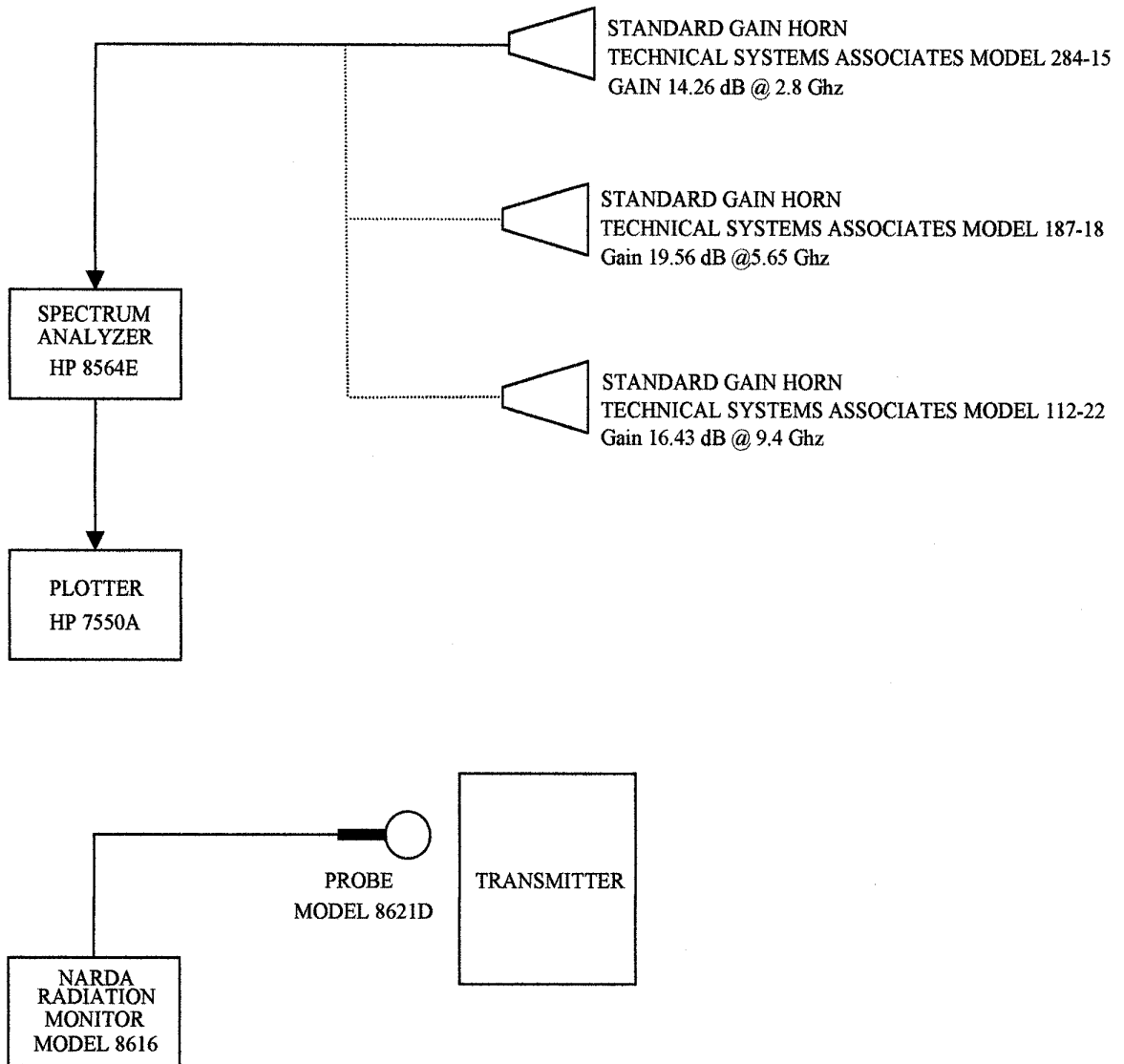


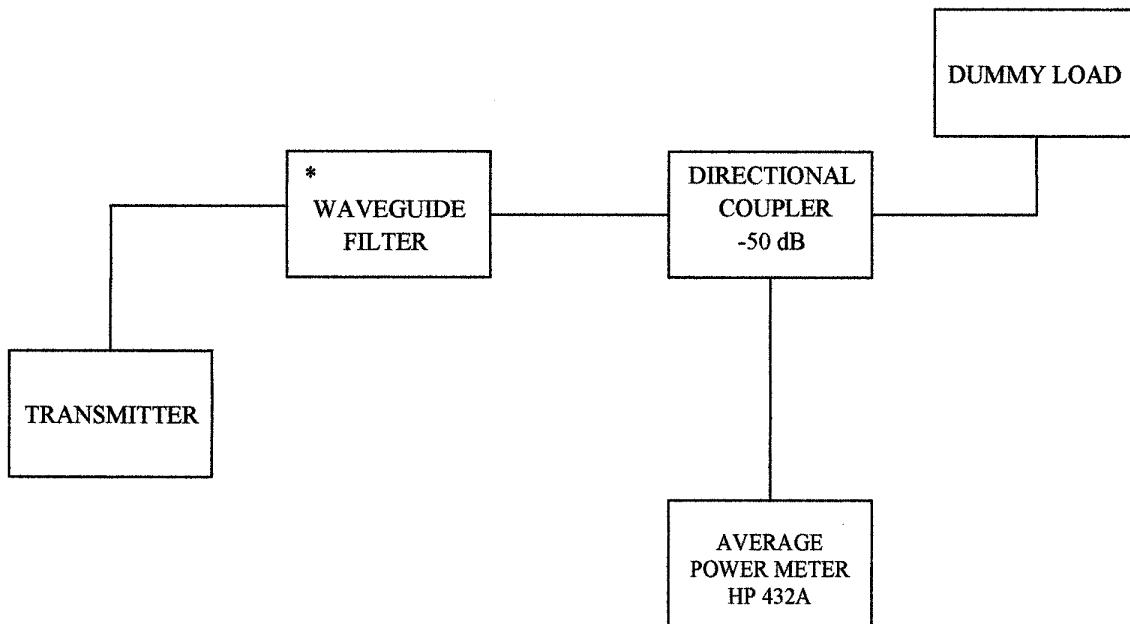
## TEST SETUP FOR SPURIOUS RADIATION FIELD STRENGTH



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

$DC=10 \text{ LOG } 1/\text{PRF} \times \text{PW}$   
 $DC=10 \text{ LOG } 1/250 \times 2\text{usec}(10^{-6})$   
 $DC= 33.0$

A  
SIZE

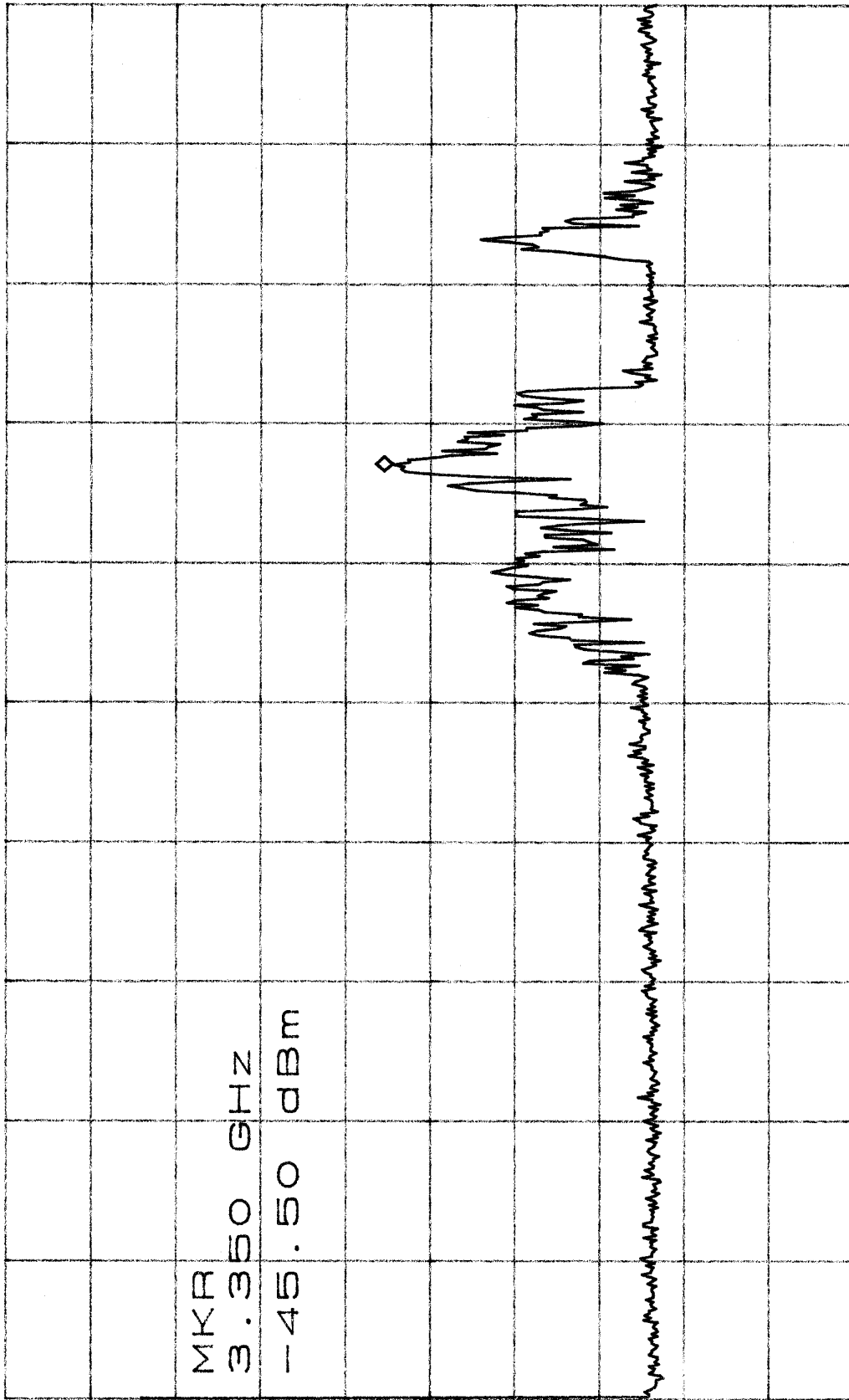
CODE IDENT NO.

DRAWING NO.

SK1874-10



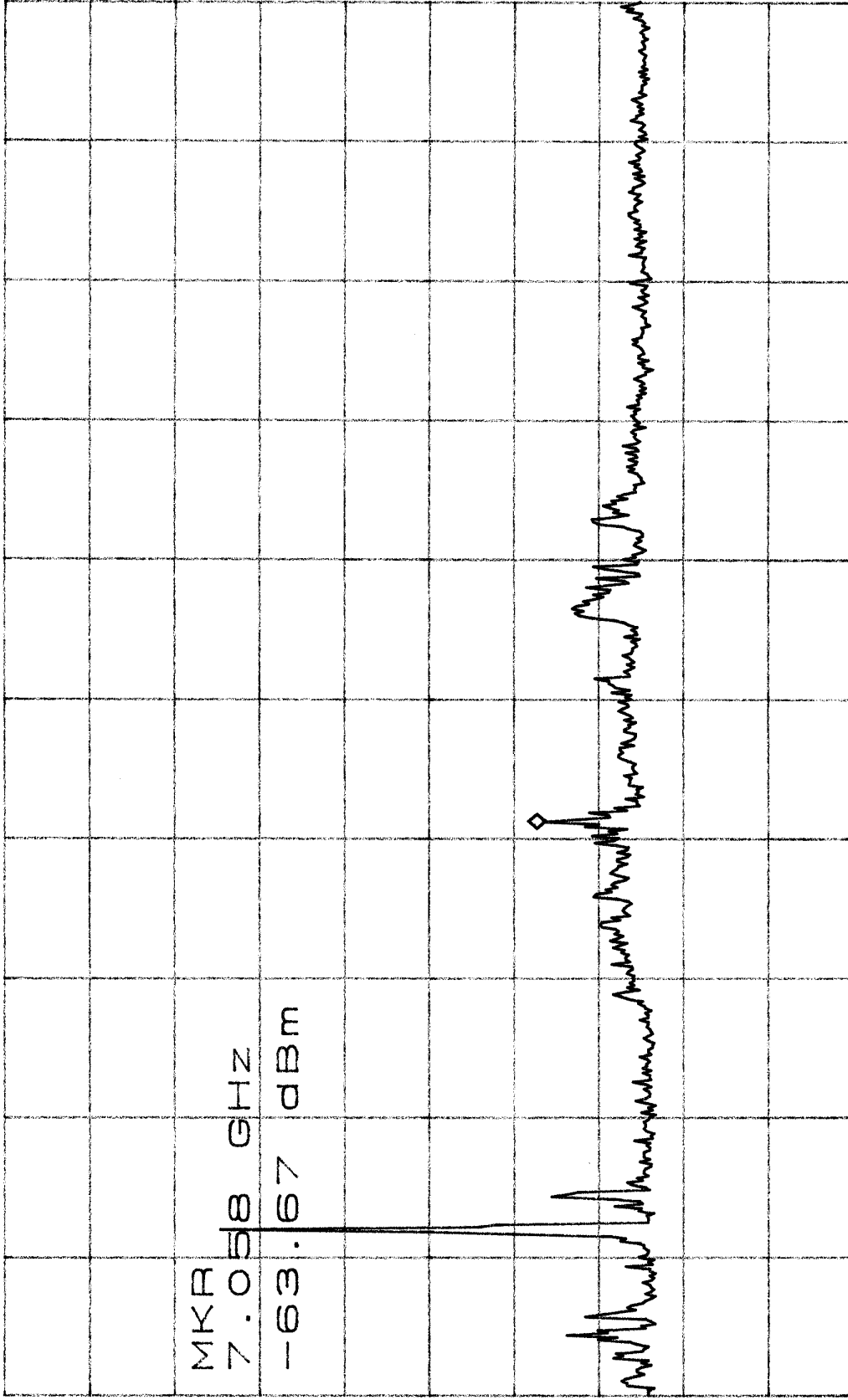
ATTEN 10dB MKR -45.50dBm  
 RL 0dBm 10dB/ 3.350GHZ



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



ATTN 10dB  
 RL 0dBm  
 MKR -63.67dBm  
 10dB/  
 7.058GHZ

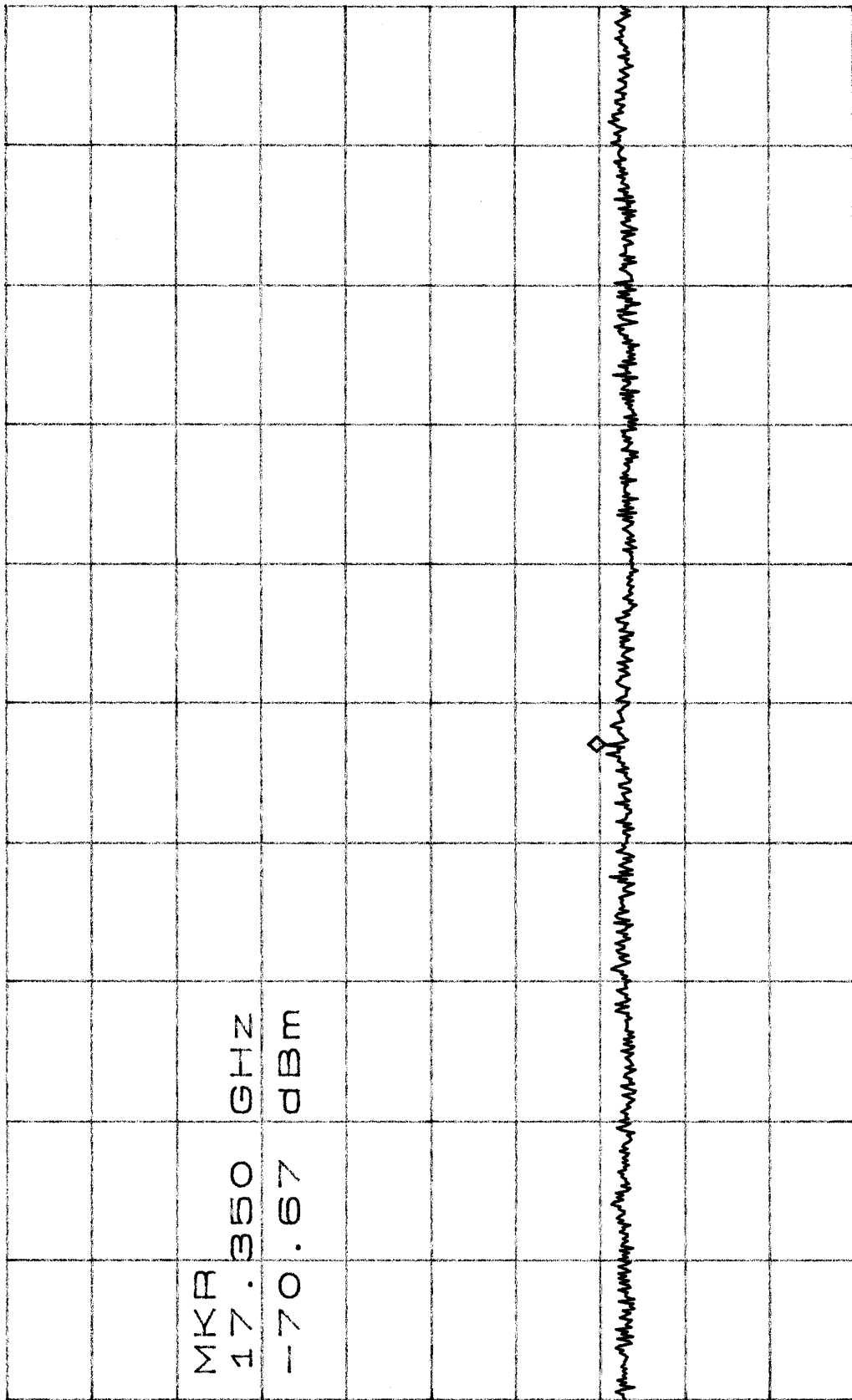


START 5.000GHZ  
 \*RBW 100KHZ  
 STOP 10.000GHZ  
 \*SWP 10.0sec  
 VBW 100KHZ





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



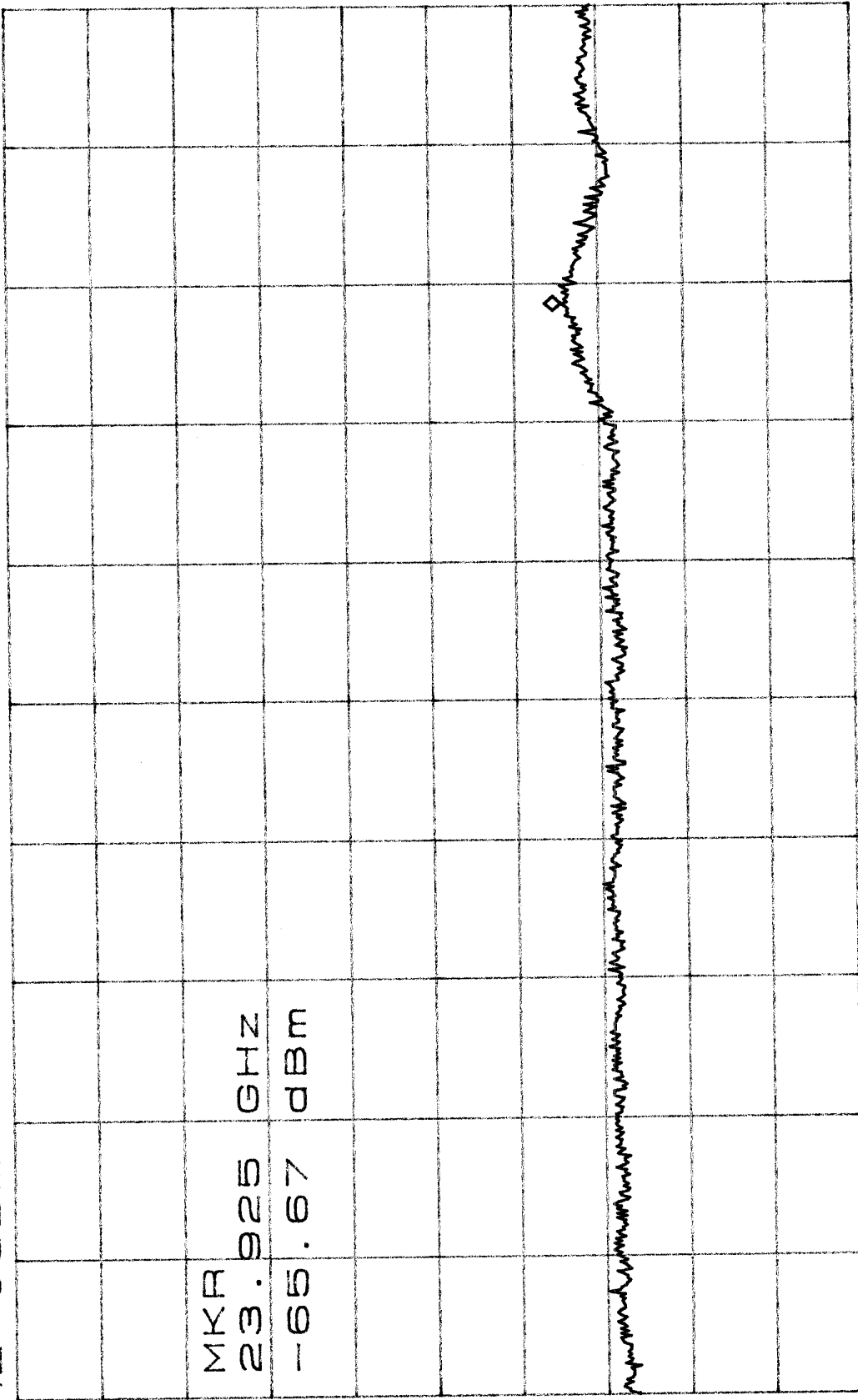
MKR  
 17.350 GHZ  
 -70.67 dBm

D

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



ATTN 10dB  
 RL 0dBm  
 MKR -65.67dBm  
 10dB/  
 23.925GHZ

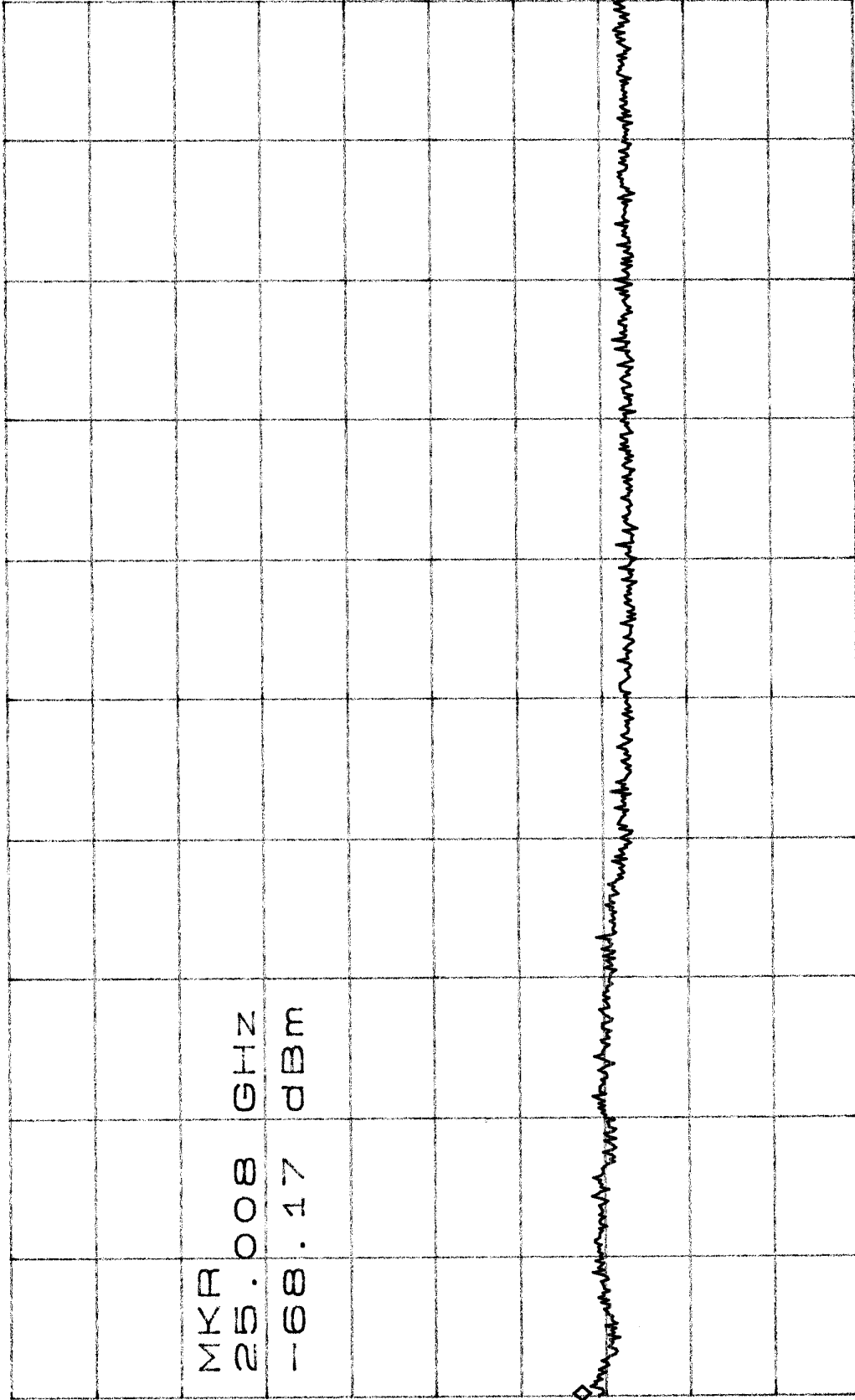


D

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



ATTN 10dB  
 RL 0dBm  
 MKR -68.17dBm  
 25.008GHZ  
 10dB/

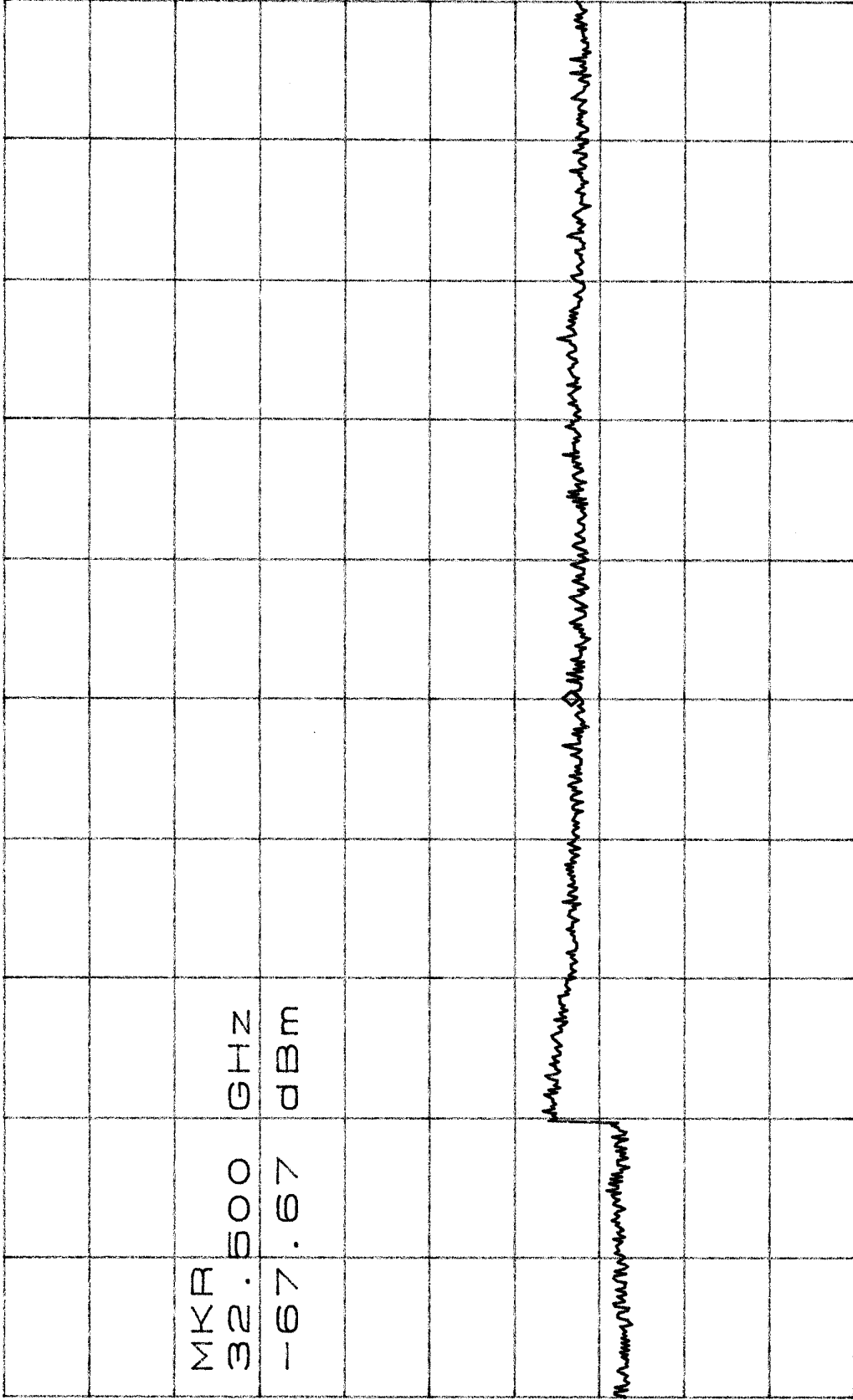


START 25.000GHZ  
 \*RBW 100KHZ  
 STOP 30.000GHZ  
 \*SWP 10.0sec  
 VBW 100KHZ





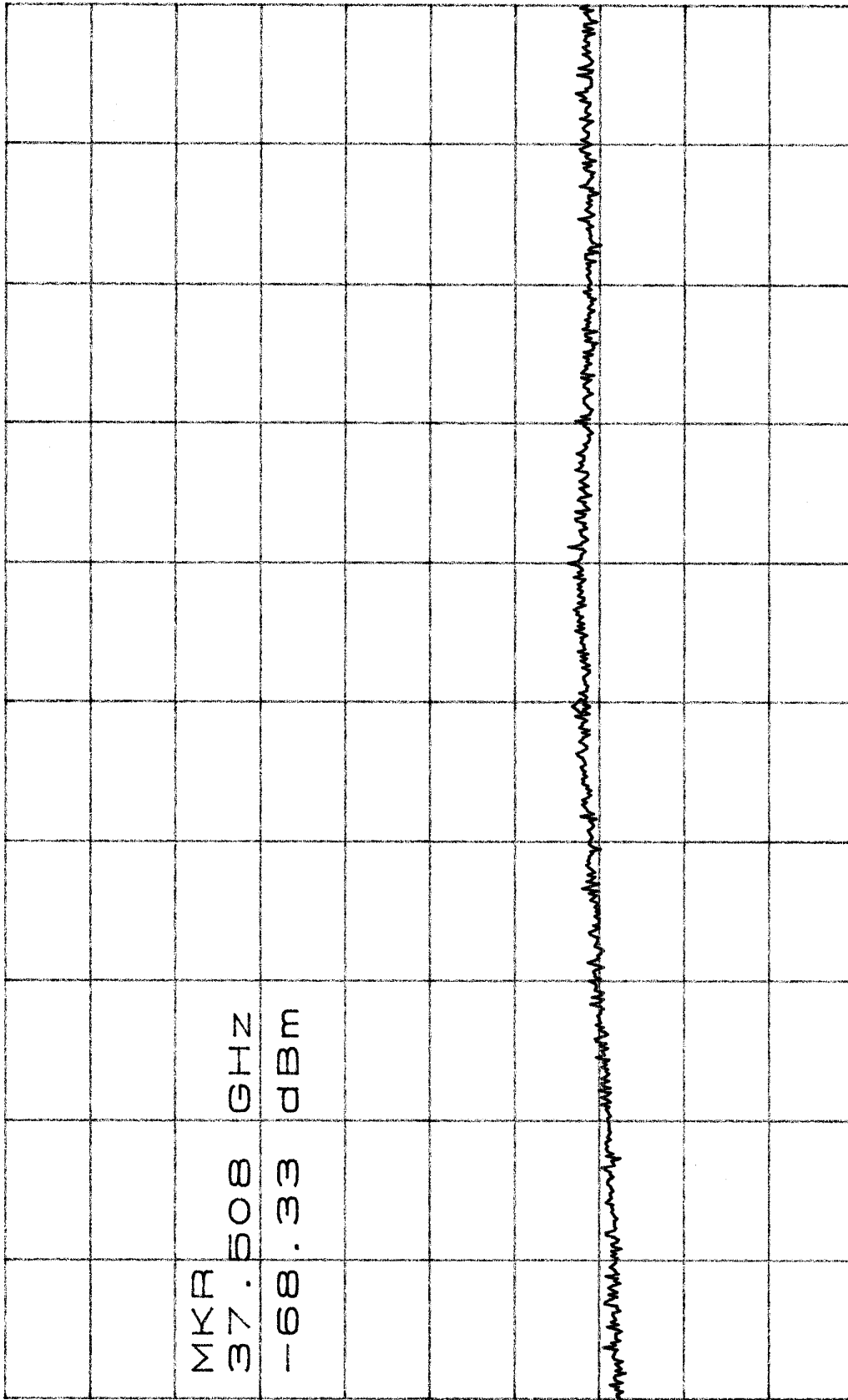
ATTEN 10dB MKR -67.67dBm  
 RL 0dBm 10dB/ 32.500GHZ



D

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

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



MKR  
37.508 GHZ  
-68.33 dBm

D

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