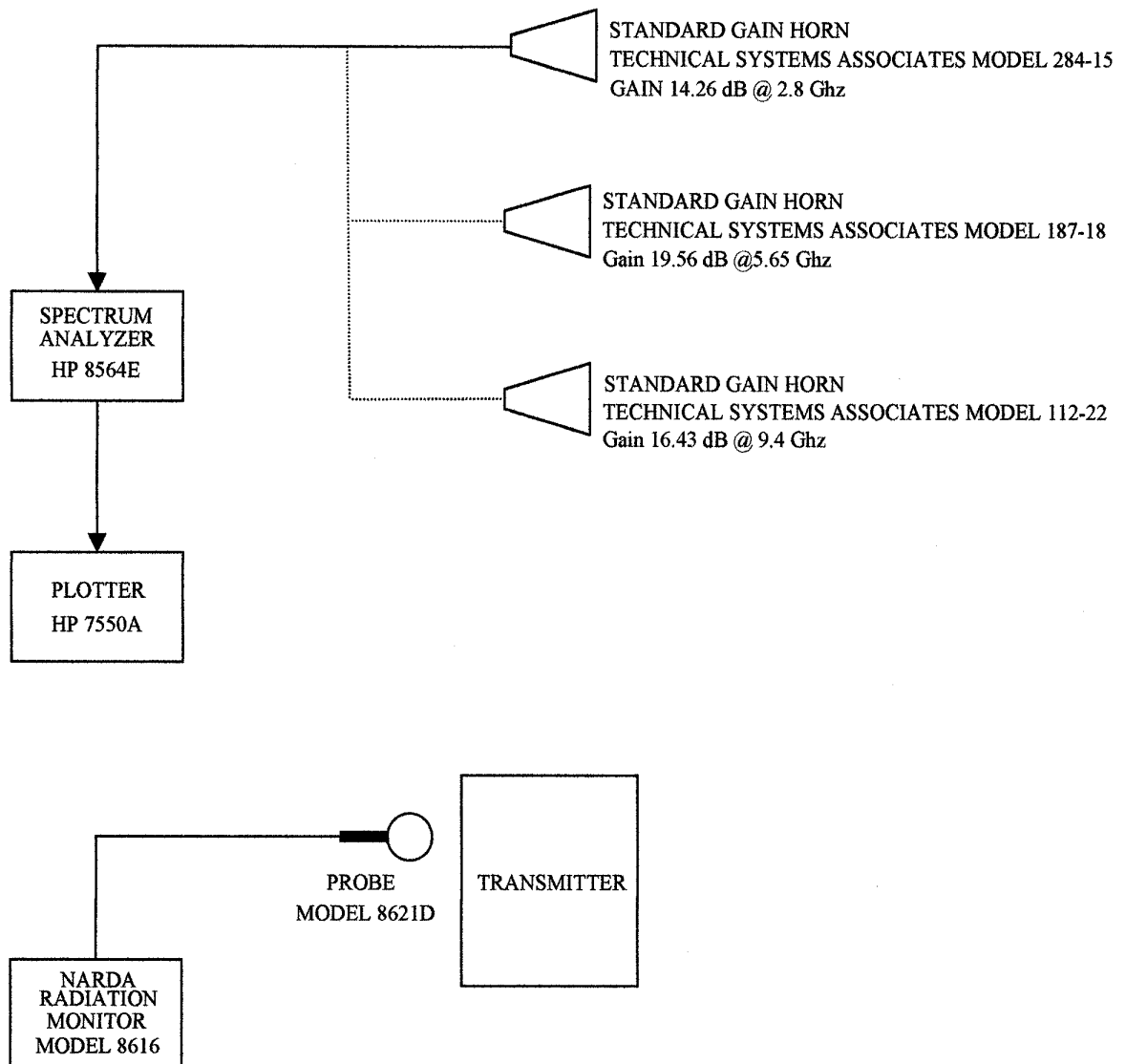


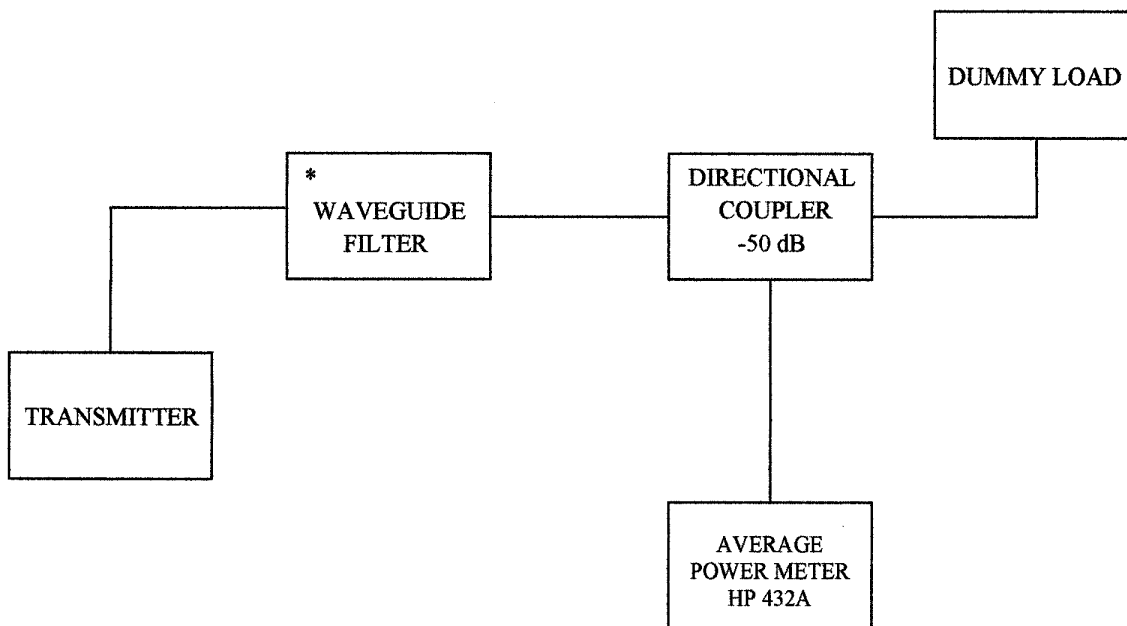
TEST SETUP FOR SPURIOUS RADIATION FIELD STRENGTH



Measurements were made using each standard gain horn, as shown in the analyzer plot, probing around doors, panels and cables. Highest readings were obtained at the hotbox door in front of the air filter. Measurements were taken with the transmitter at full power (355 kW peak) with the horn located 3 feet away in front of the air filter.

In addition a Narda Electromagnetic Radiation Monitor, Model 8616 and isotropic probe, Model 8621D were used to probe around the transmitter, cabinet doors, panels, etc. No readings were observed on the lowest scale (1 mw/cm squared).

TEST SETUP FOR POWER MEASUREMENTS



TRANSMITTER POWER OUTPUT=DIRECTIONAL COUPLER+DUTY CYCLE CORRECTION FACTOR+METER READING
 $=49.61+33.0+2.9$
 $=85.5 \text{ dBm}$
 $=355 \text{ kW}$

* WAVEGUIDE FILTER INCLUDED IN TEST SETUP IS NORMALLY LOCATED IN THE WAVEGUIDE ASSEMBLY AT THE EQUIPMENT RACK. CENTER FREQUENCY IS 5600 MHz.

DUTY CYCLE CORRECTION FACTOR

DC=10 LOG 1/PRF X PW
 DC=10 LOG 1/250 X 2usec(10-6)
 DC= 33.0

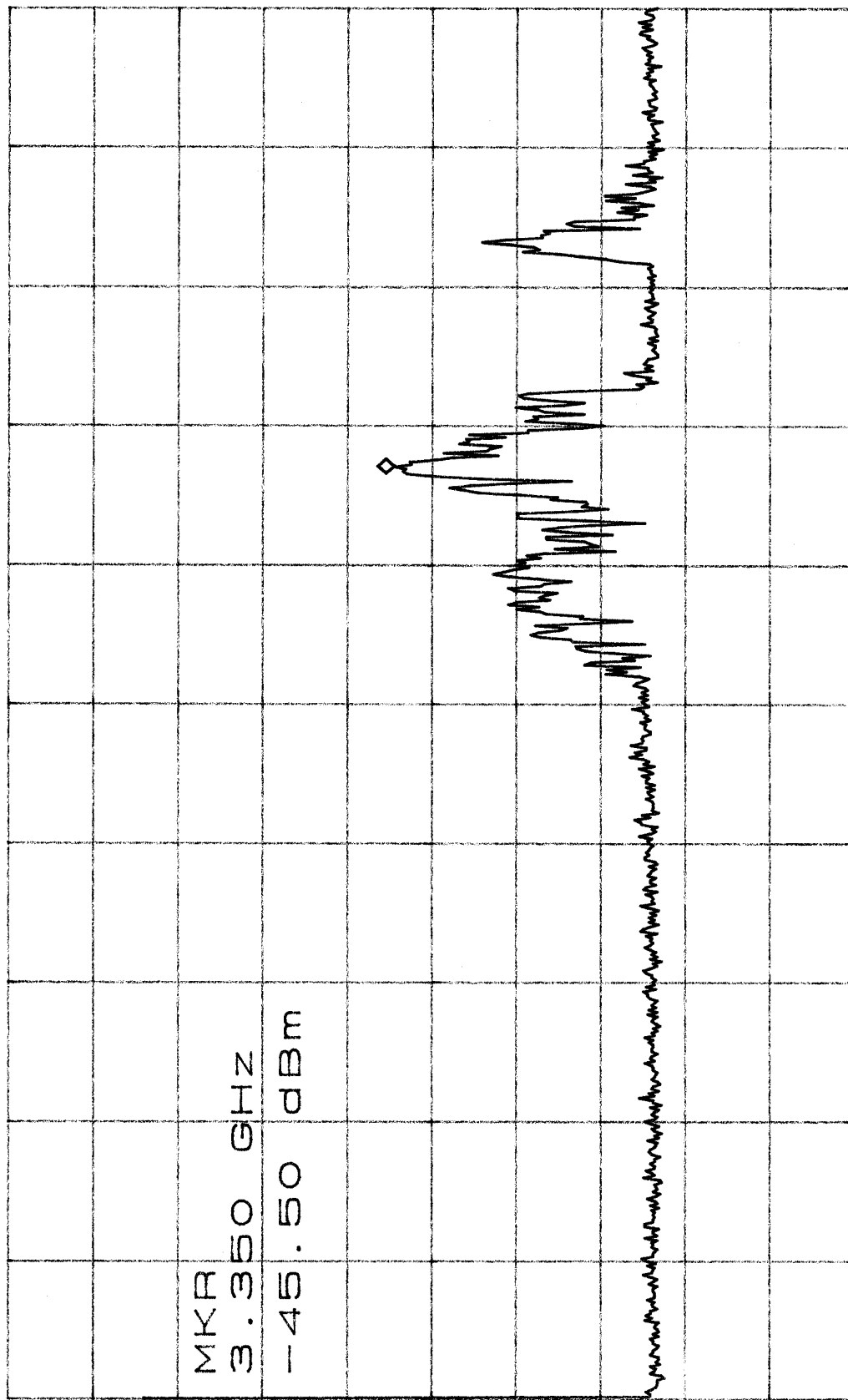
A
SIZE

CODE IDENT NO.

DRAWING NO.

SK1874-10

ATTEN 10dB MKR -45.50dBm
 RL 0dBm 3.350GHZ



START 0HZ STOP 5.000GHZ
 *RBW 100KHZ VBW 100KHZ *SWP 10.0sec

ATTEN 10dB

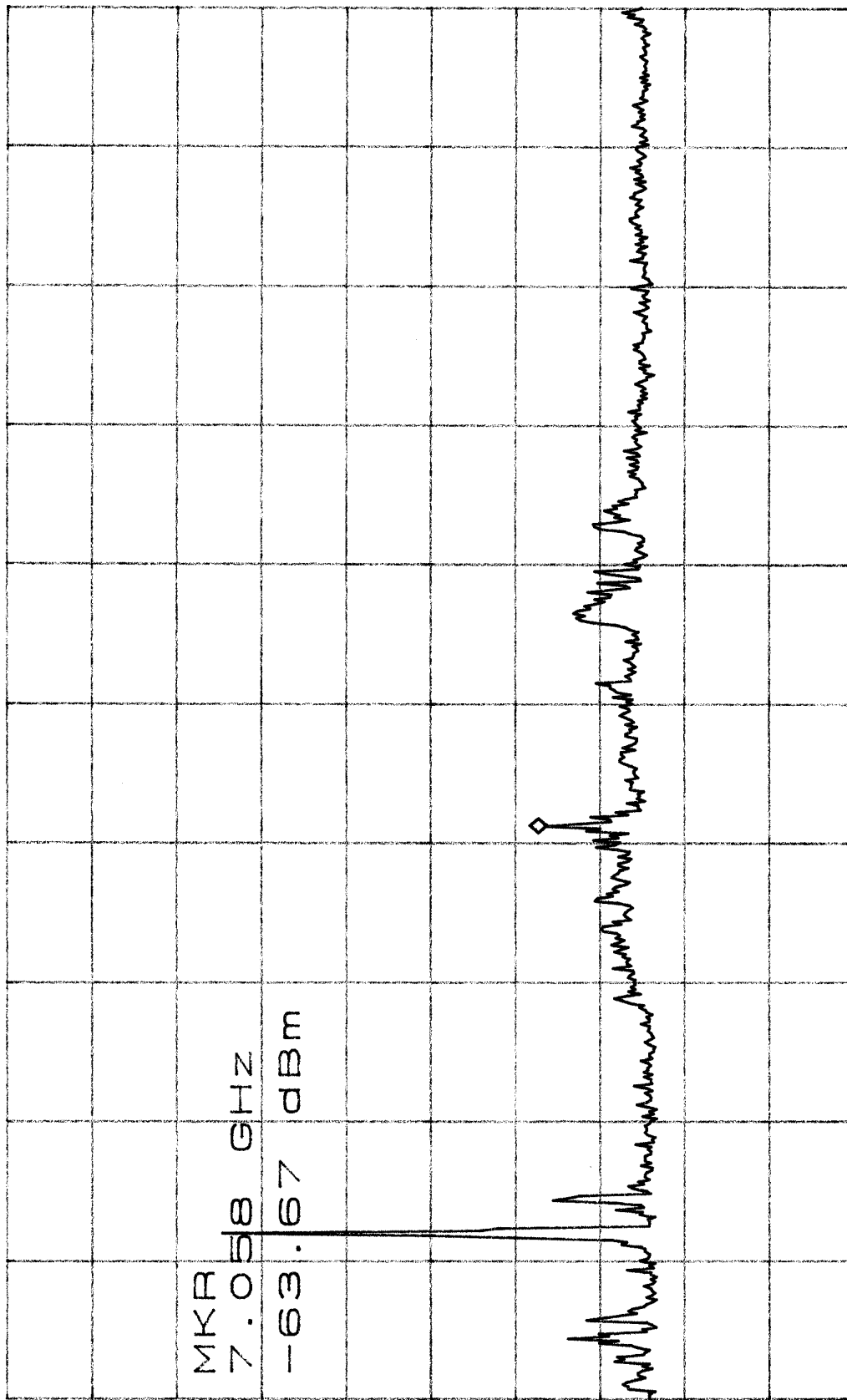
RL 0dBm

10dB/

MKR -63.67dBm

7.058GHZ

MKR
7.058 GHZ
-63.67 dBm



START 5.000GHZ

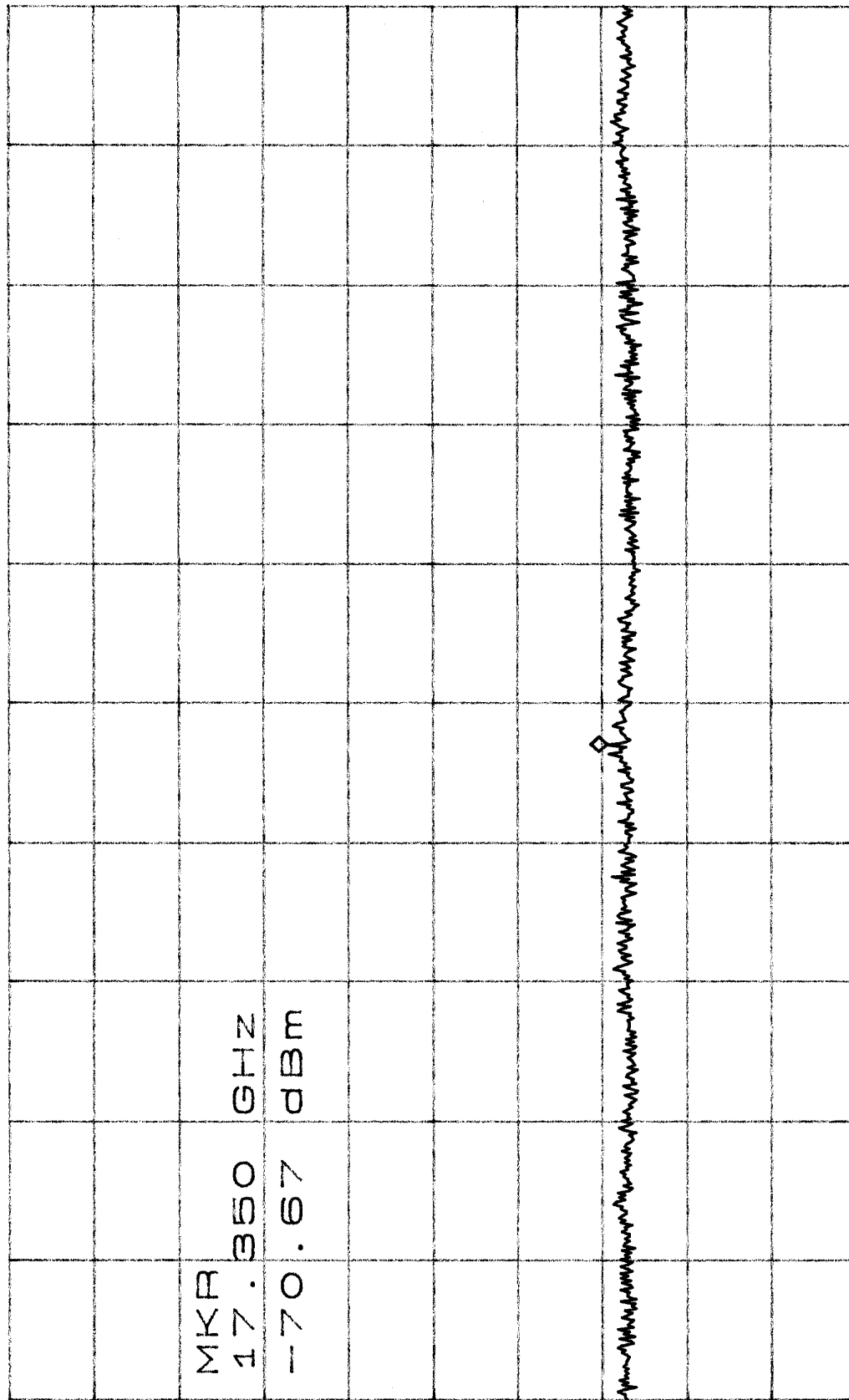
STOP 10.000GHZ

*RBW 100KHZ

VBW 100KHZ

*SWP 10.0sec

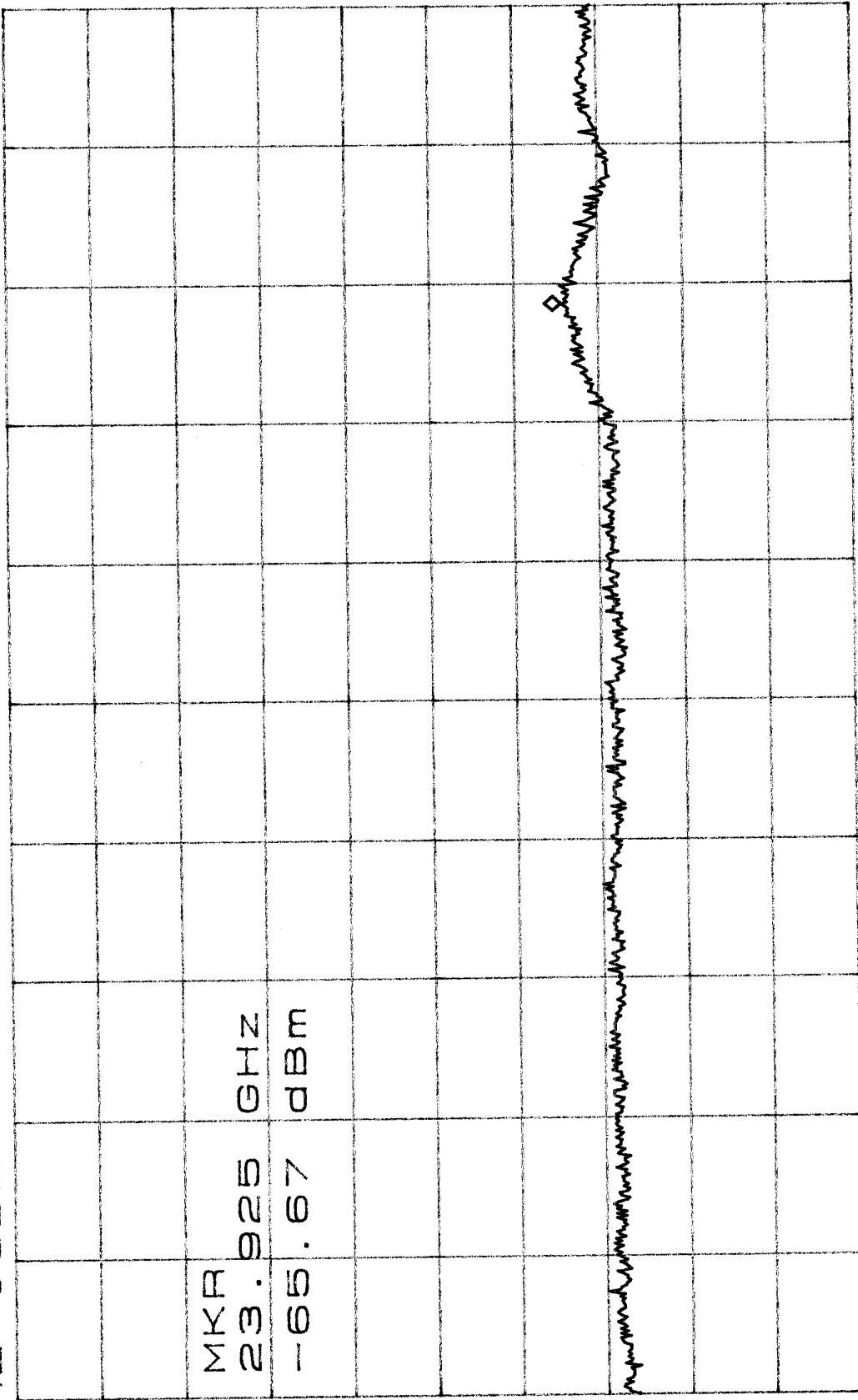
ATTEN 10dB MKR -70.67dBm
RL 0dBm 10dB/ 17.350GHZ



D

START 15.000GHZ STOP 20.000GHZ
*RBW 100KHZ VBW 100KHZ *SWP 10.0sec

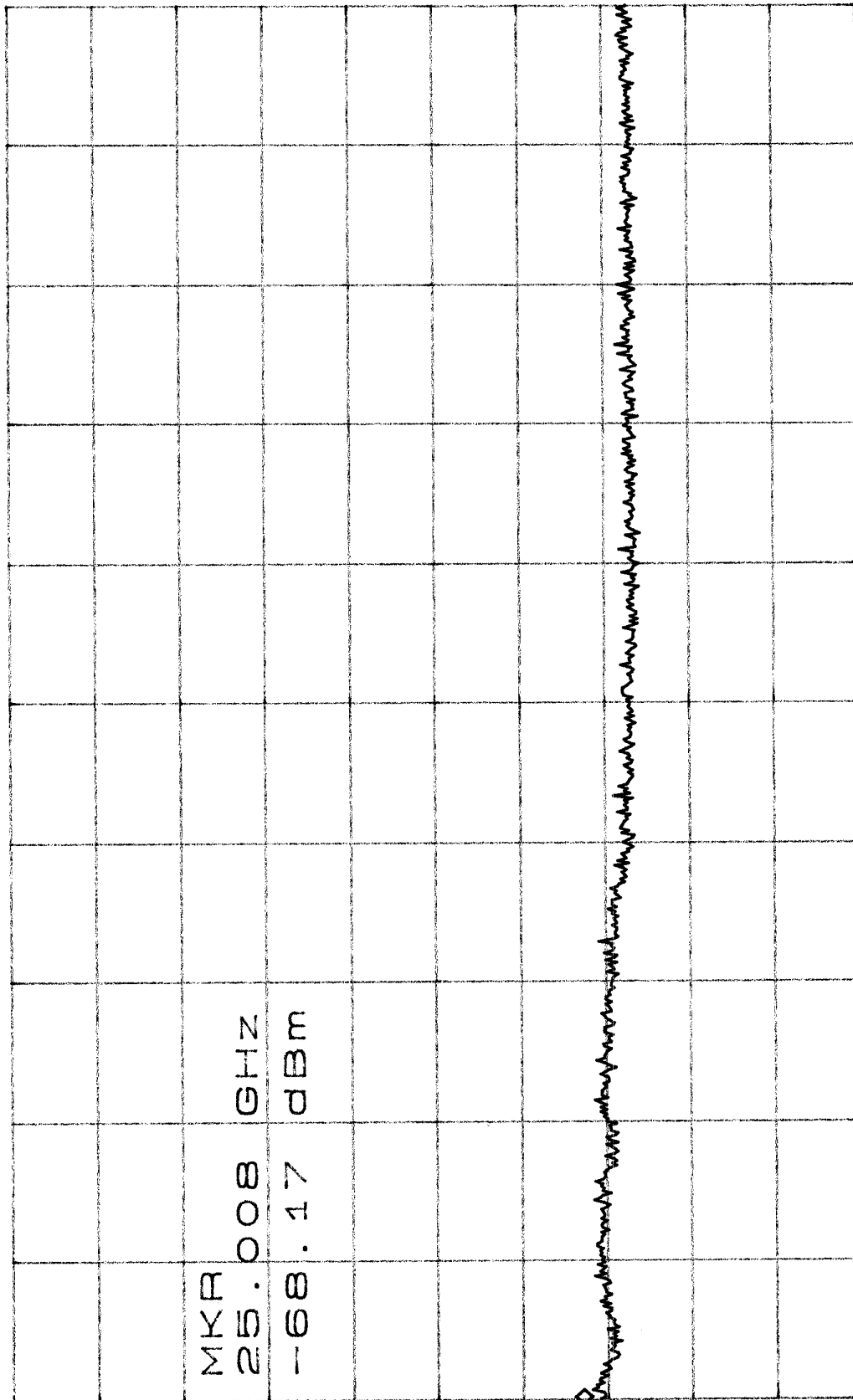
ATTEN 10dB MKR -65.67dBm
RL 0dBm 23.925GHz



MKR
23.925 GHz
-65.67 dBm

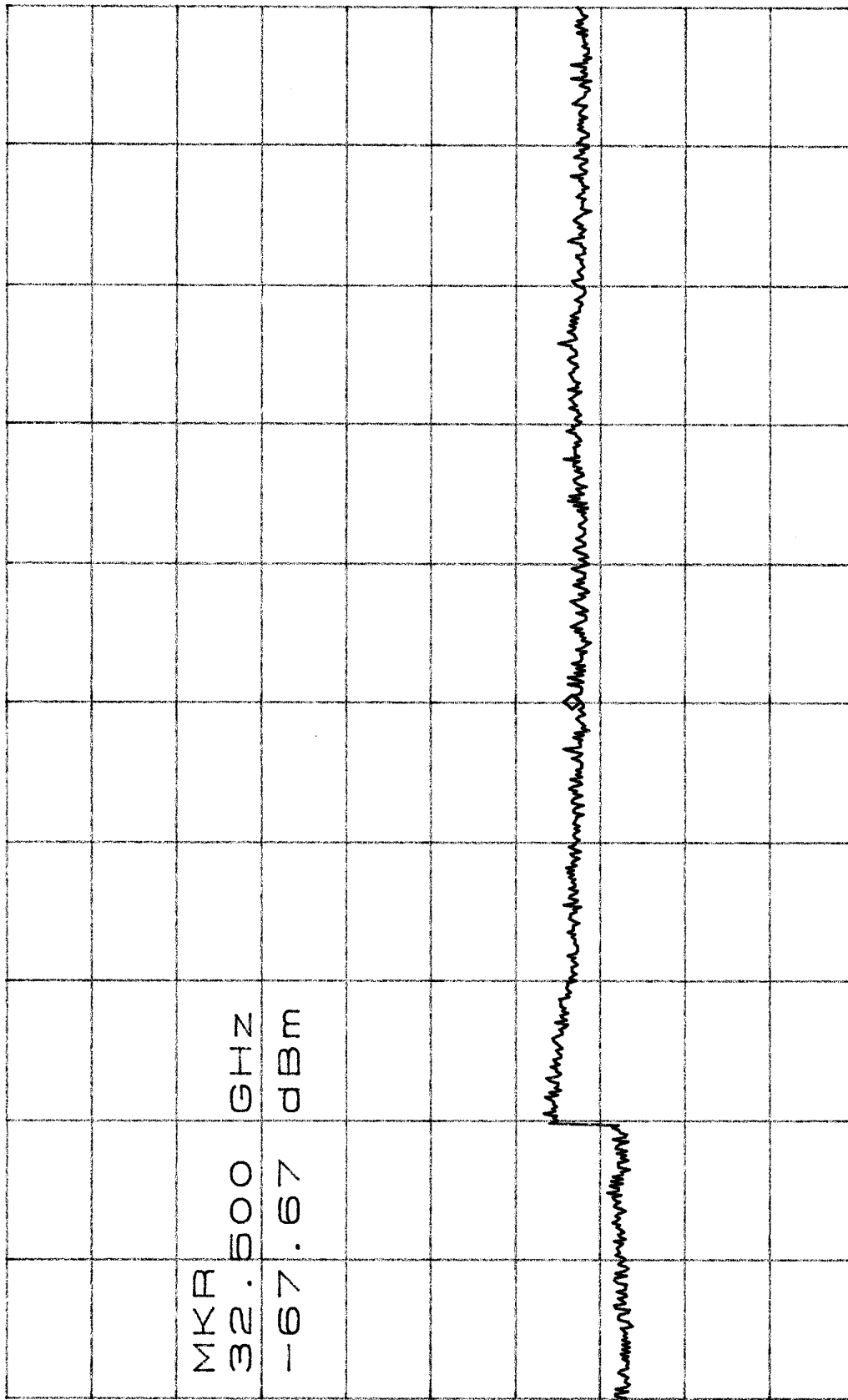
START 20.000GHZ STOP 25.000GHZ
*RBW 100KHZ VBW 100KHZ *SWP 10.0sec

ATTEN 10dB MKR -68.17dBm
 RL 0dBm 25.008GHz



START 25.000GHZ STOP 30.000GHZ
 *RBW 100KHZ VBW 100KHZ *SWP 10.0sec

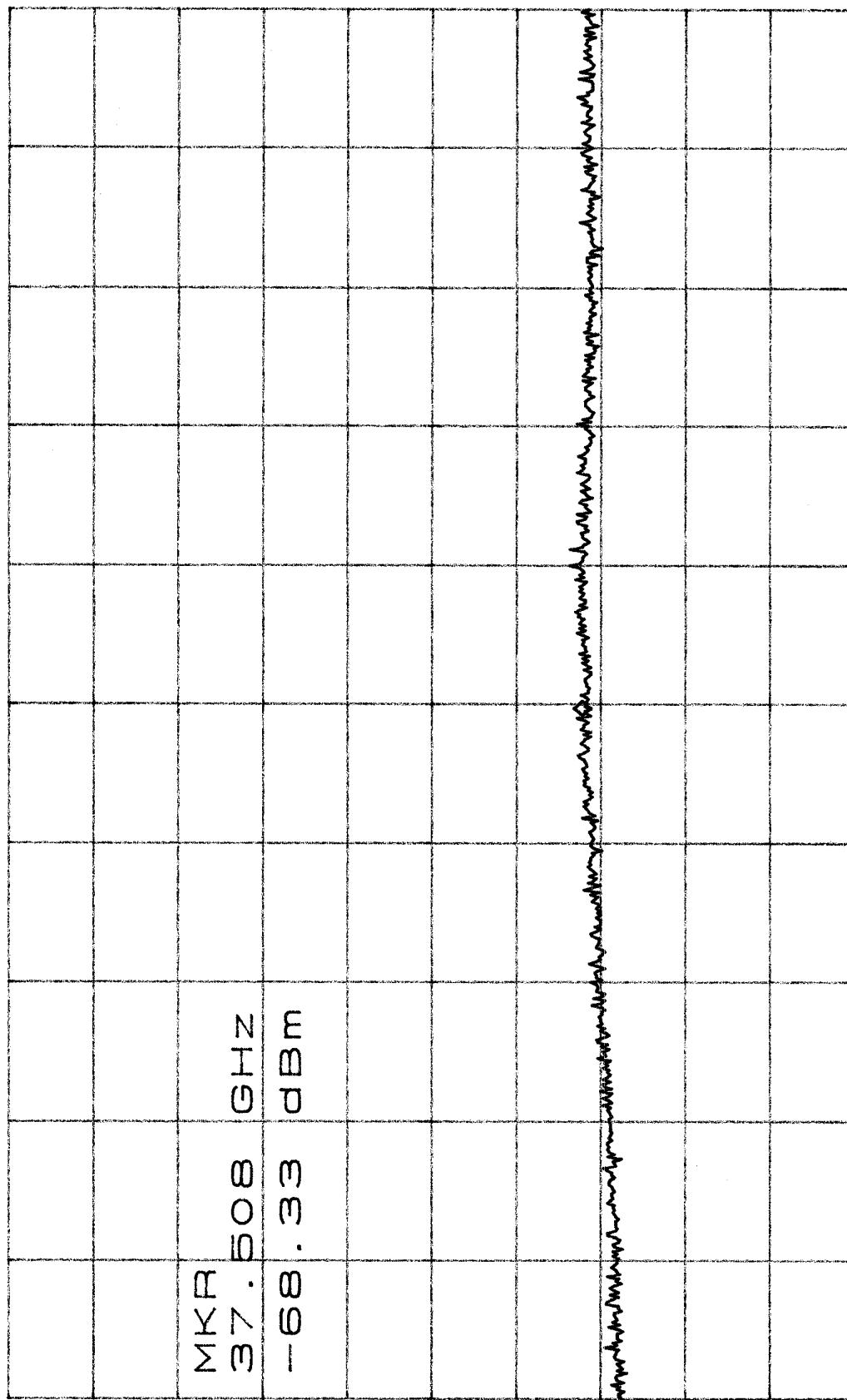
ATTEN 10dB MKR -67.67dBm
RL 0dBm 32.500GHZ



D

START 30.000GHZ STOP 35.000GHZ
*RBW 100KHZ *VBW 100KHZ *SWP 10.0sec

ATTEN 10dB MKR -68.33dBm
RL 0dBm 37.508GHZ



D

START 35.000GHZ STOP 40.000GHZ
*RBW 30KHz *VBW 30KHz *SWP 20.0sec