

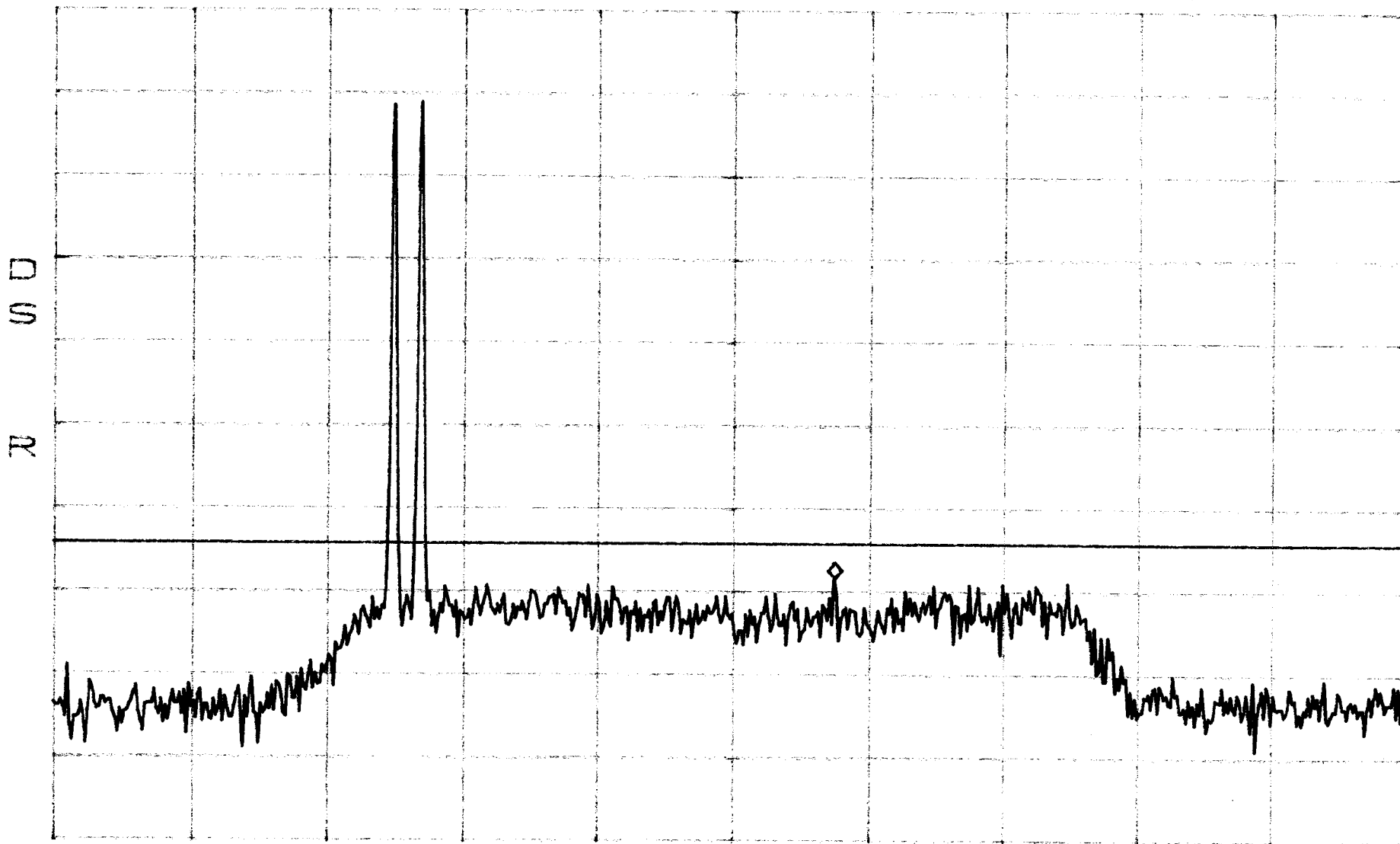
\*ATTEN 30dB

MKR -17.03dBm

RL 51.3dBm

10dB/

1.96625GHz



CENTER 1.96250GHz

SPAN 50.00MHz

\*RBW 30kHz

VBW 30kHz

SWP 140ms

Intermodulation

BAND B,E,F

Close

FM

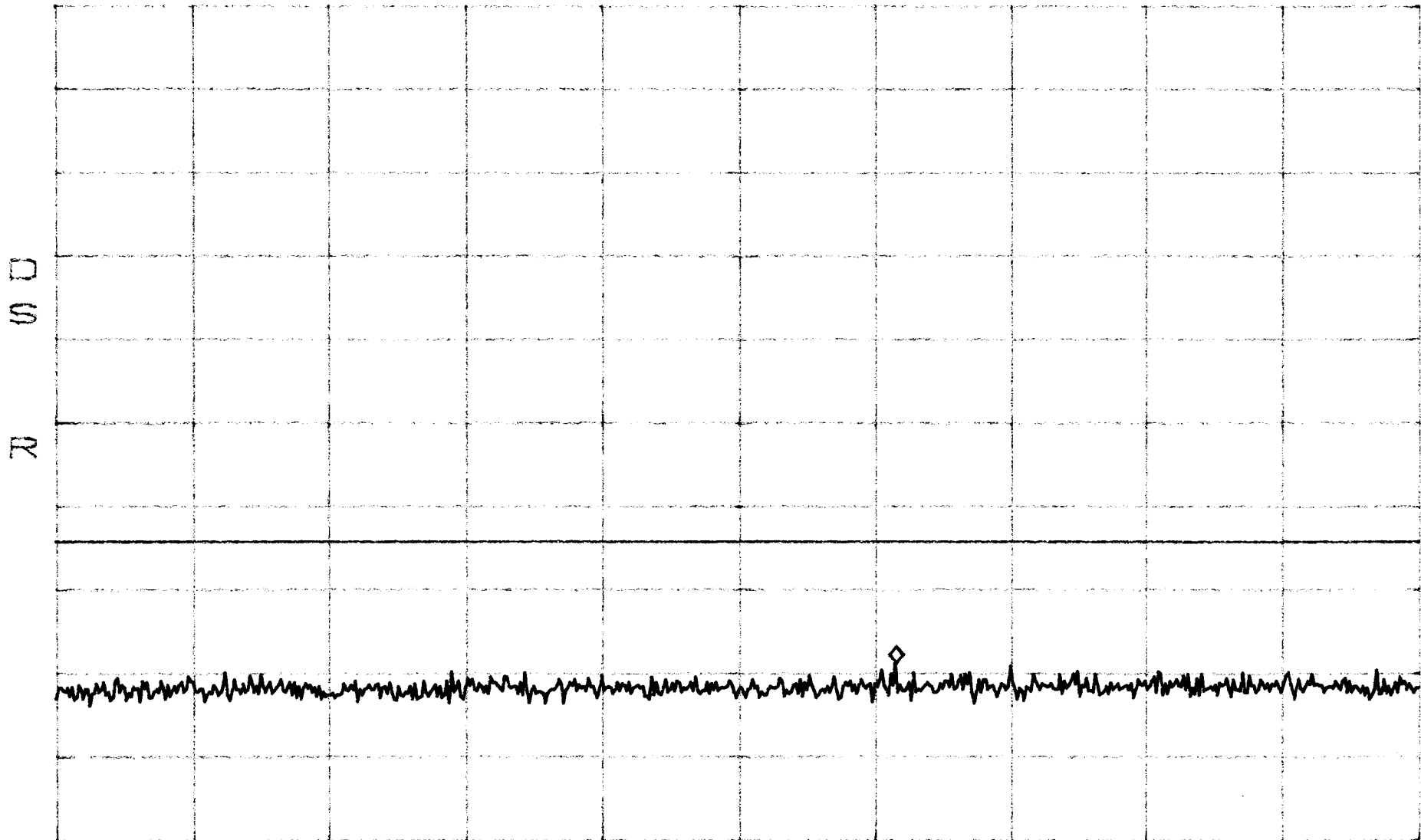
\*ATTEN 30dB

MKR -27.37dBm

RL 51.3dBm

10dB/

626.6MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 30kHz

VBW 30kHz

SWP 2.7sec

Intermodulation

BAND B,E,F

Close

FM

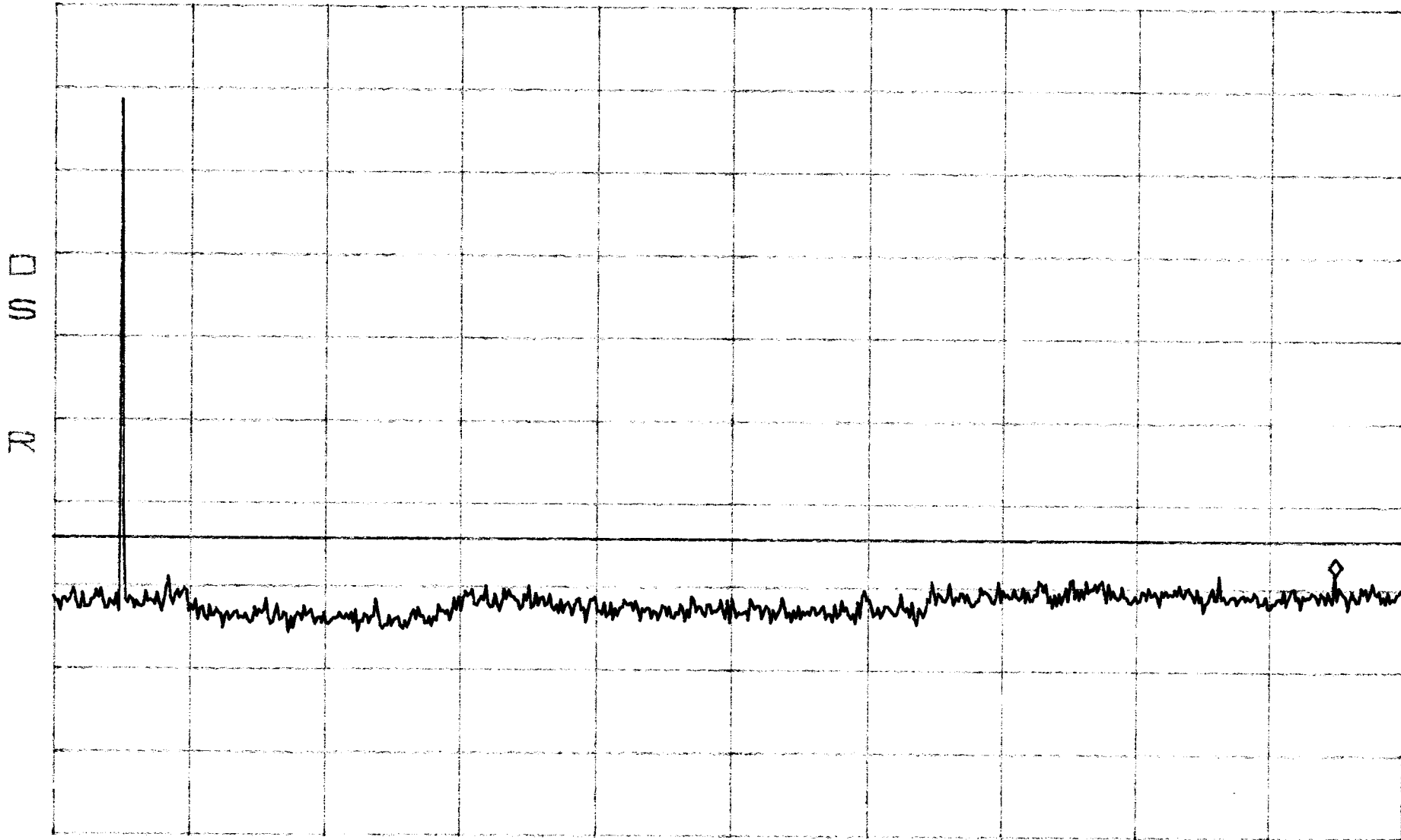
\*ATTEN 30dB

MKR -16.87dBm

RL 51.3dBm

10dB/

19.05GHz



START 1.00GHz

STOP 20.00GHz

\*RBW 300kHz

VBW 300kHz

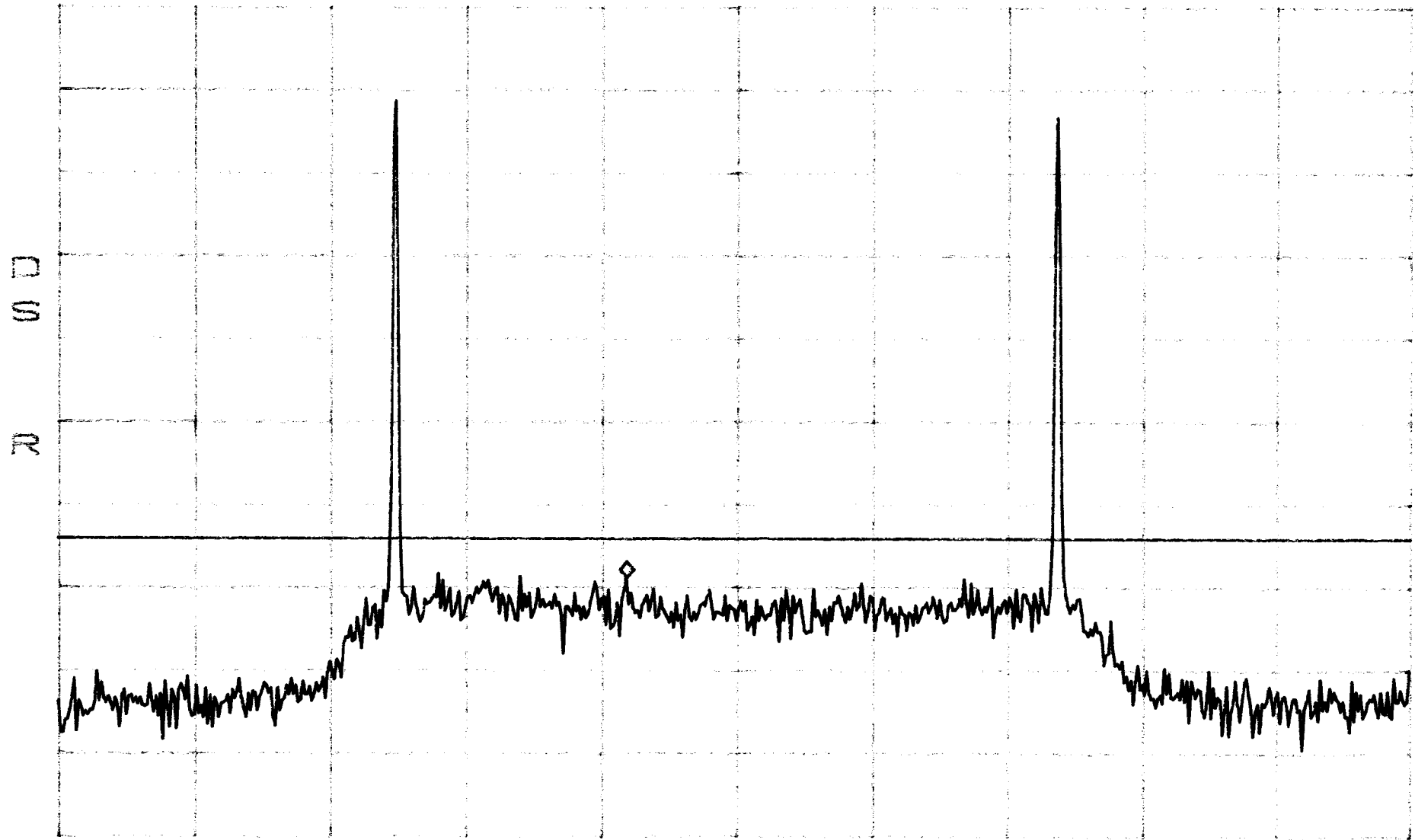
SWP 530ms

Intermodulation BAND B,E,F  
Apart  
FM

\*ATTEN 30dB  
RL 51.8dBm

10dB/

MKR -17.50dBm  
1.958420Hz



CENTER 1.952500GHz  
\*RBW 30kHz

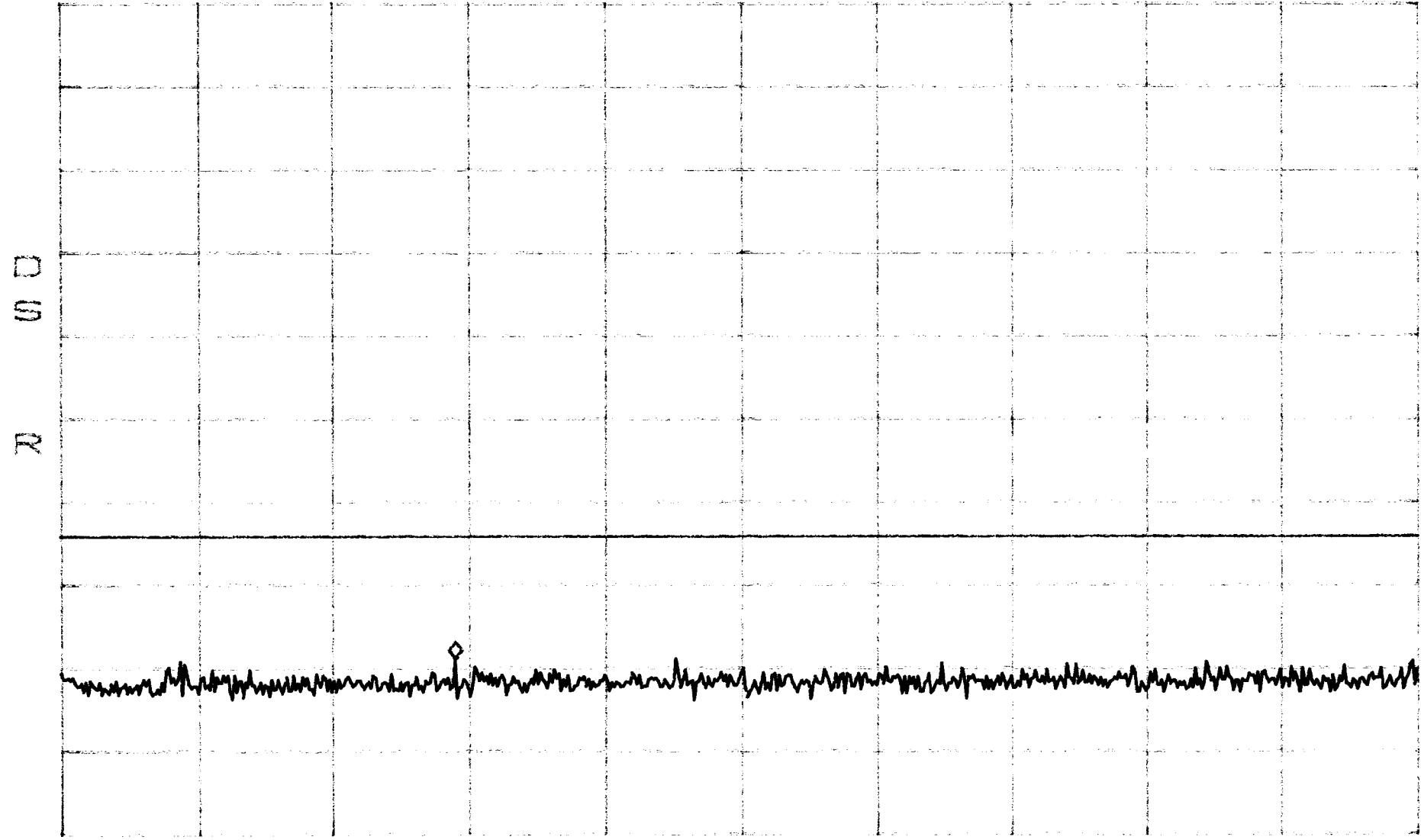
VBW 30kHz

SPAN 50.00MHz  
SWP 140ms

Intermodulation BAND B,E,F  
Apart  
FM

\*ATTEN 30dB  
RL 51.3dBm

MKR -27.53dBm  
311.3MHz

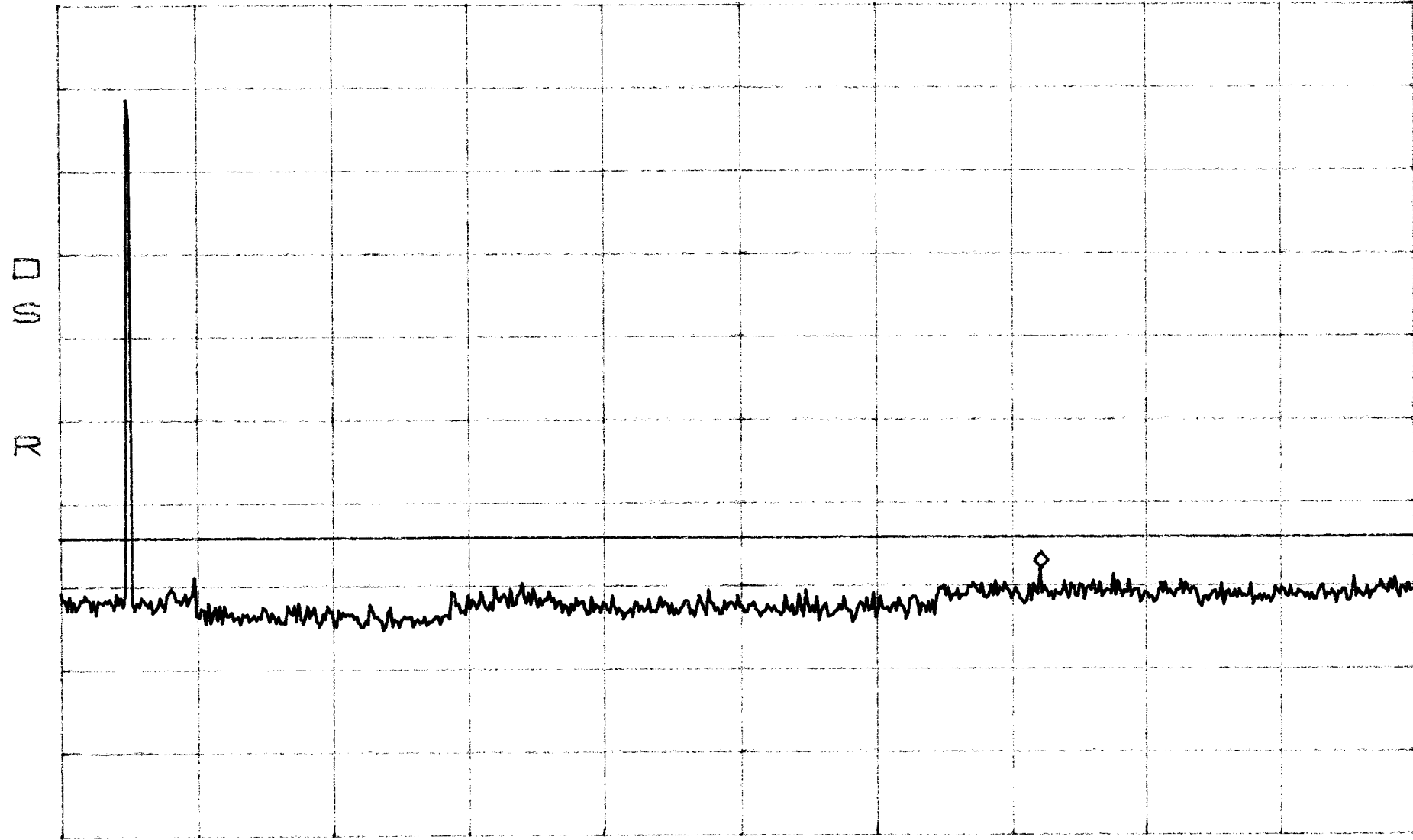


START 30.0MHz STOP 1.0000GHz  
\*RBW 30kHz VBW 30kHz SWP 2.7sec

Intermodulation BAND B,E,F  
Apart  
FM

\*ATTEN 30dB  
RBW 15.3dBm

MKR -16.70dBm  
14.71GHz



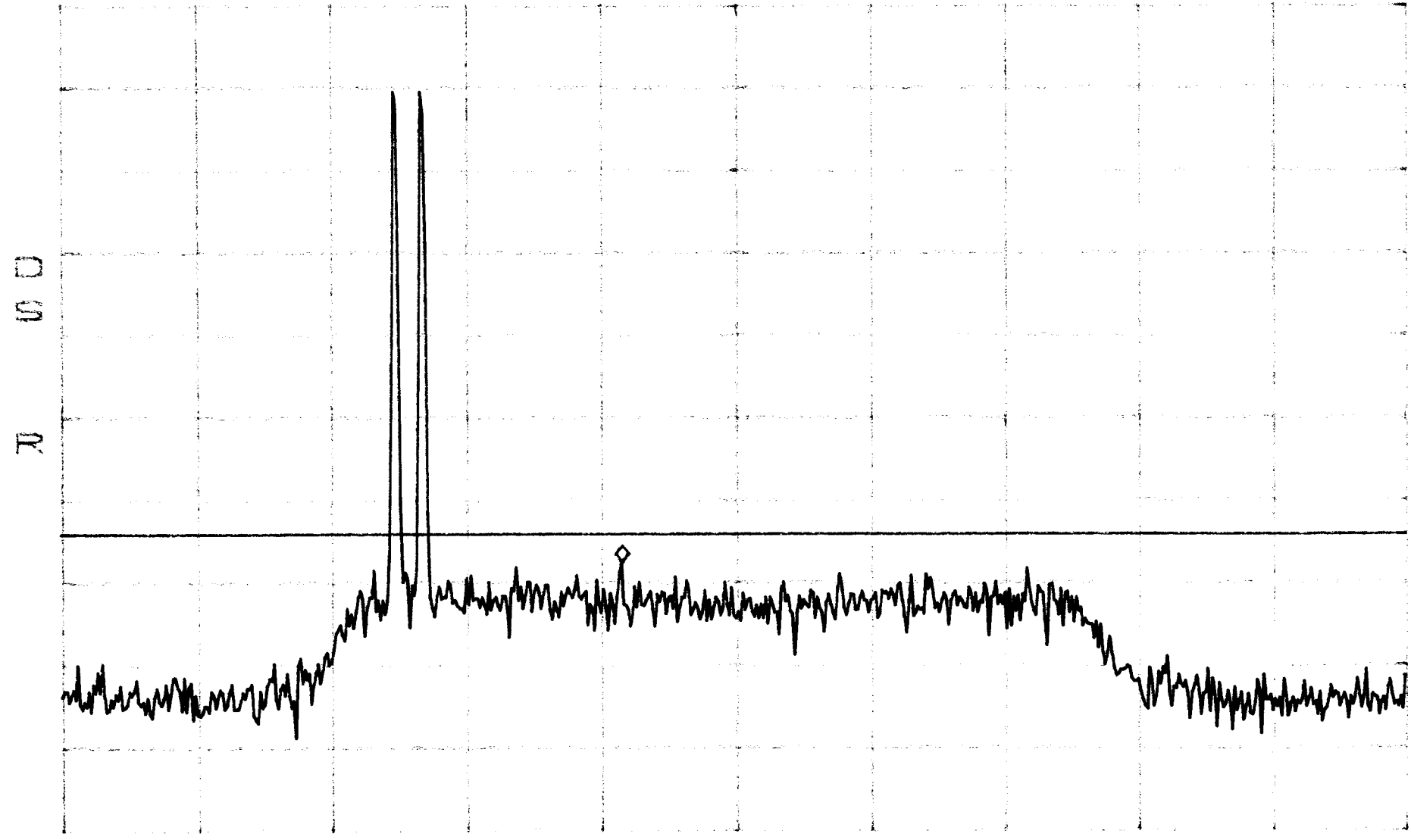
START 1.00GHz STOP 20.00GHz  
\*RBW 300kHz VBW 300kHz SWP 530ms

Intermodulation BAND B,E,F  
Close  
TDMA

\*ATTEN 30dB  
RL 51.3dBm

NKR -16.20dBm  
1.96250GHz

10dB/



CENTER 1.96250GHz

SPAN 50.00MHz

\*RBW 30kHz

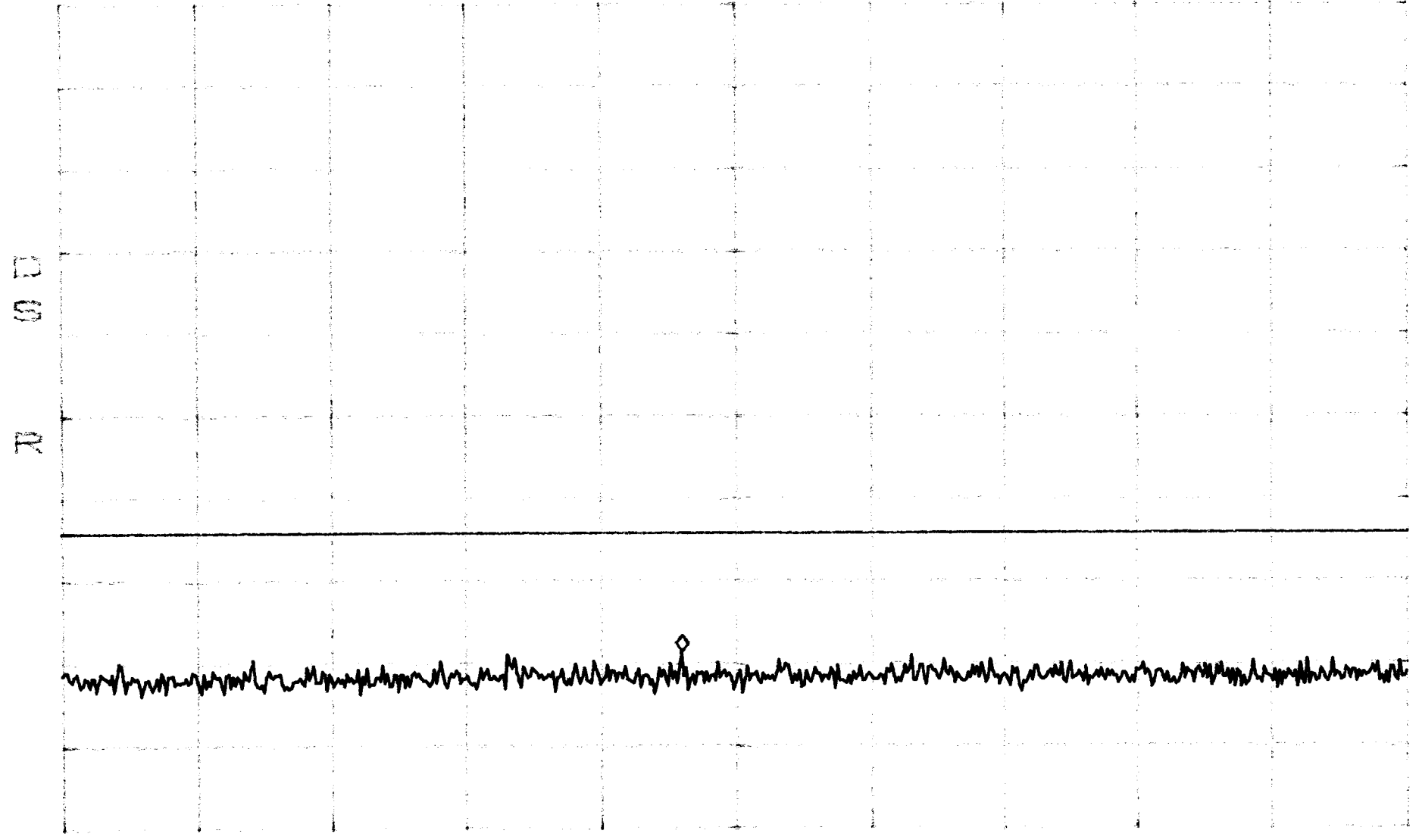
VBW 30kHz

SWP 140ms

Intermodulation BAND B, E, F  
Close  
TDMA

\*ATTEN 30dB  
BWFS 15.7R  
WBPB 15.7R

MKR -27.20dBm  
478.2MHz



START 30.0MHz STOP 1.0000GHz  
\*RBW 30kHz VBW 30kHz SWP 2.7sec

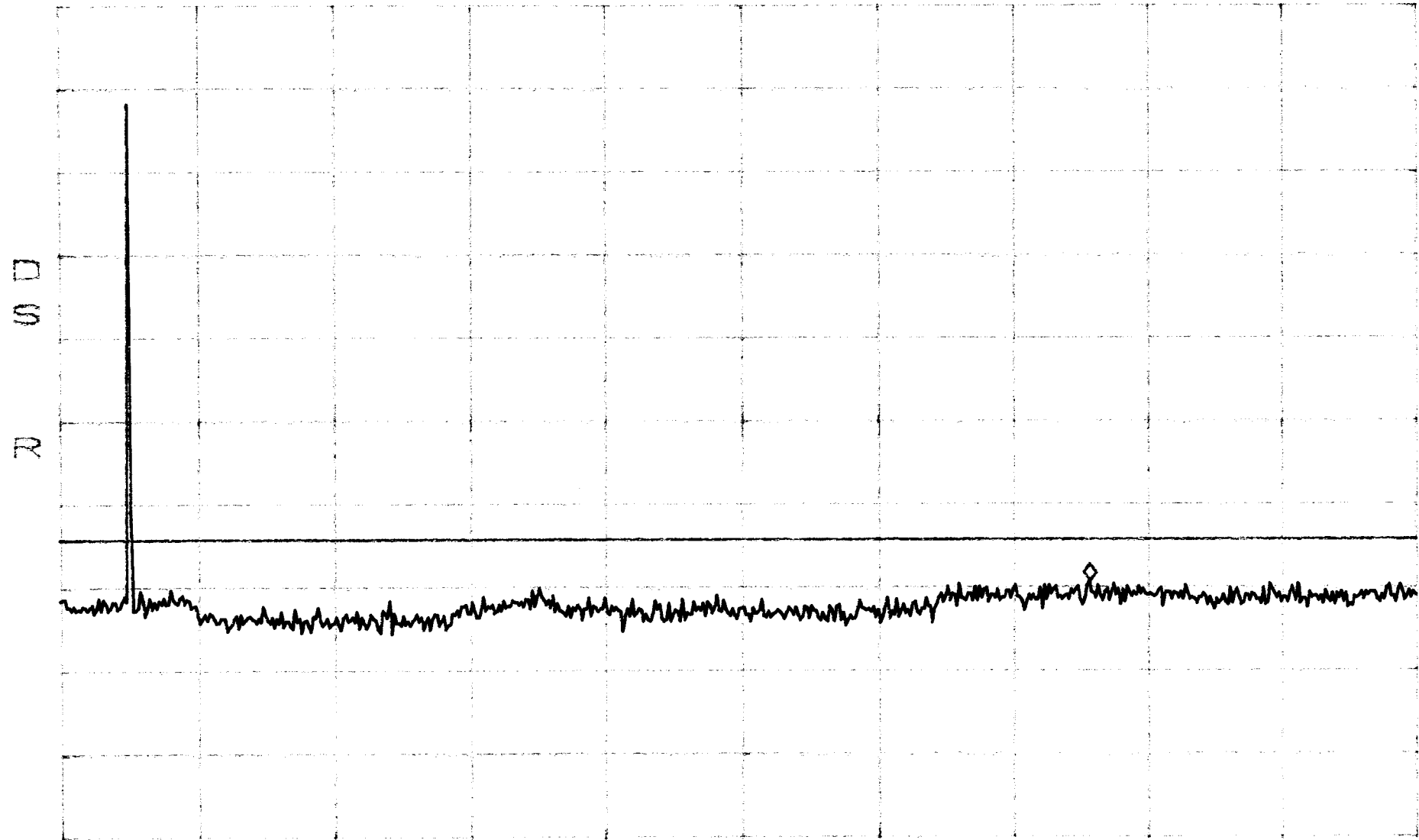


Intermodulation BAND B,E,F  
Close  
TDMA

\*ATTEN 30dB  
RL 51.3dBm

MKR -17.87dBm  
15.38GHz

10dB/



START 1.00GHz

STOP 20.00GHz

\*RBW 300kHz

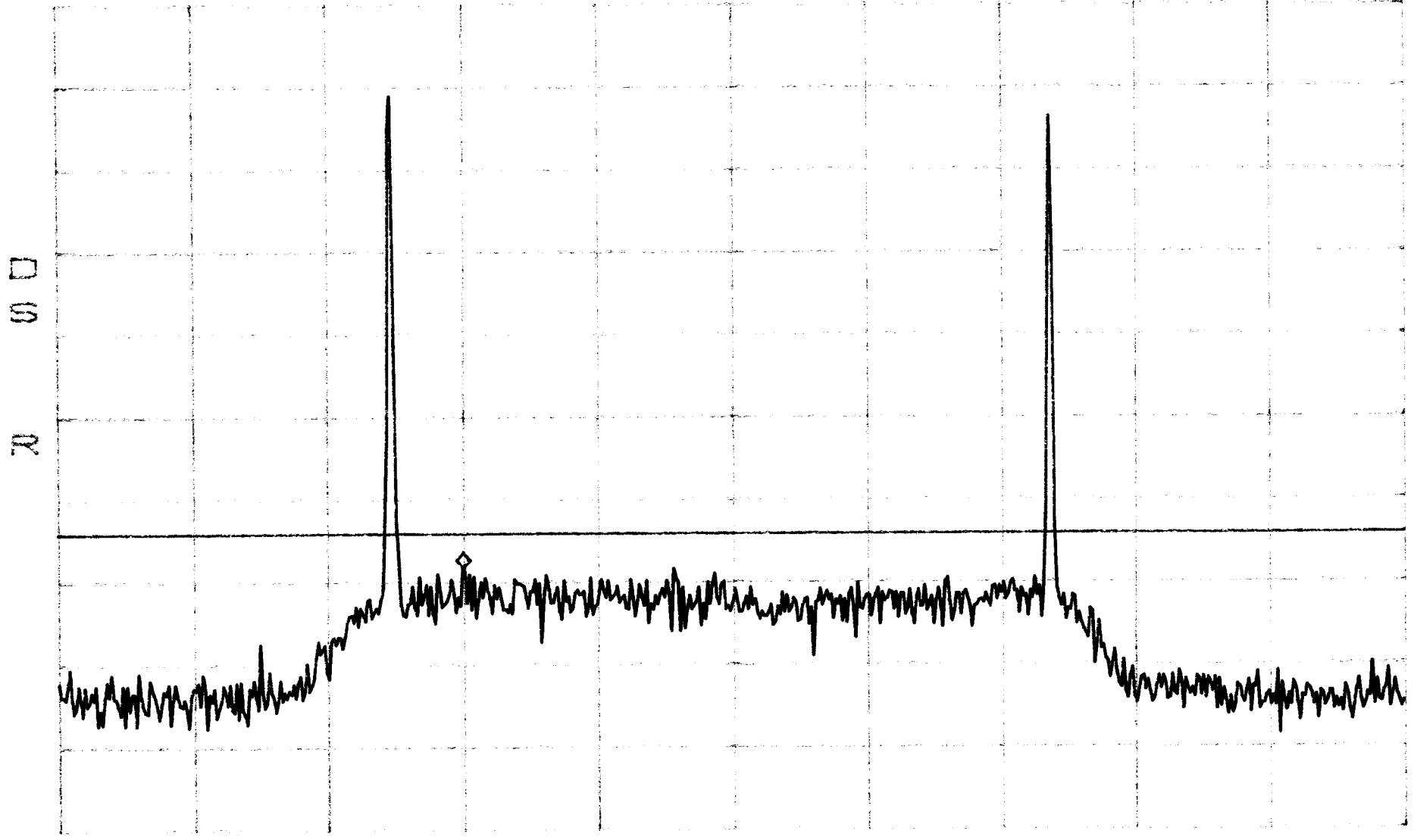
VBW 300kHz

SWP 530ms

Intermodulation BAND B,E,F  
Apart  
TDMA

\*ATTEN 30dB  
RL 51.3dBm

MKR -17.03dBm  
1.96250GHz



CENTER 1.96250GHz  
\*RBW 30kHz

VBW 30kHz

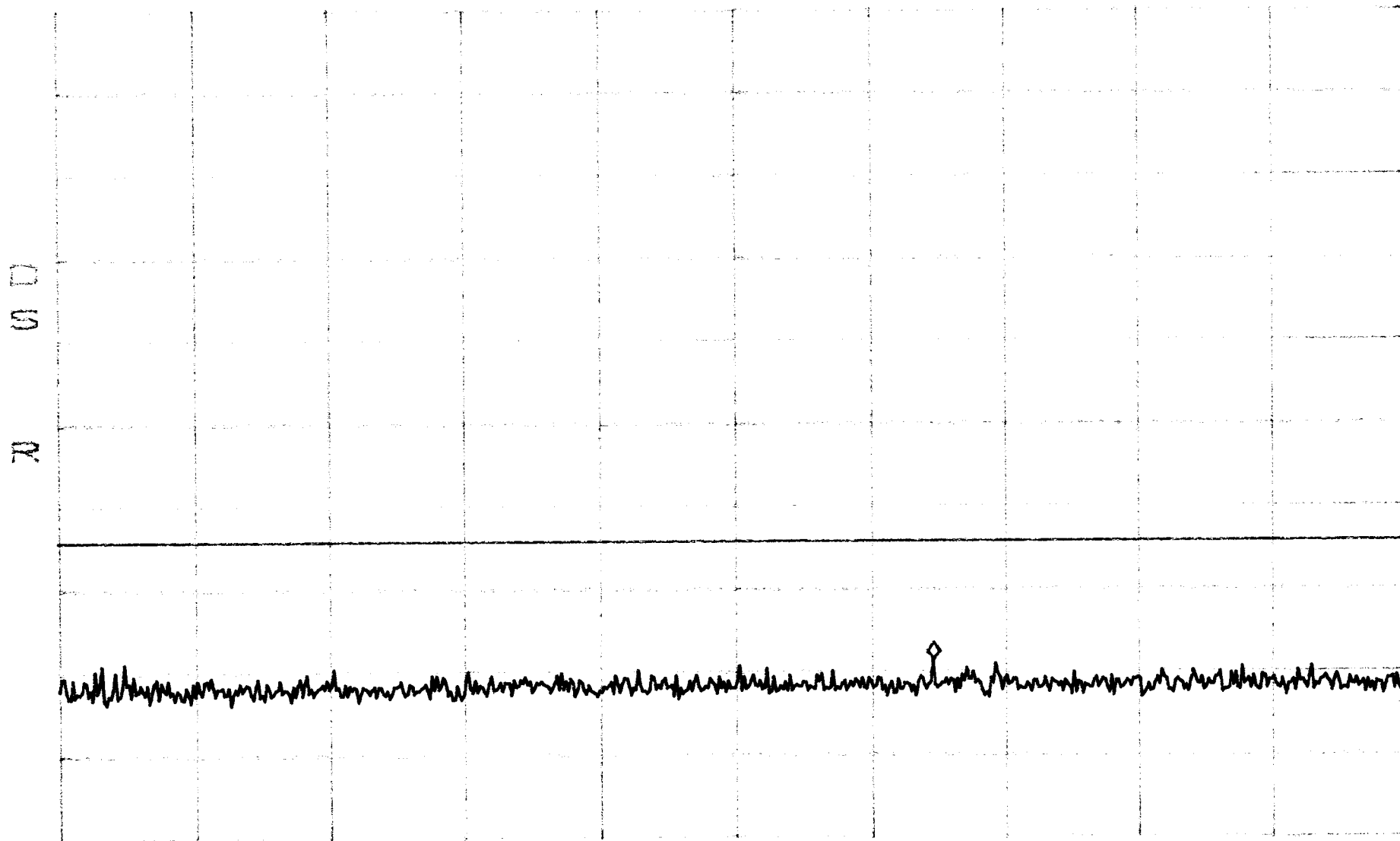
SPAN 50.00MHz  
SWP 140ms

Intermodulation BAND B,E,F  
Apart  
TDMA

\*ATTEN 20dB  
BPO2 15.3dBm  
RL 51.3dBm

10dB/

MKR -27.20dBm  
657.3MHz



START 30.0MHz  
\*RBW 30kHz

VBW 30kHz

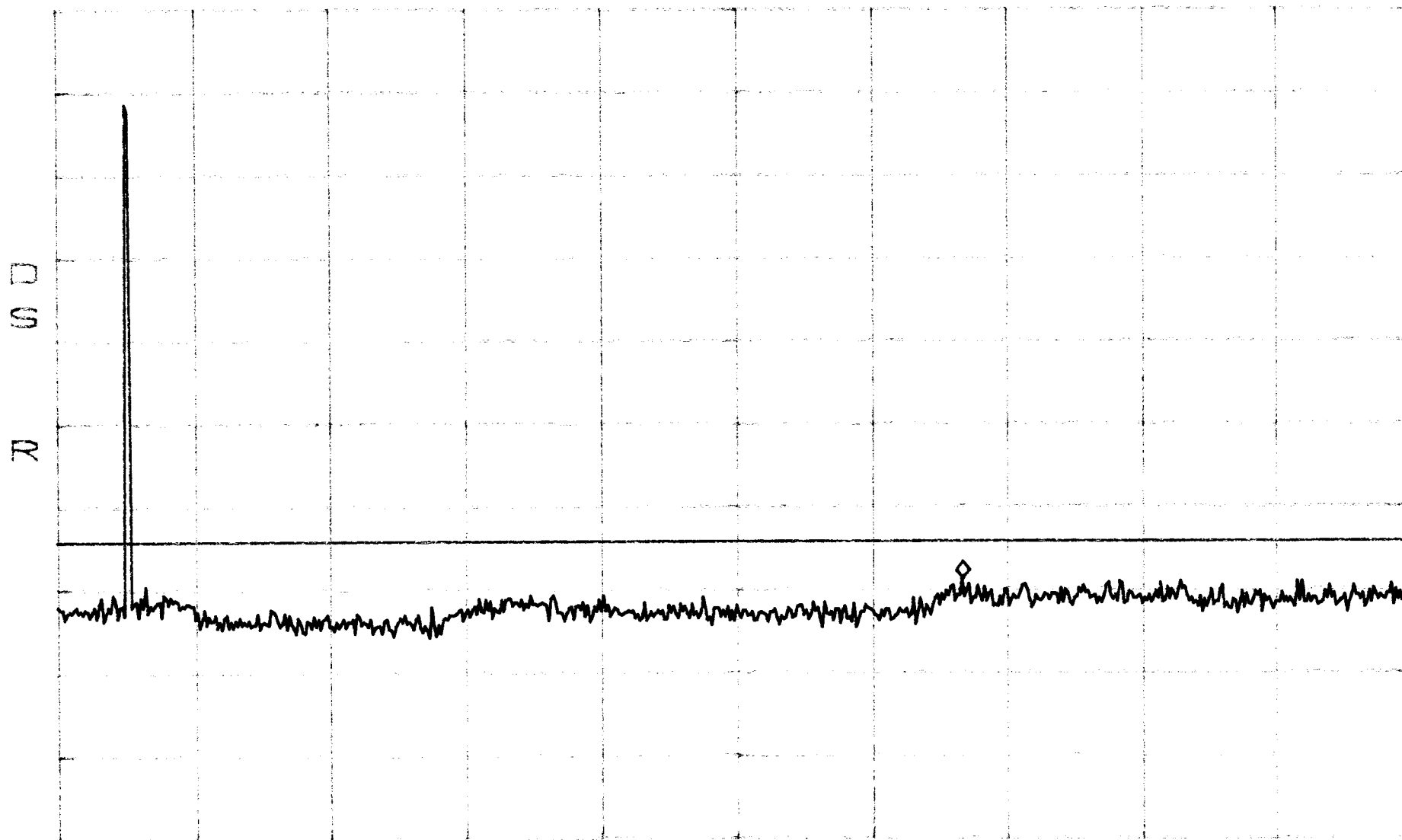
STOP 1.0000GHz

SWP 2.7sec

Intermodulation BAND B,E,F  
Apart  
TDMA

\*ATTEN 30dB  
RL 51.3dBm

MKR -17.37dBm  
13.67GHz



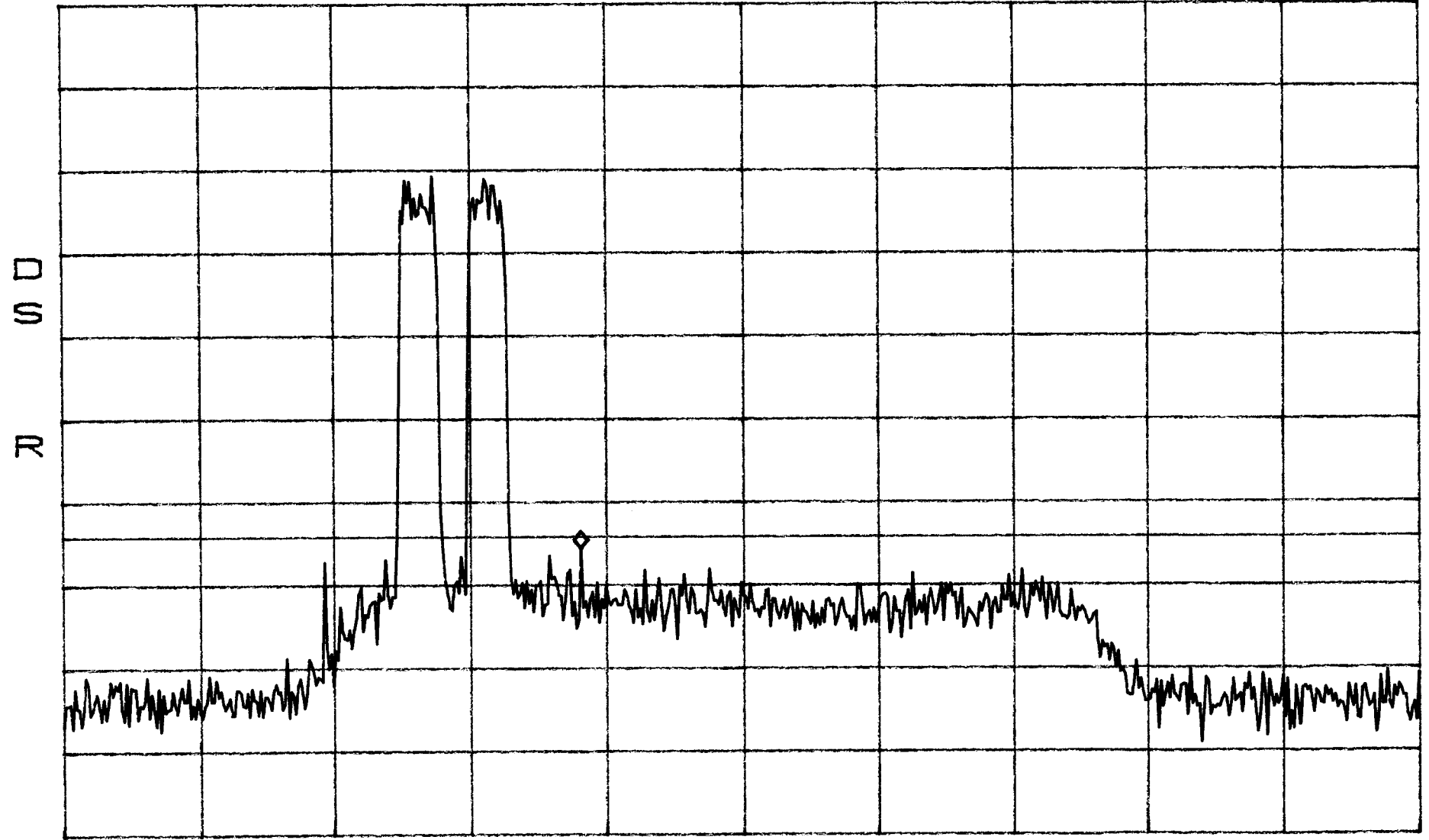
START 1.00GHz STOP 20.00GHz  
\*RBW 300kHz VBW 300kHz SWP 530ms

Intermodulation BAND B,E,F  
Close  
CDMA

\*ATTEN 30dB  
RL 51.3dBm

MKR -14.20dBm  
1.95658GHz

10dB/



CENTER 1.96250GHz SPAN 50.00MHz  
\*RBW 30kHz VBW 30kHz SWP 140ms

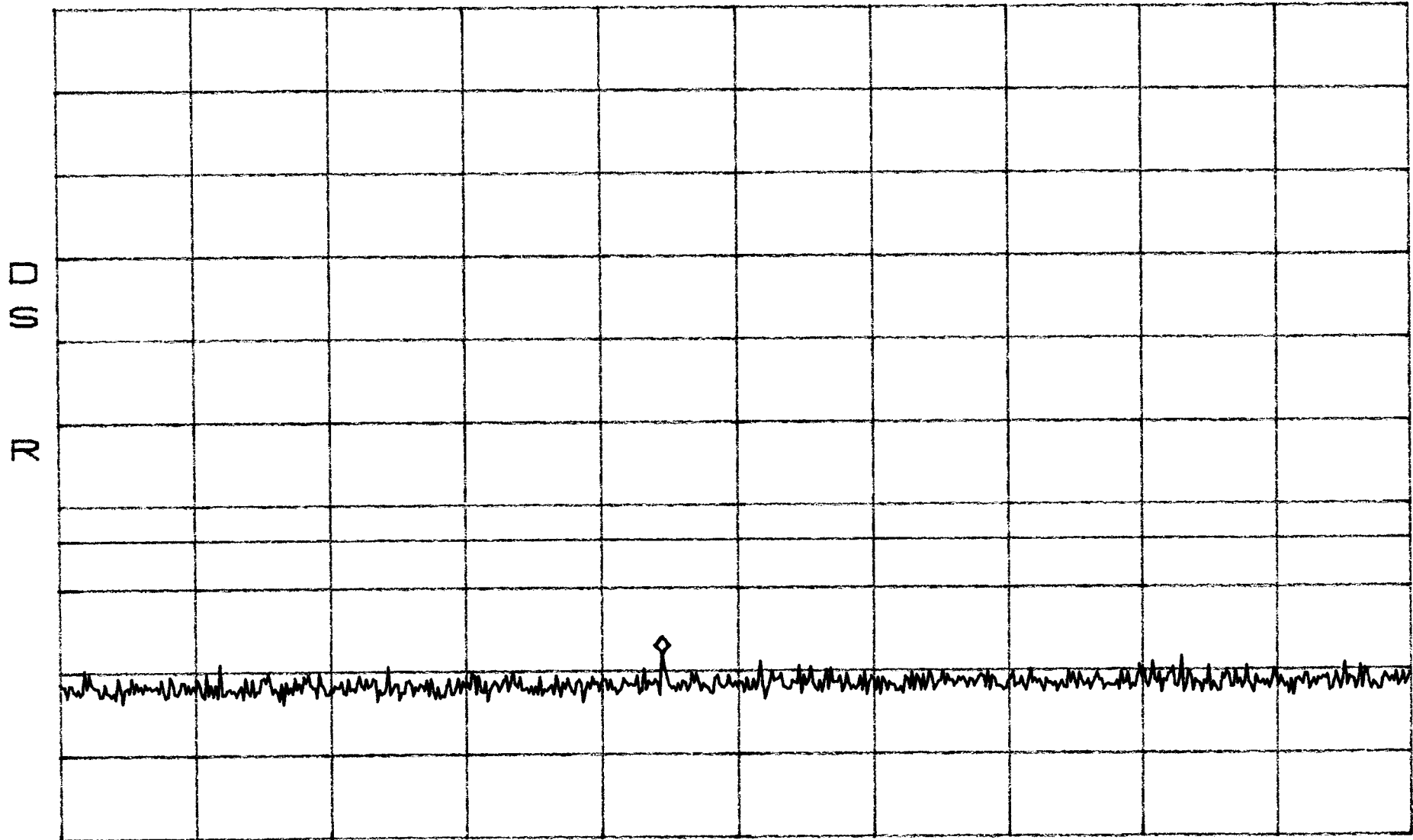
Intermodulation  
Close  
CDMA

BAND B, E, F

\*ATTEN 30dB  
RL 51.3dBm

10dB/

MKR -26.53dBm  
461.7MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 30kHz

VBW 30kHz

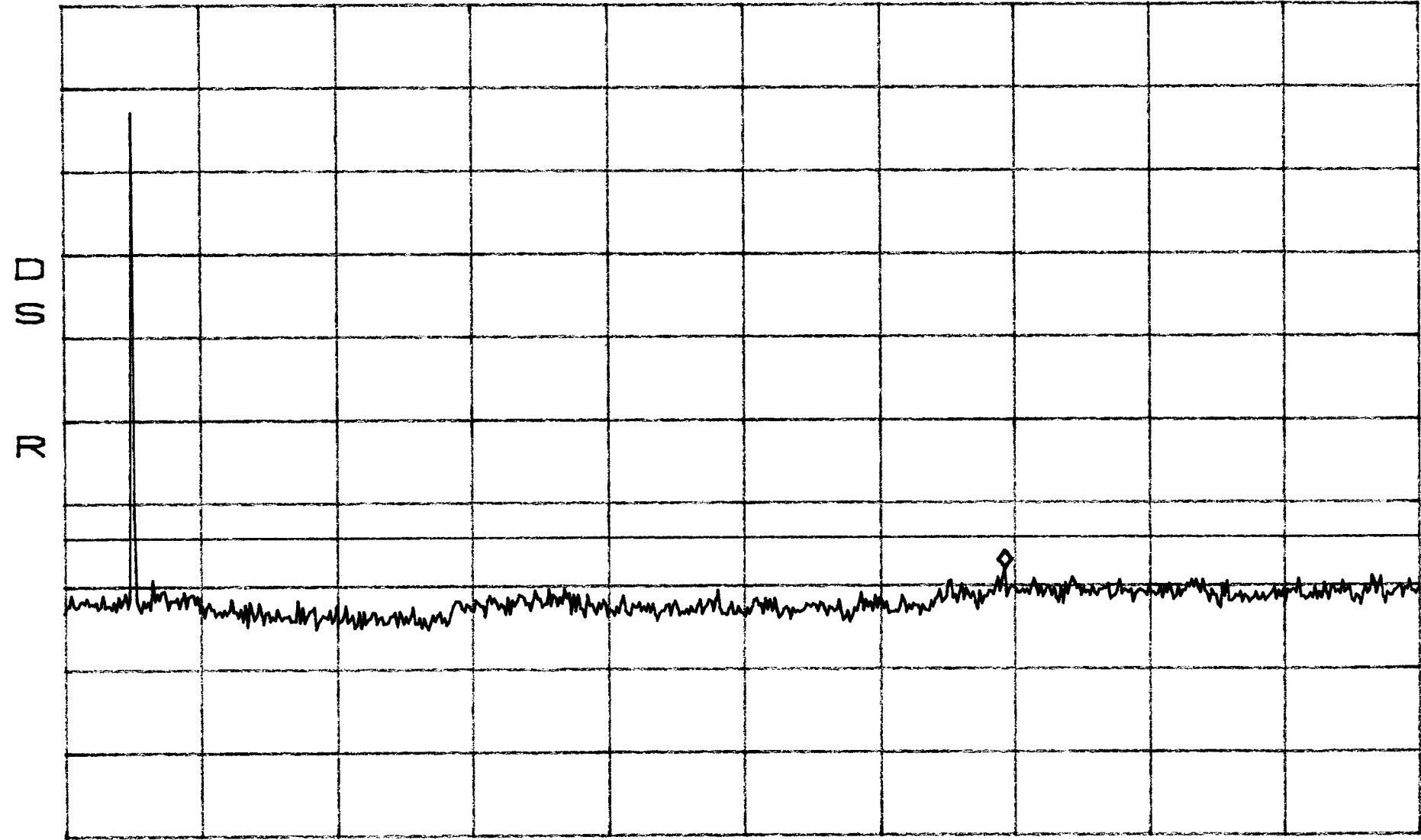
SWP 2.7sec

Intermodulation BAND B,E,F  
Close  
CDMA

\*ATTEN 30dB  
RL 51.3dBm

MKR -16.53dBm  
14.17GHz

10dB/



START 1.00GHz

STOP 20.00GHz

\*RBW 300kHz

VBW 300kHz

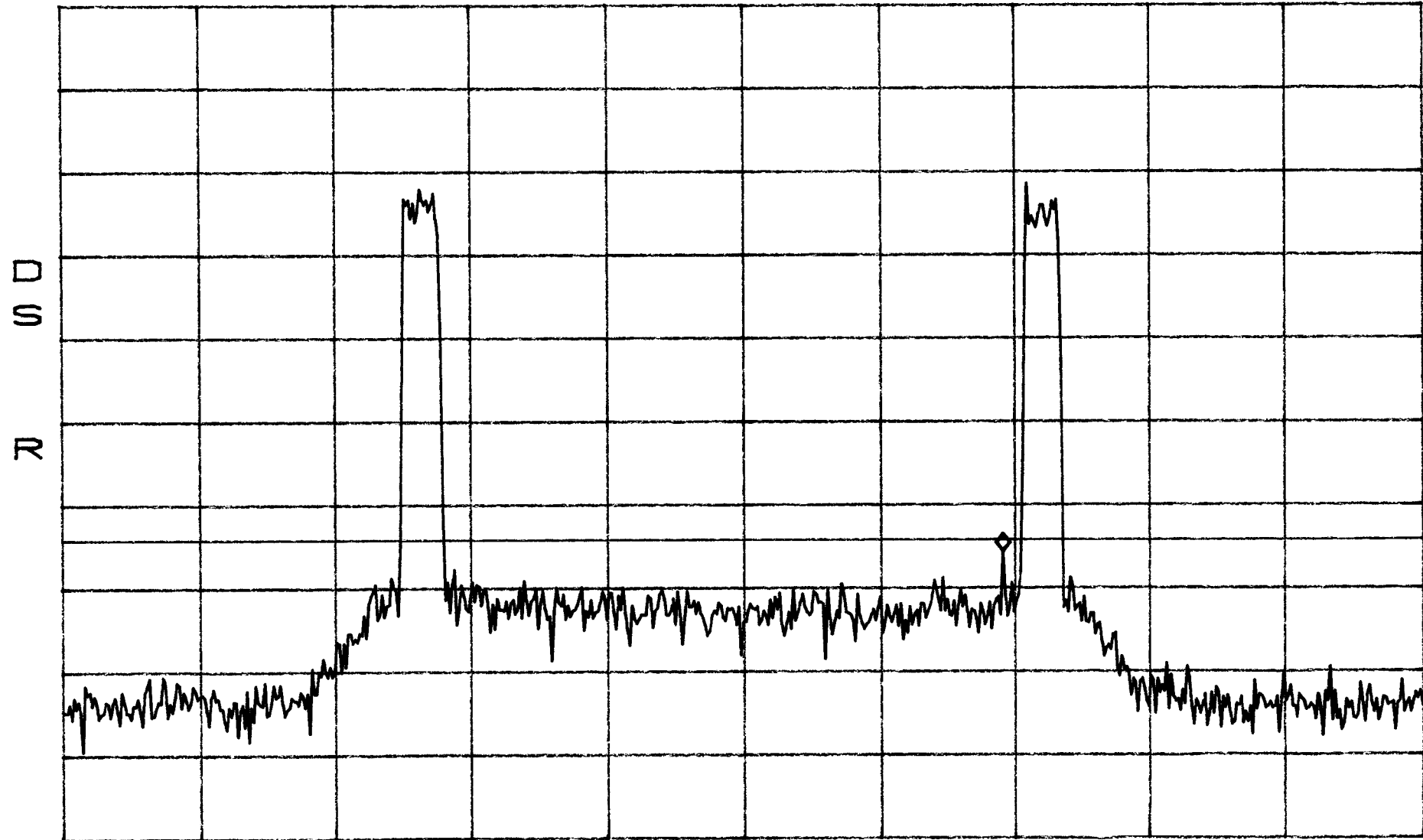
SWP 530ms

Intermodulation BAND B,E,F  
Apart  
CDMA

\*ATTEN 30dB  
RL 51.3dBm

MKR -14.20dBm  
1.97208GHz

10dB/



CENTER 1.96250GHz  
\*RBW 30kHz VBW 30kHz

SPAN 50.00MHz  
SWP 140ms

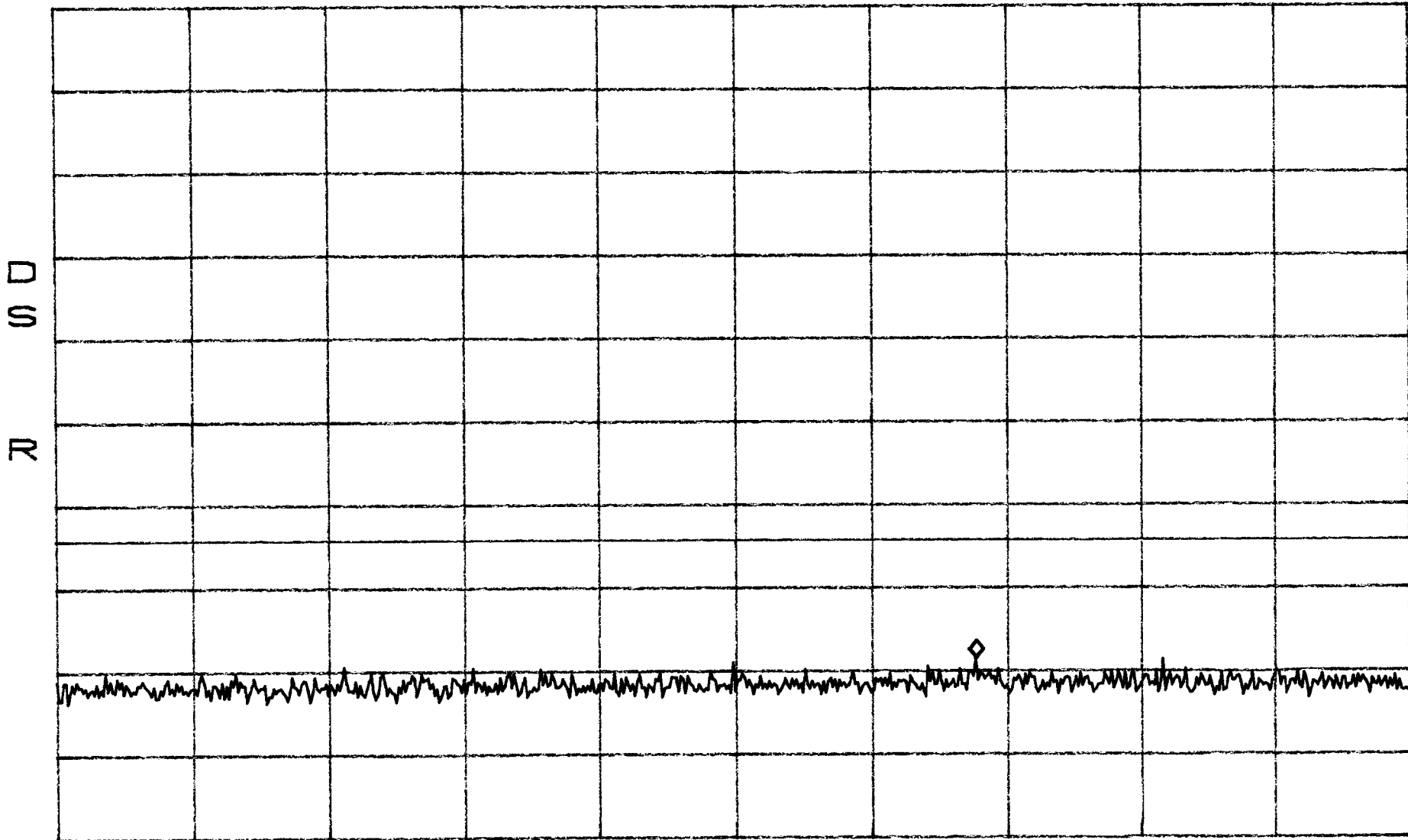


Intermodulation BAND B,E,F  
Apart  
CDMA

\*ATTEN 30dB  
RL 51.3dBm

10dB/

MKR -27.03dBm  
686.4MHz



START 30.0MHz  
\*RBW 30kHz

VBW 30kHz

STOP 1.0000GHz

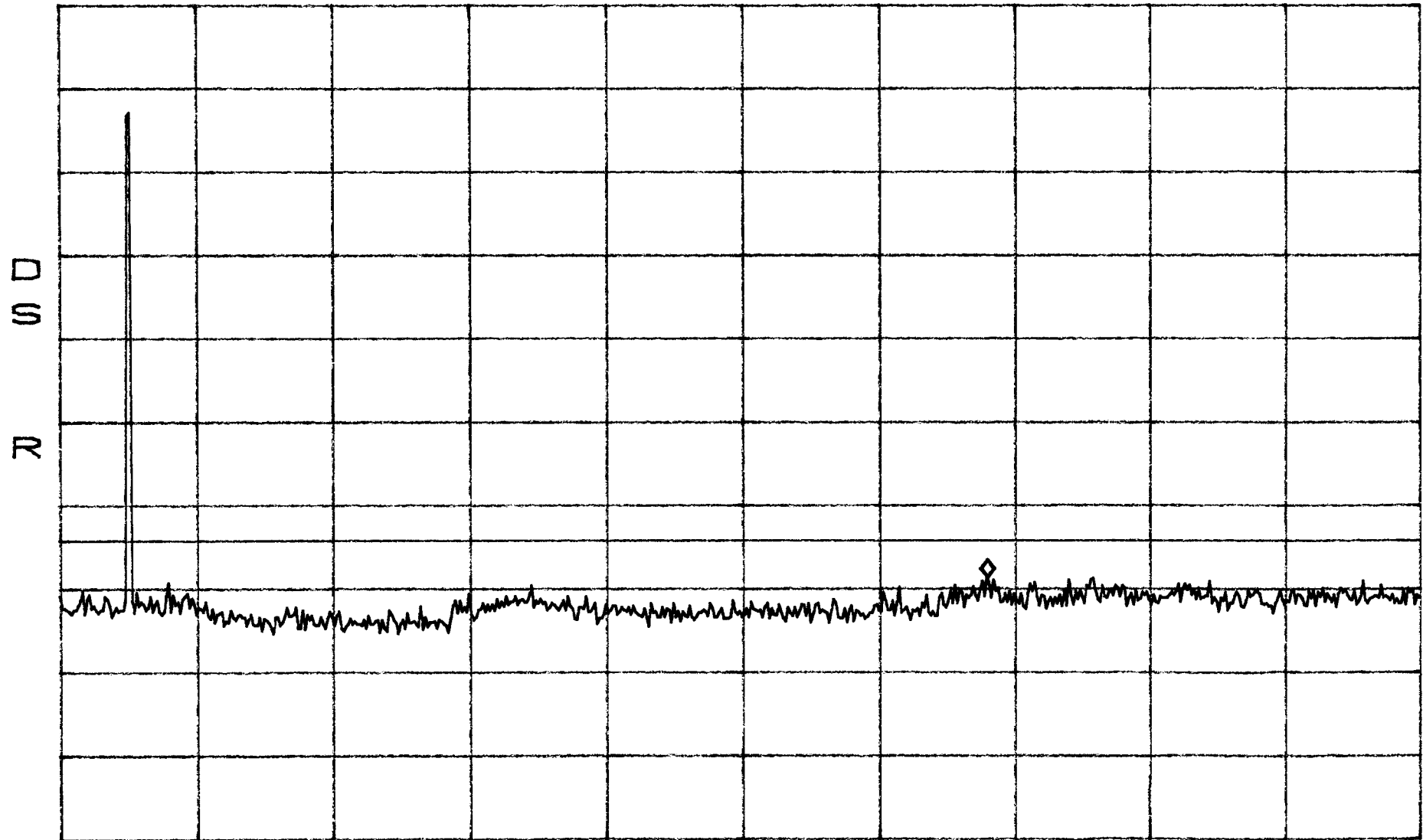
SWP 2.7sec

Intermodulation BAND B,E,F  
Apart  
CDMA

\*ATTEN 30dB  
RL 51.3dBm

MKR -17.20dBm  
13.92GHz

10dB/



START 1.00GHz STOP 20.00GHz  
\*RBW 300kHz VBW 300kHz SWP 530ms

Intermodulation

BAND E,F,C

Close

FM

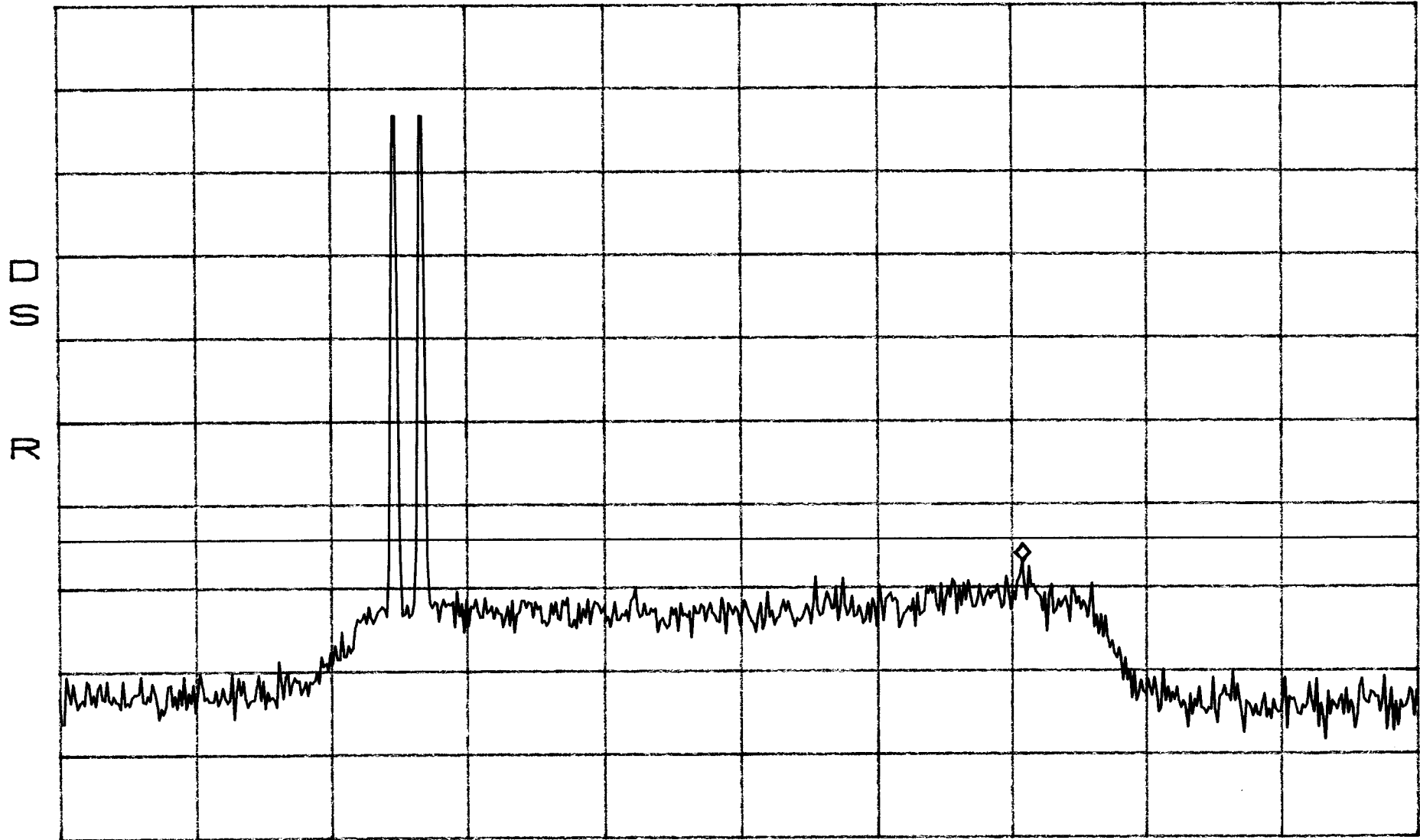
\*ATTEN 30dB

MKR -15.53dBm

RL 51.3dBm

10dB/

1.98792GHz



CENTER 1.97750GHz

SPAN 50.00MHz

\*RBW 30kHz

VBW 30kHz

SWP 140ms

Intermodulation

BAND E,F,C

Close

FM

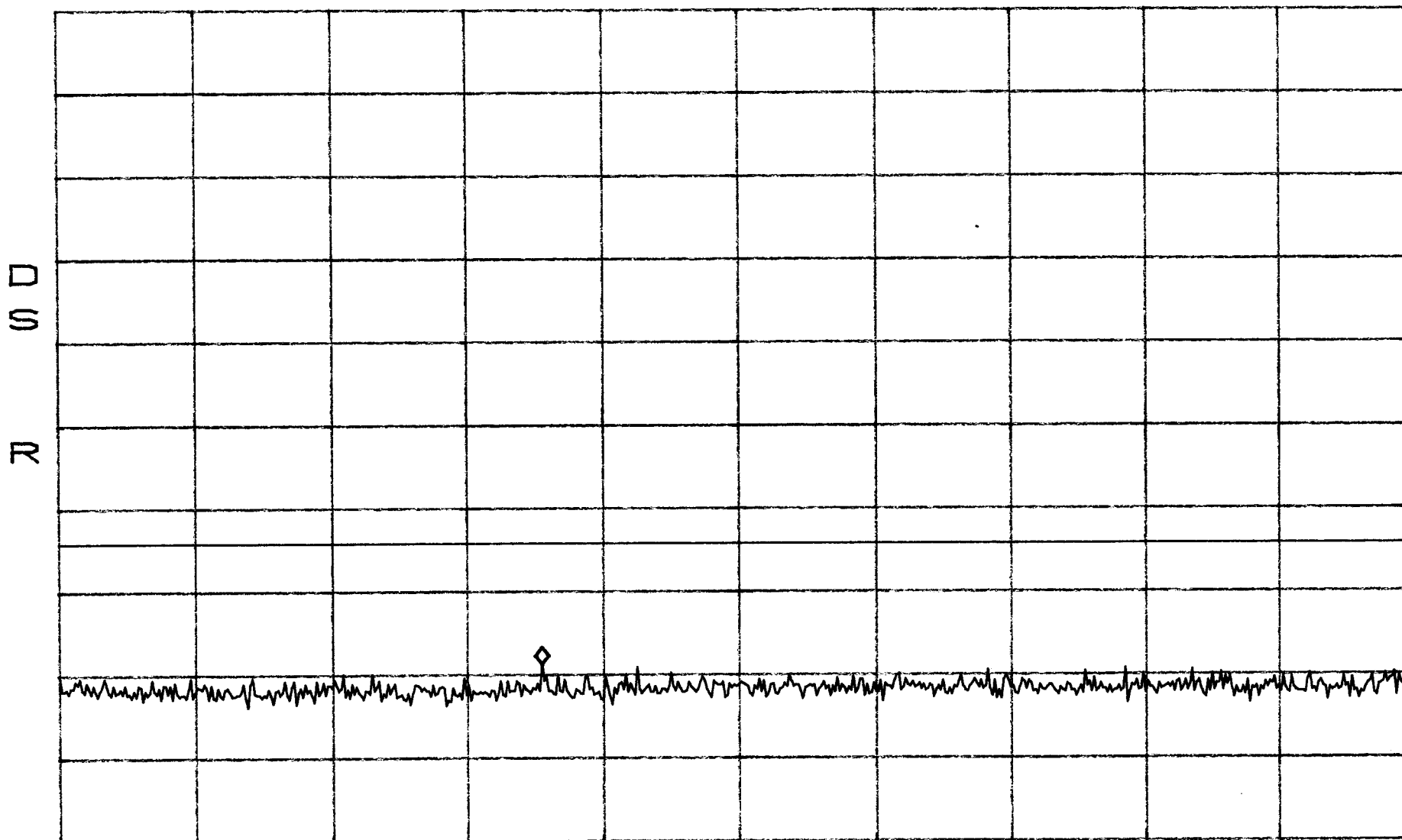
\*ATTEN 30dB

MKR -27.37dBm

RL 51.3dBm

10dB/

374.4MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 30kHz

VBW 30kHz

SWP 2.7sec

Intermodulation

BAND E, F, C

Close

FM

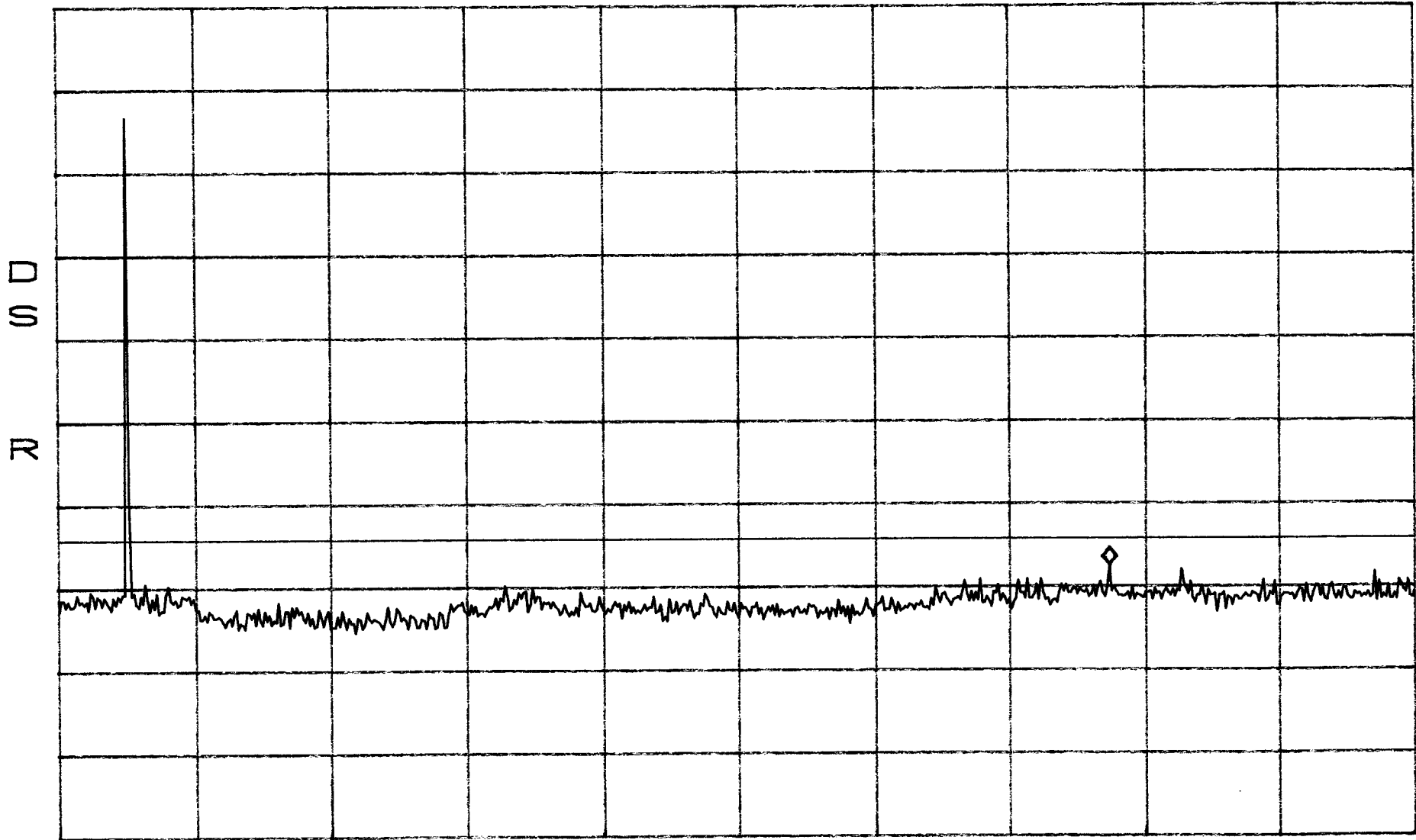
\*ATTEN 30dB

MKR -16.03dBm

RL 51.3dBm

10dB/

15.99GHz



START 1.00GHz

STOP 20.00GHz

\*RBW 300kHz

VBW 300kHz

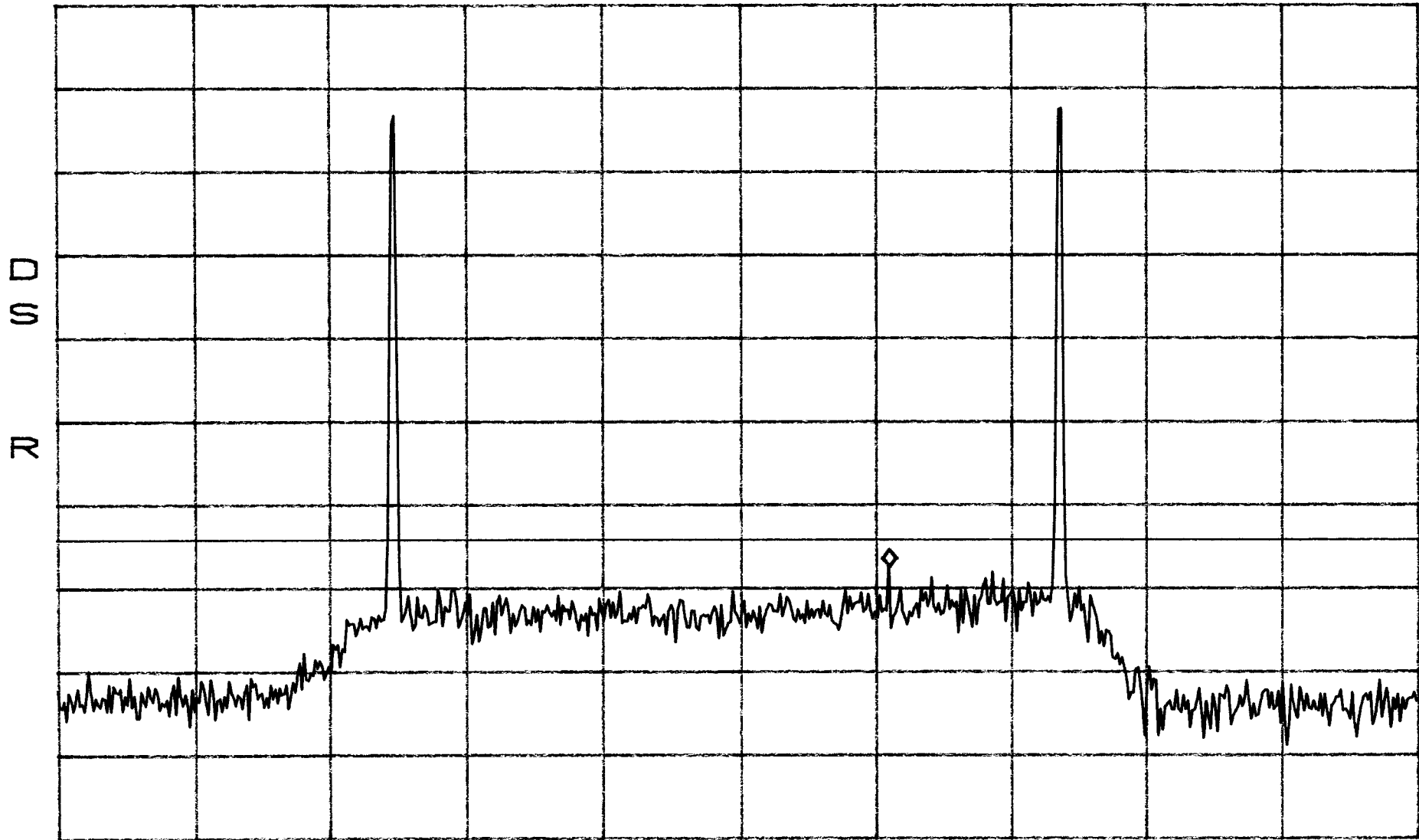
SWP 530ms

+overmodulation BAND E, F, C  
Apart  
FM

\*ATTEN 30dB  
RL 51.3dBm

10dB/

MKR -16.03dBm  
1.98300GHz



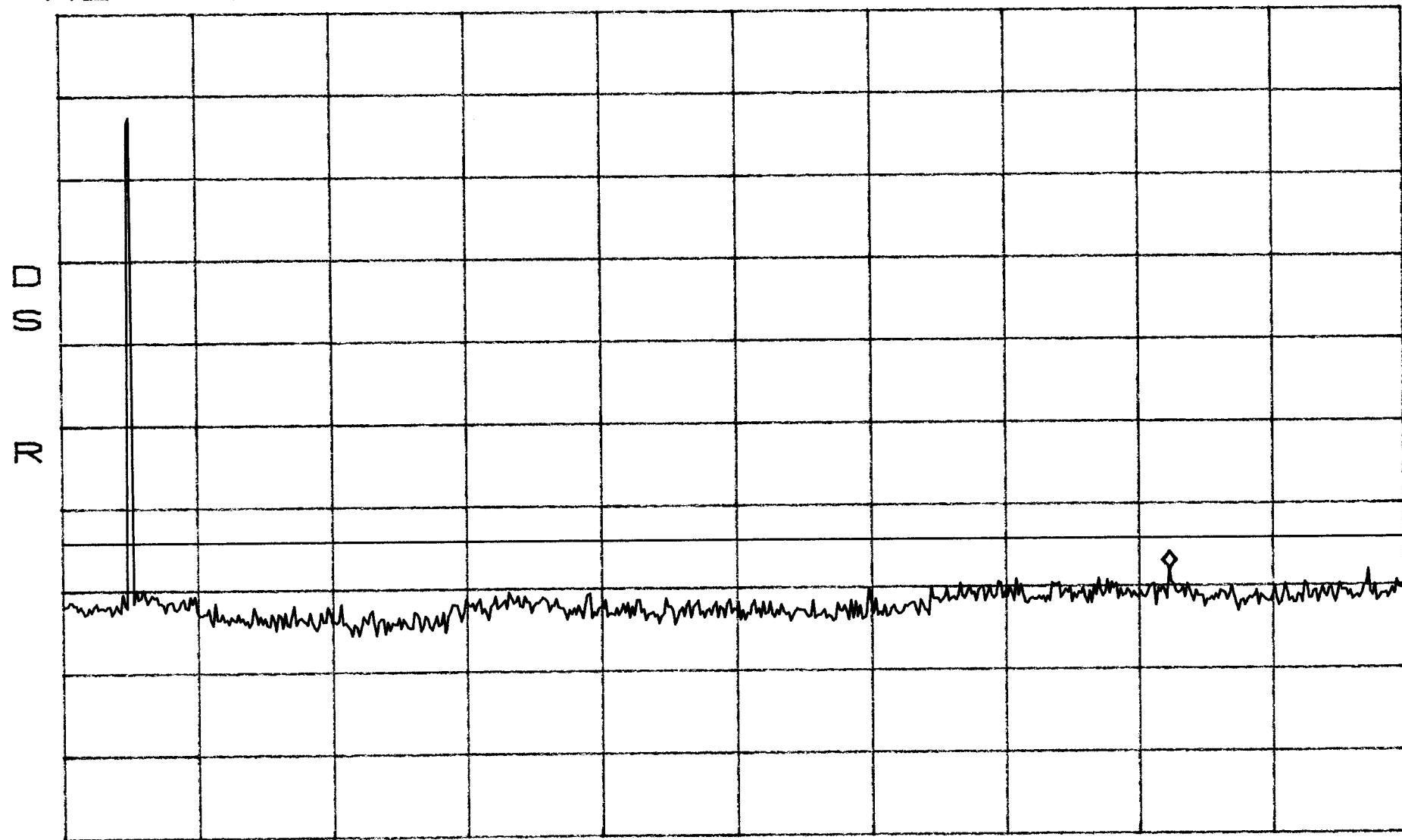
CENTER 1.97750GHz SPAN 50.00MHz  
\*RBW 30kHz VBW 30kHz SWP 140ms

Intermodulation BAND E, F, C  
Apart  
FM

\*ATTEN 30dB  
RL 51.3dBm

MKR -16.53dBm  
16.64GHz

10dB/



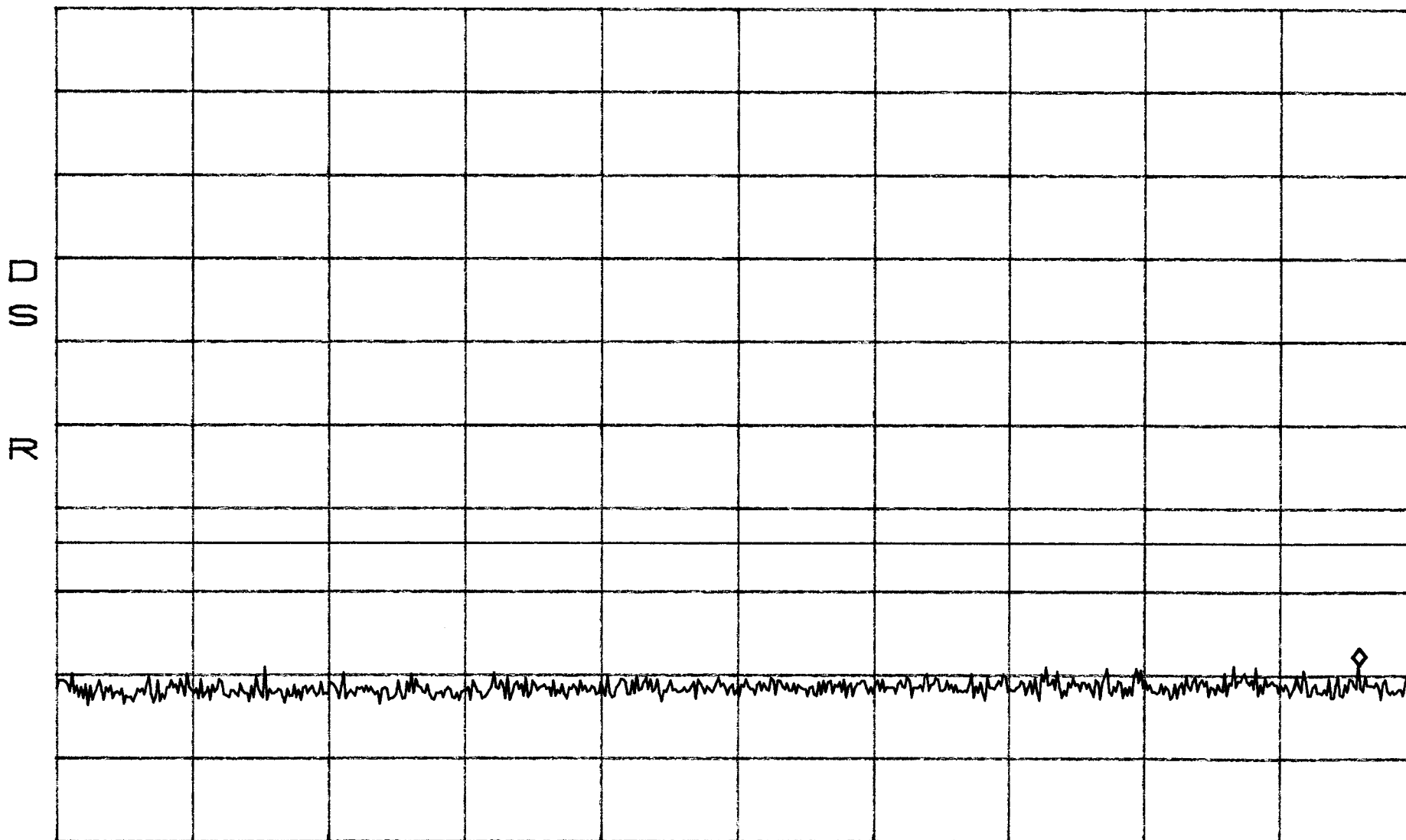
START 1.00GHz STOP 20.00GHz  
\*RBW 300kHz VBW 300kHz SWP 530ms

+rre modulation BAND E, F, C  
Apart  
FM

\*ATTEN 30dB  
RL 51.3dBm

10dB/

MKR -27.37dBm  
959.6MHz



START 30.0MHz STOP 1.0000GHz  
\*RBW 30kHz VBW 30kHz SWP 2.7sec



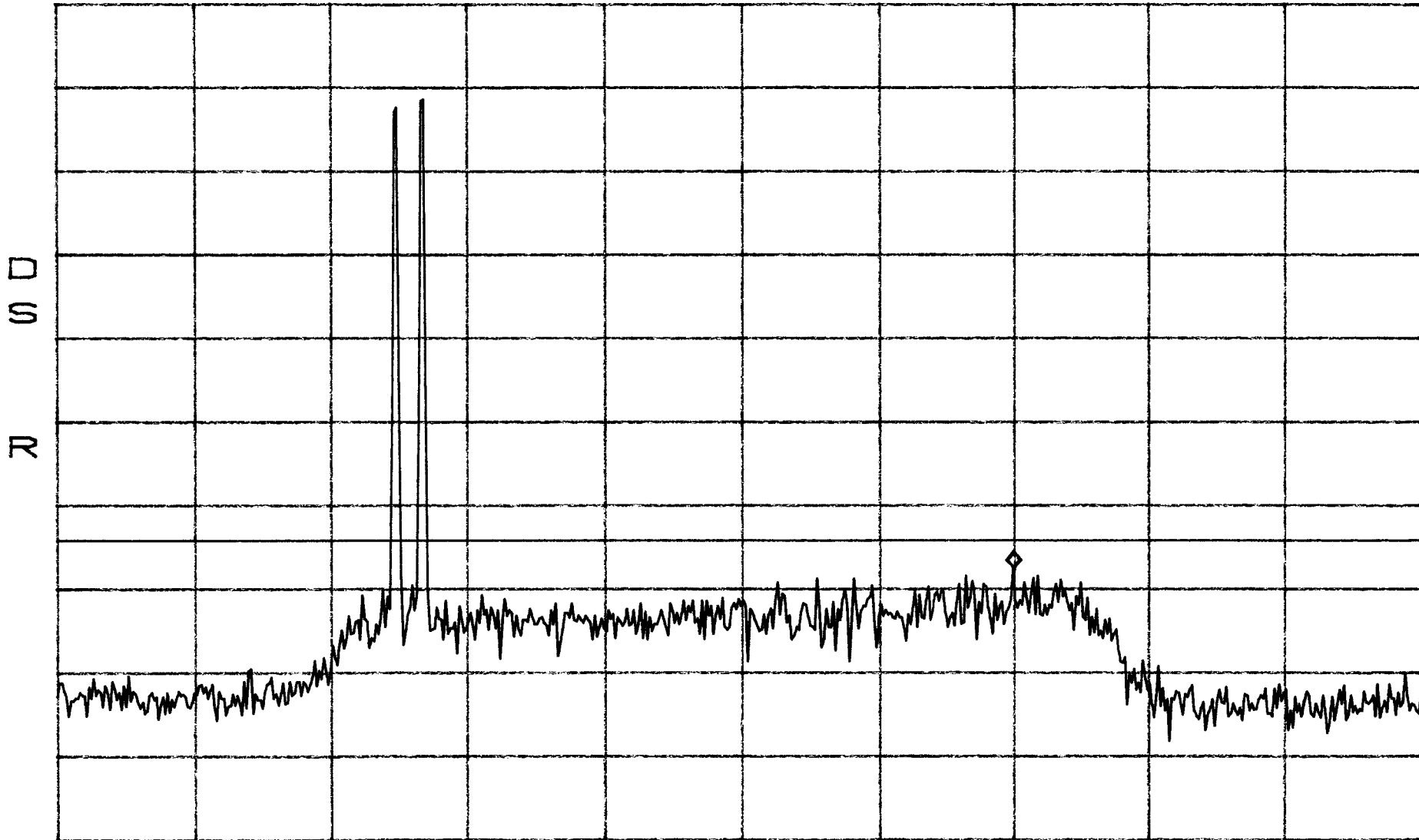
Intermodulation  
Close  
TDMA

BAND E,F,C

\*ATTEN 30dB  
RL 51.3dBm

10dB/

MKR -16.20dBm  
1.98750GHz



CENTER 1.97750GHz  
\*RBW 30kHz

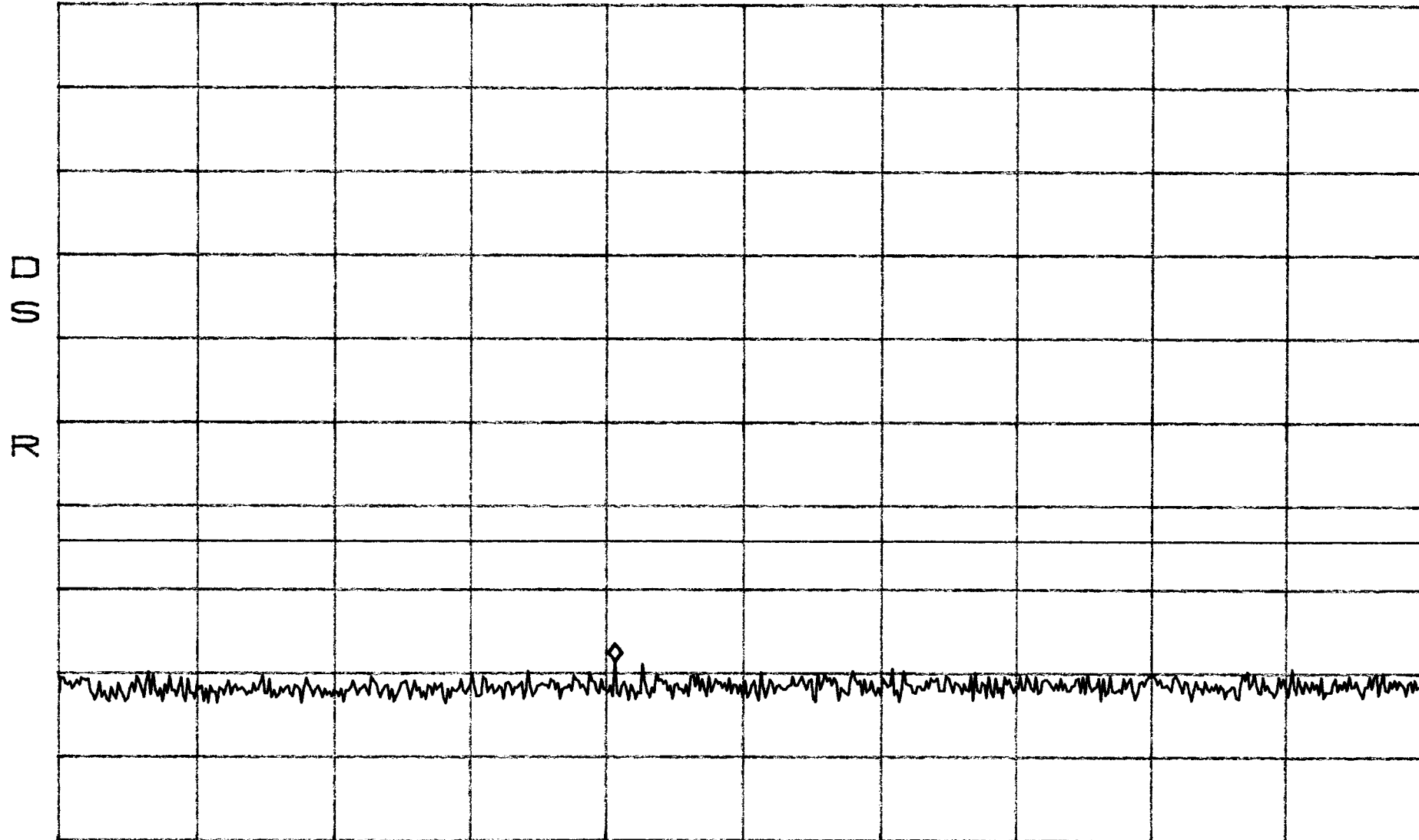
VBW 30kHz

SPAN 50.00MHz  
SWP 140ms

Intermodulation BAND E,F,C  
Close  
TDMA

\*ATTEN 30dB  
RL 51.3dBm

MKR -27.20dBm  
424.5MHz

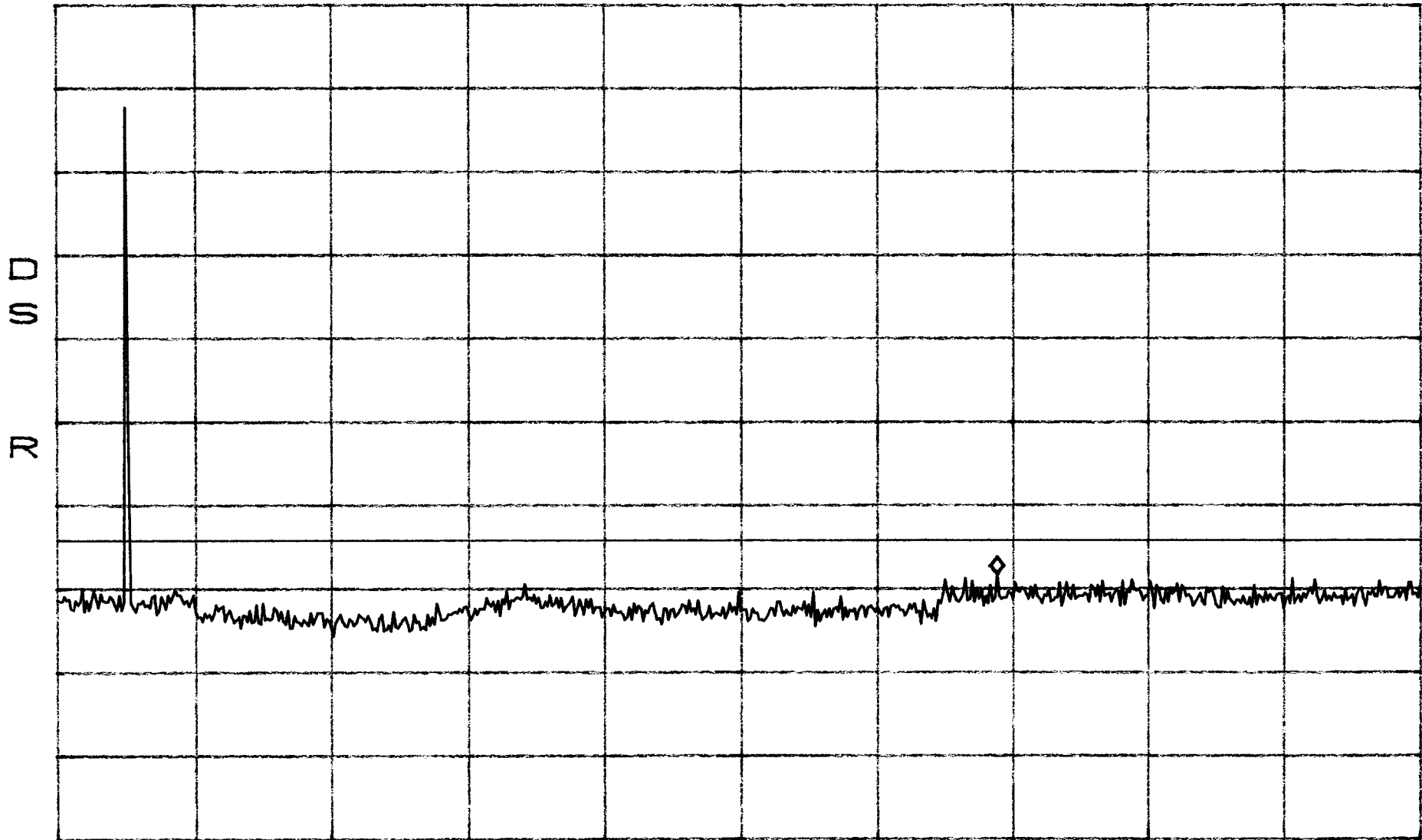


START 30.0MHz STOP 1.0000GHz  
\*RBW 30kHz VBW 30kHz SWP 2.7sec

Intermodulation BAND E, F, L  
Close  
TDMA

\*ATTEN 30dB  
RL 51.3dBm

MKR -16.87dBm  
14.08GHz



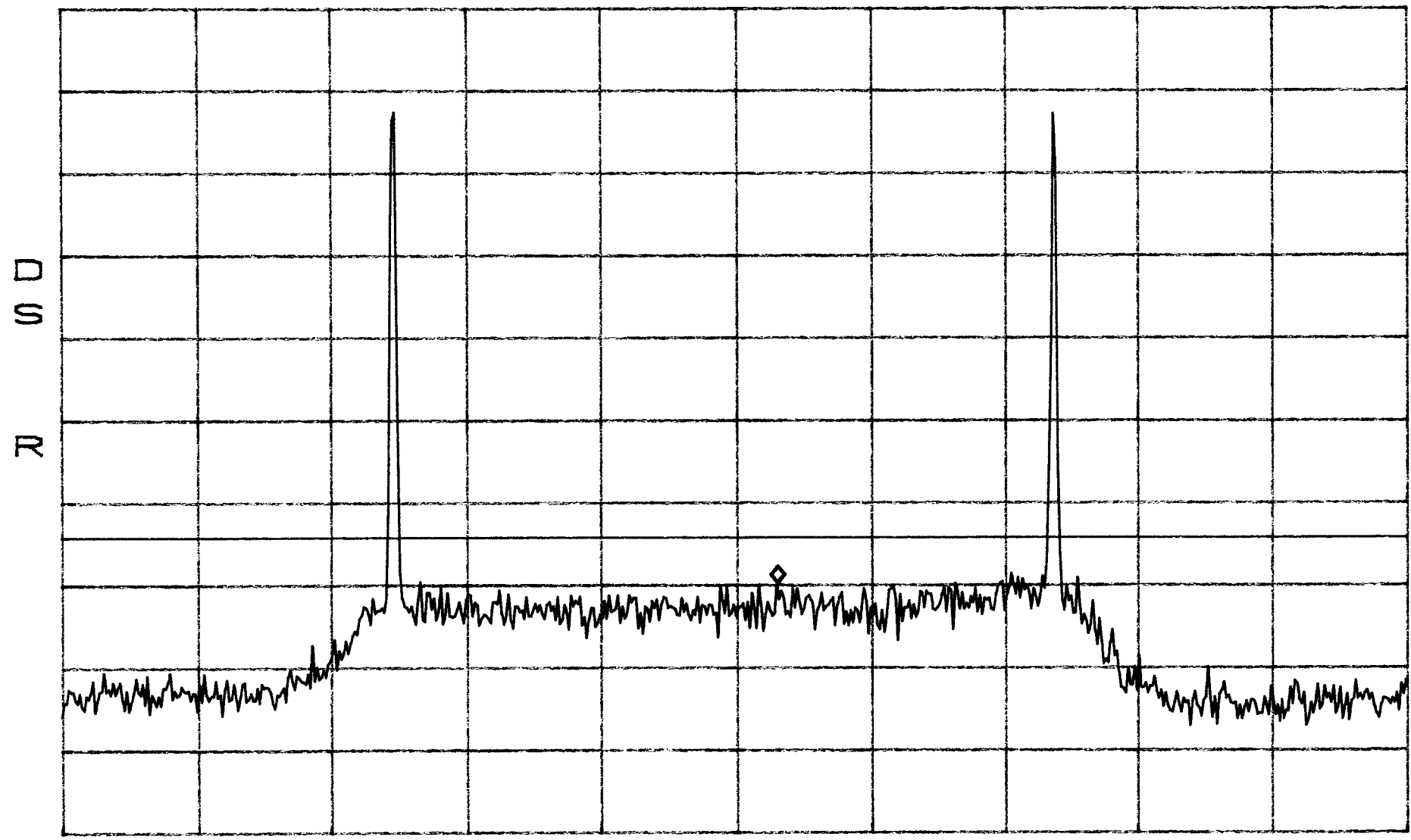
START 1.00GHz STOP 20.00GHz  
\*RBW 300kHz VBW 300kHz SWP 530ms

Intermodulation BAND E, F, C  
Apart  
TDMA

\*ATTEN 30dB  
RL 51.3dBm

MKR -18.37dBm  
1.979069GHz

10dB/



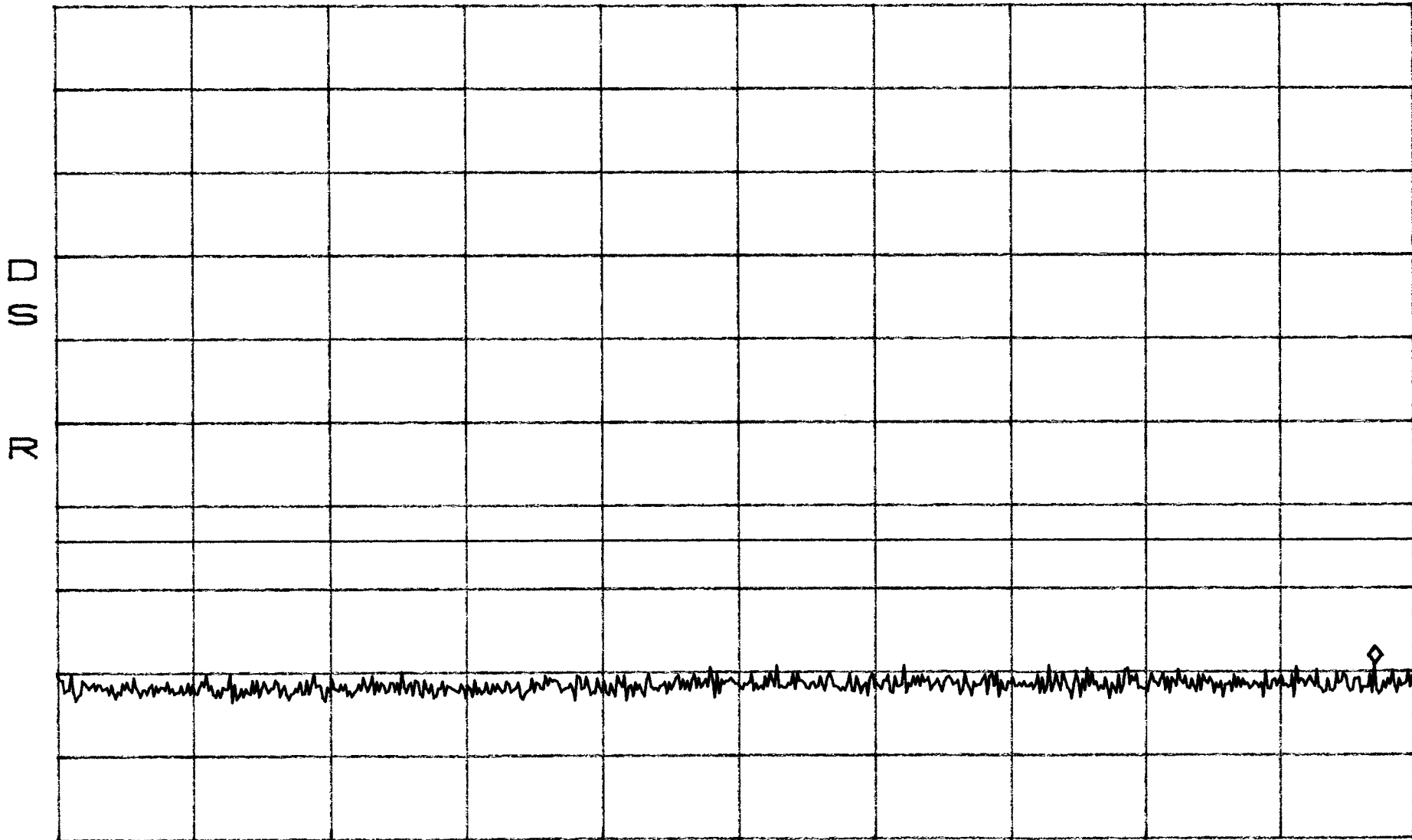
CENTER 1.97750GHz SPAN 50.00MHz  
\*RBW 30kHz VBW 30kHz SWP 140ms

Intermodulation BAND E,F,C  
Apart  
TDMA

\*ATTEN 30dB  
RL 51.3dBm

10dB/

MKR -27.70dBm  
972.5MHz



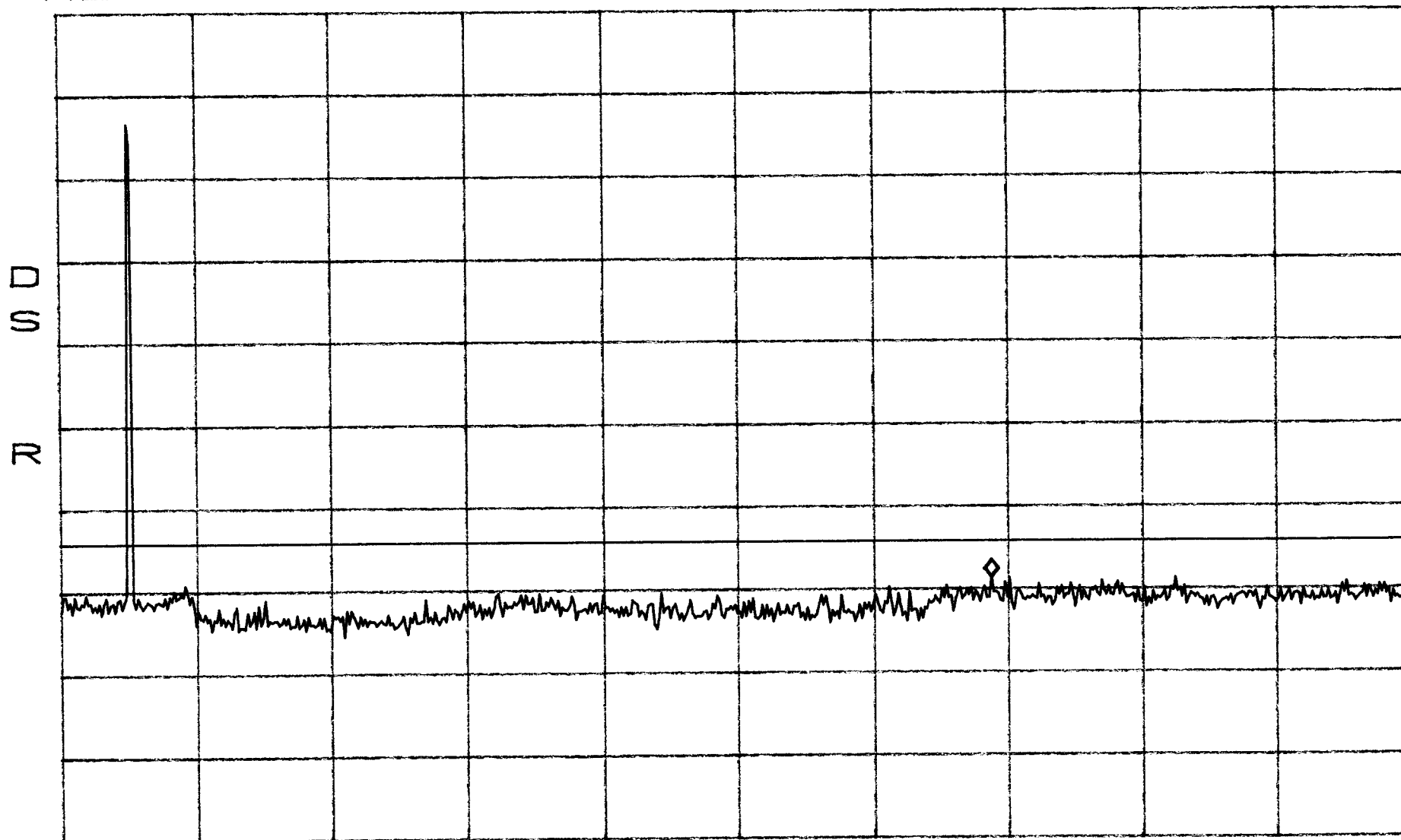
START 30.0MHz STOP 1.0000GHz  
\*RBW 30kHz VBW 30kHz SWP 2.7sec

Intermodulation BAND E,F,C  
Apart  
TDMA

\*ATTEN 30dB  
RL 51.3dBm

10dB/

MKR -17.20dBm  
14.080GHz



START 1.00GHz  
\*RBW 300kHz

VBW 300kHz

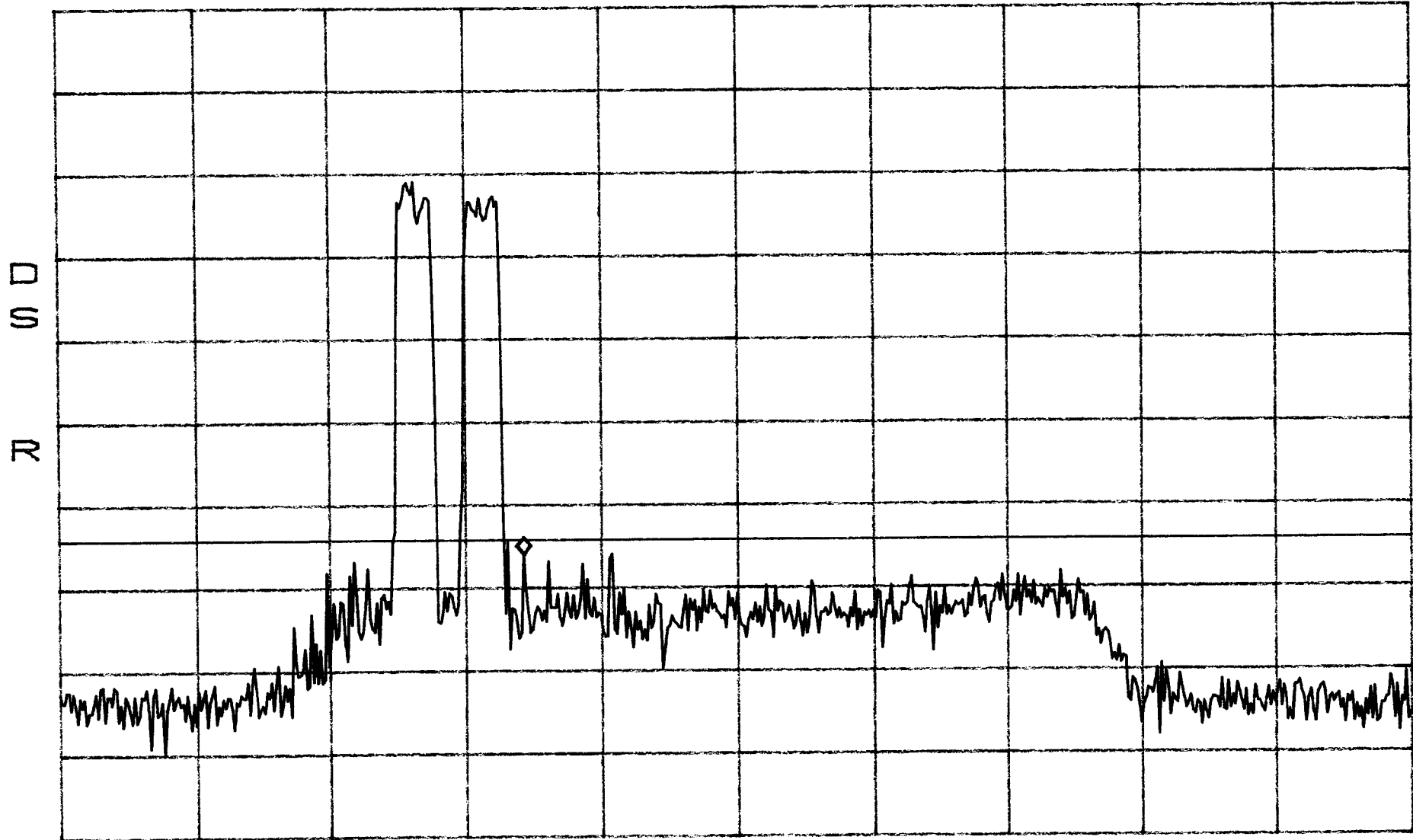
STOP 20.00GHz  
SWP 530ms

Intermodulation BAND E,F,C  
Close  
CDMA

\*ATTEN 30dB  
RL 51.3dBm

MKR -14.53dBm  
1.96967GHz

10dB/



CENTER 1.97750GHz  
\*RBW 30kHz VBW 30kHz

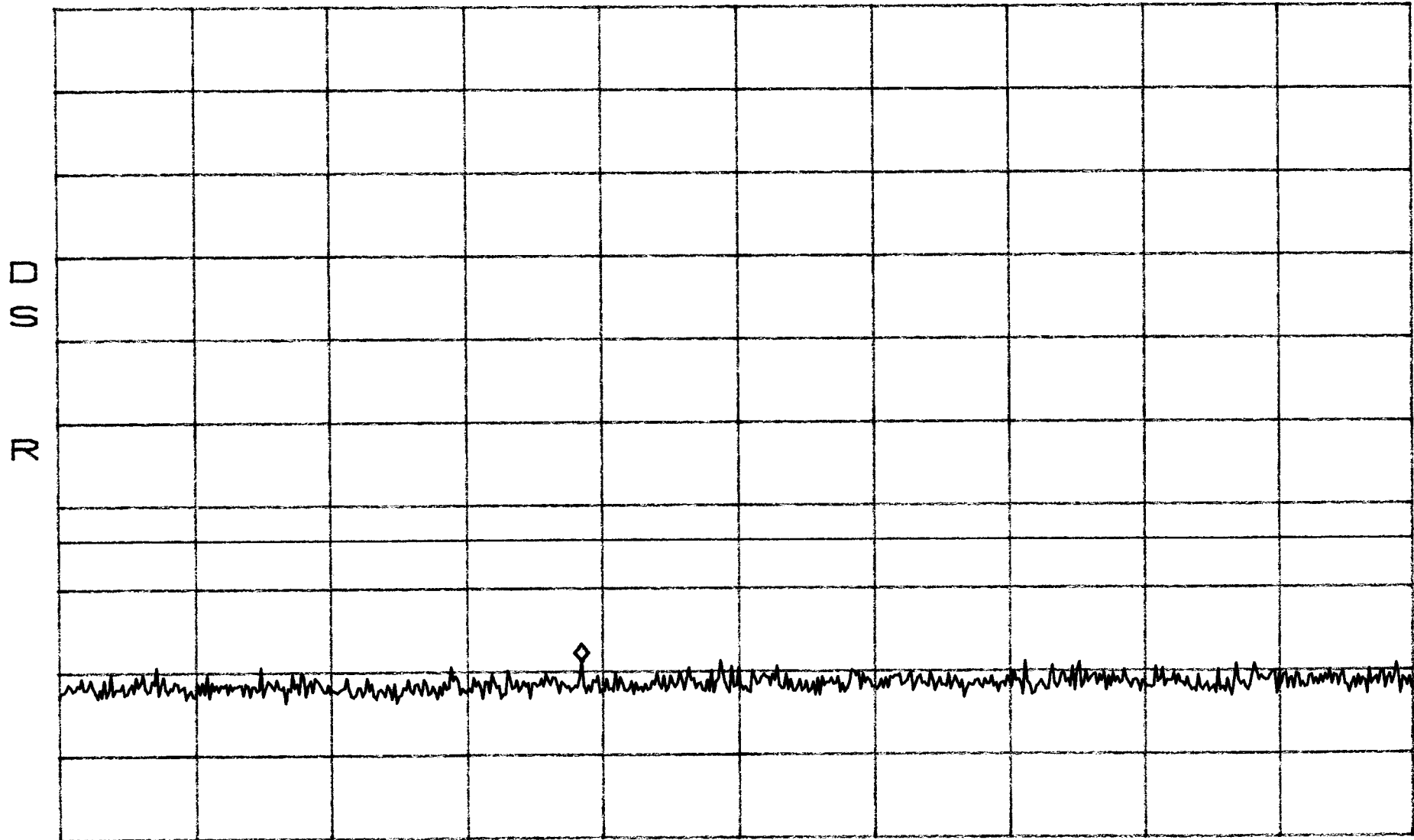
SPAN 50.00MHz  
SWP 140ms

Intermodulation BAND E, F, C  
Close  
CDMA

\*ATTEN 30dB  
RL 51.3dBm

10dB/

MKR -27.37dBm  
403.5MHz



START 30.0MHz  
\*RBW 30kHz

VBW 30kHz

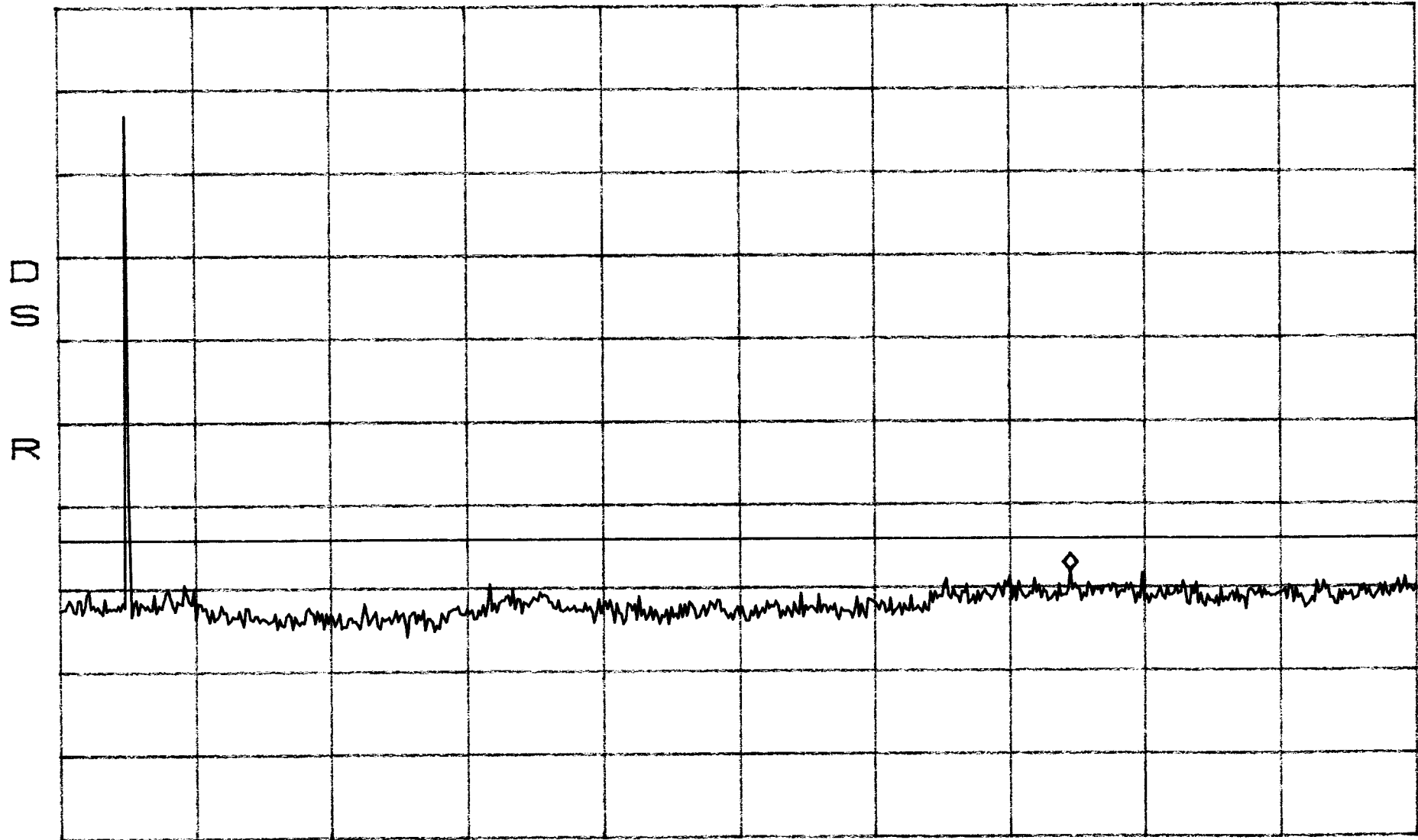
STOP 1.0000GHz  
SWP 2.7sec



Intermodulation BAND E,F,C  
Close  
CDMA

\*ATTEN 30dB  
RL 51.3dBm

MKR -16.70dBm  
15.16GHz



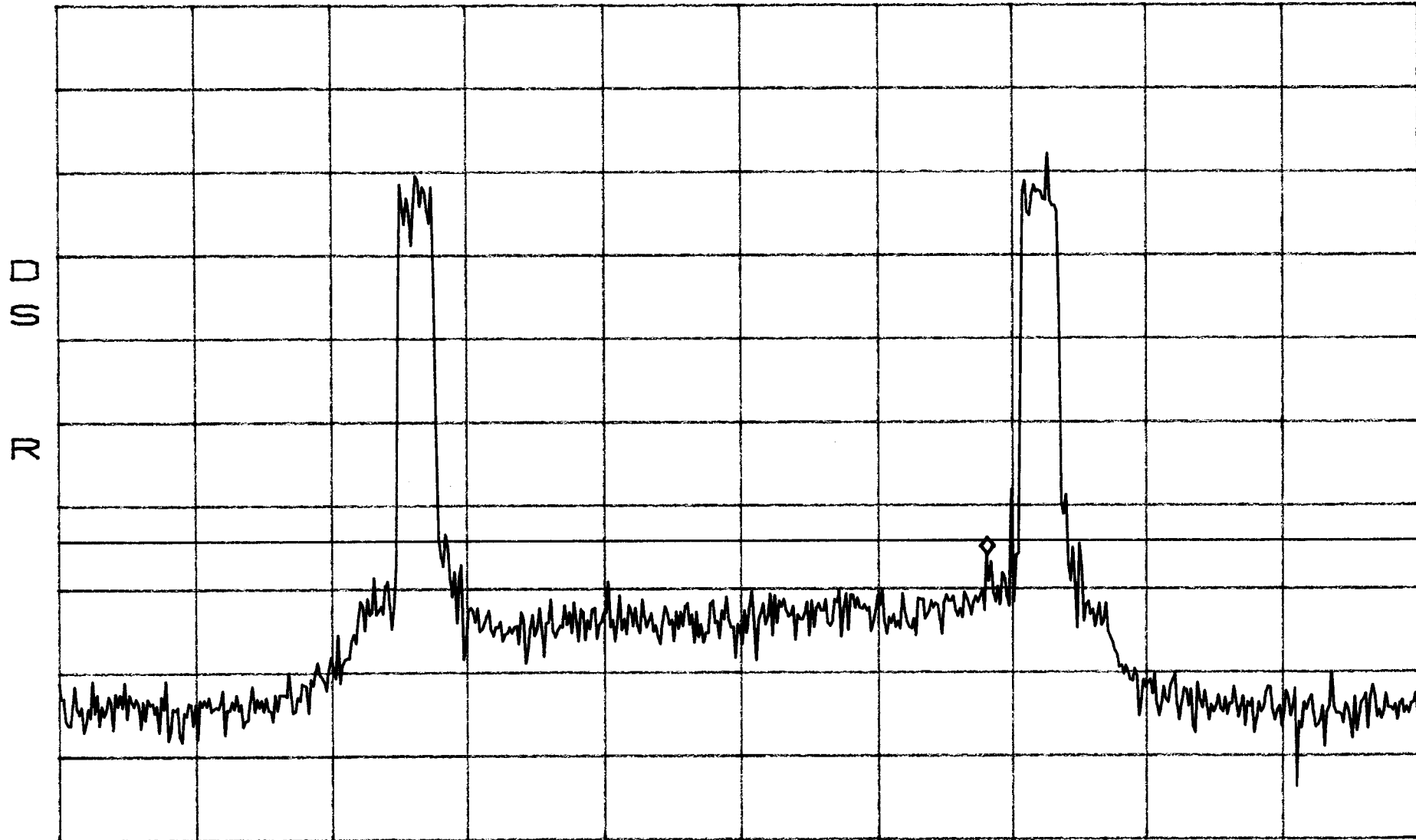
START 1.00GHz STOP 20.00GHz  
\*RBW 300kHz VBW 300kHz SWP 530ms

Intermodulation BAND E, F, C  
Apart  
CDMA

\*ATTEN 30dB  
RL 51.3dBm

MKR -14.53dBm  
1.98658GHz

10dB/BPO1



CENTER 1.97750GHz

SPAN 50.00MHz

\*RBW 30kHz

VBW 30kHz

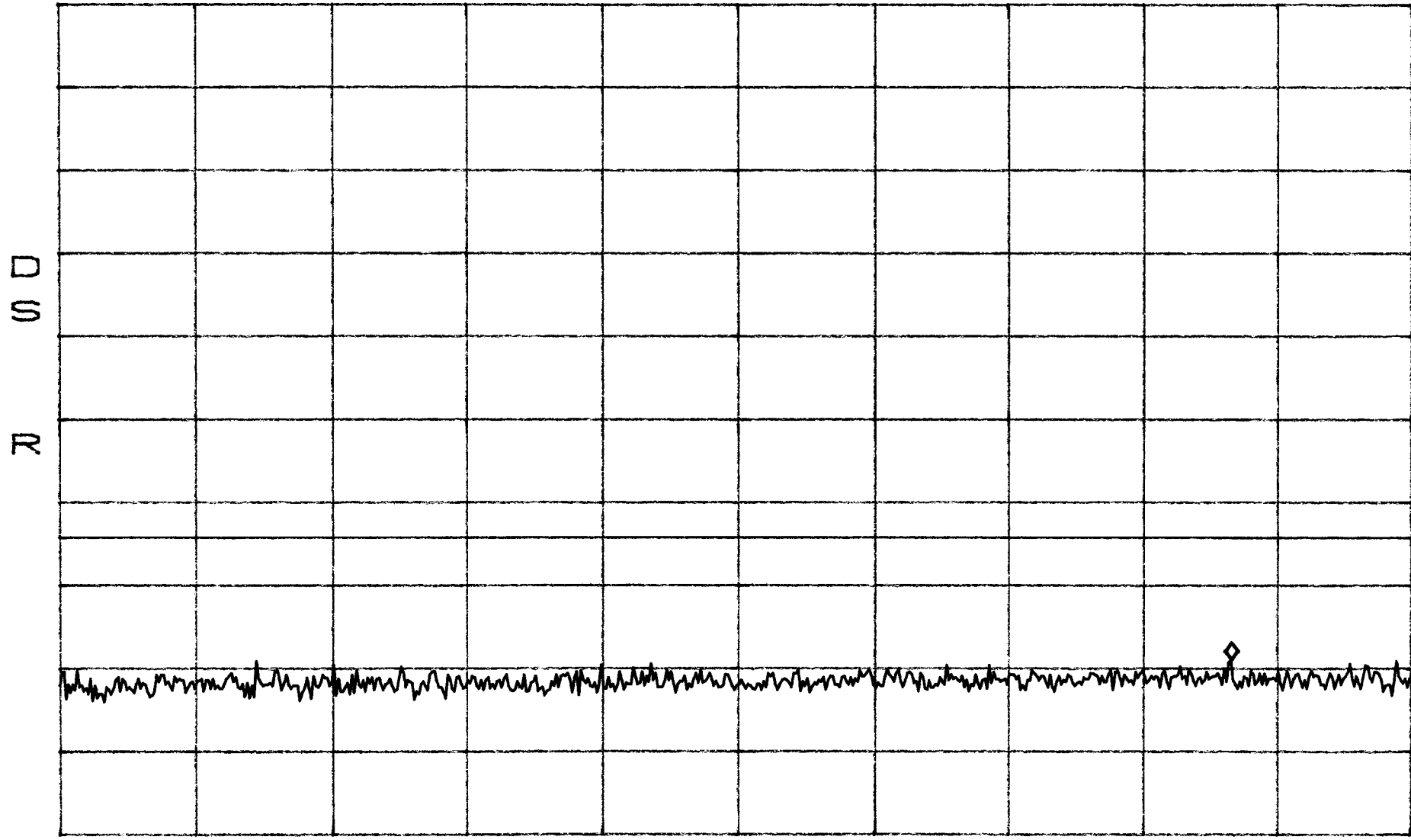
SWP 140ms

Intermodulation BAND E,F,c  
Apart  
CDMA

\*ATTEN 30dB  
RL 51.3dBm

MKR -27.53dBm  
870.7MHz

10dB/



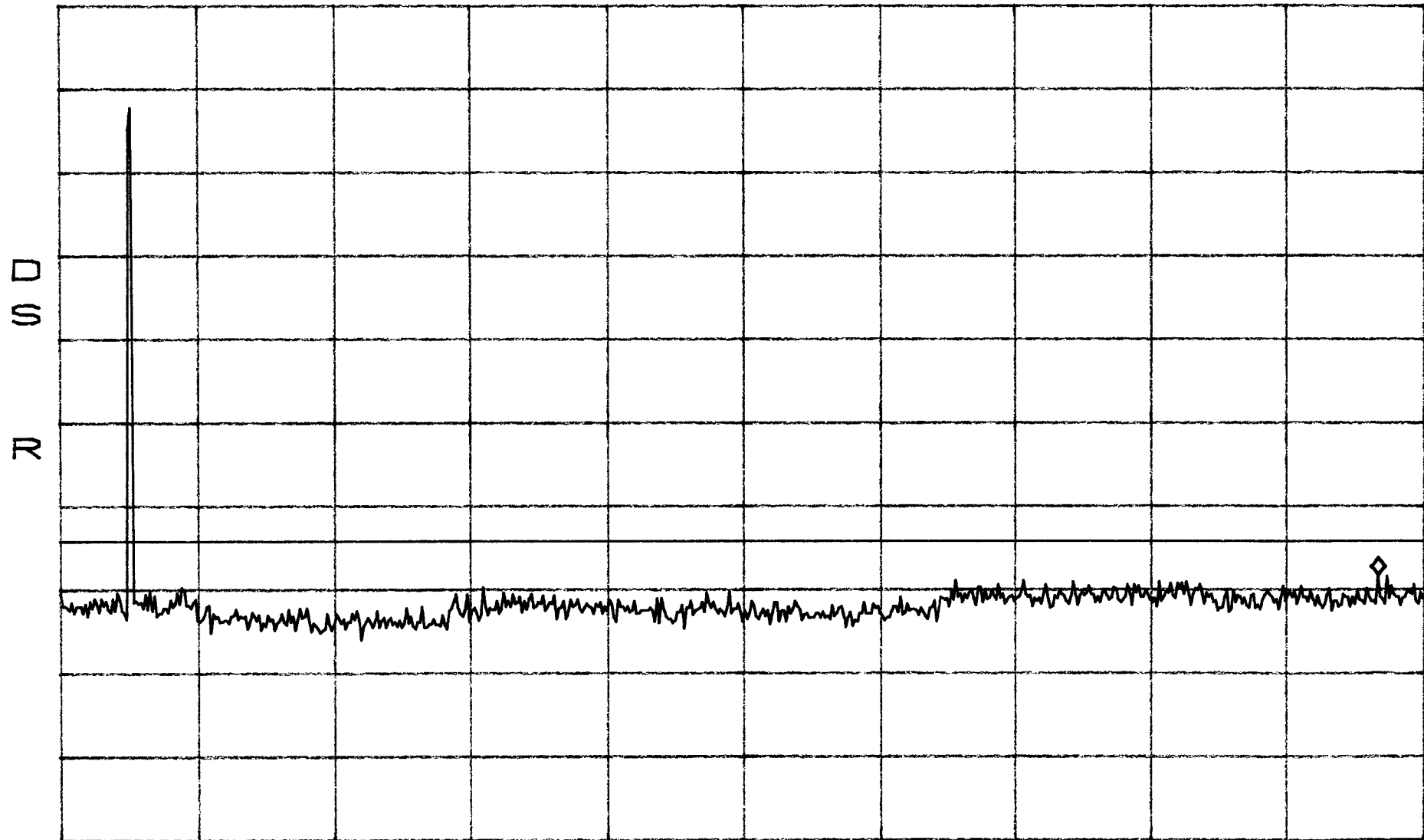
START 30.0MHz STOP 1.0000GHz  
\*RBW 30kHz VBW 30kHz SWP 2.7sec

Intermodulation BAND E,F,c  
Apart  
CDMA

\*ATTEN 30dB  
RL 51.3dBm

10dB/

MKR -16.87dBm  
19.37GHz



START 1.00GHz STOP 20.00GHz  
\*RBW 300kHz VBW 300kHz SWP 530ms

**CDMA Mask Test for ADC Inc.**  
**Digivance 1900 MHz 20 Watt System**  
**Model Numbers DGVL-436100SYS, DGVL-446100SYS,**  
**DGVL-456100SYS and DGVL-466100SYS.**

For the CDMA modulation type emission mask test, the average value of the center frequency will be 16.23dB down from the CW peak power. On any frequency removed from the center carrier frequency by up to 750 kHz the emissions are at or below 16.23dB below the peak power. On any frequency between 750 kHz and 1.98 MHz the emissions are below 45dB below the peak power. On any frequency removed from the carrier frequency by more than 1.98 MHz the emissions are below 60dB below the peak power. The test was performed at the low, mid, and high parts of the respective A, B, C, D, E, and F PCS bands.

**Results:**

Pass (see plots)

CDMA MASK BAND A,D

Low

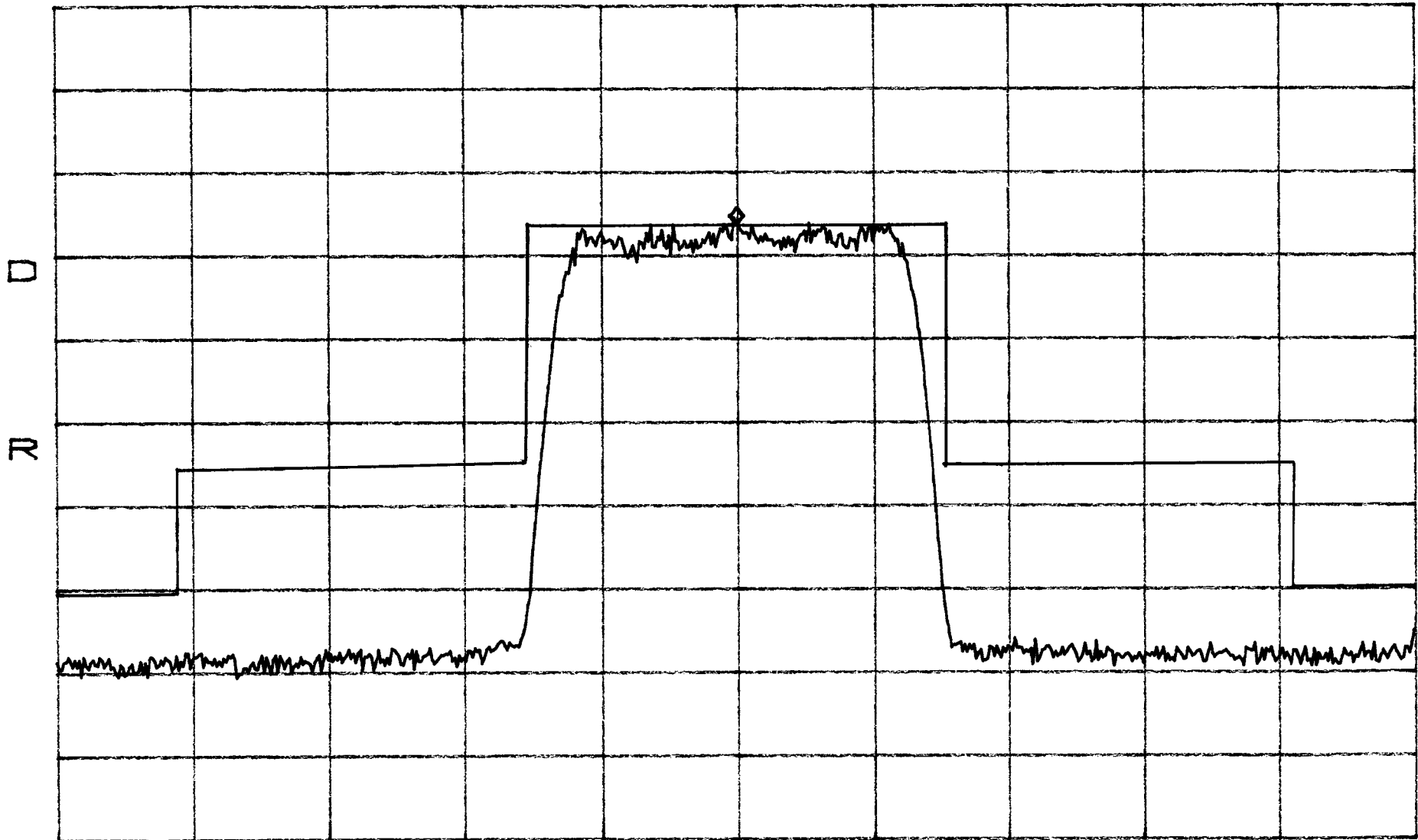
\*ATTEN 30dB VAVG 100 MKR 24.80dBm  
RL 51.3dBm 10dB/ BPO1 1.931000GHz



CENTER 1.931000GHz SPAN 5.000MHz  
\*RBW 30kHz VBW 30kHz SWP 50ms

CDMA MASK BAND A, D  
Mid

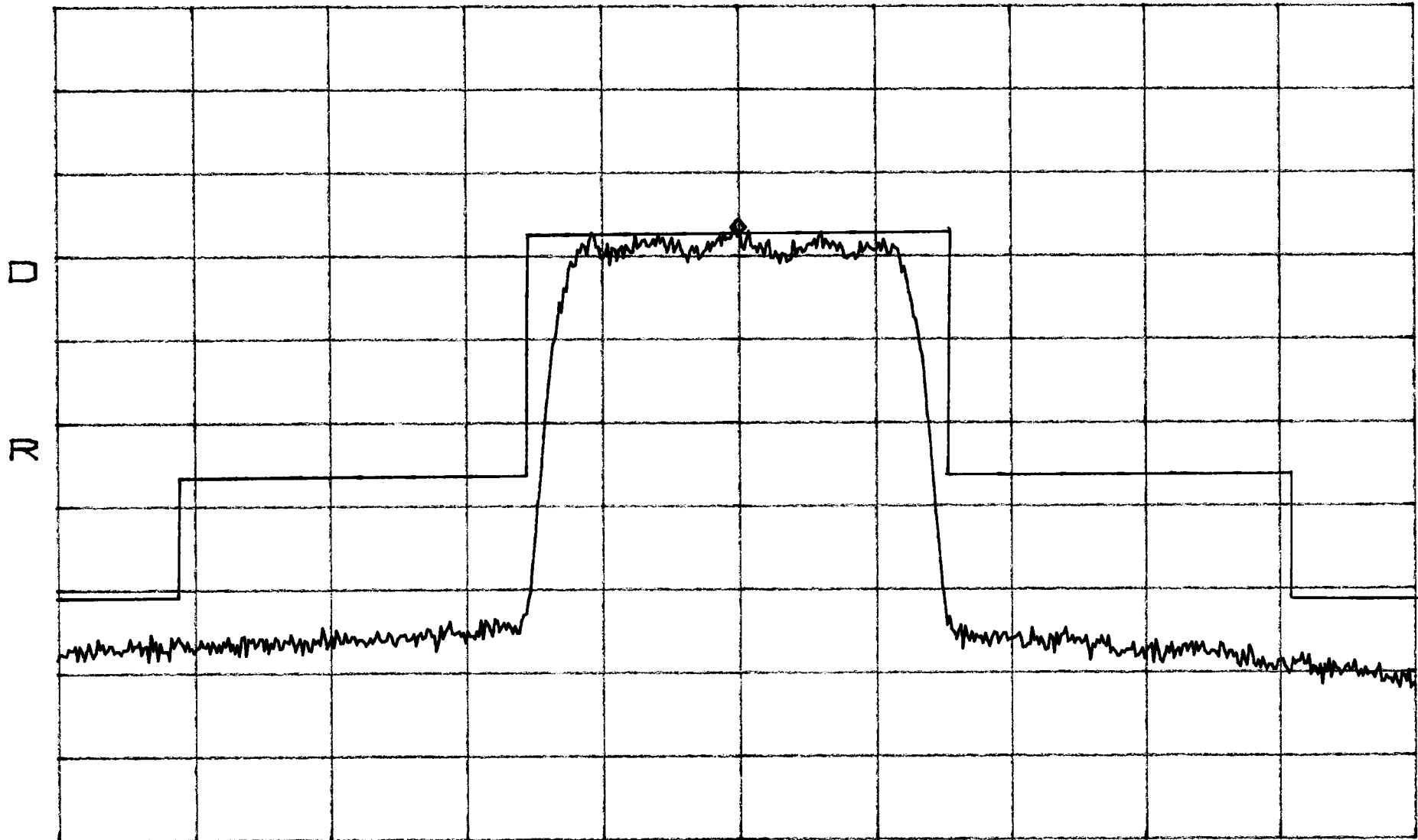
\*ATTEN 30dB VAVG 100 MKR 25.13dBm  
RL 51.3dBm 10dB/ 1.940000GHz



CENTER 1.940000GHz SPAN 5.000MHz  
\*RBW 30kHz VBW 30kHz SWP 50ms

CDMA MASK BAND A,D  
High

\*ATTEN 30dB VAVG 100 MKR 23.80dBm  
RL 51.3dBm 10dB/ 1.949000GHz



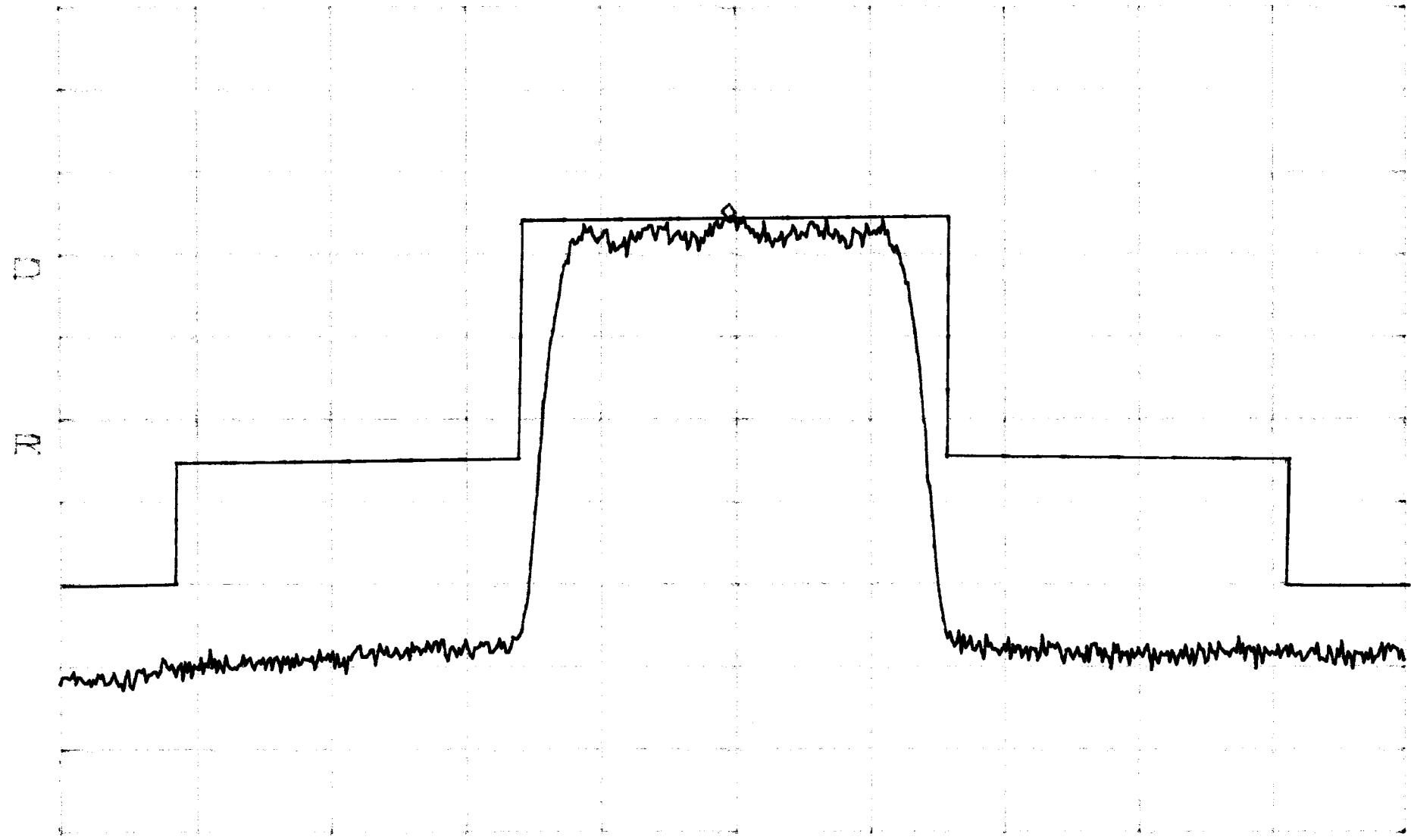
CENTER 1.949000GHz SPAN 5.000MHz  
\*RBW 30kHz VBW 30kHz SWP 50ms



CDMA MASK BAND D,B,E

Low

\*ATTEN 30dB VAVG 100 MKR 25.47dBm  
RL 51.3dBm 10dB/ 1.945975GHz

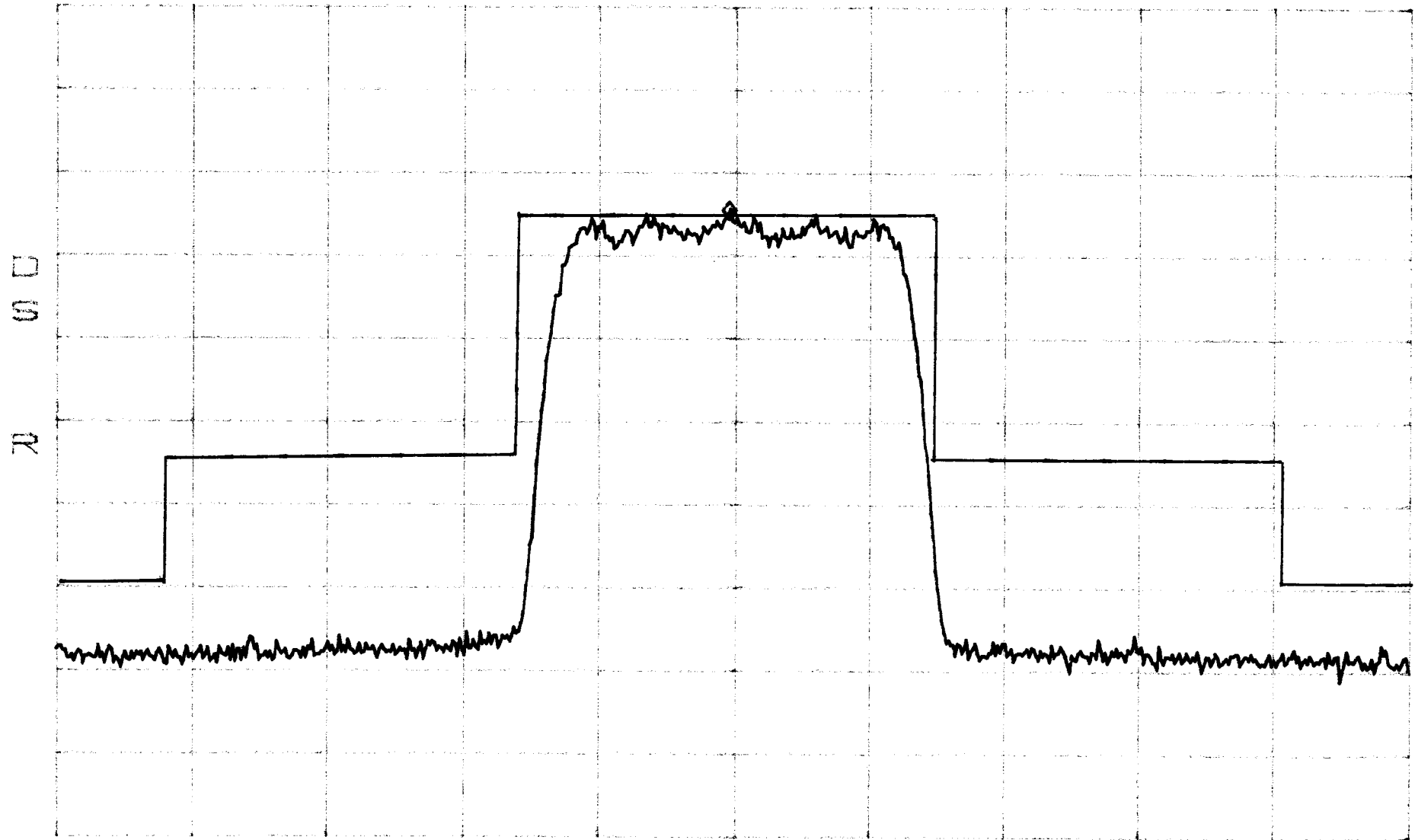


CENTER 1.9460000GHz SPAN 5.000MHz  
\*RBW 30kHz VBW 30kHz SWP 50ms

CDMA MASK  
Mid

BAND D,B,E

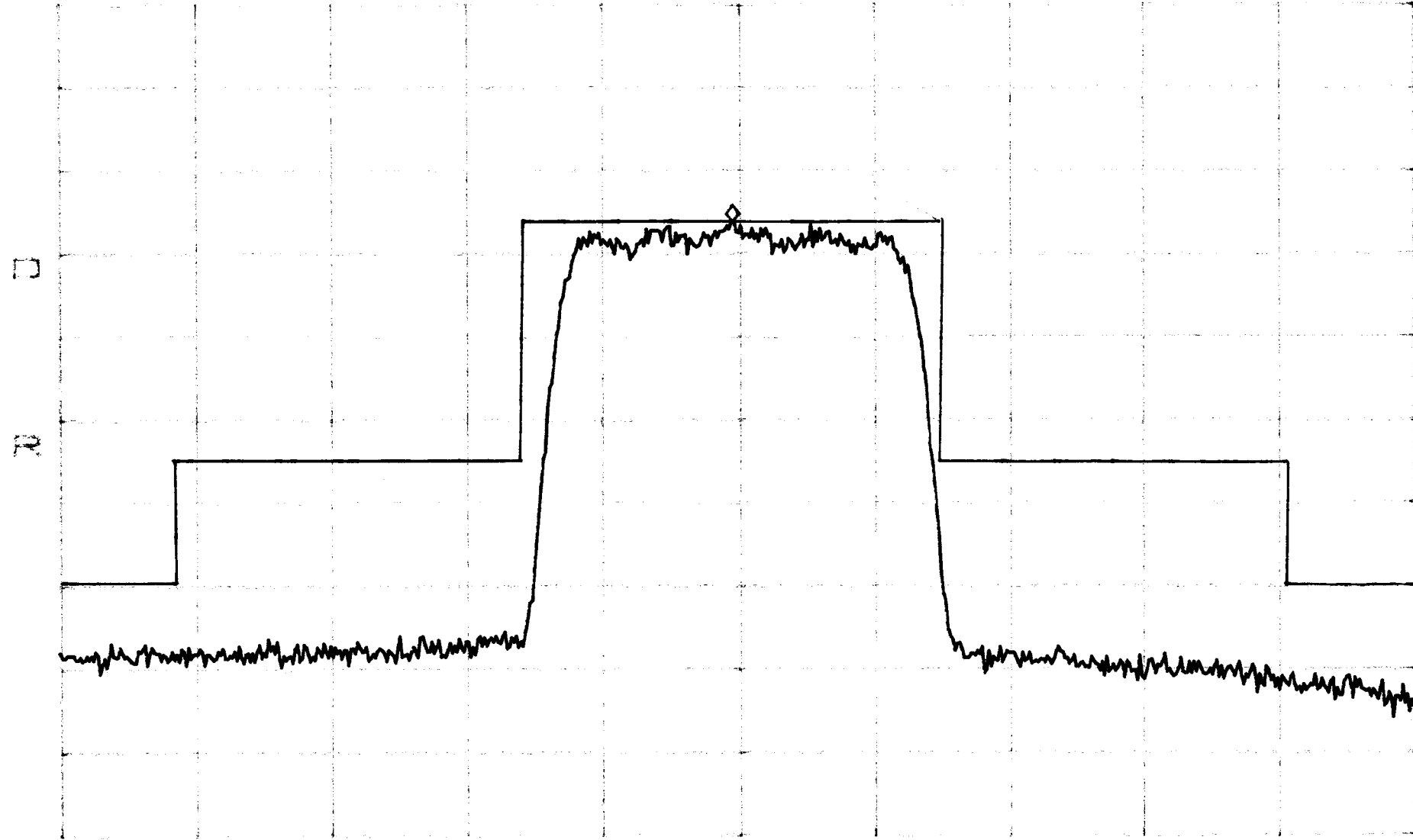
\*ATTN 30dB      VAVG 101      MKR 25.80dBm  
RL 51.3dBm      /BPO1      1.957475GHz



CENTER 1.957500GHz      SPAN 5.000MHz  
\*RBW 30kHz      VBW 30kHz      SWP 50ms

CDMA MASK BAND D,B,E  
High

\*ATTEN 30dB VAVG 100 MKR 25.13dBm  
RL 51.3dB 10dB/ 1.988875GHz



CENTER 1.989000GHz SPAN 5.000MHz  
\*RBW 30kHz VBW 30kHz SWP 50ms

CDMA MASK BAND B,E,F

Low

\*ATTEN 30dB VAVG 100 MKR 27.47dBm  
RL 51.3dBm 10dB/ 1.951000GHz



CENTER 1.951000GHz SPAN 5.000MHz  
\*RBW 30kHz \*VBW 30kHz SWP 50ms

CDMA MASK BAND B,E,F  
Mid

\*ATTEN 30dB VAVG 100 MKR 26.80dBm  
RL 51.3dBm 10dB/ BPO1 1.962500GHz



CENTER 1.962500GHz SPAN 5.000MHz  
\*RBW 30kHz \*VBW 30kHz SWP 50ms

CDMA MASK BAND B,E,F  
High

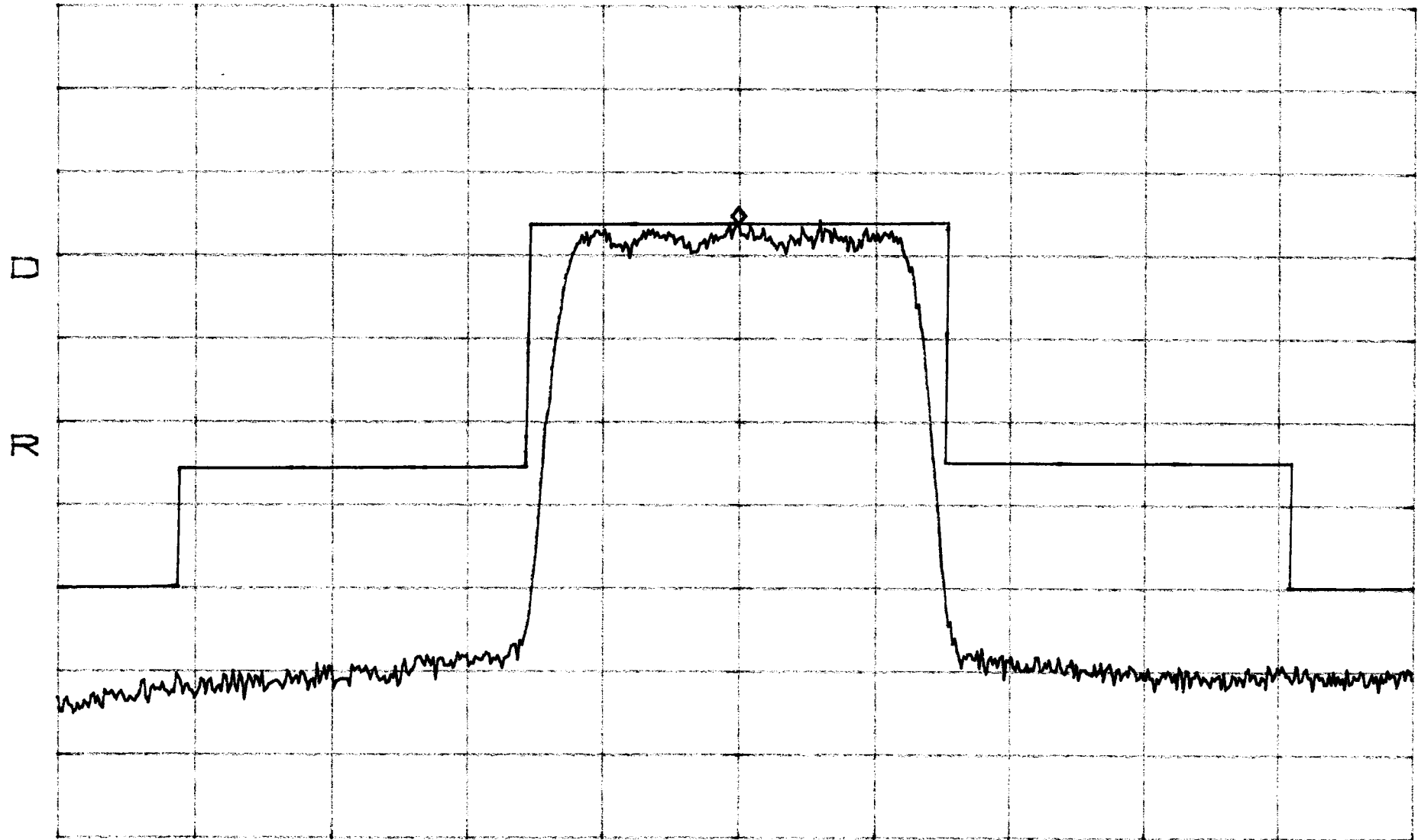
\*ATTEN 30dB VAVG 100 MKR 25.47dBm  
RL 51.3dBm 10dB/ BPO1 1.974000GHz



CENTER 1.974000GHz SPAN 5.000MHz  
\*RBW 30kHz \*VBW 30kHz SWP 50ms

CDMA MASK BAND E,F,C  
Low

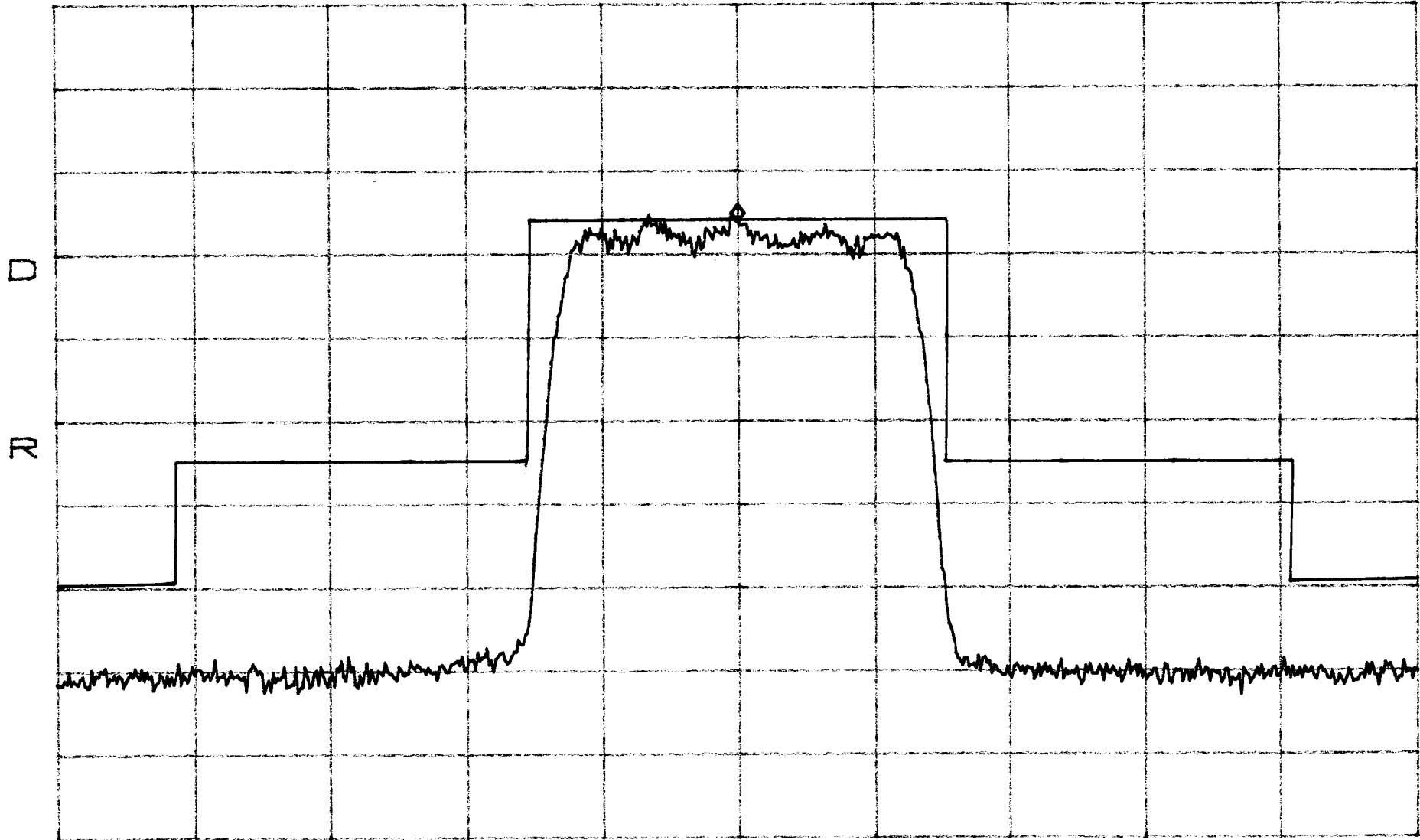
\*ATTEN 30dB VAVG 100 MKR 25.13dBm  
RL 51.3dBm 10dB/ 1.96600996GHz



CENTER 1.9660000GHz SPAN 5.000MHz  
\*RBW 30kHz VBW 30kHz SWP 50ms

CDMA MASK BAND E,F,C  
Mid

\*ATTEN 30dB VAVG 100 MKR 25.30dBm  
RL 51.3dBm 10dB/ 1.977500GHz

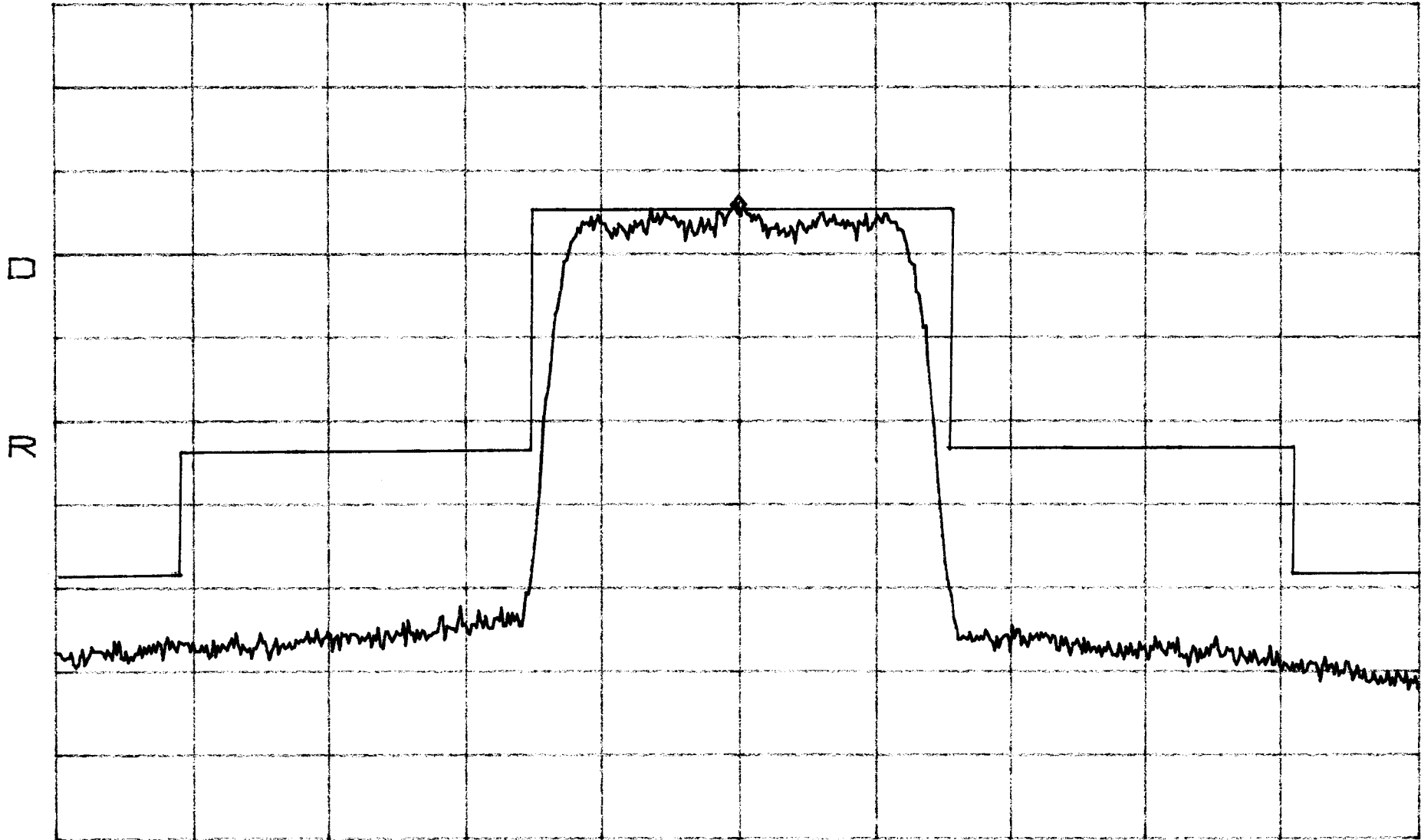


CENTER 1.977500GHz SPAN 5.000MHz  
\*RBW 30kHz VBW 30kHz SWP 50ms



CDMA MASK BAND E,F,C  
High

\*ATTEN 30dB      VAVG 100      MKR 26.30dBm  
RL 51.3dBm      10dB/      1.98900686



CENTER 1.989000GHZ      SPAN 5.000MHZ  
\*RBW 30KHZ      VBW 30KHZ      SWP 50ms

**Equipment Under Test (EUT) Test Operation Mode - Emission tests :**

The device under test was operated under the following conditions during emissions testing:

- Standby
- Test program (H - Pattern)
- Test program (color bar)
- Test program (customer specific)
- Practice operation
- Normal Operating Mode
- \_\_\_\_\_

**Configuration of the device under test:**

The following peripheral devices and interface cables were connected during the measurement:

- |                                  |              |
|----------------------------------|--------------|
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |
| <input type="checkbox"/> - _____ | Type : _____ |

- unshielded power cable
- unshielded cables
- shielded cables                      MPS.No.: \_\_\_\_\_
- customer specific cables
- \_\_\_\_\_
- \_\_\_\_\_

**DEVIATIONS FROM STANDARD:**

None

**GENERAL REMARKS:**

**SUMMARY:**

The requirements according to the technical regulations are

■ - met

□ - **not** met.

The device under test does

■ - fulfill the general approval requirements mentioned on page 3.

□ - **not** fulfill the general approval requirements mentioned on page 3.

Testing Start Date: 01 July 2003

Testing End Date: 05 July 2003

- TÜV PRODUCT SERVICE INC -

*Thomas K. Swanson*

*K. T. H. Rose*

Reviewed By:  
T. K. Swanson

Tested By:  
K. T. H. Rose

## TEST SETUP FOR EMISSIONS TESTING

See Test Setup Exhibit



Radiated emission (case radiation) test setup photos

See Test Setup Exhibit

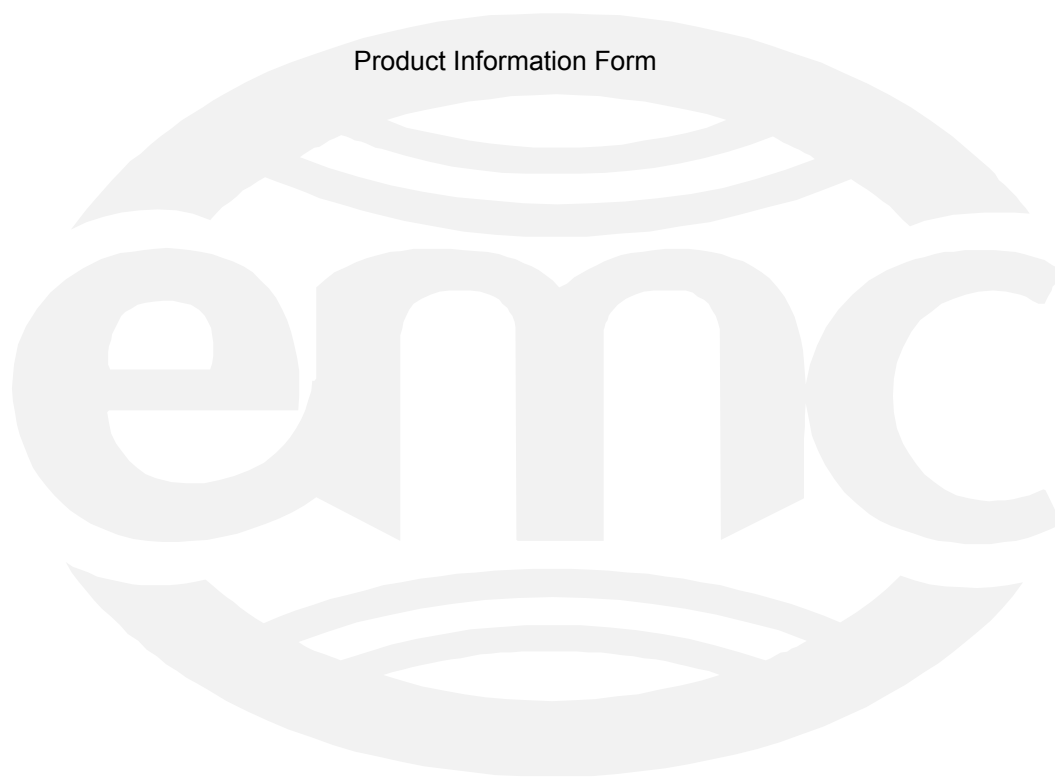


**Appendix A**

Constructional Data Form

And/or

Product Information Form



**EMC Test Plan and Constructional Data Form**

PLEASE COMPLETE THIS DOCUMENT IN FULL, ENTERING N/A IF THE FIELD IS NOT APPLICABLE.

**Applicant -- NOTE: This information will be input into your test report as shown below.**  
**Press the F1 key at any time to get HELP for the current field selected.**

Company: ADC Inc.

Address: P.O. Box 1101  
Minneapolis, MN 55440-1101

Contact: Mark F. Miska Position: Compliance Engineer

Phone: 952-917-0326 Fax: 952-917-0181

E-mail Address: mark\_miska@adc.com

**General Equipment Description -- NOTE: This information will be input into your test report as shown below.**

EUT Description: Transports RF between a remote antenna and a customer provided base station.

EUT Name: Digivance 1900 MHz 20 Watt System (A, B, C, D, E, and F Band)

Model No.: DGVL-436100SYS, DGVL-446100SYS, DGVL-456100SYS, and DGVL-466100SYS Serial No.: None

Product Options: None

Configurations to be tested: 1900 MHz 20 Watt A, B, C, D, E, and F Band

**Test Objective**

- |   |   |
|---|---|
| <input type="checkbox"/> EMC Directive 89/336/EEC (EMC)<br>Std: _____                           | <input checked="" type="checkbox"/> FCC: Class <input type="checkbox"/> A <input type="checkbox"/> B Part <u>24</u> |
| <input type="checkbox"/> Machinery Directive 89/392/EEC (EMC)<br>Std: _____                     | <input type="checkbox"/> VCCI: Class <input type="checkbox"/> A <input type="checkbox"/> B                          |
| <input type="checkbox"/> Medical Device Directive 93/42/EEC (EMC)<br>Std: _____                 | <input type="checkbox"/> BCIQ: Class <input type="checkbox"/> A <input type="checkbox"/> B                          |
| <input type="checkbox"/> Vehicle Directive 72/245/EEC (EMC)<br>Std: _____                       | <input type="checkbox"/> Canada: Class <input type="checkbox"/> A <input type="checkbox"/> B                        |
| <input type="checkbox"/> FDA Reviewers Guidance for Premarket<br>Notification Submissions (EMC) | <input type="checkbox"/> Australia: Class <input type="checkbox"/> A <input type="checkbox"/> B                     |
|   | <input type="checkbox"/> Other: _____   |

**TÜV Product Service Certification Requested**

- |  |   |
|--|---|
| <input type="checkbox"/> Attestation of Conformity (AoC) | <input type="checkbox"/> International EMC Mark (IEM)   |
| <input type="checkbox"/> Certificate of Conformity (CoC) | <input type="checkbox"/> Compliance Document  |
| Protection Class (N/A for vehicles)                      | <input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Class III |
- (Press **F1** when field is selected to show additional information on Protection Class.)

# EMC Test Plan and Constructional Data Form

## Attendance

Test will be:  Attended by the customer  Unattended by the customer

## Failure - Complete this section if testing will not be attended by the customer.

If a failure occurs, TUV Product Service should:  
 Call contact listed above, if not available then stop testing. (After hrs phone): \_\_\_\_\_  
 Continue testing to complete test series.  
 Continue testing to define corrective action.  
 Stop testing.

## EUT Specifications and Requirements

Length: 19" Width: 26" Height: 23" Weight: 47 LB

## Power Requirements

*Regulations require testing to be performed at typical power ratings in the countries of intended use. (i.e., European power is typically 230 VAC 50 Hz or 400 VAC 50 Hz, single and three phase, respectively)*

Voltage: 115 VAC (If battery powered, make sure battery life is sufficient to complete testing.)  
# of Phases: 1  
Current (Amps/phase(max)): 10.0 Current (Amps/phase(nominal)): 9.0  
Other \_\_\_\_\_

## Other Special Requirements

None

## Typical Installation and/or Operating Environment

(ie. Hospital, Small Business, Industrial/Factory, etc.)  
Host indoor only with STM and LPA indoor or outdoor. System is typically employed as a Microcell.

## EUT Power Cable

Permanent OR  Removable Length (in meters): 1  
 Shielded OR  Unshielded  
 Not Applicable



EMC Test Plan and Constructional Data Form



EUT Interface Ports and Cables												
Interface			Shielding									
Type	Analog	Digital	Qty	Yes	No	Type	Termination	Connector Type	Port Termination	Length (in meters)	Removable	Permanent
<b>EXAMPLE:</b> RS232	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Foil over braid	Coaxial	Metallized 9-pin D-Sub	Characteristic Impedance	6	<input checked="" type="checkbox"/>	<input type="checkbox"/>
RF "N" type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Braid	Coaxial	N	50 Ohms	>3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alarm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Specified	N/A	6 Pin Standoff		>3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Alarm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Specified	N/A	4 Pin Standoff		>3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fiber	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	N/A	SC	N/A	>3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9 Pin Din	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Specified	AC Coupled	Din		>3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Net in	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Specified	N/A	Cat 5		>3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Net out	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not Specified	N/A	Cat 5		3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DC power block	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None		Terminal		>3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
AC power	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	None				<3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
STM to Amp Interconnect	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Varied	Chassis	Special		.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Battery Connection	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	N/A	N/A	2 Pin Standoff		<1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>

## EMC Test Plan and Constructional Data Form

### EUT Software.

Revision Level: Version 0.00.00.12

Description: Digivance Element Management System (DEMS). System Management and Interface Matching Software.

**EUT Operating Modes to be Tested** -- list the operating modes to be used during test. It is recommended the equipment be tested while operating in a typical operation mode. FCC testing of personal computers and/or peripherals requires that a simple program generate a complete line of upper case H's. Provide a general description of all software, firmware, and PLD algorithms used in the equipment. List all code modules as described above, with the revision level used during testing. Consult with your TÜV Product Service Representative if additional assistance is required.

1. Max composite in and out
  
- 2.
  
- 3.

**EUT System Components** -- List and describe all components which are part of the EUT. For FCC testing a minimum configuration is required. (ie. Mouse, Printer, Monitor, External Disk Drive, Motherboard, etc.)

Description	Model #	Serial #	FCC ID #
Host Unit	DGVL-401000HU	None	
STM AD Band	DGVL-431000STM	None	
STM DBE Band	DGVL-441000STM	None	
STM BEF Band	DGVL-451000STM	None	
STM EFC Band	DGVL-461000STM	None	
LPA	DGVL-406000LPA	None	
Digivance LRCS 1900 MHz 20 Watt System consist of the HU, STM, and LPA.			

## EMC Test Plan and Constructional Data Form

<b>Support Equipment</b> -- List and describe all support equipment which is not part of the EUT. (i.e. peripherals, simulators, etc)			
<i>Description</i>	<i>Model #</i>	<i>Serial #</i>	<i>FCC ID #</i>
Signal Generator	HP E4436B	963739	
DC Power Supply	HPD 60-5	MC27884	

<b>Oscillator Frequencies</b>			
<i>Frequency</i>	<i>Derived Frequency</i>	<i>Component # / Location</i>	<i>Description of Use</i>

<b>Power Supply</b>			
<i>Manufacturer</i>	<i>Model #</i>	<i>Serial #</i>	<i>Type</i>
ADC			<input type="checkbox"/> Switched-mode: (Frequency) _____ <input type="checkbox"/> Linear <input type="checkbox"/> Other: _____
			<input type="checkbox"/> Switched-mode: (Frequency) _____ <input type="checkbox"/> Linear <input type="checkbox"/> Other: _____

<b>Power Line Filters</b>		
<i>Manufacturer</i>	<i>Model #</i>	<i>Location in EUT</i>
None		

EMC Test Plan and Constructional Data Form



Critical EMI Components (Capacitors, ferrites, etc.)

Description	Manufacturer	Part # or Value	Qty	Component # / Location
None				

EMC Critical Detail -- Describe other EMC Design details used to reduce high frequency noise.

None

(PLEASE INSERT "ELECTRONIC SIGNATURE" BELOW IF POSSIBLE)

Authorization Signatures

Mark D. Miska  
 Customer authorization to perform tests according to this test plan.

4-16-03  
 Date

\_\_\_\_\_  
 Test Plan/CDF Prepared By (please print)

\_\_\_\_\_  
 Date

\_\_\_\_\_  
 Reviewed by TÜV Product Service Associate

\_\_\_\_\_  
 Date