

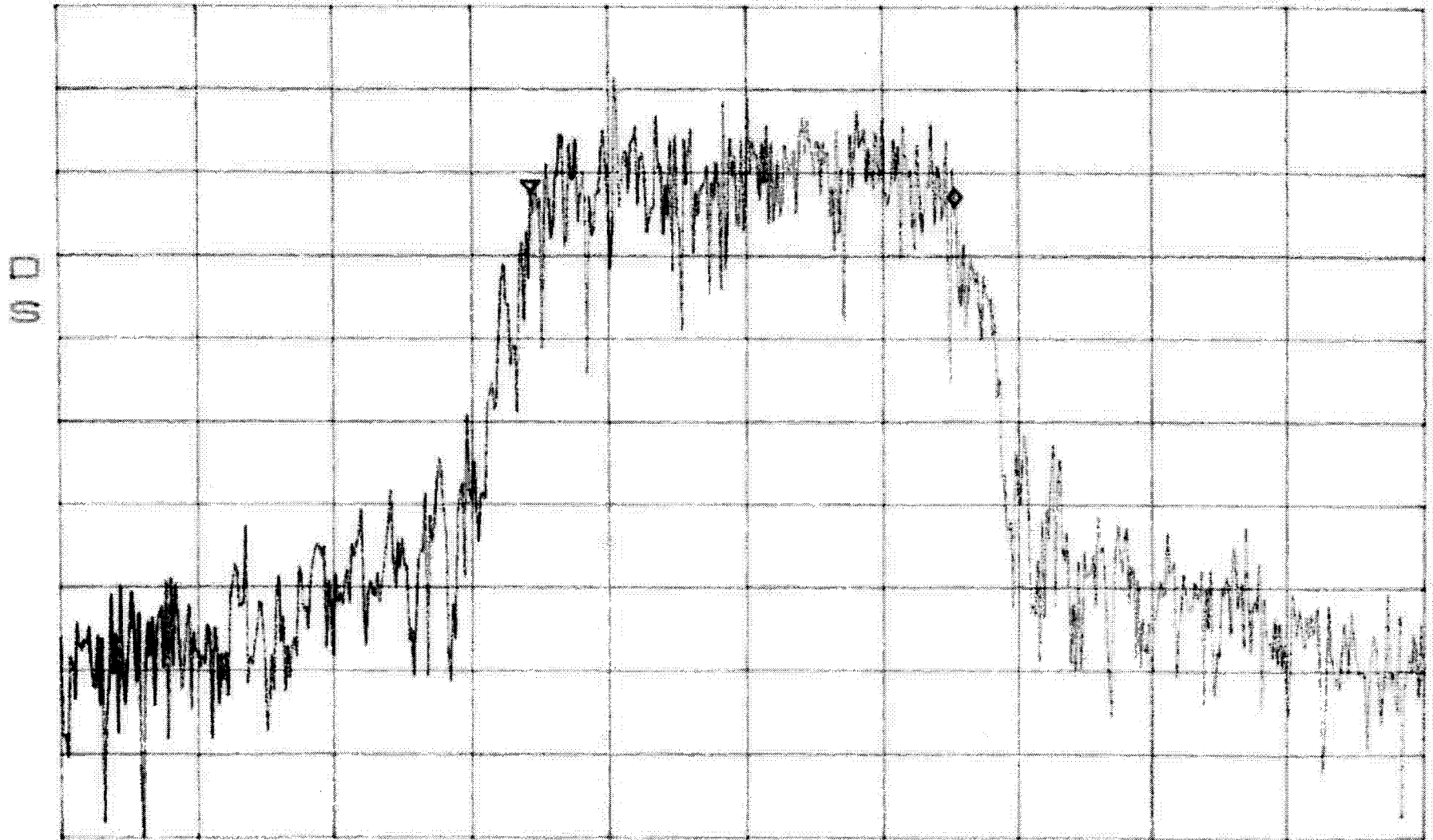
BAND E
000 BW

TDMA IN

*ATTEN 10dB
BPO1 NATTVA
RL -30.0dBm

10dB/

ΔMKR -1.50dB
27.90kHz



CENTER 1.887500000GHz SPAN 90.00kHz
*RBW 300Hz *VBW 3.0kHz SWP 2.5sec

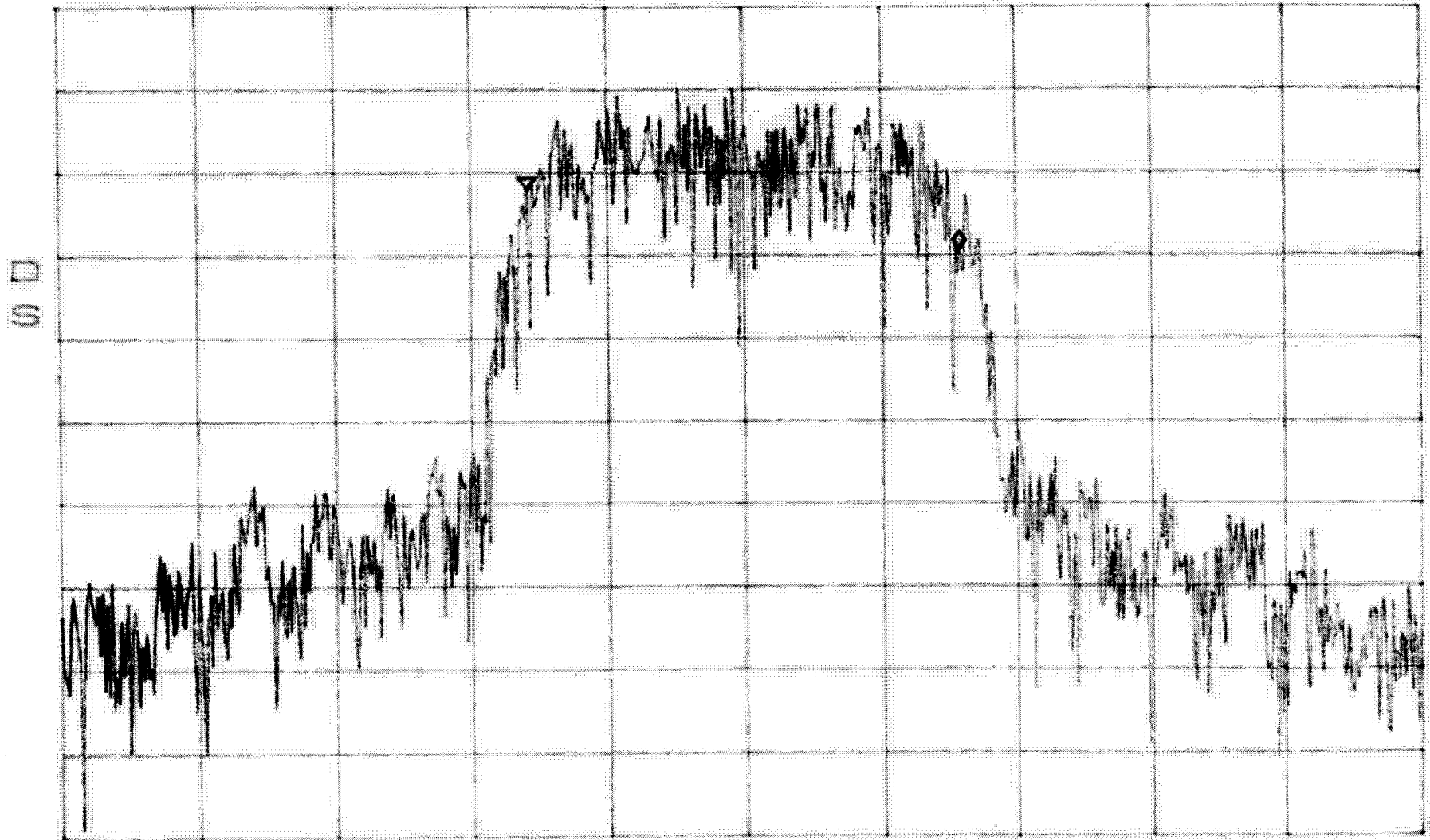
BAND E
OCC BW

TDMA OUT

*ATTEN 10dB
RL 0dBm

10dB/
BPO1

ΔMKR -7.34dB
28.50KHz



CENTER 1.88750000GHz

SPAN 90.00KHz

*RBW 300Hz

*VBW 3.0KHz

SWP 2.5sec

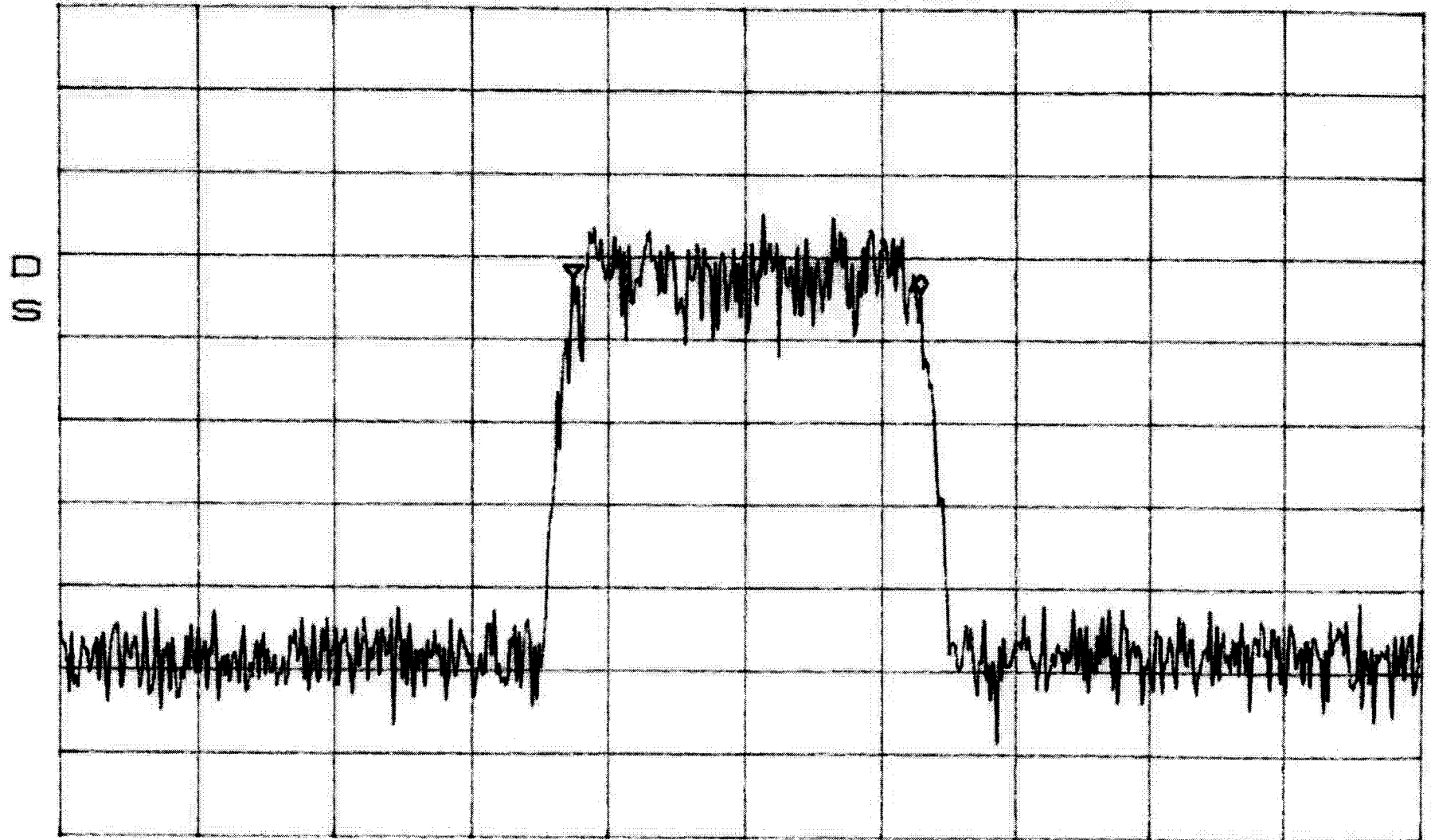
BAND E
OCC BW

CDMA IN

*ATTEN 10dB
BPO1 10dB
RL -20.0dBm

10dB/BPO1

ΔMKR -1.97dB
1.267MHz



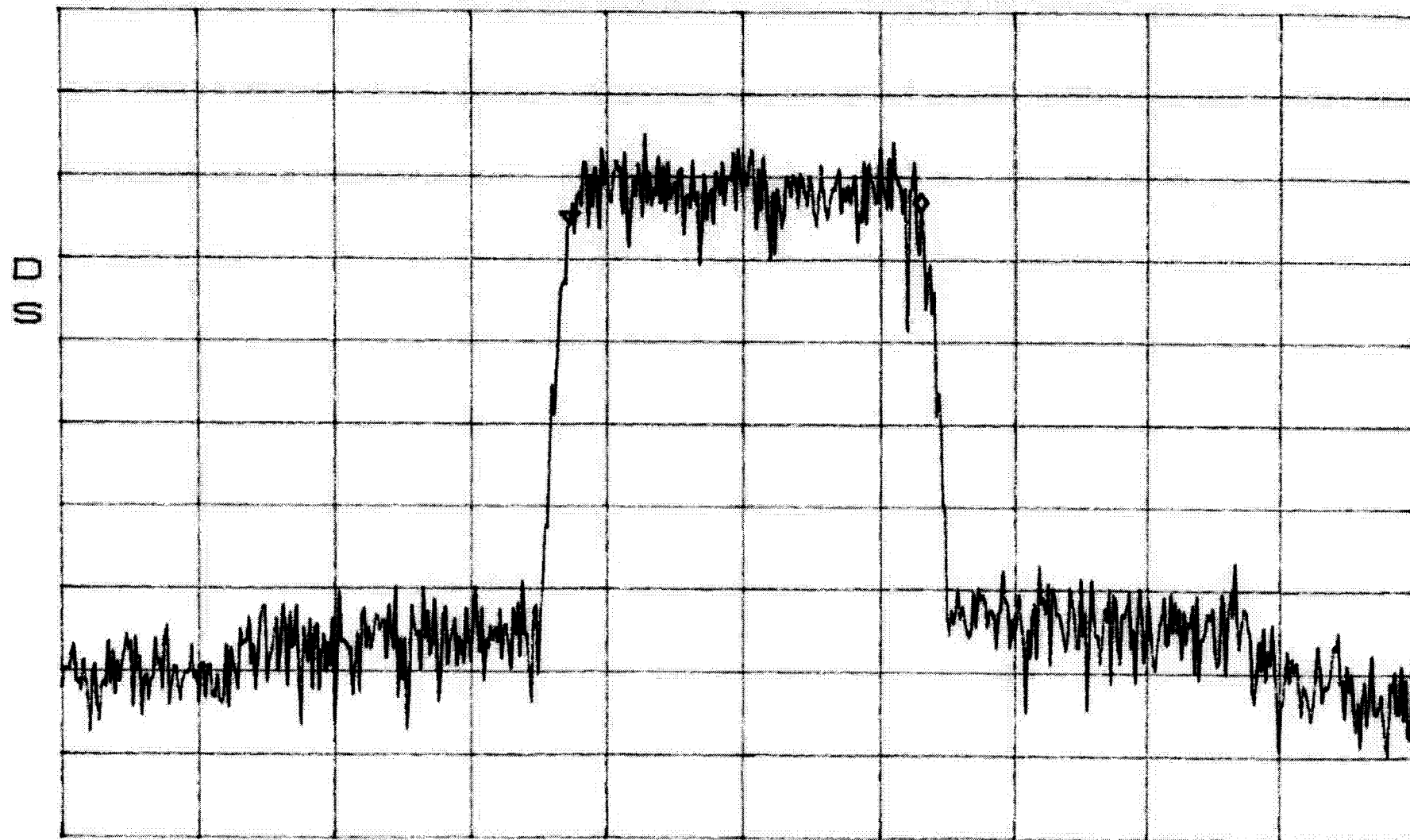
CENTER 1.887500GHz SPAN 5.000MHz
*RBW 10kHz *VBW 3.0kHz SWP 420ms

BAND E
OCC BW

CDMA OUT

*ATTEN 10dB
RL 0dBm

ΔMKR 1.97dB
1.283MHz



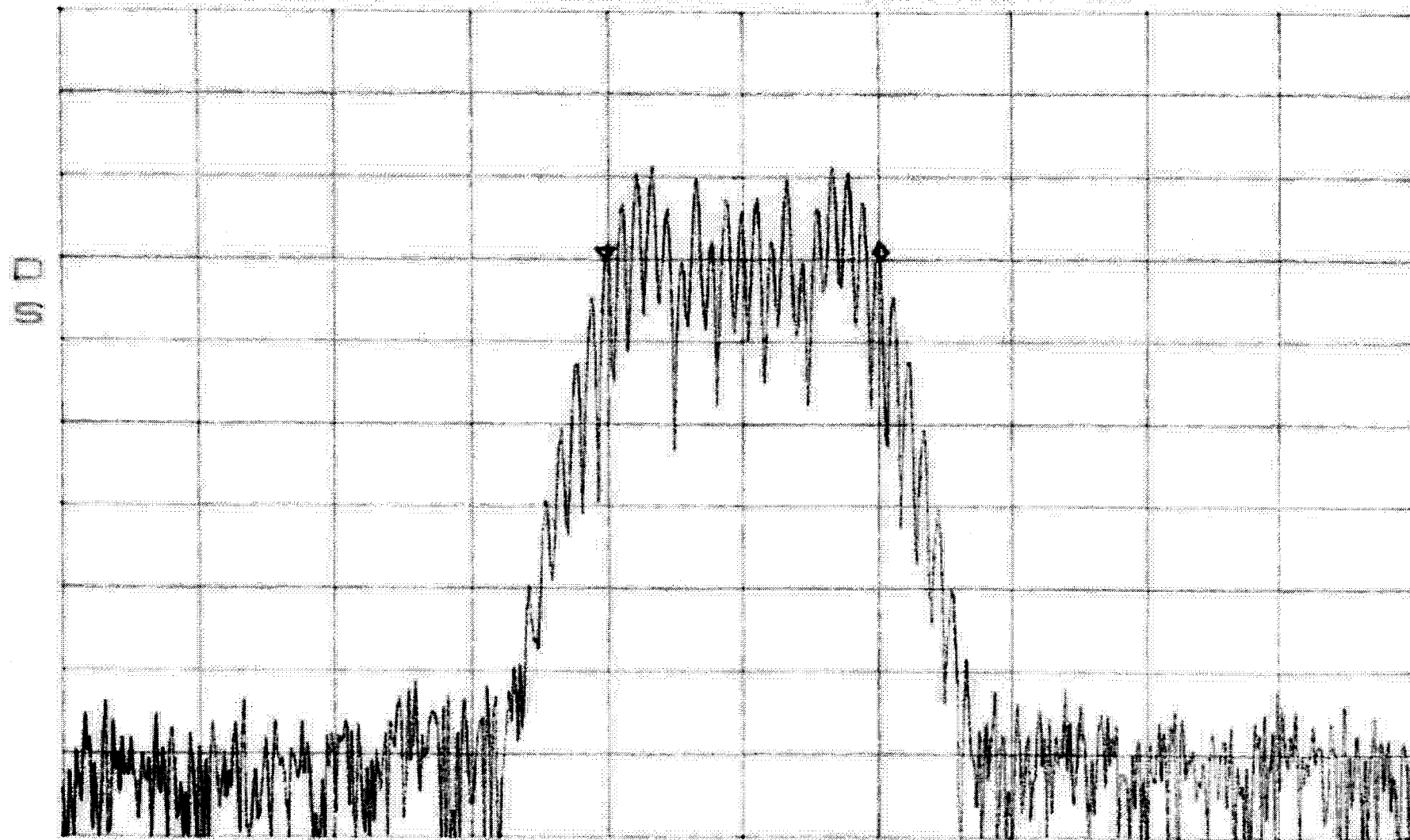
CENTER 1.887500GHz SPAN 5.000MHz
*RBW 10kHz *VBW 3.0kHz SWP 420ms

F M IN

ΔMKR 0dB

1000/

18. 30kHz



SPAN 90.00KHz

*VSW 3. OKHZ

SWP 2.5000

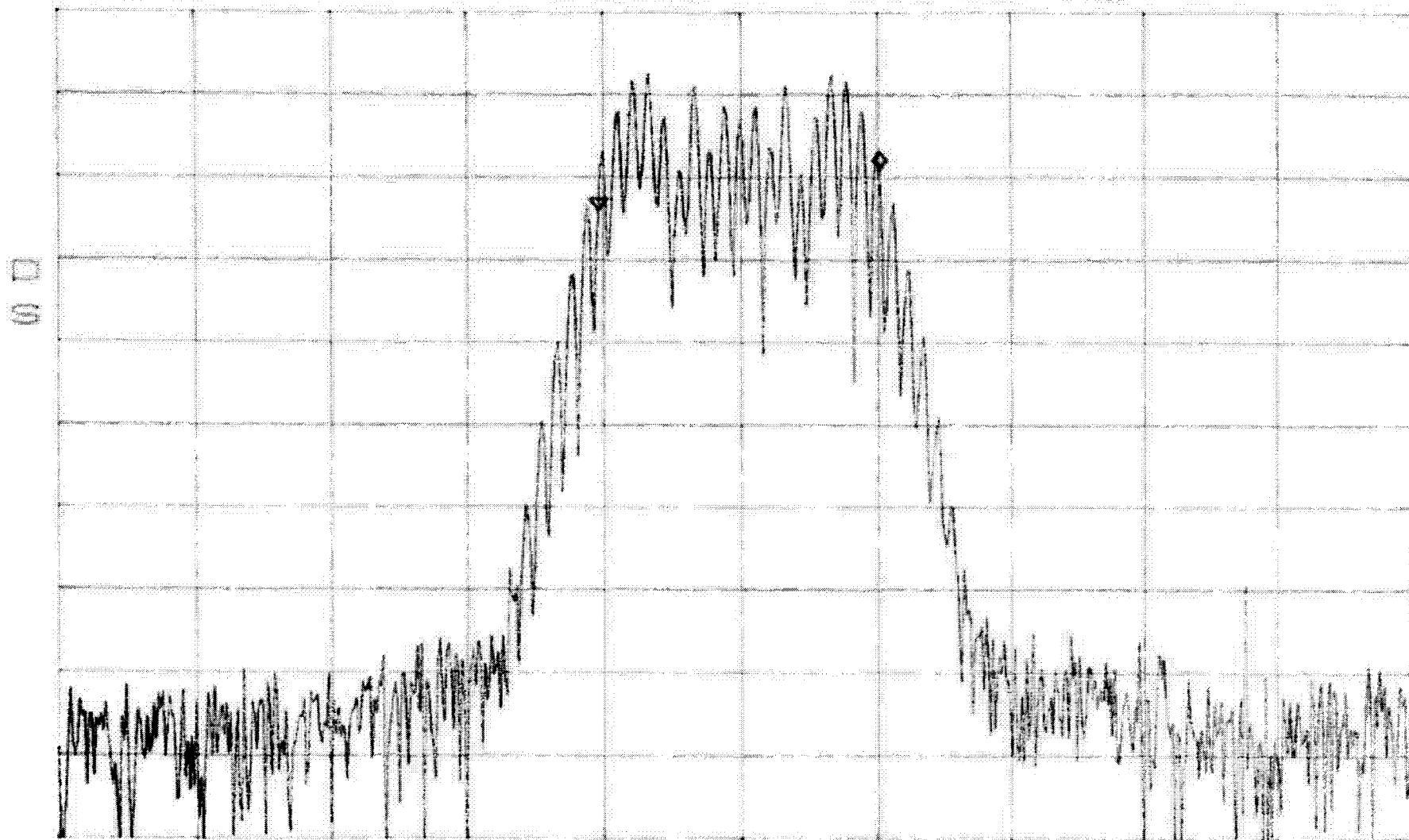
BAND F
OCC BW

FM OUT

*ATTEN 10dB
RL 0dBm

10dB/

ΔMKR 5.00dB
18.45kHz



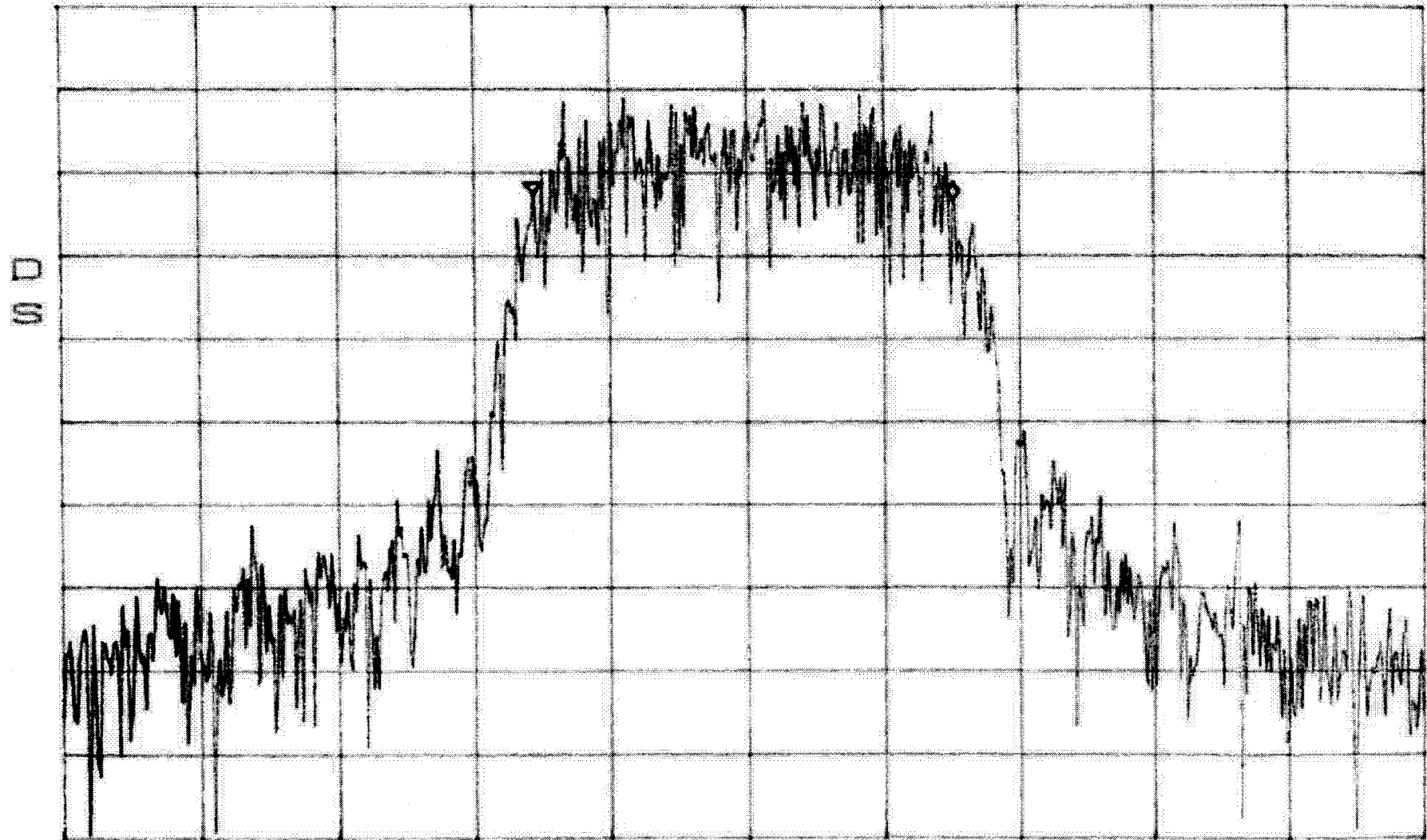
BAND F
OCC BW

TDMA IN

*ATTEN 10dB
RL -30.0dBm

10dB/

ΔMKR -.67dB
27.75kHz



CENTER 1.89250000GHz

SPAN 90.00kHz

*RBW 300Hz

*VBW 3.0kHz

SWP 2.5600

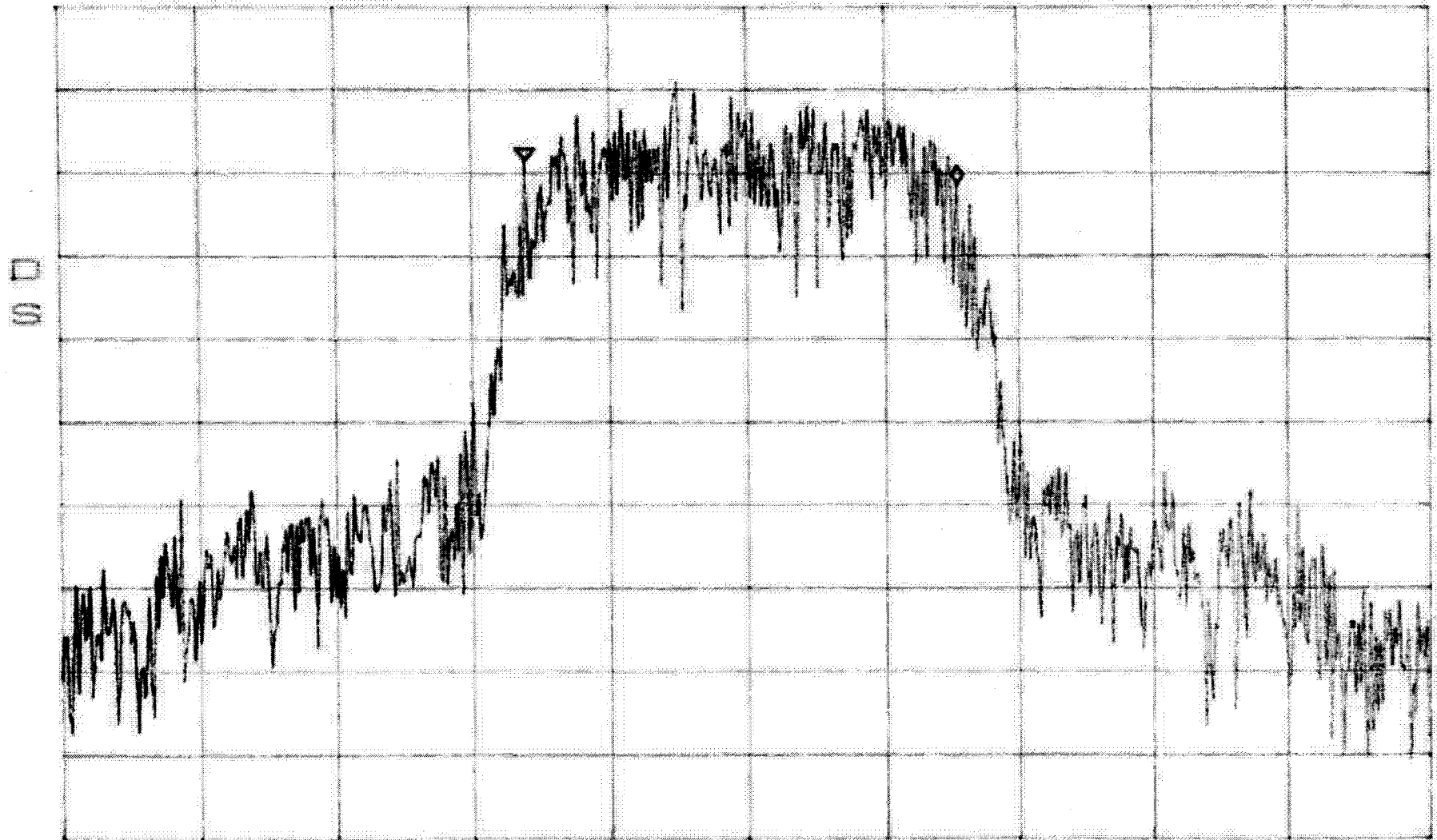
BAND F
OCC BW

TDMA OUT

*ATTEN 10dB
BPO1 NALTA
RL 0dBm

10dB/

ΔMKR -2.84dB
28.35kHz



CENTER 1.892500000GHz

SPAN 90.00kHz

*RBW 300Hz

*VBW 3.0kHz

SWP 2.5sec

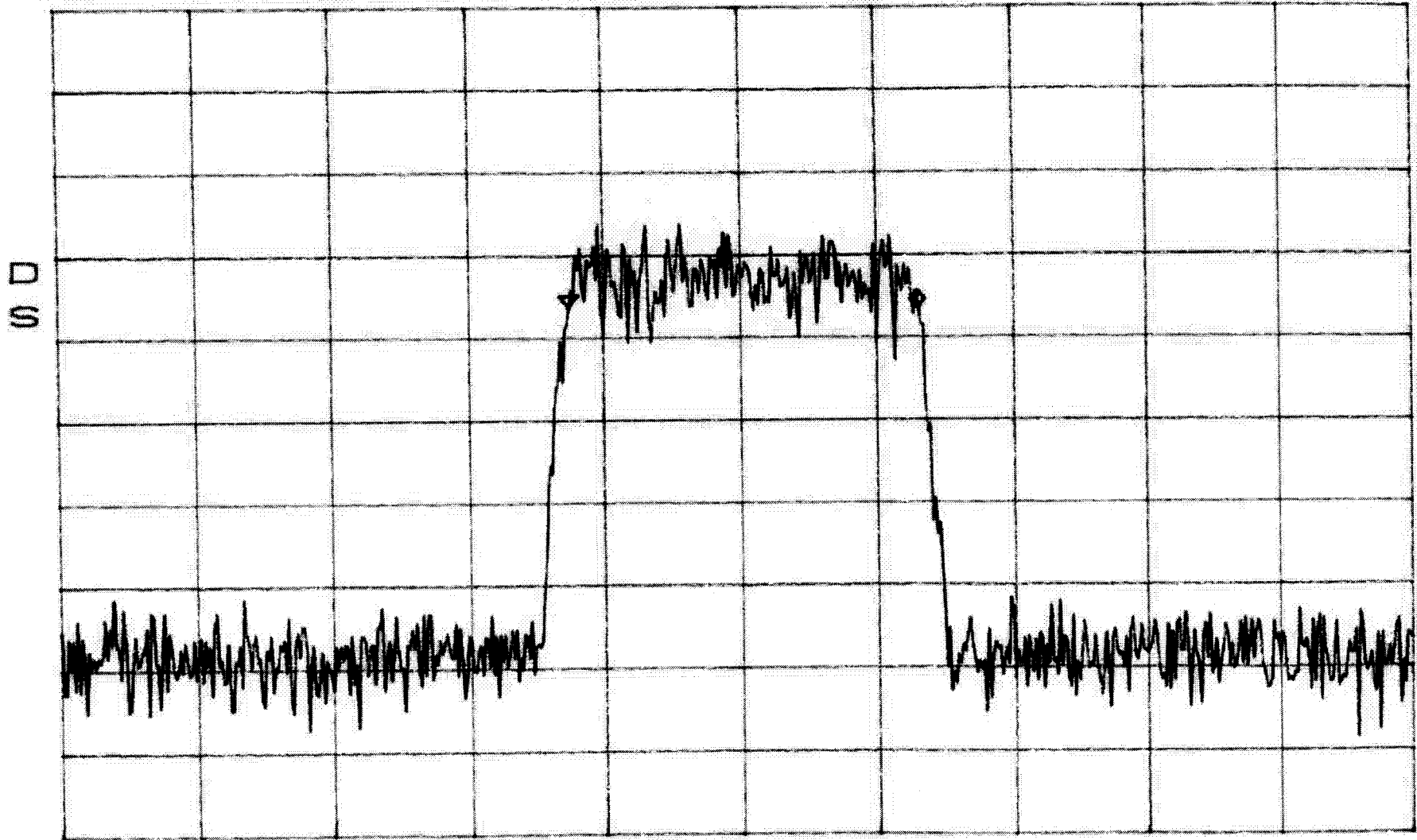
BAND F
OCC BW

CDMA IN

*ATTEN 10dB
RL -20.0dBm

10dB/

ΔMKR -.16dB
1.275MHz



CENTER 1.892500GHz
*RBW 10kHz *VBW 3.0kHz

SPAN 5.000MHz
SWP 420ms

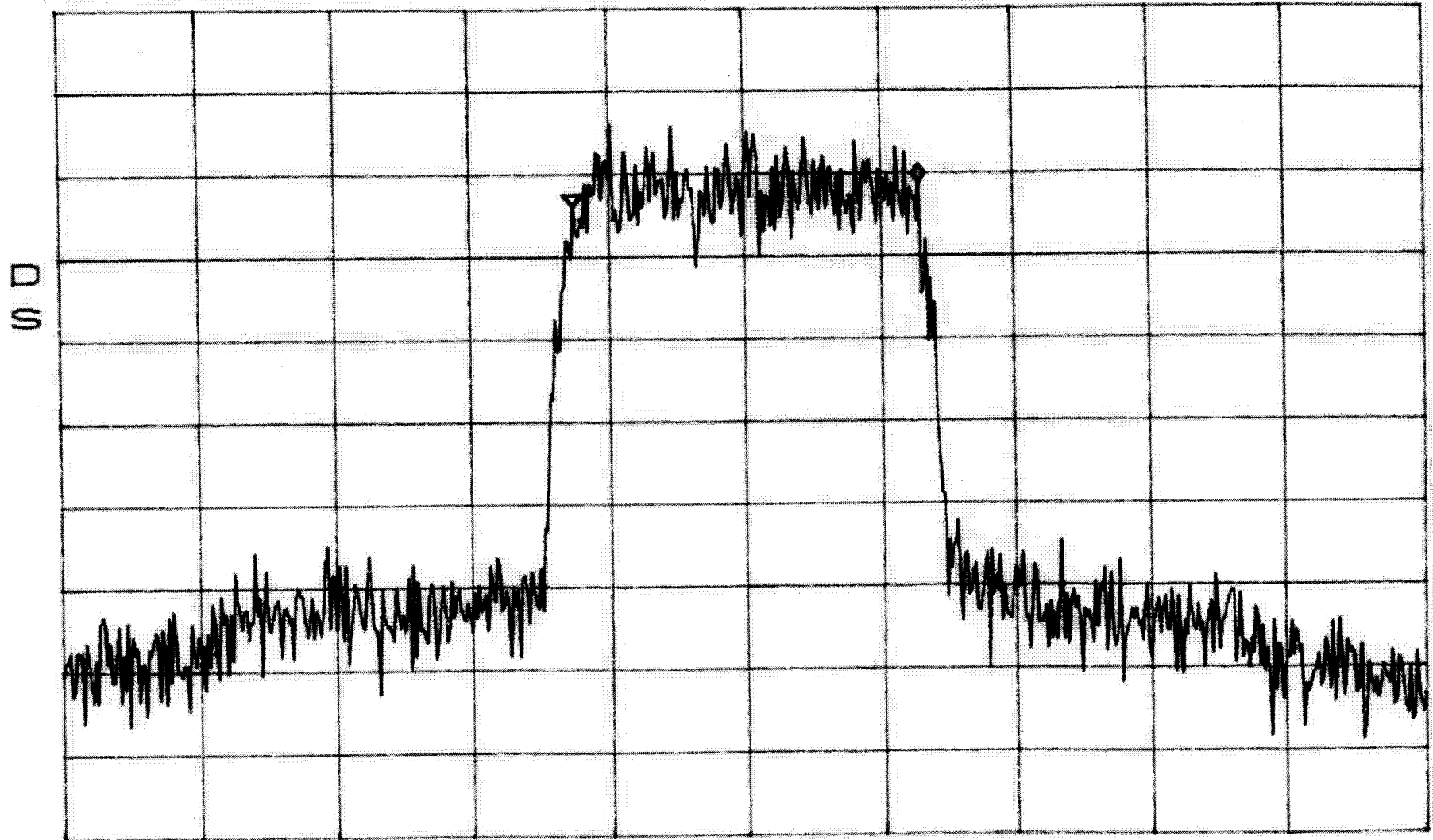
BAND F
OCC BW

CDMA OUT

*ATTN 10dB
RL 0dBm

10dB/

ΔMKR 2.83dB
1.267MHz



CENTER 1.892500GHz SPAN 5.000MHz
*RBW 10kHz *VBW 3.0kHz SWP 420ms

24.238 Emission Limits

The Emission limitations for cellular measurements were performed at the following test location :

- - ADC facility
- - Wild River Lab Large Test Site (Case Emissions Test)

TÜV Product Service Test equipment used for Case Emissions Test:

	TUV ID	Model Number	Manufacturer	Description	Serial Number	Cal Due
■ -	3202	EM-6917B	Electro-Metrics	Biconicalog Periodic	102	24 Sept 02
■ -	2075	3115	Electro-Mechanics (EMCO)	Ridge Guide Ant. 1-18 GHz	9001-3275	20 Oct 02
■ -	2865	11867A	Hewlett-Packard	RF Limiter	01972	Code B
■ -	2543	ZHL-1042J	Hewlett-Packard	Preamplifier 1-4 GHz	HO72294-11	Code B
■ -	2477	AFT-8434	Avantek	Preamplifier 4-8 GHz	2613A92801	21 Mar 02
■ -	2478	AWT-18037	Avantek	Preamplifier 8-18 GHz	1001-9226	21 Mar 02
■ -	2690	8566B	Hewlett-Packard	Spectrum Analyzer	2430A00930	19 Nov 02
■ -	2678	85662A	Hewlett-Packard	Analyzer Display	2403A08134	19 Nov 02
■ -	2684	85650A	Hewlett-Packard	Quasi-Peak Adapter	2521A01006	19 Nov 02

Cal Code B = Calibration verification performed internally.

Cal Code Y = Calibration not required when used with other calibrated equipment.

All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST) and is calibrated annually. Equipment labeled CNR (Calibration Not Required) is verified and compensated for with NIST traceable calibrated equipment.

Emissions Limits Data on following pages

**Conducted Emission Limits Test for ADC Inc. Digivance 1900 MHz RIU
Models DGVI-310000RIU, DGVI-320000RIU, DGVI-330000RIU, DGVI-
340000RIU, DGVI-350000RIU, and DGVI-360000RIU.
Per FCC CFR 47 Part 24.238 Emission Limits**

The out of band emissions were measured directly from the EUT antenna output with a spectrum analyzer from 30 MHz to the 10th 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
$$(19\text{dBm} - [43 + 10\log(0.08\text{W})])$$

Band edge compliance is also demonstrated using a CW signal at the upper and lower limits of the band and a resolution bandwidth of 300 Hz per 24.238 (b).

Results:

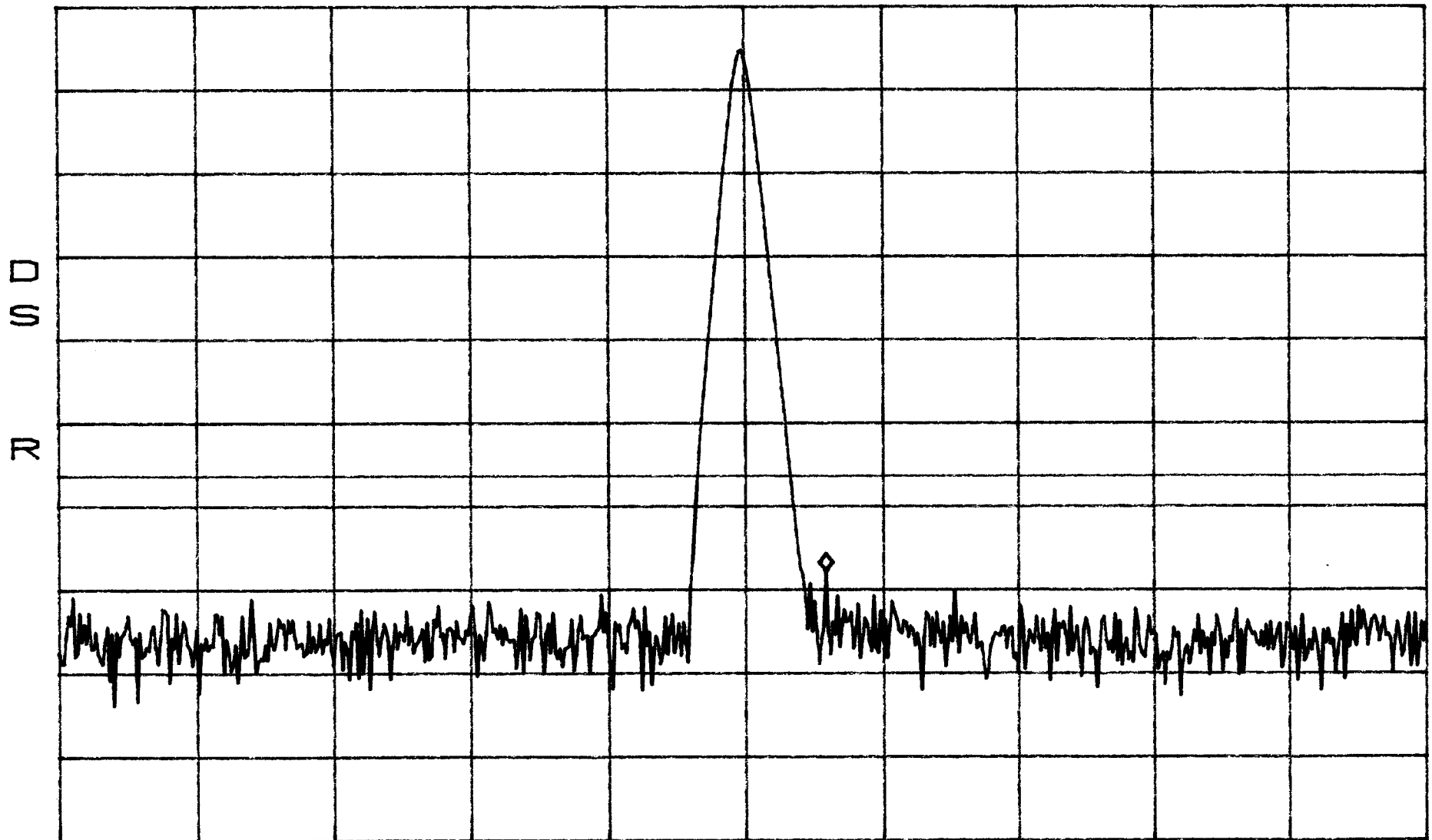
Pass (see plots)

COND Emissions BAND A
LOW

*ATTEN 20dB
RL 43.4dBm

10dB/

MKR -24.27dBm
1.8560GHz



CENTER 1.8502GHz
*RBW 1.0MHz VBW 1.0MHz

SPAN 100.0MHz
SWP 50ms

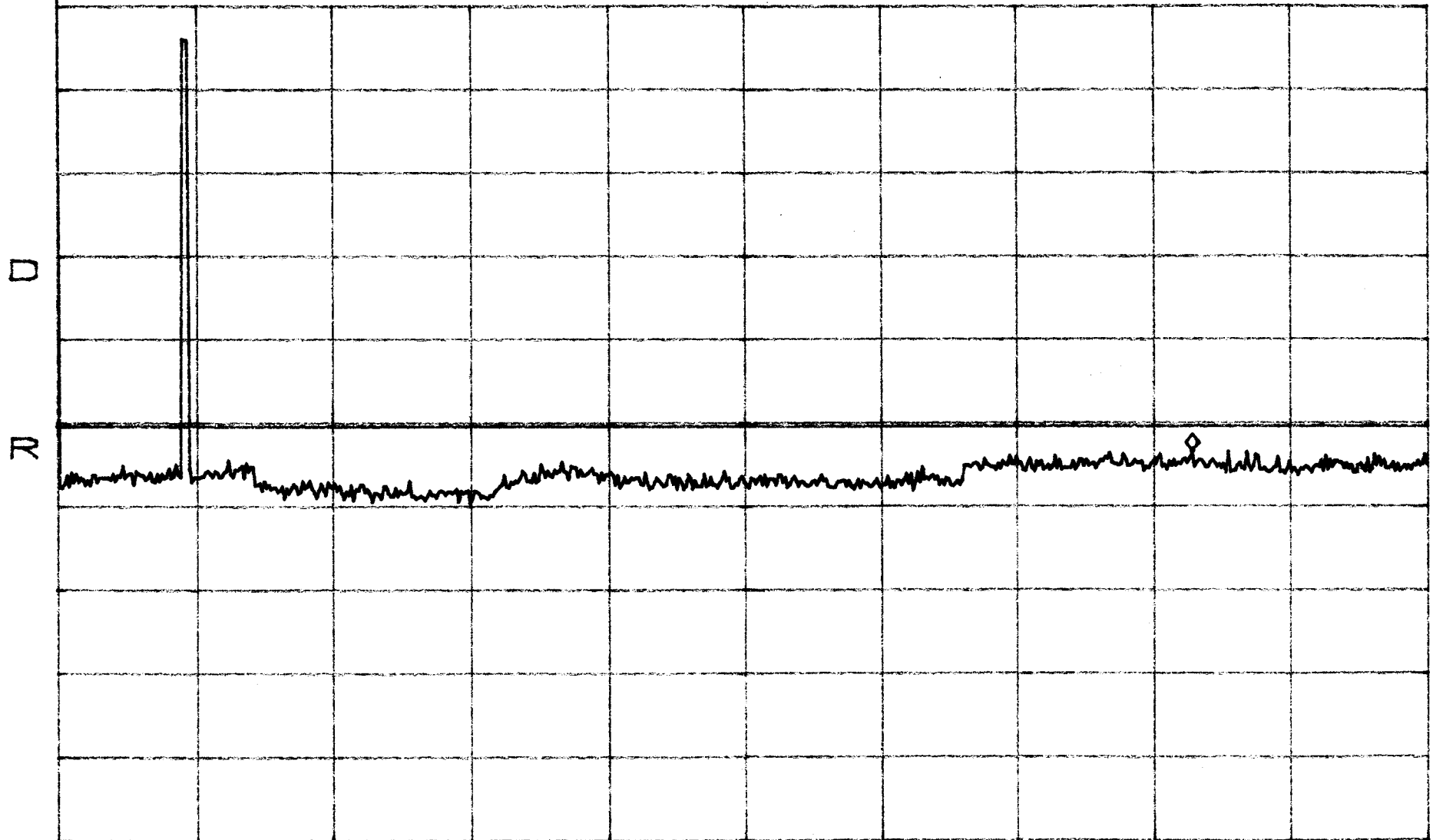
Cond Emissions
Low

BAND A

*ATTEN 10dB
RL 37.5dBm

10dB/

MKR -15.83dBm
16.57GHz



START 30MHz
*RBW 1.0MHz

VBW 1.0MHz

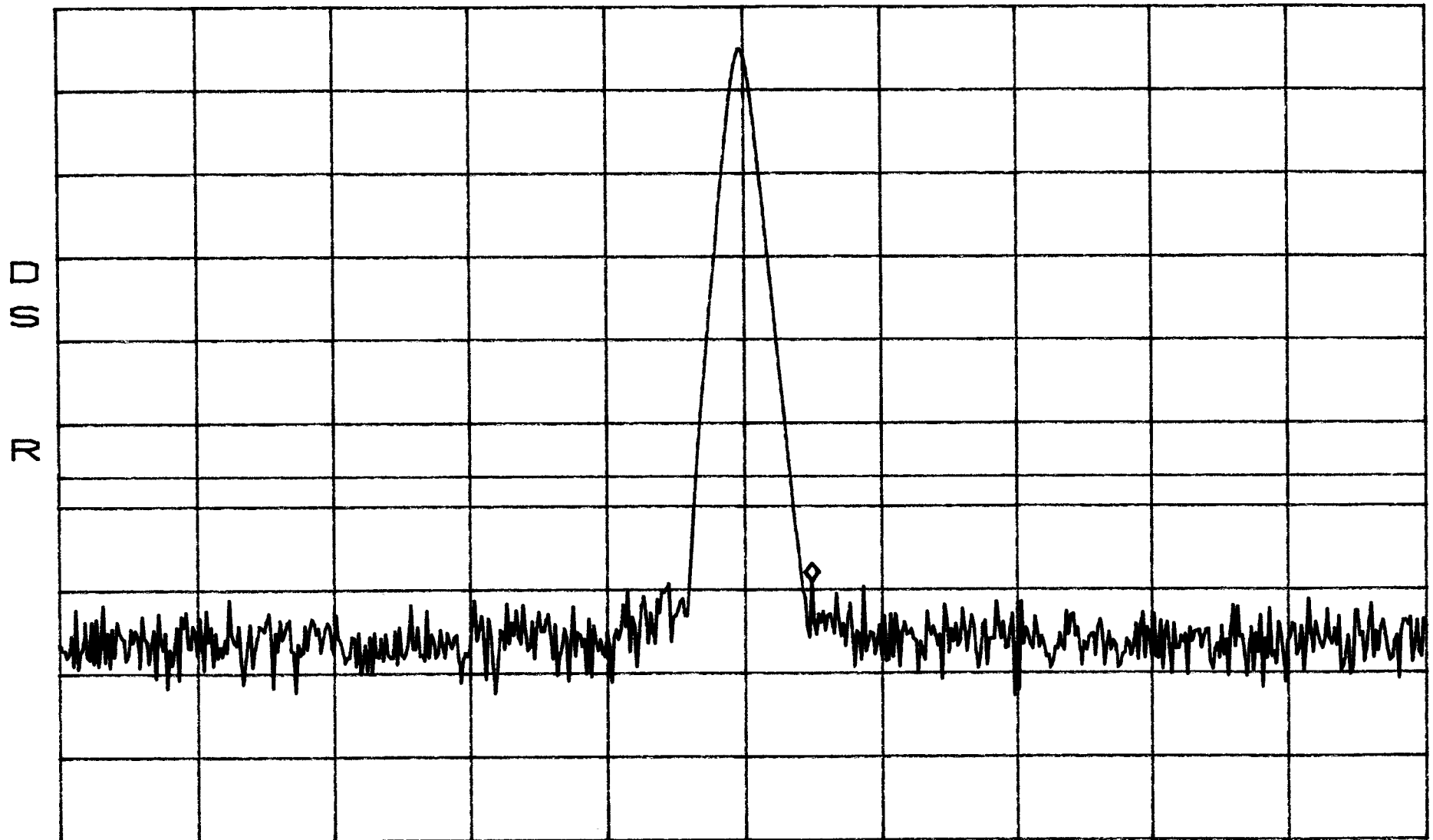
STOP 20.00GHz
SWP 400ms

COND Emissions BAND A
mid

*ATTEN 20dB
RL 43.4dBm

10dB/

MKR -25.43dBm
1.8623GHz



CENTER 1.8575GHz
*RBW 1.0MHz VBW 1.0MHz

SPAN 100.0MHz
SWP 50ms

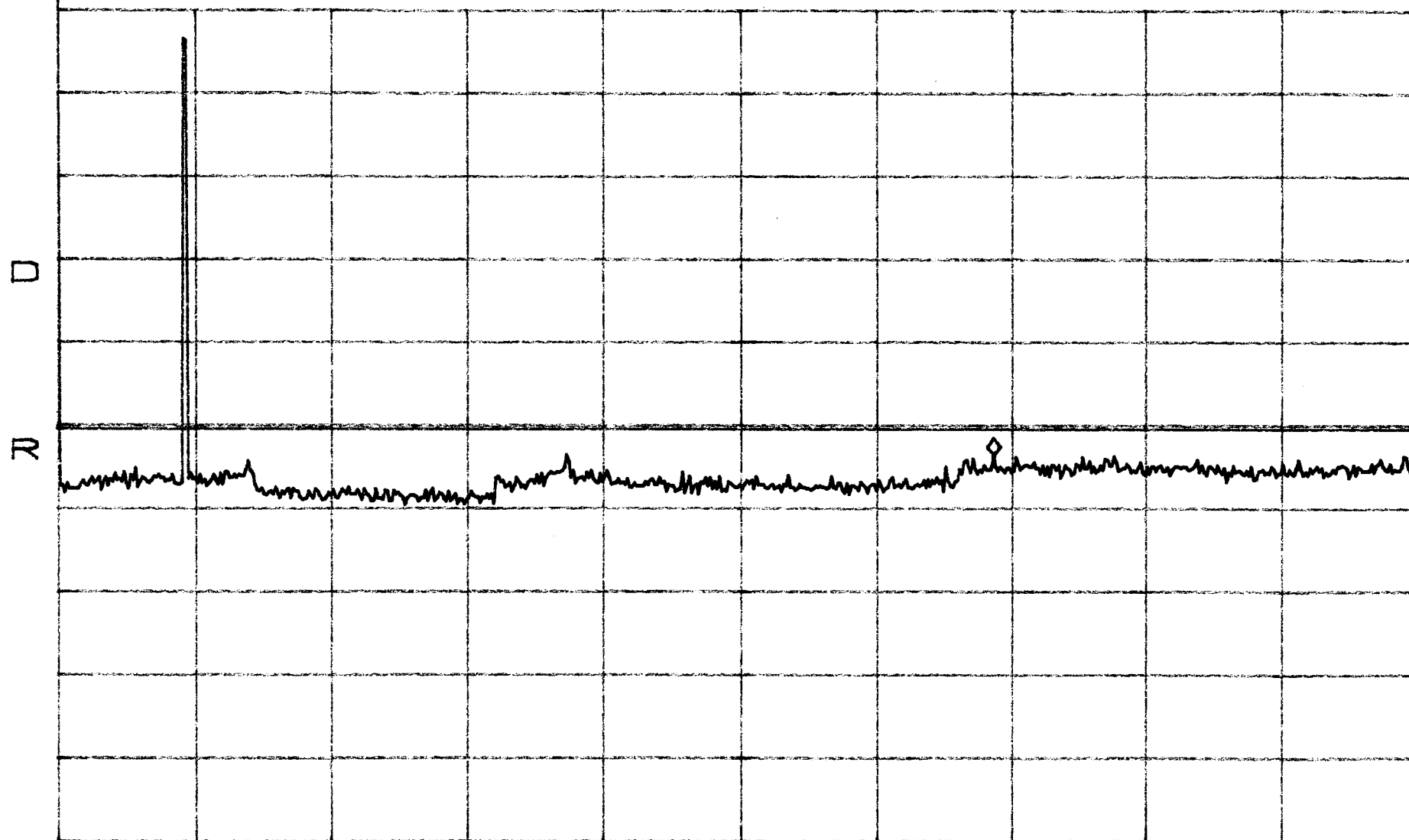
Cond Emissions
Mid

BAND A

*ATTEN 10dB
RL 37.5dBm

10dB/

MKR -16.00dBm
13.74GHz



START 30MHz

STOP 20.00GHz

*RBW 1.0MHz

VBW 1.0MHz

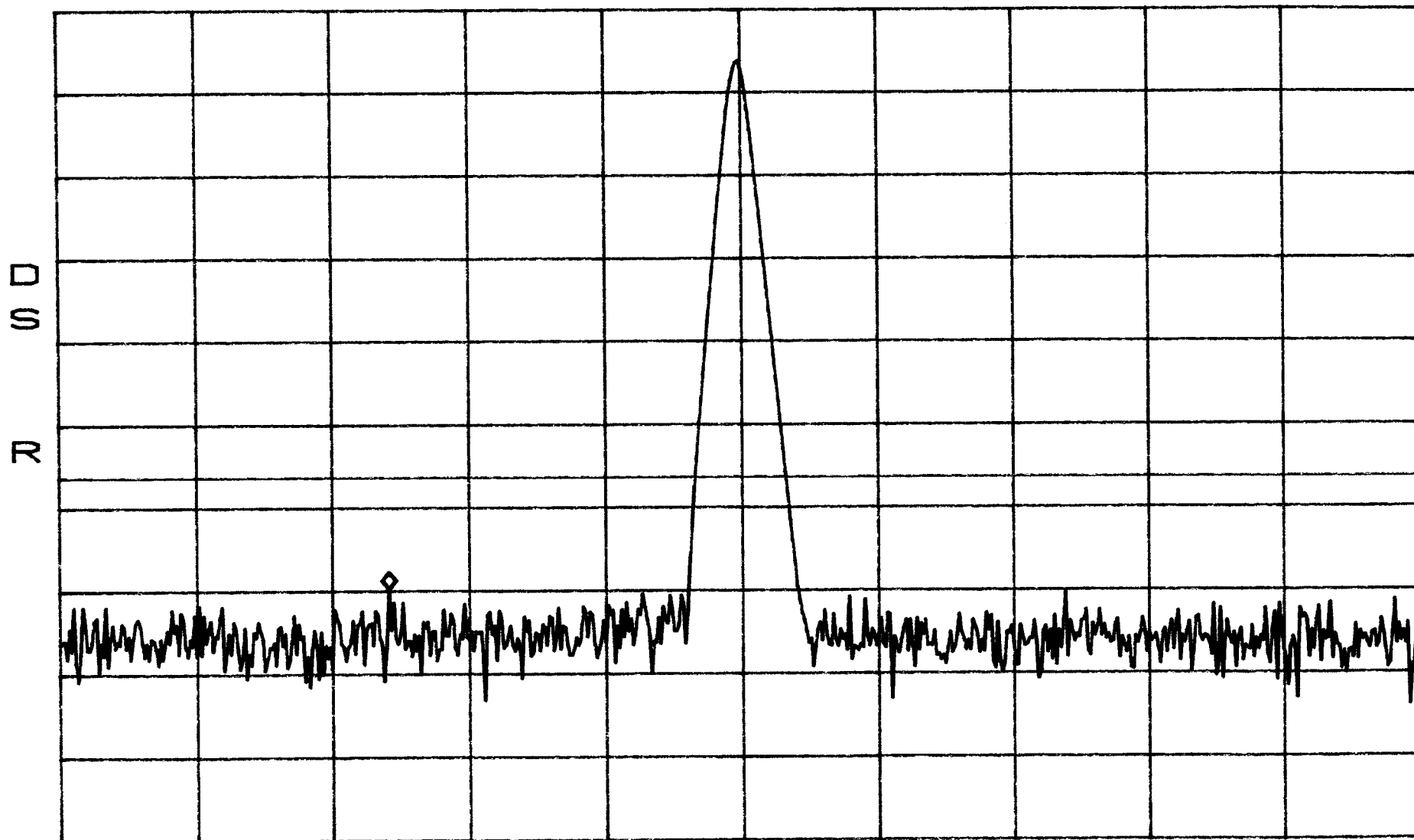
SWP 400ms

COND Emissions BAND A
High

*ATTEN 20dB
RL 43.4dBm

10dB/

MKR -26.27dBm
1.8390GHz



CENTER 1.8648GHz
*RBW 1.0MHz VBW 1.0MHz

SPAN 100.0MHz
SWP 50ms

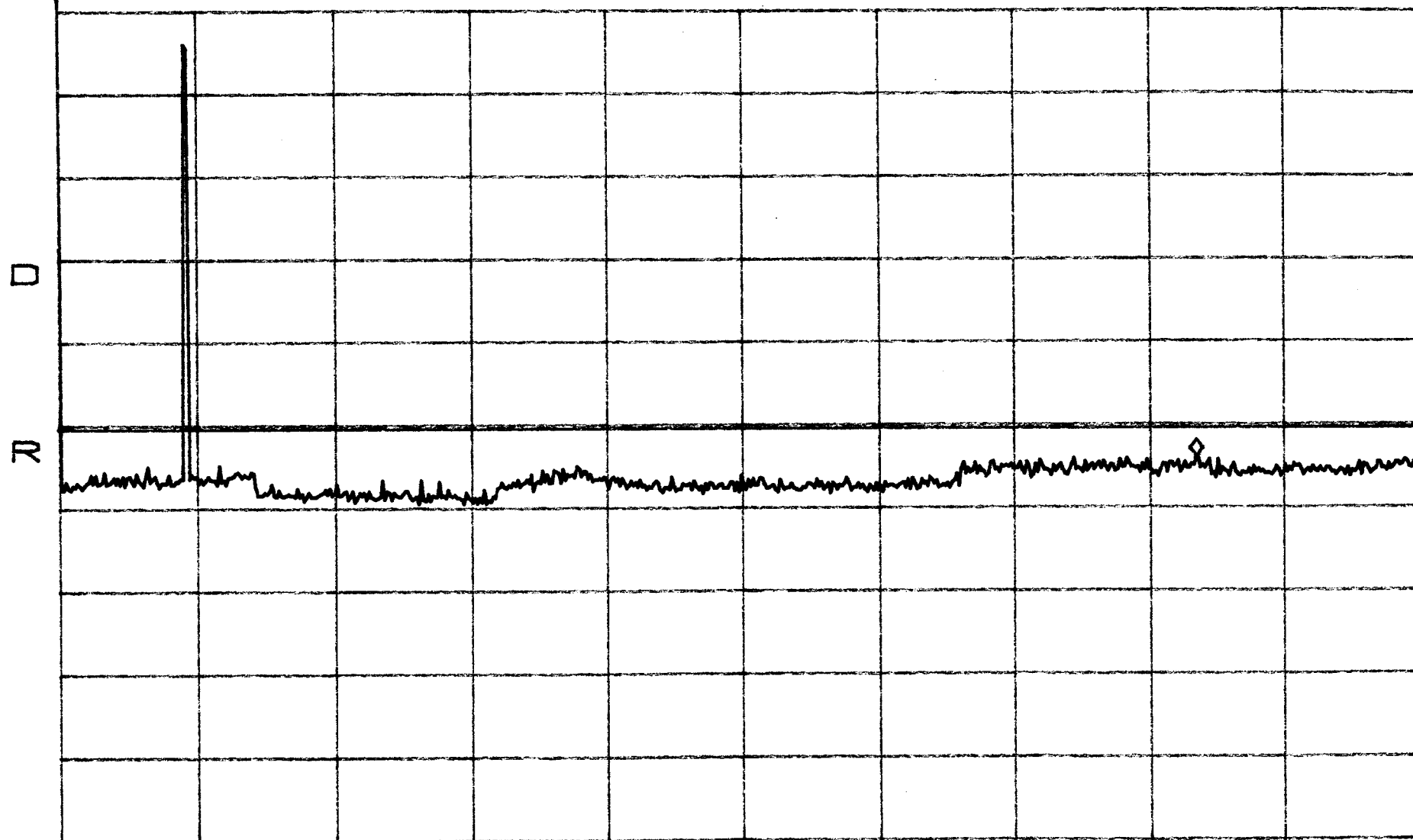
Cond Emissions
High

BAND A

*ATTEN 10dB
RL 37.5dBm

10dB/

MKR -16.33dBm
16.70GHz



START 30MHz
*RBW 1.0MHz

VBW 1.0MHz

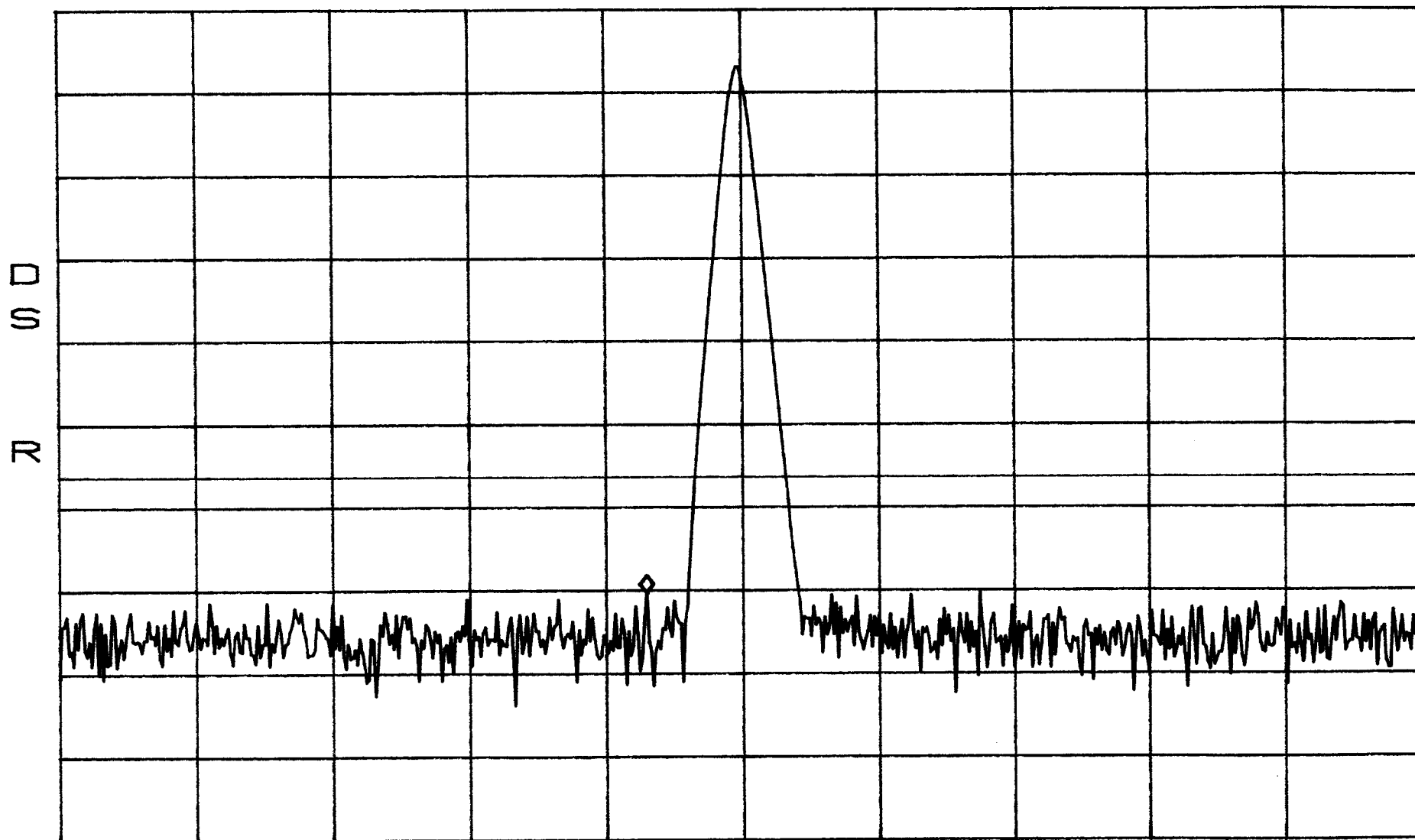
STOP 20.00GHz
SWP 400ms

COND Emission BAND B
LOW

*ATTEN 20dB
RL 43.4dBm

10dB/

MKR -26.77dBm
1.8632GHz



CENTER 1.8702GHz SPAN 100.0MHz
*RBW 1.0MHz VBW 1.0MHz SWP 50ms

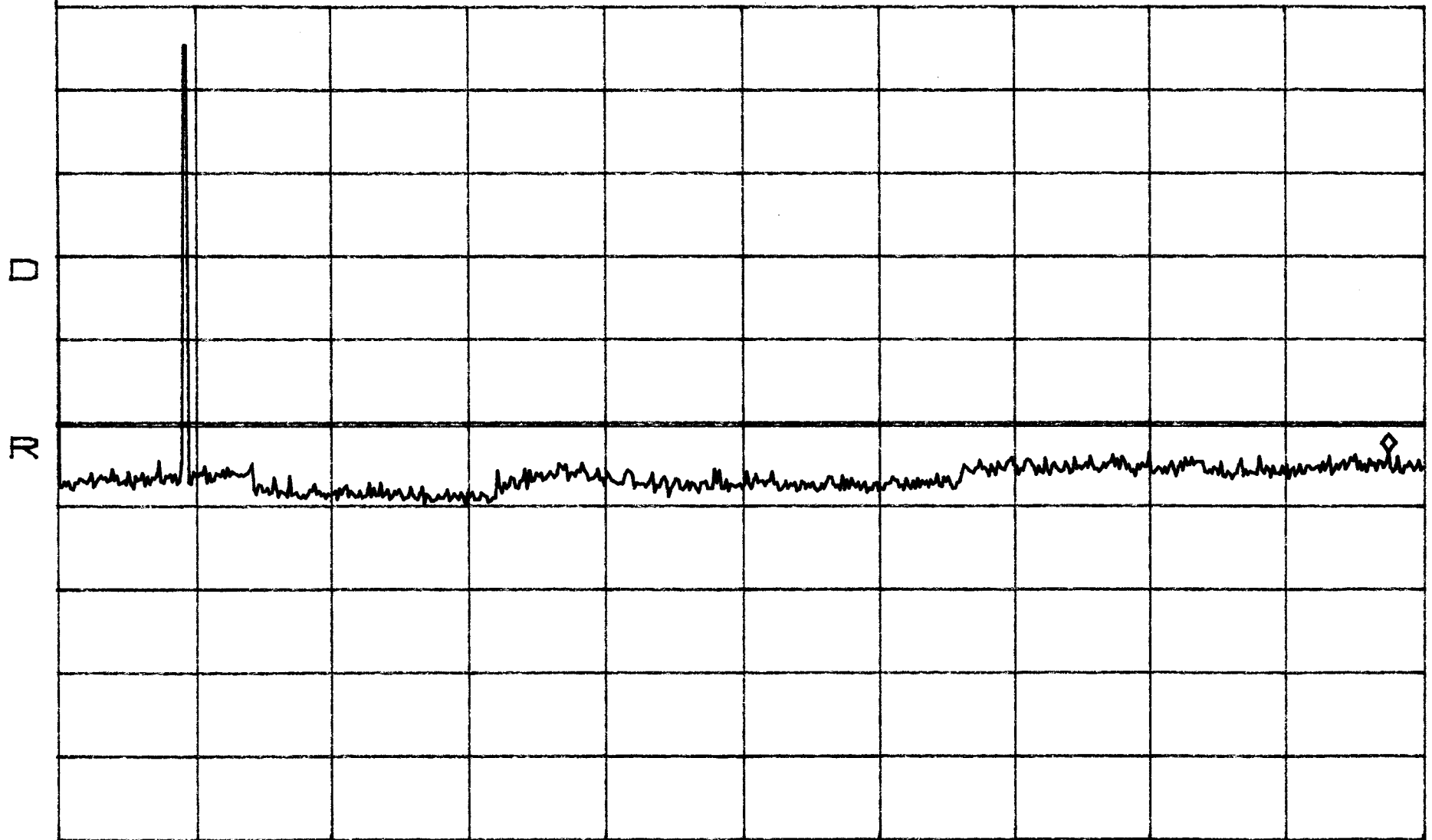
Cond Emissions
Low

BAND B

*ATTEN 10dB
RL 37.5dBm

10dB/

MKR -15.83dBm
19.50GHz



START 30MHz

STOP 20.00GHz

*RBW 1.0MHz

VBW 1.0MHz

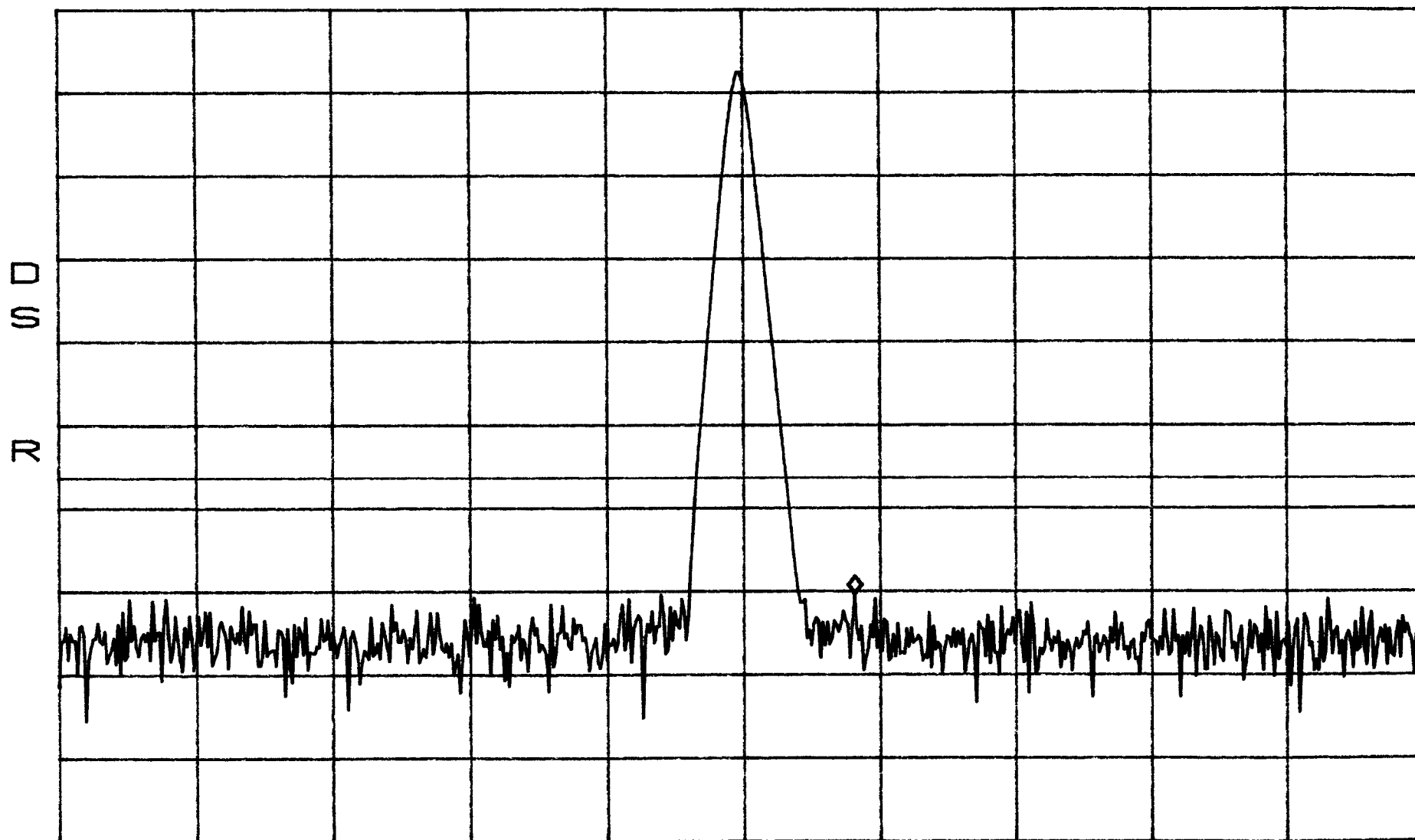
SWP 400ms

COND Emission BAND B
Med

*ATTEN 20dB
RL 43.4dBm

10dB/

MKR -26.77dBm
1.8857GHz



CENTER 1.8775GHz
*RBW 1.0MHz VBW 1.0MHz

SPAN 100.0MHz
SWP 50ms

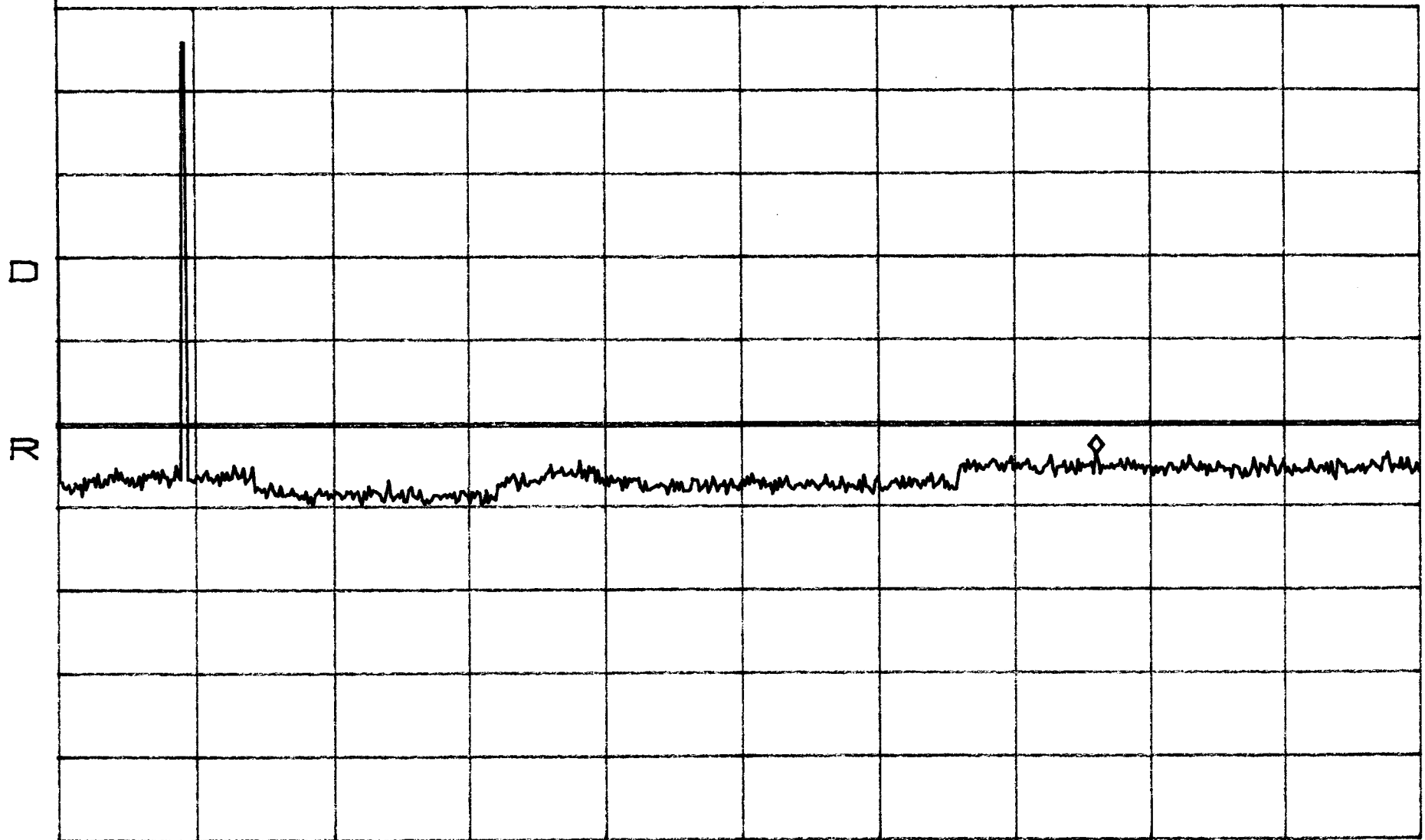
Cond Emissions
Mid

BAND B

*ATTEN 10dB
RL 37.5dBm

10dB/

MKR -16.17dBm
15.21GHz



START 30MHz

STOP 20.00GHz

*RBW 1.0MHz

VBW 1.0MHz

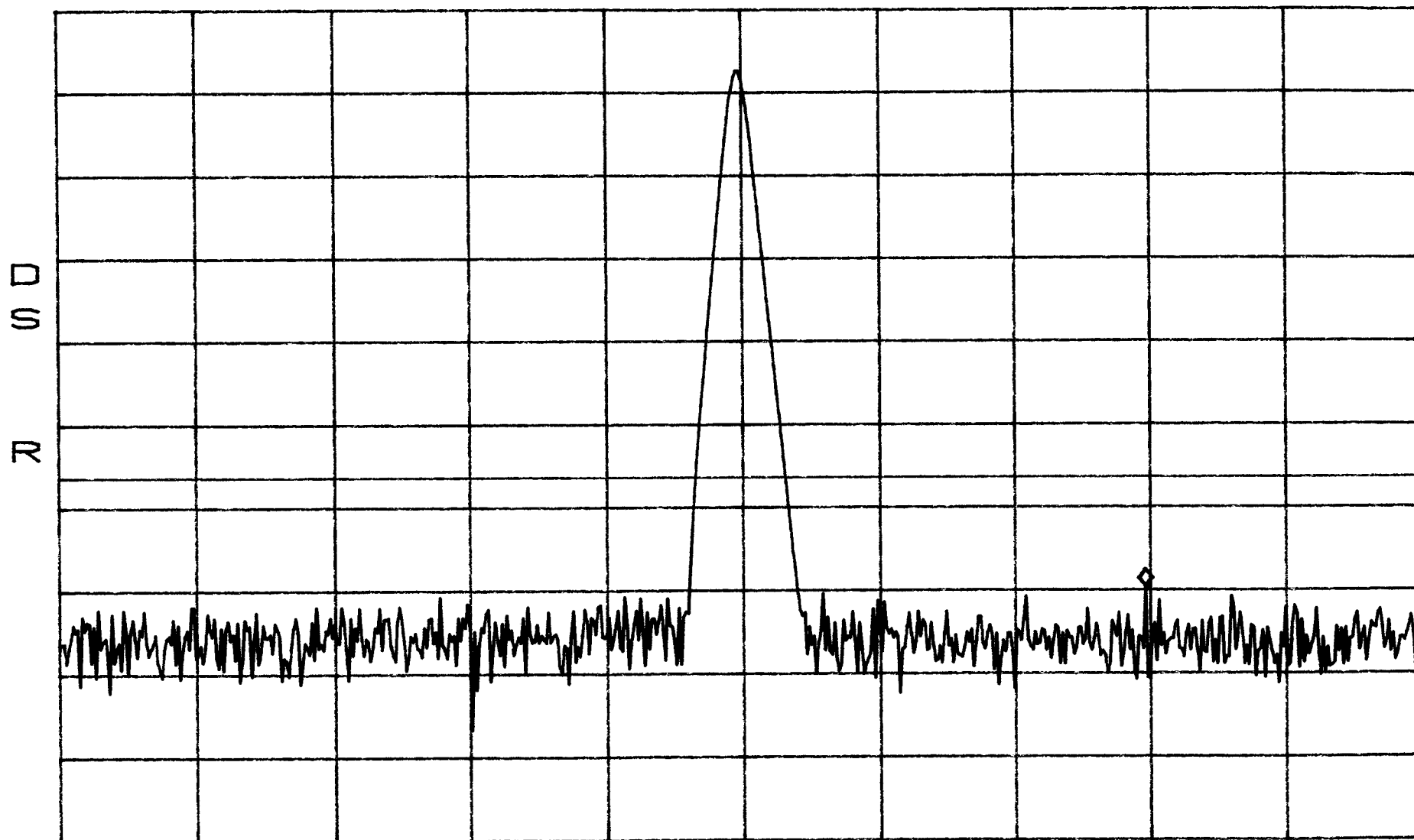
SWP 400ms

COND Emission BAND B
High

*ATTEN 20dB
RL 43.4dBm

10dB/

MKR -26.10dBm
1.9145GHz



CENTER 1.8848GHz
*RBW 1.0MHz VBW 1.0MHz

SPAN 100.0MHz
SWP 50ms

Cond Emissions
High

BAND B

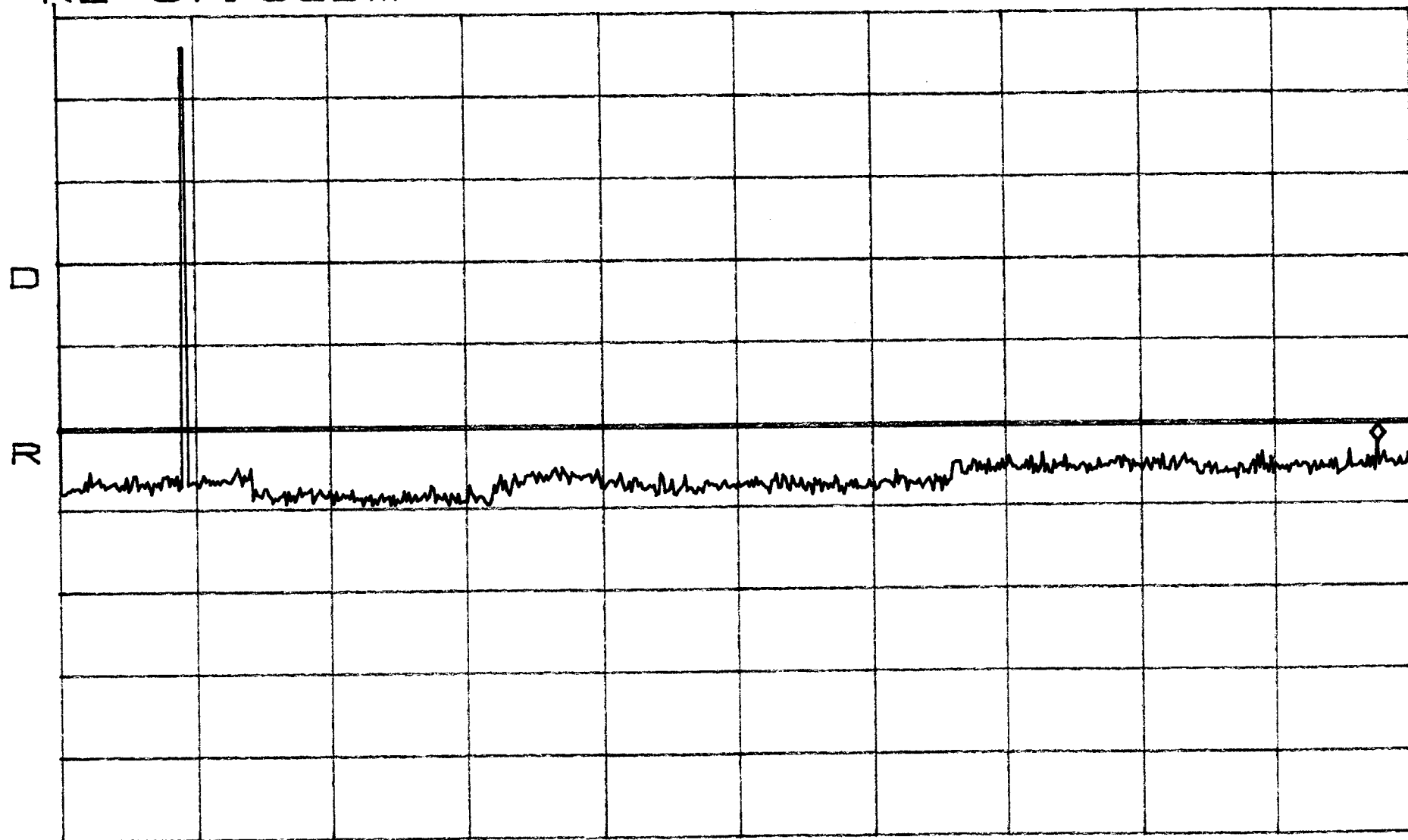
*ATTEN 10dB

MKR -15.00dBm

RL 37.5dBm

10dB/

19.50GHz



START 30MHz

STOP 20.00GHz

*RBW 1.0MHz

VBW 1.0MHz

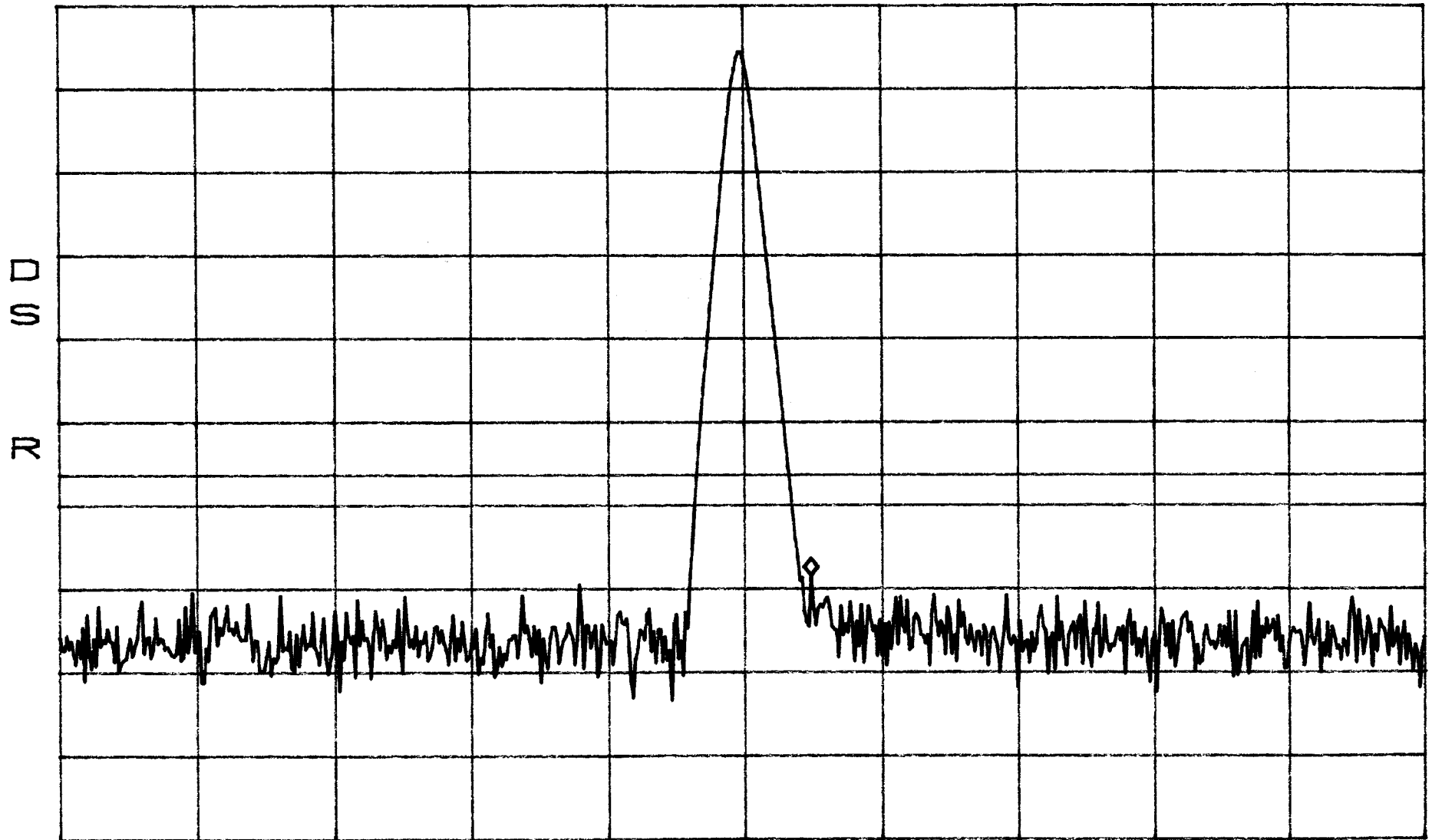
SWP 400ms

COND Emissions BAND C
LOW

*ATTEN 20dB
RL 43.4dBm

MKR -24.93dBm
1.9000GHz

10dB/



CENTER 1.8952GHz
*RBW 1.0MHz VBW 1.0MHz

SPAN 100.0MHz
SWP 50ms

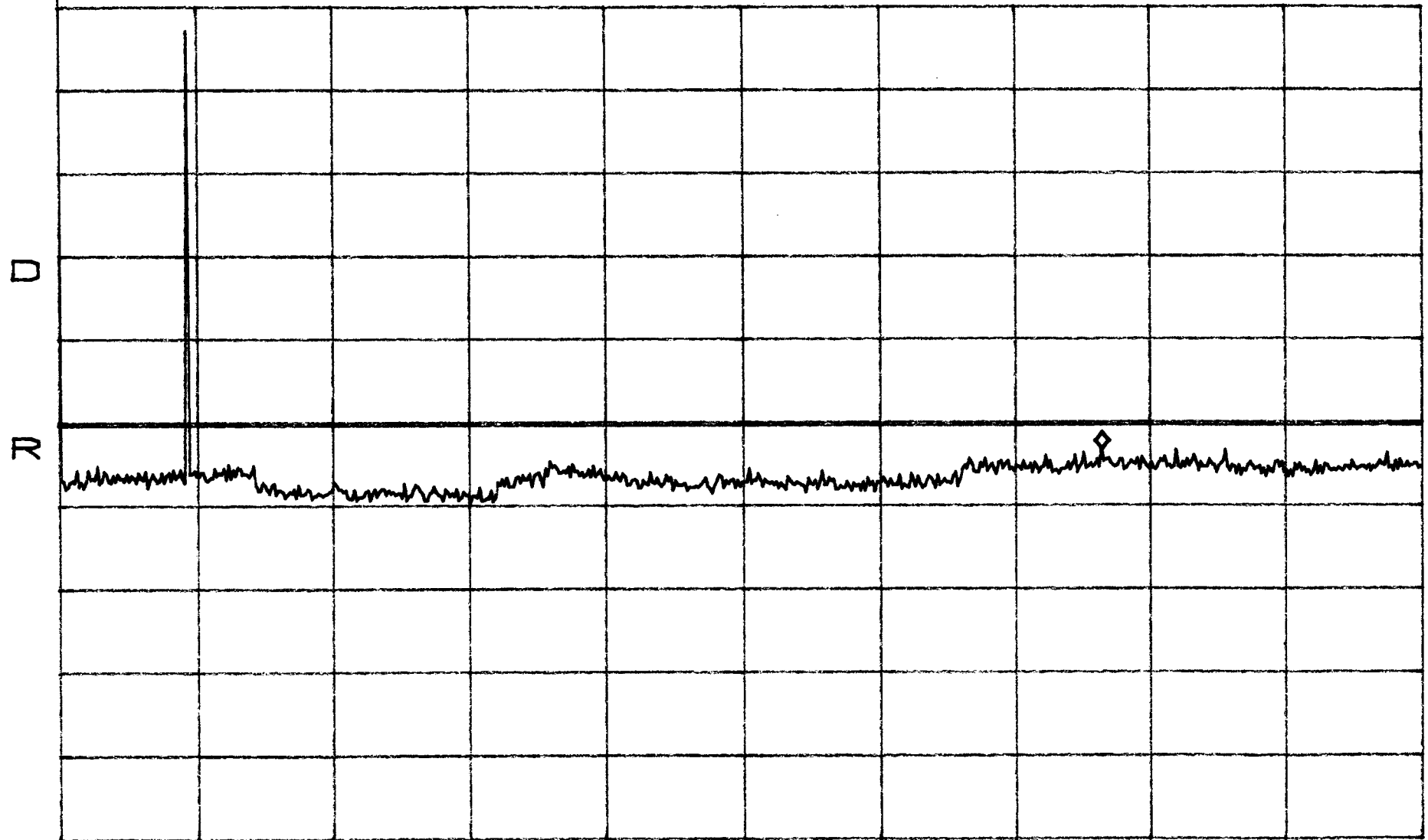
Cond Emissions
LOW

BAND C

*ATTEN 10dB
RL 37.5dBm

10dB/

MKR -15.67dBm
15.31GHz



START 30MHz
*RBW 1.0MHz

VBW 1.0MHz

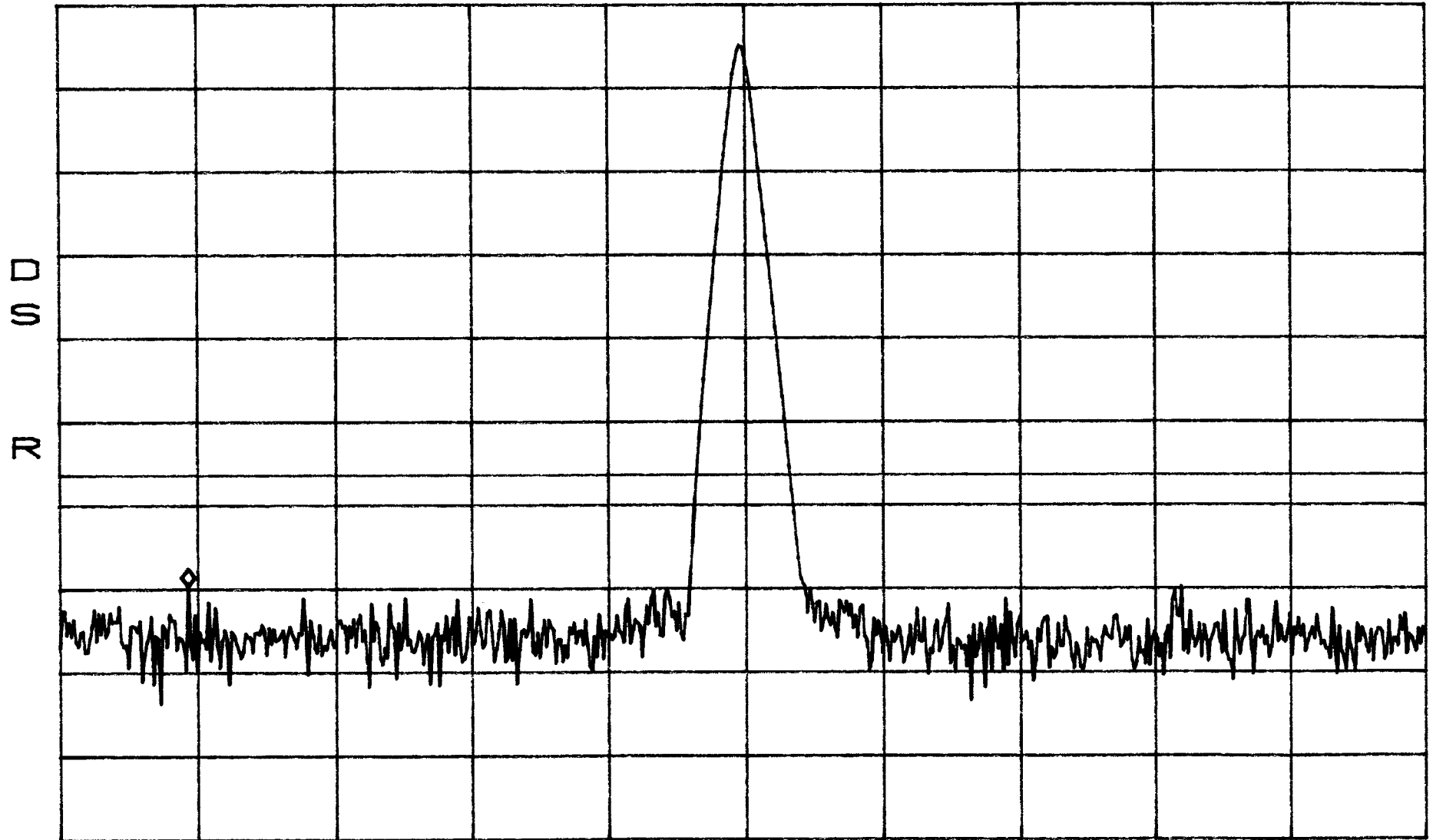
STOP 20.00GHz
SWP 400ms

COND Emissions BAND C
mid

*ATTEN 20dB
RL 43.4dBm

MKR -26.10dBm
1.8618GHz

10dB/



CENTER 1.9025GHz

SPAN 100.0MHz

*RBW 1.0MHz

VBW 1.0MHz

SWP 50ms

Cond Emissions
Mid

BAND C

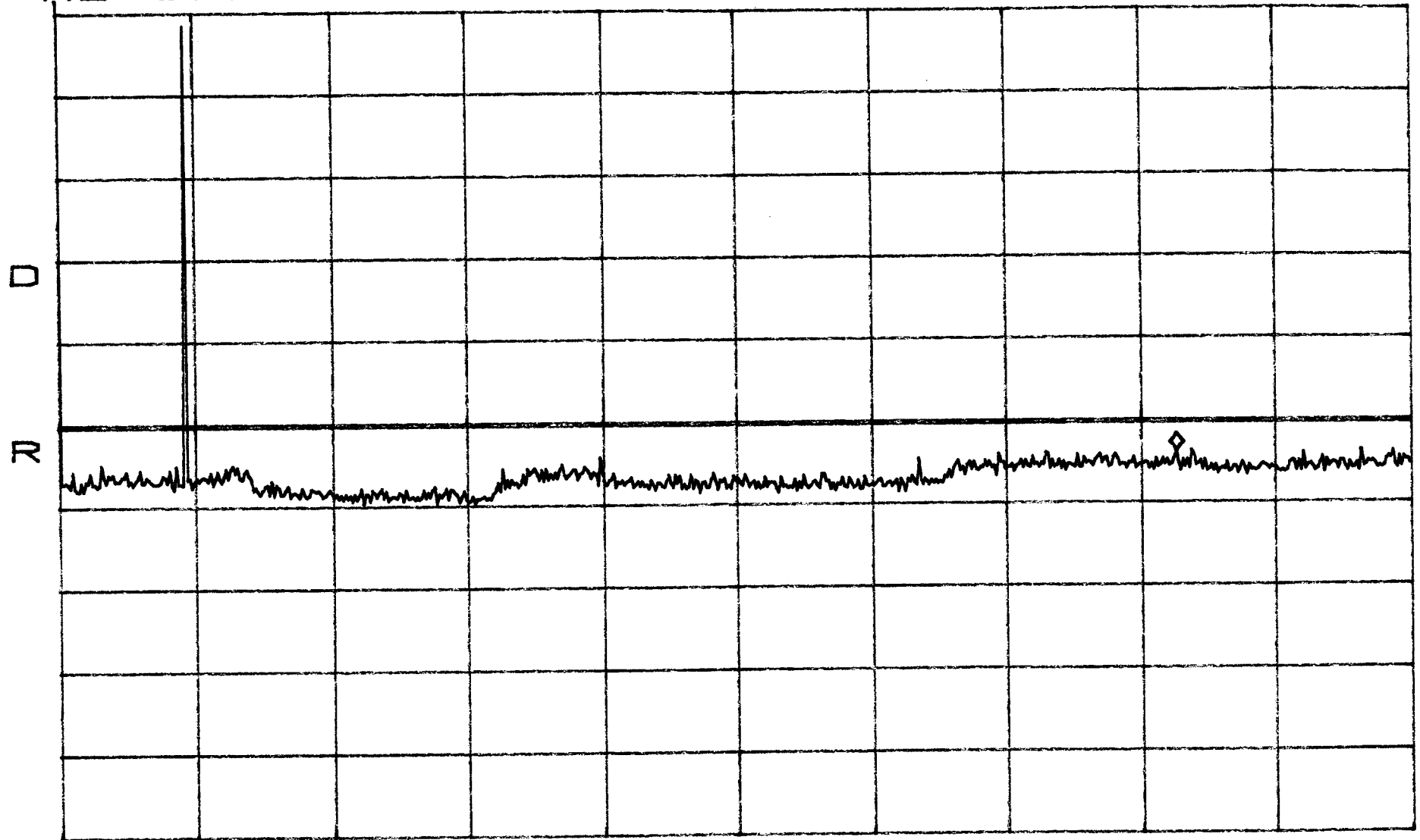
*ATTEN 10dB

MKR -16.17dBm

RL 37.5dBm

10dB/

16.54GHz



START 30MHz

STOP 20.00GHz

*RBW 1.0MHz

VBW 1.0MHz

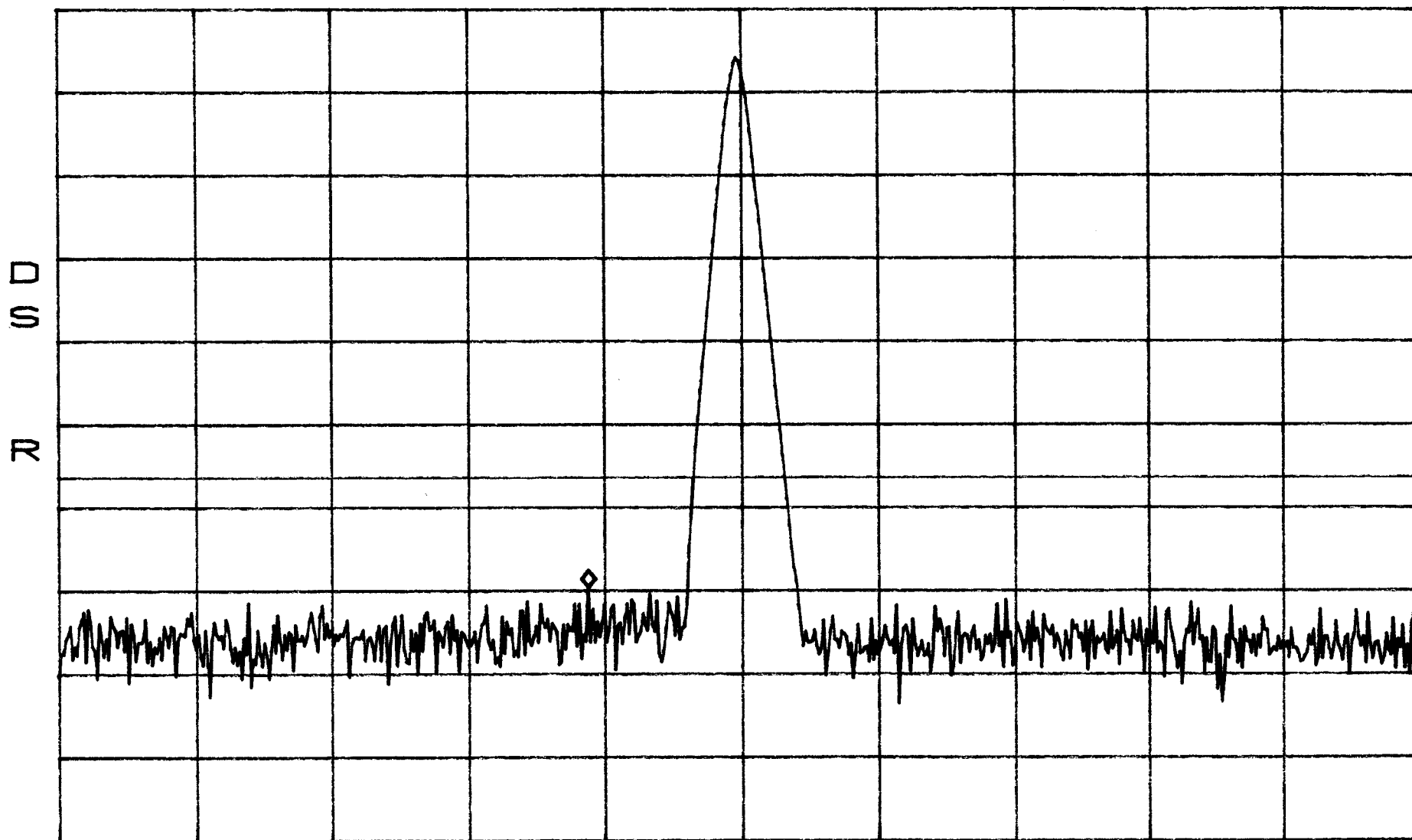
SWP 400ms

COND Emissions BAND C
High

*ATTEN 20dB
RL 43.4dBm

MKR -26.10dBm
1.8986GHz

10dB/



CENTER 1.9098GHz
*RBW 1.0MHz VBW 1.0MHz

SPAN 100.0MHz
SWP 50ms

Cond Emissions
High

BAND C

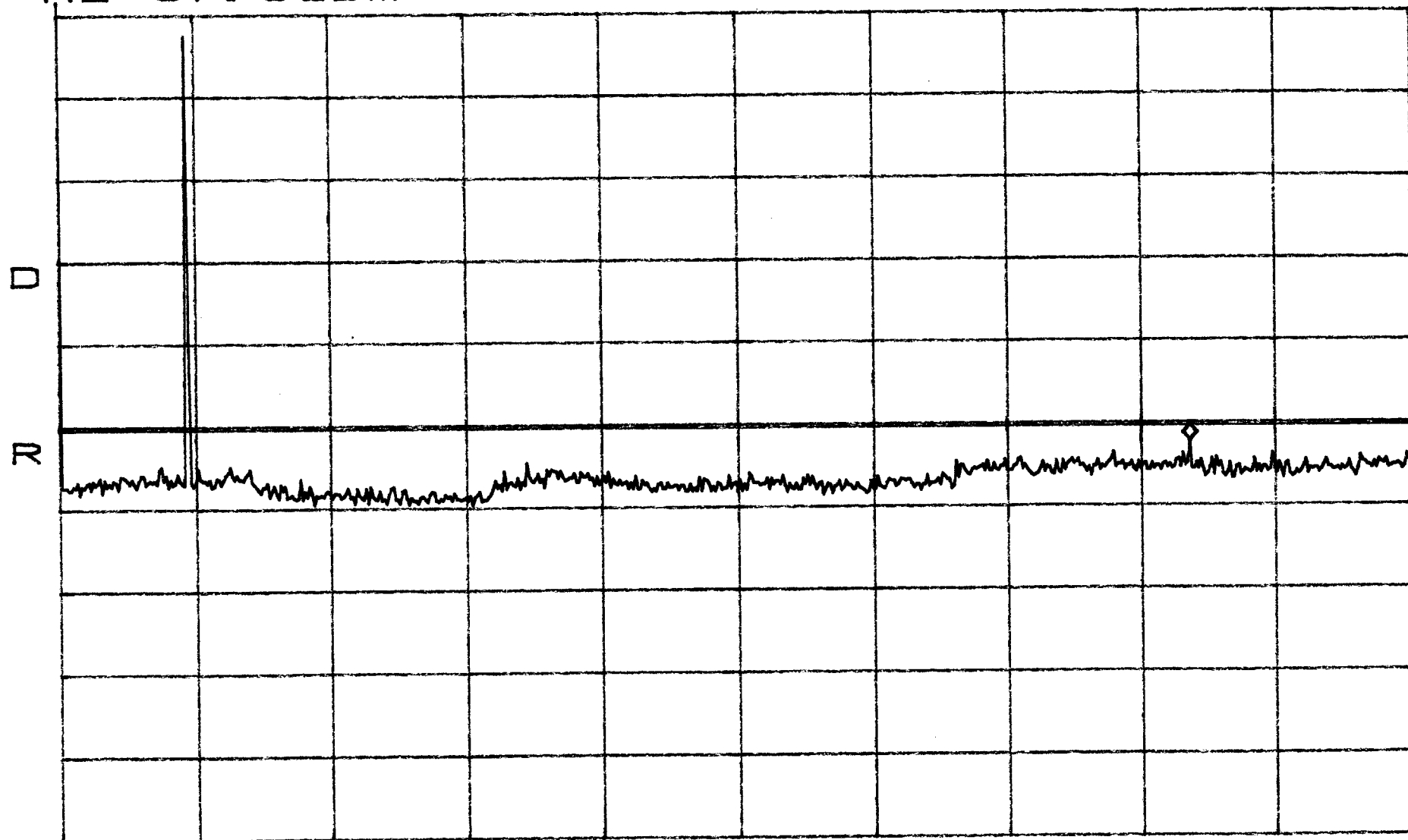
*ATTEN 10dB

MKR -14.67dBm

RL 37.5dBm

10dB/

16.74GHz



START 30MHz

STOP 20.00GHz

*RBW 1.0MHz

VBW 1.0MHz

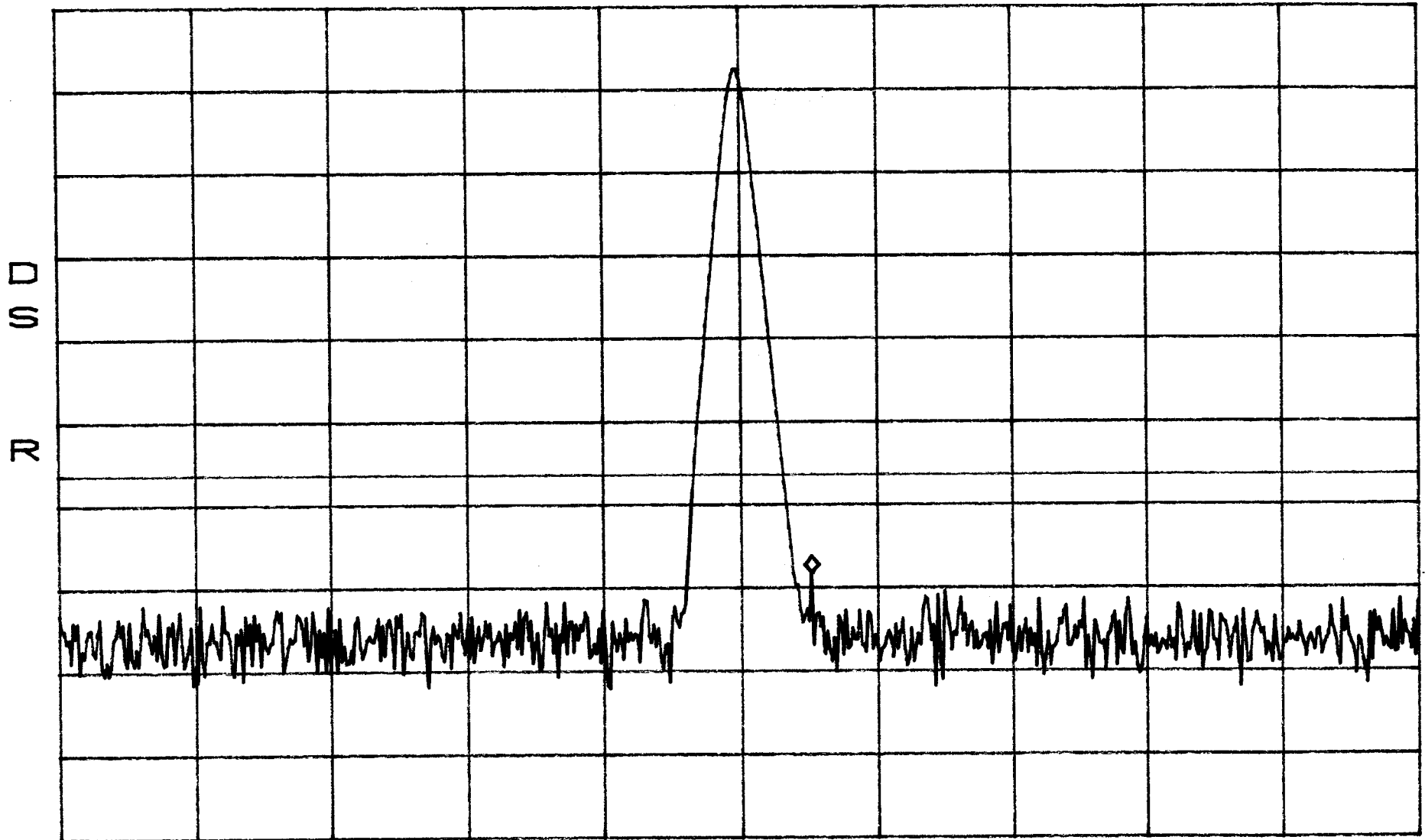
SWP 400ms

COND Emissions BAND D
LOW

*ATTEN 20dB
RL 43.4dBm

10dB/

MKR -24.77dBm
1.8704GHz



CENTER 1.8652GHz
*RBW 1.0MHz VBW 1.0MHz

SPAN 100.0MHz
SWP 50ms

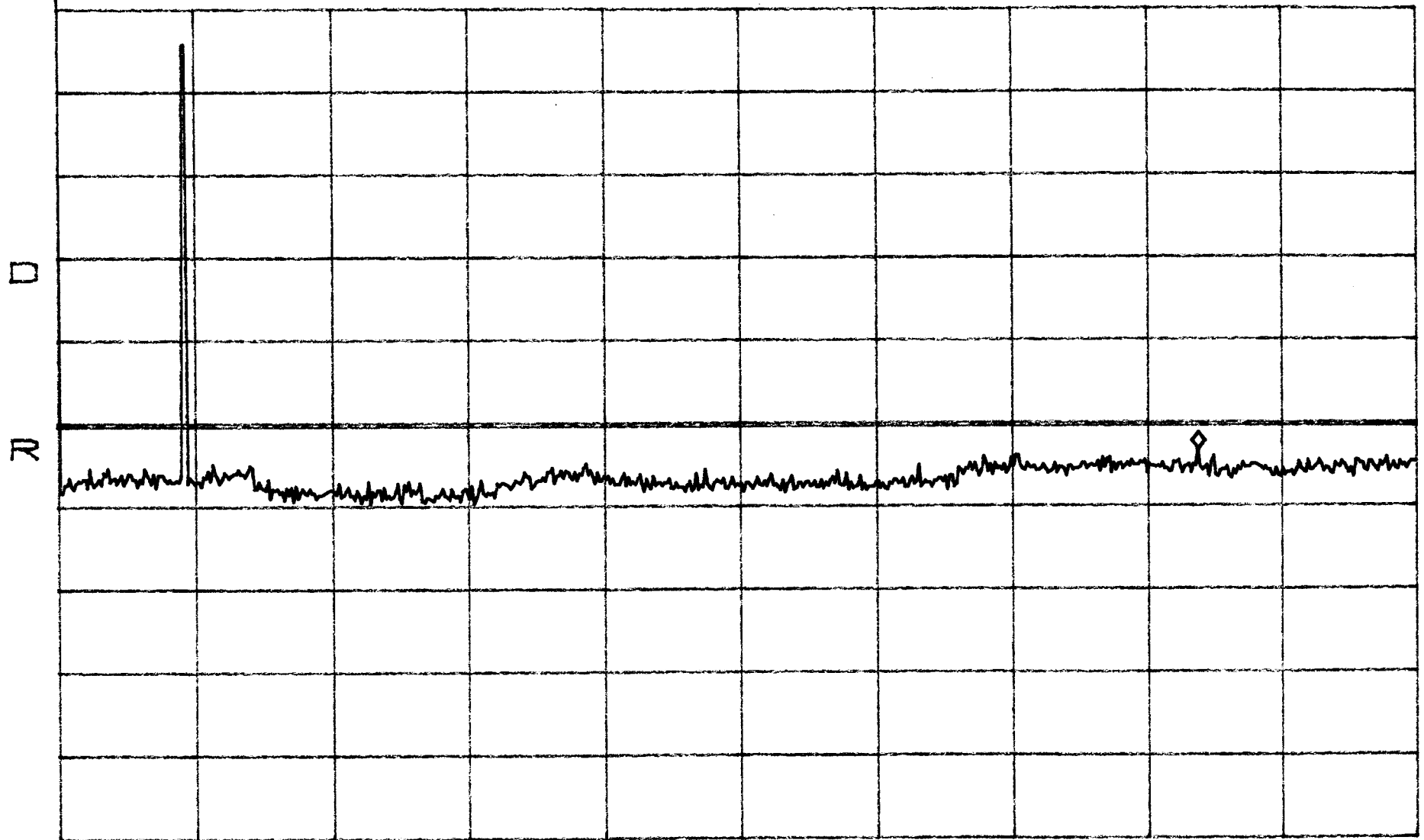
Cond Emissions
Low

BAND D

*ATTEN 10dB
RL 37.5dBm

10dB/

MKR -15.67dBm
16.77GHz



START 30MHz

STOP 20.00GHz

*RBW 1.0MHz

VBW 1.0MHz

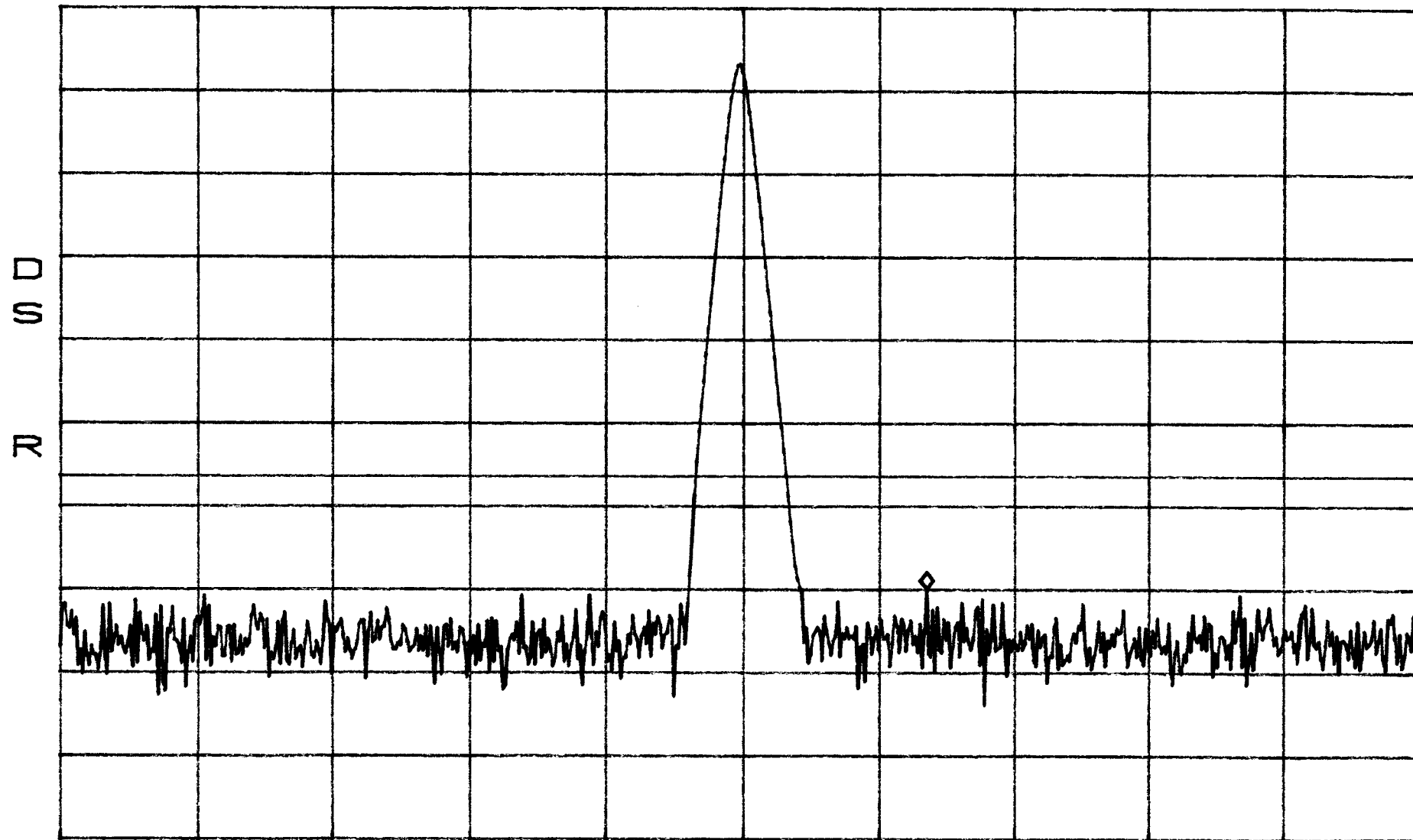
SWP 400ms

COND Emissions BAND D
Mid

*ATTEN 20dB
RL 43.4dBm

10dB/

MKR -26.43dBm
1.8810GHz



CENTER 1.8675GHz
*RBW 1.0MHz VBW 1.0MHz

SPAN 100.0MHz
SWP 50ms

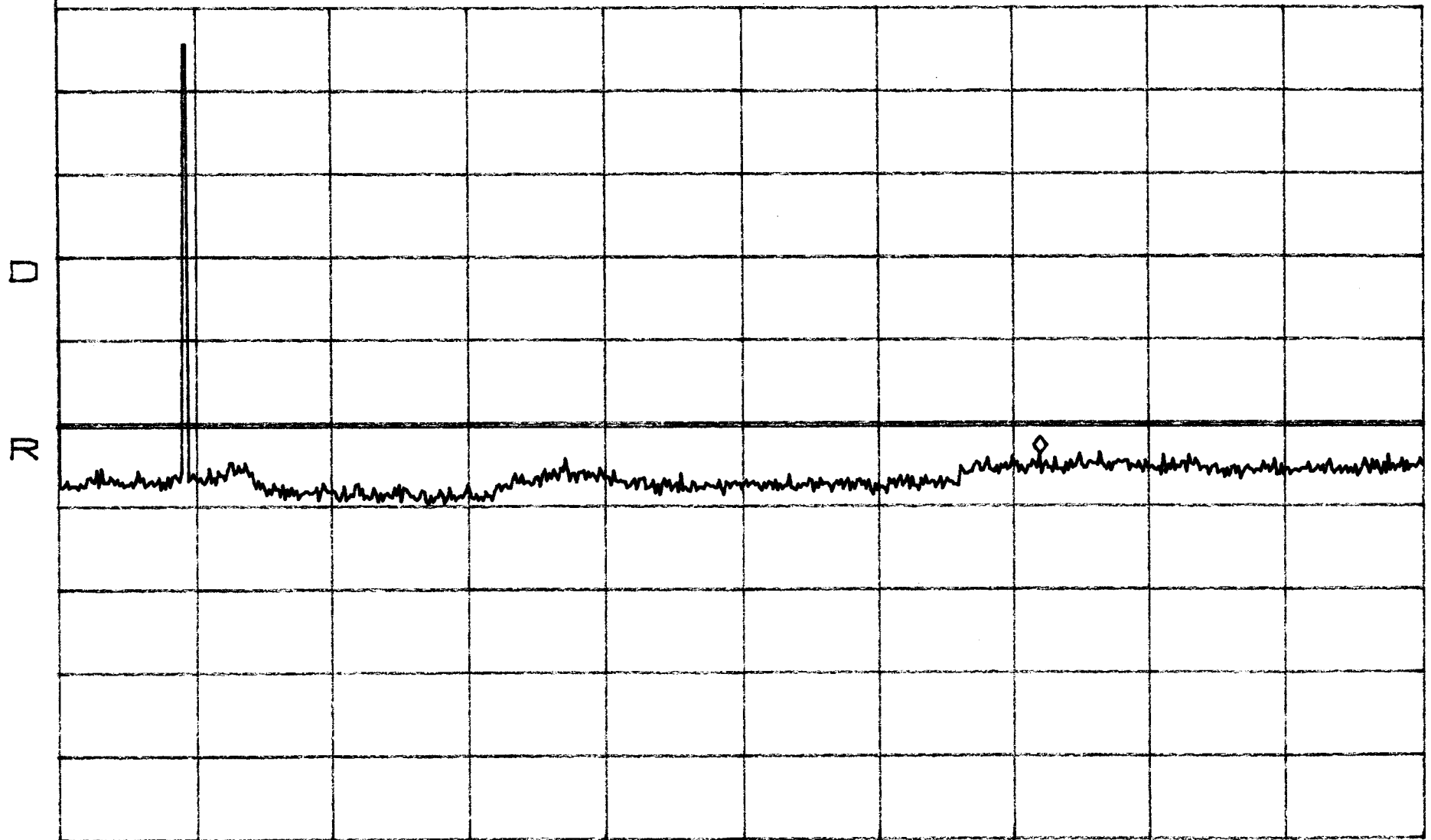
Cond Emissions
Mid

BAND D

*ATTEN 10dB
RL 37.5dBm

10dB/

MKR -16.17dBm
14.41GHz



START 30MHz

STOP 20.00GHz

*RBW 1.0MHz

VBW 1.0MHz

SWP 400ms