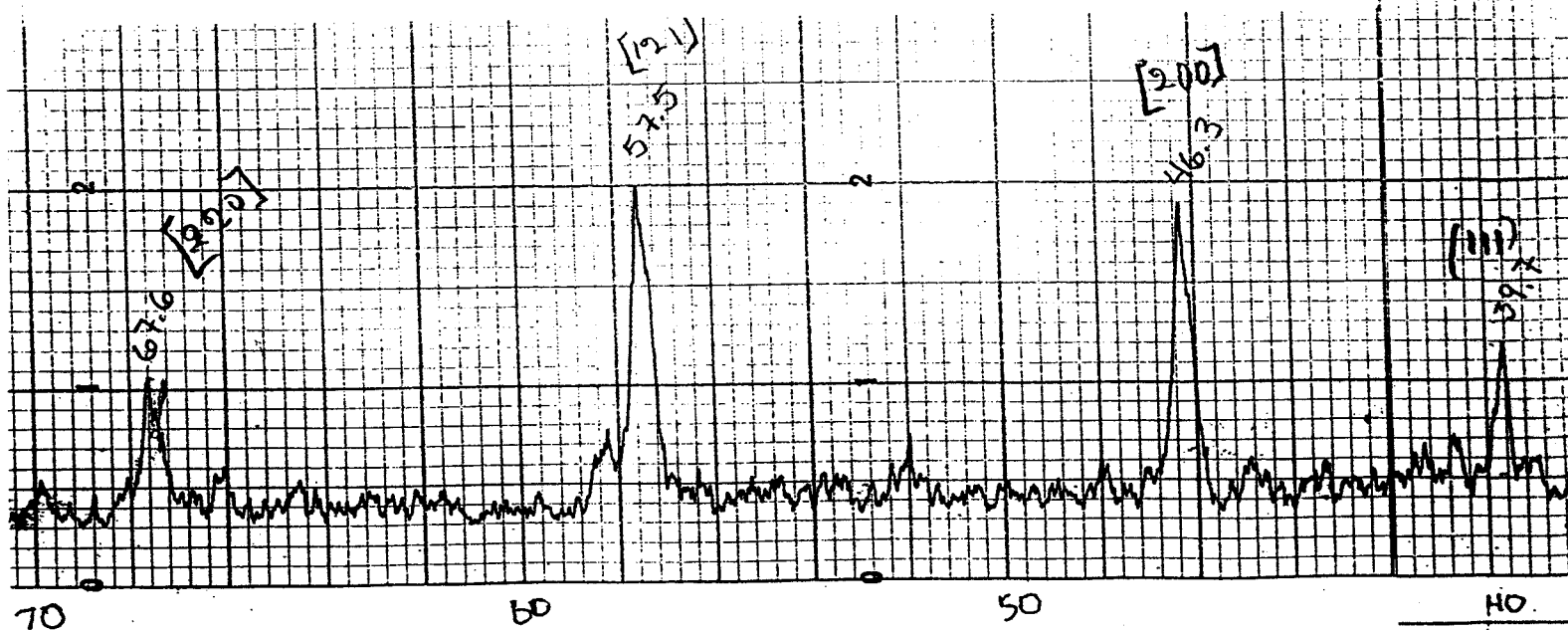
(4) (x=90, y=0)

(5) (x=100, y=0)



La-Ba-Cu-O (J-36) 123 Structure

2θ	d	hkl	I/I ₀
22.63	3.927	003 010	15/13
32.20	2.778	103 110	100/100
38.00	2.366	005	8/4
39.70	2.268	113	13/20
46.30	1.955	006 020	26/22
57.50	1.601	213 116	26/22
67.70	1.385	026 220	10/10

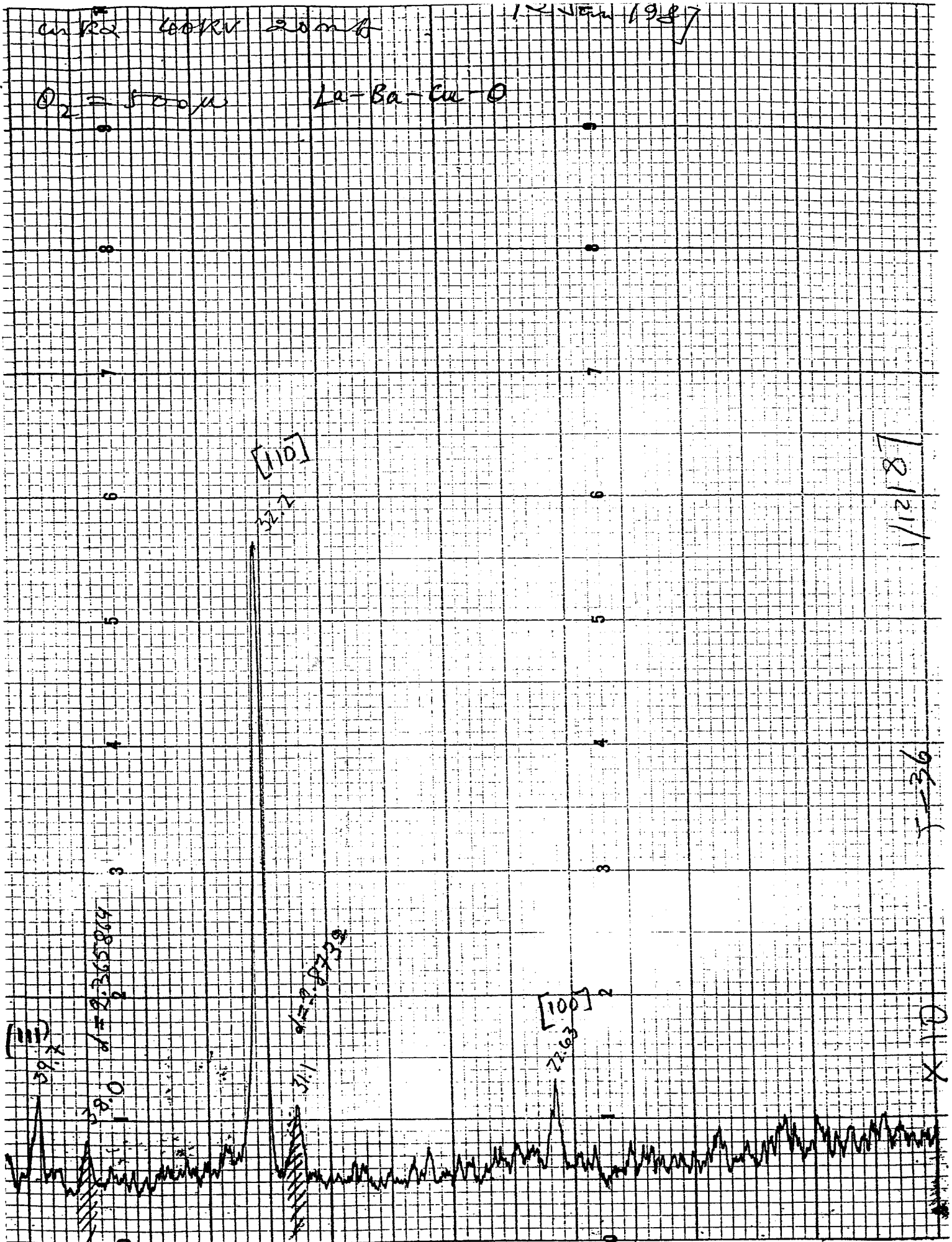


an Rx 400KV 20mA

1-11-1987

$O_2 = 500 \mu$

La-Ba-Cu-O

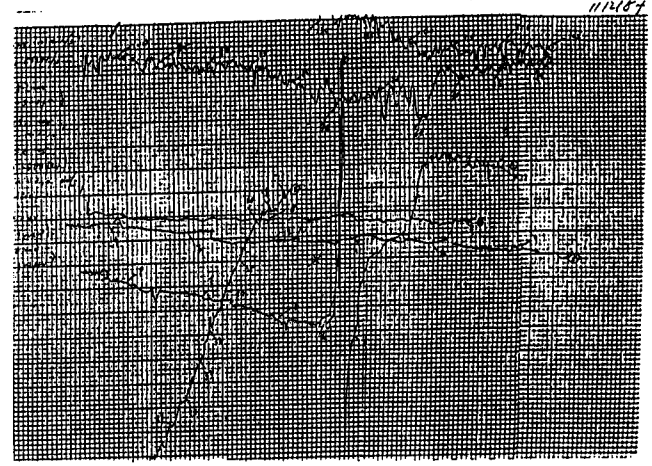
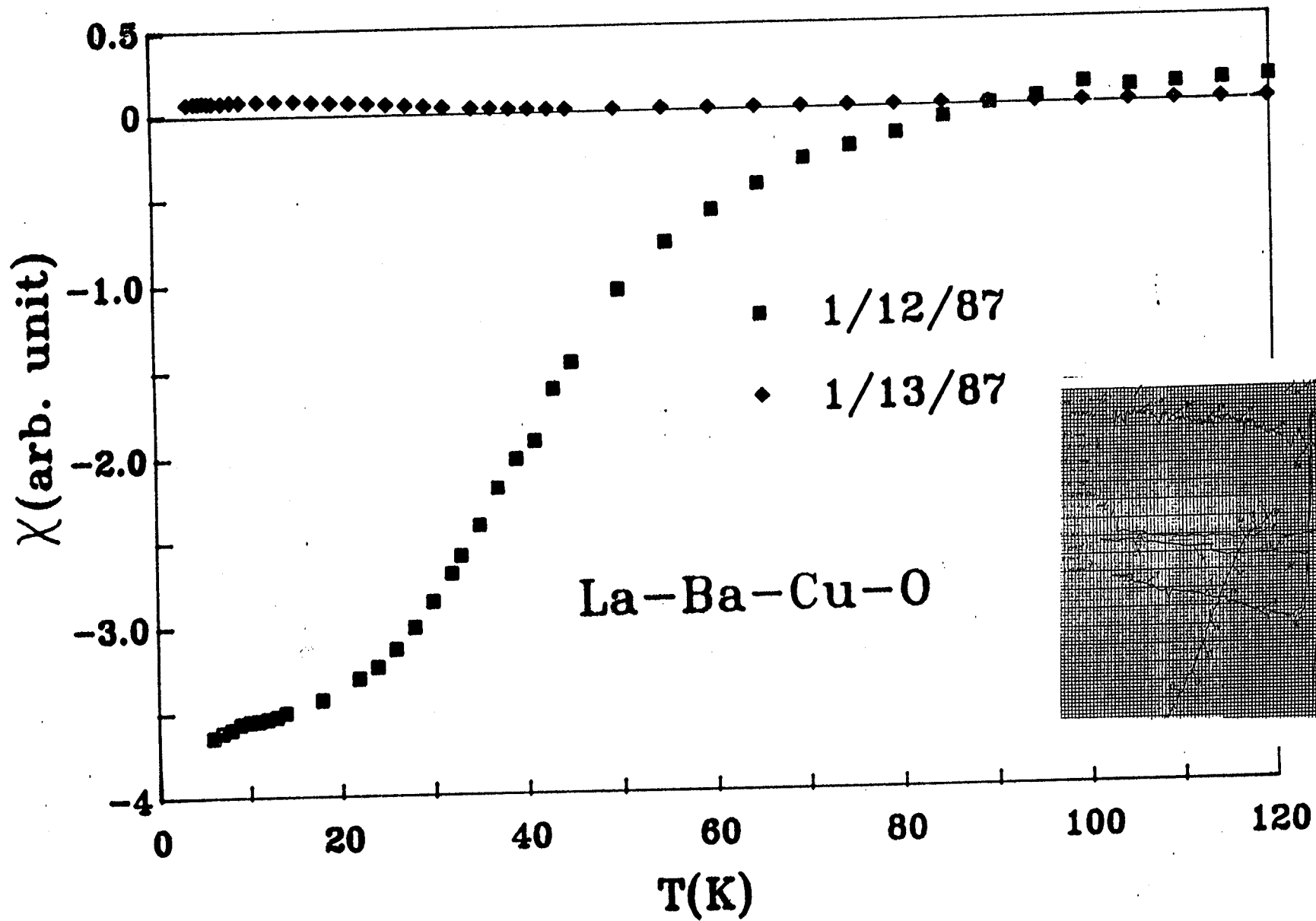


1/12/87

J-36

X 10

HO 30 70 H 001951



很可惜到50K. 我目前对77K充满信心!
刚得到最高转速. 40.2K. 下周!

蔡 绍武
合上
12/14/86

唯幹嫂
敬
送
口
子
以
高
祝
寿
年

Christmas
the warmth and joy
of remembering friends

Dear Wei-Kan & Agnus

Wish Everything In This Year
Happen The Way You Want!

Ching-Wu & May
12/14/86

P.S. Just obtained max. T_c of 40.2K
Very likely 50K next week
I'm now full of confidence about
77K

DC

I = 1mA

11-25-86



① $\begin{cases} x = 60\Omega, 1\mu V \\ y = 0.1\mu V/\mu V \end{cases}$

② $\begin{cases} x = 70\Omega \\ y = -0.7\mu V, 0.1\mu V \end{cases}$

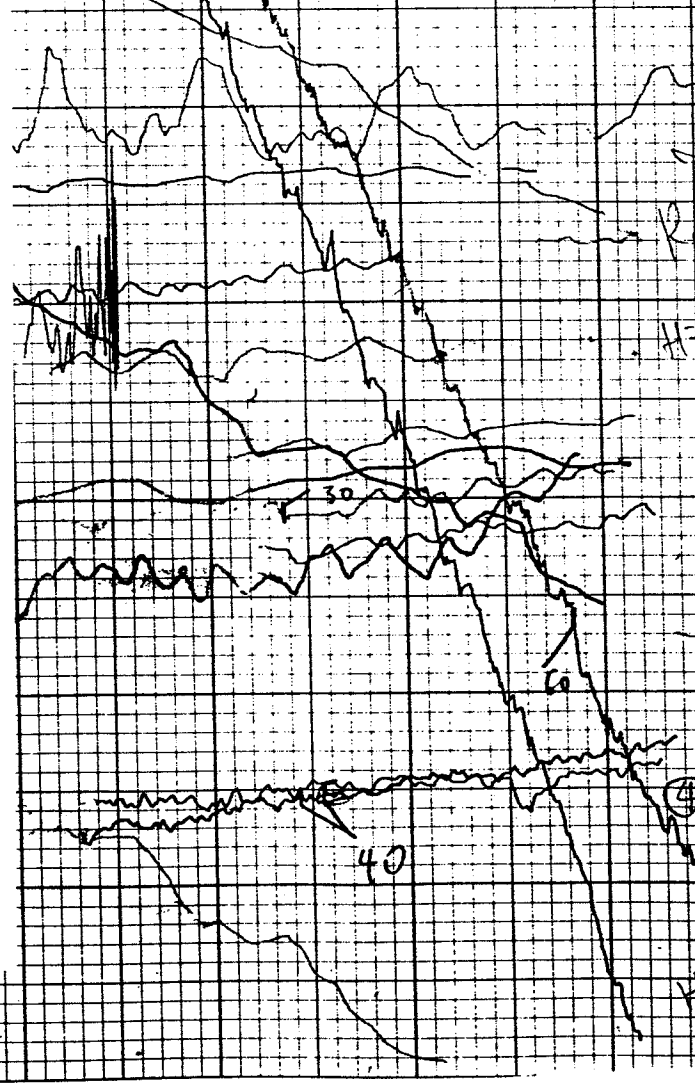
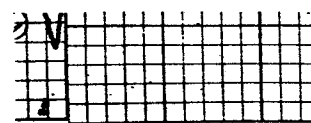
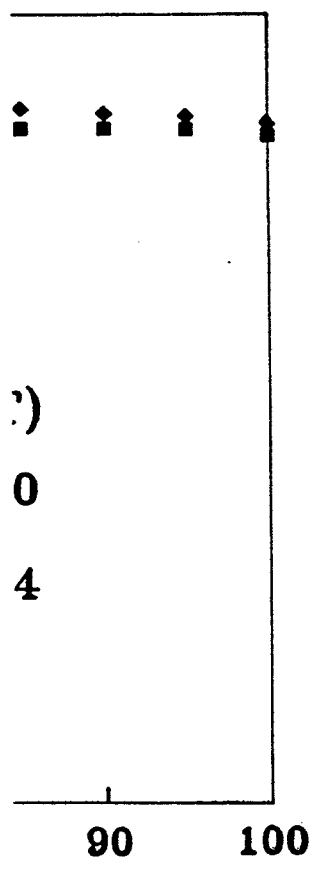
③ $\begin{cases} x = 80\Omega \\ y = 0.7\mu V \end{cases}$

④ $\begin{cases} x = 90\Omega \\ y = 0.7\mu V \end{cases}$

⑤ $\begin{cases} x = 100\Omega, 10\Omega/\mu V \\ y = 0.7\mu V \end{cases}$

⑥ $\begin{cases} x = 200\Omega \\ y = 0.7\mu V \end{cases}$

⑦ $\begin{cases} x = 300\Omega \\ y = 0.7\mu V \end{cases}$



Red ① $\begin{cases} x = 60\Omega, 1\mu V \\ y = 0.1\mu V/\mu V \end{cases}$

② $\begin{cases} x = 70\Omega \\ y = 0.7\mu V \end{cases}$

③

Black ① $\begin{cases} x = 60\Omega, 1\mu V \\ y = 0.9\mu V/\mu V \end{cases}$

② $\begin{cases} x = 70\Omega \\ y = 0 \end{cases}$

③ $\begin{cases} x = 80\Omega \\ y = 0 \end{cases}$



(X=100%)
g=0.2

Black H

(X=60%)
g=0, h=0

(X=100%)
h=0

(X=80%)
h=0

(X=90%)
h=0

(X=100%)
h=0

