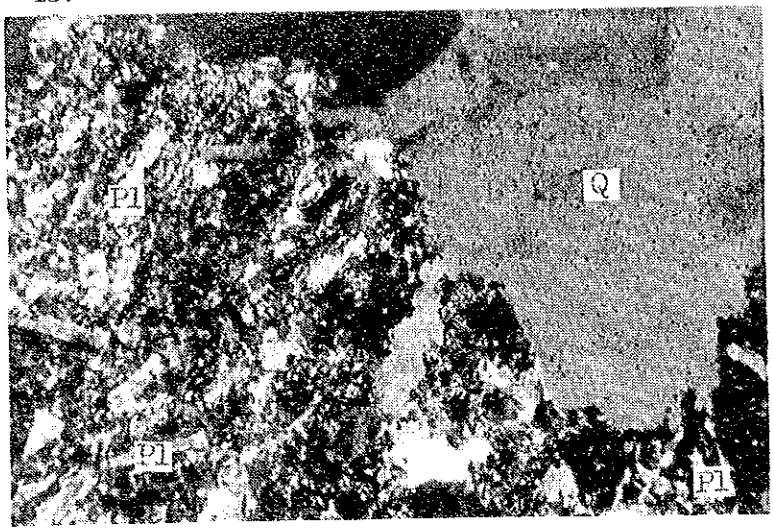
13.



Sample No. G-41

Altered trachyte

(mineralized)

Location : J area

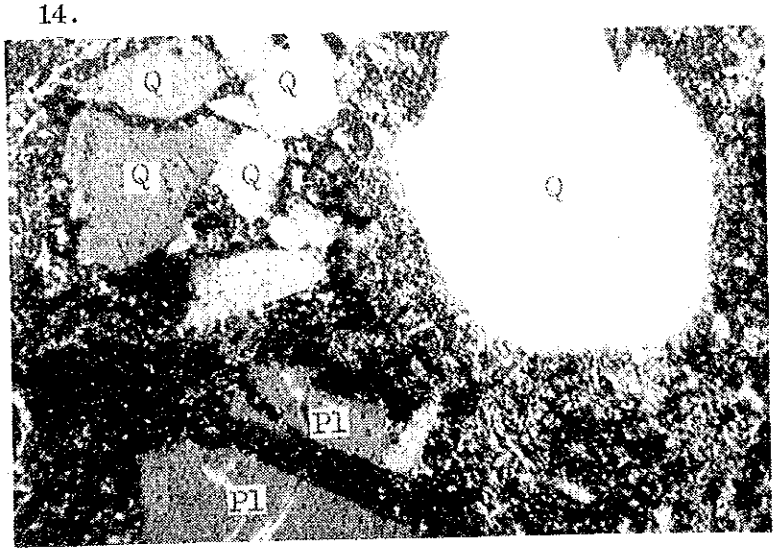
Pl : Plagioclase

Q : Quartz

Crossed nicols

1 mm

14.



Sample No. D-19

Rhyolite

Location : L area

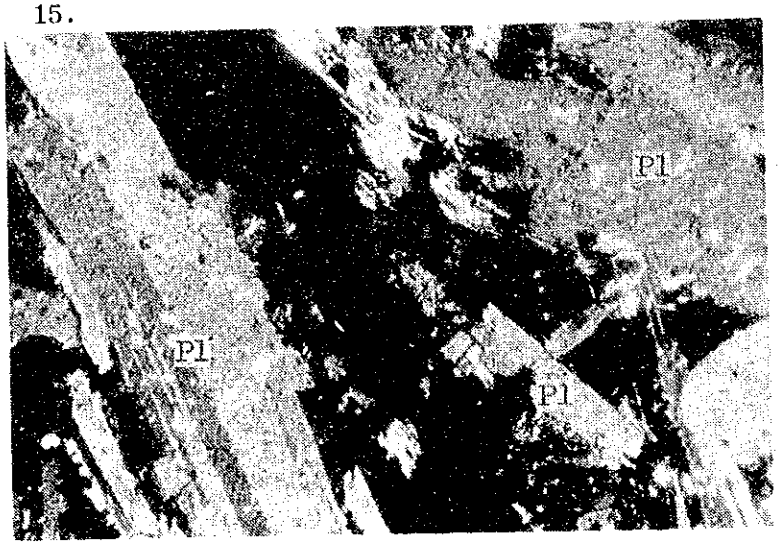
Q : Quartz

Pl : Plagioclase

Crossed nicols

1 mm

15.



Sample No. C-39

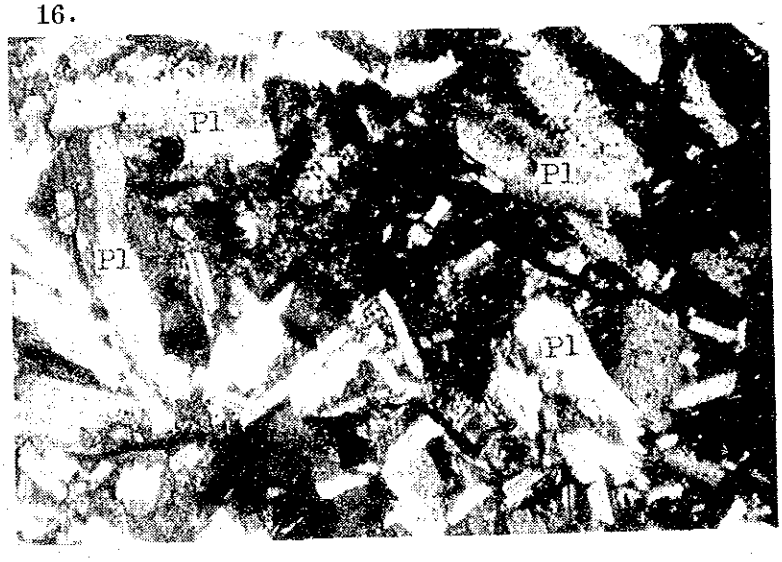
Dolerite

Location : M area

Pl : Plagioclase

Crossed nicols
1 mm

16.



Sample No. C-41

Andesite

Location : M area

Pl : Plagioclase

Crossed nicols
1 mm

Table 1-4 K-Ar Ages on the Rhyolitic Rocks

Sample No.	Analytical Minerals	Sample wt.(g)	K %	$^{40}Ar^{R}/^{40}K$	Air contamination %	Age m.y.
G - 60	whole	1.0058	7.16	0.022032	1.91	344
D - 20	whole	1.0096	3.60	0.020684	2.74	325
E - 129	whole	1.0033	4.46	0.021147	2.07	331
D - 19	whole	0.9656	3.02	0.018193	5.01	288
G - 37	whole	0.9658	3.74	0.024514	3.74	379

$\lambda_e = 0.585 \times 10^{-10} yr^{-1}$

$\lambda_\beta = 4.72 \times 10^{-10} yr^{-1}$

$^{40}K/K = 1.19 \times 10^{-2}$ atom. %

$^{40}Ar^{R}$ = radiogenic argon 40

Table 1-5 Chemical Analysis on Rock Samples

(1)

Chemical composition \ Sample No.	C - 43 WT.(%)	D - 19 WT.(%)	D - 20 WT.(%)	E - 22 WT.(%)	E - 23 WT.(%)	E - 129 WT.(%)	F - 119 WT.(%)	F - 123 WT.(%)
SiO_2	47.15	73.60	73.04	47.80	55.60	66.83	56.65	73.74
TiO_2	1.66	0.24	0.29	1.61	1.05	0.54	1.22	0.21
Al_2O_3	16.94	14.59	13.78	17.10	18.56	15.26	17.58	12.00
Fe_2O_3	6.97	2.00	2.28	8.53	7.41	2.87	9.47	1.18
FeO	1.79	0.52	0.26	1.46	0.42	0.55	0.50	0.33
MnO	0.20	0.01	0.02	0.14	0.09	0.06	0.08	0.02
MgO	9.20	0.37	0.74	9.22	1.28	2.55	2.15	0.69
CaO	3.78	0.54	0.92	2.48	3.39	0.95	1.09	3.16
Na_2O	4.24	4.36	3.47	5.82	5.05	3.71	0.45	1.31
K_2O	1.94	3.51	4.23	0.76	4.45	4.83	7.63	4.93
P_2O_5	0.37	0.07	0.07	0.47	0.24	0.14	0.54	0.06
H_2O+	4.92	0.68	0.85	3.32	1.18	1.26	1.65	0.96
H_2O-	0.33	0.48	0.29	0.38	0.39	0.28	0.38	0.47
Total	99.49	100.98	100.34	99.09	99.11	99.83	99.39	99.06

C. I. P. W. Norm Calculation

Normative minerals \ Sample No.	C - 43		D - 19		D - 20		E - 22		E - 23		E - 129		F - 119		F - 123	
	WT.(%)	MOL.(%)	WT.(%)	MOL.(%)	WT.(%)	MOL.(%)	WT.(%)	MOL.(%)	WT.(%)	MOL.(%)	WT.(%)	MOL.(%)	WT.(%)	MOL.(%)	WT.(%)	MOL.(%)
Q	-	-	33.36	76.71	34.10	76.59	-	-	0.82	4.59	21.70	59.80	21.38	53.26	41.25	81.12
C	1.99	3.99	2.81	3.81	2.01	2.66	3.48	6.88	-	-	2.58	4.19	8.11	11.90	-	-
Or	12.16	4.46	20.78	5.16	25.22	6.11	4.71	1.70	26.96	16.39	29.04	8.64	46.31	12.45	29.84	6.33
Ab	38.07	14.83	36.96	9.74	29.63	7.62	51.62	19.84	43.81	28.26	31.94	10.06	3.91	1.12	11.35	2.56
An	17.33	12.73	2.23	1.11	4.14	2.01	9.68	7.01	15.21	18.49	3.86	2.30	1.93	1.04	12.60	5.35
Ne	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Salic Total	69.56	36.01	96.14	96.51	95.10	94.99	69.49	35.43	86.79	67.74	89.12	85.01	81.64	79.76	95.04	95.37
Di Wo	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.28	1.30
Di En	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.10	1.30
Di Fs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hy En	4.09	8.33	0.92	1.27	1.86	2.50	0.64	1.29	3.27	11.02	6.46	10.66	5.50	8.20	0.66	0.77
Hy Fs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ol Fo	14.17	41.13	-	-	-	-	16.42	47.03	-	-	-	-	-	-	-	-
Ol Fa	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mt	1.71	1.51	1.01	0.61	0.06	0.04	0.52	0.45	-	-	0.41	0.29	-	-	0.53	0.27
Hm	6.22	7.95	1.30	1.13	2.26	1.91	8.58	10.83	7.60	16.10	2.64	2.73	9.73	9.11	0.84	0.62
Il	3.35	4.50	0.46	0.42	0.56	0.49	3.21	4.26	1.11	2.47	1.04	1.14	1.26	1.24	0.41	0.32
Tn	-	-	-	-	-	-	-	-	0.30	0.52	-	-	-	-	-	-
Pf	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ru	-	-	-	-	-	-	-	-	0.37	1.57	-	-	0.59	1.10	-	-
Ap	0.91	0.56	0.16	0.07	0.16	0.07	1.14	0.70	0.57	0.59	0.33	0.17	1.29	0.58	0.14	0.05
Cc	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Femic Total	30.44	63.99	3.86	3.49	4.90	5.01	30.51	64.57	13.21	32.26	10.88	14.99	18.36	20.24	4.96	4.63

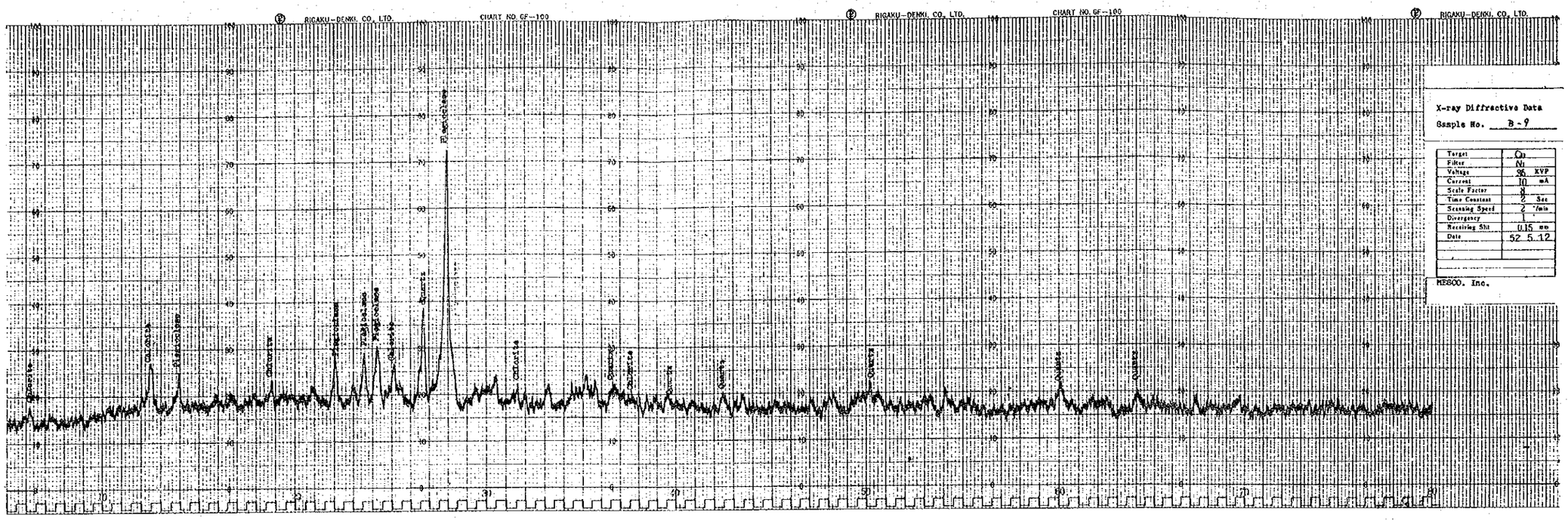
Chemical composition \ Sample No.	G - 32 WT.(%)	G - 37 WT.(%)	G - 60 WT.(%)	Y - 38 WT.(%)	DH No.1 (191.80 m) WT.(%)	DH No.1 (80.00 m) WT.(%)	C - 33 WT.(%)
SiO_2	41.75	72.41	69.47	54.48	44.72	67.44	48.70
TiO_2	1.74	0.23	0.45	1.19	1.69	0.24	2.68
Al_2O_3	15.62	13.22	15.22	13.41	15.01	9.96	15.72
Fe_2O_3	12.83	1.40	1.97	4.34	9.68	0.40	10.17
FeO	1.23	0.31	0.34	3.68	2.51	1.83	2.55
MnO	0.16	0.03	0.01	0.08	0.16	0.09	0.27
MgO	5.87	0.71	1.32	11.31	9.19	3.16	5.75
CaO	7.81	3.14	1.25	3.20	5.91	6.06	4.28
Na_2O	2.84	2.45	0.82	0.51	3.53	0.38	4.56
K_2O	3.84	4.25	8.48	2.79	1.39	4.21	0.98
P_2O_5	0.39	0.07	0.09	0.27	0.37	0.08	0.45
H_2O+	6.53	0.77	1.24	4.78	6.19	6.23	3.30
H_2O-	0.37	0.13	0.26	0.47	0.21	0.22	0.66
Total	100.98	99.12	100.92	100.51	100.58	100.30	100.07

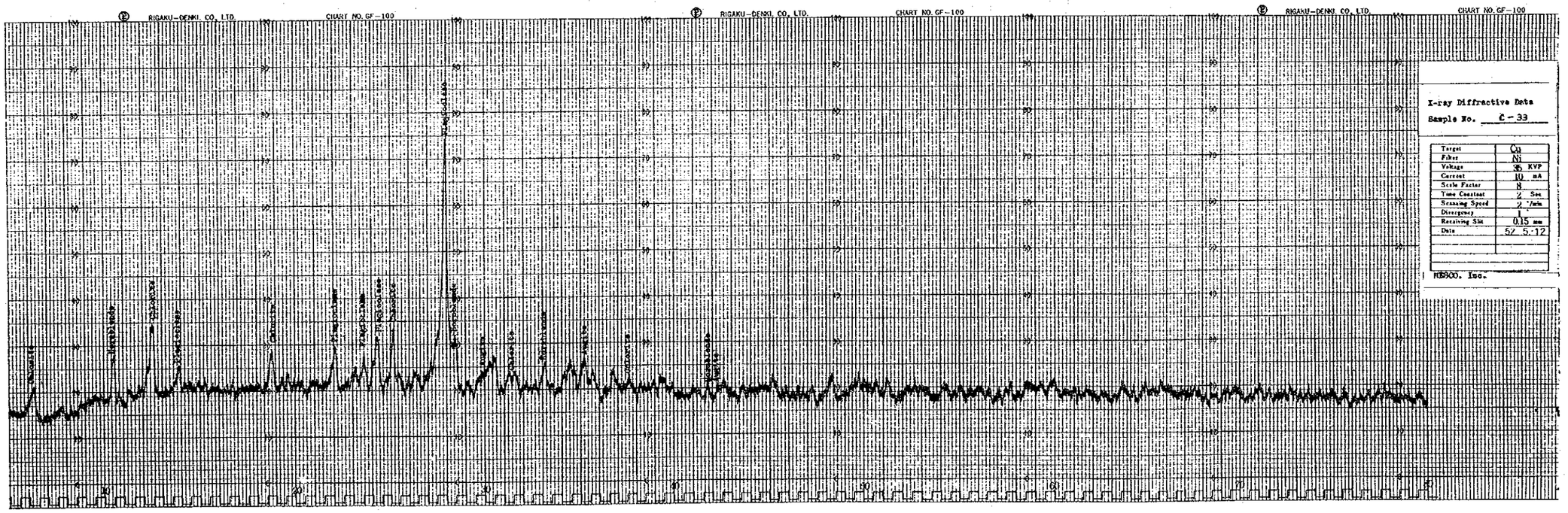
C. I. P. W. Norm Calculation

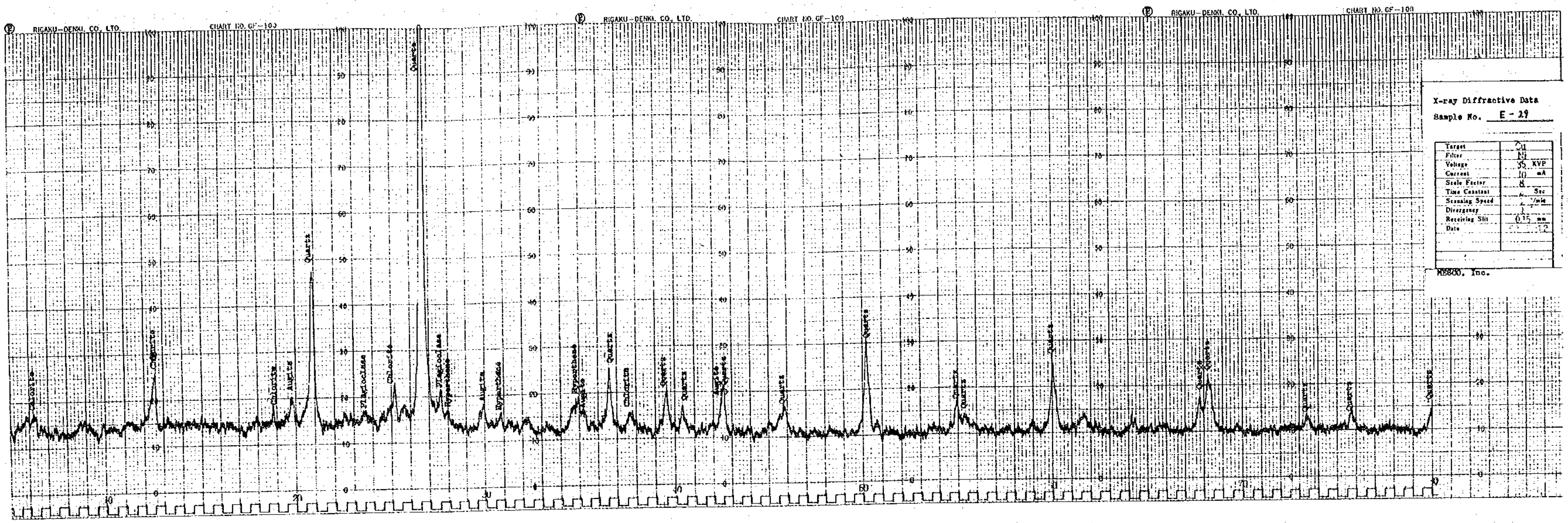
Normative minerals \ Sample No.	G - 32		G - 37		G - 60		Y - 38		DH No.1 (191.80 m)		DH No.1 (80.00 m)		C - 33	
	WT.(%)	MOL.(%)	WT.(%)	MOL.(%)	WT.(%)	MOL.(%)	WT.(%)	MOL.(%)	WT.(%)	MOL.(%)	WT.(%)	MOL.(%)	WT.(%)	MOL.(%)
Q	-	-	35.50	77.47	28.02	69.80	18.13	38.13	-	-	36.16	68.26	2.07	7.58
C	-	-	-	-	2.65	3.89	4.60	5.70	-	-	-	-	0.47	1.04
Or	24.12	8.77	25.57	6.02	50.40	13.55	17.31	3.93	8.72	3.07	26.51	5.40	6.03	2.42
Ab	8.50	3.28	21.11	5.28	6.98	1.99	4.53	1.09	31.71	11.85	3.43	0.74	40.14	17.12
An	19.70	14.33	12.75	6.01	5.65	3.04	14.81	6.73	22.30	15.71	13.89	5.66	19.03	15.30
Ne	9.23	6.58	-	-	-	-	-	-	-	-	-	-	-	-
Salic Total	61.55	32.96	94.92	94.78	93.70	92.27	59.37	55.58	62.74	30.62	79.99	80.06	67.71	43.45
Di Wo	7.54	13.14	1.10	1.25	-	-	-	-	2.61	4.41	7.34	7.17	-	-
Di En	6.52	13.14	0.95	1.25	-	-	-	-	2.26	4.41	4.99	5.64	-	-
Di Fs	-	-	-	-	-	-	-	-	-	-	1.78	1.53	-	-
Hy En	-	-	0.85	1.11	3.31	4.93	29.57	37.22	3.69	7.19	3.39	3.83	14.90	33.19
Hy Fs	-	-	-	-	-	-	1.42	1.36	-	-	1.21	1.04	-	-
Ol Fo	6.32	18.19	-	-	-	-	-	-	12.86	35.82	-	-	-	-
Ol Fa	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mt	-	-	0.44	0.25	-	-	6.61	3.61	4.01	3.39	0.62	0.30	1.39	1.34
Hm	13.64	17.29	1.12	0.92	1.98	1.86	-	-	7.51	9.21	-	-	9.63	13.48
Il	3.13	4.17	0.44	0.38	0.74	0.73	2.37	1.98	3.41	4.40	0.49	0.36	5.30	7.80
Tn	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pf	0.35	0.52	-	-	-	-	-	-	-	-	-	-	-	-
Ru	-	-	-	-	0.06	0.11	-	-	-	-	-	-	-	-
Ap	0.96	0.59	0.17	0.07	0.21	0.10	0.66	0.25	0.91	0.54	0.20	0.07	1.08	0.74
Cc	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Femic Total	38.45	67.04	5.08	5.22	6.30	7.73	40.63	44.42	37.26	69.38	20.01	19.94	32.29	56.55

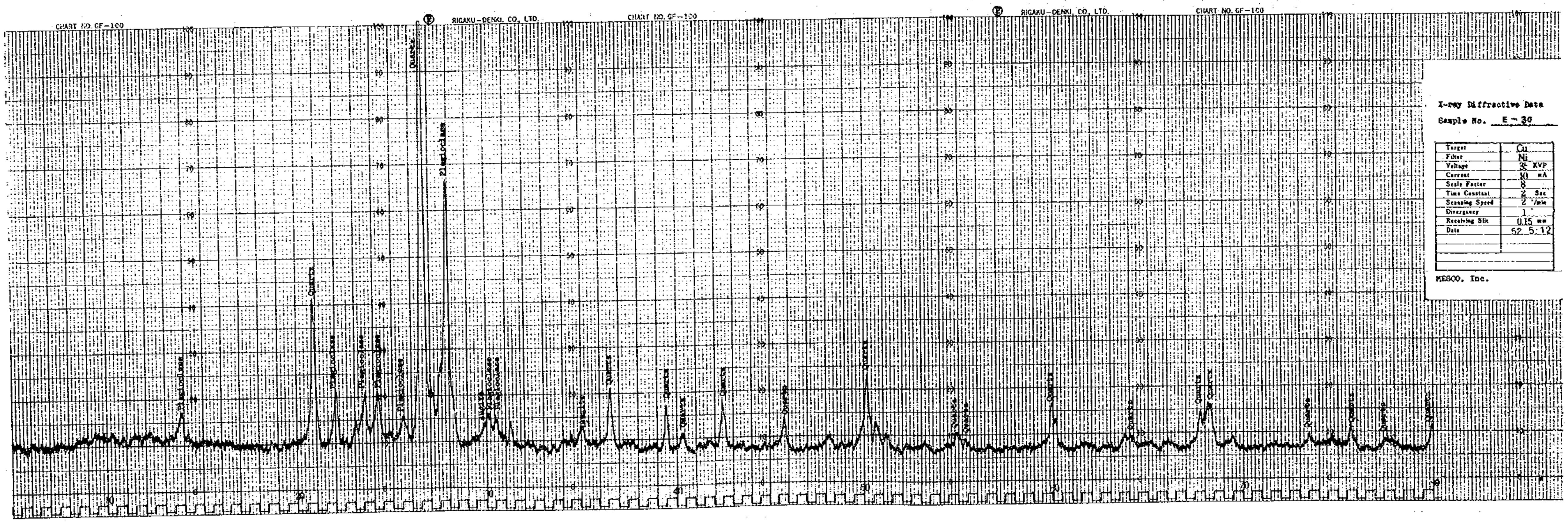
Table I-6 Results and Charts of X-ray Diffractive Analysis

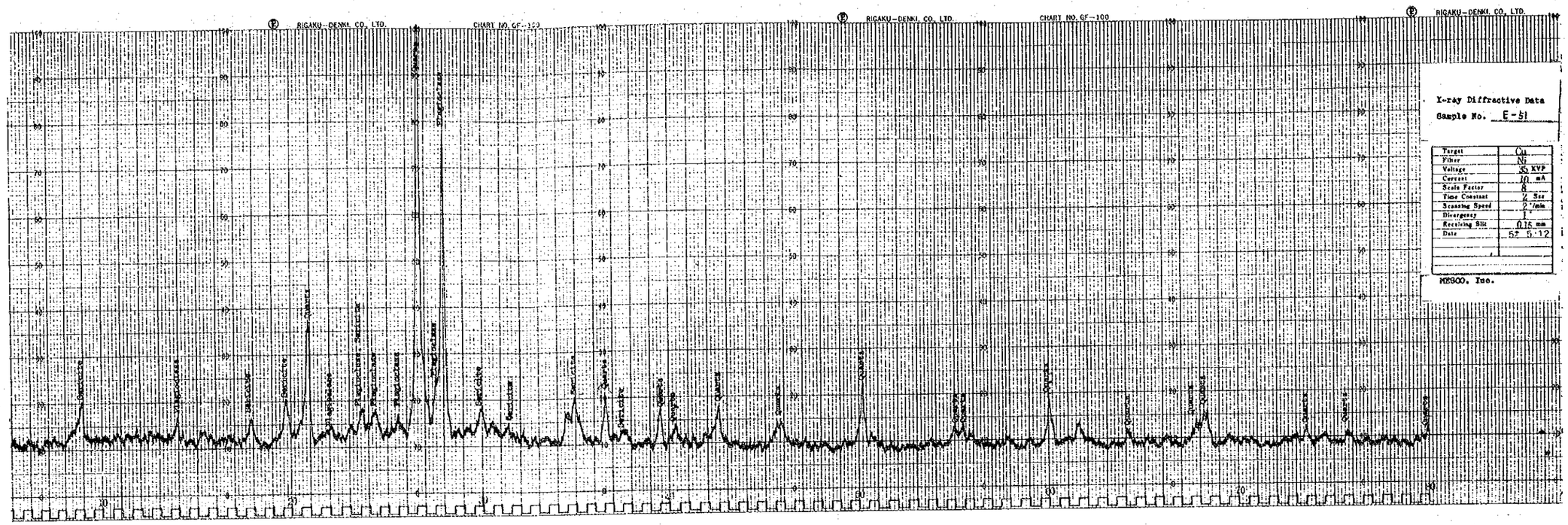
Sample No.	Minerals
B-9	Plagioclase > Quartz > Chlorite
C-33	Plagioclase > Chlorite > Hypersthene ≫ Augite
E-29	Quartz ≫ Chlorite > Plagioclase > Hypersthene > Augite
E-30	Quartz > Plagioclase ≫ Augite
E-51	Quartz > Plagioclase > Sericite
E-60	Quartz ≫ Plagioclase > Sericite
E-62	Quartz ≫ Dolomite > Sericite > Calcite > Plagioclase
E-74	Quartz ≫ Plagioclase > Sericite > Augite
E-76	Quartz ≫ Sericite > Plagioclase
E-78	Quartz > Chlorite > Sericite
E-99	Quartz > Plagioclase > Hypersthene
E-122	Quartz ≫ Sericite > Plagioclase
F-108	Quartz > Plagioclase > Chlorite
F-146	Quartz ≫ Plagioclase > Chlorite > Sericite
G-35	Dolomite > Quartz > Calcite > Chlorite
G-43	Quartz > Sericite > Plagioclase ≫ Calcite
G-51	Quartz ≫ Plagioclase > Chlorite > Sericite
G-52	Quartz ≫ Sericite > Plagioclase > Chlorite
Y-38	Quartz ≫ Chlorite > Sericite > Plagioclase ≫ Augite
Y-43	Calcite > Quartz
Y-45	Plagioclase > Chlorite > Quartz

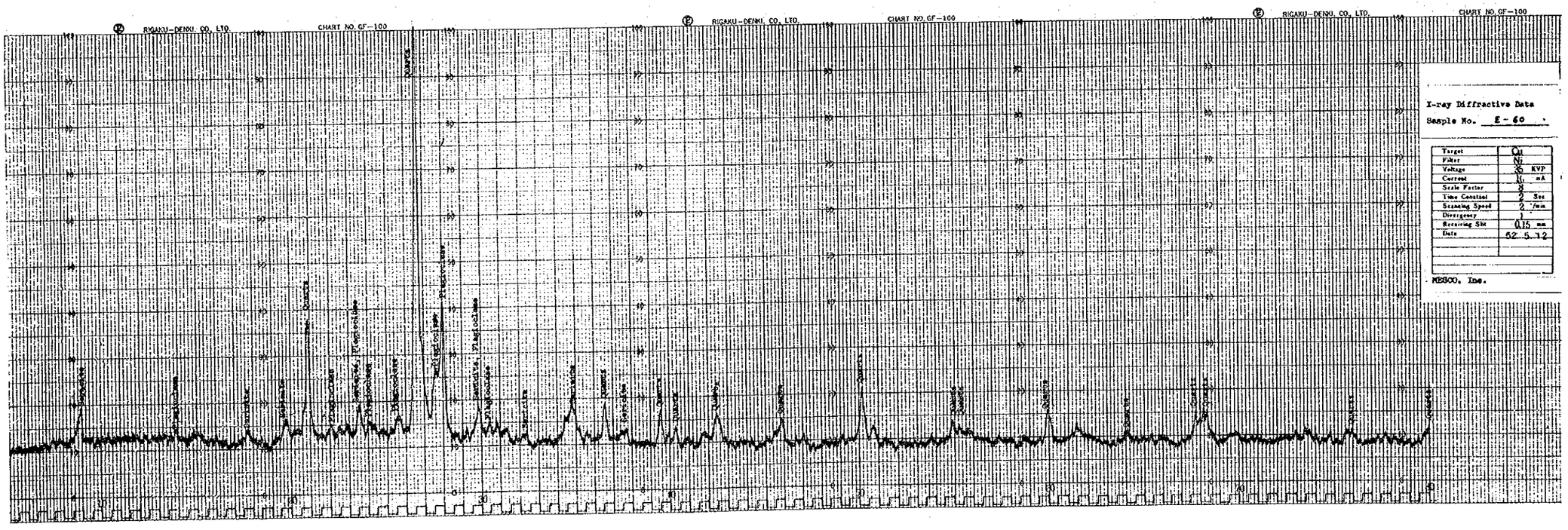

RIGAKU-DENKI CO. LTD.
CHART NO. GF-100
Plagioclase
Calcite
Plagioclase
Chlorite
Plagioclase
Plagioclase
Plagioclase
Quartz
Plagioclase
Calcite
Chlorite
Quartz
Quartz
Quartz
Quartz
Quartz
Quartz
Quartz
Quartz
X-ray Diffractive Data
Sample No. B-9
Target Cu
Filter Ni
Voltage 35 KVP
Current 10 mA
Scale Factor 8
Time Constant 2 Sec
Scanning Speed 2 °/min
Divergency 1 °
Receiving Slit 0.15 mm
Date 52 5.12
MEGGO. Inc.

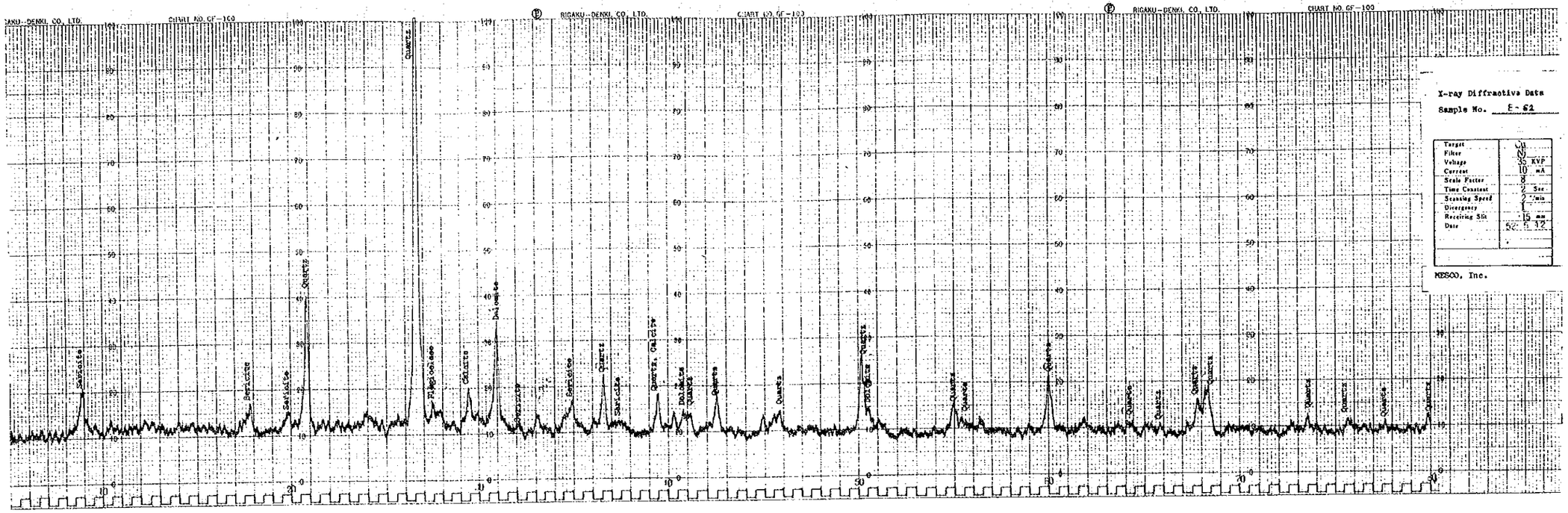

RIGAKU-DENKI CO. LTD.
CHART NO. GF-100
Plagioclase
Plagioclase
Plagioclase
Plagioclase
Plagioclase
Plagioclase
Plagioclase
Plagioclase
Plagioclase
Plagioclase
Plagioclase
Plagioclase
Plagioclase
Plagioclase
Plagioclase
Plagioclase
Plagioclase
X-ray Diffractive Data
Sample No. C-33
Target Cu
Filter Ni
Voltage 35 KVP
Current 10 mA
Scale Factor 8
Time Constant 2 Sec
Scanning Speed 2 °/min
Divergency 1 °
Receiving Slit 0.15 mm
Date 52 5.12
MEGGO. Inc.

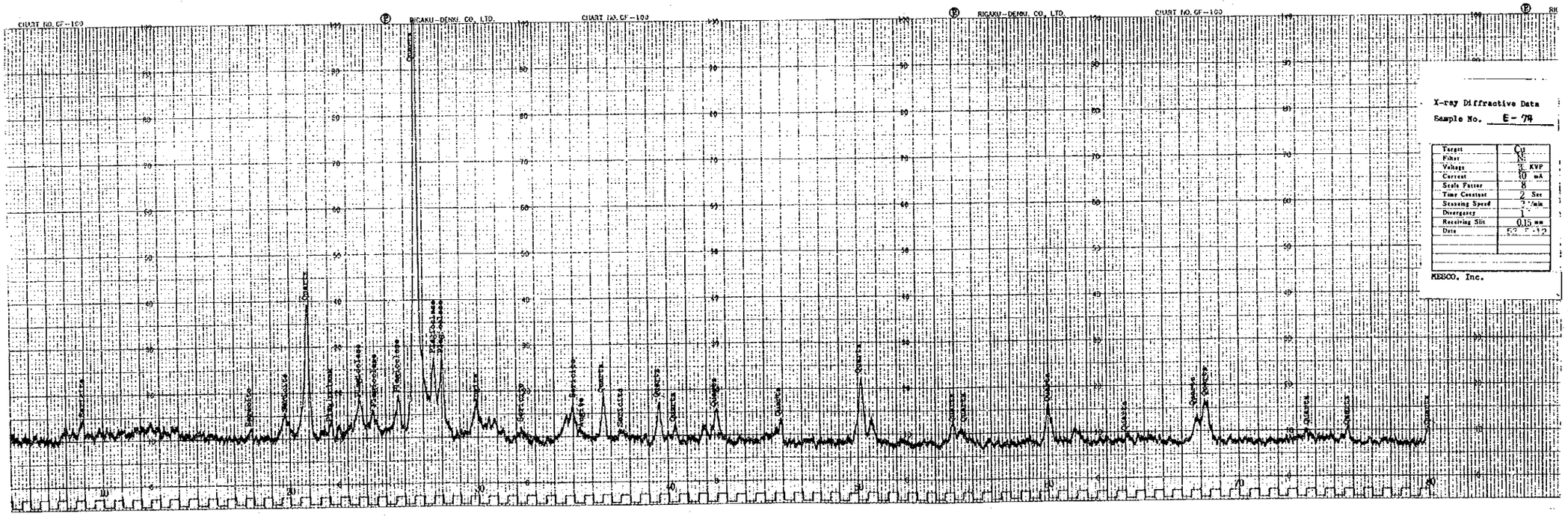

RIGAKU-DENKI CO., LTD.
CHART NO. GF-100
X-ray Diffractive Data
Sample No. E - 29
Target Cu
Filter Ni
Voltage 35 KVP
Current 10 mA
Scale Factor 8
Time Constant Sec
Scanning Speed °/min
Divergency 1
Receiving Slit 0.15 mm
Date
MESCO, Inc.
Chlorite
Chlorite
Augite
Quartz
Plagioclase
Chlorite
Hypersthene
Augite
Quartz
Quartz

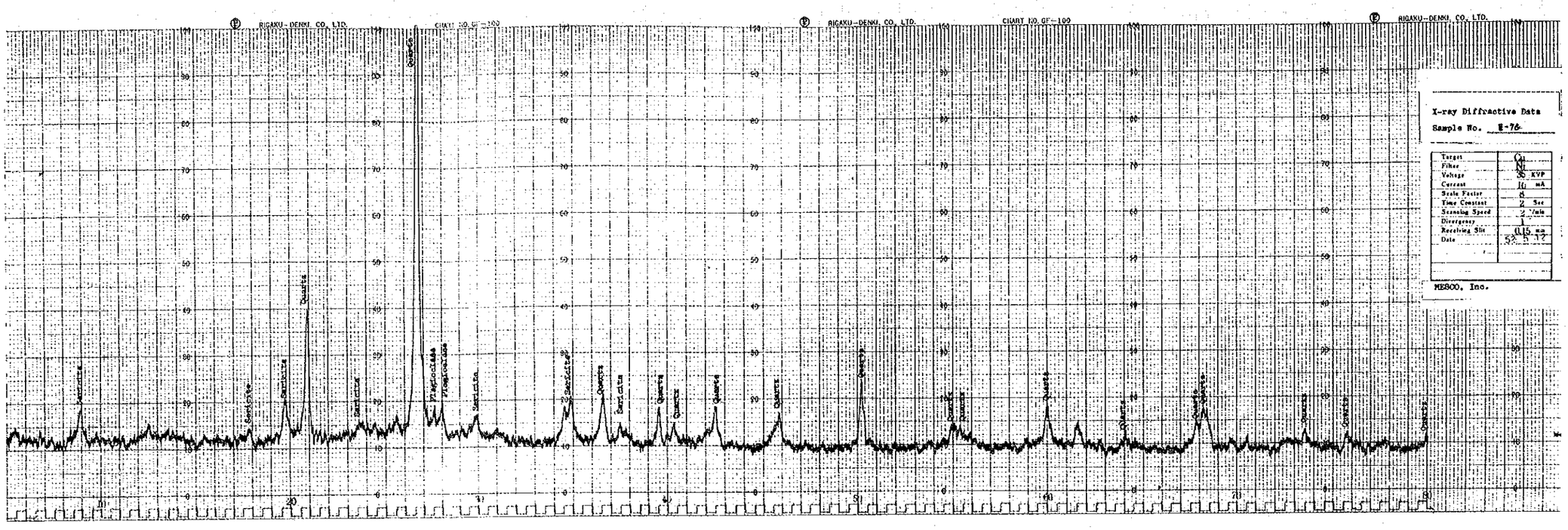

RIGAKU-DENKI CO., LTD.
CHART NO. GF-100
X-ray Diffractive Data
Sample No. E - 30
Target Cu
Filter Ni
Voltage 35 KVP
Current 30 mA
Scale Factor 8
Time Constant 2 Sec
Scanning Speed 2 °/min
Divergency 1
Receiving Slit 0.15 mm
Date 52. 5. 12
MESCO, Inc.
Plagioclase
Quartz
Augite
Quartz

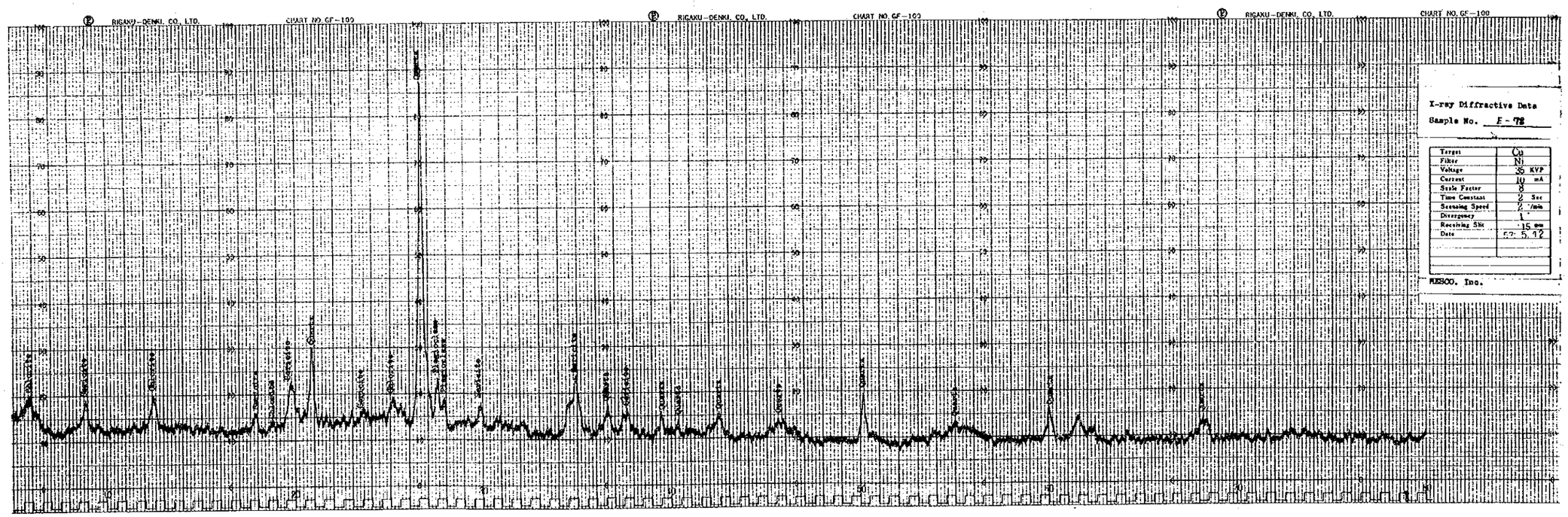

RIGAKU-DENKI CO. LTD.
CHART NO. GF-100
X-ray Diffractive Data
Sample No. E-51
Target Cu
Filter Ni
Voltage 35 KVP
Current 10 mA
Scale Factor 8
Time Constant 2 Sec
Scanning Speed 2 °/min
Divergency 1°
Receiving Slit 0.15 mm
Date 52 5 12
MESCO, Inc.


RIGAKU-DENKI CO. LTD.
CHART NO. GF-100
X-ray Diffractive Data
Sample No. E-60
Target Cu
Filter Ni
Voltage 35 KVP
Current 10 mA
Scale Factor 8
Time Constant 2 Sec
Scanning Speed 2 °/min
Divergency 1°
Receiving Slit 0.15 mm
Date 52 5 12
MESCO, Inc.

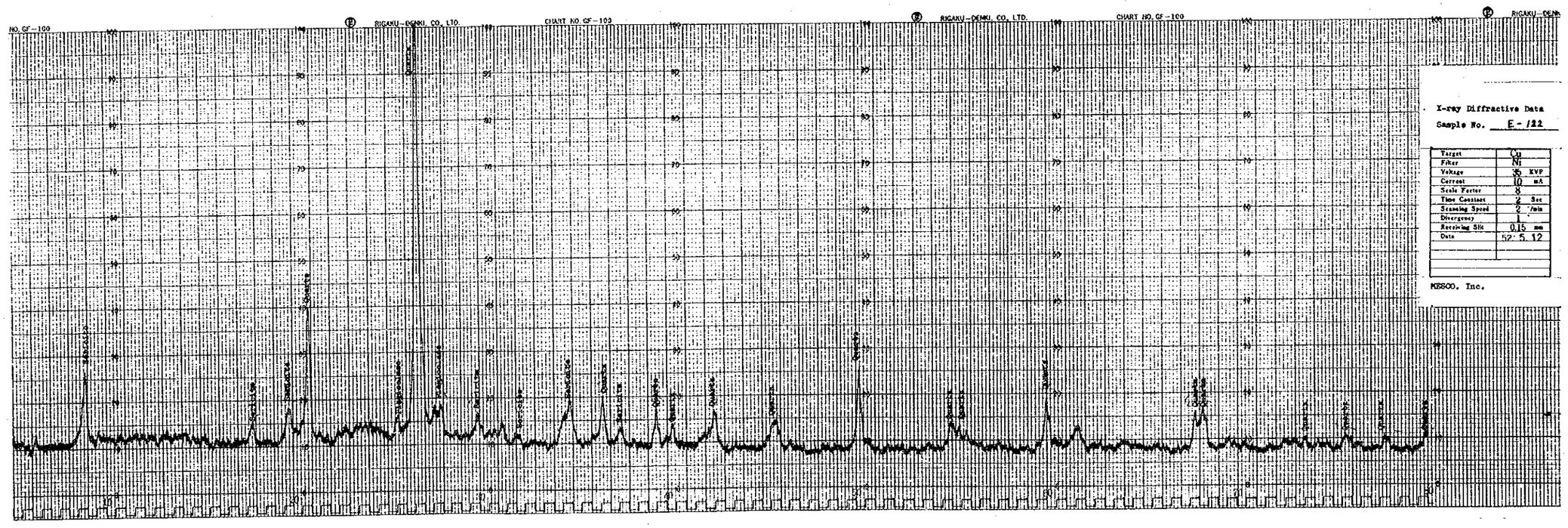

RIGAKU-DENKI CO. LTD.
CHART NO. GF-100
Quartz
Kaolinite
Calcite
Dolomite
Pyrophyllite
Montmorillonite
X-ray Diffractive Data
Sample No. E-62
Target Cu
Filter Ni
Voltage 35 KVP
Current 10 mA
Scale Factor 8
Time Constant 2 Sec
Scanning Speed 2°/min
Divergency 1°
Receiving Slit 0.15 mm
Date 82. 5. 12
MESCO, Inc.

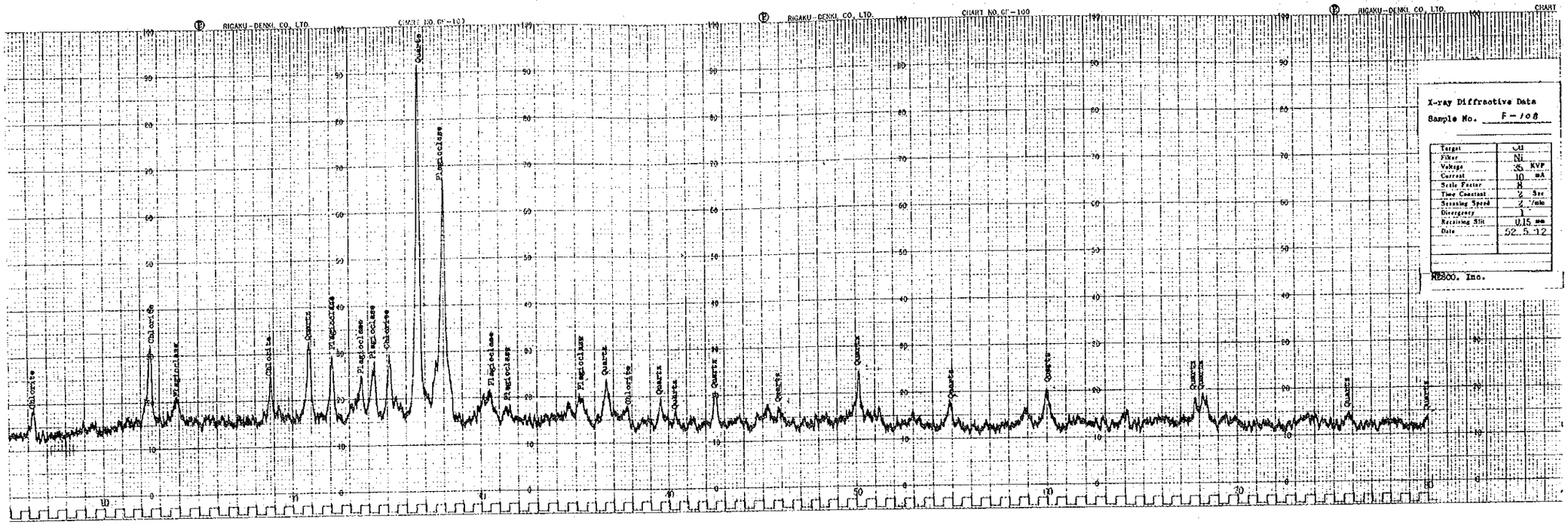

RIGAKU-DENKI CO. LTD.
CHART NO. GF-100
Quartz
Kaolinite
Calcite
Dolomite
Pyrophyllite
Montmorillonite
X-ray Diffractive Data
Sample No. E-74
Target Cu
Filter Ni
Voltage 35 KVP
Current 10 mA
Scale Factor 8
Time Constant 2 Sec
Scanning Speed 2°/min
Divergency 1°
Receiving Slit 0.15 mm
Date 82. 5. 12
MESCO, Inc.

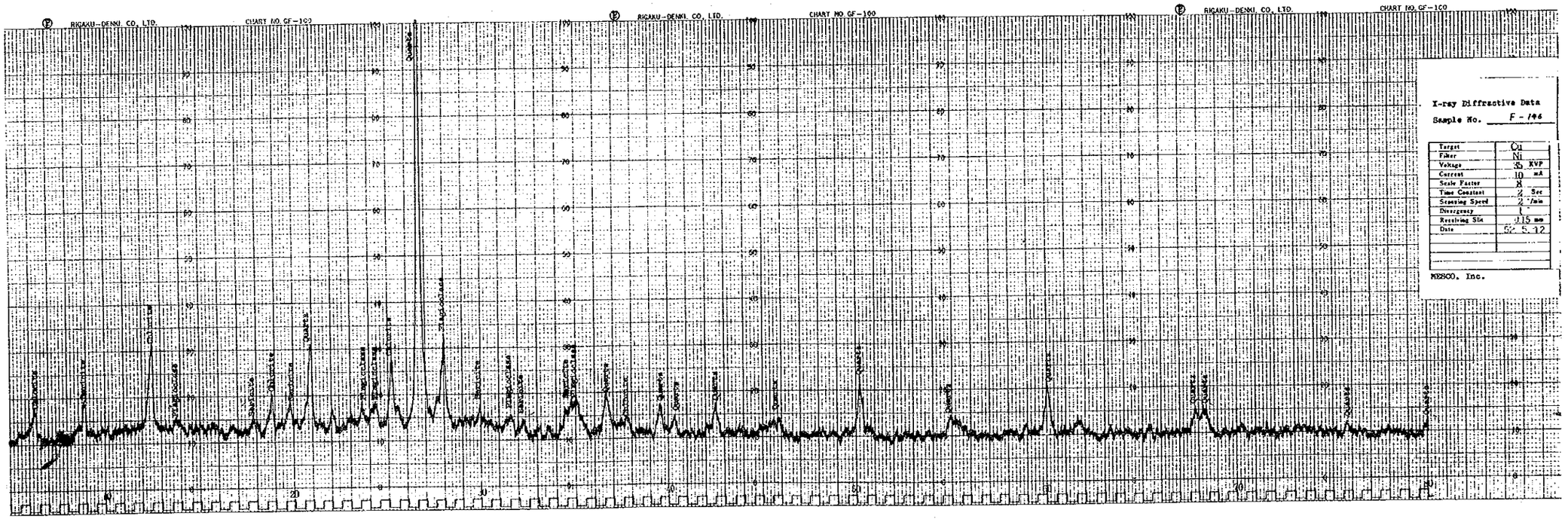

RIGAKU-DENKI CO. LTD.
CHART NO. GF-100
Quartz
Plagioclase
Pyroxene
X-ray Diffractive Data
Sample No. E-76
Target Cu
Filter Ni
Voltage 35 KVP
Current 10 mA
Scale Factor 8
Time Constant 2 Sec
Scanning Speed 2 °/min
Divergency 1°
Receiving Slit 0.15 mm
Date 53. 5. 12
MESCO. Inc.

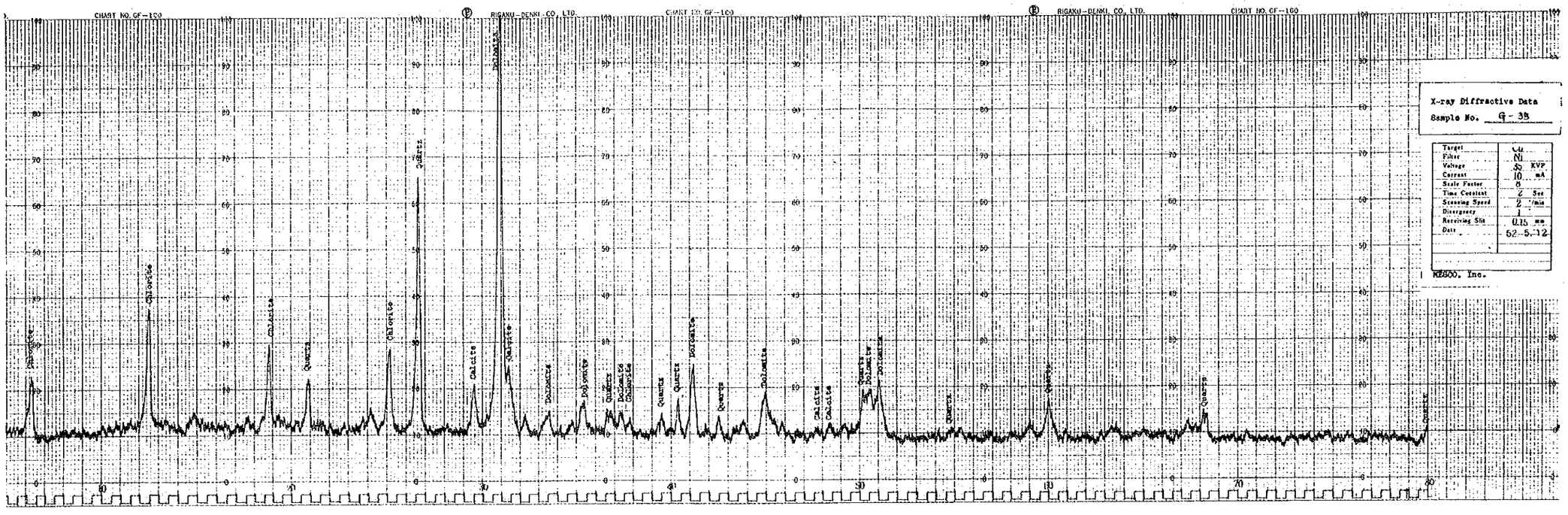

RIGAKU-DENKI CO. LTD.
CHART NO. GF-100
Quartz
Plagioclase
Pyroxene
X-ray Diffractive Data
Sample No. E-78
Target Cu
Filter Ni
Voltage 35 KVP
Current 10 mA
Scale Factor 8
Time Constant 2 Sec
Scanning Speed 2 °/min
Divergency 1°
Receiving Slit 0.15 mm
Date 53. 5. 12
MESCO. Inc.

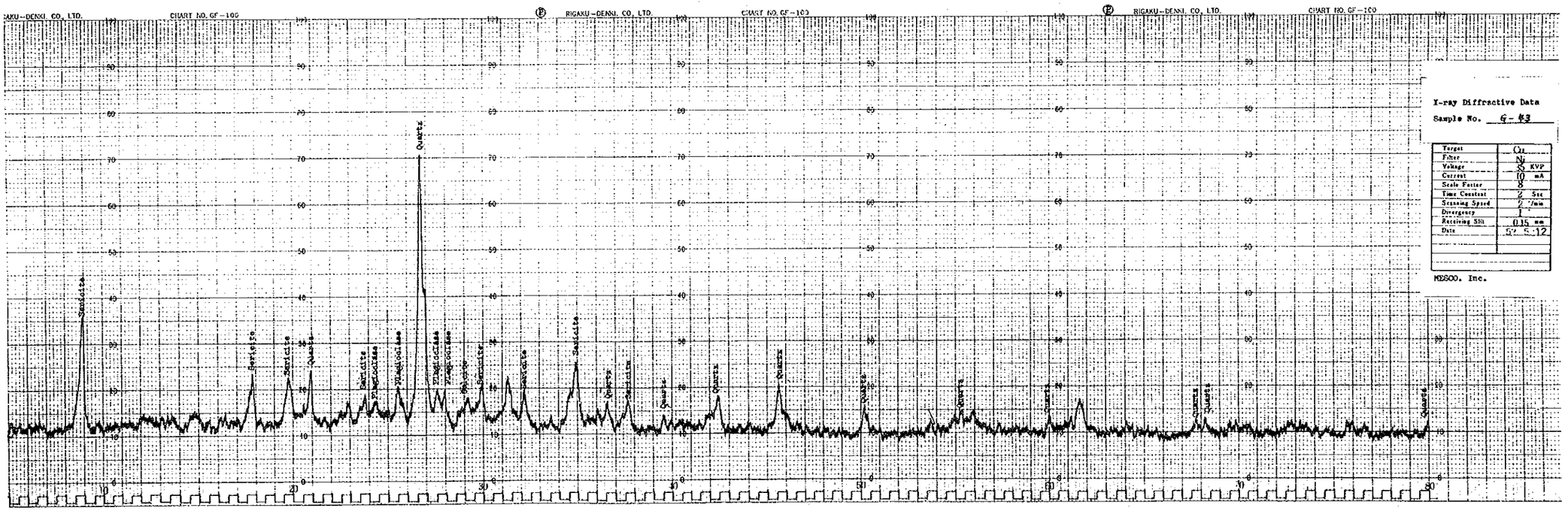

RIGAKU-DENKI CO., LTD.
CHART NO. GF-100
X-ray Diffractive Data
Sample No. E-11
Target Cu
Filter Ni
Voltage 35 KVP
Current 10 mA
Scale Factor 8
Time Constant 2 Sec
Scanning Speed 2 °/min
Divergency 1°
Receiving Slit 0.15 mm
Date 52. 5. 12
MESCO. Inc.
Plagioclase
Quartz
Hypersthene

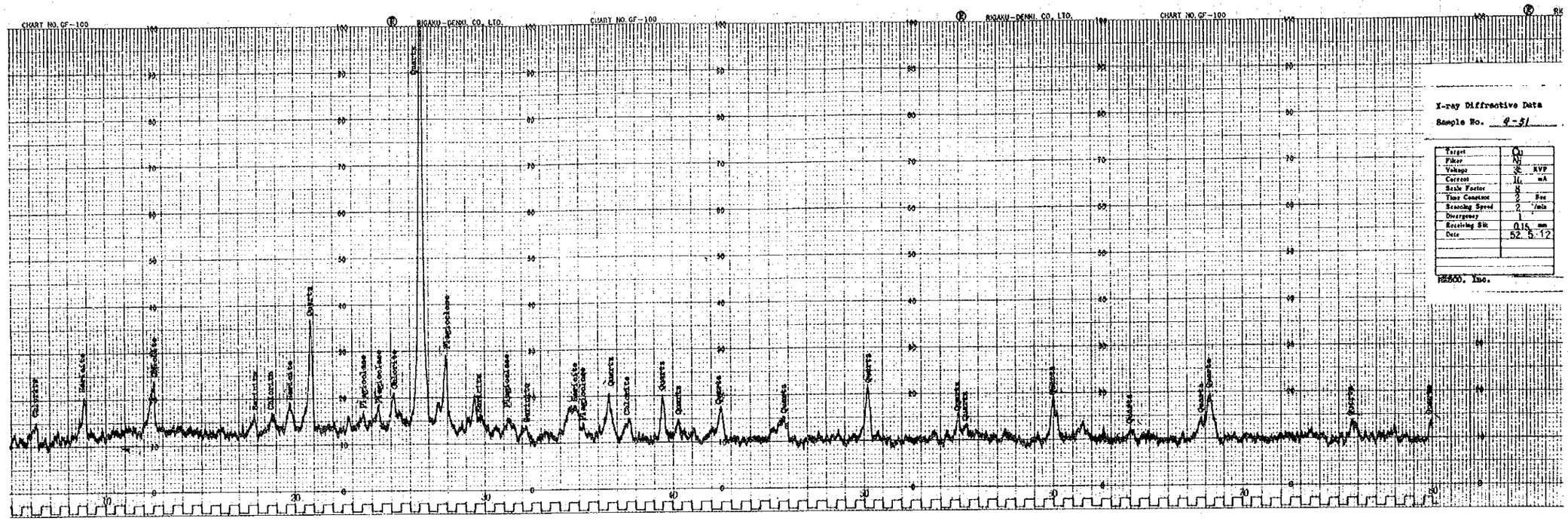

RIGAKU-DENKI CO., LTD.
CHART NO. GF-100
X-ray Diffractive Data
Sample No. E-22
Target Cu
Filter Ni
Voltage 35 KVP
Current 10 mA
Scale Factor 8
Time Constant 2 Sec
Scanning Speed 2 °/min
Divergency 1°
Receiving Slit 0.15 mm
Date 52. 5. 12
MESCO. Inc.
Quartz
Plagioclase


RIGAKU-DENKI CO. LTD.
CHART NO. GF-100
Chlorite
Plagioclase
Quartz
X-ray Diffractive Data
Sample No. F-108
Target Cu
Filter Ni
Voltage 35 KVP
Current 10 mA
Scale Factor 8
Time Constant 2 Sec
Scanning Speed 2 °/min
Divergency 1°
Receiving Slit 0.15 mm
Date 82.5.12
MEISEI. Inc.

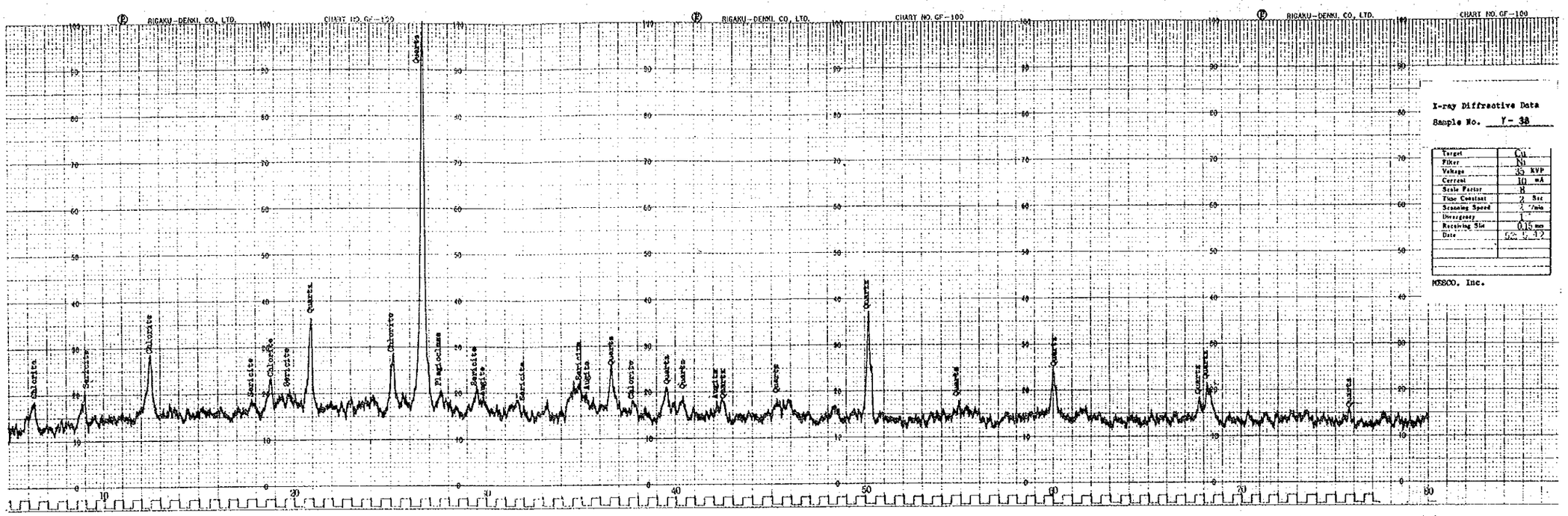

RIGAKU-DENKI CO. LTD.
CHART NO. GF-100
Chlorite
Plagioclase
Quartz
X-ray Diffractive Data
Sample No. F-106
Target Cu
Filter Ni
Voltage 35 KVP
Current 10 mA
Scale Factor 8
Time Constant 2 Sec
Scanning Speed 2 °/min
Divergency 1°
Receiving Slit 0.15 mm
Date 82.5.12
MEISEI. Inc.

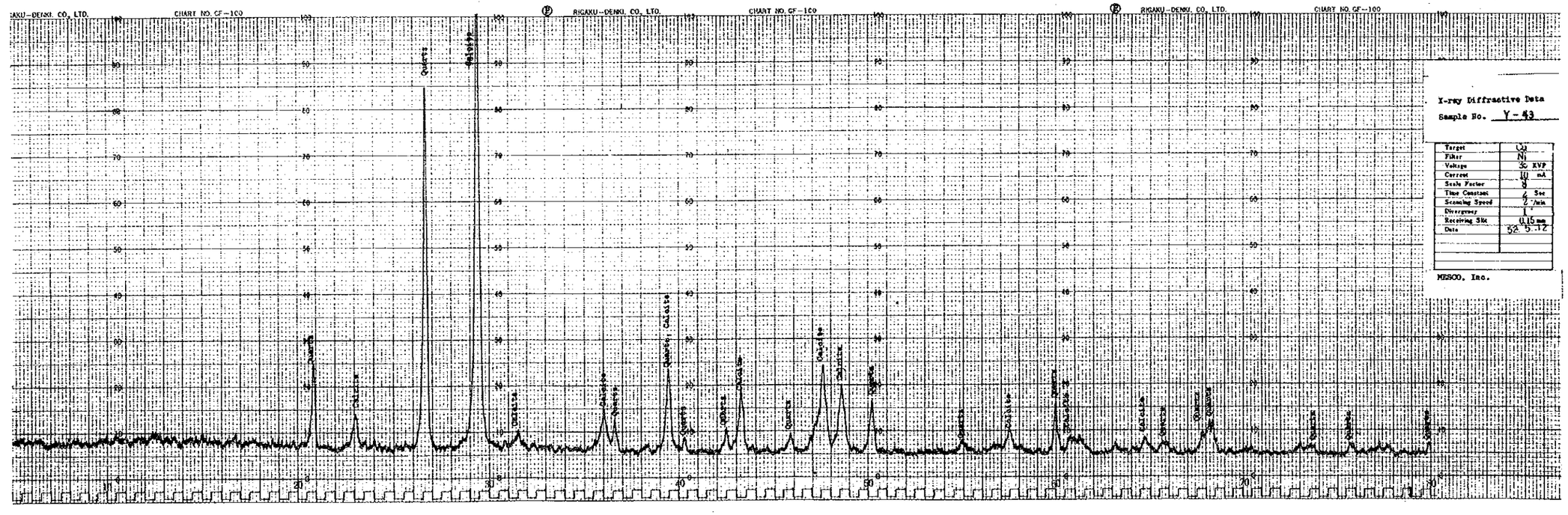

RIGAKU-DENKI CO. LTD.
CHART NO. GF-1C0
Chlorite
Quartz
Calcite
Dolomite
X-ray Diffractive Data
Sample No. G-38
Target Cu
Filter Ni
Voltage 35 KVP
Current 10 mA
Scale Factor 8
Time Constant 2 Sec
Scanning Speed 2 °/min
Divergency 1 °
Receiving Slit 0.15 mm
Date 52.5.12
MESCO. Inc.


RIGAKU-DENKI CO. LTD.
CHART NO. GF-1C0
Sericite
Quartz
X-ray Diffractive Data
Sample No. G-43
Target Cu
Filter Ni
Voltage 35 KVP
Current 10 mA
Scale Factor 8
Time Constant 2 Sec
Scanning Speed 2 °/min
Divergency 1 °
Receiving Slit 0.15 mm
Date 52.5.12
MESCO. Inc.


RIGAKU-DENKI CO. LTD.
CHART NO. GF-100
X-ray Diffractive Data
Sample No. 9-51
Target Cu
Filter Ni
Voltage 35 KVP
Current 10 mA
Scale Factor 8
Time Constant 2 Sec
Scanning Speed 2 °/min
Divergency 1 °
Receiving Slit 0.15 mm
Date 52. 5. 12
RIGAKU-DENKI CO. LTD.
Quartz
Kaolinite
Chlorite
Plagioclase
Orthoclase
Hornblende
Calcite


RIGAKU-DENKI CO. LTD.
CHART NO. GF-100
X-ray Diffractive Data
Sample No. 9-52
Target Cu
Filter Ni
Voltage 35 KVP
Current 10 mA
Scale Factor 8
Time Constant 2 Sec
Scanning Speed 2 °/min
Divergency 1 °
Receiving Slit 0.15 mm
Date 54. 5. 12
RIGAKU-DENKI CO. LTD.
Quartz
Kaolinite
Chlorite
Plagioclase
Orthoclase
Hornblende
Calcite


RIGAKU-DENKI CO, LTD.
CHART NO. GF-100
Chlorite
Sericite
Chlorite
Sericite
Chlorite
Sericite
Quartz
Chlorite
Quartz
Plagioclase
Sericite
Albite
Sericite
Sericite
Albite
Quartz
Chlorite
Quartz
Quartz
Albite
Quartz
Quartz
Quartz
Quartz
Quartz
Quartz
Quartz
X-ray Diffractive Data
Sample No. Y-38
Target Cu
Filter Ni
Voltage 35 KVP
Current 10 mA
Scale Factor 8
Time Constant 2 Sec
Scanning Speed 2 °/min
Divergency 1°
Receiving Slit 0.15 mm
Date 52.5.12
MESCO, Inc.


RIGAKU-DENKI CO, LTD.
CHART NO. GF-100
Quartz
Sericite
Quartz
Calcite
Calcite
Quartz
Quartz
Calcite
Quartz
Quartz
Albite
Albite
Quartz
Quartz
Calcite
Quartz
Quartz
Quartz
Quartz
Quartz
Quartz
Quartz
X-ray Diffractive Data
Sample No. Y-43
Target Cu
Filter Ni
Voltage 35 KVP
Current 10 mA
Scale Factor 8
Time Constant 4 Sec
Scanning Speed 2 °/min
Divergency 1°
Receiving Slit 0.15 mm
Date 52.5.12
MESCO, Inc.

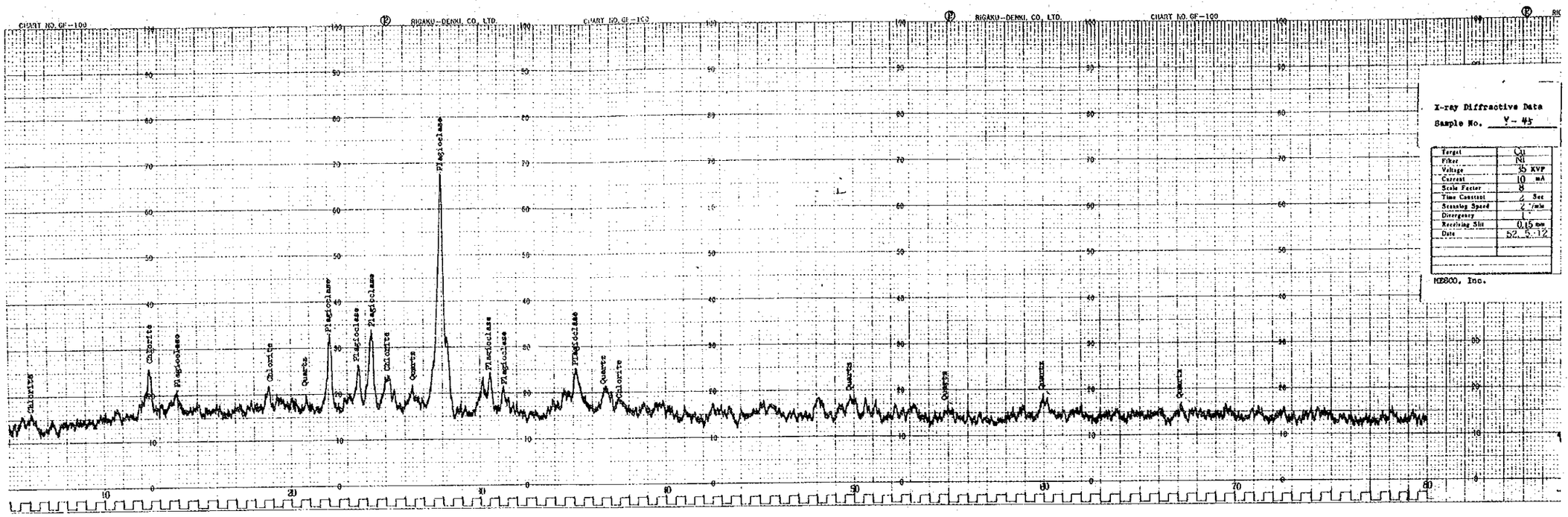


CHART NO. GF-100
RIGAKU-DENKI CO. LTD.
Chlorite
Plagioclase
Chlorite
Quartz
Plagioclase
Plagioclase
Plagioclase
Chlorite
Quartz
Plagioclase
Plagioclase
Plagioclase
Quartz
Chlorite
Quartz
Quartz
Quartz
Quartz
X-ray Diffractive Data
Sample No. Y-43
Target Cu
Filter Ni
Voltage 35 KVP
Current 10 mA
Scale Factor 8
Time Constant 2 Sec
Scanning Speed 2 °/min
Divergency 1°
Receiving Slit 0.15 mm
Date 52. 5.12
MEIKO, Inc.

Table I-7-1 Geochemical Data of H(Amdouz) Area

Area H

(Amdouz) (1)

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
HB- 1	2	6	30
*HB- 1	2	6	28
HB- 2	2	4	32
HB- 3	6	4	36
HB- 4	2	4	28
HB- 5	2	4	20
HB- 6	43	4	12
HB- 7	5	26	30
HB- 8	760	4	38
HB- 9	3	4	26
HB- 10	3	6	40
HB- 11	4	6	32
HB- 12	3	4	30
HB- 13	4	6	40
HB- 14	3	8	38
HB- 15	3	6	22
HB- 16	2	4	24
HB- 17	4	6	24
HB- 18	2	8	40
HB- 19	3	4	16
HB- 20	2	4	14
HB- 21	2	6	34
HB- 22	6	16	36
HB- 23	5	24	32
HB- 24	23	32	16
HB- 25	29	6	30
HB- 26	3	18	30
HB- 27	3	22	34
HB- 28	3	22	26
HB- 29	11	20	50
HB- 30	7	22	30
HB- 31	4	24	26
HB- 32	35	8	40
HB- 33	47	32	42
HB- 34	18	4	16

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
HB- 35	2	18	32
HB- 36	10	26	20
HB- 37	6	24	14
HB- 38	4	4	8
HB- 39	3	12	120
HB- 40	2	4	28
HB- 41	3	4	24
HB- 42	2	2	14
HB- 43	2	4	20
HB- 44	1	8	54
HB- 45	2	10	44
HB- 46	1	10	56
HB- 47	2	8	34
HB- 48	2	6	33
HB- 49	1	6	44
HB- 50	1	4	22
HB- 51	1	4	32
HB- 52	1	6	52
HB- 53	1	4	10
HB- 54	1	6	48
HB- 55	1	4	18
HB- 56	1	4	8
HB- 57	1	2	16
HB- 58	1	4	6
*HB- 58	1	4	6
HB- 59	4	4	30
*HB- 59	4	4	28
HB- 60	4	8	26
HB- 61	3	4	34
HB- 62	4	6	27
HB- 63	2	8	32
HB- 64	3	8	43
HB- 65	3	6	25
HB- 66	2	18	122
HB- 67	2	10	70

* Were checked chemical analysis

Area H

(Amdouz) (2)

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
HB- 68	3	8	8
HB- 69	2	12	55
HB- 70	3	6	31
HB- 71	2	28	180
HB- 72	2	16	110
HB- 73	2	14	23
HB- 74	2	2	3
HB- 75	1	2	3
HB- 76	1	4	23
HB- 77	2	2	7
HB- 78	2	22	101
HB- 79	2	16	71
HB- 80	3	20	13
HB- 81	3	12	52
HB- 82	2	6	47
HB- 83	3	4	18
HB- 84	2	4	22
HB- 85	3	10	47
HB- 86	7	12	56
HB- 87	3	14	41
HB- 88	4	6	30
HB- 89	2	10	42
HB- 90	2	8	30
HB- 91	2	14	36
HB- 92	2	10	47
HB- 93	3	6	24
HB- 94	3	12	61
HB- 95	410	30	23
HB- 96	23	22	15
HB- 97	54	24	7
HB- 98	15	12	19
HB- 99	11	10	34
HB-100	38	2	14
HB-101	4	2	8
HB-102	6	24	12

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
HB-103	6	22	13
HB-104	9	2	3
HB-105	3	20	9
HB-106	9	26	21
HB-107	3	22	11
HB-108	6	26	15
HB-109	8	28	12
HB-110	2	4	22
HB-111	4	2	16
HB-112	3	2	15
HB-113	4	4	14
HB-114	9	2	24
HB-115	4	6	27
HB-116	21	2	17
HB-117	8	4	44
HB-118	8	30	16
HB-119	3	32	12
HB-120	3	2	12
HB-121	11	16	6
HB-122	26	4	26
HB-123	21	4	30
HB-124	84	8	37
HB-125	165	14	26
HB-126	115	50	62
HB-127	10	4	26
HB-128	4	22	2
HB-129	9	30	19
HB-130	35	24	13
HB-131	11	22	7
HB-132	3	4	26
HB-133	18	4	11
HB-134	3	2	4
HB-135	8	2	6
HB-136	15	4	31
HB-137	8	10	32

* Were checked chemical analysis

Area H

(Amdouz) (3)

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
HB-138	4	24	11
HB-139	3	26	10
HB-140	4	24	10
HB-141	4	26	6
HB-142	17	60	58
HB-143	4	24	10
HB-144	4	26	12
HB-145	6	20	20
HB-146	5	22	13
HB-147	8	26	19
HB-148	4	24	12
HB-149	12	26	13
HB-150	5	26	19
HB-151	12	30	38
HB-152	5	28	14
HB-153	4	26	19
HB-154	4	26	19
HB-155	5	30	24
HB-156	8	32	22
HB-157	4	26	10
HB-158	8	22	22
HB-159	3	24	11
HB-160	5	24	7
HB-161	20	24	21
HB-162	4	24	9
HB-163	9	22	17
HB-164	4	28	10
*HB-164	4	30	9
HB-165	13	6	32
*HB-165	12	6	34
HB-166	50	6	49
HB-167	3	28	9
HB-168	2	26	8
HB-169	3	26	7
HB-170	3	30	13

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
HB-171	4	32	8
HB-172	10	34	12
HB-173	4	4	27
HB-174	22	10	59
HB-175	4	6	20
HB-176	280	34	28
HB-177	5	24	7
HB-178	2	4	21
HB-179	4	10	30
HB-180	8875	8	51
HB-181	23	2	5
HB-182	5	26	11
HB-183	8	6	35
HB-184	3	8	48
HB-185	4	6	39
HB-186	4	4	21
HB-187	2	8	29
HB-188	4	8	19
HB-189	3	6	18
HB-190	7	18	20
HB-191	2	14	48
HB-192	3	8	46
HB-193	34	8	69
HB-194	3	28	7
HB-195	2	24	19
HB-196	2	8	24
HB-197	59	8	33
HB-198	6	32	15
HB-199	3	12	20
HB-200	2	20	59
HB-201	7	14	14
HB-202	2	4	6
HB-203	3	10	7
HB-204	12	14	30
HB-205	115	16	22

* Were checked chemical analysis

Area H

(Amdouz) (4)

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
HB-206	3	18	53
HB-207	4	16	40
HB-208	2	10	39
HB-209	3	8	41
HB-210	2	10	13
HB-211	2	8	28
HB-212	2	8	32
*HB-212	3	8	31

Sample No.	elements analysed ppm		
	Cu	Pb	Zn

* Were checked chemical analysis

Area H

(Amdouz) (5)

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
HG- 1	1	8	30
*HG- 1	1	8	30
HG- 2	2	8	24
HG- 3	4	6	28
HG- 4	1	12	46
HG- 5	2	4	30
HG- 6	1	2	30
HG- 7	2	2	18
HG- 8	2	10	38
HG- 9	3	10	36
HG- 10	4	8	34
HG- 11	2	16	76
HG- 12	2	14	40
HG- 13	2	10	12
HG- 14	2	14	40
HG- 15	2	10	24
HG- 16	3	8	28
HG- 17	2	12	24
HG- 18	13	8	12
HG- 19	4	6	36
HG- 20	2	6	70
HG- 21	180	8	26
HG- 22	32	8	10
HG- 23	2	6	24
HG- 24	1	10	28
HG- 25	4	8	14
HG- 26	2	14	92
HG- 27	3	8	18
HG- 28	2	6	16
HG- 29	1	10	6
HG- 30	2	12	12
HG- 31	2	14	28
HG- 32	2	6	16
HG- 33	1	2	4
HG- 34	4	4	6

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
HG- 35	1	4	50
HG- 36	4	12	24
HG- 37	3	4	8
HG- 38	155	6	20
HG- 39	9	4	16
HG- 40	7	10	34
HG- 41	49	32	66
HG- 42	4	28	20
HG- 43	3	6	16
HG- 44	5	8	12
HG- 45	2	14	8
HG- 46	7	34	34
HG- 47	2	6	6
HG- 48	3	26	16
HG- 49	11	6	12
HG- 50	2	8	8
HG- 51	2	4	2
HG- 52	2	24	16
HG- 53	2	20	12
HG- 54	5	26	26
HG- 55	5	10	36
HG- 56	7	8	44
HG- 57	5	12	38
HG- 58	3	22	24
HG- 59	8	6	16
HG- 60	2	8	8
HG- 61	13	8	10
HG- 62	17	8	34
HG- 63	4	10	22
HG- 64	6	26	28
HG- 65	9	32	36
HG- 66	5	20	36
HG- 67	44	6	32
HG- 68	3	12	28
HG- 69	14	12	14

* Were checked chemical analysis

Area H

(Amdouz)

(6)

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
HG- 70	9	30	34
HG- 71	14	8	30
HG- 72	10	8	34
HG- 73	4	10	28
HG- 74	44	8	30
HG			
HG- 75	5	6	16
HG- 76	10	10	20
HG- 77	20	8	40
HG- 78	16	28	6
HG- 79	42	30	20
HG- 80	28	10	44
HG- 81	10	10	30
HG- 82	59	10	36
HG- 83	13	12	30
HG- 84	36000	20	82
HG- 85	325	126	80
HG- 86	32	56	200
HG- 87	1080	18	50
HG- 88	6	14	140
HG- 89	5	14	114
HG- 90	3	12	106
*HG- 90	3	12	108
HG- 91	3	4	24
*HG- 91	3	4	23
HG- 92	2	4	12
HG- 93	22	2	5
HG- 94	41	4	8
HG- 95	2	2	33
HG- 96	3	2	6
HG- 97	4	8	13
HG- 98	3	2	2
HG- 99	2	2	4
HG-100	3	6	20
HG-101	4	4	18
HG-102	43	4	17

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
HG-103	3	6	11
HG-104	10	22	7
HG-105	130	40	18
HG-106	134	30	25
HG-107	31	28	11
HG-108	6	24	7
HG-109	6	34	5
HG-110	7	20	6
HG-111	4	6	27
HG-112	13	20	7
HG-113	28	22	8
HG-114	28	272	420
HG-115	9500	34	45
HG-116	8700	12	40
HG-117	10	4	410
HG-118	6	4	60
HG-119	5	12	13
HG-120	27	30	22
HG-121	8	28	102
HG-122	9	22	12
HG-123	83	38	115
HG-124	34	26	19
HG-125	13	24	26
HG-126	34	36	104
HG-127	3	22	11
HG-128	9	28	20
HG-129	4	26	21
HG-130	20	6	13
HG-131	10	28	32
HG-132	16	6	7
HG-133	6	20	9
HG-134	6	26	11
HG-135	59	4	6
HG-136	39	6	27
HG-137	33	10	69

* Were checked chemical analysis

Area H

(Amdouz) (7)

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
HG-138	46	12	87
HG-139	28	22	70
HG-140	66	14	44
HG-141	19	8	46
HG-142	4	22	9
HG-143	4	22	12
HG-144	3	24	10
HG-145	3	22	11
*HG-145	3	24	12
HG-146	4	28	8
*HG-146	4	26	7
HG-147	4	26	9
HG-148	22	4	40
HG-149	52	16	41
HG-150	2	4	33
HG-151	2	6	44
HG-152	3	6	57
HG-153	11	24	30
HG-154	5	30	23
HG-155	11	16	34
HG-156	3	12	39
HG-157	4	12	179
HG-158	5	8	82
HG-159	3	10	102
HG-160	3	8	50
HG-161	4	4	31
HG-162	3	8	32
HG-163	2	14	37
HG-164	4	16	26
HG-165	2	6	60
HG-166	1	8	54
HG-167	9	4	38
HG-168	2	24	9
HG-169	15	26	11
HG-170	9	28	12

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
HG-171	5	32	28
HG-172	7	36	23
HG-173	5	28	12
HG-174	7	24	15
HG-175	2	8	32
HG-176	45	4	45
HG-177	3	6	48
HG-178	59	24	14
HG-179	9	22	17
HG-180	2	6	30
HG-181	3	8	51
HG-182	2	6	62
HG-183	2	6	76
HG-184	3	4	43
HG-185	2	4	33
HG-186	3	6	25
HG-187	6	4	29
HG-188	7	4	30
HG-189	2	2	28
HG-190	2	8	133
HG-191	3	6	32
HG-192	33	6	33
HG-193	32	24	9
HG-194	82	4	22
HG-195	5	24	27
HG-196	44	2	26
*HG-196	46	2	28

* Were checked chemical analysis

Area H

(Amdouz) (8)

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
HE- 1	9	9	34
*HE- 1	9	9	33
HE- 2	53	6	34
HE- 3	6	12	32
HE- 4	75	8	32
HE- 5	87	18	48
HE- 6	72	12	24
HE- 7	20	6	24
HE- 8	5	6	18
HE- 9	3	6	10
HE- 10	2	4	14
HE- 11	3	8	24
HE- 12	4	8	22
HE- 13	5	10	20
HE- 14	11	24	24
HE- 15	27	6	32
HE- 16	10	6	36
HE- 17	3	8	10
HE- 18	7	26	24
HE- 19	17	6	10
HE- 20	7	24	16
HE- 21	2	22	20
HE- 22	3	24	24
HE- 23	4	26	14
HE- 24	4	20	16
HE- 25	4	18	16
HE- 26	14	8	16
HE- 27	3	16	12
HE- 28	3	18	14
HE- 29	4	24	22
HE- 30	2	8	26
HE- 31	53	6	28
HE- 32	5	8	28
HE- 33	4	4	4
HE- 34	3	8	8

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
HE- 35	3	8	50
HE- 36	2	8	44
HE- 37	2	10	72
HE- 38	3	4	8
HE- 39	2	10	40
HE- 40	3	10	16
HE- 41	13	8	46
HE- 42	52	8	42
HE- 43	130	24	26
HE- 44	20	30	32
HE- 45	2	8	40
HE- 46	3	10	30
HE- 47	1	8	34
HE- 48	2	6	16
HE- 49	2	10	18
HE- 50	2	8	18
HE- 51	3	8	10
HE- 52	11	12	40
HE- 53	32	34	60
HE- 54	20	22	24
HE- 55	6	22	28
HE- 56	24	2	28
HE- 57	14	4	24
HE- 58	5	2	20
HE- 59	10	10	32
HE- 60	2	6	30
HE- 61	4	8	22
HE- 62	2	6	28
HE- 63	25	48	32
HE- 64	9	24	10
HE- 65	3	12	40
HE- 66	20	64	44
HE- 67	30	6	30
HE- 68	80	150	50
HE- 69	2	10	26

* Were checked chemical analysis

Area H

(Amdouz) (9)

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
HE- 70	2	22	12
HE- 71	46	24	20
HE- 72	7	52	140
HE- 73	7	30	34
HE- 74	5	22	30
HE- 75	1	8	30
HE- 76	1	4	8
HE- 77	4	4	14
HE- 78	5	4	24
HE- 79	10	24	22
HE- 80	275	12	42
HE- 81	4	14	40
HE- 82	350	10	42
HE- 83	320	6	48
HE- 84	17	6	30
HE- 85	2	2	32
HE- 86	2	4	42
HE- 87	3	2	12
HE- 88	18	10	66
HE- 89	3	6	32
HE- 90	10	36	34
HE- 91	16	4	34
HE- 92	8	24	30
HE- 93	80	22	28
HE- 94	2050	56	32
HE- 95	6	6	36
HE- 96	3	6	32
HE- 97	3	8	32
HE- 98	2	8	40
HE- 99	4	10	116
HE-100	10	6	28
*HE-100	10	6	28
HE-101	78	32	12
*HE-101	81	34	12
HE-102	87	30	10

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
HE-103	3	32	9
HE-104	6	32	9
HE-105	7	4	11
HE-106	2	2	14
HE-107	670	30	32
HE-108	10	12	23
HE-109	8	24	10
HE-110	5	28	14
HE-111	4	8	26
HE-112	4	28	7
HE-113	18	6	76
HE-114	11	4	42
HE-115	2	2	25
HE-116	3	8	31
HE-117	5	14	49
HE-118	25	12	58
HE-119	24	12	91
HE-120	30	24	19
HE-121	3	18	94
HE-122	6	16	40
HE-123	5	30	28
HE-124	3	10	47
HE-125	18	12	50
HE-126	3	4	48
HE-127	4	26	6
HE-128	5	30	12
HE-129	17	32	16
HE-130	71	28	17
HE-131	11	32	18
HE-132	2	12	31
HE-133	2	14	48
HE-134	21	18	36
HE-135	2	8	19
HE-136	2	2	4
HE-137	2	12	8

* Were checked chemical analysis

Area H

(Amdouz)

(10)

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
HE-138	3	4	3
HE-139	25	18	54
HE-140	3	20	110
HE-141	2	14	60
HE-142	1	6	25
HE-143	3	8	29
HE-144	3	10	67
HE-145	2	6	49
HE-146	3	4	33
HE-147	2	10	39
HE-148	2	4	14
HE-149	3	4	7
HE-150	2	10	22

Sample No.	elements analysed ppm		
	Cu	Pb	Zn

* Were checked chemical analysis

Area H

(Amdouz) (11)

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
HF- 1	9	6	20
*HF- 1	9	6	20
HF- 2	2	4	26
HF- 3	5	2	20
HF- 4	11	24	28
HF- 5	15	2	12
HF- 6	36	2	16
HF- 7	9	18	14
HF- 8	10	10	20
HF- 9	4	24	26
HF- 10	8	4	20
HF- 11	1	4	18
HF- 12	2	6	20
HF- 13	2	4	34
HF- 14	2	6	32
HF- 15	2	4	32
HF- 16	35	8	12
HF- 17	76	18	26
HF- 18	4	26	8
HF- 19	3	22	36
HF- 20	45	14	24
HF- 21	4	2	22
HF- 22	2	4	36
HF- 23	33	6	32
HF- 24	64	2	18
HF- 25	2	2	18
HF- 26	15	12	24
HF- 27	5	6	24
HF- 28	3	4	34
HF- 29	5	26	12
HF- 30	5	22	18
HF- 31	4	12	16
HF- 32	4	20	10
HF- 33	5	24	30
HF- 34	2	20	20

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
HF- 35	2	26	18
HF- 36	4	20	20
HF- 37	1	20	22
HF- 38	3	20	8
HF- 39	7	32	20
HF- 40	2	2	16
HF- 41	9	6	28
HF- 42	2	2	30
HF- 43	1	4	18
HF- 44	2	4	12
HF- 45	2	8	40
HF- 46	4	2	8
HF- 47	1	4	18
HF- 48	6	4	8
HF- 49	1	4	24
HF- 50	1	2	8
HF- 51	2	2	20
HF- 52	2	8	20
HF- 53	3	8	32
HF- 54	1	4	28
HF- 55	1	10	24
HF- 56	2	4	16
HF- 57	2	2	14
HF- 58	1	4	8
HF- 59	2	4	16
HF- 60	2	6	20
HF- 61	1	2	22
HF- 62	3	4	14
HF- 63	3	4	10
HF- 64	2	6	18
HF- 65	7	4	32
HF- 66	6	6	24
HF- 67	2	4	22
HF- 68	2	6	40
HF- 69	2	4	26

* Were checked chemical analysis

Area H

(Amdouz) (12)

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
HF- 70	1	10	40
HF- 71	2	10	136
HF- 72	3	4	20
HF- 73	3	8	34
HF- 74	1	10	24
HF- 75	2	6	22
HF- 76	1	8	24
HF- 77	1	8	20
HF- 78	3	8	28
HF- 79	2	6	32
HF- 80	3	2	32
HF- 81	7	6	12
HF- 82	2	6	30
HF- 83	2	6	32
HF- 84	1	2	36
HF- 85	1	2	26
HF- 86	2	6	30
HF- 87	3	10	26
HF- 88	1	10	18
HF- 89	1	10	28
HF- 90	2	8	30
HF- 91	3	10	40
HF- 92	5	10	22
HF- 93	4750	16	102
HF- 94	32	34	56
HF- 95	2	12	30
HF- 96	3	14	28
HF- 97	27	14	24
HF- 98	2	8	26
HF- 99	3	8	27
HF-100	12	8	20
HF-101	11	16	18
HF-102	21	14	26
*HF-102	22	14	26
HF-103	2	6	37

Sample No.	elements analysed ppm		
	Cu	Pb	Zn
*HF-103	2	6	37
HF-104	1	4	28
HF-105	6	4	26
HF-106	2	2	17
HF-107	1	4	25
HF-108	4	6	18
HF-109	1	4	25
HF-110	4	6	29
HF-111	13	6	35
HF-112	4	4	37
HF-113	3	2	13
HF-114	3	4	7
HF-115	2	6	17
HF-116	1	6	18
HF-117	3	2	3
HF-118	3	2	5
HF-119	4	2	2
HF-120	2	2	3
HF-121	16	2	2
HF-122	3400	6	44
HF-123	61	6	3
HF-124	5	2	6
*HF-124	4	2	2
HF-125	3	2	3
HF-126	2	2	2
HF-127	2	4	6
HF-128	3	4	16
HF-129	2	2	22
HF-130	4	4	8
HF-131	3	6	45
HF-132	7	6	26
HF-133	2	8	25
HF-134	3	2	111
HF-135	2	18	22
HF-136	1850	4	87

* Were checked chemical analysis