

**Conducted Emission Limits Test for ADC Inc.  
Digivance Long Range Coverage System  
Model Number DGVL-202120SYS.**

The out of band emissions were measured directly from the EUT antenna output with a spectrum analyzer from 30 MHz to the 10<sup>th</sup> harmonic of the highest carrier frequency. Test signals used: CW, FM (1 kHz @ 8 kHz deviation), TDMA, and CDMA. The different signals were input one at a time to the EUT. In all cases, the out of band emissions were less than -13dBm from the equation  
(19dBm - [43 + 10log(0.08W)])

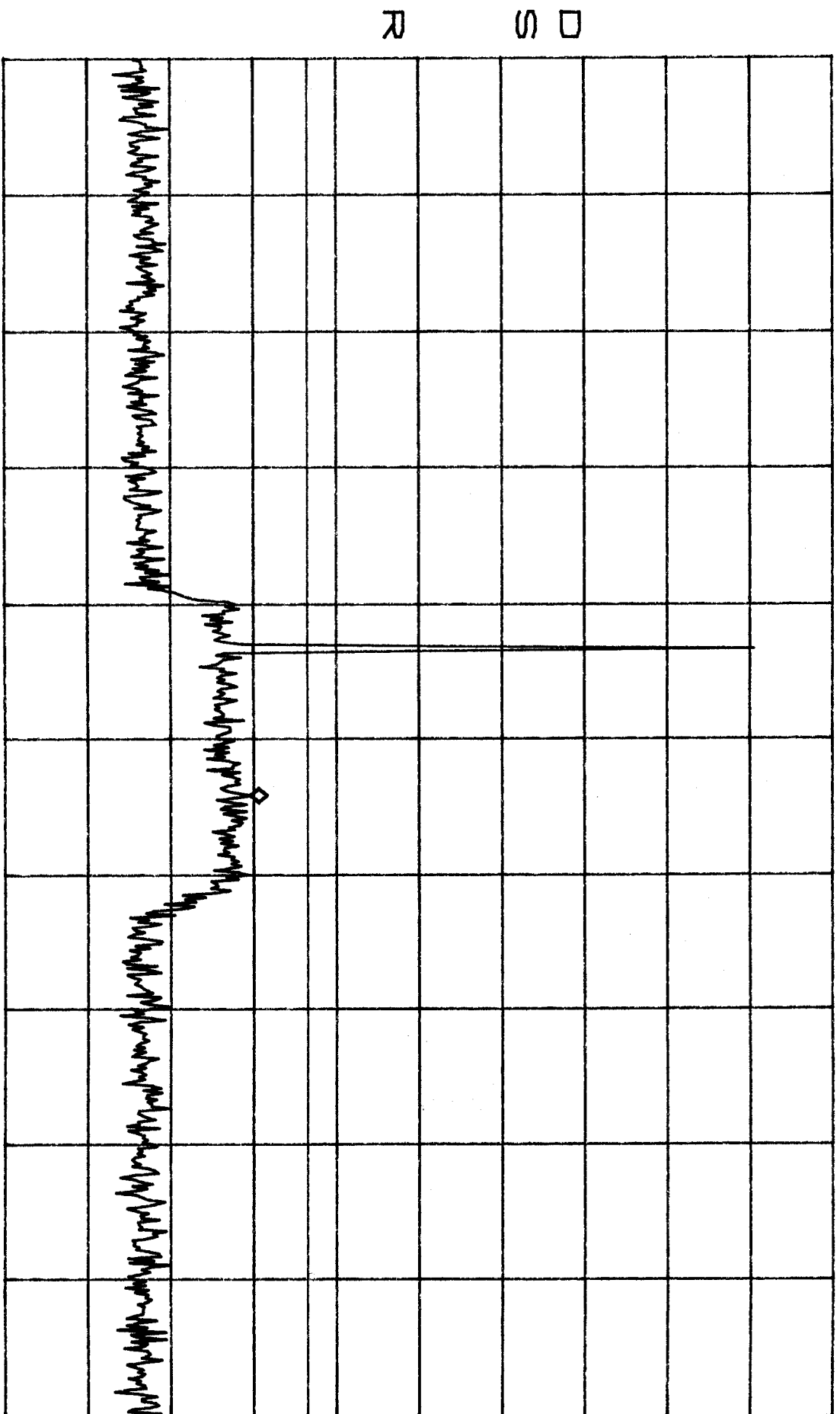
Band edge compliance is also demonstrated using a FM signal at the upper and lower limits of the band and a resolution bandwidth of 300 Hz.

**Results:**

Pass (see plots)

Conducted Emissions Band SMr  
Low

\*ATTEN 20DB  
RL 50.5DBM  
10DB/  
862.2MHZ  
MKR -19.83DBm



CENTER 858.0MHZ  
SPAN 100.0MHZ  
\*RBW 30KHZ  
VBW 30KHZ  
SWP 280ms

Conducted Emissions  
Low Band SMR

\*ATTEN 20DB

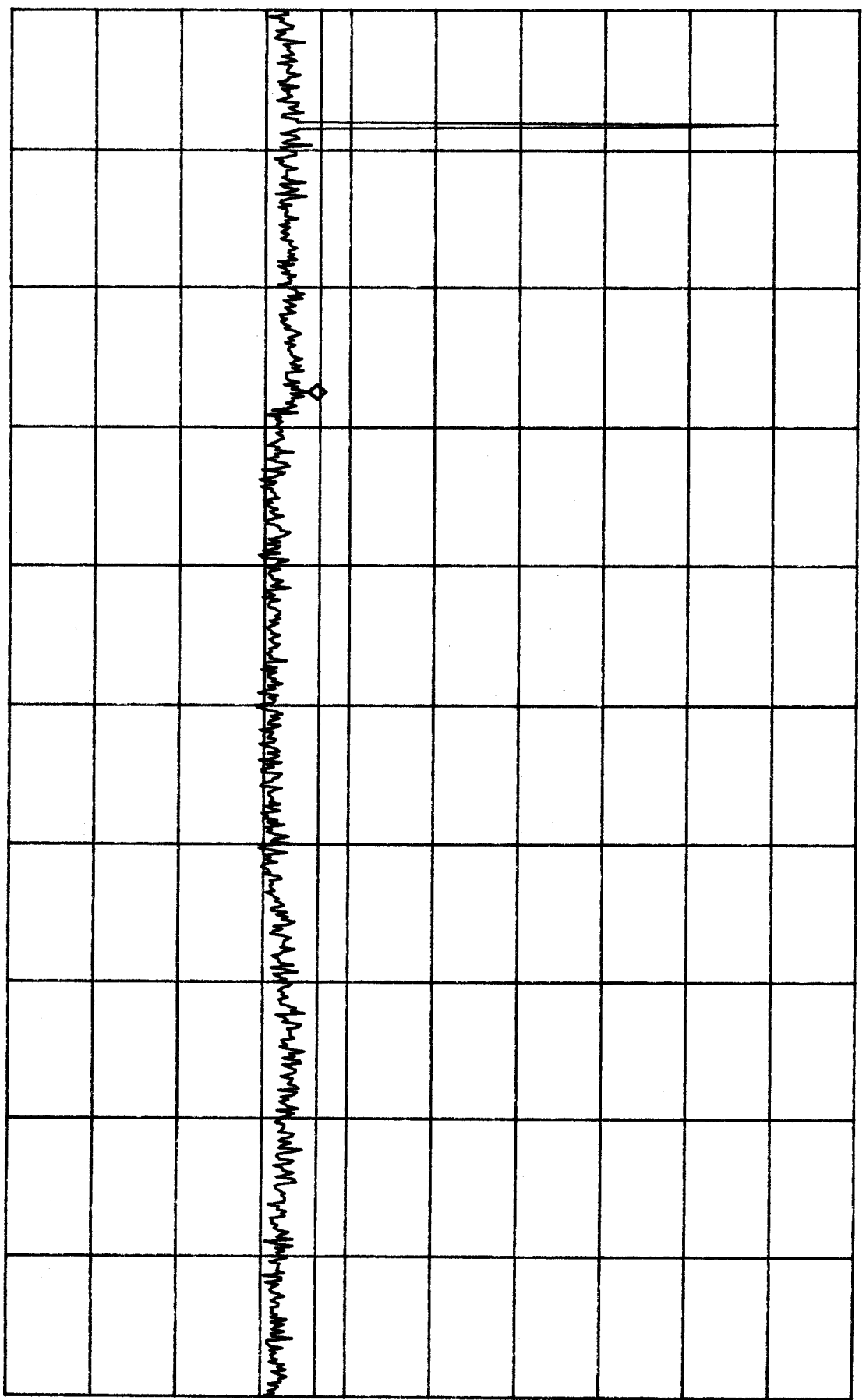
MKR -14.33DBm

RL 50.5DBm

10DB/

2.772GHZ

DSR



START 30MHZ

STOP 10.000GHZ

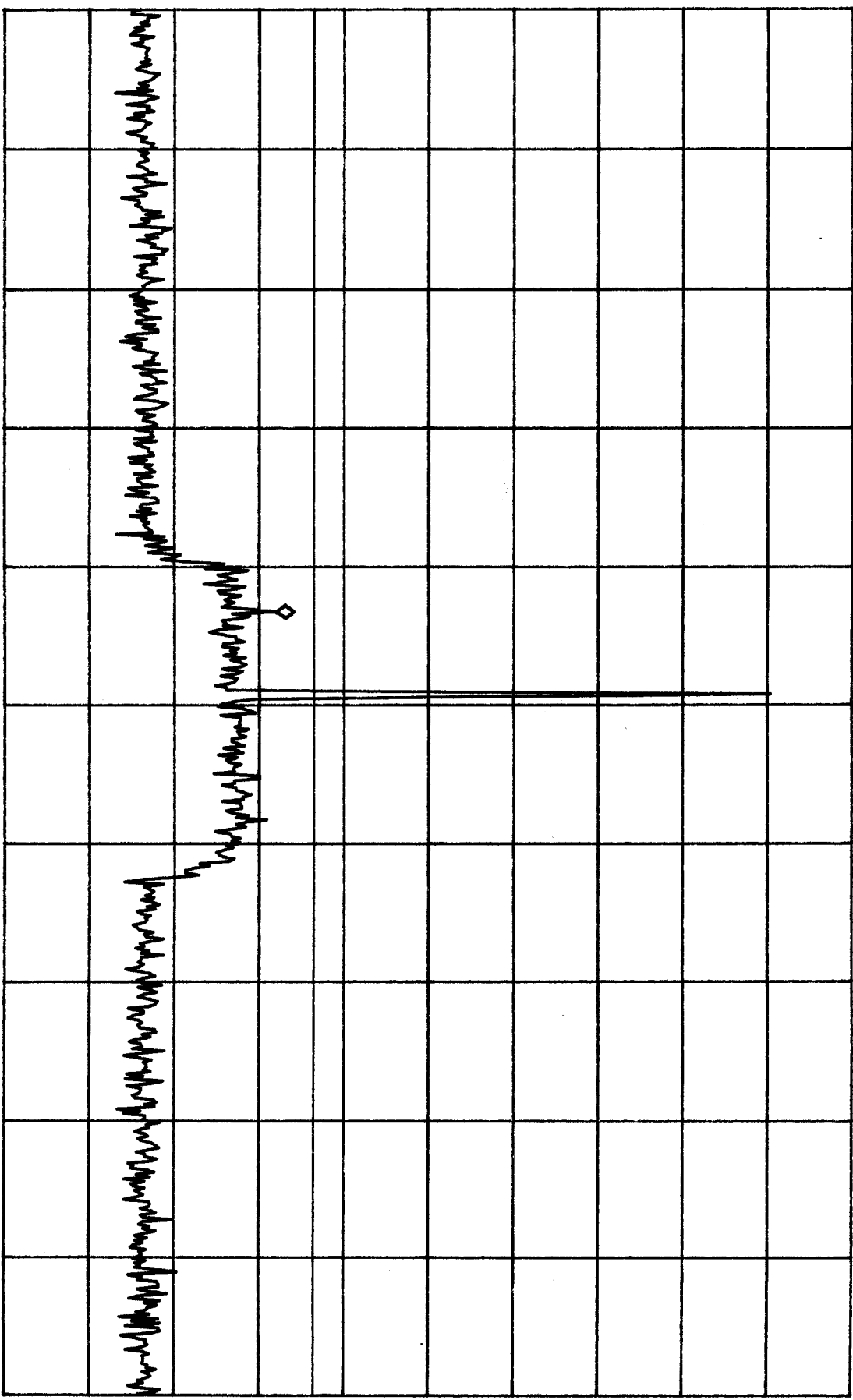
\*RBW 1.0MHZ

VBW 1.0MHZ

SWP 200ms

Conducted Emissions  
Mid Band SMR

\*ATTEN 20DB  
RL 50.5DBm  
10DB/  
MKR -17.33DBm  
851.3MHZ



D S R

CENTER 858.0MHZ  
SPAN 100.0MHZ  
\*RBW 30KHZ  
VBW 30KHZ  
SWP 280ms

Conducted Emissions Band 5mR  
Mid

\*ATTEN 20DB

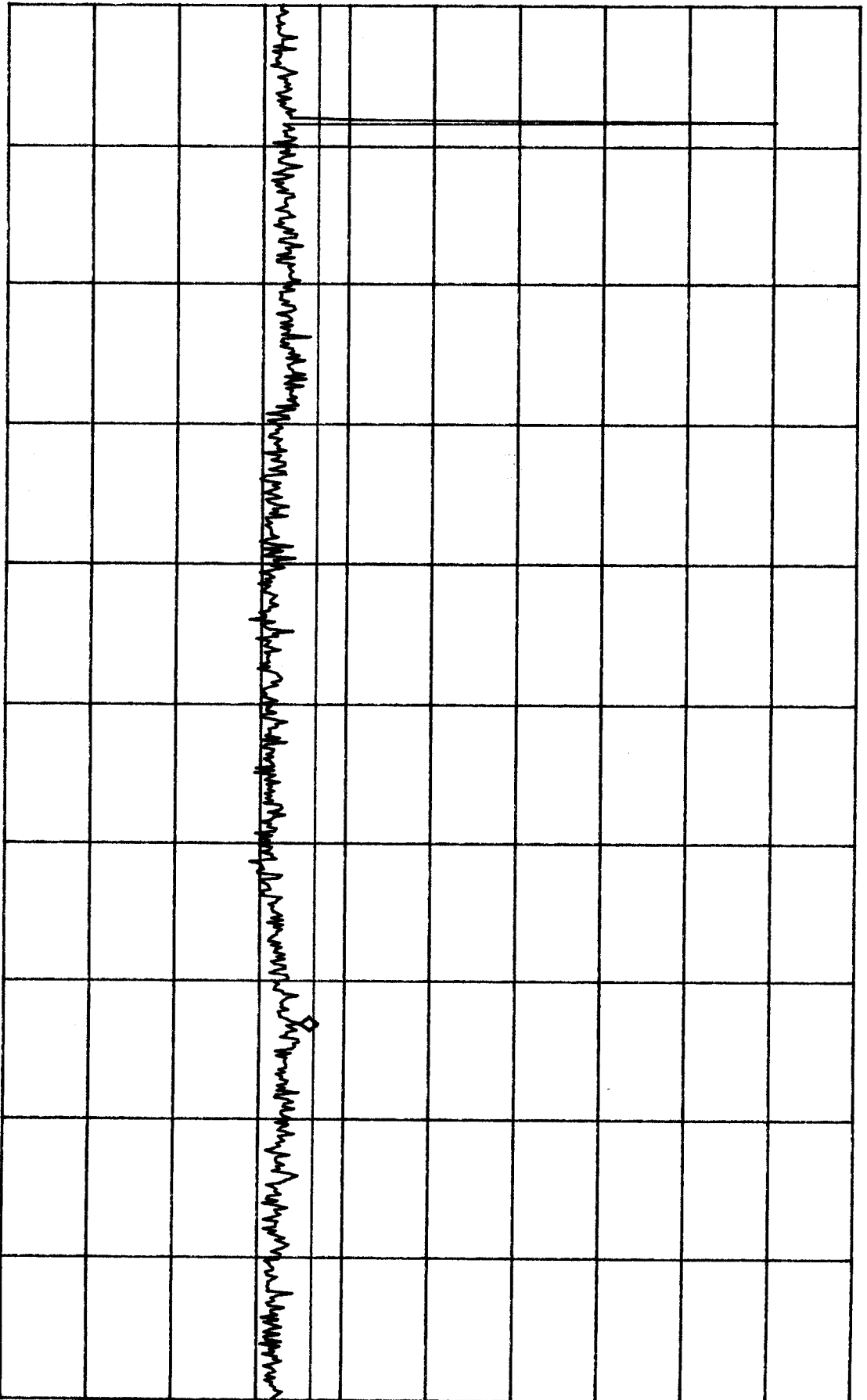
MKR -14.50DBM

RL 50.5DBM

10DB/

7.325GHZ

0 5 10



START 30MHZ

STOP 10.000GHZ

\*RBW 1.0MHZ

VBW 1.0MHZ

SWP 200ms

Conducted Emissions Band 5mk  
High

\*ATTEN 20DB

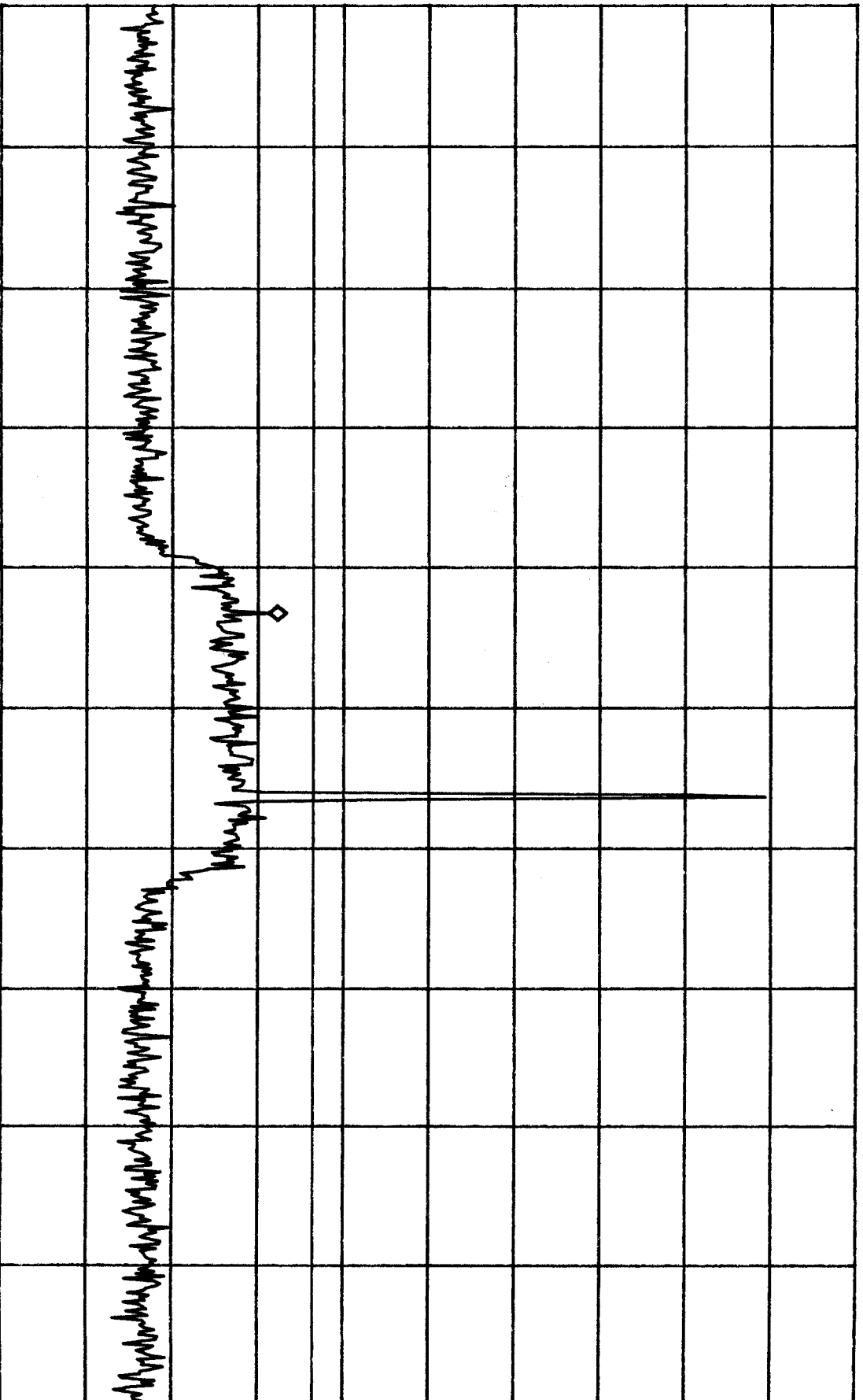
MKR -18.17DBm

RL 50.5DBm

10DB/

851.3MHZ

DIS



CENTER 858.0MHZ

SPAN 100.0MHZ

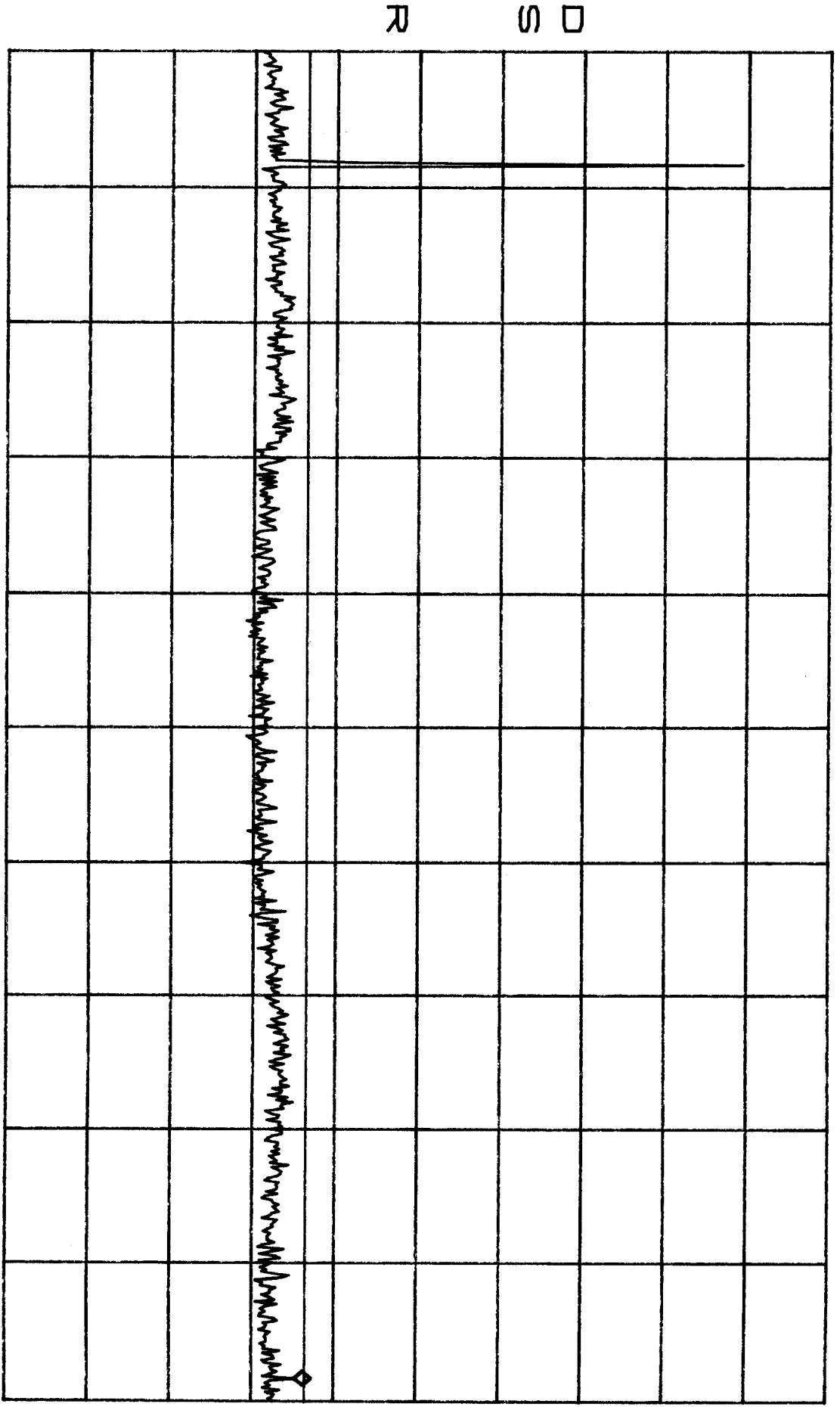
\*RBW 30KHZ

VBW 30KHZ

SWP 280ms

Conducted Emissions Band SMR  
High

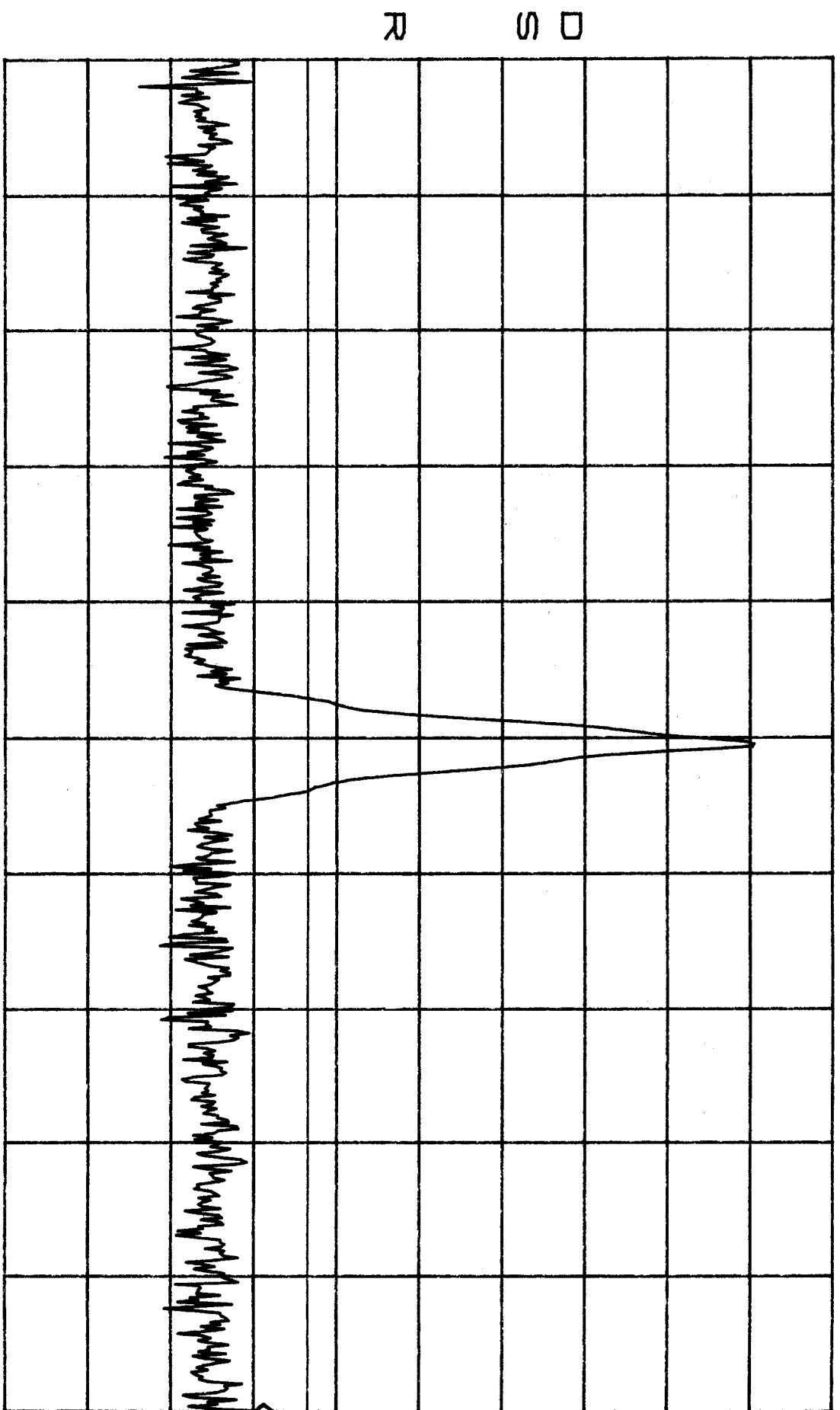
\*ATTEN 20DB  
RL 50.5DBM  
10DB/  
MKR -14.17DBM  
9.834GHZ



START 30MHZ  
STOP 10.000GHZ  
\*RBW 1.0MHZ  
VBW 1.0MHZ  
SWP 200ms

Conducted Emissions Band SMC  
FM

\*ATTEN 20DB  
RL 50.5DBm 10DB/ 860.500MHZ  
MKR -19.17DBm



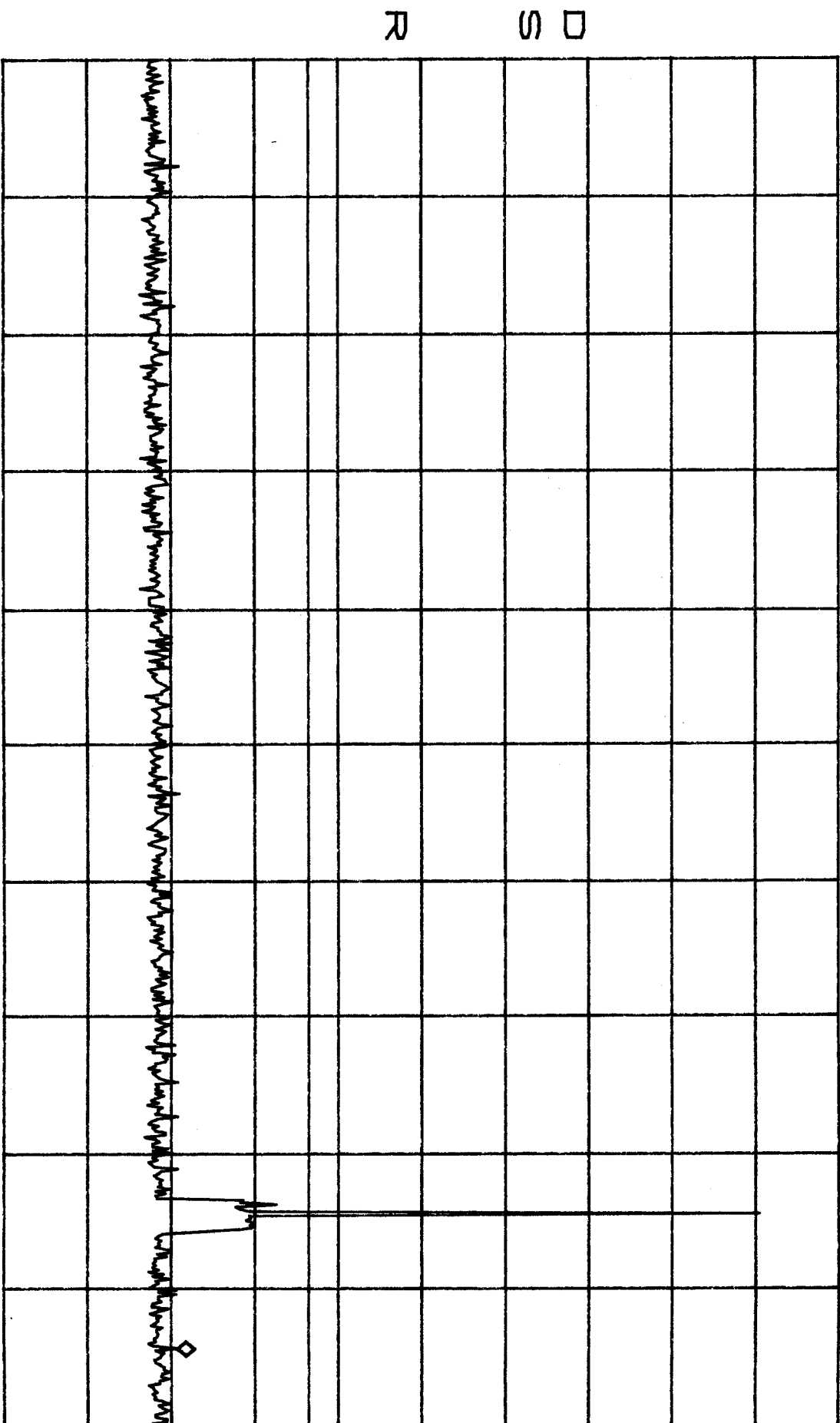
DS  
R

CENTER 858.000MHZ SPAN 5.000MHZ  
\*RBW 30KHZ VBW 30KHZ SWP 50ms



Conducted Emissions Band 5M  
FM

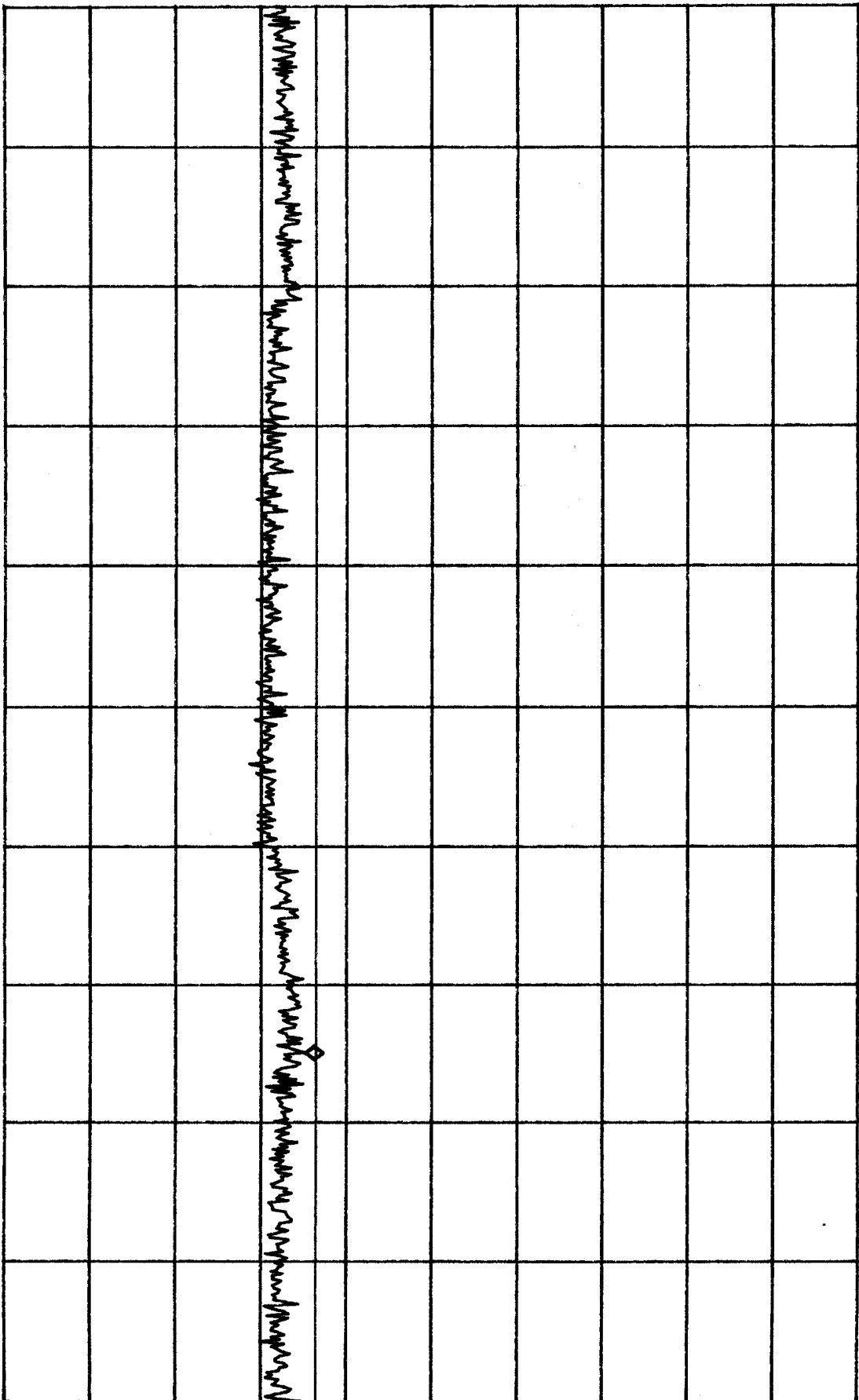
\*ATTEN 20DB  
RL 50.5DBm  
10DB/  
MKR -28.67DBm  
945.0MHZ



START 30.0MHZ STOP 1.0000GHZ  
\*RBW 30KHZ VBW 30KHZ SWP 2.7sec

Conducted Emissions Band Swe  
 FM

\*ATTEN 20DB  
 RL 50.5DBm 10DB/ 7.750GHZ MKR -14.17DBm



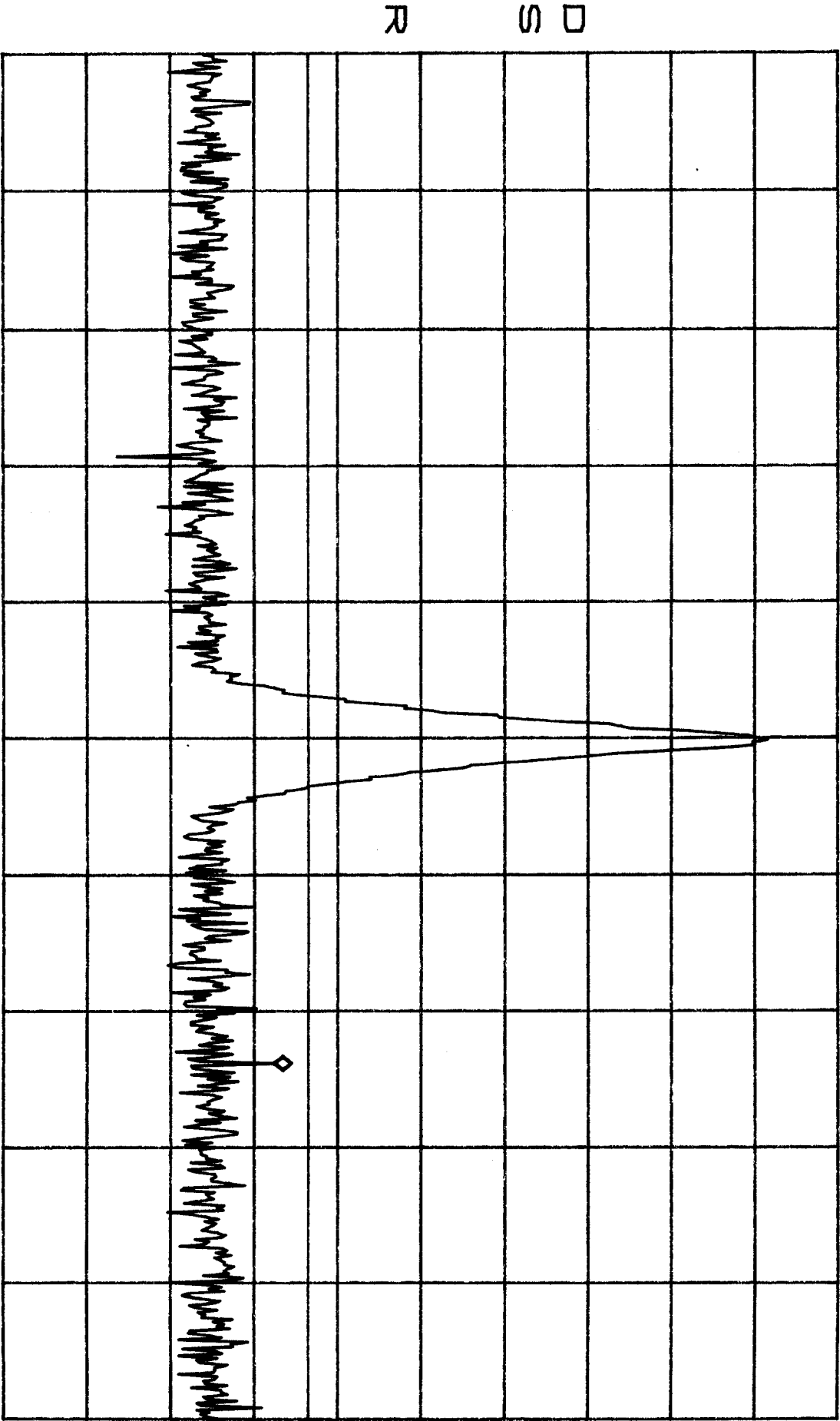
R S

START 1.000GHZ STOP 10.000GHZ  
 \*RBW 1.0MHZ VBW 1.0MHZ SWP 180ms

Conducted Emissions Band Sme  
TDM A

\*ATTEN 20DB  
RL 50.5DBM  
10DB/

MKR -17.00DBM  
859.192MHZ

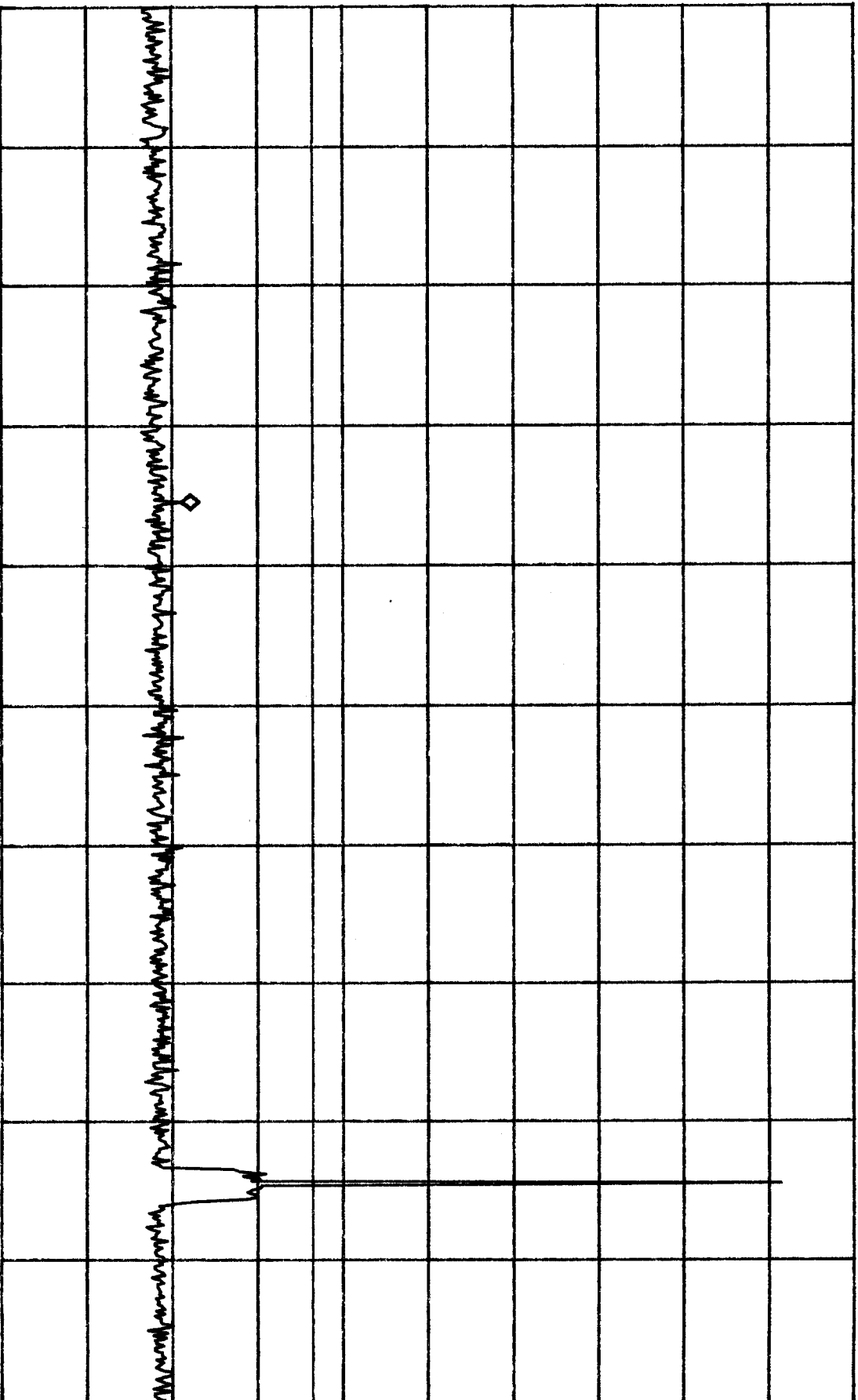


0  
5  
R

CENTER 858.000MHZ  
SPAN 5.000MHZ  
\*RBW 30KHZ  
VBW 30KHZ  
SWP 50ms

Conducted Emissions Band Swe  
TDMR

\*ATTEN 20DB      MKR -28.33DBm  
RL 50.5DBm      10DB/      374.4MHZ



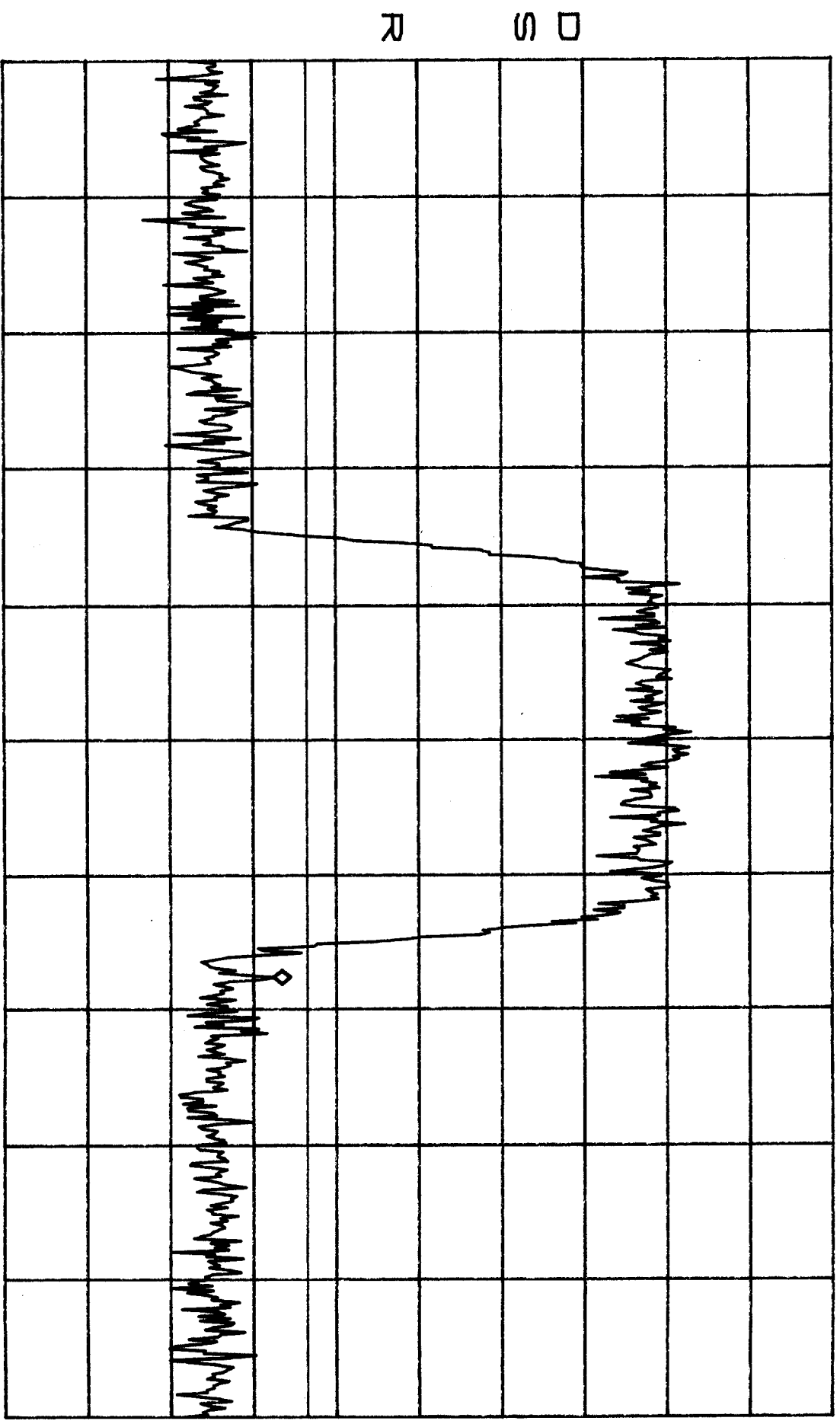
U  
R

START 30.0MHZ      STOP 1.0000GHZ  
\*RBW 30KHZ      VBW 30KHZ      SWP 2.7sec



Conducted Emissions Band Swe  
CDMA

\*ATTEN 20DB  
RL 50.5DBm 10DB/ 858.883MHz  
MKR -17.00DBm

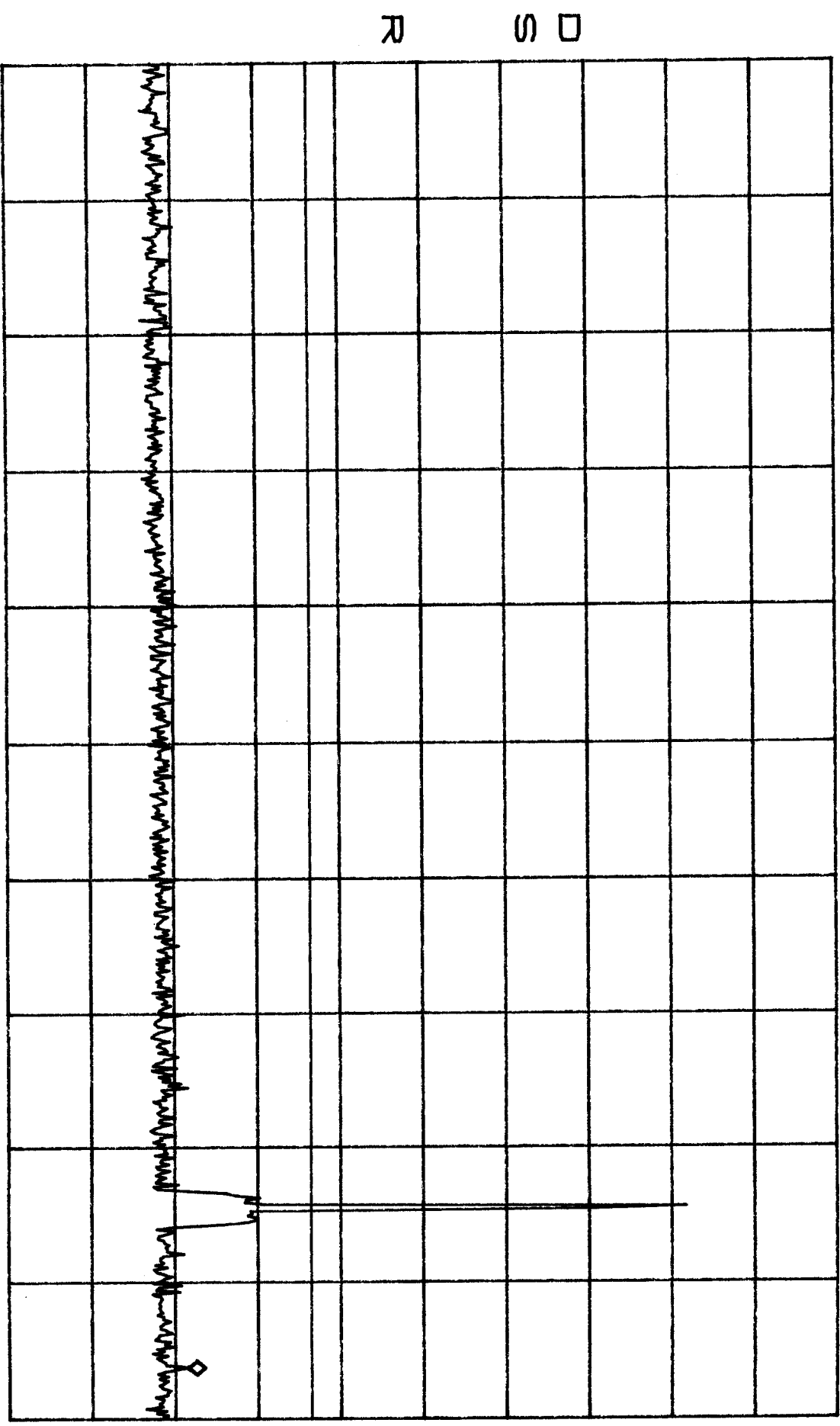


D S  
R

CENTER 858.000MHz SPAN 5.000MHz  
\*RBW 30kHz VBW 30kHz SWP 50ms

Conducted Emissions Band Swe  
CDMA

\*ATTEN 20DB  
RL 50.5DBm  
10DB/  
MKR -27.83DBm  
964.4MHZ



START 30.0MHZ  
STOP 1.0000GHZ  
\*RBW 30KHZ  
VBW 30KHZ  
SWP 2.7sec

Conducted Emissions Band 5Mc  
CDMA

\*ATTEN 20DB

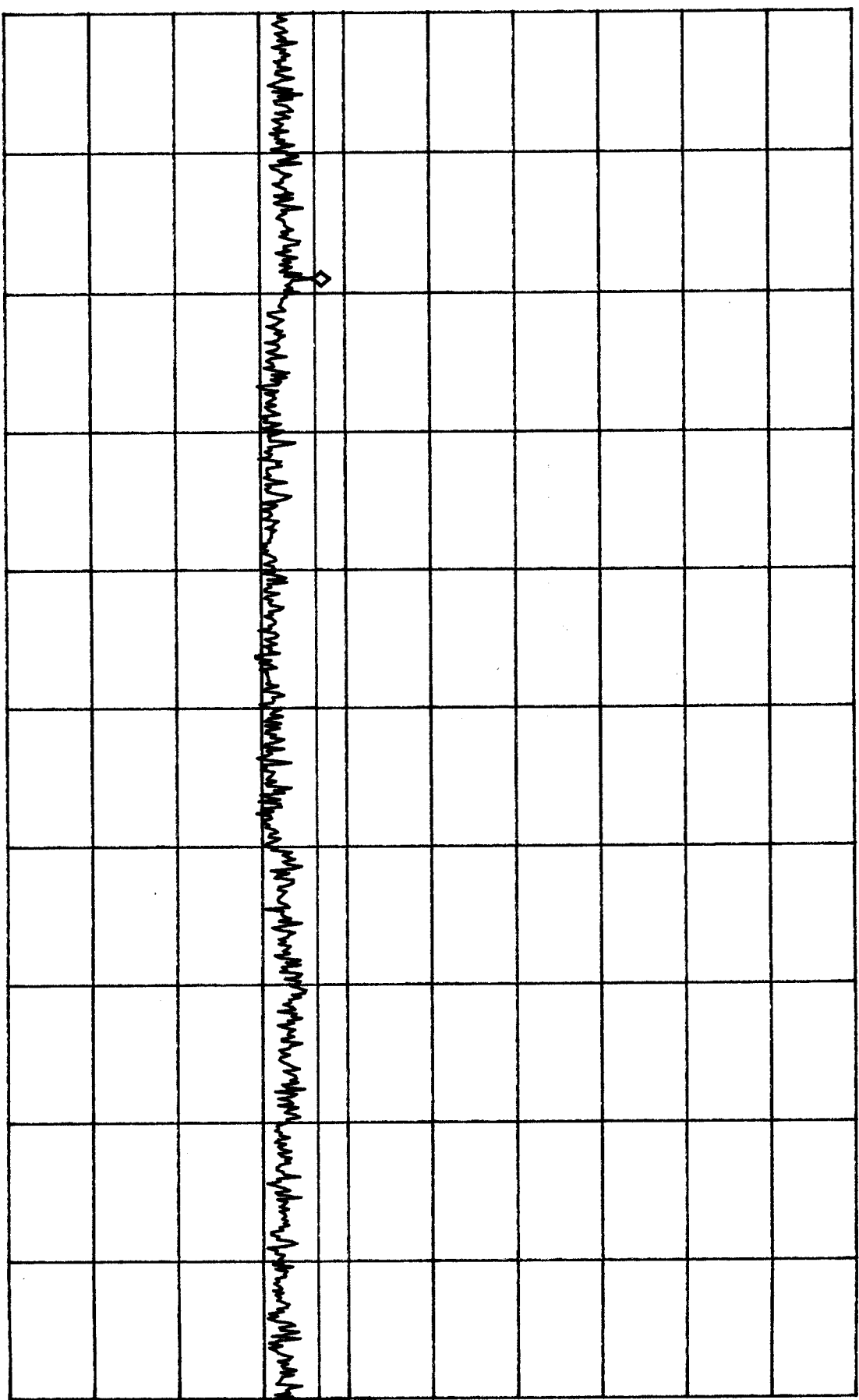
MKR -13.17DBM

RL 50.5DBM

10DB/

2.710GHZ

DS  
R



START 1.000GHZ

STOP 10.000GHZ

\*RBW 1.0MHZ

VBW 1.0MHZ

SWP 180ms



Conducted Emissions Band Edge FM Band Sme

\*ATTEN 20DB

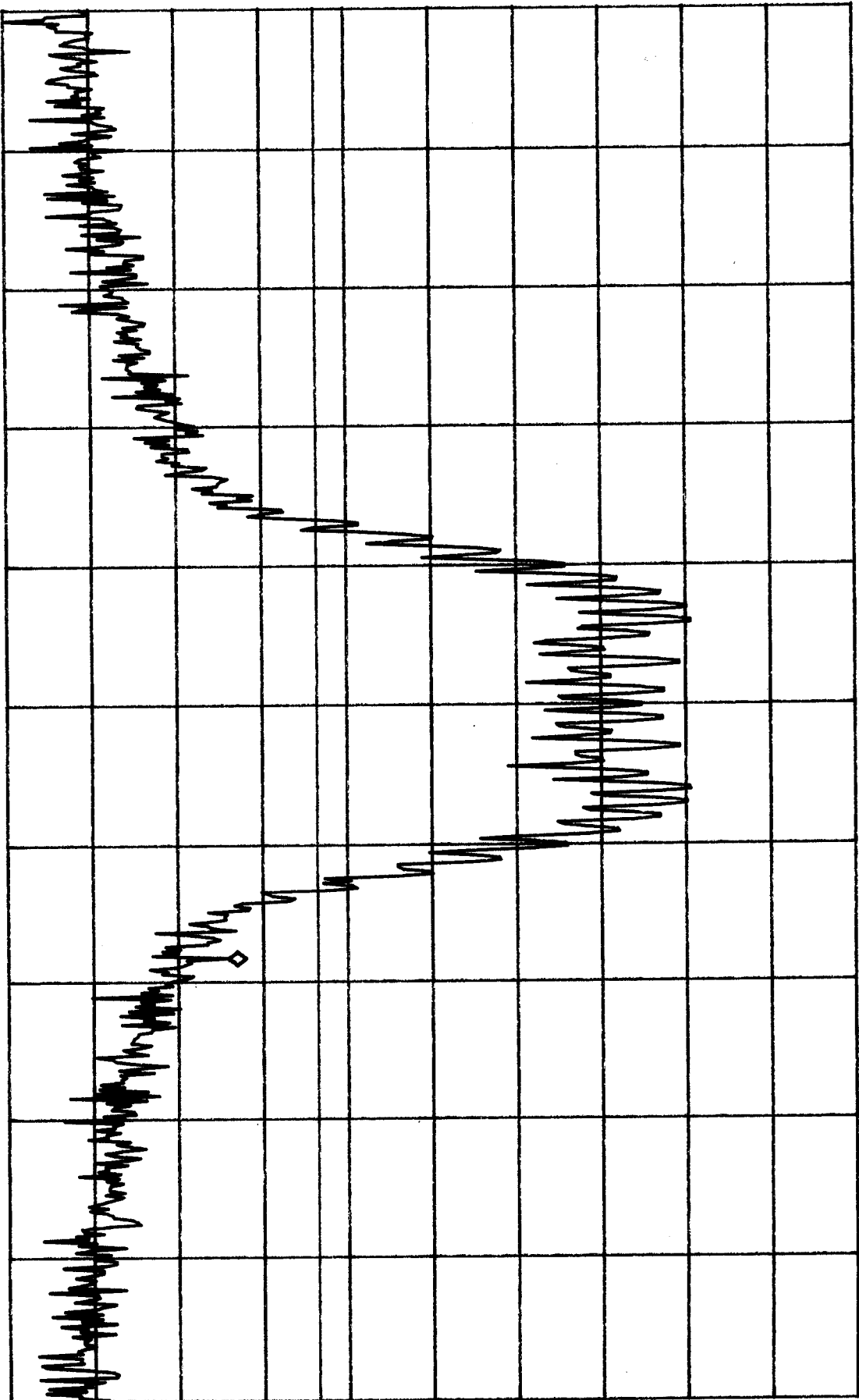
MKR -23.50DBm

RL 50.5DBm

10DB/

851.2183MHZ

DSR



CENTER 851.200MHZ SPAN 100.0KIN  
\*RBW 300HZ VBW 300HZ SWP 2.8sec

Conducted Emissions Band Edge FM Band SpR

\*ATTEN 20DB

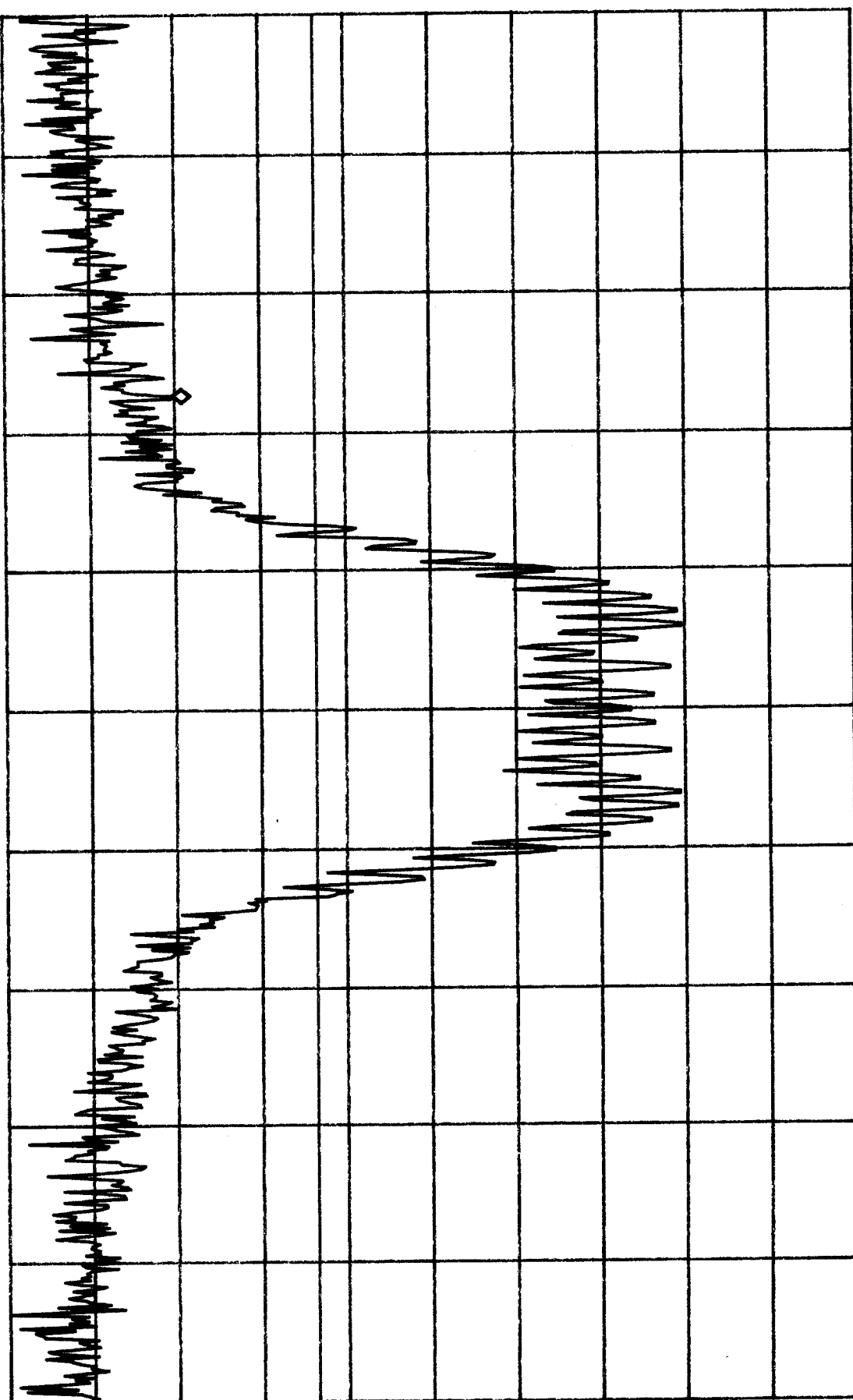
MKR -29.67DBM

RL 50.5DBM

10DB/

865.7773MHZ

DSR



CENTER 865.800MHZ

SPAN 100.0KHZ

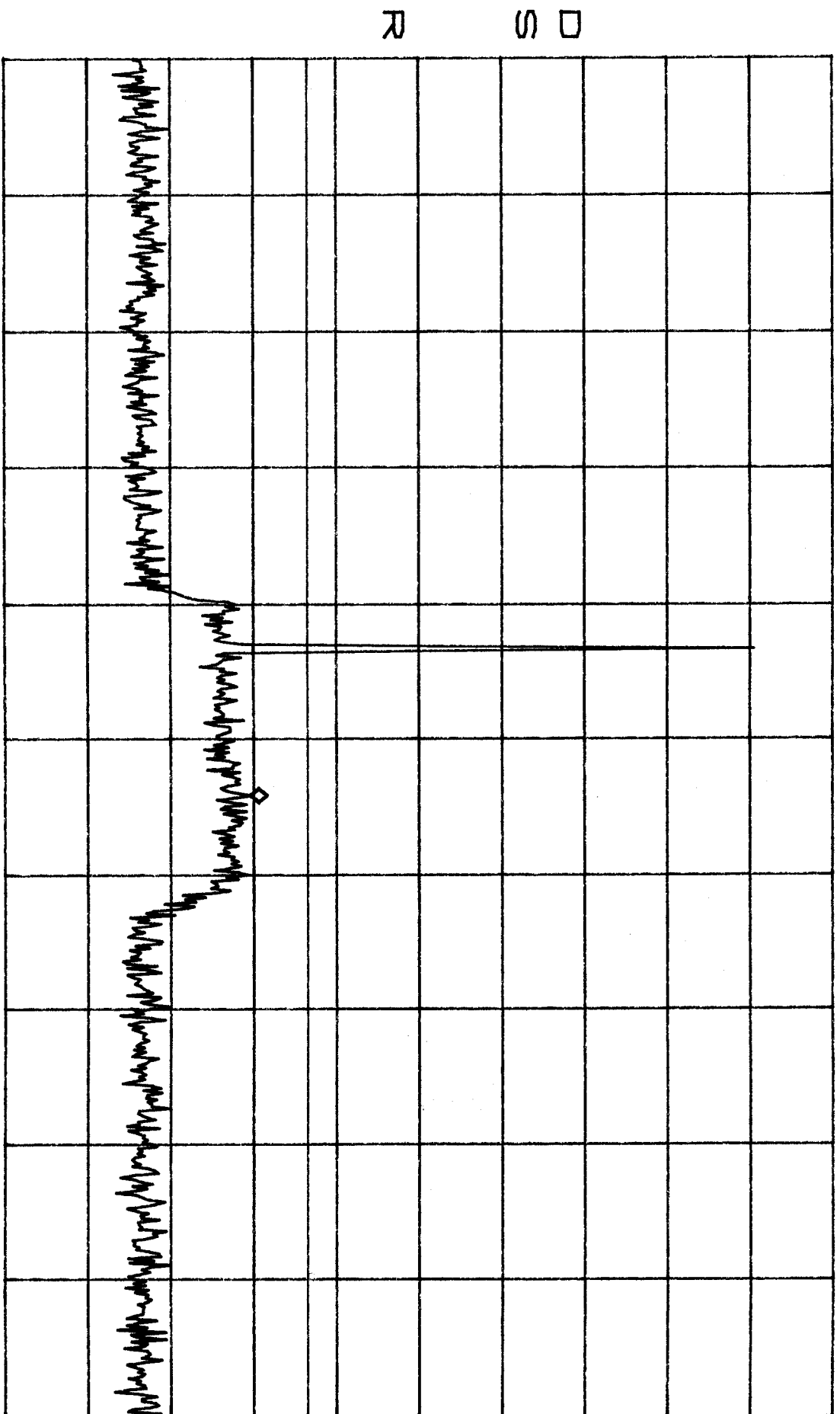
\*RBW 300HZ

VBW 300HZ

SWP 2.8sec

Conducted Emissions Band SMr  
Low

\*ATTEN 20DB  
RL 50.5DBM  
10DB/  
862.2MHZ  
MKR -19.83DBm



CENTER 858.0MHZ  
SPAN 100.0MHZ  
\*RBW 30KHZ  
VBW 30KHZ  
SWP 280ms

Conducted Emissions  
Low Band SMR

\*ATTEN 20DB

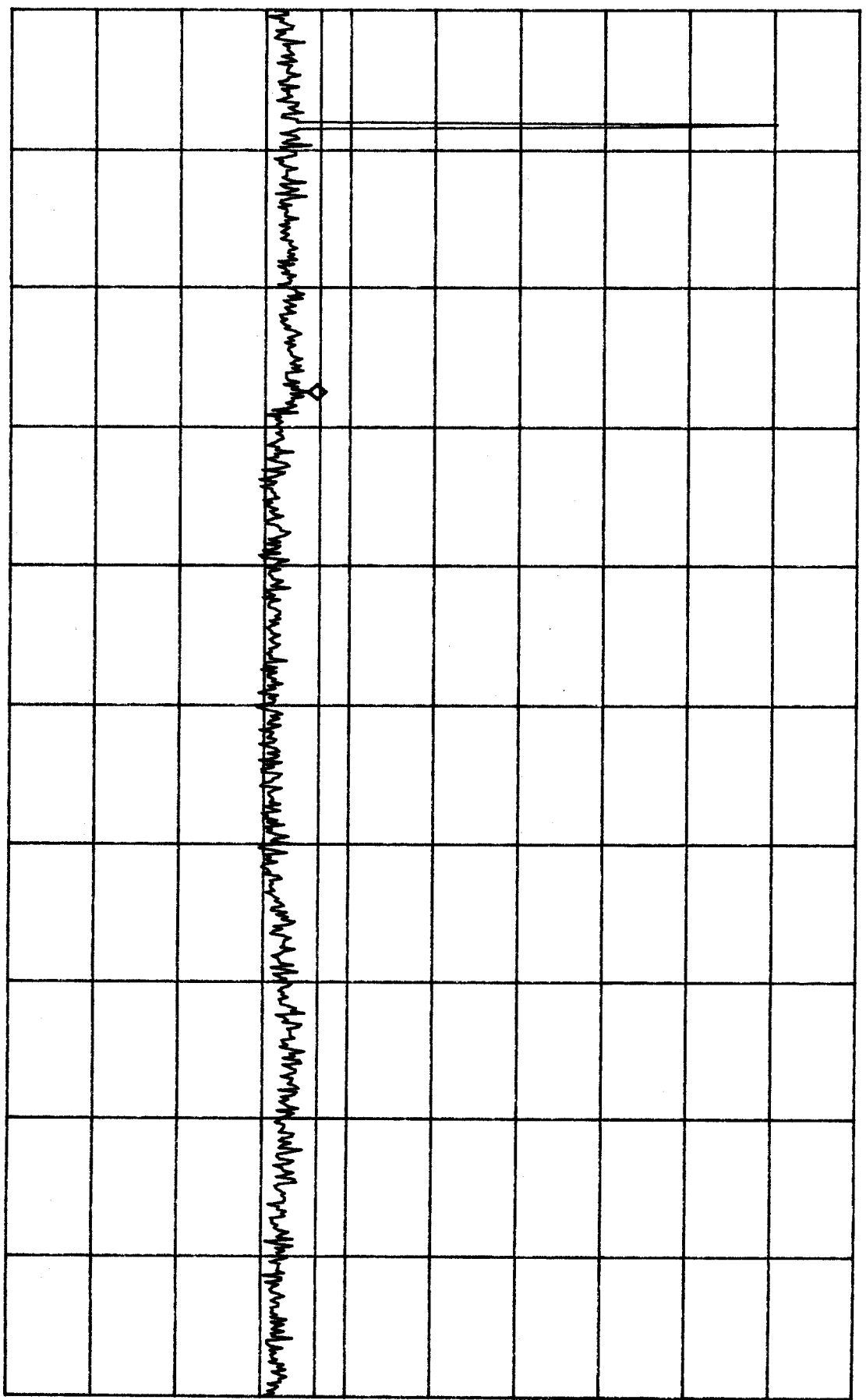
MKR -14.33DBm

RL 50.5DBm

10DB/

2.772GHZ

DSR



START 30MHZ

STOP 10.000GHZ

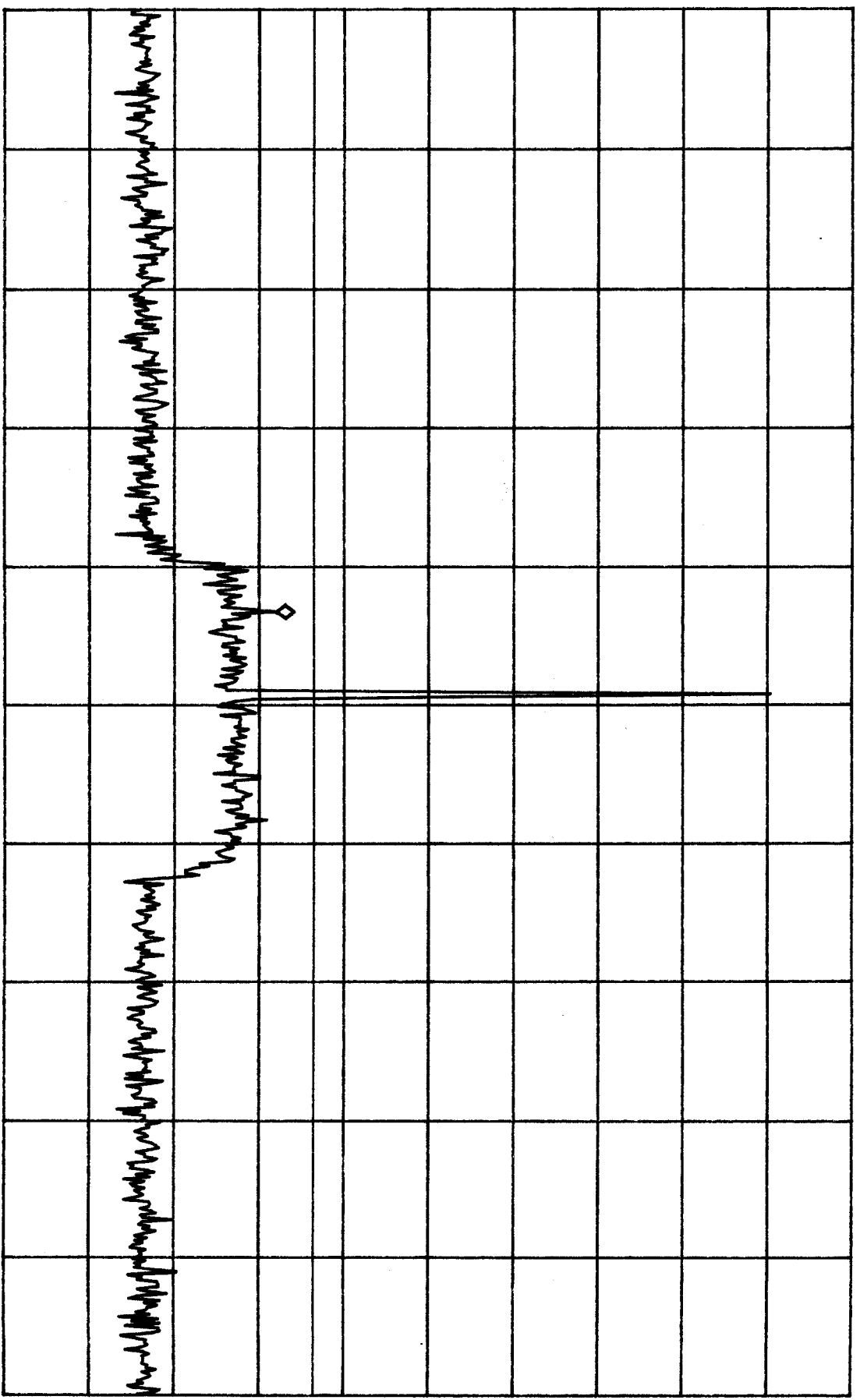
\*RBW 1.0MHZ

VBW 1.0MHZ

SWP 200ms

Conducted Emissions Band SMR  
Mid

\*ATTEN 20DB  
RL 50.5DBm  
10DB/  
MKR -17.33DBm  
851.3MHZ



DS  
R

CENTER 858.0MHZ  
SPAN 100.0MHZ  
\*RBW 30KHZ  
VBW 30KHZ  
SWP 280ms

Conducted Emissions Band 5mR  
Mid

\*ATTEN 20DB

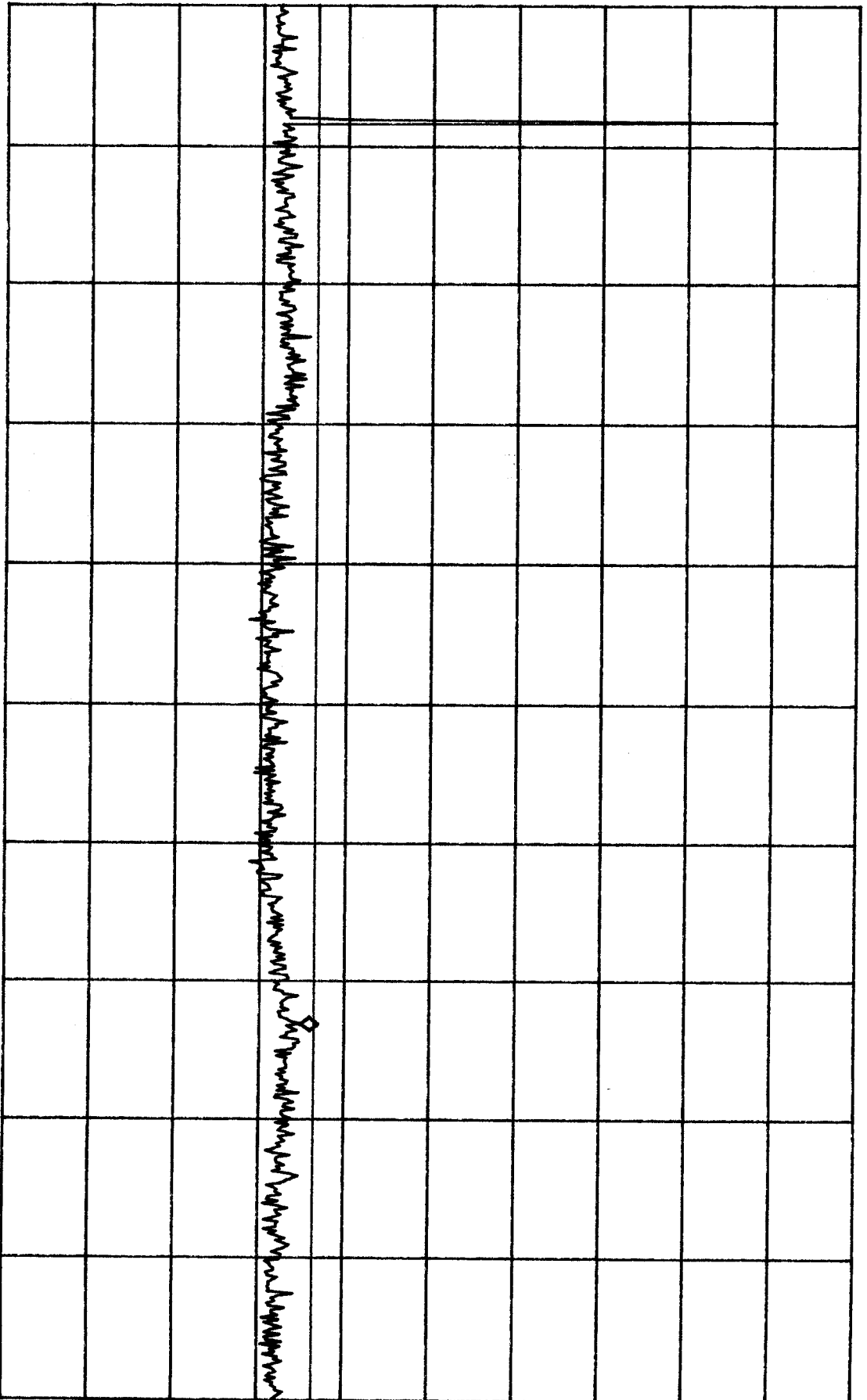
MKR -14.50DBM

RL 50.5DBM

10DB/

7.325GHZ

RSR



START 30MHZ

STOP 10.000GHZ

\*RBW 1.0MHZ

VBW 1.0MHZ

SWP 200ms

Conducted Emissions Band 5mk  
High

\*ATTEN 20DB

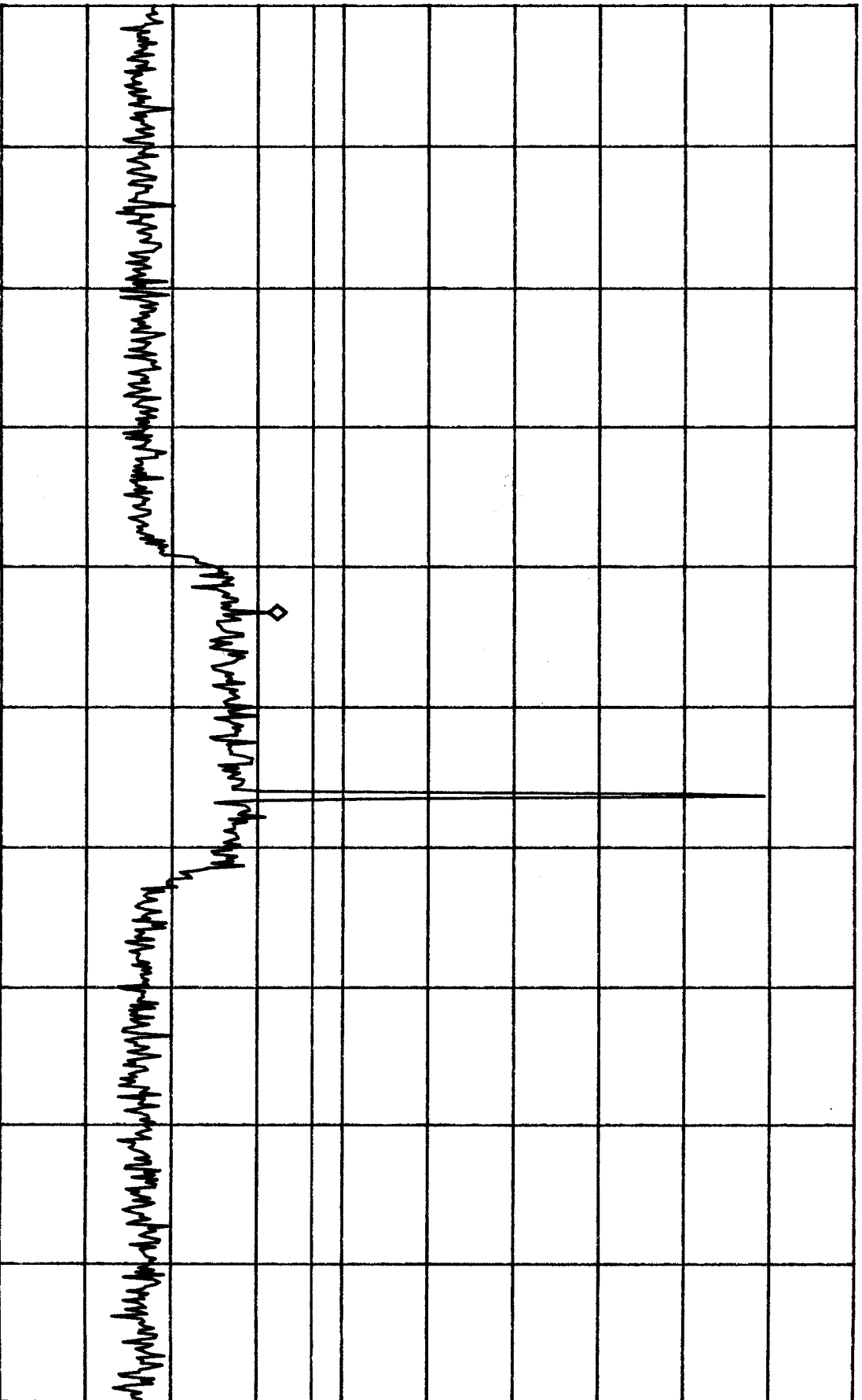
MKR -18.17DBm

RL 50.5DBm

10DB/

851.3MHZ

DIS



CENTER 858.0MHZ

SPAN 100.0MHZ

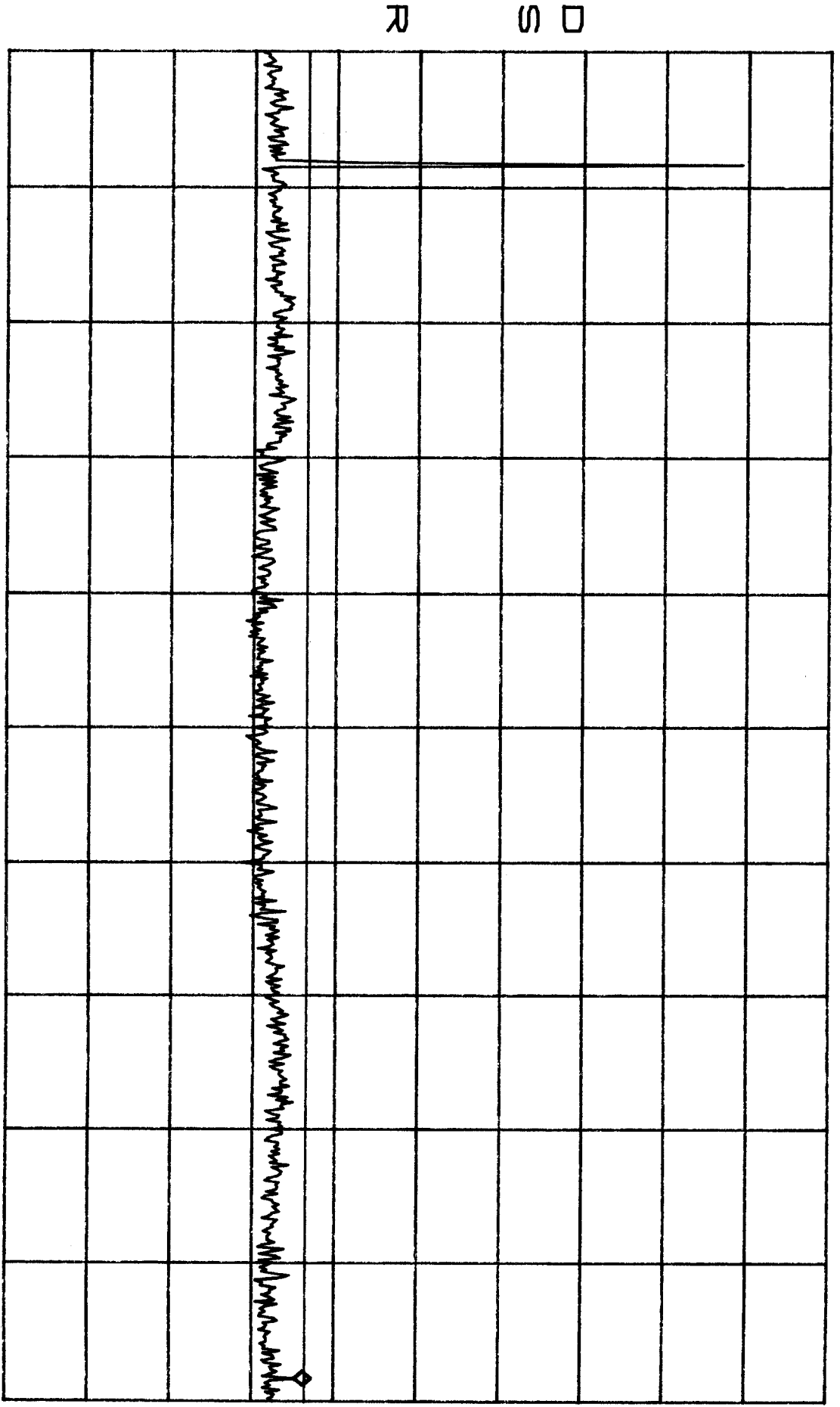
\*RBW 30KHZ

VBW 30KHZ

SWP 280ms

Conducted Emissions Band SMR  
High

\*ATTEN 20DB  
RL 50.5DBM  
10DB/  
MKR -14.17DBM  
9.834GHZ

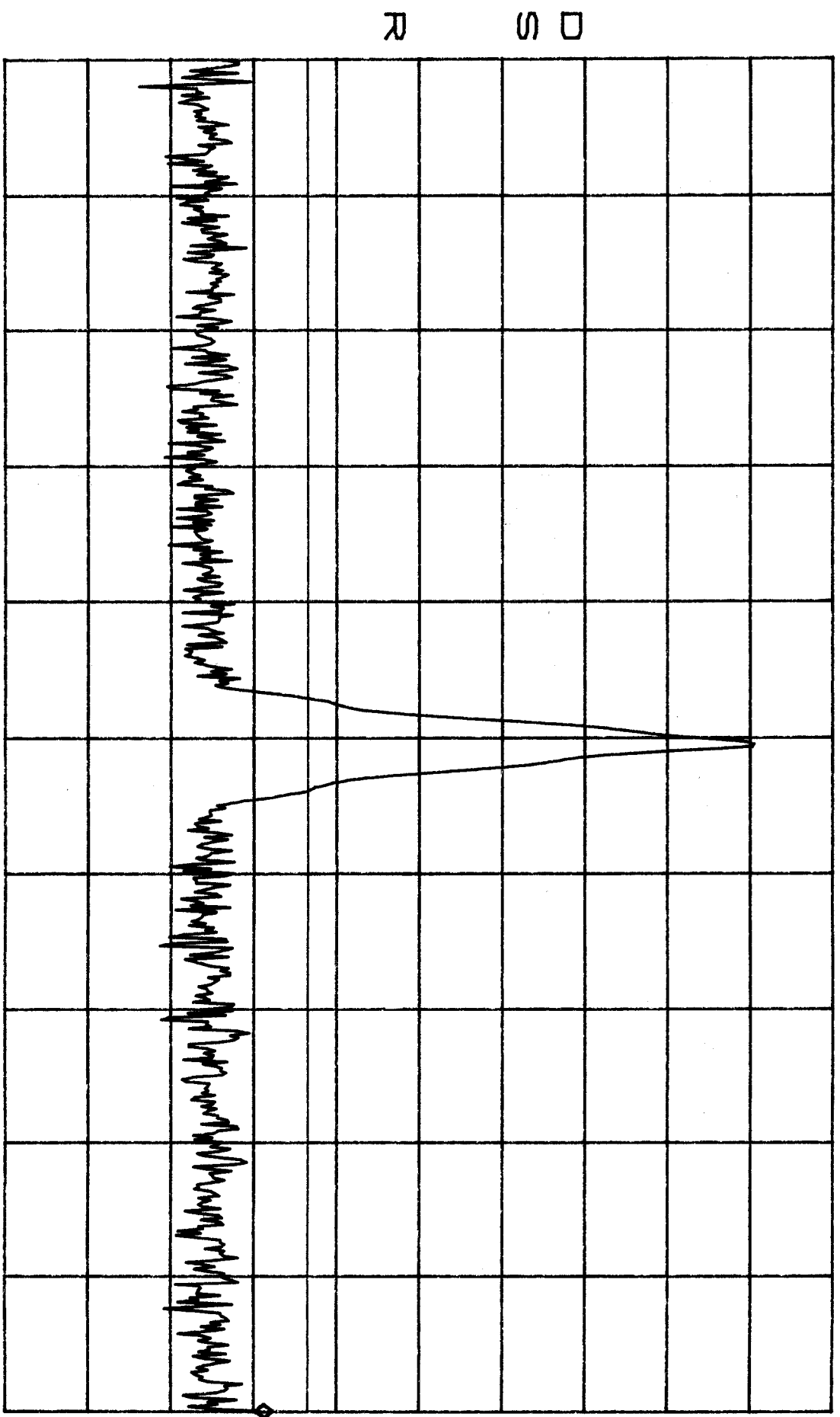


START 30MHZ  
STOP 10.000GHZ  
\*RBW 1.0MHZ  
VBW 1.0MHZ  
SWP 200ms



Conducted Emissions Band SMC  
FM

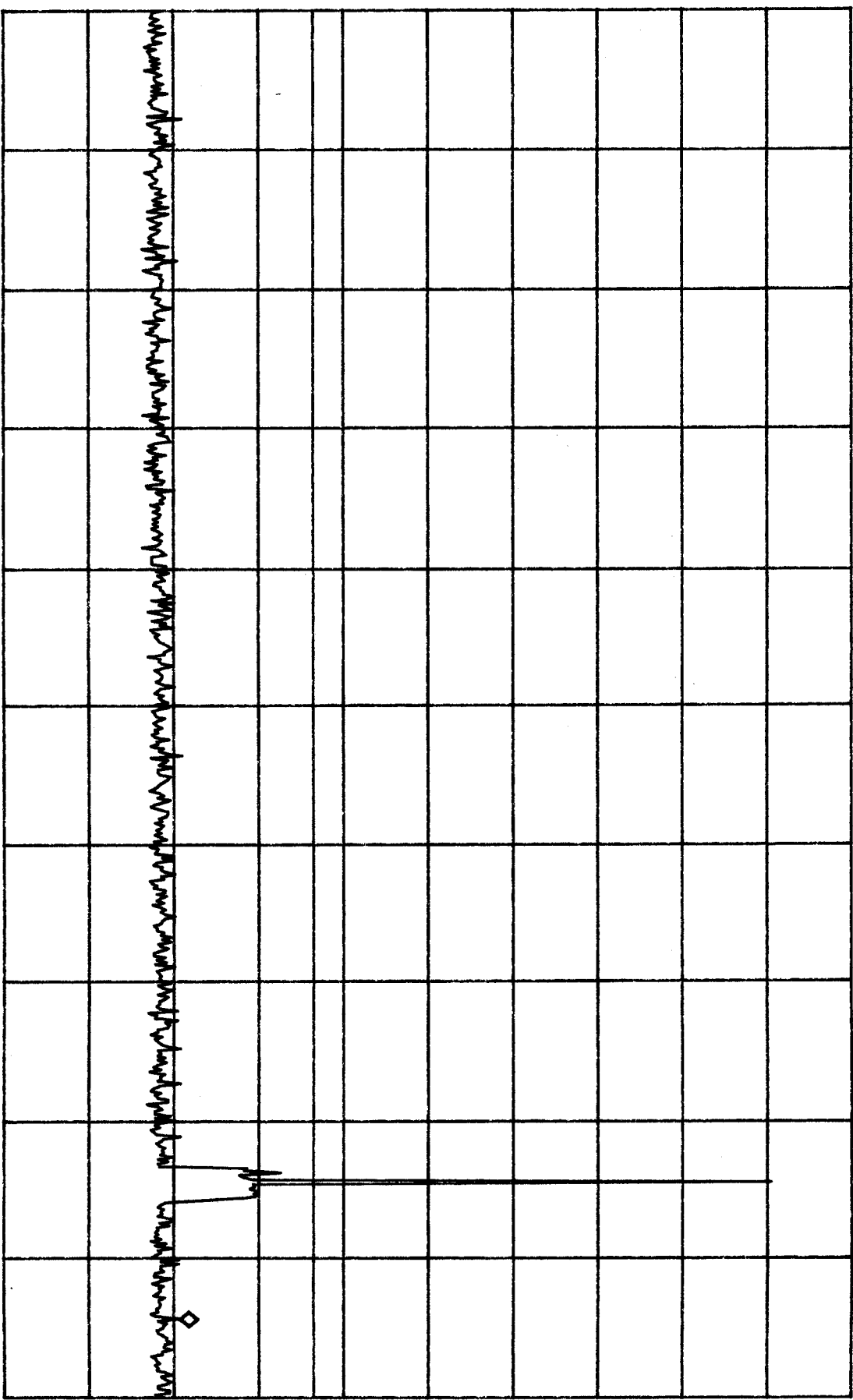
\*ATTEN 20DB  
RL 50.5DBm 10DB/ 860.500MHZ  
MKR -19.17DBm



CENTER 858.000MHZ SPAN 5.000MHZ  
\*RBW 30KHZ VBW 30KHZ SWP 50ms

Conducted Emissions Band 5M  
FM

\*ATTEN 20DB  
RL 50.5DBm  
10DB/  
MKR -28.67DBm  
945.0MHZ

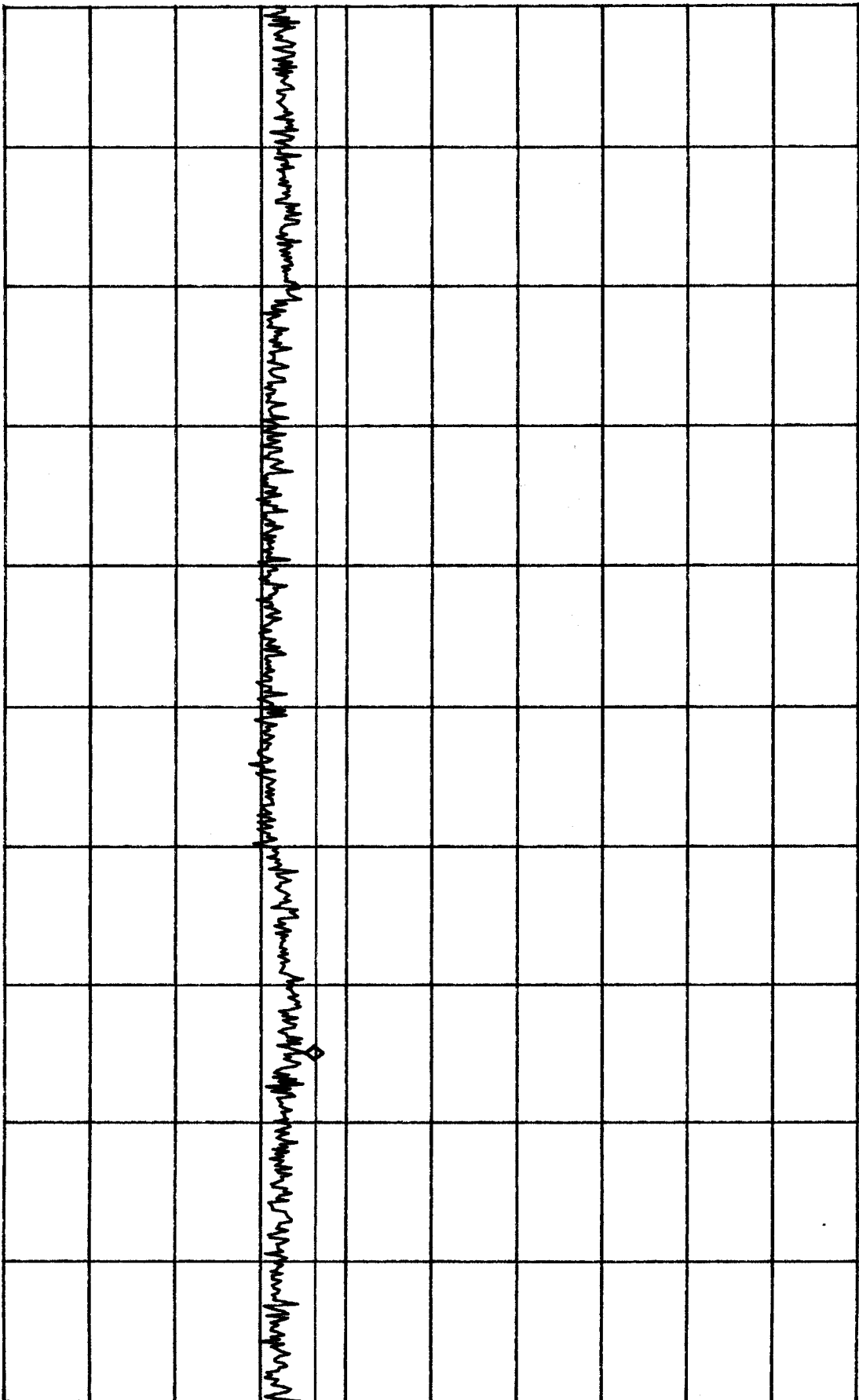


R

START 30.0MHZ STOP 1.0000GHZ  
\*RBW 30KHZ VBW 30KHZ SWP 2.7sec

Conducted Emissions Band Swe  
 FM

\*ATTEN 20DB  
 RL 50.5DBm 10DB/ 7.750GHZ MKR -14.17DBm

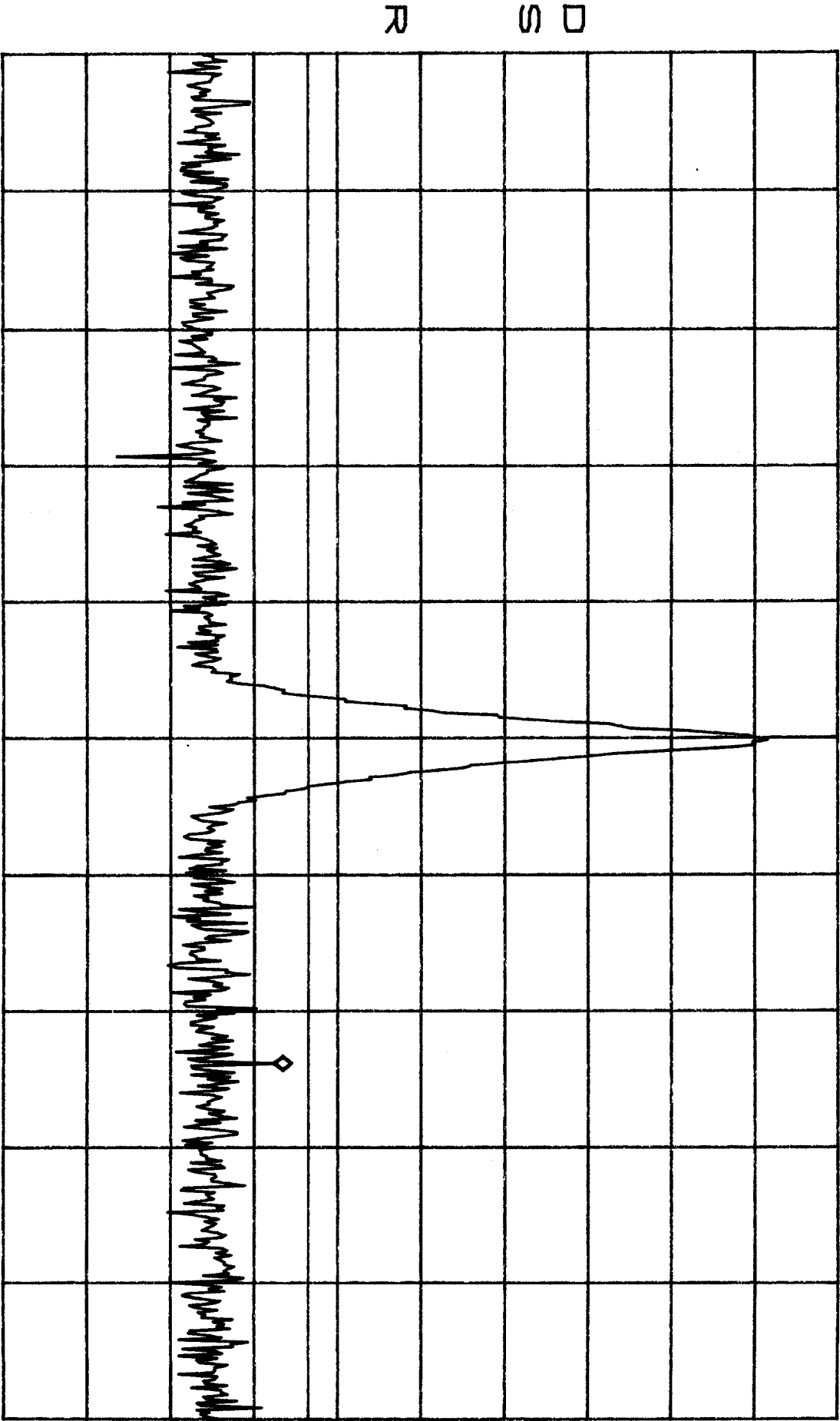


START 1.000GHZ STOP 10.000GHZ  
 \*RBW 1.0MHZ VBW 1.0MHZ SWP 180ms

Conducted Emissions Band Sme  
TDM A

\* ATTEN 20DB  
RL 50.5DBM  
10DB/

MKR -17.00DBM  
859.192MHZ



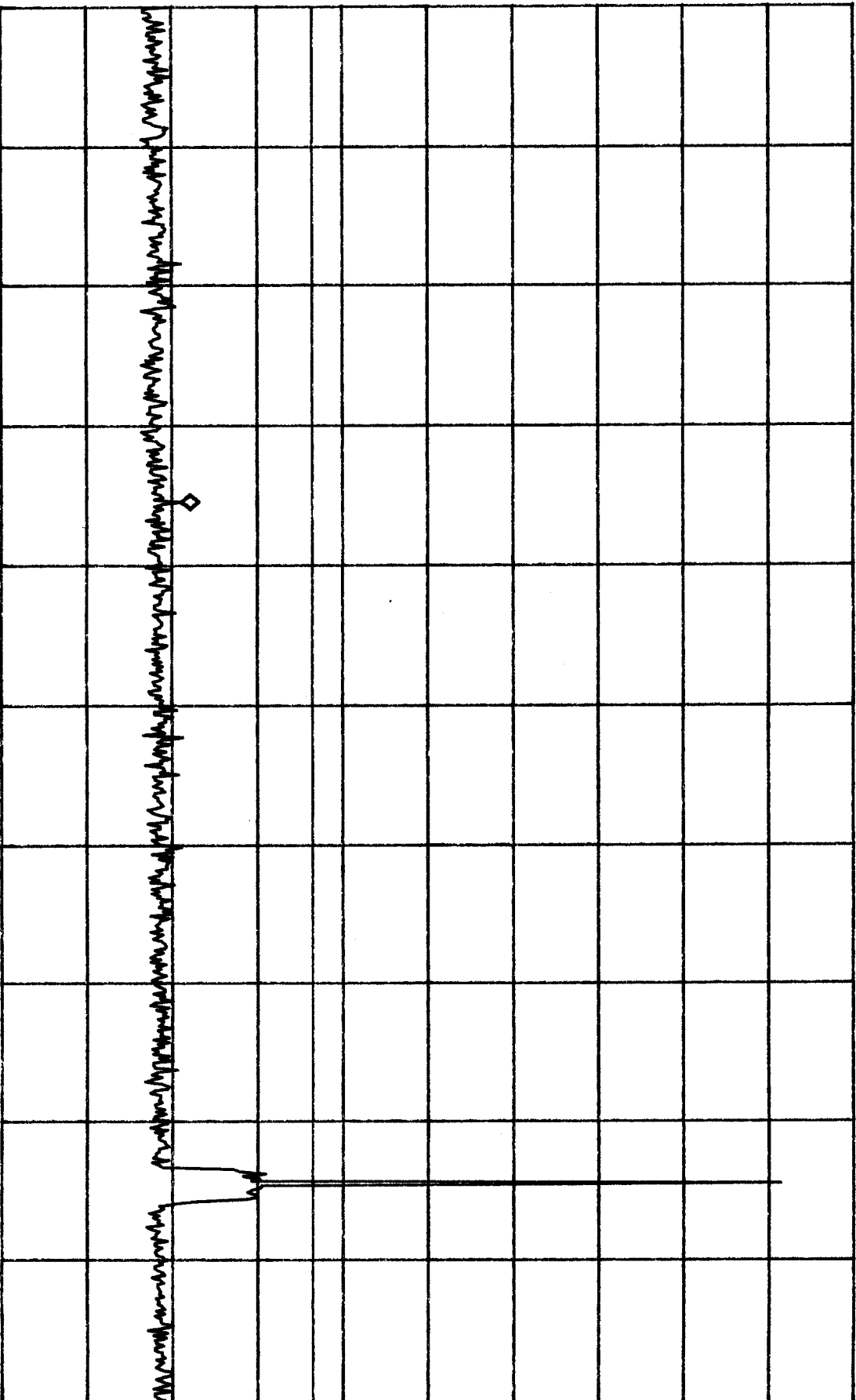
0  
5  
R

CENTER 858.000MHZ  
SPAN 5.000MHZ

\*RBW 30KHZ  
VBW 30KHZ  
SWP 50ms

Conducted Emissions Band Swe  
TDM A

\*ATTEN 20DB      MKR -28.33DBm  
RL 50.5DBm      10DB/      374.4MHZ

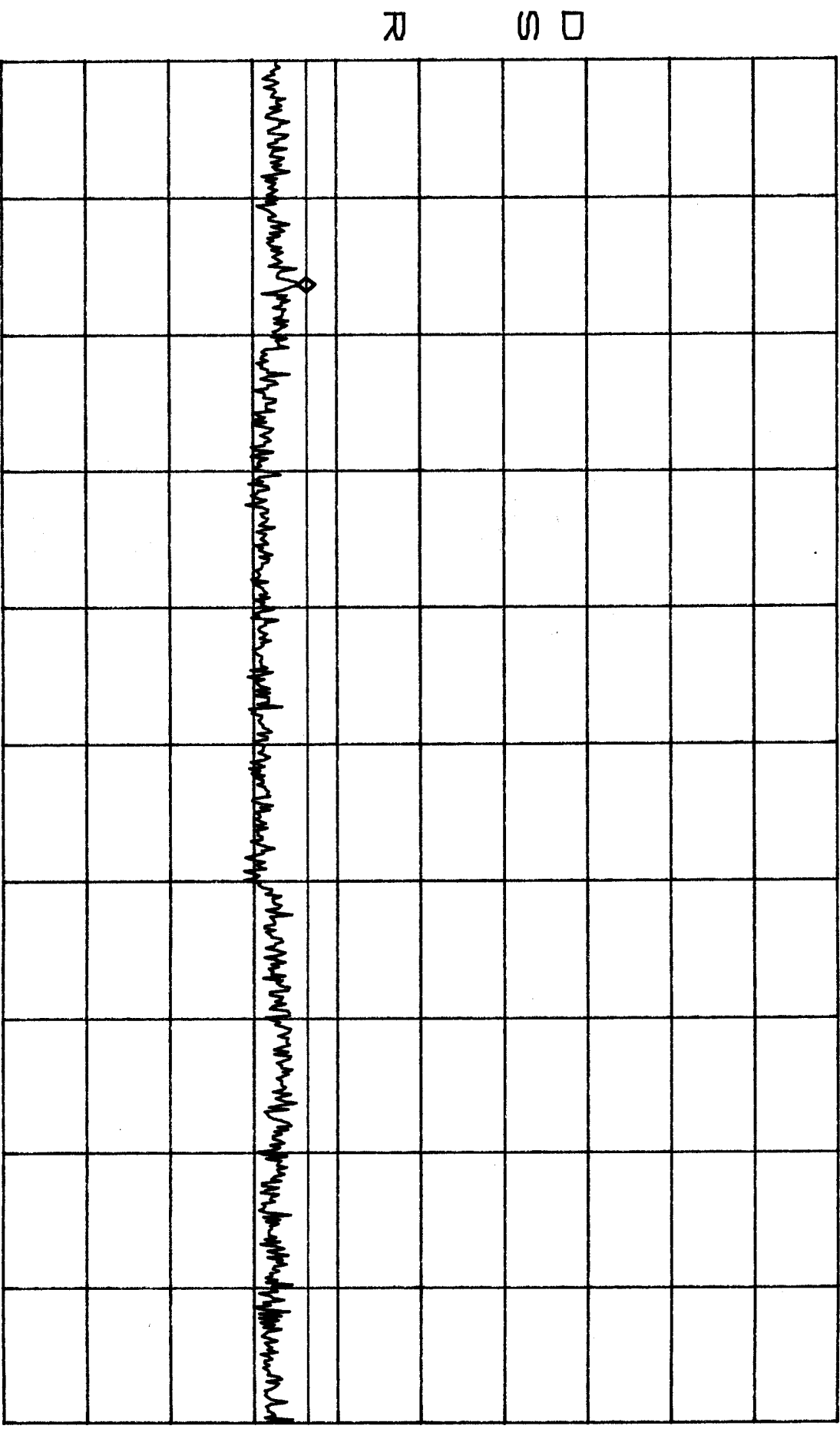


U  
R

START 30.0MHZ      STOP 1.0000GHZ  
\*RBW 30KHZ      VBW 30KHZ      SWP 2.7sec

Conducted Emissions Band Sme  
 TDMA

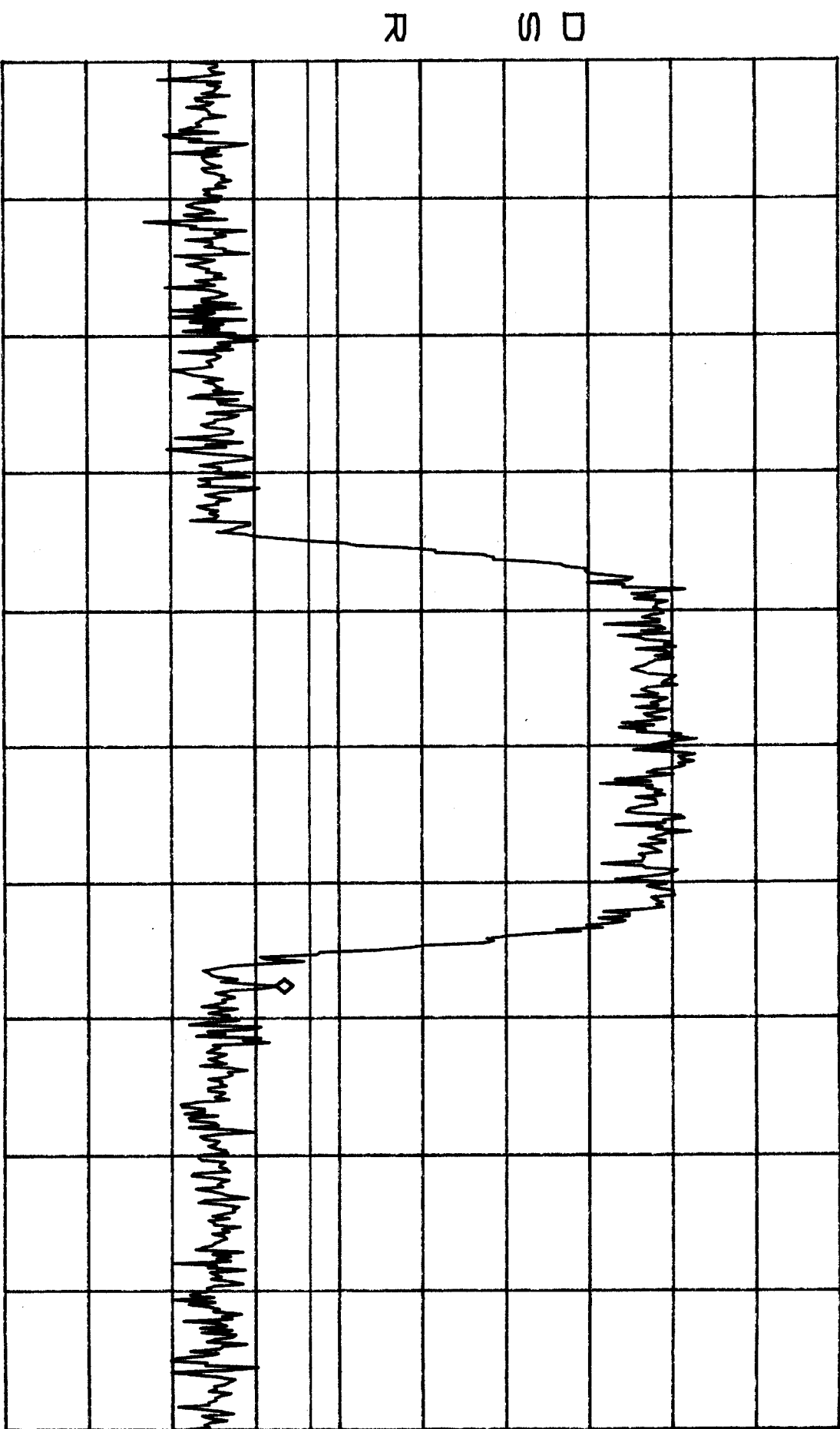
\*ATTEN 20DB  
 RL 50.5DBm  
 10DB/  
 MKR -14.00DBm  
 2.470GHZ



START 1.000GHZ STOP 10.000GHZ  
 \*RBW 1.0MHZ VBW 1.0MHZ SWP 180ms

Conducted Emissions Band Swe  
CDMA

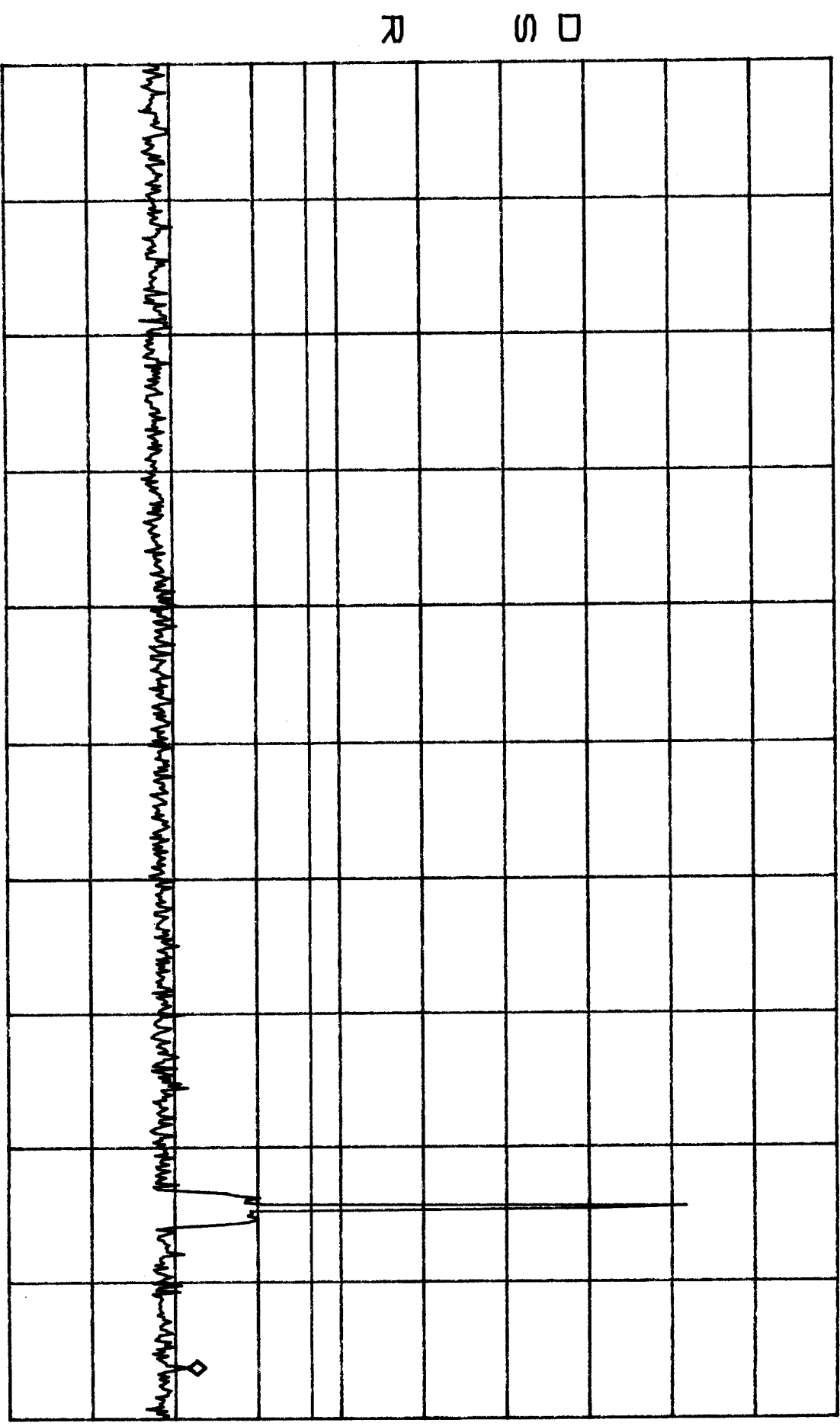
\*ATTEN 20DB  
RL 50.5DBm 10DB/ 858.883MHz  
MKR -17.00DBm



CENTER 858.000MHz SPAN 5.000MHz  
\*RBW 30kHz VBW 30kHz SWP 50ms

Conducted Emissions Band Swe  
CDMA

\*ATTEN 20DB  
RL 50.5DBm  
10DB/  
MKR -27.83DBm  
964.4MHZ



DS  
R

START 30.0MHZ  
STOP 1.0000GHZ  
\*RBW 30KHZ  
VBW 30KHZ  
SWP 2.7sec



Conducted Emissions Band 5Mc  
CDMA

\*ATTEN 20DB

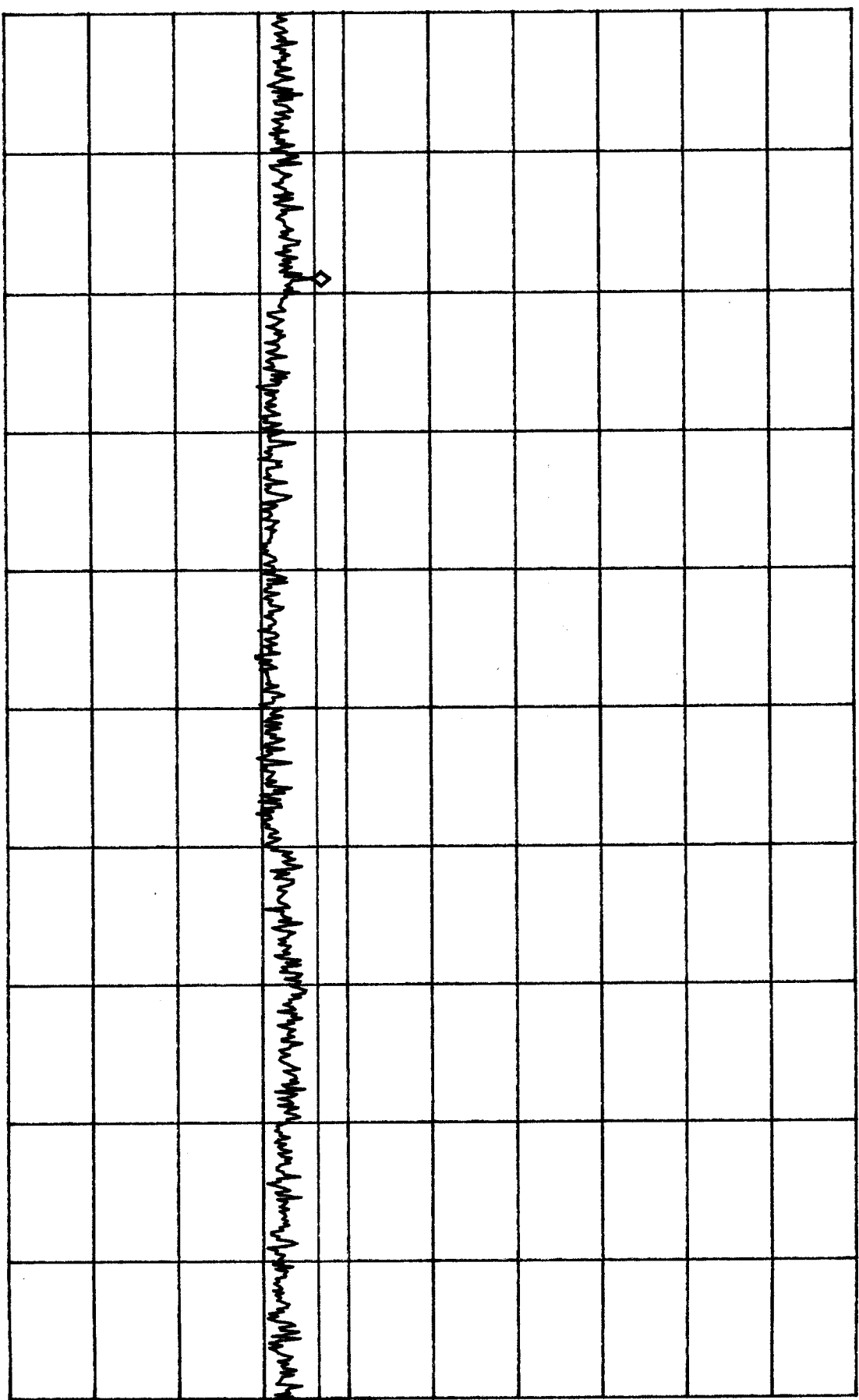
MKR -13.17DBM

RL 50.5DBM

10DB/

2.710GHZ

DS  
R



START 1.000GHZ

STOP 10.000GHZ

\*RBW 1.0MHZ

VBW 1.0MHZ

SWP 180ms

Conducted Emissions Band Edge FM Band Sme

\*ATTEN 20DB

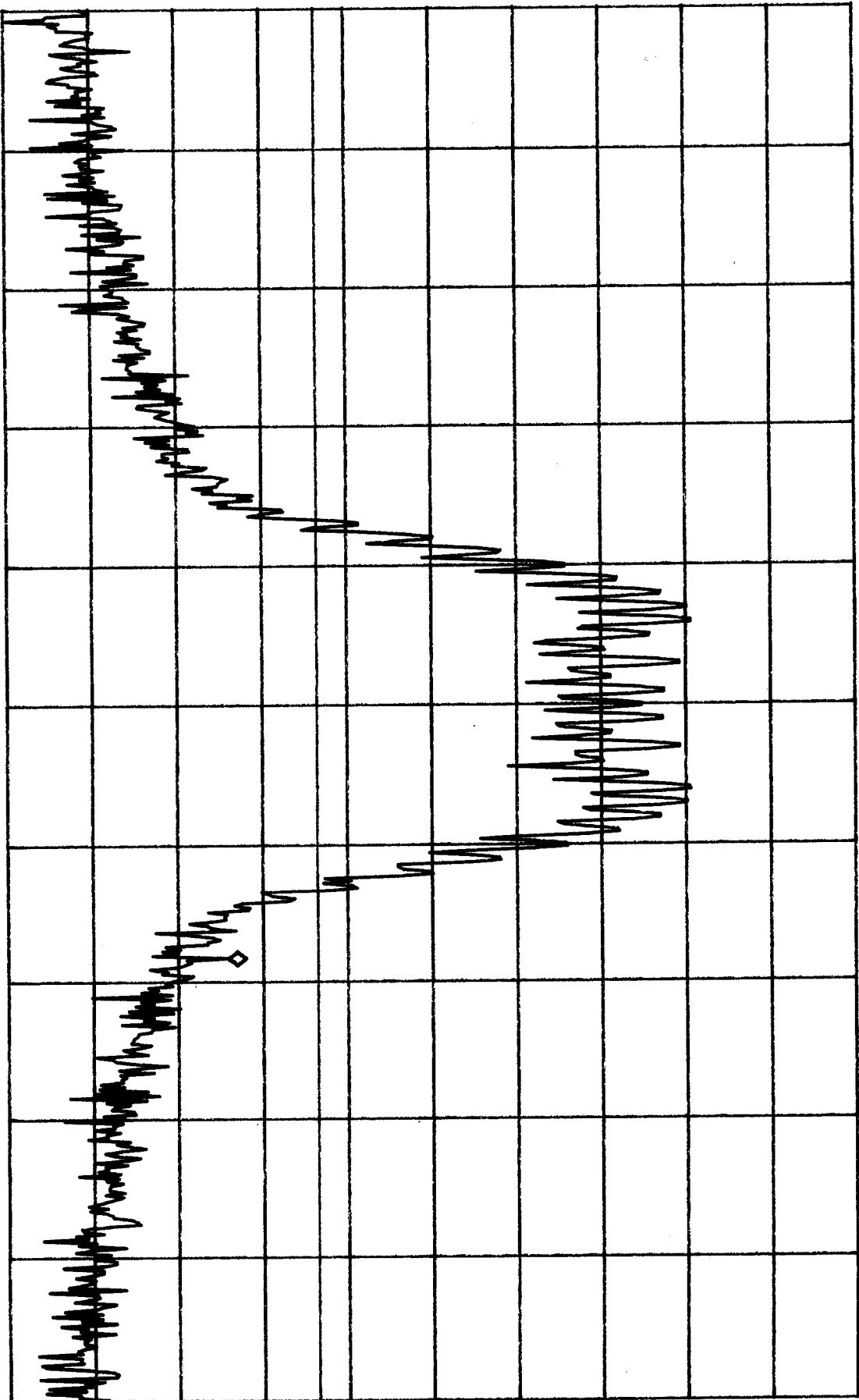
MKR -23.50DBm

RL 50.5DBm

10DB/

851.2183MHZ

DSR



CENTER 851.200MHZ

SPAN 100.0KIN

\*RBW 300HZ

VBW 300HZ

SWP 2.8sec

Conducted Emissions Band Edge FM Band SpR

\*ATTEN 20DB

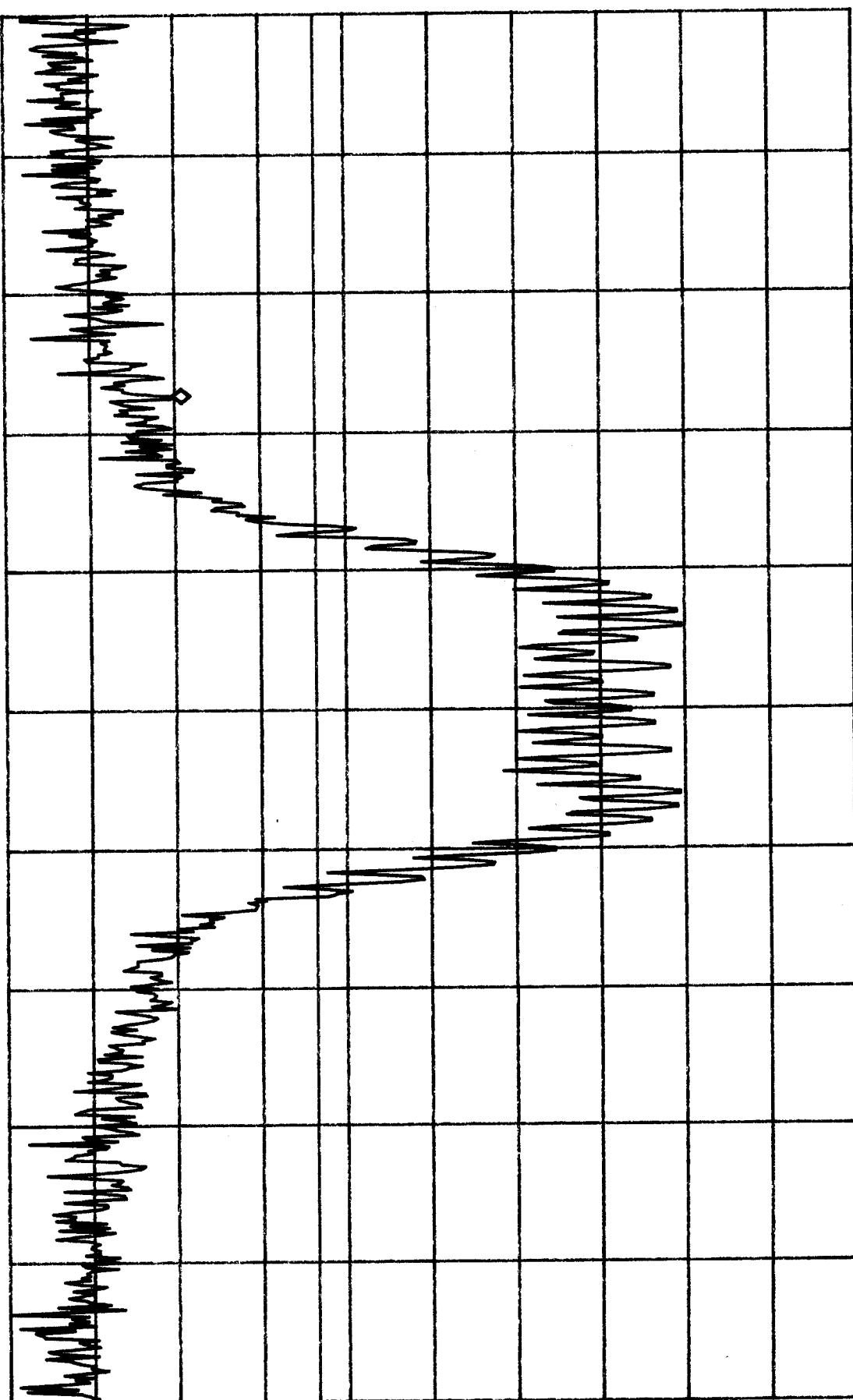
MKR -29.67DBM

RL 50.5DBM

10DB/

865.7773MHZ

DSR



CENTER 865.800MHZ

SPAN 100.0KHZ

\*RBW 300HZ

VBW 300HZ

SWP 2.8sec