

BAND EDGE BAND A

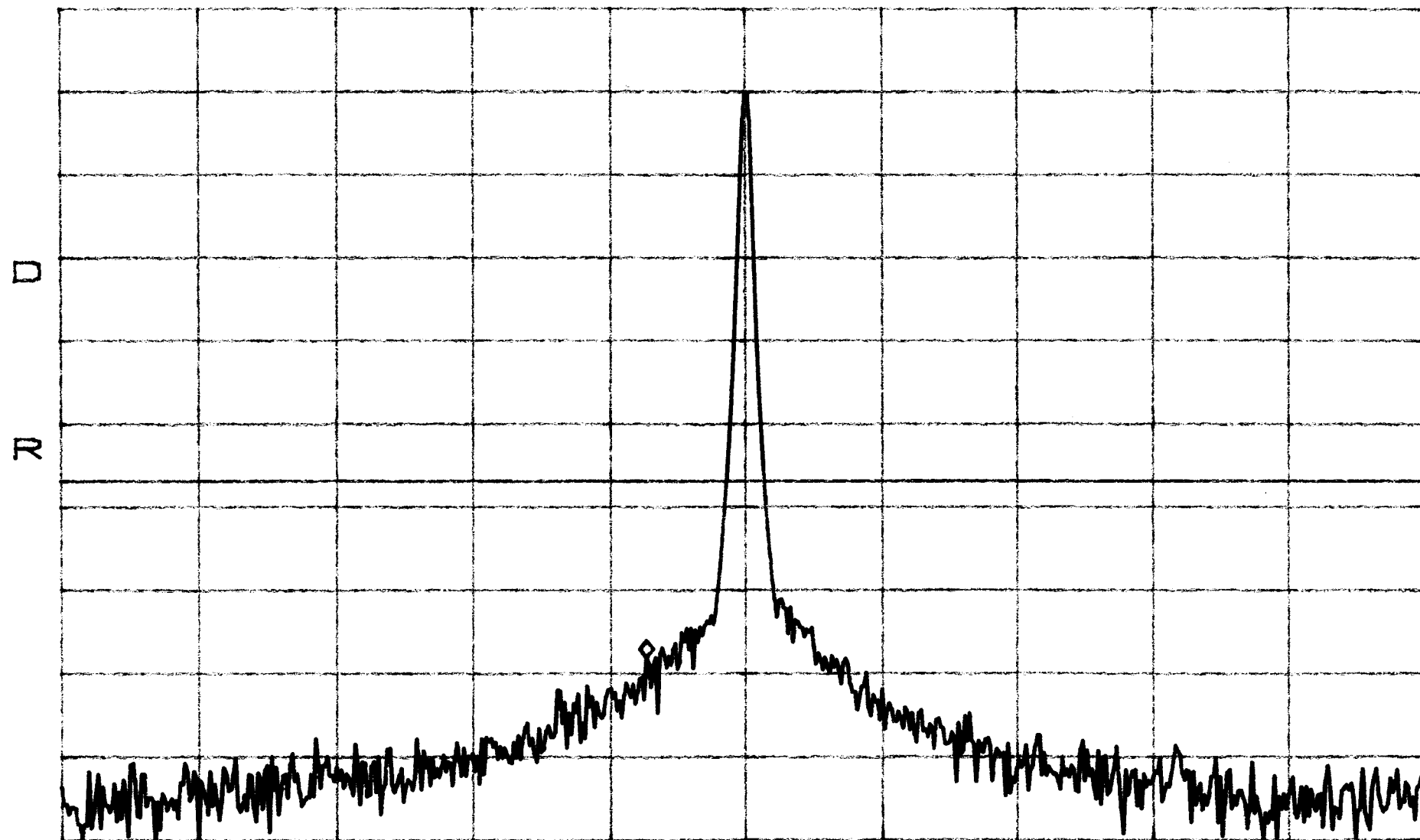
\*ATTEN 20dB

MKR -34.00dBm

RL 44.0dBm

10dB/

1.8501927GHz



CENTER 1.8502000GHz

SPAN 100.0kHz

\*RBW 300Hz

VBW 300Hz

SWP 2.8sec

BAND EDGE BAND A

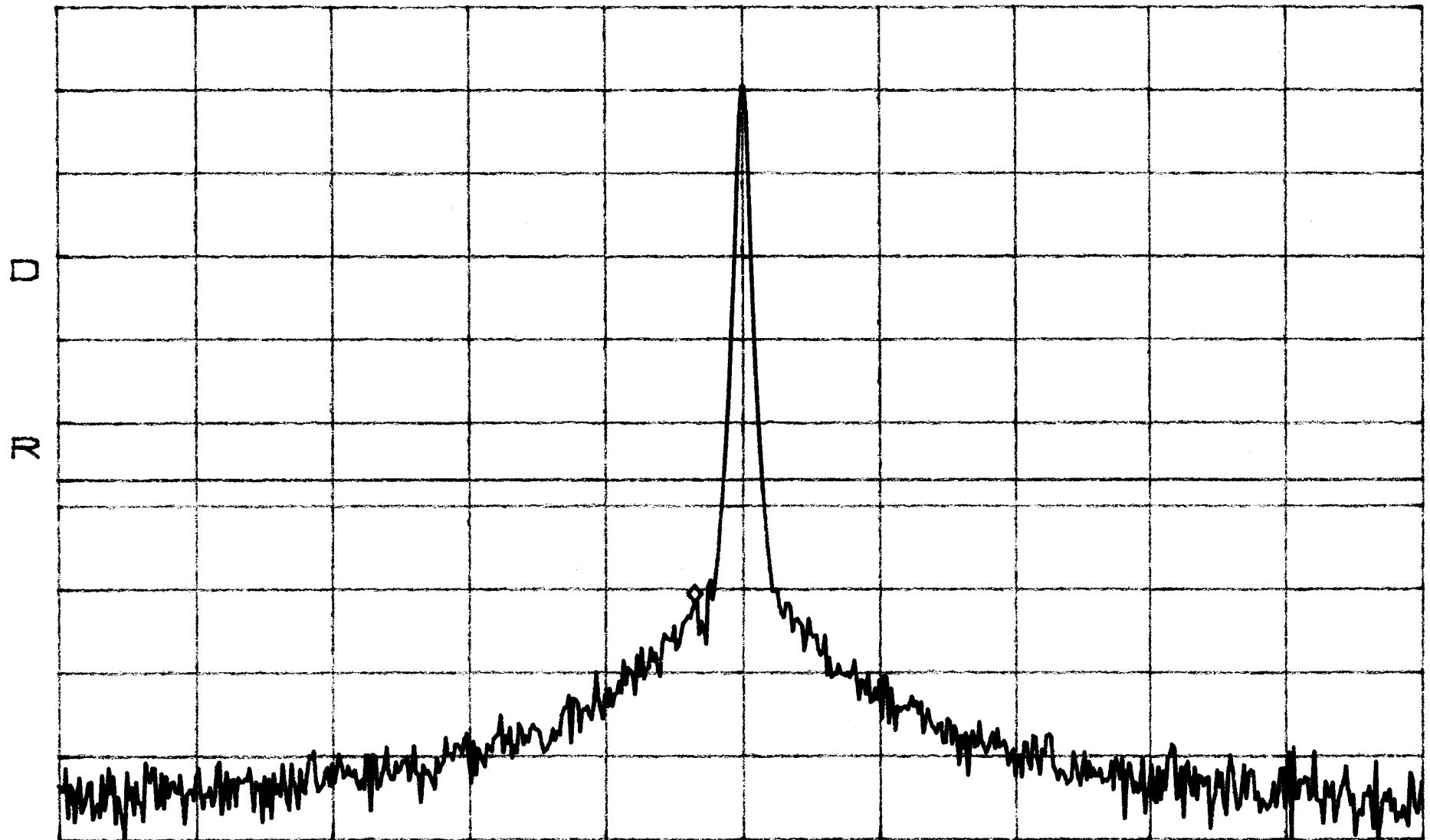
\*ATTEN 20dB

MKR -27.50dBm

RL 44.0dBm

10dB/

1.8647965GHz



CENTER 1.8648000GHz

SPAN 100.0kHz

\*RBW 300Hz

VBW 300Hz

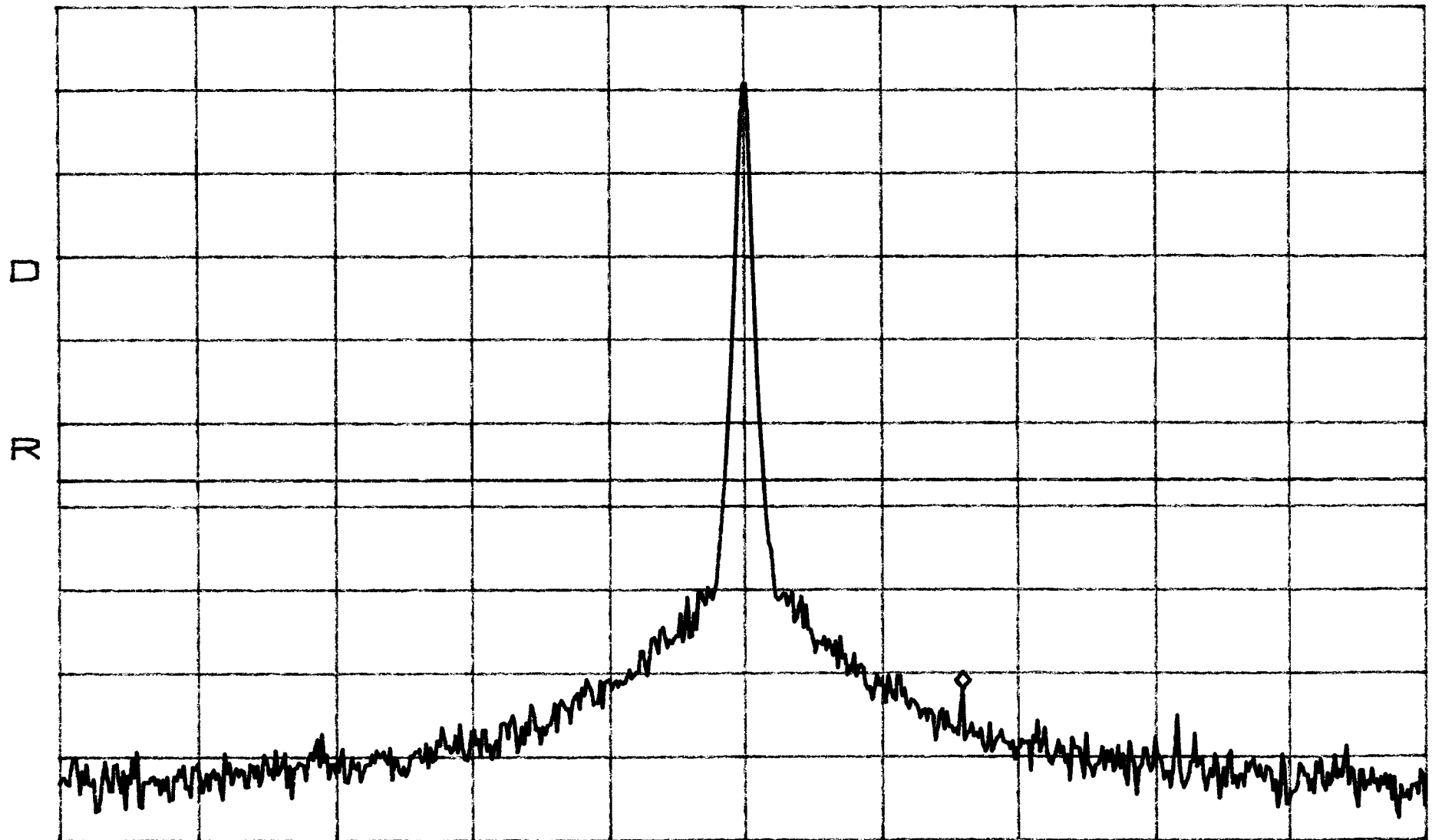
SWP 2.8sec

BAND EDGE BAND B

\*ATTEN 20dB  
RL 44.0dBm

10dB/

MKR -37.83dBm  
1.8702160GHz



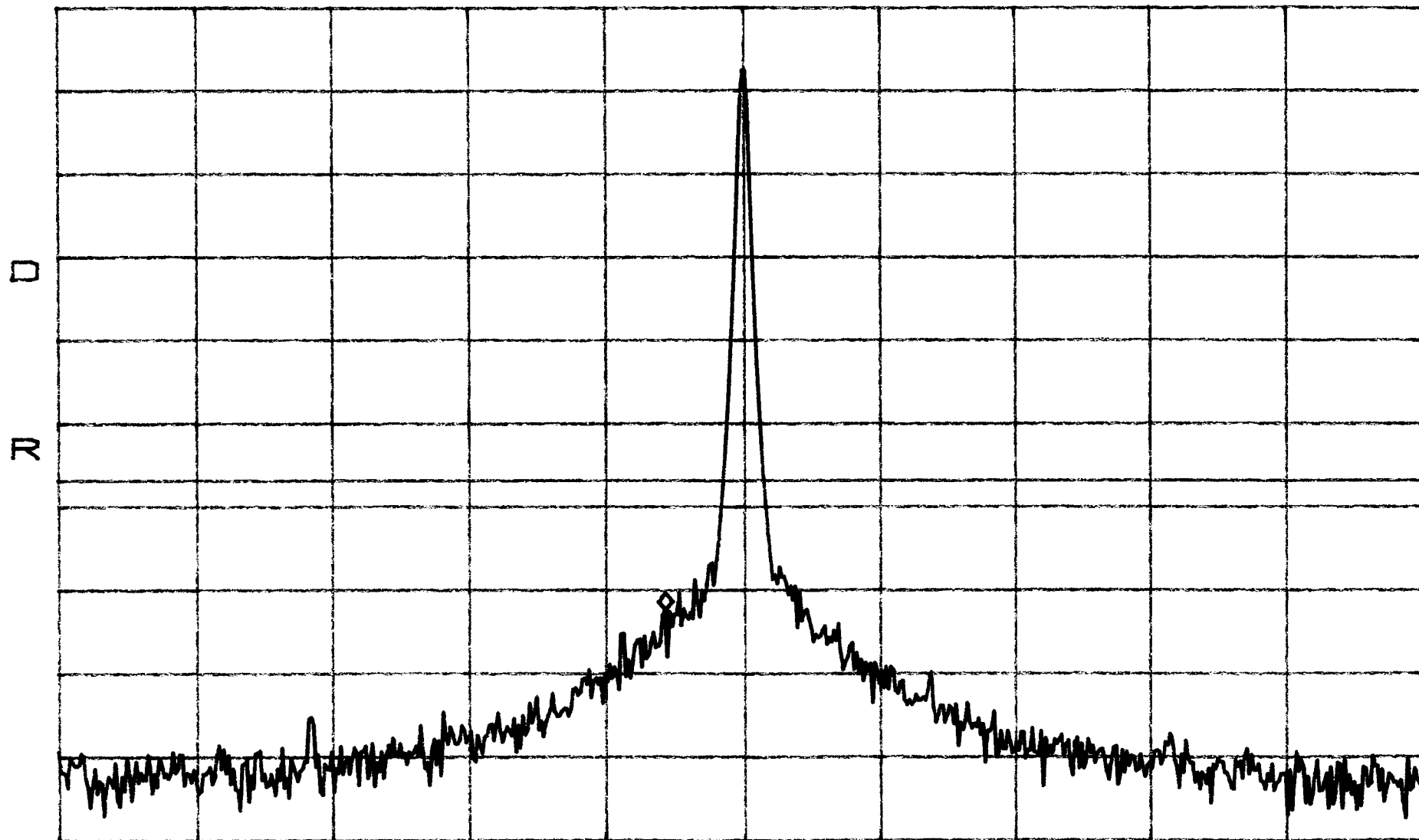
CENTER 1.8702000GHz  
\*RBW 300Hz VBW 300Hz

SPAN 100.0kHz  
SWP 2.8sec

\*ATTEN 20dB  
RL 44.0dBm

10dB/

MKR -28.33dBm  
1.8847943GHz



CENTER 1.8848000GHz  
\*RBW 300Hz VBW 300Hz

SPAN 100.0kHz  
SWP 2.8sec

BAND EDGE

BAND C

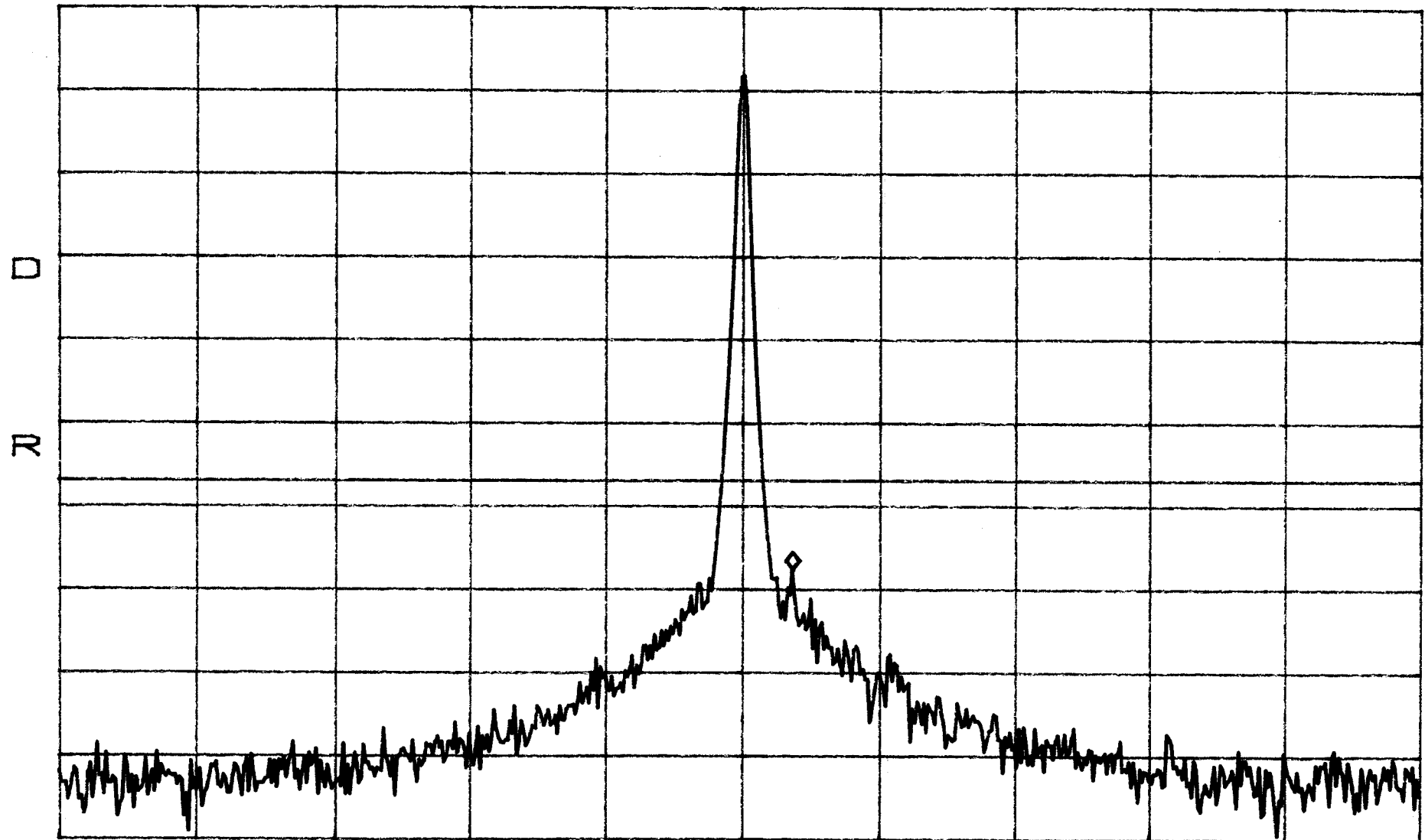
\*ATTEN 20dB

MKR -23.50dBm

RL 44.0dBm

10dB/

1.8952037GHz



CENTER 1.8952000GHz

SPAN 100.0kHz

\*RBW 300Hz

VBW 300Hz

SWP 2.8sec

BAND EDGE

BAND C

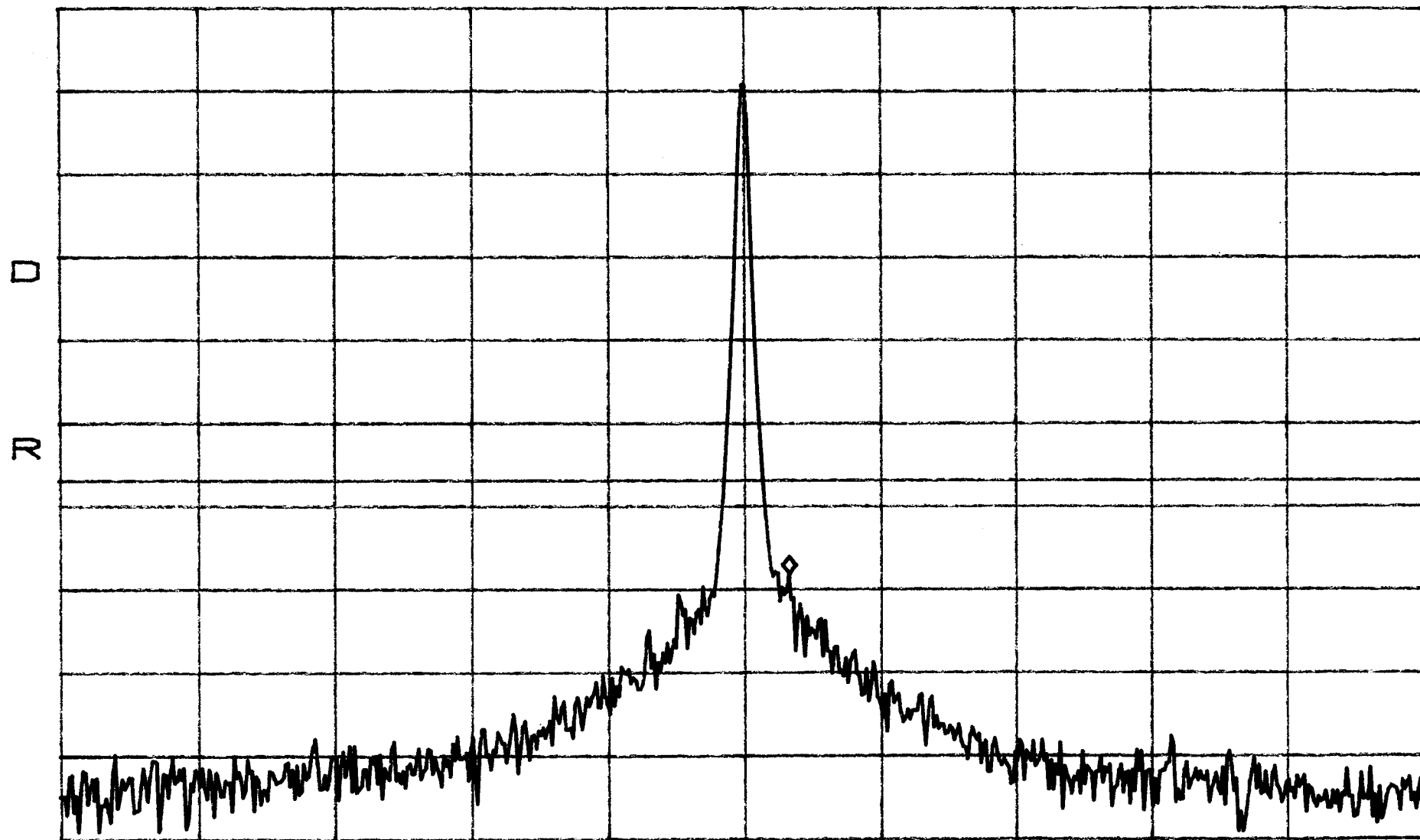
\*ATTEN 20dB

MKR -24.00dBm

RL 44.0dBm

10dB/

1.9098033GHz



CENTER 1.9098000GHz

SPAN 100.0kHz

\*RBW 300Hz

VBW 300Hz

SWP 2.8sec

BAND EDGE

BAND D

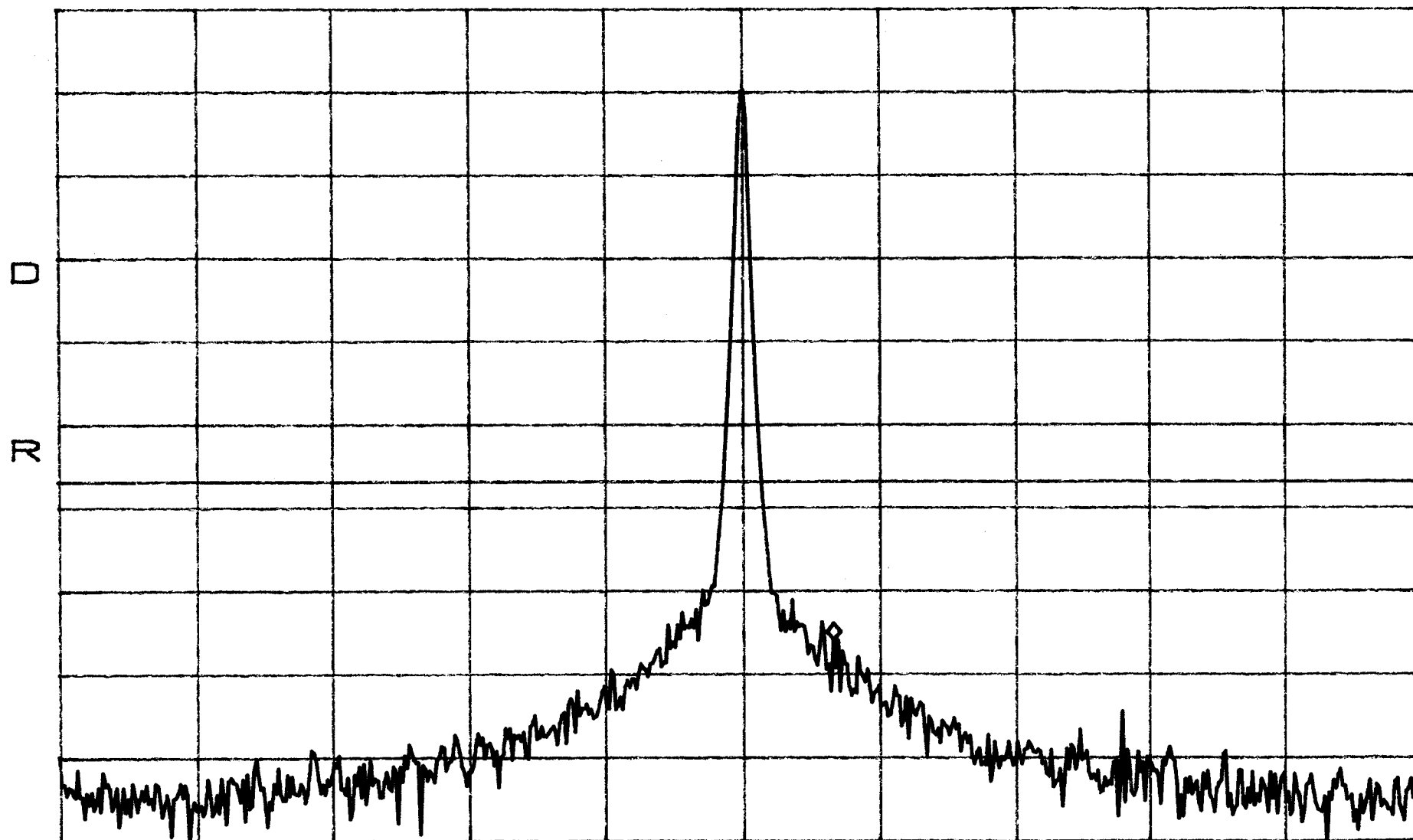
\*ATTEN 20dB

MKR -31.83dBm

RL 44.0dBm

10dB/

1.8652067GHz



CENTER 1.8652000GHz

SPAN 100.0kHz

\*RBW 300Hz

VBW 300Hz

SWP 2.8sec

BAND EDGE

BAND D

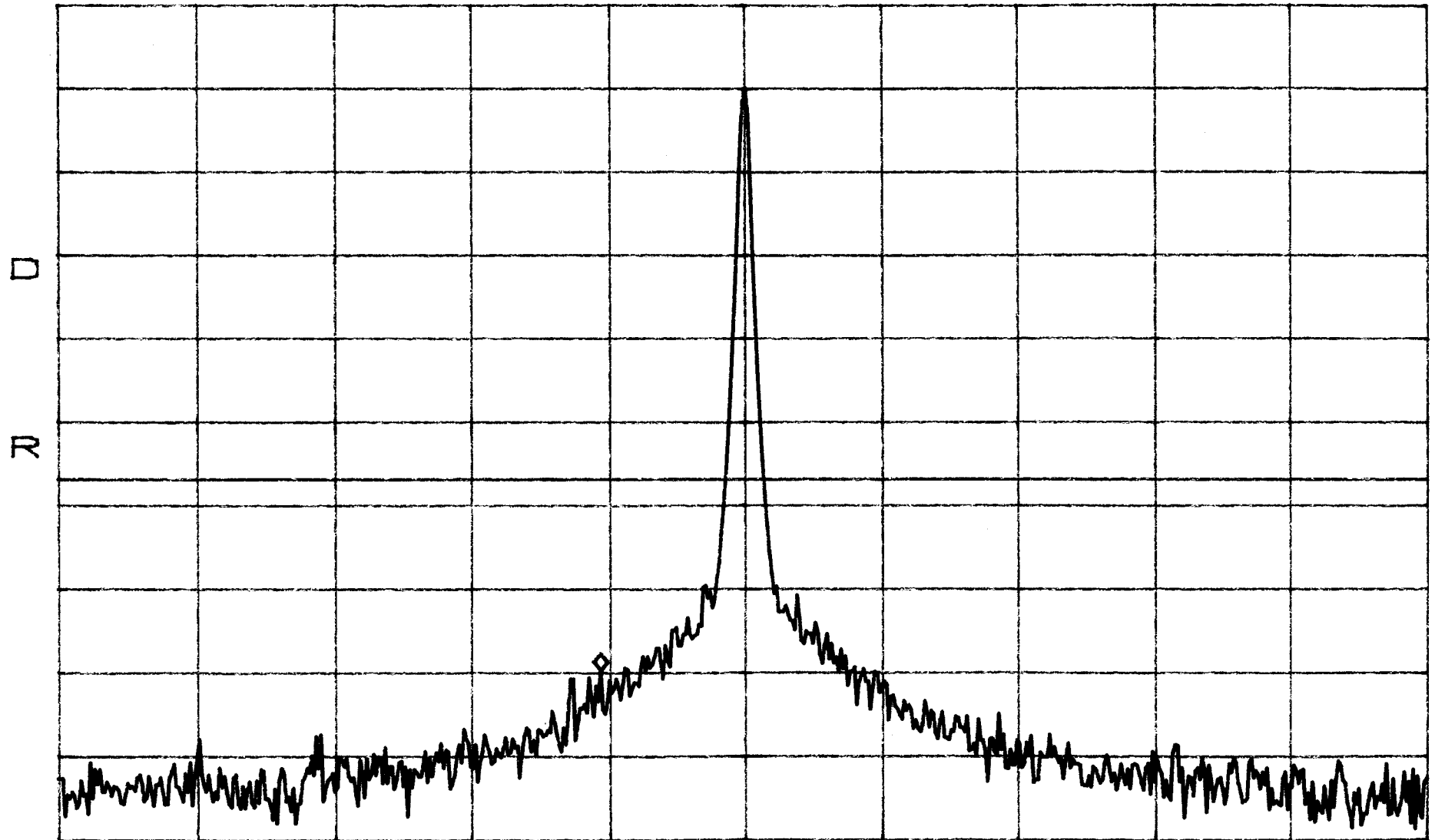
\*ATTEN 20dB

MKR -35.67dBm

RL 44.0dBm

10dB/

1.8697893GHz



CENTER 1.8698000GHz

SPAN 100.0kHz

\*RBW 300Hz

VBW 300Hz

SWP 2.8sec

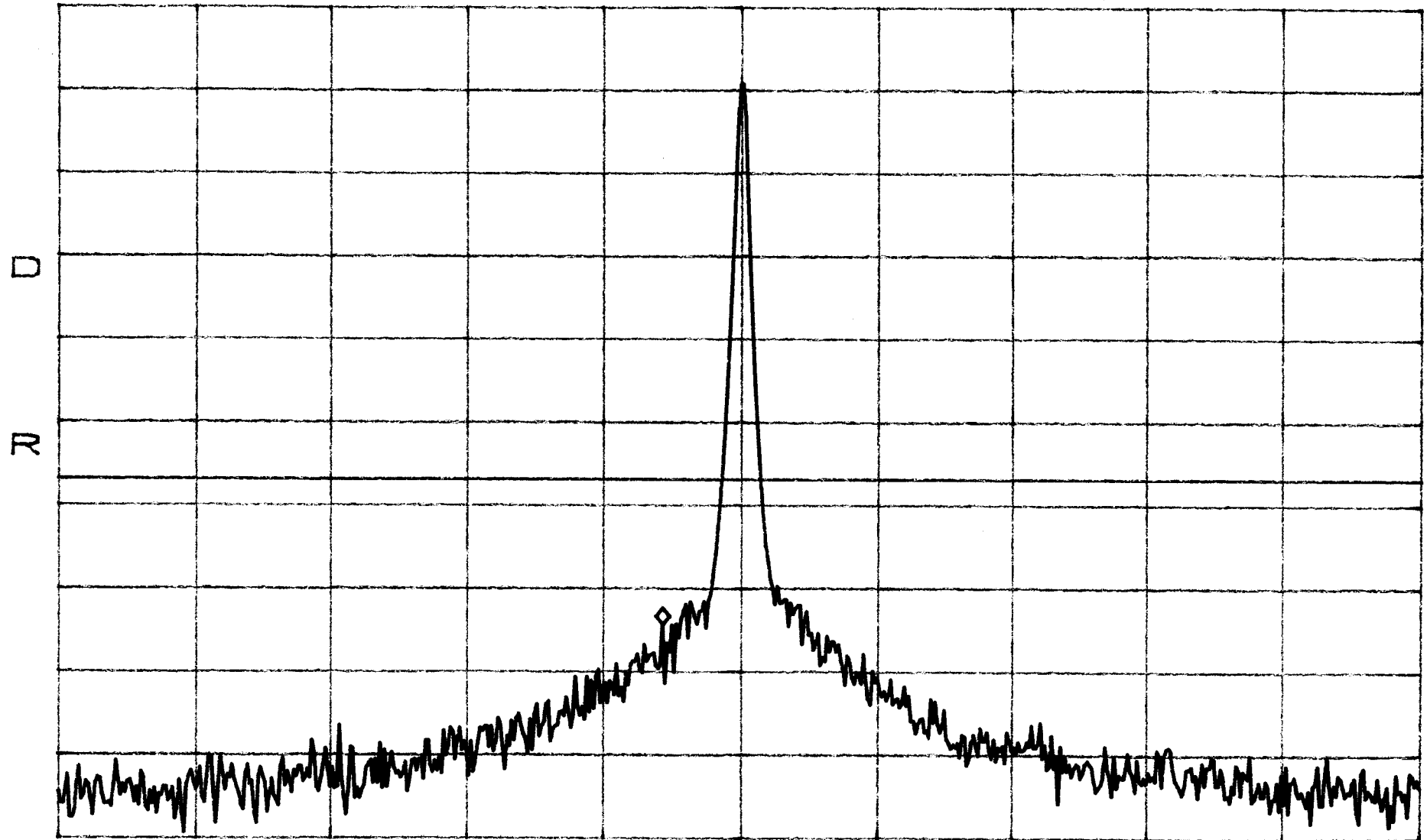
BAND EDGE

BAND E

\*ATTEN 20dB  
RL 44.0dBm

10dB/

MKR -30.33dBm  
1.8851943GHz



CENTER 1.8852000GHz  
\*RBW 300Hz VBW 300Hz

SPAN 100.0kHz  
SWP 2.8sec

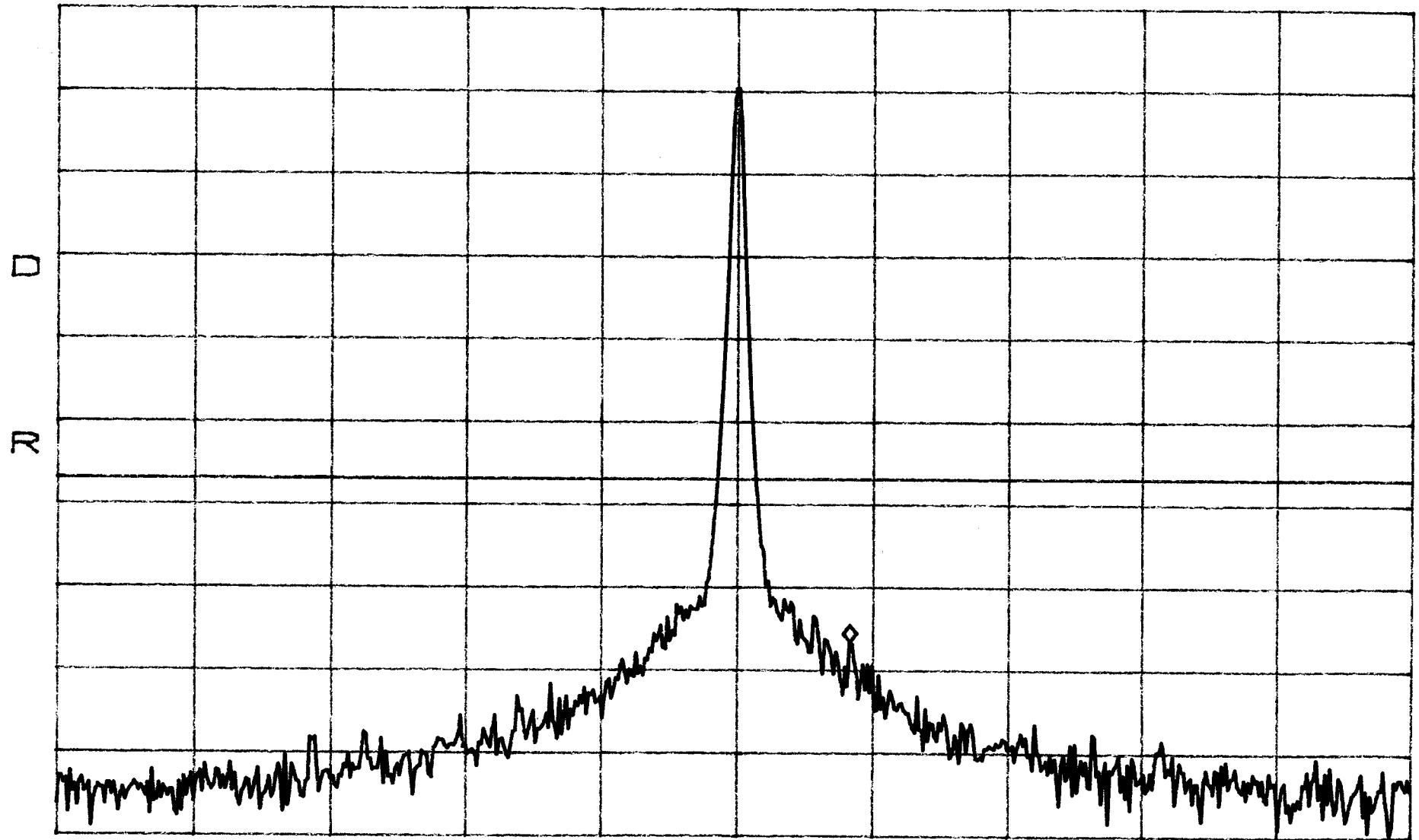
BAND EDGE

BANDE

\*ATTEN 20dB  
RL 44.0dBm

10dB/

MKR -32.50dBm  
1.8898083GHz



CENTER 1.8898000GHz  
\*RBW 300Hz VBW 300Hz

SPAN 100.0kHz  
SWP 2.8sec

BAND EDGE BAND F

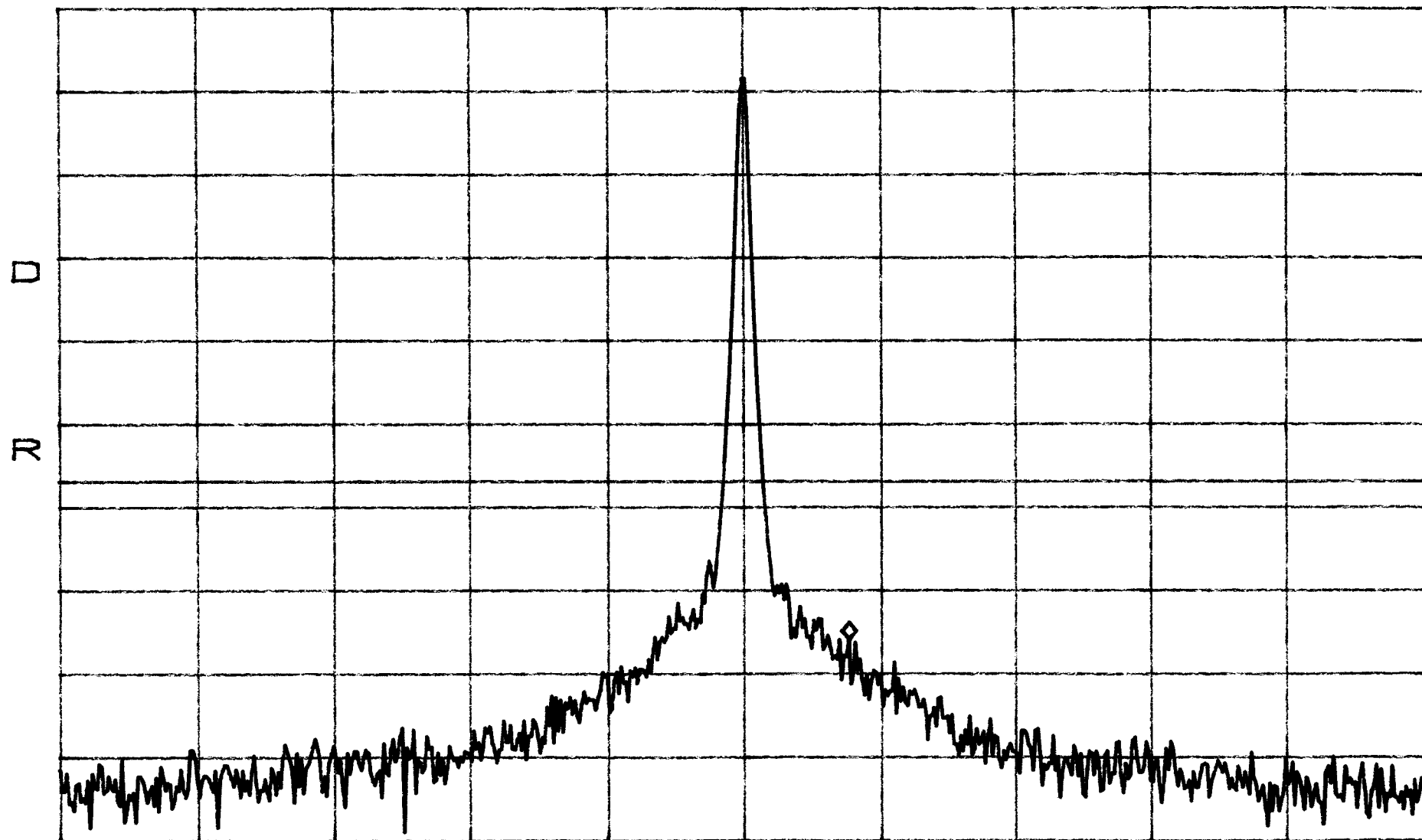
\*ATTEN 20dB

MKR -31.83dBm

RL 44.0dBm

10dB/

1.8902077GHz



CENTER 1.8902000GHz

SPAN 100.0kHz

\*RBW 300Hz

VBW 300Hz

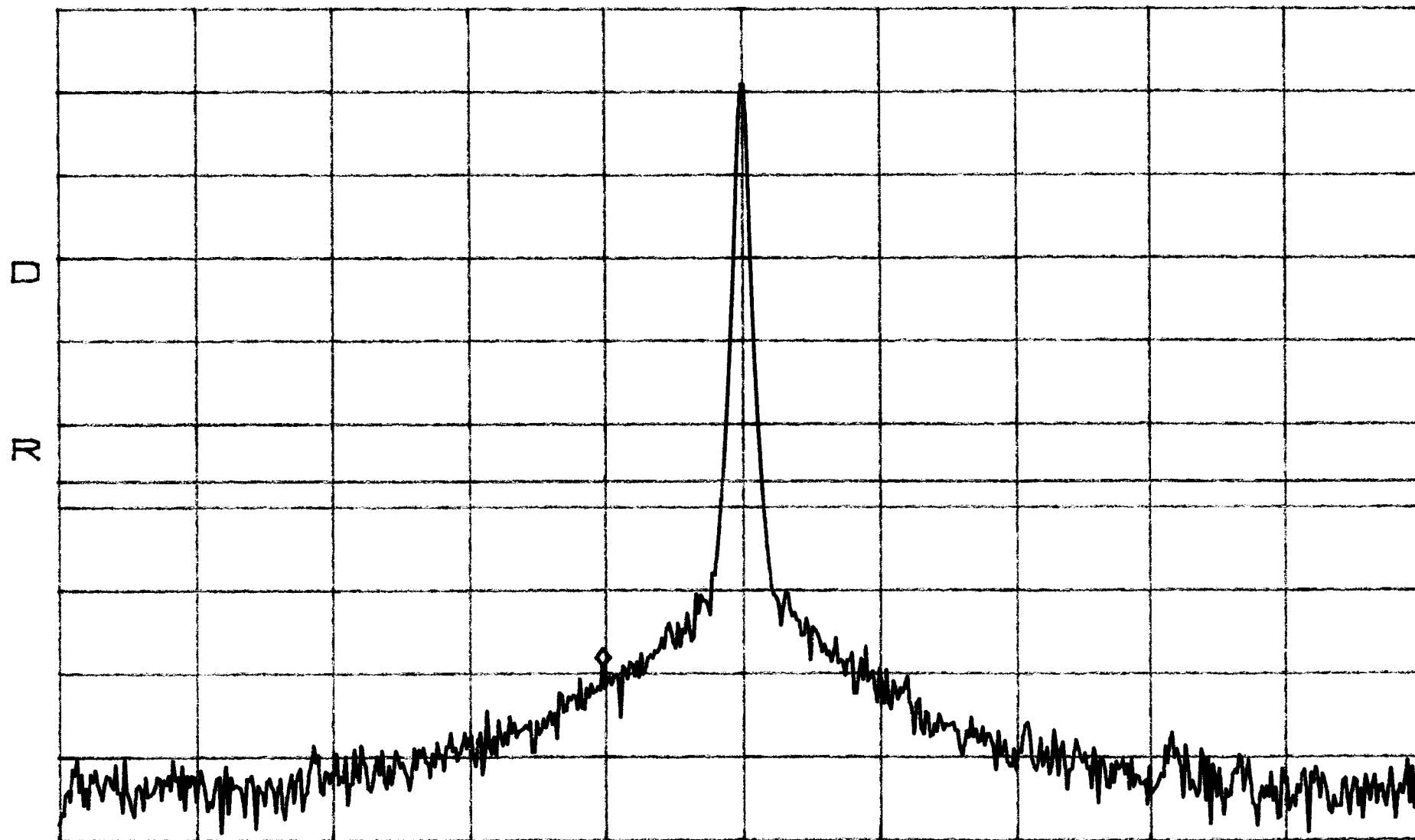
SWP 2.8sec

BAND EDGE BAND F

\*ATTEN 20dB  
RL 44.0dBm

MKR -35.00dBm  
1.8947898GHz

10dB/



CENTER 1.8948000GHz

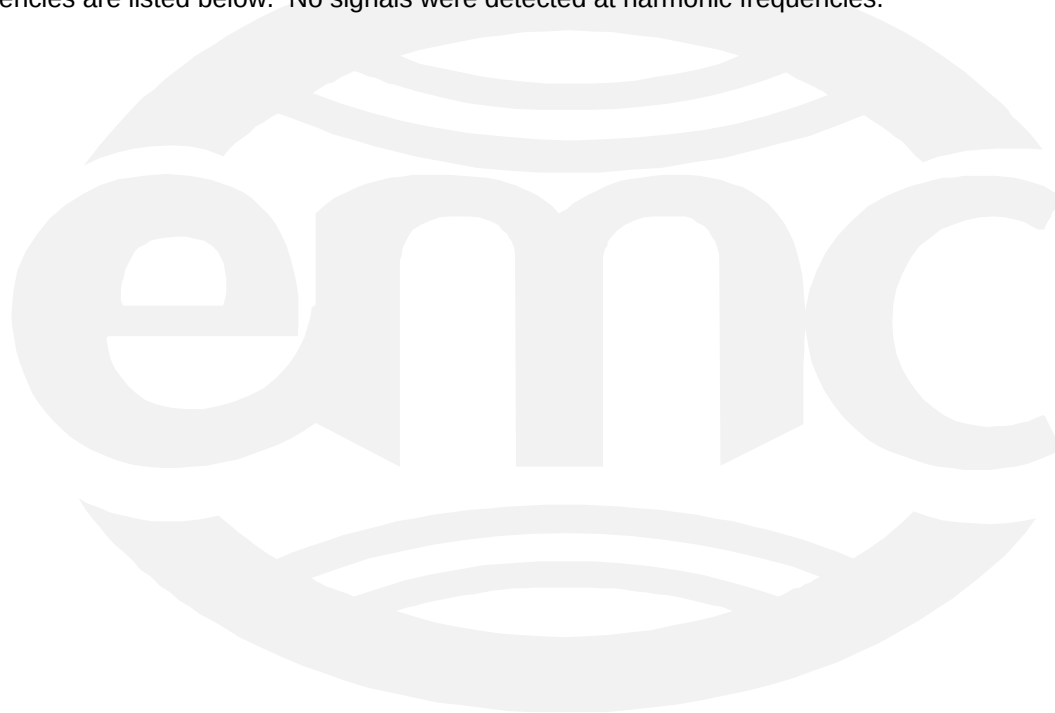
SPAN 100.0kHz

\*RBW 300Hz

VBW 300Hz

SWP 2.8sec

A radiated emission scan was also made with the EUT's antenna replaced with a termination to demonstrate case radiation compliance to the  $-13$  dBm requirement at the 3 carrier frequencies. Radiated emissions from the EUT are measured in the frequency range of 30 to 20000 MHz using a spectrum analyzer and appropriate broadband linearly polarized antennas. Measurements between 30 MHz and 1000 MHz are made with 120 kHz/6 dB bandwidth and quasi-peak detection and measurements above 1000 MHz are made with a 1 MHz/6 dB bandwidth and peak detection. Table top equipment is placed on a 1.0 X 1.5 meter non-conducting table 80 centimeters above the ground plane. Floor standing equipment is placed directly on the turntable/ground plane. Interface cables that are closer than 40 centimeters to the ground plane are bundled in the center in a serpentine fashion so they are at least 40 centimeters from the ground plane. Cables to simulators/testers (if used in this test) are routed through the center of the table and to a screen room located outside the test area. The antenna is positioned 10 meters horizontally from the EUT. To locate maximum emissions from the test sample the antenna is varied in height from 1 to 4 meters, measurement scans are made with both horizontal and vertical antenna polarizations and the EUT are rotated 360 degrees. The field strength levels were measured per ANSI C63.4. The EUT is then replaced with a tuned dipole antenna (below 1 GHz) or horn antenna (above 1 GHz). The substitute antenna was placed in the same polarization as the test antenna. A signal generator was used to generate a signal level that matched the level measured from the EUT. The signal generator level minus the cable loss from the signal generator to the substitute antenna plus the substitute antenna gain equals the spurious power level. The 10 highest frequencies are listed below. No signals were detected at harmonic frequencies.



# Radiated Electromagnetic Emissions



|                  |                                                             |                    |                 |              |
|------------------|-------------------------------------------------------------|--------------------|-----------------|--------------|
| Test Report #:   | <b>7868 Run 1</b>                                           | Test Area:         | LTS 3m          |              |
| Test Method:     | FCC Part 24                                                 | Test Date:         | 11-Dec-2001     |              |
| EUT Model #:     | DGVI-370000RIU                                              | EUT Power:         | 110 VAC / 60 Hz |              |
| EUT Serial #:    | fcc1                                                        | Temperature:       | 23              | °C           |
| Manufacturer:    | ADC                                                         | Relative Humidity: | 19              | %            |
| EUT Description: | RF amplifier                                                | Air Pressure:      | 98.6            | kPa          |
| Notes:           | 6 bands to be tested, A-F, with low mid & high freq setting |                    |                 | Page: 1 of 5 |

| FREQ<br>(MHz)                                       | LEVEL<br>(dBuV) | CABLE / ANT / PREAMP<br>(dB) (dB/m) (dB) | FINAL<br>(dBuV/m) | POL / HGT / AZ<br>(m) (DEG) | DELTA1<br>FCC Pt 24, -13dBm | DELTA2<br>N/A |
|-----------------------------------------------------|-----------------|------------------------------------------|-------------------|-----------------------------|-----------------------------|---------------|
| Measurements < 1GHz, RBW = 100kHz                   |                 |                                          |                   |                             |                             |               |
| Measurements > 1GHz, RBW = 1MHz                     |                 |                                          |                   |                             |                             |               |
| Fundamental = Band F low, 1890.2MHz                 |                 |                                          |                   |                             |                             |               |
| 45.23                                               | 40.1 Pk         | 0.5 / 15.7 / 27.8                        | 28.4              | V / 1.0 / 0.0               | -54.9                       | N/A           |
| 75.54                                               | 52.6 Pk         | 0.7 / 8.4 / 27.9                         | 33.8              | V / 1.0 / 0.0               | -49.5                       | N/A           |
| 86.14                                               | 50.5 Pk         | 0.8 / 7.3 / 27.9                         | 30.6              | V / 1.0 / 0.0               | -52.7                       | N/A           |
| 125.17                                              | 42.8 Pk         | 1.0 / 9.0 / 28.0                         | 24.8              | V / 1.0 / 0.0               | -58.5                       | N/A           |
| 208.90                                              | 45.1 Pk         | 1.3 / 10.8 / 27.7                        | 29.5              | V / 1.0 / 0.0               | -53.8                       | N/A           |
| 45.23                                               | 41.9 Pk         | 0.5 / 15.7 / 27.8                        | 30.3              | V / 1.0 / 90.0              | -53                         | N/A           |
| 143.05                                              | 42.6 Pk         | 1.0 / 9.6 / 27.9                         | 25.3              | V / 1.0 / 180.0             | -58                         | N/A           |
| 86.14                                               | 50.9 Pk         | 0.8 / 7.3 / 27.9                         | 31.0              | V / 1.0 / 270.0             | -52.3                       | N/A           |
| 125.17                                              | 44.4 Pk         | 1.0 / 9.0 / 28.0                         | 26.4              | H / 2.8 / 90.0              | -56.9                       | N/A           |
| Maximized                                           |                 |                                          |                   |                             |                             |               |
| 75.54                                               | 51.8 Pk         | 0.7 / 8.4 / 27.9                         | 33.0              | V / 1.0 / 345.0             | -50.3                       | N/A           |
| Fundamental = band F mid, 1895.5MHz                 |                 |                                          |                   |                             |                             |               |
| No new or higher emissions detected 30 MHz to 2 GHz |                 |                                          |                   |                             |                             |               |
| Fundamental = Band F high, 1894.8 MHz               |                 |                                          |                   |                             |                             |               |
| No new or higher emissions detected 30 MHz to 2 GHz |                 |                                          |                   |                             |                             |               |

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# Radiated Electromagnetic Emissions



|                  |                                                             |                    |                 |              |
|------------------|-------------------------------------------------------------|--------------------|-----------------|--------------|
| Test Report #:   | <b>7868 Run 1</b>                                           | Test Area:         | LTS 3m          |              |
| Test Method:     | FCC Part 24                                                 | Test Date:         | 11-Dec-2001     |              |
| EUT Model #:     | DGVI-370000RIU                                              | EUT Power:         | 110 VAC / 60 Hz |              |
| EUT Serial #:    | fcc1                                                        | Temperature:       | 23              | °C           |
| Manufacturer:    | ADC                                                         | Relative Humidity: | 19              | %            |
| EUT Description: | RF amplifier                                                | Air Pressure:      | 98.6            | kPa          |
| Notes:           | 6 bands to be tested, A-F, with low mid & high freq setting |                    |                 | Page: 2 of 5 |

| FREQ<br>(MHz)                                       | LEVEL<br>(dBuV) | CABLE / ANT / PREAMP<br>(dB) (dB/m) (dB) | FINAL<br>(dBuV/m) | POL / HGT / AZ<br>(m) (DEG) | DELTA1<br>FCC Pt 24, -13dBm | DELTA2<br>N/A |
|-----------------------------------------------------|-----------------|------------------------------------------|-------------------|-----------------------------|-----------------------------|---------------|
| Fundamental = Band E low, 1885.2 MHz                |                 |                                          |                   |                             |                             |               |
| No new or higher emissions detected 30 MHz to 2 GHz |                 |                                          |                   |                             |                             |               |
| Fundamental = Band E mid, 1887.5 MHz                |                 |                                          |                   |                             |                             |               |
| No new or higher emissions detected 30 MHz to 2 GHz |                 |                                          |                   |                             |                             |               |
| Fundamental = Band E high, 1889.8 MHz               |                 |                                          |                   |                             |                             |               |
| No new or higher emissions detected 30 MHz to 2 GHz |                 |                                          |                   |                             |                             |               |
| Fundamental = Band D low, 1865.2 MHz                |                 |                                          |                   |                             |                             |               |
| No new or higher emissions detected 30 MHz to 2 GHz |                 |                                          |                   |                             |                             |               |
| Fundamental = Band D mid, 1867.5 MHz                |                 |                                          |                   |                             |                             |               |
| No new or higher emissions detected 30 MHz to 2 GHz |                 |                                          |                   |                             |                             |               |
| Fundamental = Band D high, 1869.8 MHz               |                 |                                          |                   |                             |                             |               |
| No new or higher emissions detected 30 MHz to 2 GHz |                 |                                          |                   |                             |                             |               |
| Fundamental = Band C low, 1895.2 MHz                |                 |                                          |                   |                             |                             |               |
| No new or higher emissions detected 30 MHz to 2 GHz |                 |                                          |                   |                             |                             |               |
| Fundamental = Band C mid, 1902.5 MHz                |                 |                                          |                   |                             |                             |               |
| No new or higher emissions detected 30 MHz to 2 GHz |                 |                                          |                   |                             |                             |               |
| Fundamental = Band C high, 1909.8 MHz               |                 |                                          |                   |                             |                             |               |
| No new or higher emissions detected 30 MHz to 2 GHz |                 |                                          |                   |                             |                             |               |
| Fundamental = Band B low, 1870.2 MHz                |                 |                                          |                   |                             |                             |               |
| No new or higher emissions detected 30 MHz to 2 GHz |                 |                                          |                   |                             |                             |               |
| Fundamental = Band B mid, 1877.5 MHz                |                 |                                          |                   |                             |                             |               |
| No new or higher emissions detected 30 MHz to 2 GHz |                 |                                          |                   |                             |                             |               |
| Fundamental = Band B high, 1884.8 MHz               |                 |                                          |                   |                             |                             |               |
| No new or higher emissions detected 30 MHz to 2 GHz |                 |                                          |                   |                             |                             |               |
| Fundamental = Band A low, 1850.2 MHz                |                 |                                          |                   |                             |                             |               |
| No new or higher emissions detected 30 MHz to 2 GHz |                 |                                          |                   |                             |                             |               |
| Fundamental = Band A mid, 1857.5 MHz                |                 |                                          |                   |                             |                             |               |

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# Radiated Electromagnetic Emissions



|                  |                                                             |            |                 |                         |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|
| Test Report #:   | <b>7868 Run 1</b>                                           | Test Area: | LTS 3m          |                         |
| Test Method:     | FCC Part 24                                                 | Test Date: | 11-Dec-2001     |                         |
| EUT Model #:     | DGVI-370000RIU                                              | EUT Power: | 110 VAC / 60 Hz |                         |
| EUT Serial #:    | fcc1                                                        |            |                 | Temperature: 23 °C      |
| Manufacturer:    | ADC                                                         |            |                 | Relative Humidity: 19 % |
| EUT Description: | RF amplifier                                                |            |                 | Air Pressure: 98.6 kPa  |
| Notes:           | 6 bands to be tested, A-F, with low mid & high freq setting |            |                 | Page: 3 of 5            |

| FREQ<br>(MHz)                                                    | LEVEL<br>(dBuV) | CABLE / ANT / PREAMP<br>(dB) (dB/m) (dB) | FINAL<br>(dBuV/m) | POL / HGT / AZ<br>(m) (DEG) | DELTA1<br>FCC Pt 24, -13dBm | DELTA2<br>N/A |
|------------------------------------------------------------------|-----------------|------------------------------------------|-------------------|-----------------------------|-----------------------------|---------------|
| No new or higher emissions detected 30 MHz to 2 GHz              |                 |                                          |                   |                             |                             |               |
| Fundamental = band A high, 1864.8 MHz                            |                 |                                          |                   |                             |                             |               |
| No new or higher emissions detected 30 MHz to 2 GHz              |                 |                                          |                   |                             |                             |               |
| End scan 30 MHz to 2 GHz                                         |                 |                                          |                   |                             |                             |               |
| Antenna: LTS Horn SN...3275                                      |                 |                                          |                   |                             |                             |               |
| No significant emissions detected 2 GHz to 4 GHz                 |                 |                                          |                   |                             |                             |               |
| All bands (A - F) scanned at low, mid, & high frequency settings |                 |                                          |                   |                             |                             |               |
| PreAmp: #2477Preamp(4-8GHZ)                                      |                 |                                          |                   |                             |                             |               |
| No significant emissions detected 4 GHz to 8 GHz                 |                 |                                          |                   |                             |                             |               |
| All bands (A - F) scanned at low, mid, & high frequency settings |                 |                                          |                   |                             |                             |               |
| PreAmp: #2478 Preamp(8-18G)                                      |                 |                                          |                   |                             |                             |               |
| No significant emissions detected 8 GHz to 19.1 GHz              |                 |                                          |                   |                             |                             |               |
| All bands (A - F) scanned at low, mid, & high frequency settings |                 |                                          |                   |                             |                             |               |
| Band End Measurements                                            |                 |                                          |                   |                             |                             |               |
| Maximized                                                        |                 |                                          |                   |                             |                             |               |
| Band F, low end, fundamental = 1890.2 MHz                        |                 |                                          |                   |                             |                             |               |
| 1890.00                                                          | 33.8 Pk         | 4.5 / 28.8 / 26.9                        | 40.1              | V / 1.0 / 345.0             | -43.2                       | N/A           |
| Band F, high end, fundamental = 1894.8 MHz                       |                 |                                          |                   |                             |                             |               |

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# Radiated Electromagnetic Emissions



|                  |                                                             |            |                 |                    |          |
|------------------|-------------------------------------------------------------|------------|-----------------|--------------------|----------|
| Test Report #:   | <b>7868 Run 1</b>                                           | Test Area: | LTS 3m          |                    |          |
| Test Method:     | FCC Part 24                                                 | Test Date: | 11-Dec-2001     |                    |          |
| EUT Model #:     | DGVI-370000RIU                                              | EUT Power: | 110 VAC / 60 Hz |                    |          |
| EUT Serial #:    | fcc1                                                        |            |                 | Temperature:       | 23 °C    |
| Manufacturer:    | ADC                                                         |            |                 | Relative Humidity: | 19 %     |
| EUT Description: | RF amplifier                                                |            |                 | Air Pressure:      | 98.6 kPa |
| Notes:           | 6 bands to be tested, A-F, with low mid & high freq setting |            |                 | Page:              | 4 of 5   |

| FREQ<br>(MHz)                                                                               | LEVEL<br>(dBuV) | CABLE / ANT / PREAMP<br>(dB) (dB/m) (dB) | FINAL<br>(dBuV/m) | POL / HGT / AZ<br>(m) (DEG) | DELTA1<br>FCC Pt 24, -13dBm | DELTA2<br>N/A |
|---------------------------------------------------------------------------------------------|-----------------|------------------------------------------|-------------------|-----------------------------|-----------------------------|---------------|
| 1895.00                                                                                     | 33.9 Pk         | 4.5 / 28.7 / 26.9                        | 40.2              | V / 1.0 / 345.0             | -43.1                       | N/A           |
| Band E, low end, fundamental = 1885.2 MHz                                                   |                 |                                          |                   |                             |                             |               |
| 1885.00                                                                                     | 34.7 Pk         | 4.5 / 28.8 / 27.0                        | 41.0              | V / 1.0 / 345.0             | -42.3                       | N/A           |
| Band E, high end, fundamental = 1889.8 MHz                                                  |                 |                                          |                   |                             |                             |               |
| 1890.00                                                                                     | 33.8 Pk         | 4.5 / 28.8 / 26.9                        | 40.1              | V / 1.0 / 345.0             | -43.2                       | N/A           |
| Band D, low end, fundamental = 1865.2 MHz                                                   |                 |                                          |                   |                             |                             |               |
| 1865.00                                                                                     | 33.2 Pk         | 4.5 / 28.4 / 27.0                        | 39.0              | V / 1.0 / 345.0             | -44.3                       | N/A           |
| Band D, high end, fundamental = 1869.8 MHz                                                  |                 |                                          |                   |                             |                             |               |
| 1870.00                                                                                     | 33.9 Pk         | 4.5 / 28.4 / 27.0                        | 39.7              | V / 1.0 / 345.0             | -43.6                       | N/A           |
| Band C, low end, fundamental = 1895.2 MHz                                                   |                 |                                          |                   |                             |                             |               |
| 1895.00                                                                                     | 33.5 Pk         | 4.5 / 28.7 / 26.9                        | 39.7              | V / 1.0 / 345.0             | -43.6                       | N/A           |
| Band C, high end, fundamental = 1909.8 MHz                                                  |                 |                                          |                   |                             |                             |               |
| 1910.00                                                                                     | 33.4 Pk         | 4.5 / 28.4 / 26.9                        | 39.4              | V / 1.0 / 345.0             | -43.9                       | N/A           |
| Band B, low end, fundamental = 1870.2 MHz                                                   |                 |                                          |                   |                             |                             |               |
| 1870.00                                                                                     | 33.0 Pk         | 4.5 / 28.4 / 27.0                        | 38.9              | V / 1.0 / 345.0             | -44.4                       | N/A           |
| Band B, high end, fundamental = 1884.8 MHz                                                  |                 |                                          |                   |                             |                             |               |
| 1885.00                                                                                     | 34.1 Pk         | 4.5 / 28.8 / 27.0                        | 40.5              | V / 1.0 / 345.0             | -42.8                       | N/A           |
| Band A, low end, fundamental = 1850.2 MHz                                                   |                 |                                          |                   |                             |                             |               |
| 1850.00                                                                                     | 33.0 Pk         | 4.5 / 28.3 / 27.1                        | 38.6              | V / 1.0 / 345.0             | -44.7                       | N/A           |
| Band A, high end, fundamental = 1864.8 MHz                                                  |                 |                                          |                   |                             |                             |               |
| 1865.00                                                                                     | 33.1 Pk         | 4.5 / 28.4 / 27.0                        | 38.9              | V / 1.0 / 345.0             | -44.4                       | N/A           |
| All band end measurements = noise floor                                                     |                 |                                          |                   |                             |                             |               |
| Substitution method used to determine the energy level of worst case emission               |                 |                                          |                   |                             |                             |               |
| 75.54 MHz                                                                                   |                 |                                          |                   |                             |                             |               |
| Sig gen level (-51.0dBm) - cable loss (1.6dB) - transmit antenna correction (9.9dB) = -62.5 |                 |                                          |                   |                             |                             |               |
| -62.5dBm is 49.5dB below limit of -13dBm                                                    |                 |                                          |                   |                             |                             |               |
| End scan 30 MHz to 19.1 GHz                                                                 |                 |                                          |                   |                             |                             |               |

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# Radiated Electromagnetic Emissions



|                  |                                                             |                    |                 |              |
|------------------|-------------------------------------------------------------|--------------------|-----------------|--------------|
| Test Report #:   | <b>7868 Run 1</b>                                           | Test Area:         | LTS 3m          |              |
| Test Method:     | FCC Part 24                                                 | Test Date:         | 11-Dec-2001     |              |
| EUT Model #:     | DGVI-370000RIU                                              | EUT Power:         | 110 VAC / 60 Hz |              |
| EUT Serial #:    | fcc1                                                        | Temperature:       | 23              | °C           |
| Manufacturer:    | ADC                                                         | Relative Humidity: | 19              | %            |
| EUT Description: | RF amplifier                                                | Air Pressure:      | 98.6            | kPa          |
| Notes:           | 6 bands to be tested, A-F, with low mid & high freq setting |                    |                 | Page: 5 of 5 |

| FREQ<br>(MHz) | LEVEL<br>(dBuV) | CABLE / ANT / PREAMP<br>(dB) (dB/m) (dB) | FINAL<br>(dBuV/m) | POL / HGT / AZ<br>(m) (DEG) | DELTA1<br>FCC Pt 24, -13dBm | DELTA2<br>N/A |
|---------------|-----------------|------------------------------------------|-------------------|-----------------------------|-----------------------------|---------------|
|---------------|-----------------|------------------------------------------|-------------------|-----------------------------|-----------------------------|---------------|

| ***** MEASUREMENT SUMMARY ***** |         |                   |      |                 |       |     |
|---------------------------------|---------|-------------------|------|-----------------|-------|-----|
| 1885.00                         | 34.7 Pk | 4.5 / 28.8 / 27.0 | 41.0 | V / 1.0 / 345.0 | -42.3 | N/A |
| 1895.00                         | 33.9 Pk | 4.5 / 28.7 / 26.9 | 40.2 | V / 1.0 / 345.0 | -43.1 | N/A |
| 1890.00                         | 33.8 Pk | 4.5 / 28.8 / 26.9 | 40.1 | V / 1.0 / 345.0 | -43.2 | N/A |
| 1870.00                         | 33.9 Pk | 4.5 / 28.4 / 27.0 | 39.7 | V / 1.0 / 345.0 | -43.6 | N/A |
| 1910.00                         | 33.4 Pk | 4.5 / 28.4 / 26.9 | 39.4 | V / 1.0 / 345.0 | -43.9 | N/A |
| 1865.00                         | 33.2 Pk | 4.5 / 28.4 / 27.0 | 39.0 | V / 1.0 / 345.0 | -44.3 | N/A |
| 1850.00                         | 33.0 Pk | 4.5 / 28.3 / 27.1 | 38.6 | V / 1.0 / 345.0 | -44.7 | N/A |
| 75.54                           | 52.6 Pk | 0.7 / 8.4 / 27.9  | 33.8 | V / 1.0 / 0.0   | -49.5 | N/A |
| 86.14                           | 50.9 Pk | 0.8 / 7.3 / 27.9  | 31.0 | V / 1.0 / 270.0 | -52.3 | N/A |
| 45.23                           | 41.9 Pk | 0.5 / 15.7 / 27.8 | 30.3 | V / 1.0 / 90.0  | -53   | N/A |
| 208.90                          | 45.1 Pk | 1.3 / 10.8 / 27.7 | 29.5 | V / 1.0 / 0.0   | -53.8 | N/A |
| 125.17                          | 44.4 Pk | 1.0 / 9.0 / 28.0  | 26.4 | H / 2.8 / 90.0  | -56.9 | N/A |
| 143.05                          | 42.6 Pk | 1.0 / 9.6 / 27.9  | 25.3 | V / 1.0 / 180.0 | -58   | N/A |
|                                 |         |                   |      |                 |       |     |

Tested by: G Jakubowski

Printed

Signature

Reviewed by: JTS

Printed

Signature

**Inter-Modulation Test for ADC Inc. Digivance 1900 MHz RIU  
Models DGVI-310000RIU, DGVI-320000RIU, DGVI-330000RIU, DGVI-  
340000RIU, DGVI-350000RIU, and DGVI-360000RIU.**

The intermodulation product test was performed for each bandwidth setting of the EUT. Two tests were performed with each modulation type. Test 1 was with two signals input into the EUT at lower end channels. Test 2 was with two signals one at a lower end channel and one at a higher end channel. The modulation types tested were CDMA, TDMA, and FM (1 kHz @ 8 kHz deviation). An investigation was made from 30 MHz to the 10<sup>th</sup> harmonic of the highest fundamental frequency (~20 GHz).

**Results:**

Pass (see plots)

IMD

BAND A

FM

Close

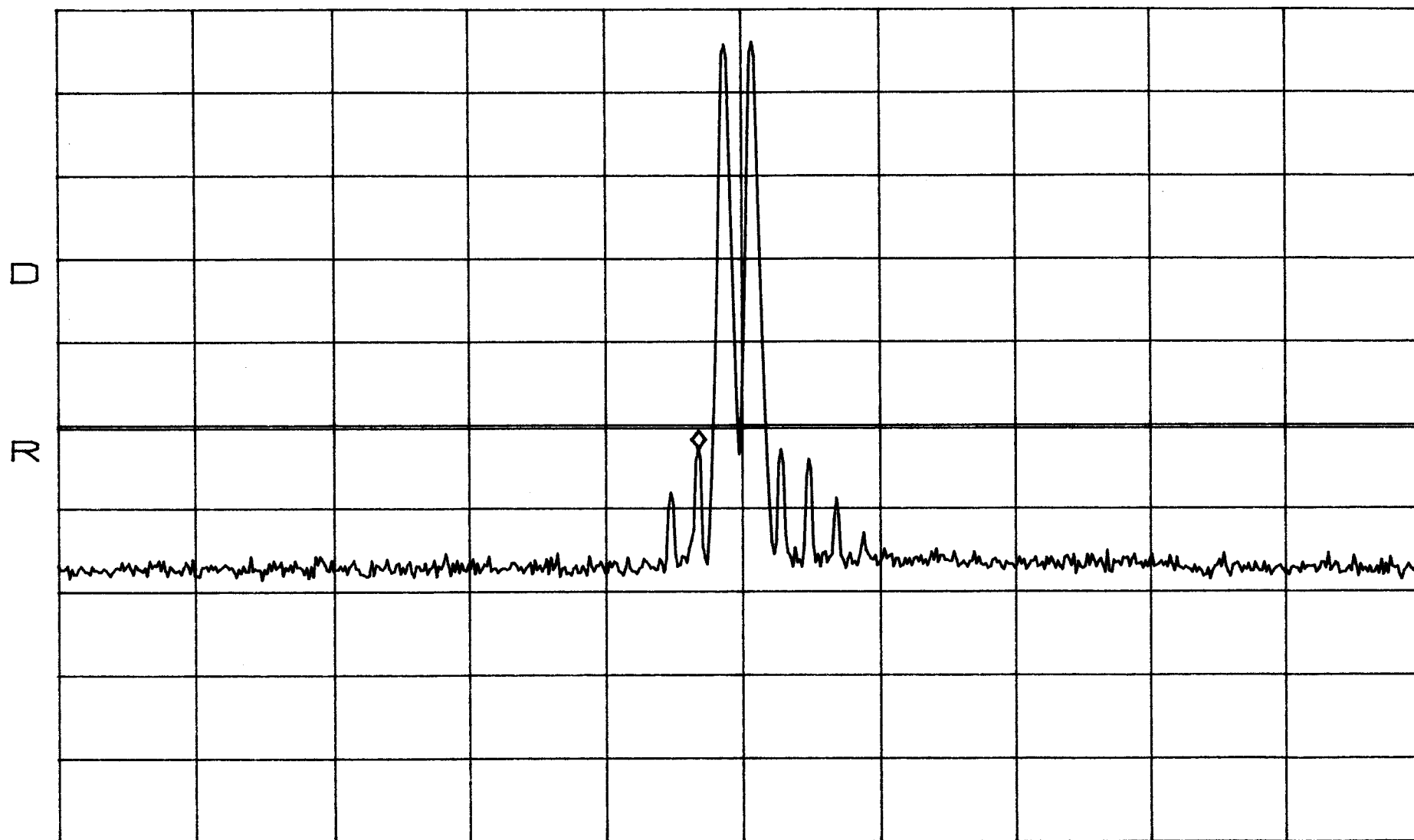
\*ATTEN 10dB

MKR -15.17dBm

RL 37.5dBm

10dB/

1.84917GHz



CENTER 1.85075GHz

SPAN 50.00MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms

IMD

BANDA

FM

close

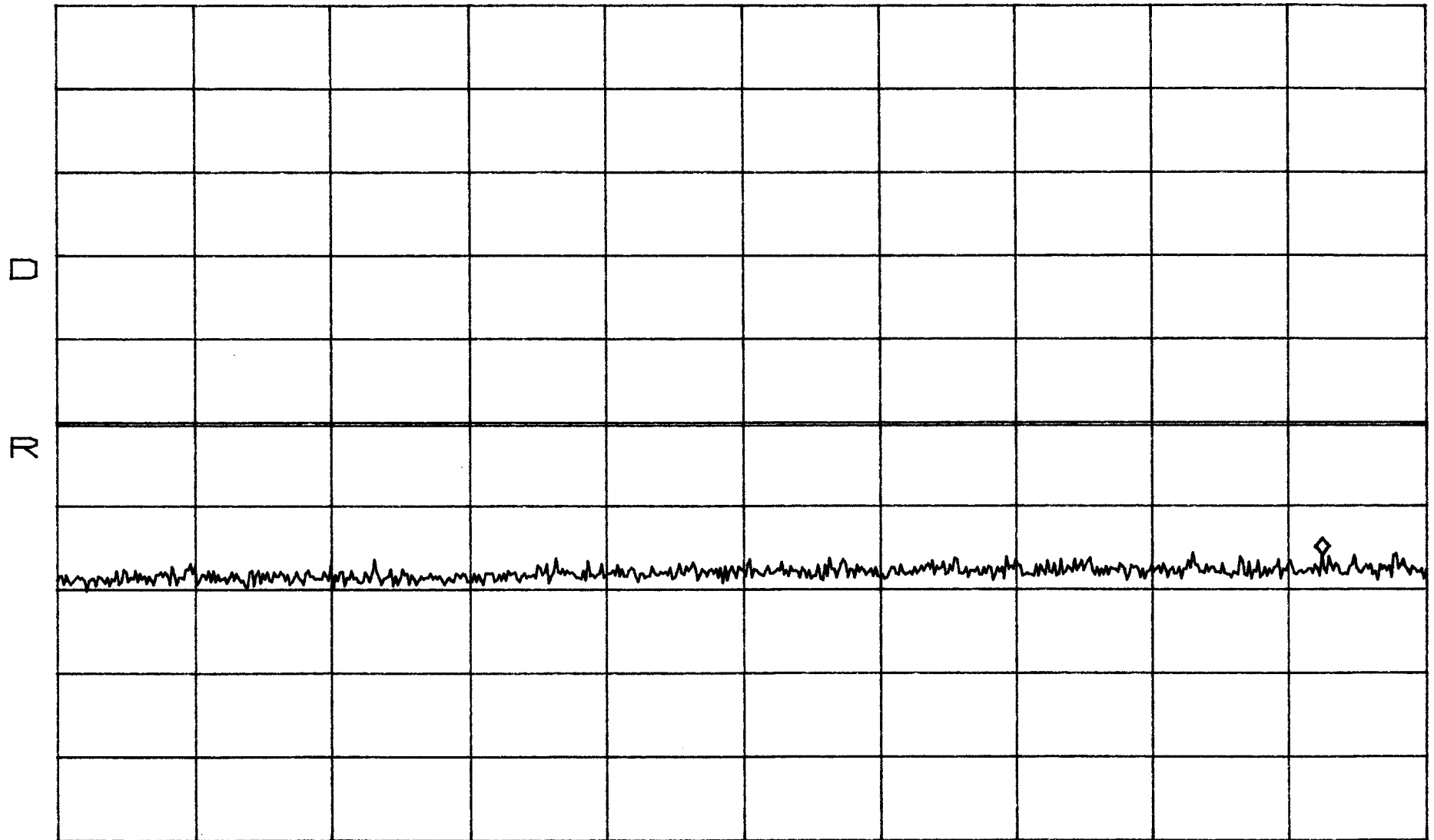
\*ATTEN 10dB

MKR -28.33dBm

RL 37.5dBm

10dB/

927.3MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

IMD

BAND A

FM

close

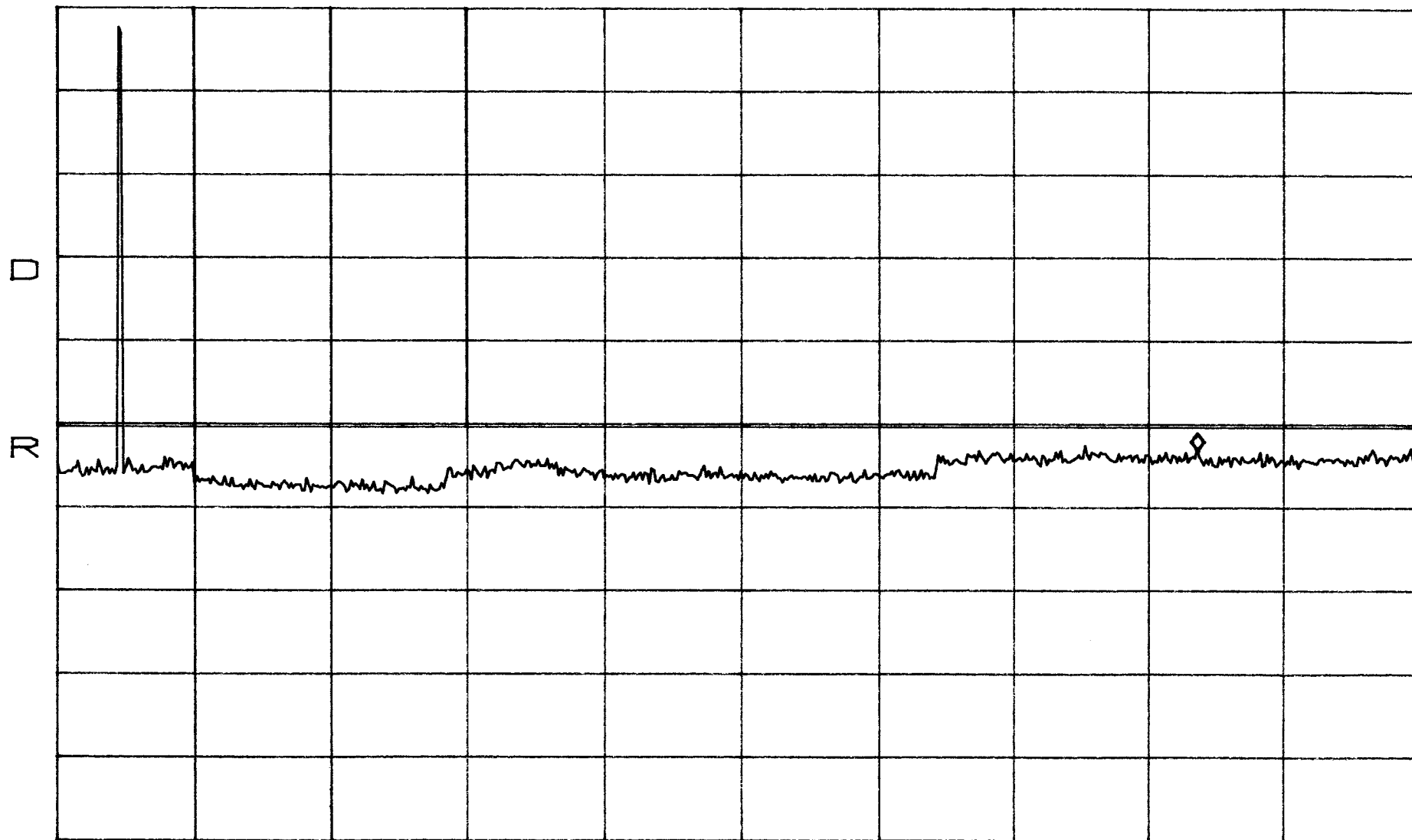
\*ATTEN 10dB

MKR -15.50dBm

RL 37.5dBm

10dB/

16.90GHz



CENTER 10.50GHz

SPAN 19.00GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 380ms

IMD  
Apert

BAND A

FM

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -28.17dBm  
1.87092GHz



CENTER 1.85750GHz

SPAN 50.00MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms

IMD  
Apert

BAND A

FM

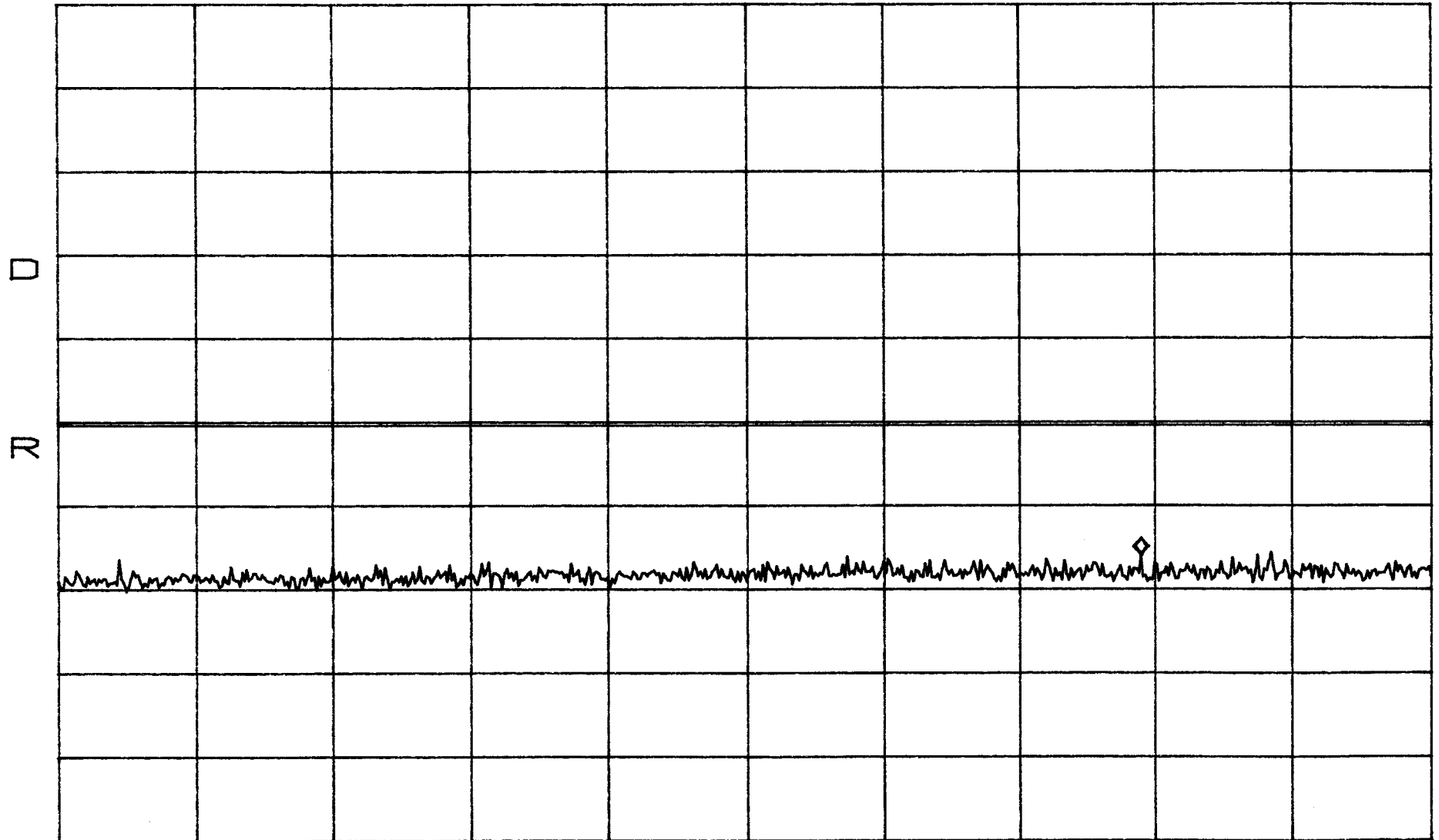
\*ATTEN 10dB

MKR -28.33dBm

RL 37.5dBm

10dB/

796.3MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

IMD  
Apert

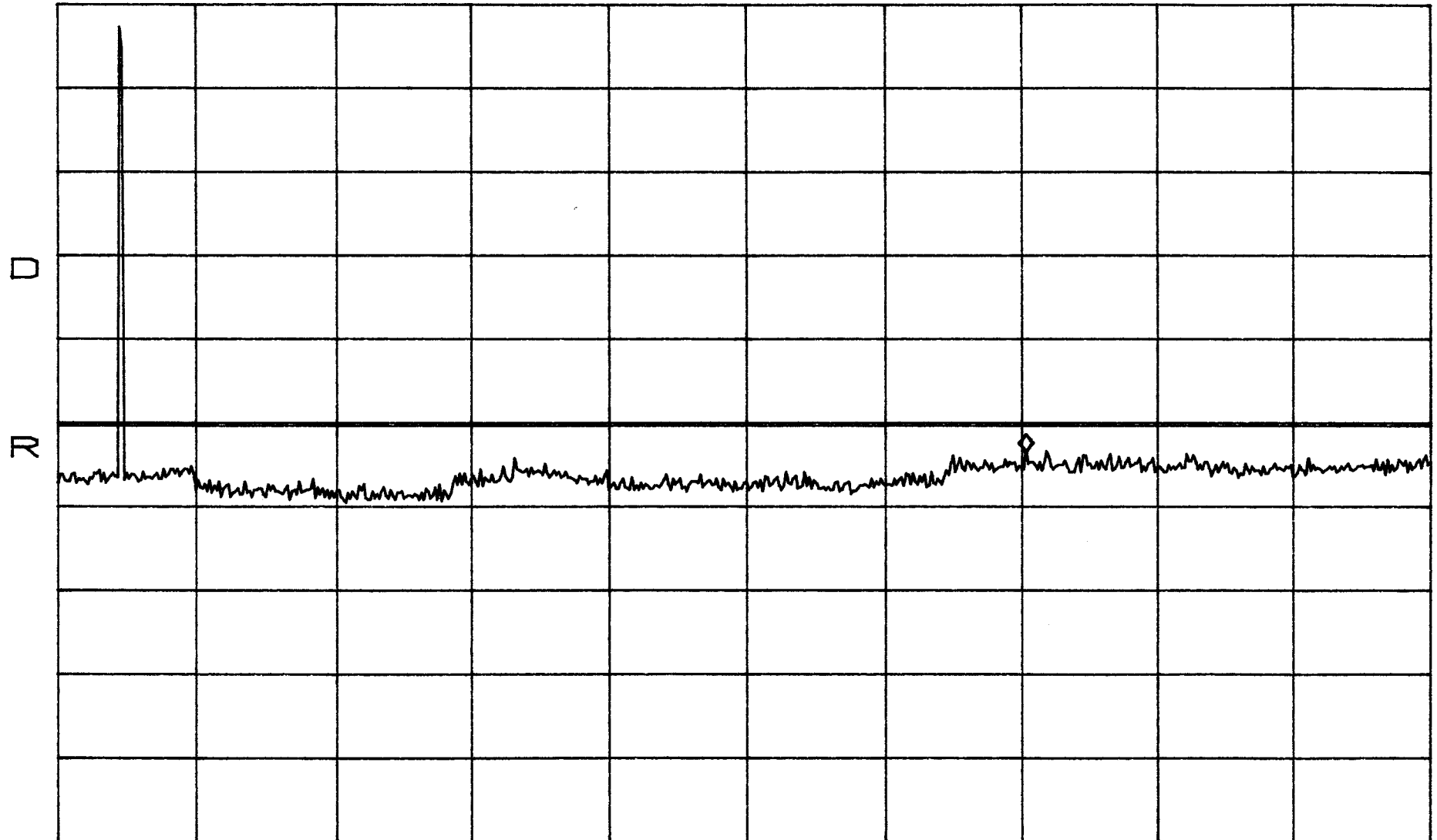
BAND A

FM

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -15.83dBm  
14.36GHz



START 1.00GHz

STOP 20.00GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 380ms

IMD  
Close

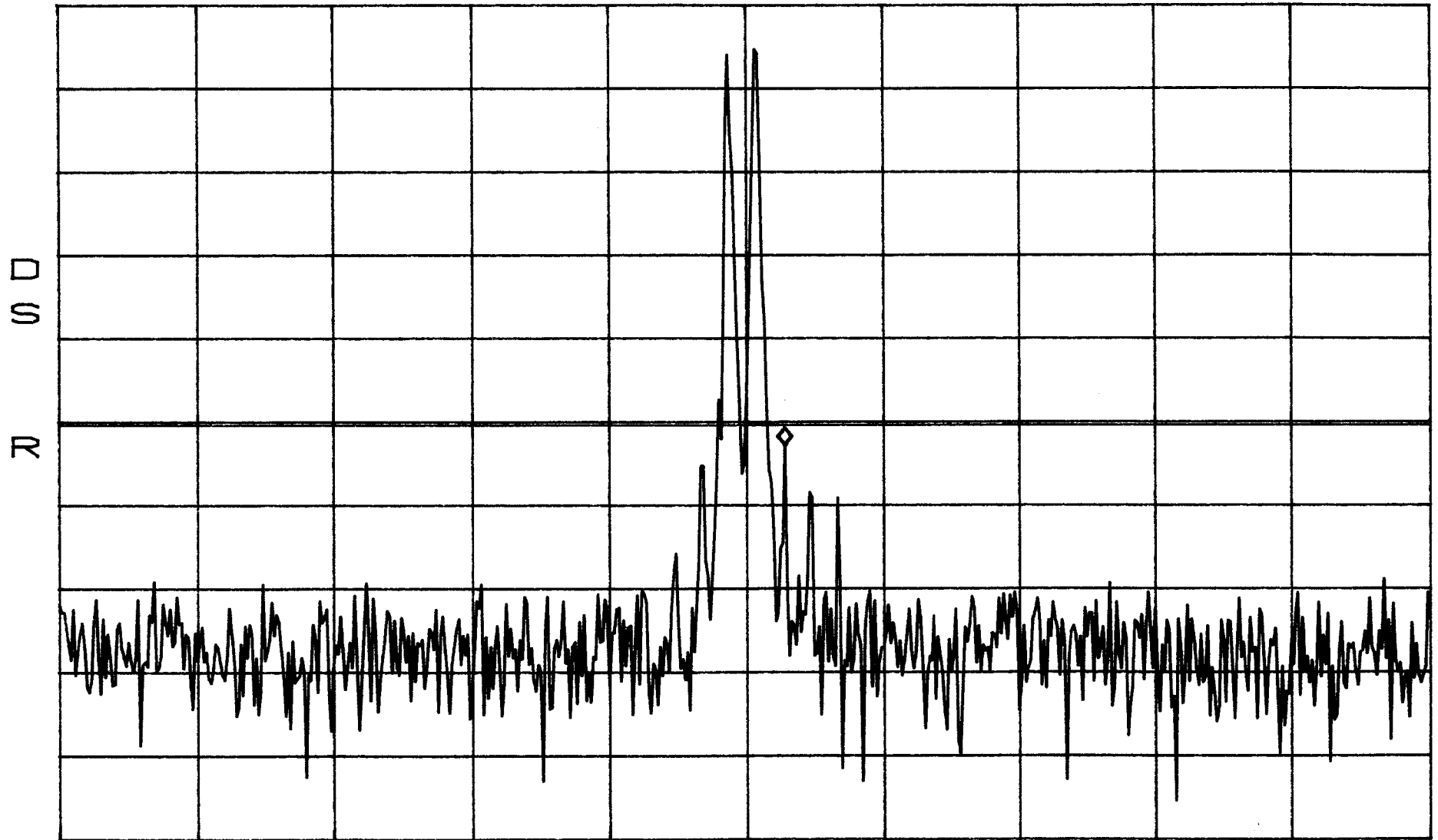
BAND A

TDMA

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -15.17dBm  
1.85217GHz



CENTER 1.85075GHz

SPAN 50.00MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms

IMD

BAND A

TDMA

Close

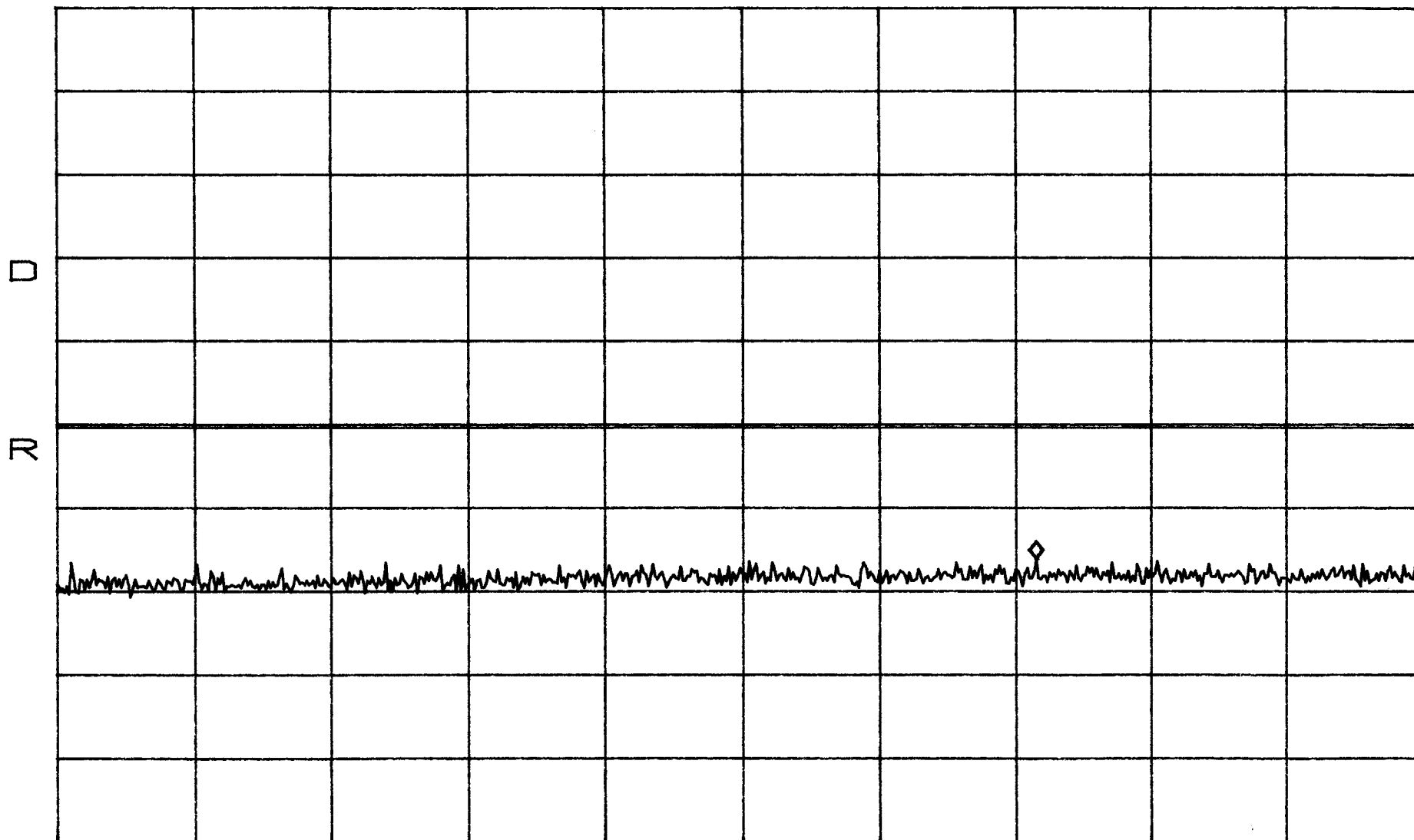
\*ATTEN 10dB

MKR -28.50dBm

RL 37.5dBm

10dB/

723.6MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

IMD  
Close

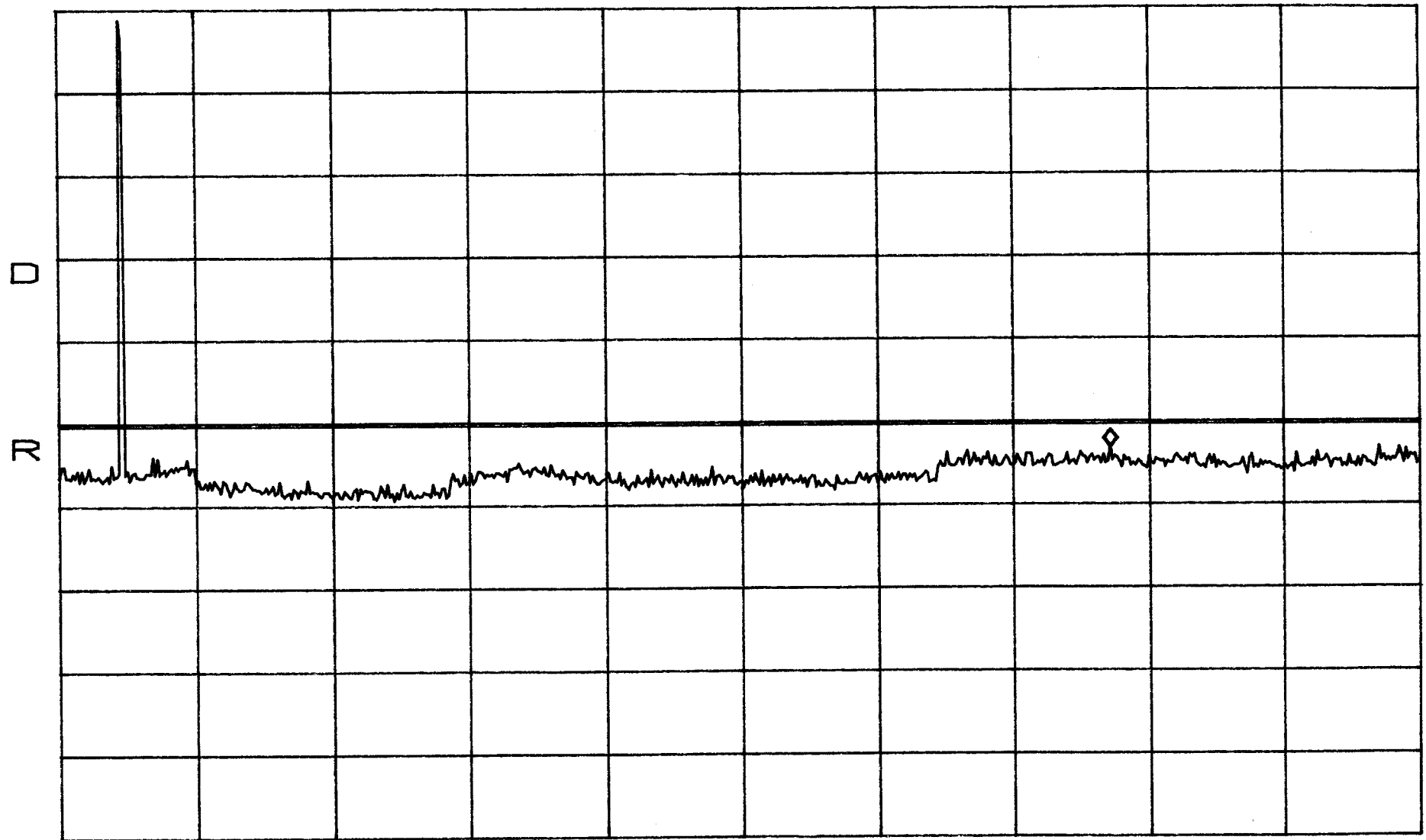
BAND A

TDMA

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -15.50dBm  
15.66GHz



START 1.00GHz

STOP 20.00GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 380ms

IMD  
Apert

BAND A

TDMA

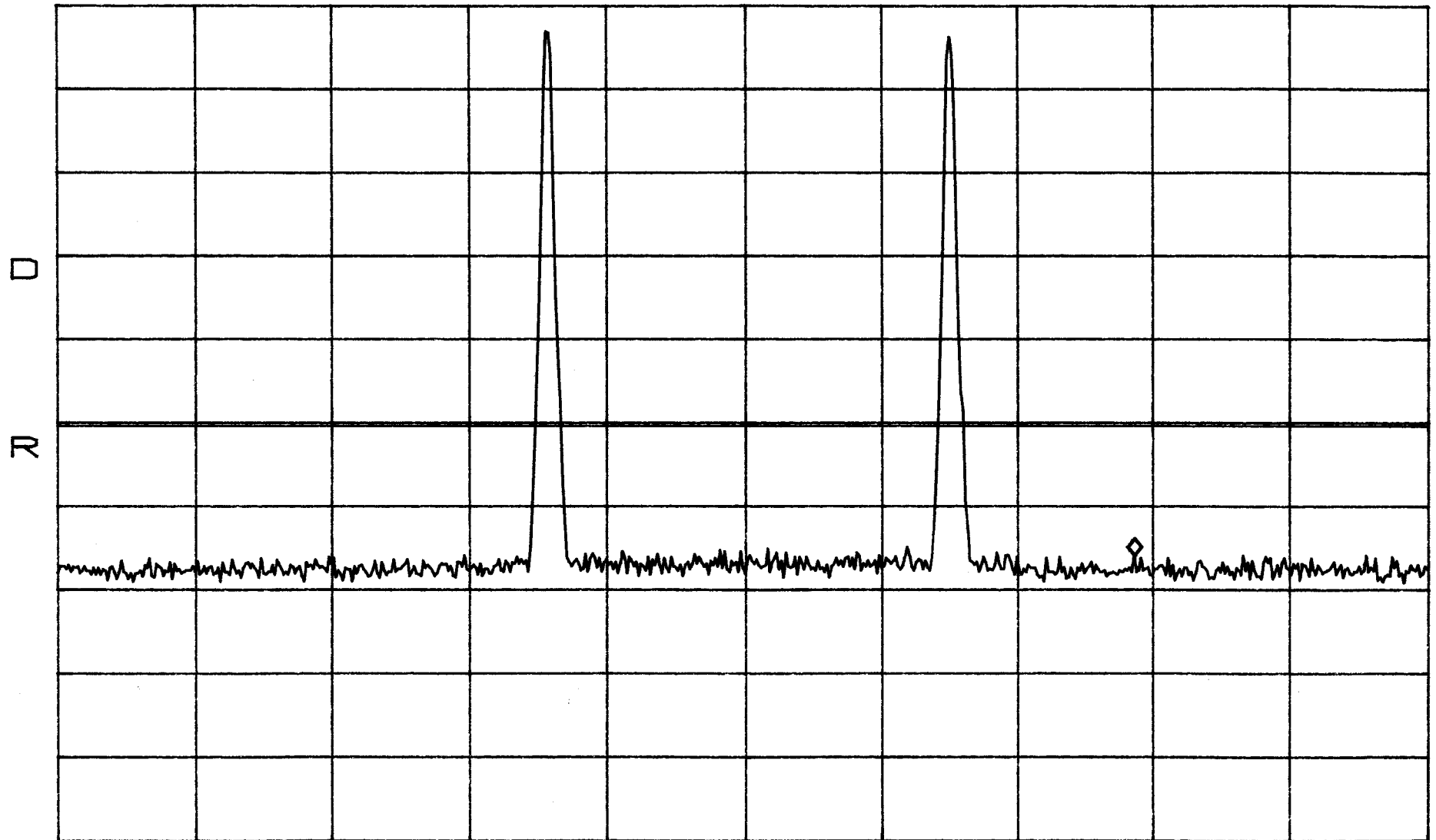
\*ATTEN 10dB

MKR -28.33dBm

RL 37.5dBm

10dB/

1.87158GHz



CENTER 1.85725GHz

SPAN 50.00MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms

IMD  
Apert

BAND A

TDMA

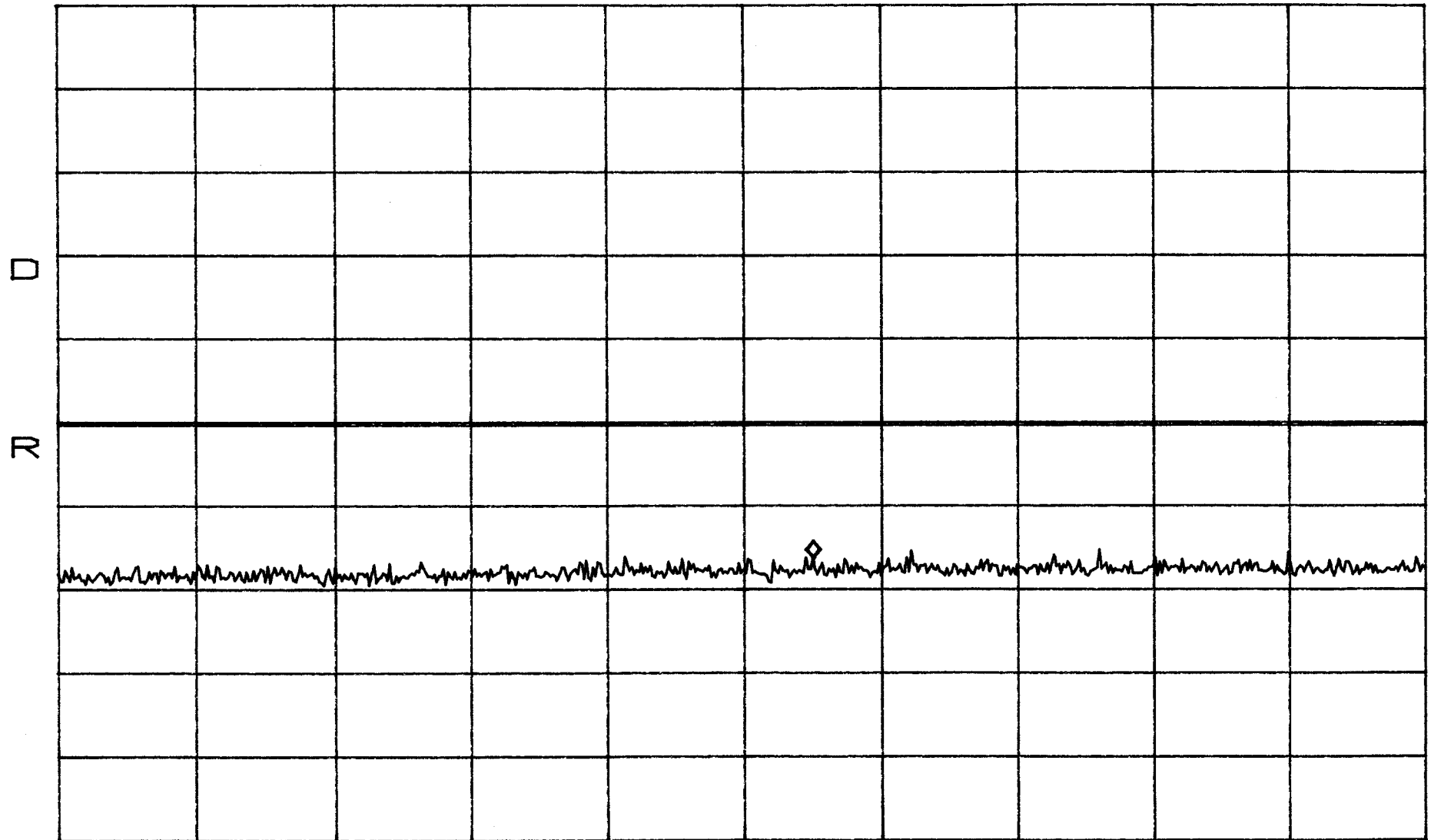
\*ATTEN 10dB

RL 37.5dBm

10dB/

MKR -28.67dBm

563.5MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

IMD  
Apert

BAND A

TDMA

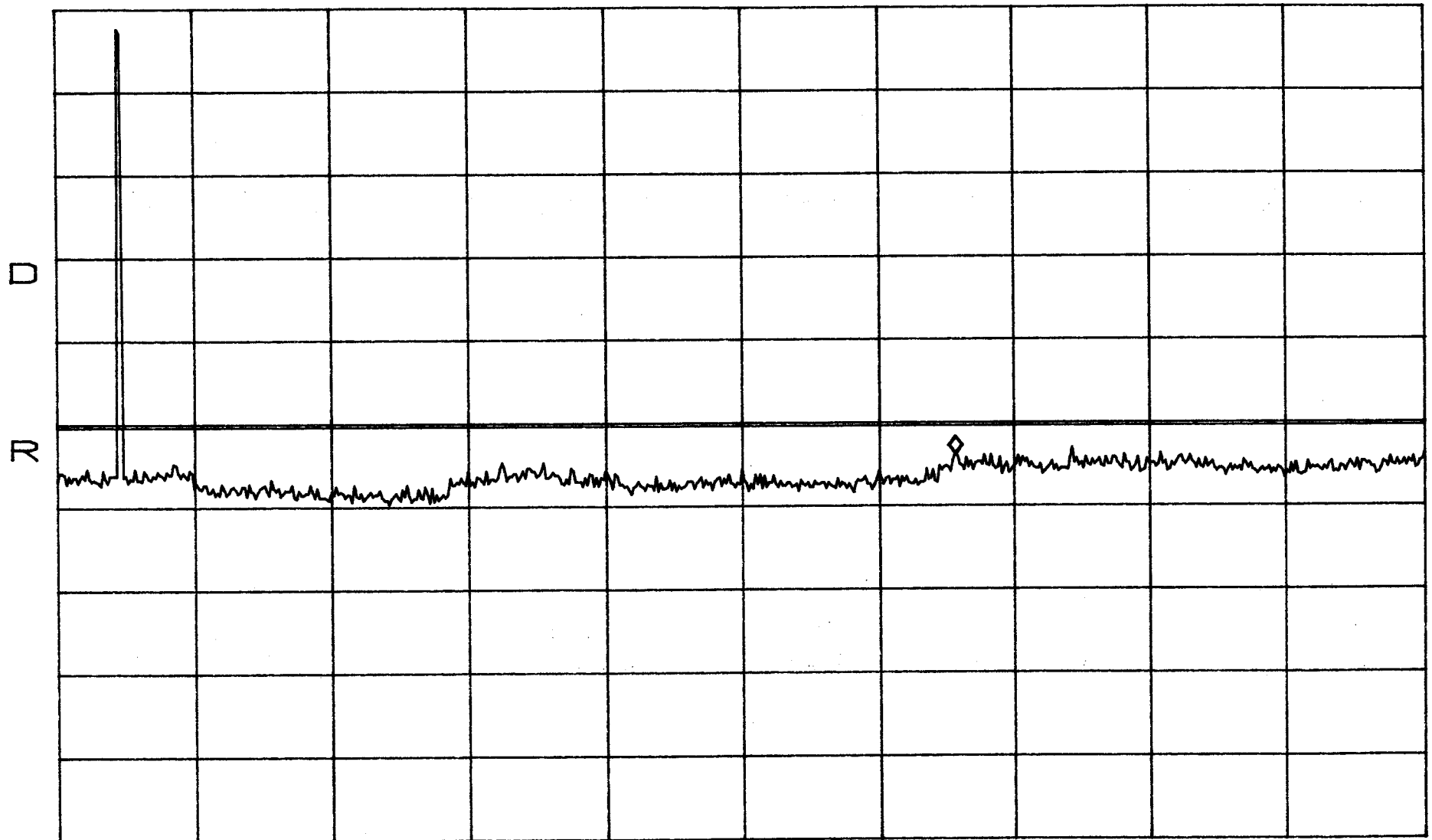
\*ATTEN 10dB

MKR -16.17dBm

RL 37.5dBm

10dB/

13.48GHz



START 1.00GHz

STOP 20.00GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 380ms

IMD  
Close

BAND A

CDMA

ATTEN 10dB  
RL 34.5dBm

VAVG 100  
10dB/

MKR -33.17dBm  
1.85483GHz



CENTER 1.85200GHz  
\*RBW 100kHz VBW 100kHz

SPAN 50.00MHz  
SWP 50ms

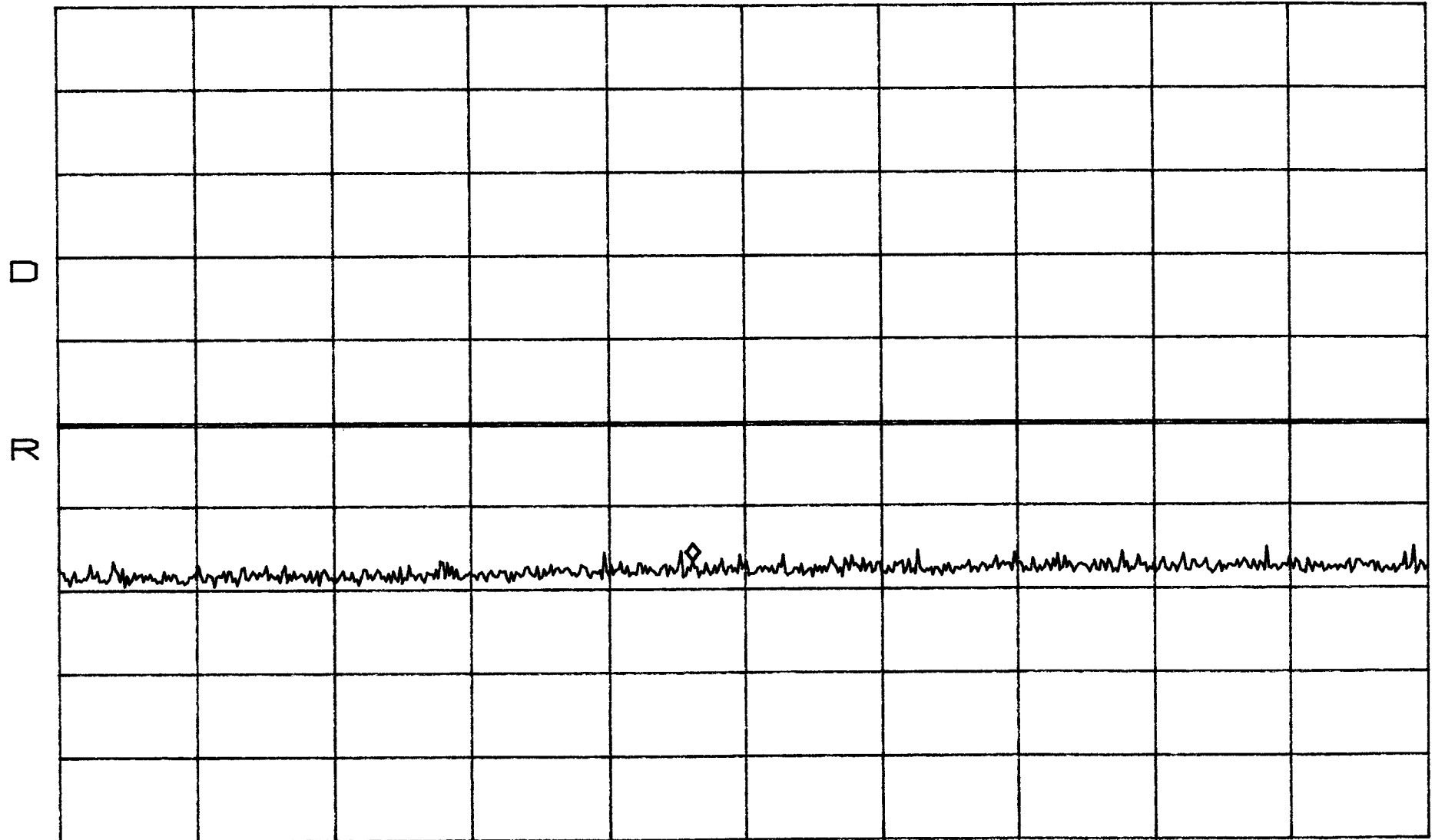
IMD  
Close

BAND A CDMA

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -29.00dBm  
477.8MHz



\*RBW 100kHz

VBW 100kHz

SWP 250ms

IMD  
Close

BAND A CDMA

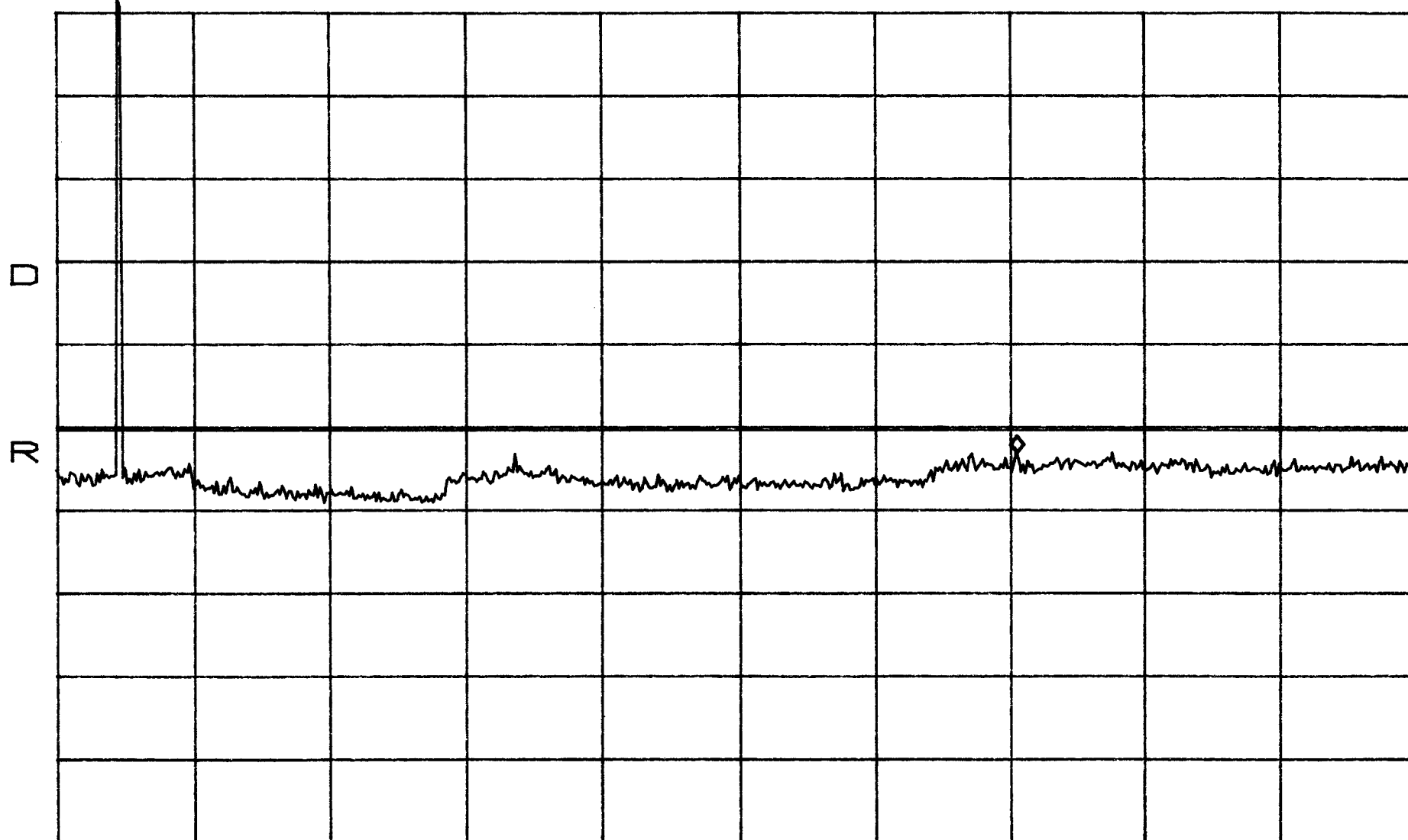
\*ATTEN 10dB

MKR -15.50dBm

RL 37.5dBm

10dB/

14.40GHz



START 1.00GHz

STOP 20.00GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 380ms

IMD  
Apert

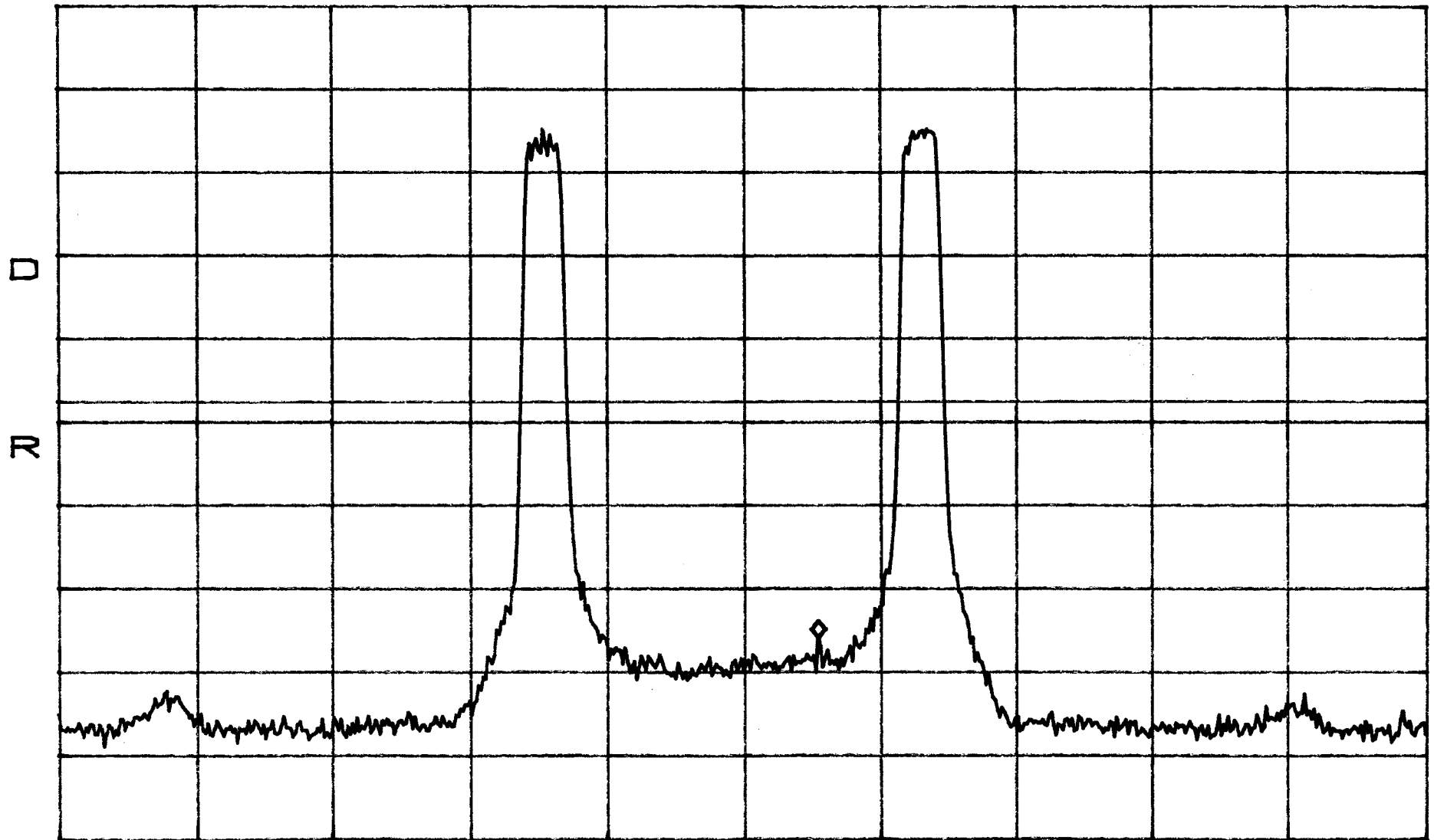
BAND A

CDMA

ATTEN 10dB  
RL 34.5dBm

VAVG 100  
10dB/

MKR -41.33dBm  
1.86050GHz



CENTER 1.85775GHz  
\*RBW 100kHz VBW 100kHz

SPAN 50.00MHz  
SWP 50ms

IMD  
Apert

BAND A

CDMA

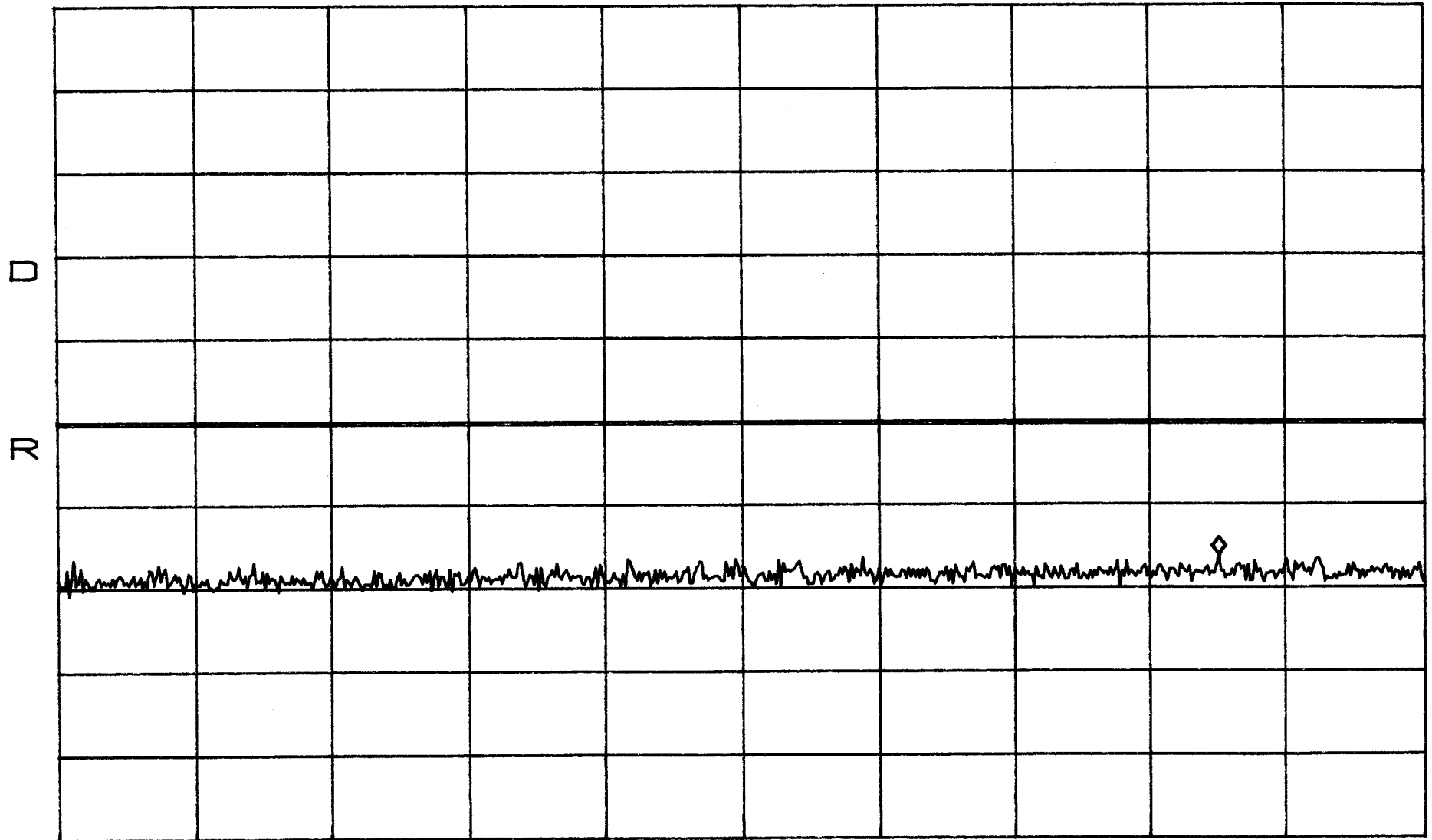
\*ATTEN 10dB

MKR -28.50dBm

RL 37.5dBm

10dB/

856.1MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

IMD  
Apert

BAND A CDMA

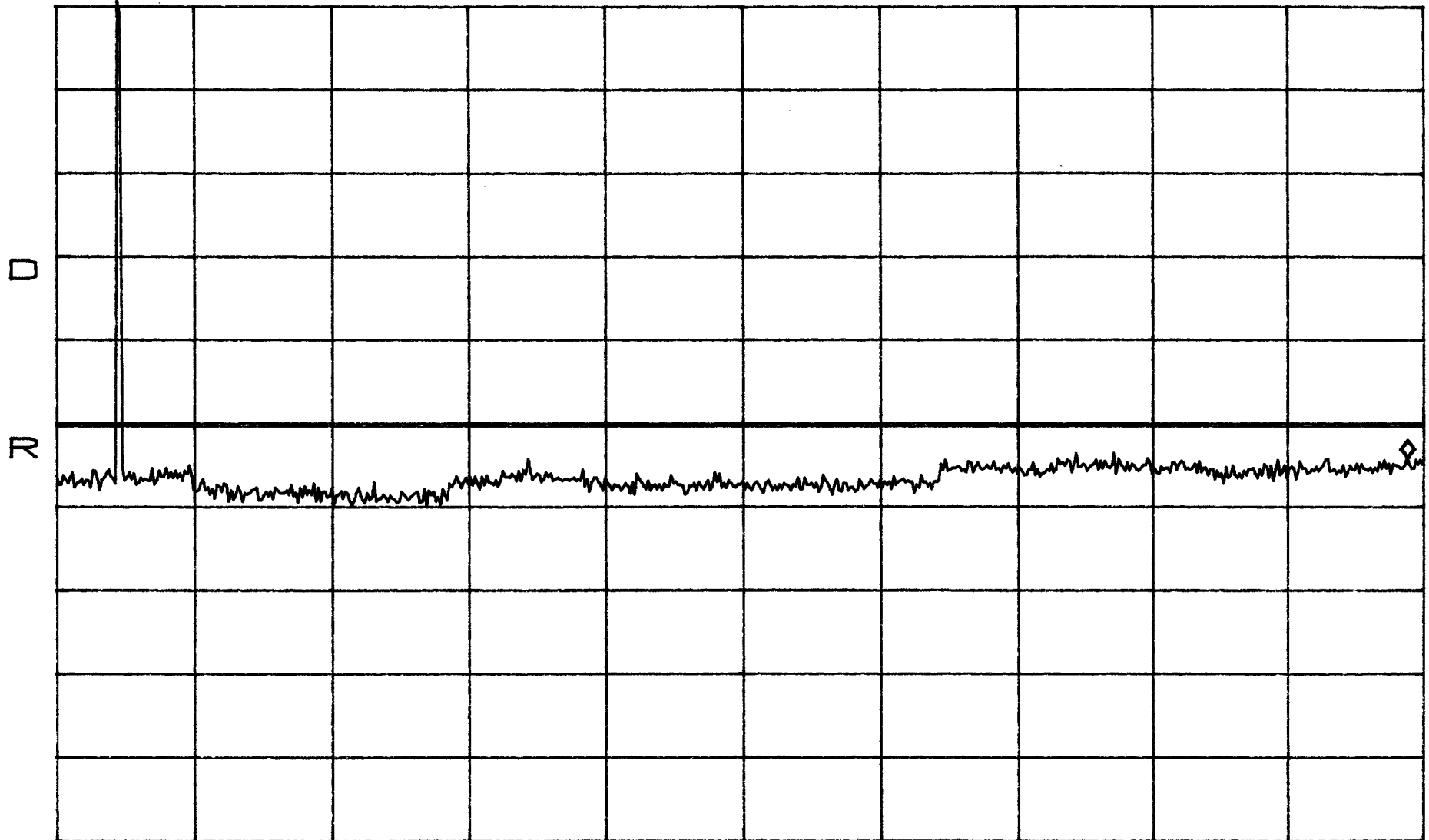
\*ATTEN 10dB

MKR -16.50dBm

RL 37.5dBm

10dB/

19.78GHz



START 1.00GHz

STOP 20.00GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 380ms

IMD

BAND B

FM

close

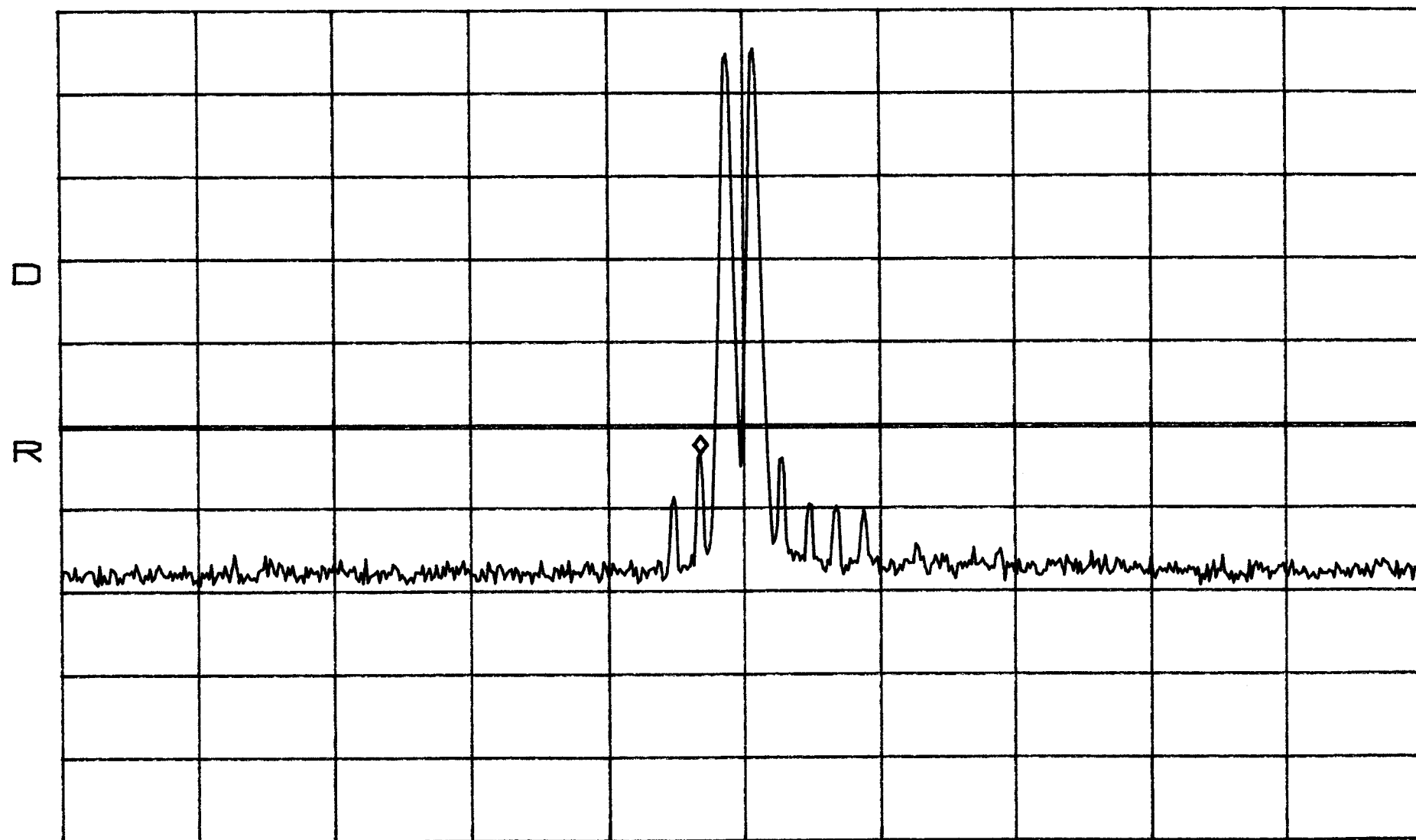
\*ATTEN 10dB

MKR -15.83dBm

RL 37.5dBm

10dB/

1.86917GHz



CENTER 1.87075GHz

SPAN 50.00MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms

IMD

BAND B

FM

Close

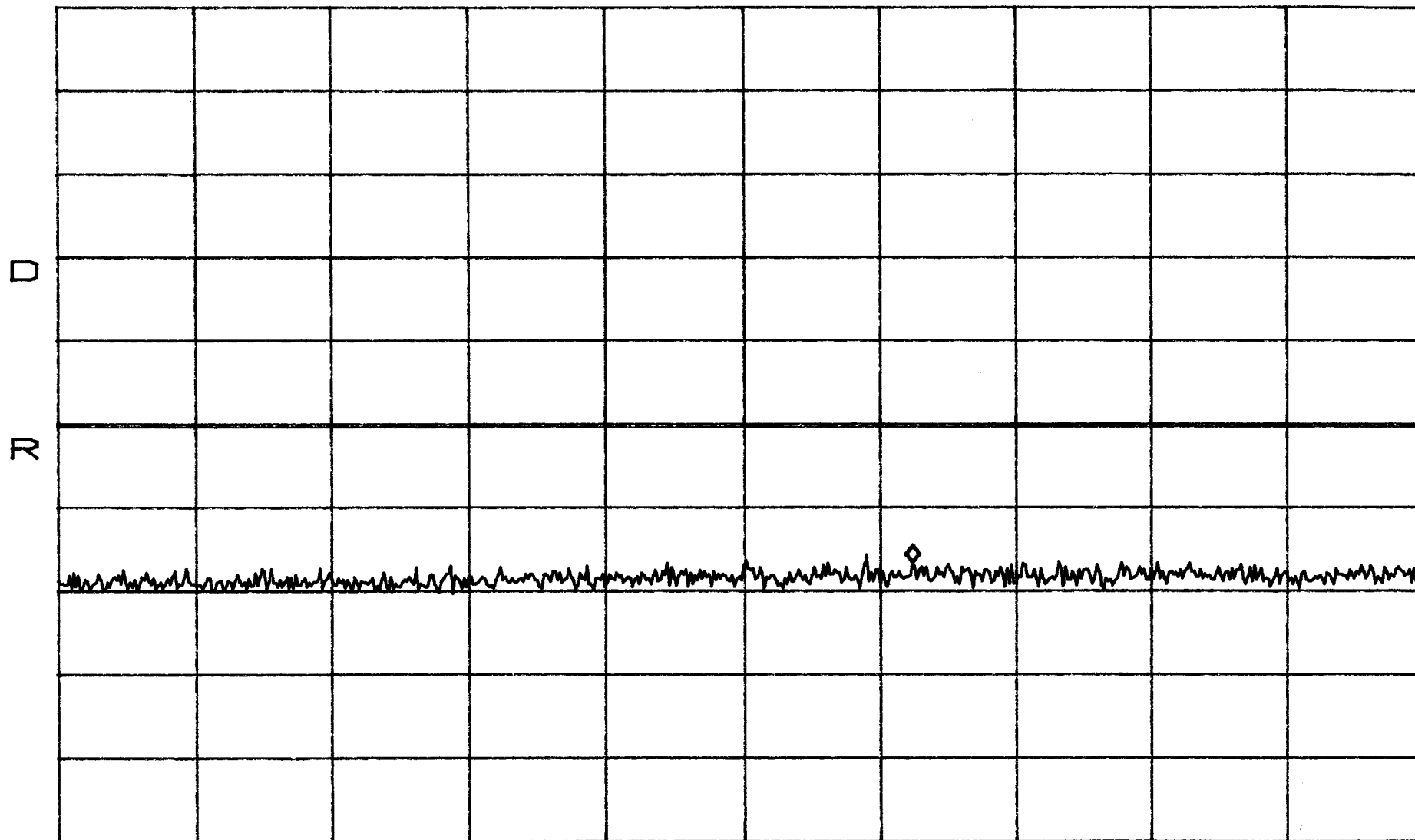
\*ATTEN 10dB

MKR -29.00dBm

RL 37.5dBm

10dB/

634.6MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

IMD  
close

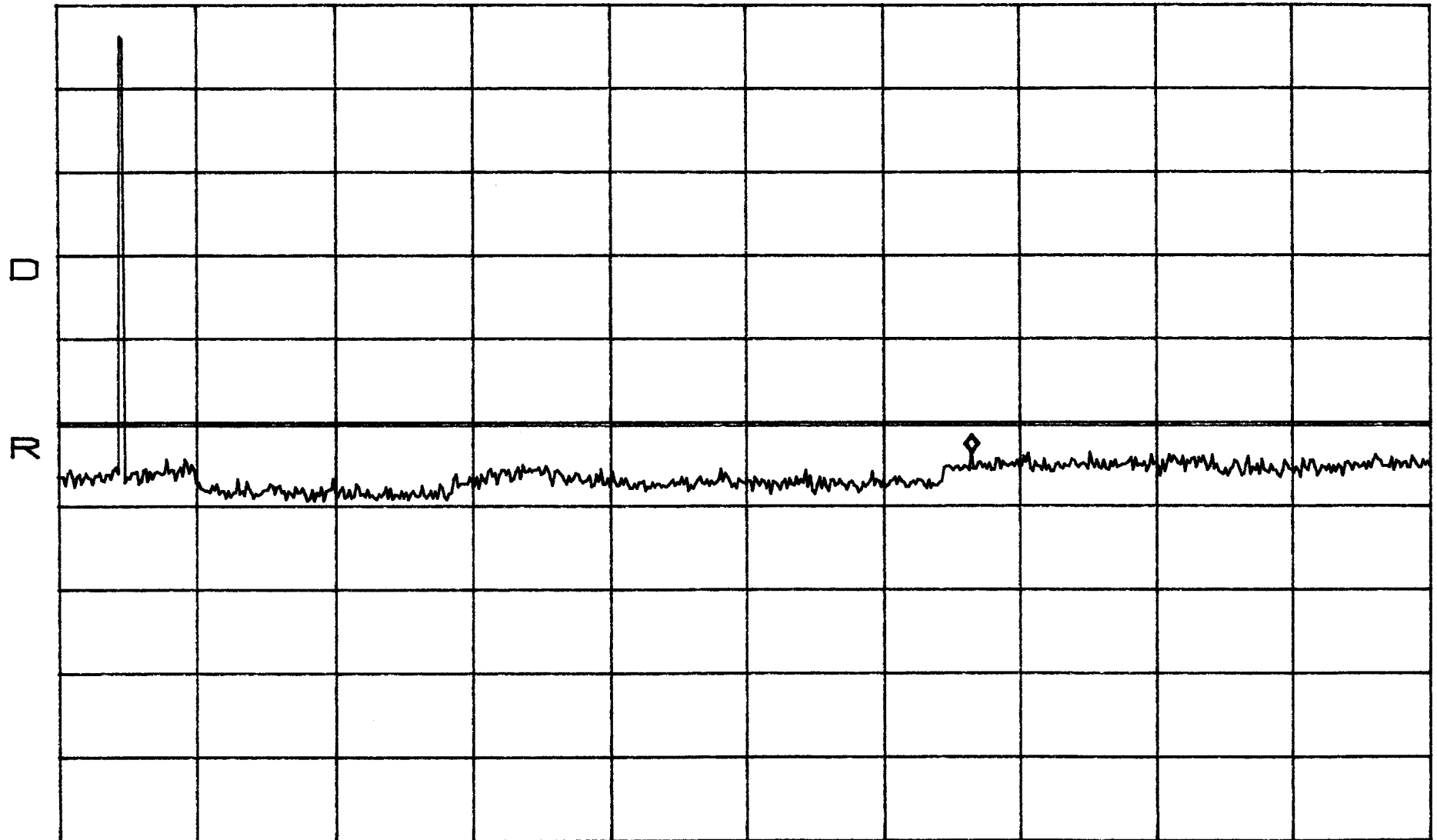
BAND B

FM

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -16.00dBm  
13.64GHz



START 1.00GHz

STOP 20.00GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 380ms

IMD  
Apert

BAND B

FM

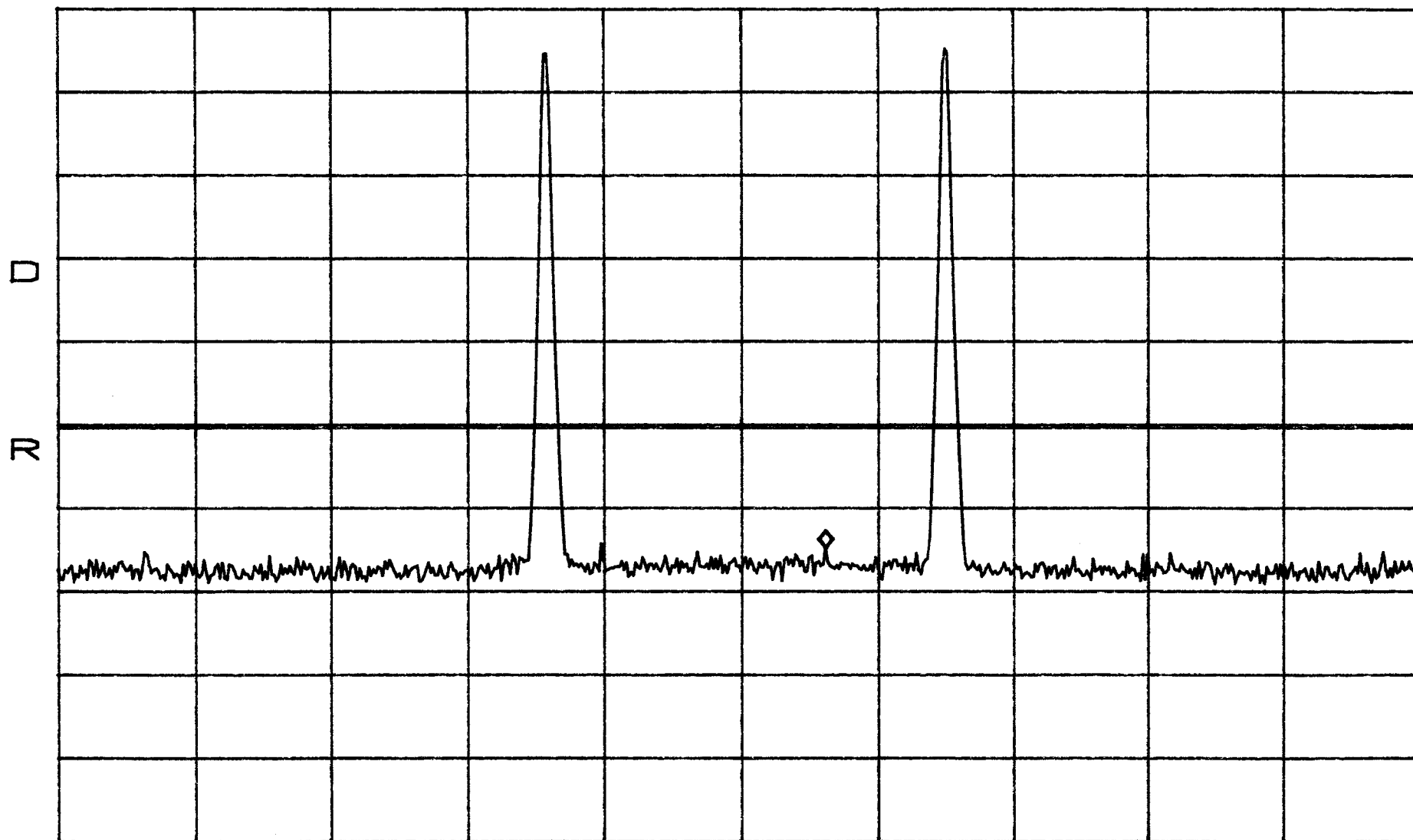
\*ATTEN 10dB

MKR -27.17dBm

RL 37.5dBm

10dB/

1.88033GHz



CENTER 1.87725GHz

SPAN 50.00MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms

IMD  
Apert

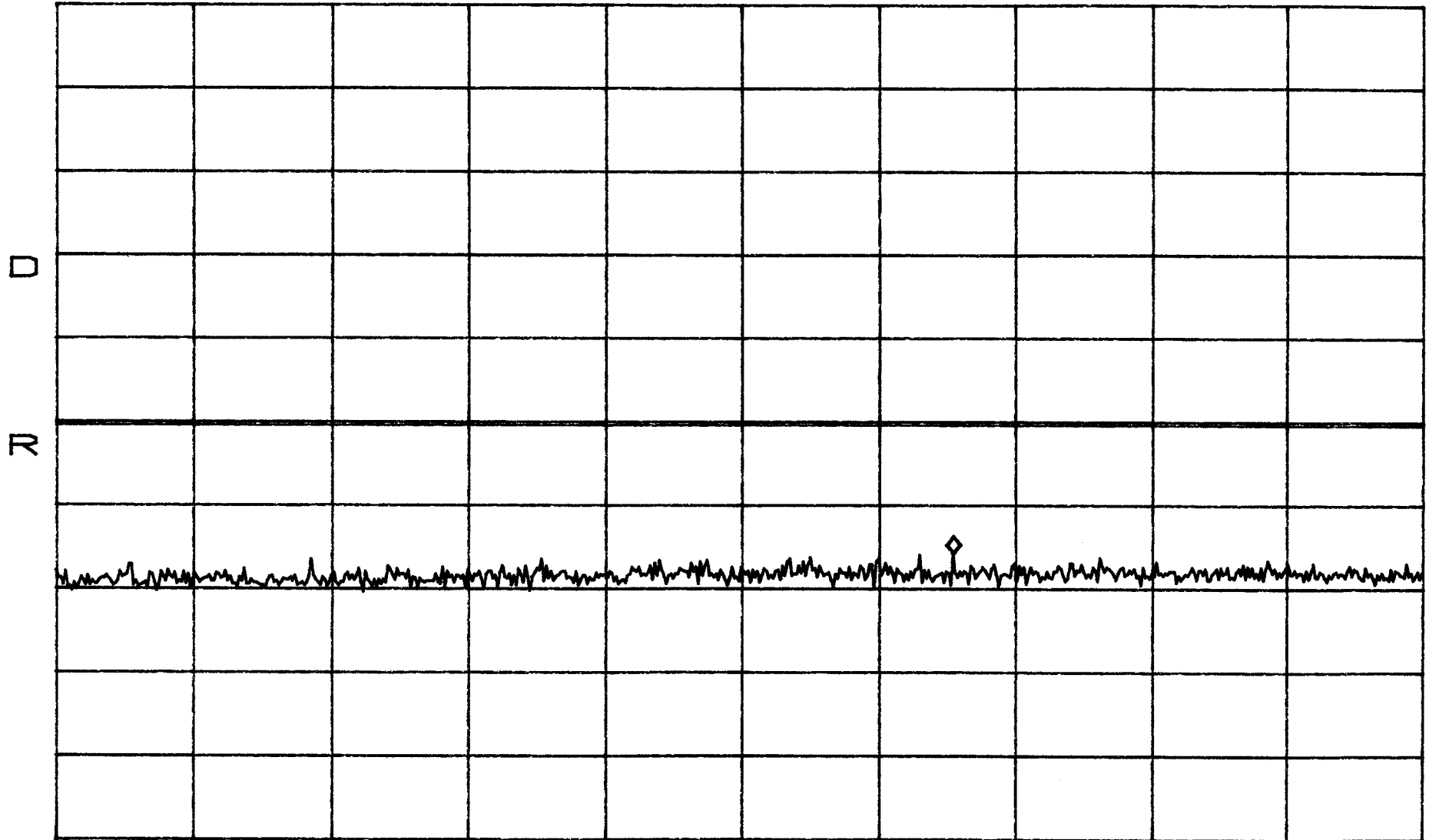
BAND B

FM

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -28.17dBm  
665.4MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

IMD  
Apert

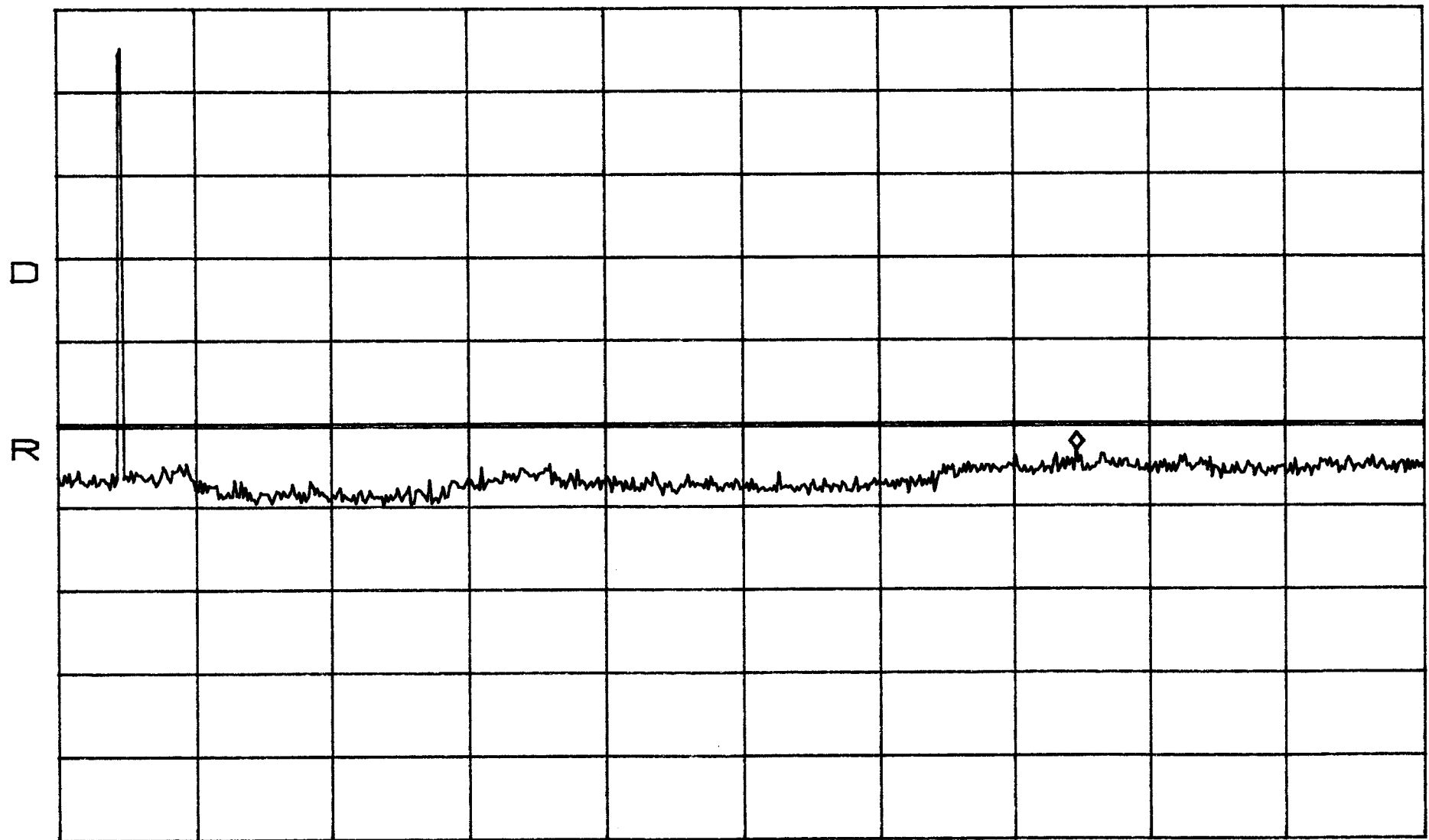
BAND B

FM

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -15.67dBm  
15.19GHz



START 1.00GHz

STOP 20.00GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 380ms

IMD

BAND B

TDMA

Close

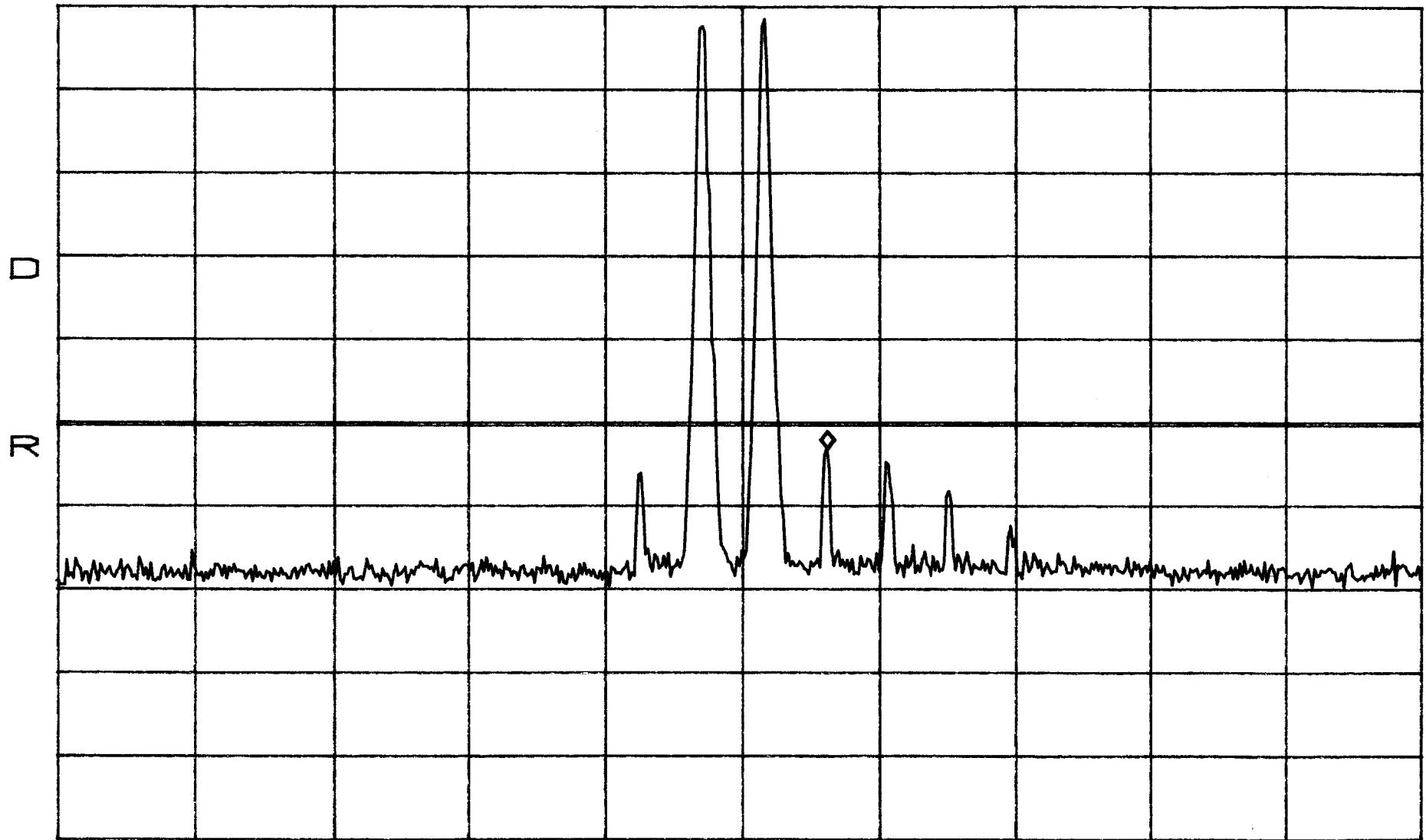
\*ATTEN 10dB

MKR -15.50dBm

RL 37.5dBm

10dB/

1.87508GHz



CENTER 1.87200GHz

SPAN 50.00MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms

IMD  
Close

BAND B

TDMA

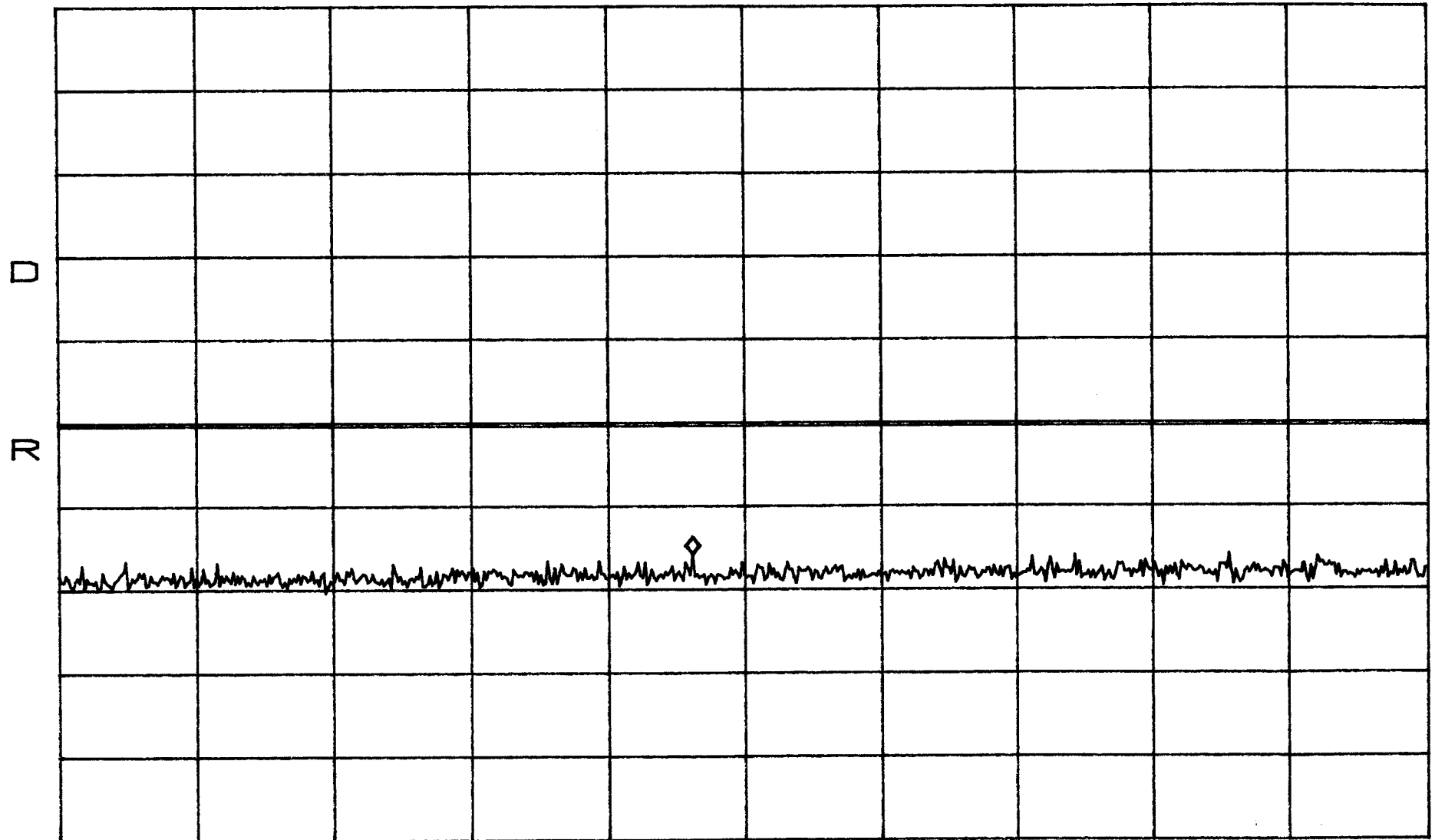
\*ATTEN 10dB

RL 37.5dBm

MKR -28.17dBm

10dB/

477.8MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

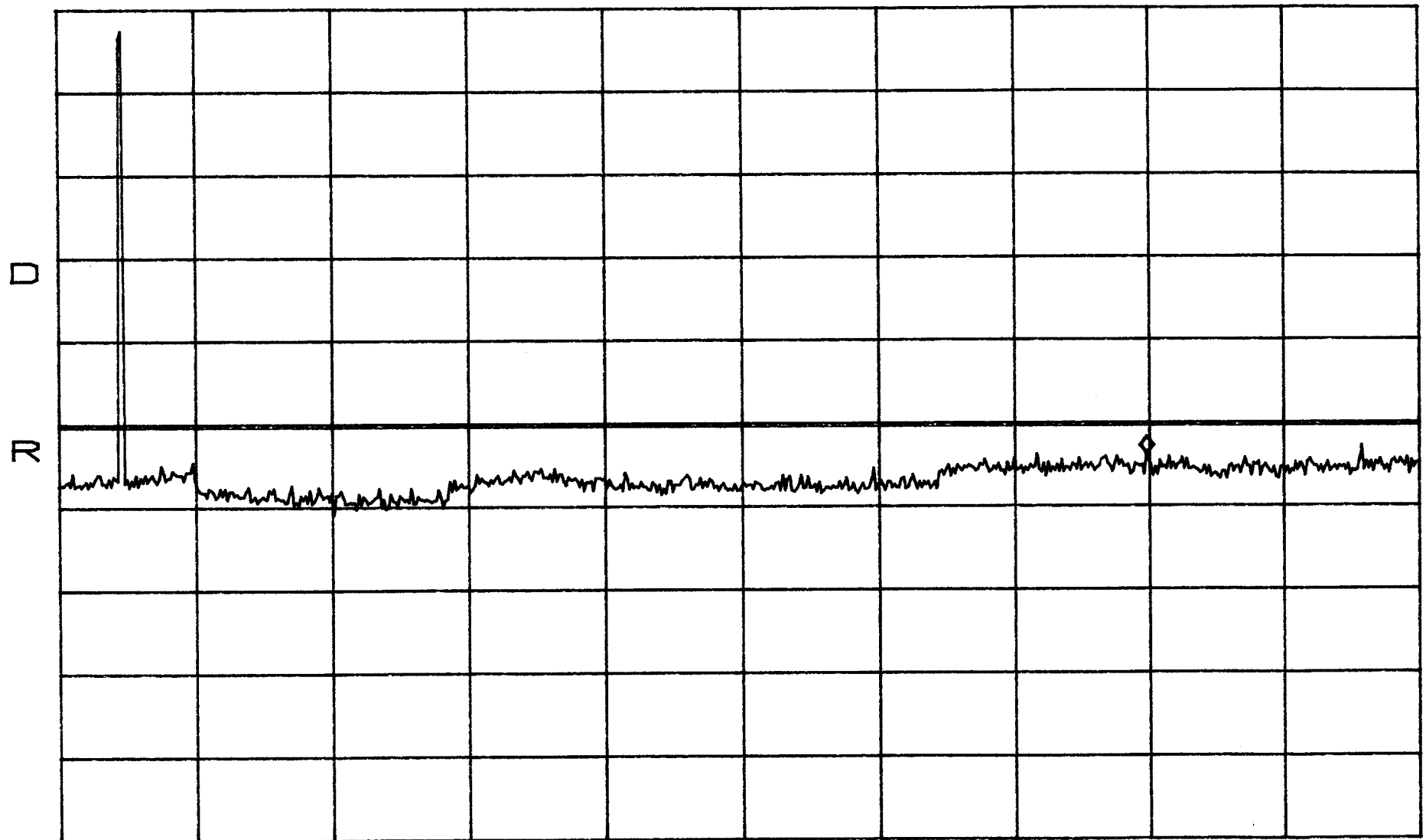
SWP 250ms

IMD BAND B TDMA  
Close

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -16.17dBm  
16.17GHz



START 1.00GHz STOP 20.00GHz  
\*RBW 1.0MHz VBW 1.0MHz SWP 380ms

IMD  
Apert

BAND B

TDMA

\*ATTEN 10dB

MKR -27.17dBm

RL 37.5dBm

10dB/

1.87942GHz



CENTER 1.87725GHz

SPAN 50.00MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms

IMD  
Apert

BAND B

TDMA

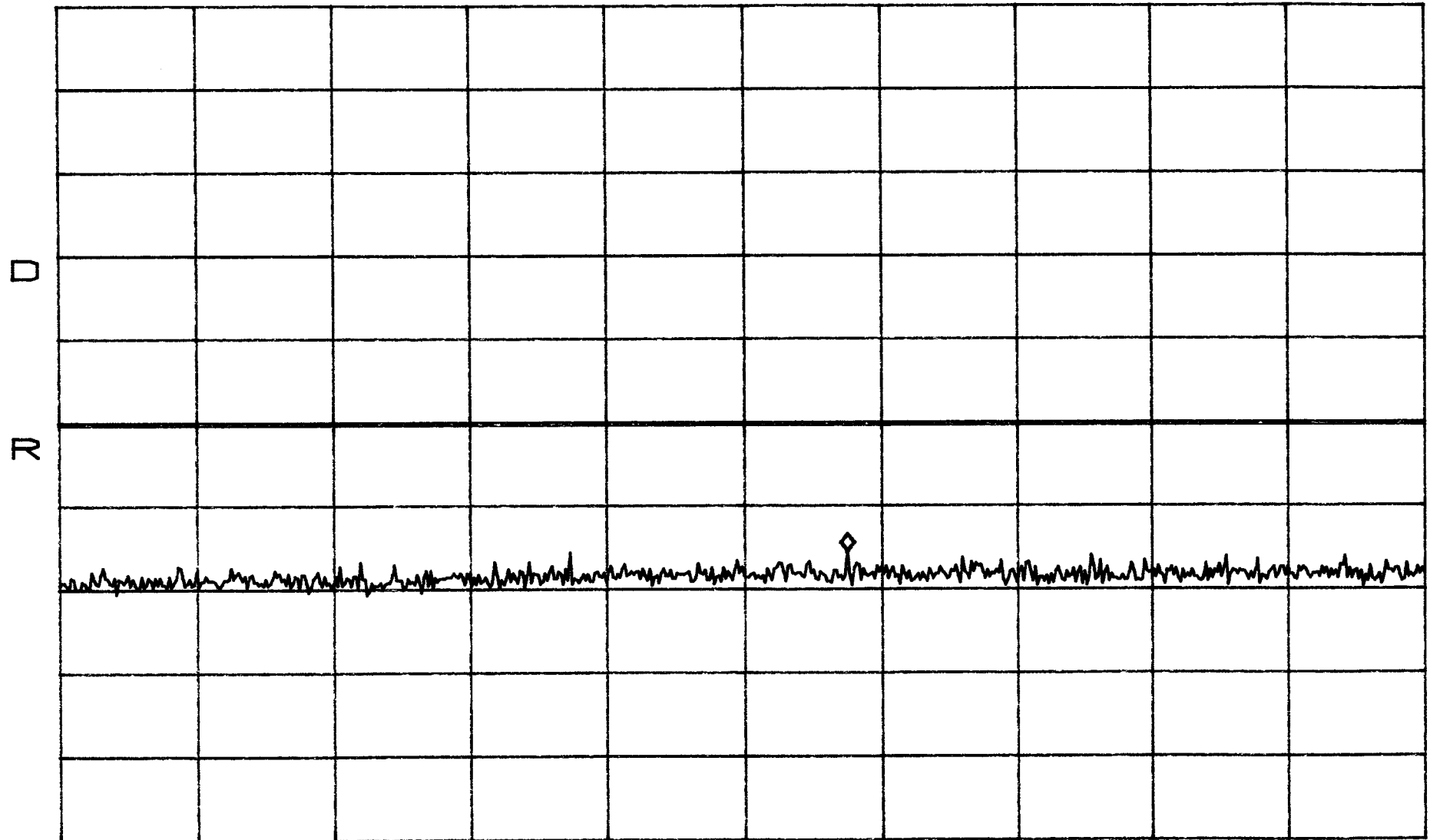
\*ATTEN 10dB

MKR -27.83dBm

RL 37.5dBm

10dB/

587.8MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

IMD  
Apert

BAND B

TDMA

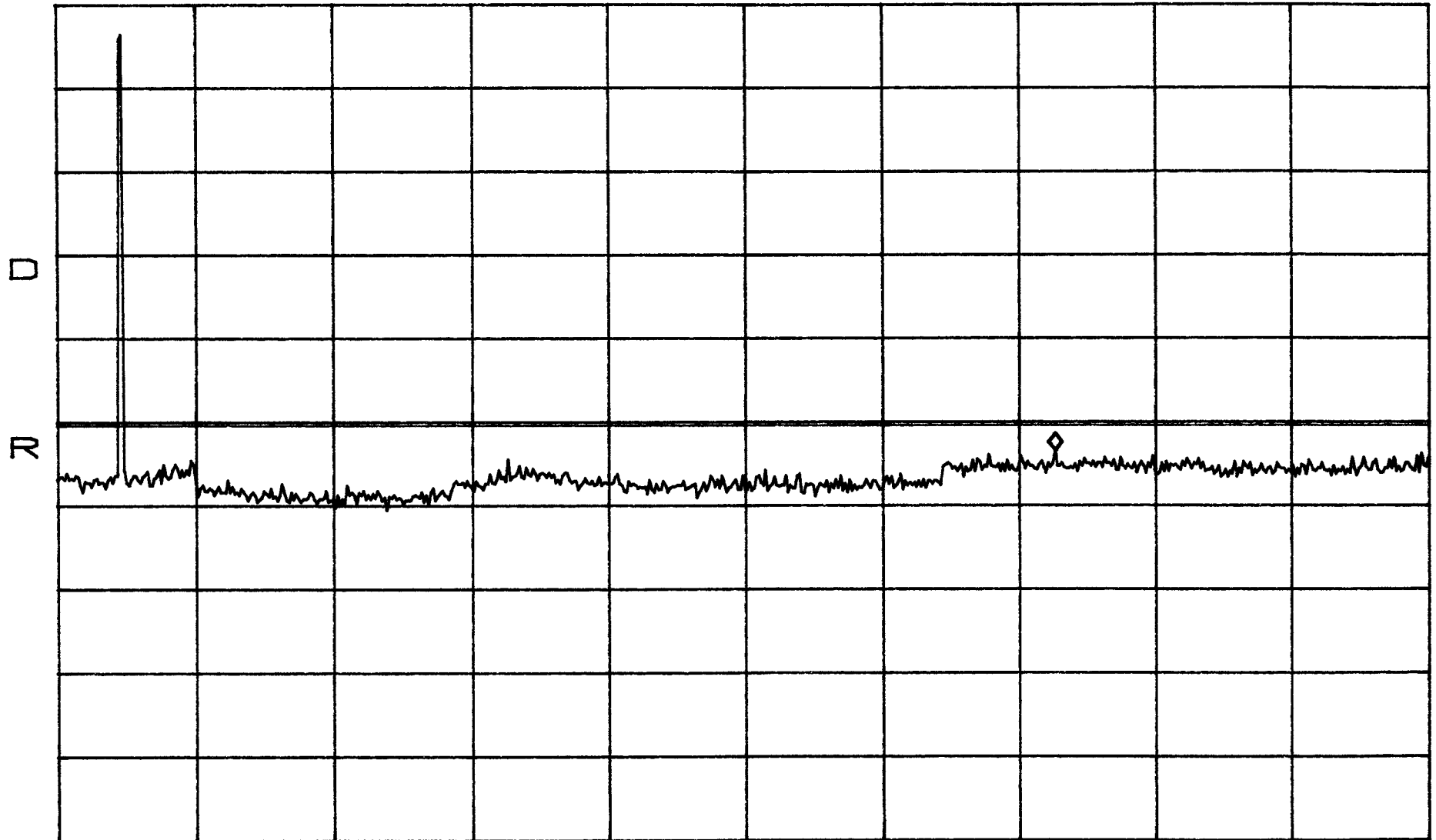
\*ATTEN 10dB

MKR -15.83dBm

RL 37.5dBm

10dB/

14.81GHz



START 1.00GHz

STOP 20.00GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 380ms

↓↑↑  
Close

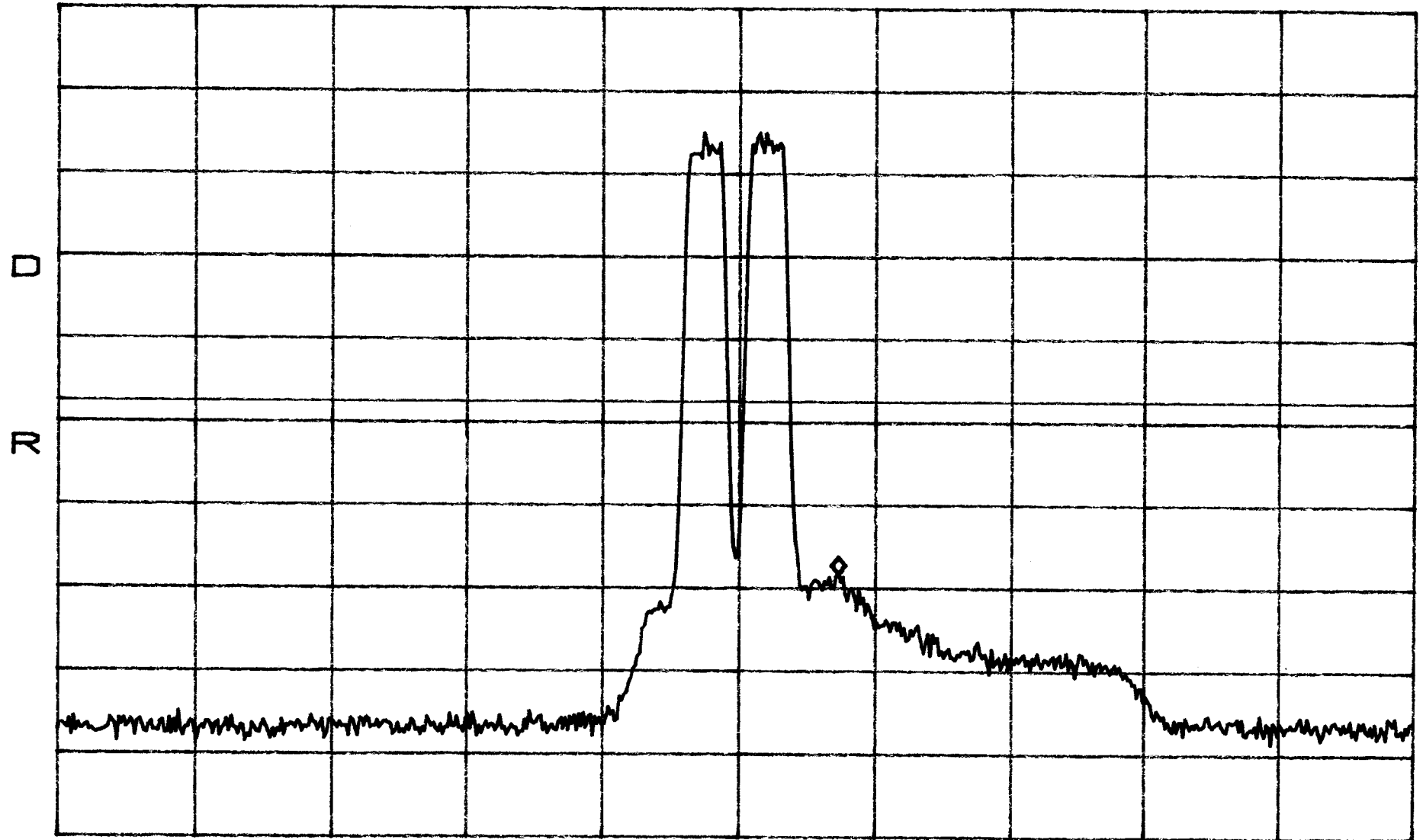
BAND B

CDMA

ATTEN 10dB  
RL 34.5dBm

VAVG 100  
10dB/

MKR -33.67dBm  
1.87542GHz



CENTER 1.87175GHz  
\*RBW 100kHz VBW 100kHz

SPAN 50.00MHz  
SWP 50ms

ImD  
Close

BAND B CDMA

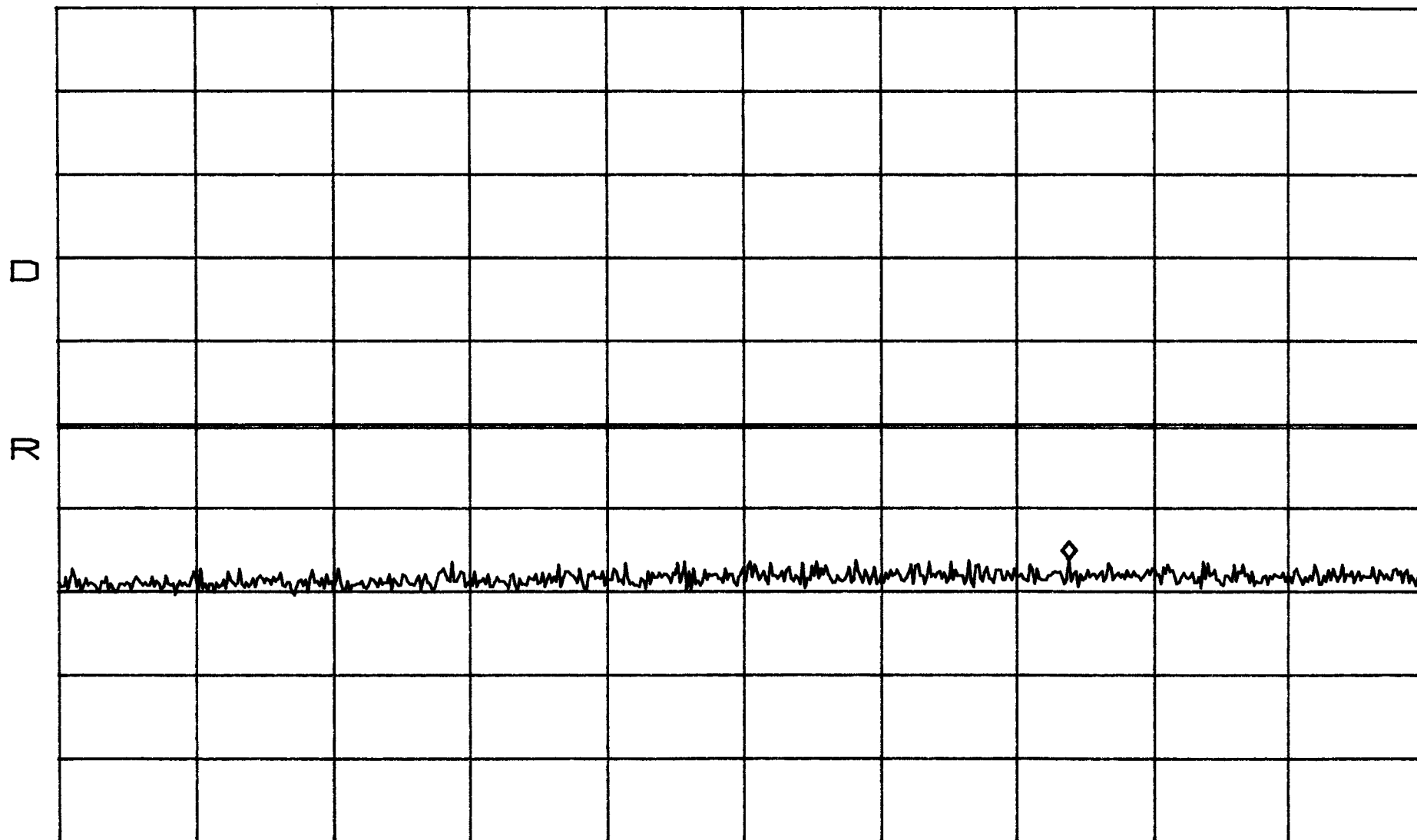
\*ATTEN 10dB

MKR -28.50dBm

RL 37.5dBm

10dB/

746.2MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

IMD  
Close

BAND B

CDMA

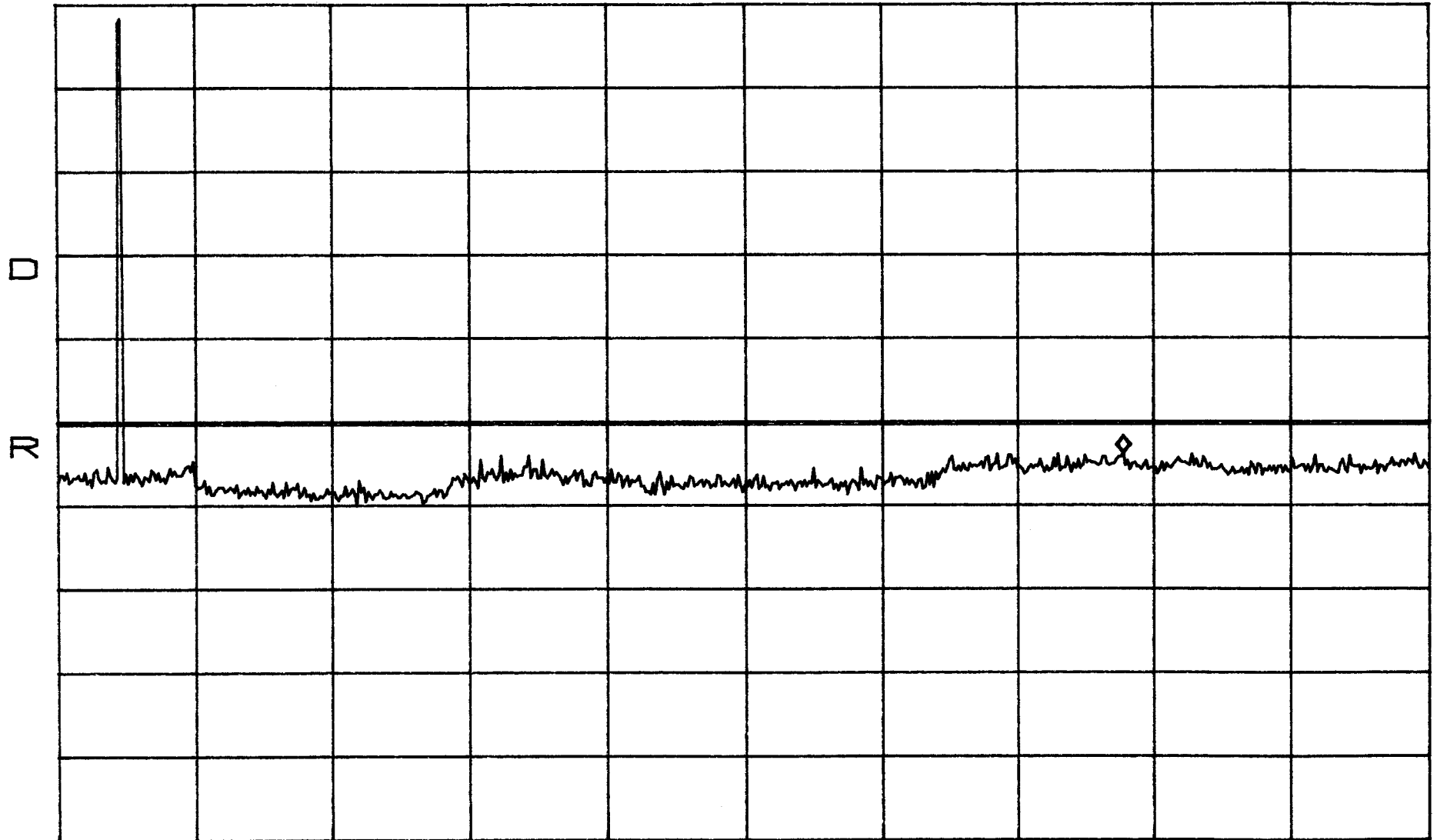
\*ATTEN 10dB

MKR -16.17dBm

RL 37.5dBm

10dB/

15.79GHz



START 1.00GHz

STOP 20.00GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 380ms

IMD  
Apert

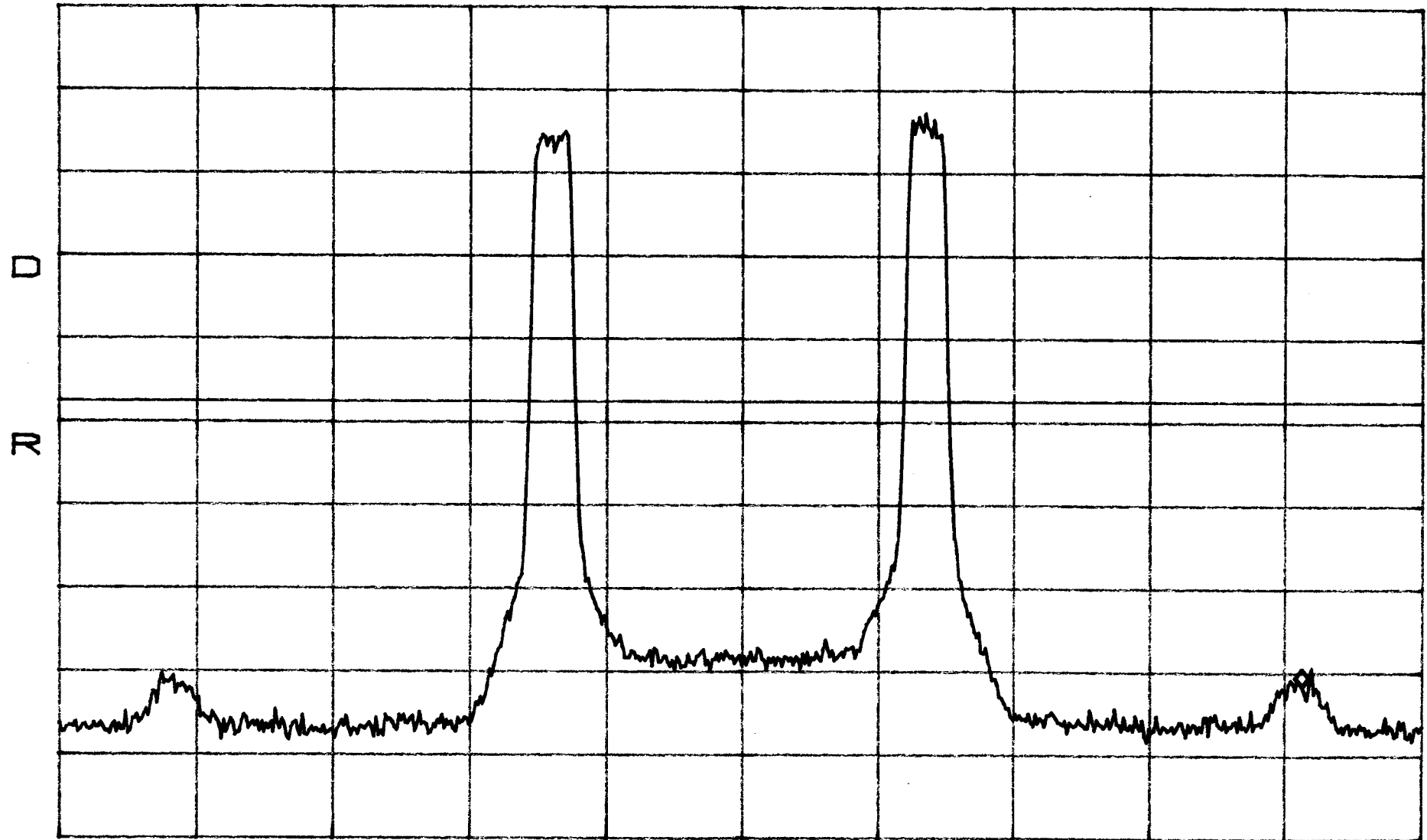
BAND B

CDMA

ATTEN 10dB  
RL 34.5dBm

VAVG 100  
10dB/

MKR -47.00dBm  
1.89817GHz



CENTER 1.87750GHz

SPAN 50.00MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms

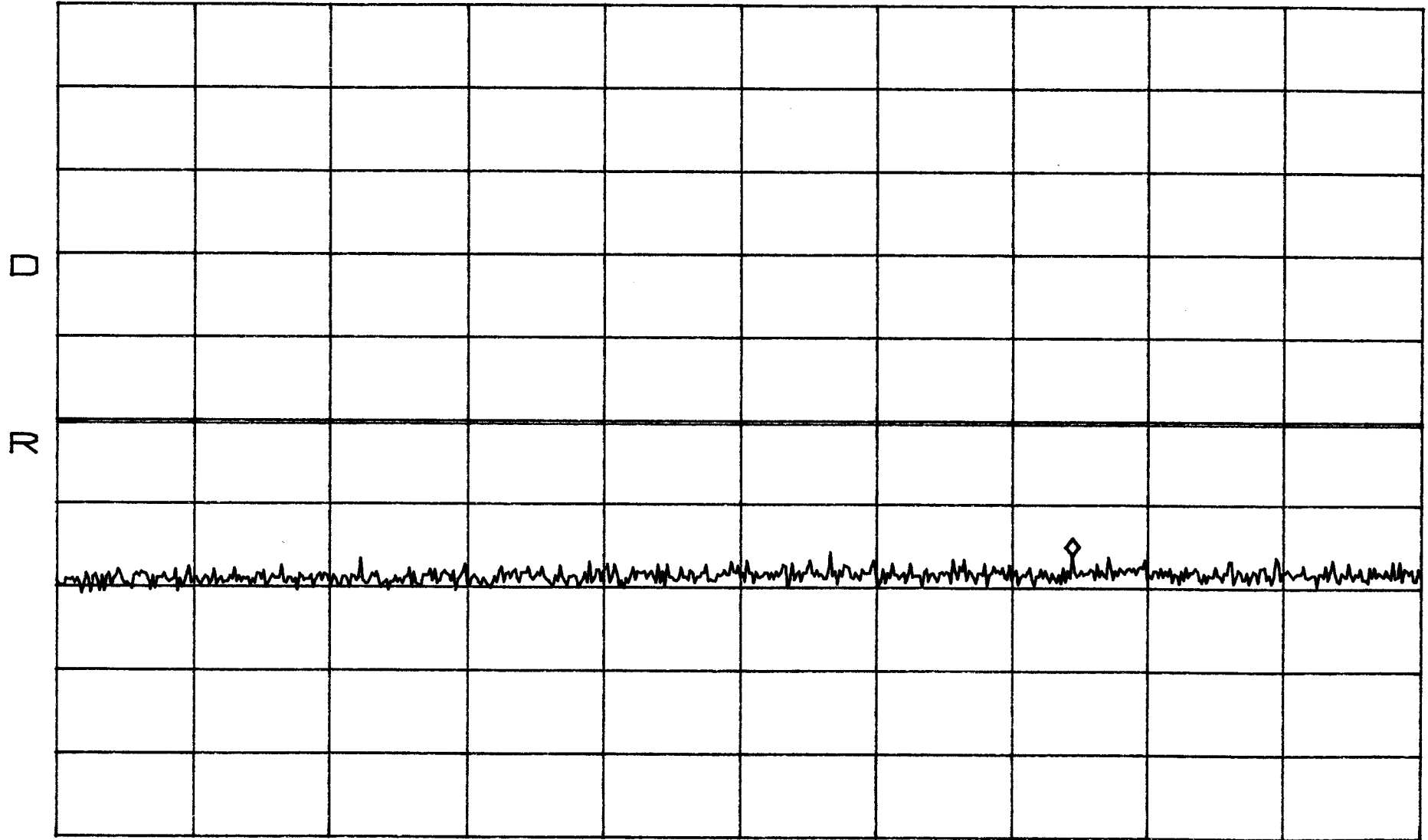
IMD  
Apert

BAND B CDMA

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -28.50dBm  
752.7MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

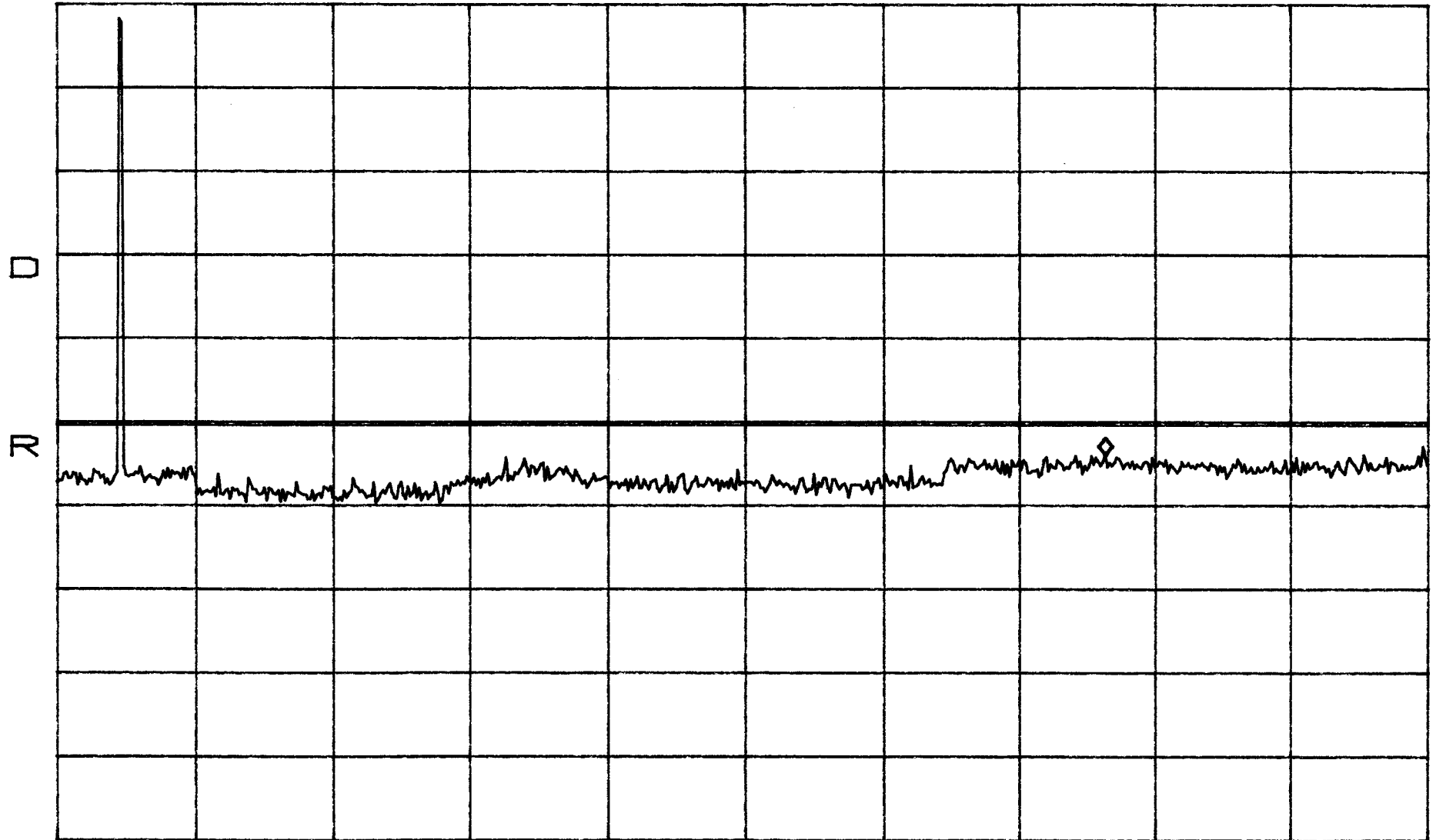
IMD  
Apert

BAND B CDMA

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -16.33dBm  
15.50GHz



START 1.00GHz

STOP 20.00GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 380ms

IMD  
close

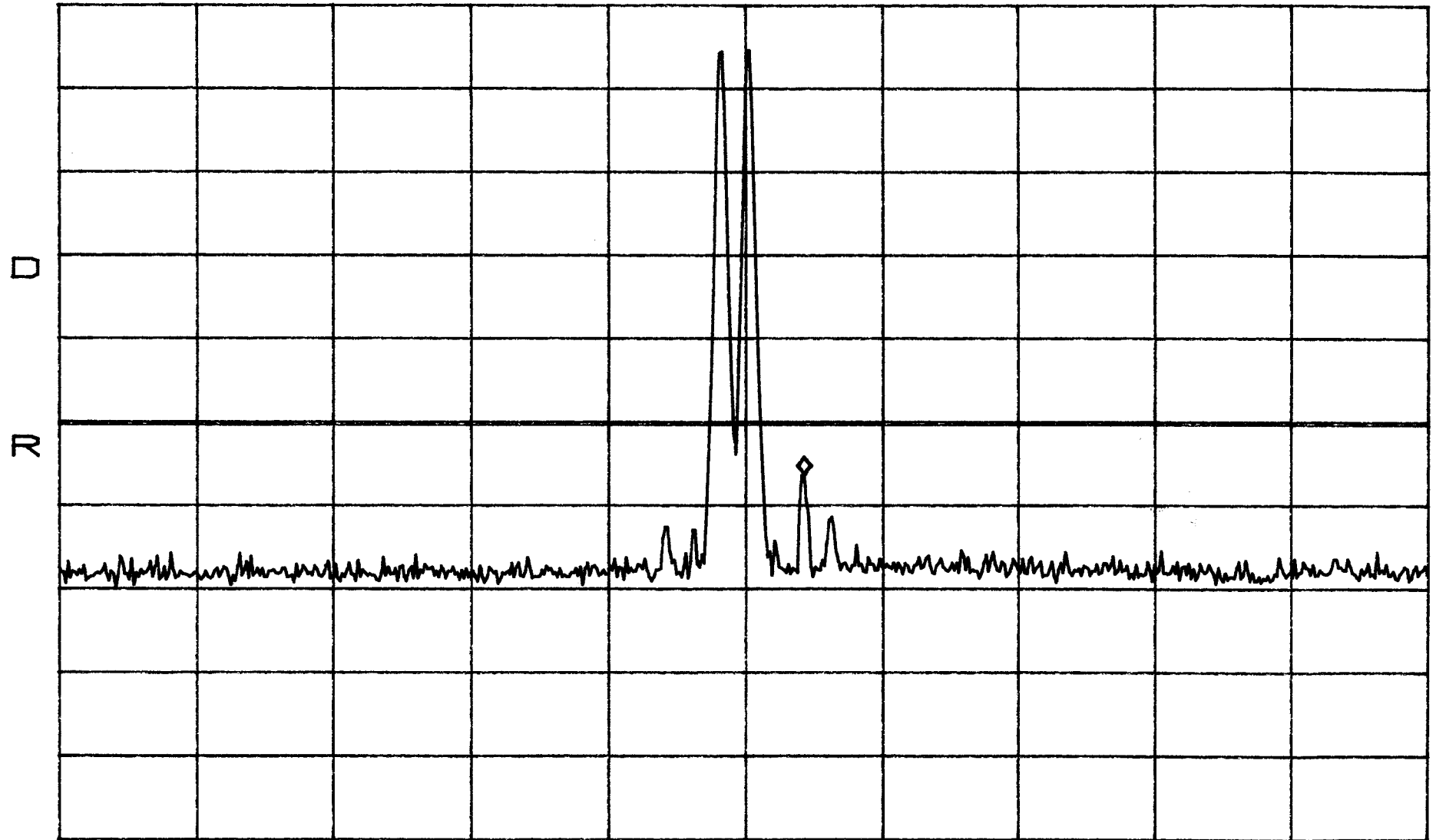
BAND C

FM

\*ATTEN 10dB  
RL 37.5dBm

MKR -18.67dBm  
1.89817GHz

10dB/



CENTER 1.89600GHz

SPAN 50.00MHz

\*RBW 100kHz VBW 100kHz

SWP 50ms

IMD  
close

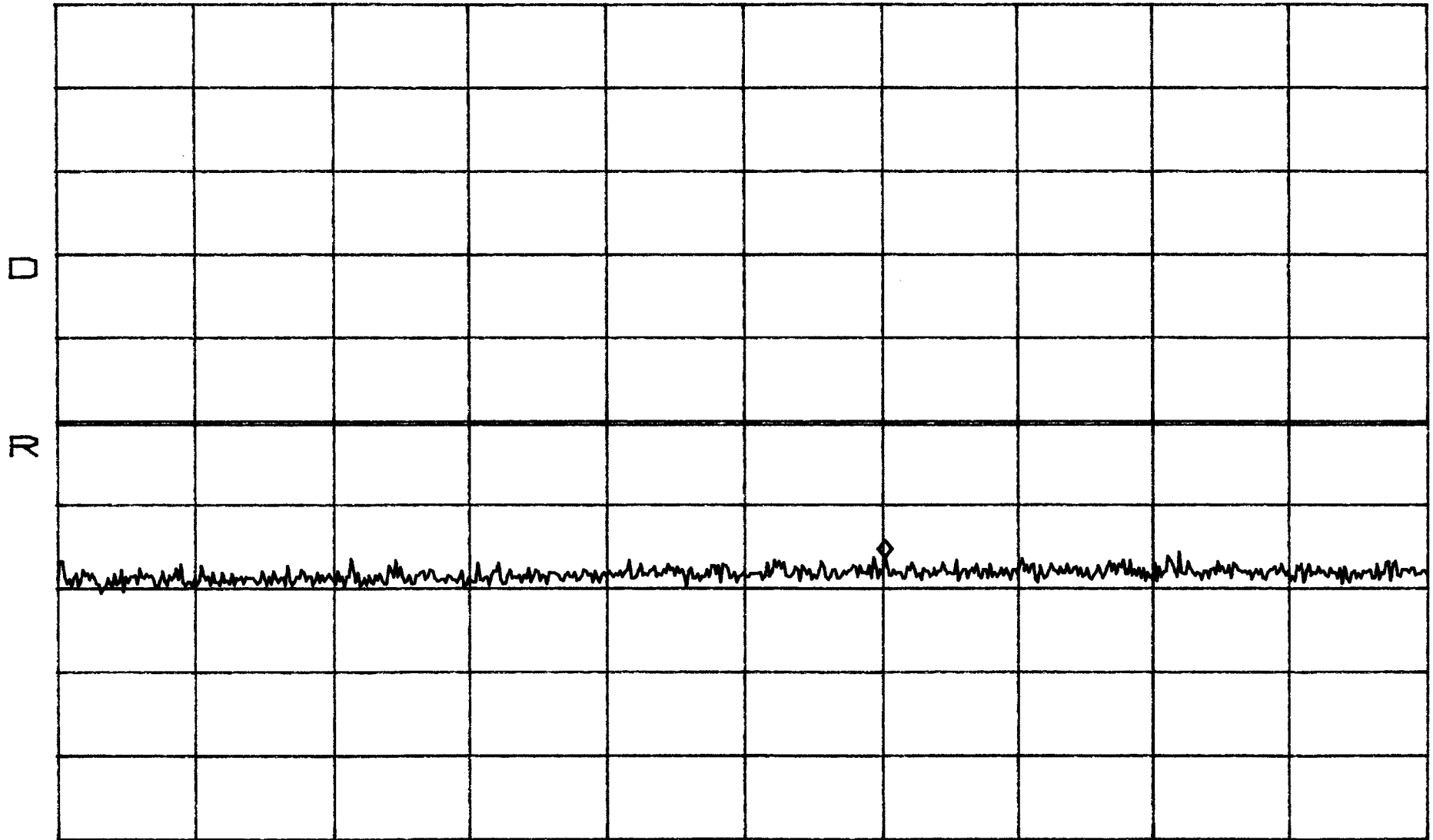
BAND C

FM

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -28.67dBm  
613.6MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

IMD  
close

BAND C

FM

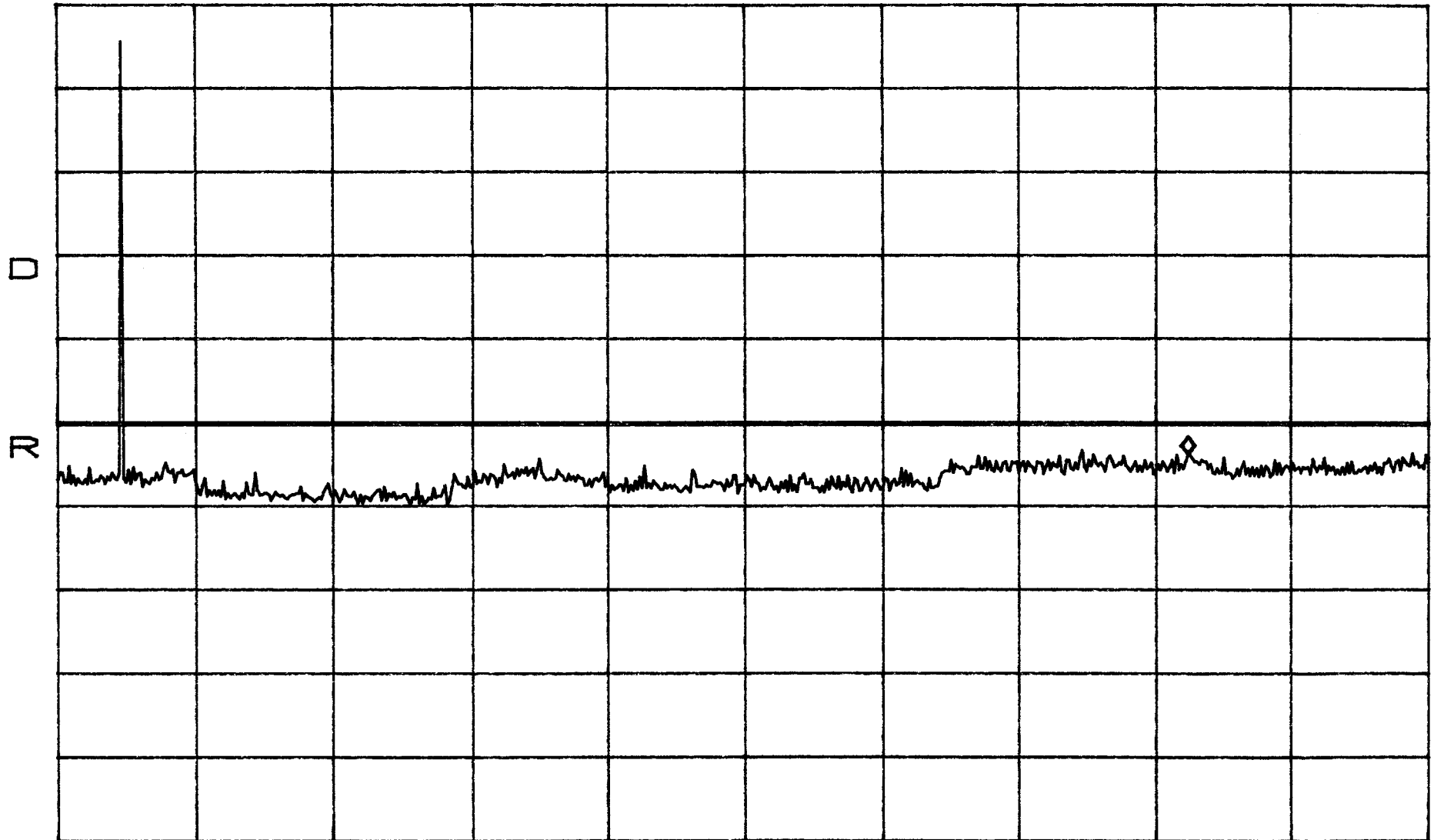
\*ATTEN 10dB

RL 37.5dBm

10dB/

MKR -16.17dBm

16.64GHz



START 1.00GHz

STOP 20.00GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 380ms

IMD  
Apert

BAND C

FM

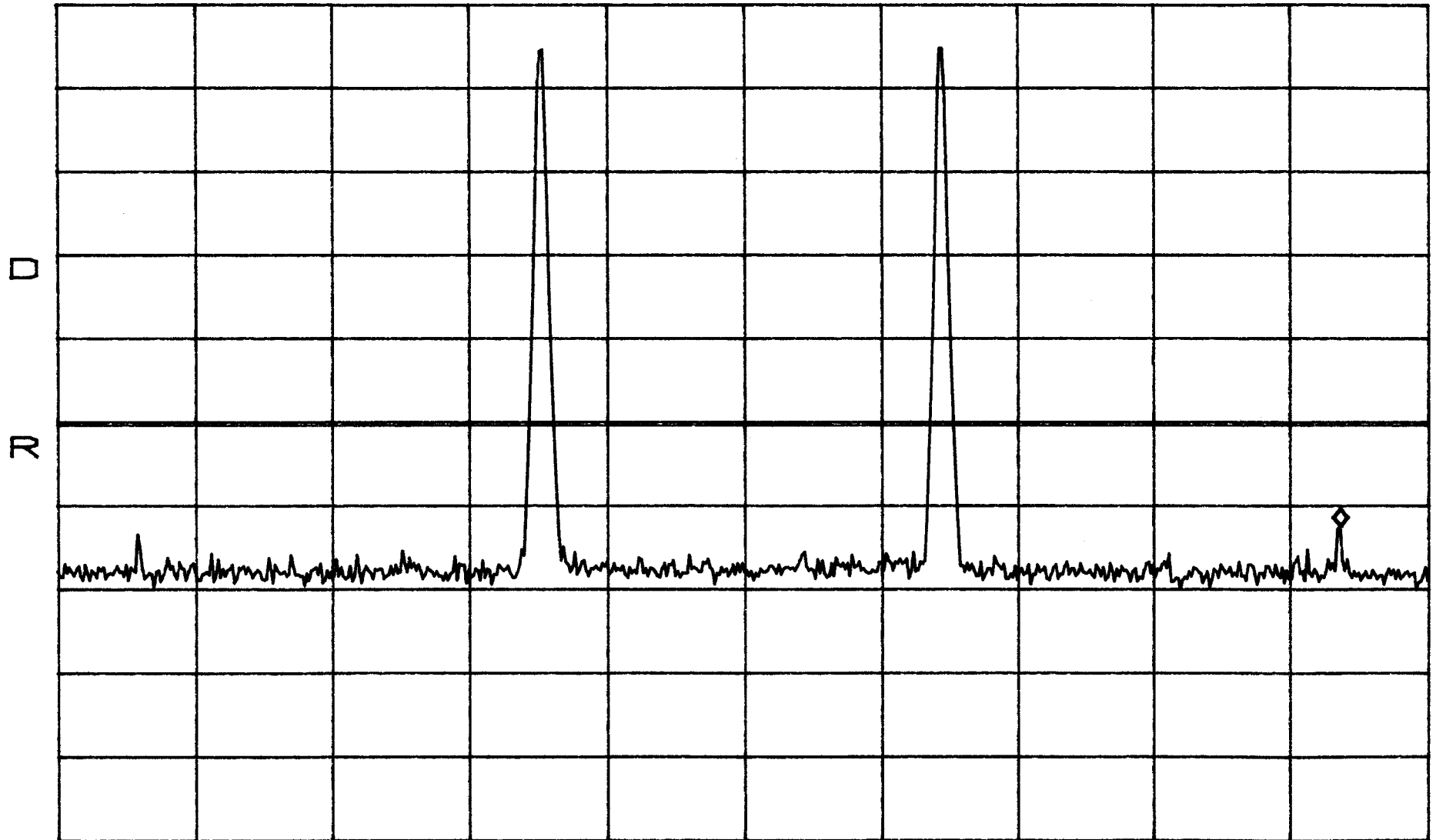
\*ATTEN 10dB

MKR -24.83dBm

RL 37.5dBm

10dB/

1.92433GHz



CENTER 1.90250GHz

SPAN 50.00MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms

IMD  
Apert

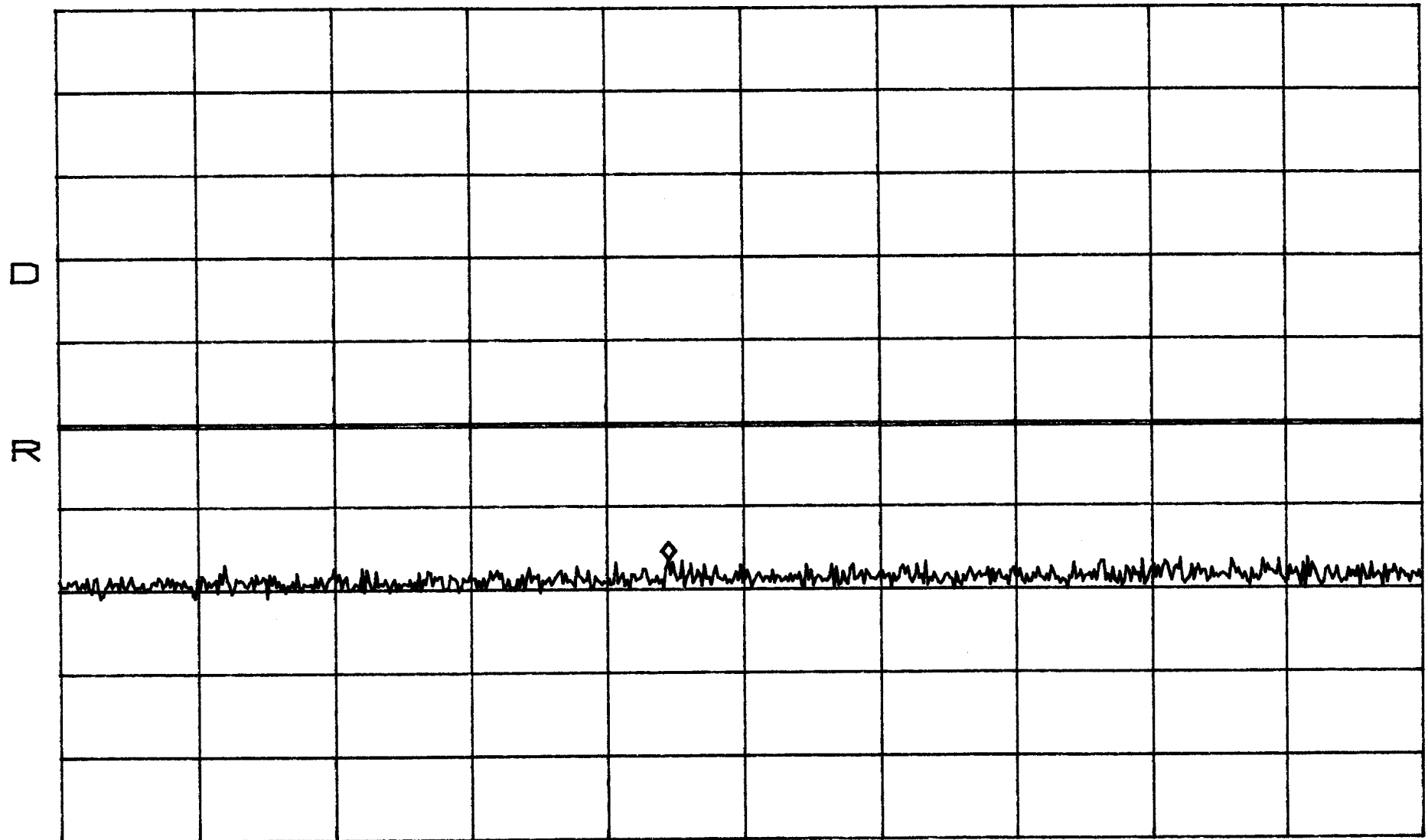
BAND C

FM

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -28.83dBm  
461.7MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

IMD  
Apert

BAND C

FM

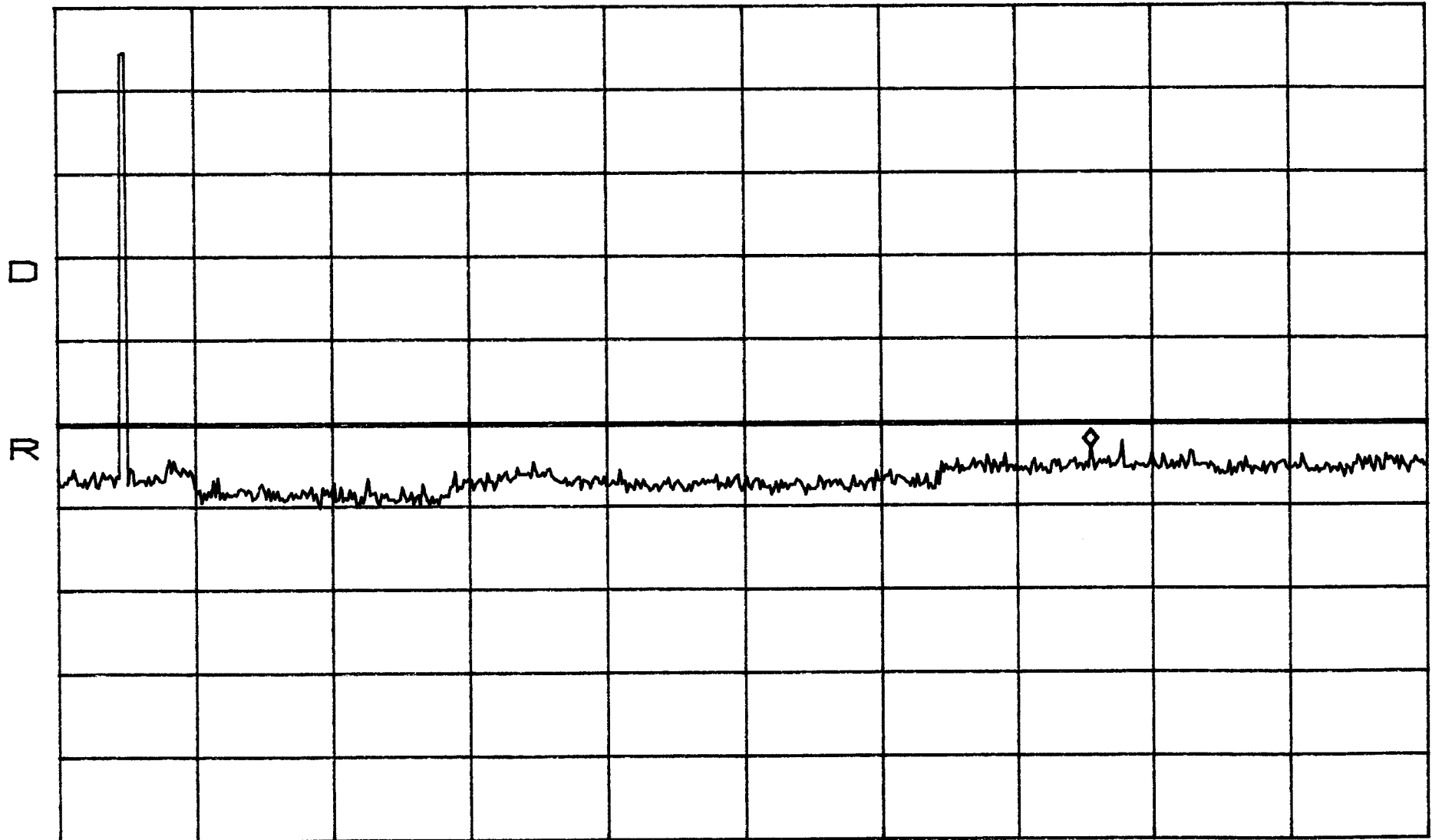
\*ATTEN 10dB

MKR -15.50dBm

RL 37.5dBm

10dB/

15.35GHz



START 1.00GHz

STOP 20.00GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 380ms

IMD  
Close

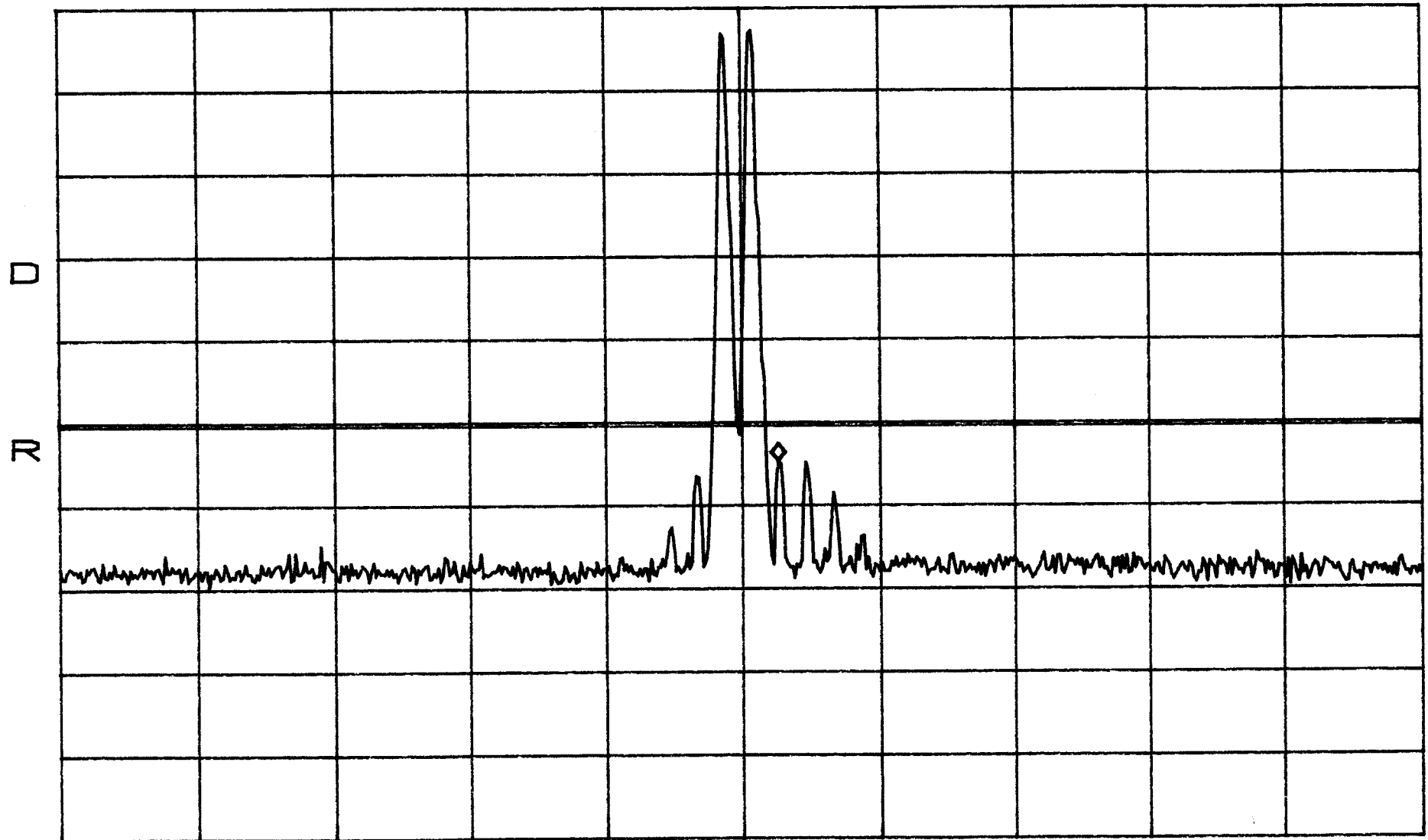
BAND C

TDMA

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -17.00dBm  
1.89708GHz



CENTER 1.89575GHz  
\*RBW 100kHz VBW 100kHz

SPAN 50.00MHz  
SWP 50ms

IMD  
Close

BAND C

TDMA

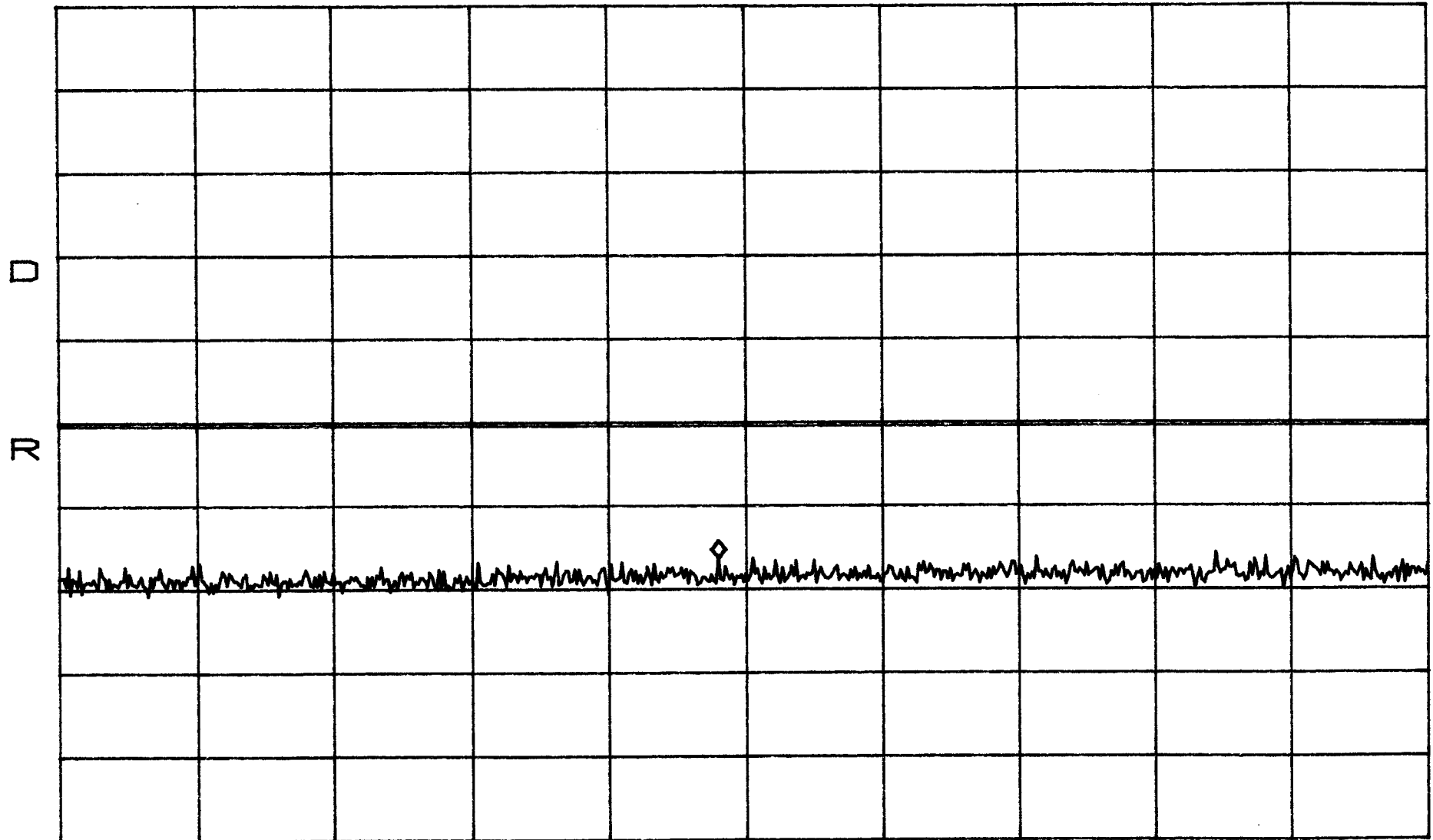
\*ATTEN 10dB

RL 37.5dBm

MKR -28.67dBm

10dB/

495.6MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

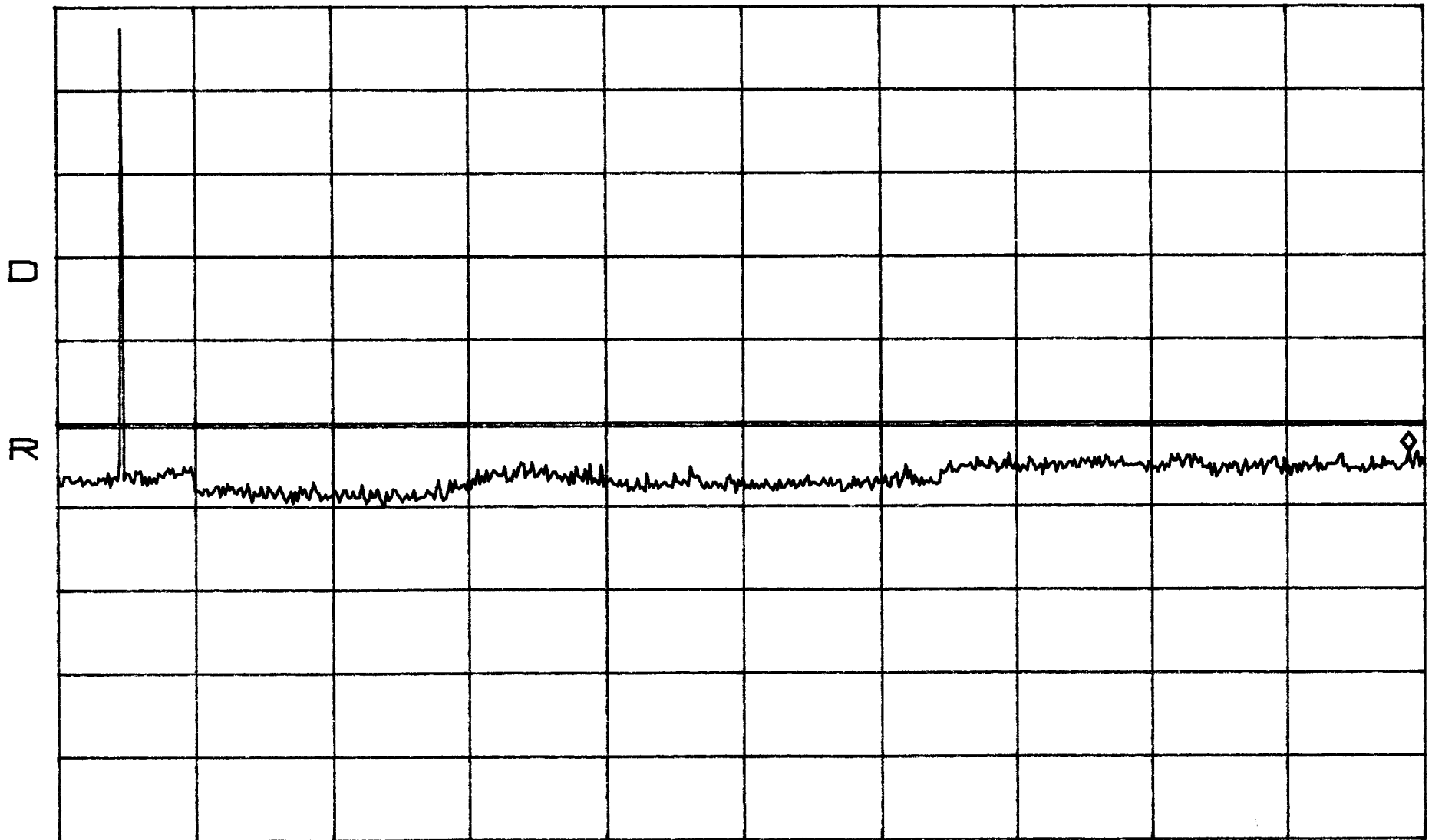
SWP 250ms

IMD BAND C TDMA  
Close

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -15.83dBm  
19.78GHz



START 1.00GHz STOP 20.00GHz  
\*RBW 1.0MHz VBW 1.0MHz SWP 380ms

IMD  
Apert

BAND C

TDMA

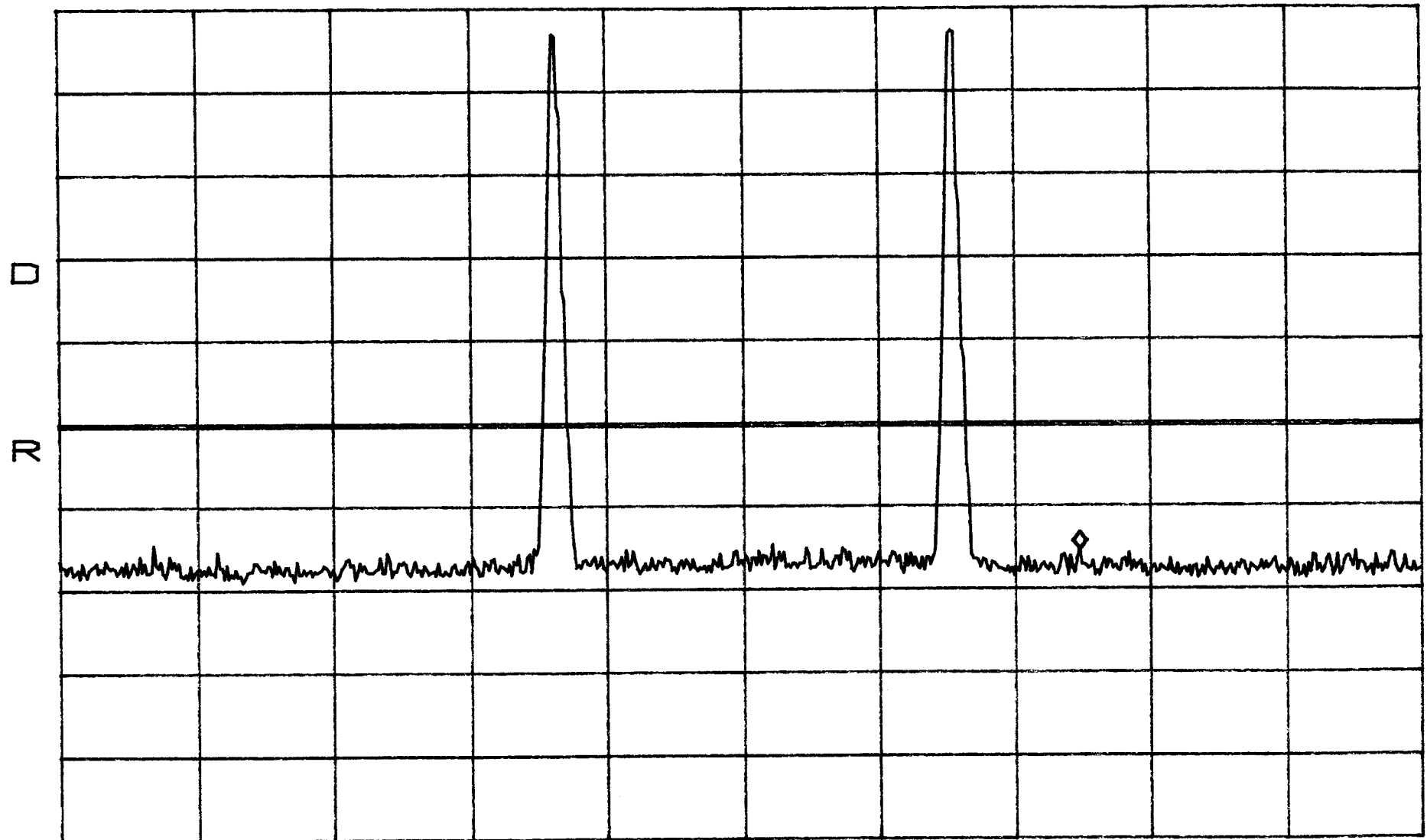
\*ATTEN 10dB

RL 37.5dBm

MKR -27.67dBm

10dB/

1.91442GHz



CENTER 1.90200GHz

SPAN 50.00MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms

IMD  
Apert

BAND C

TDMA

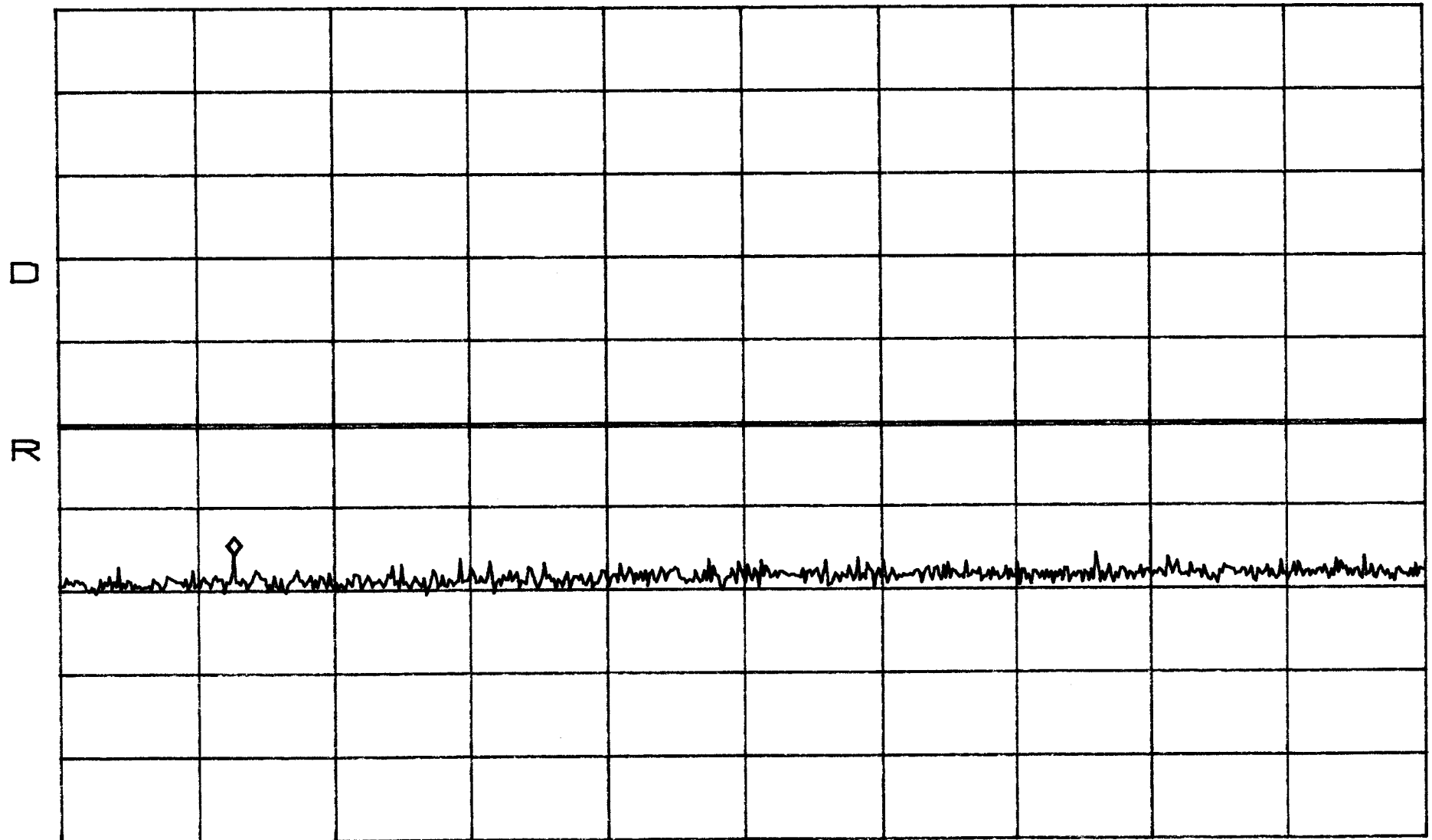
\*ATTEN 10dB

MKR -28.00dBm

RL 37.5dBm

10dB/

152.9MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

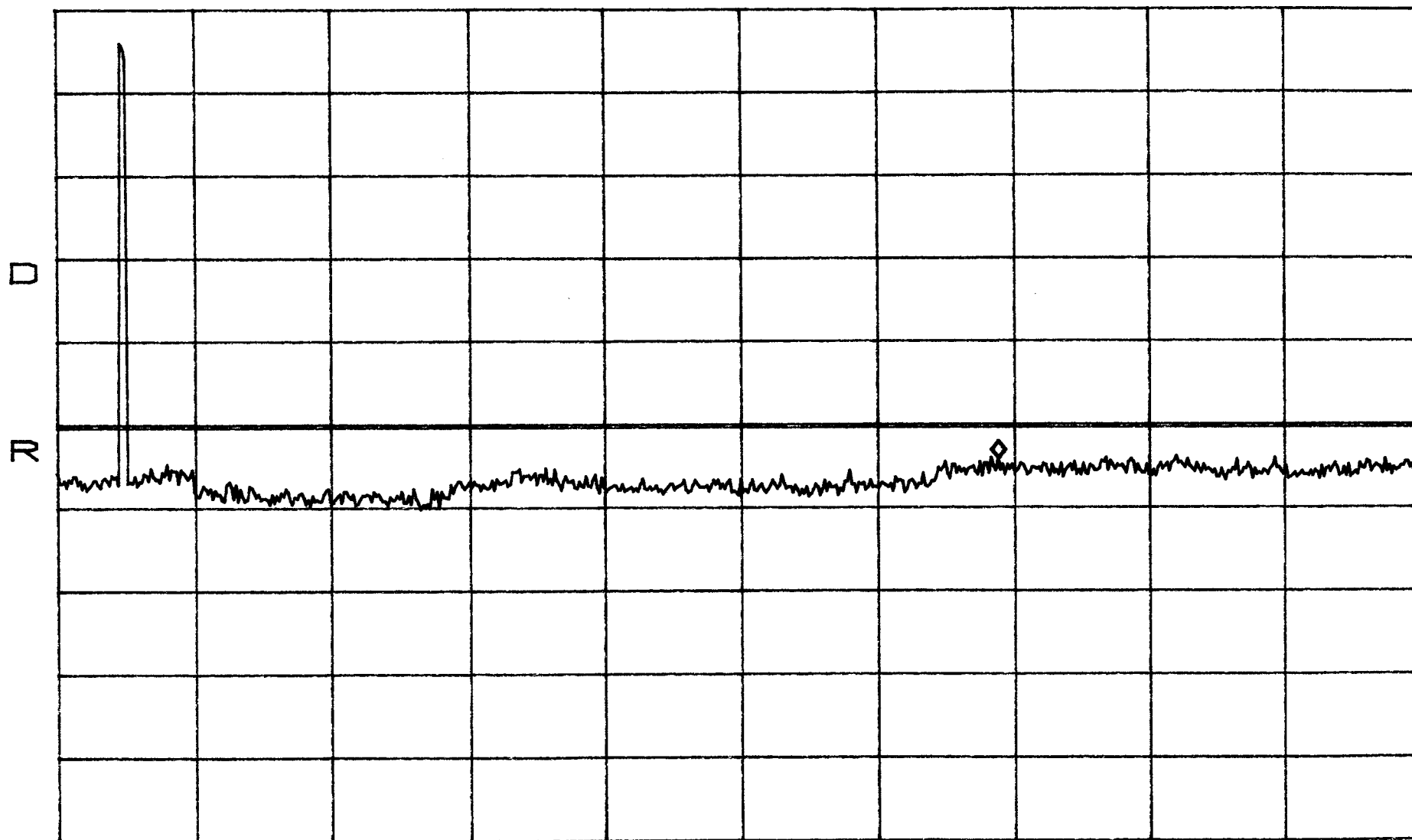
IMD  
Apert

BAND C TDMA

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -16.50dBm  
14.08GHz



START 1.00GHz

STOP 20.00GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 380ms

↓MID  
Close

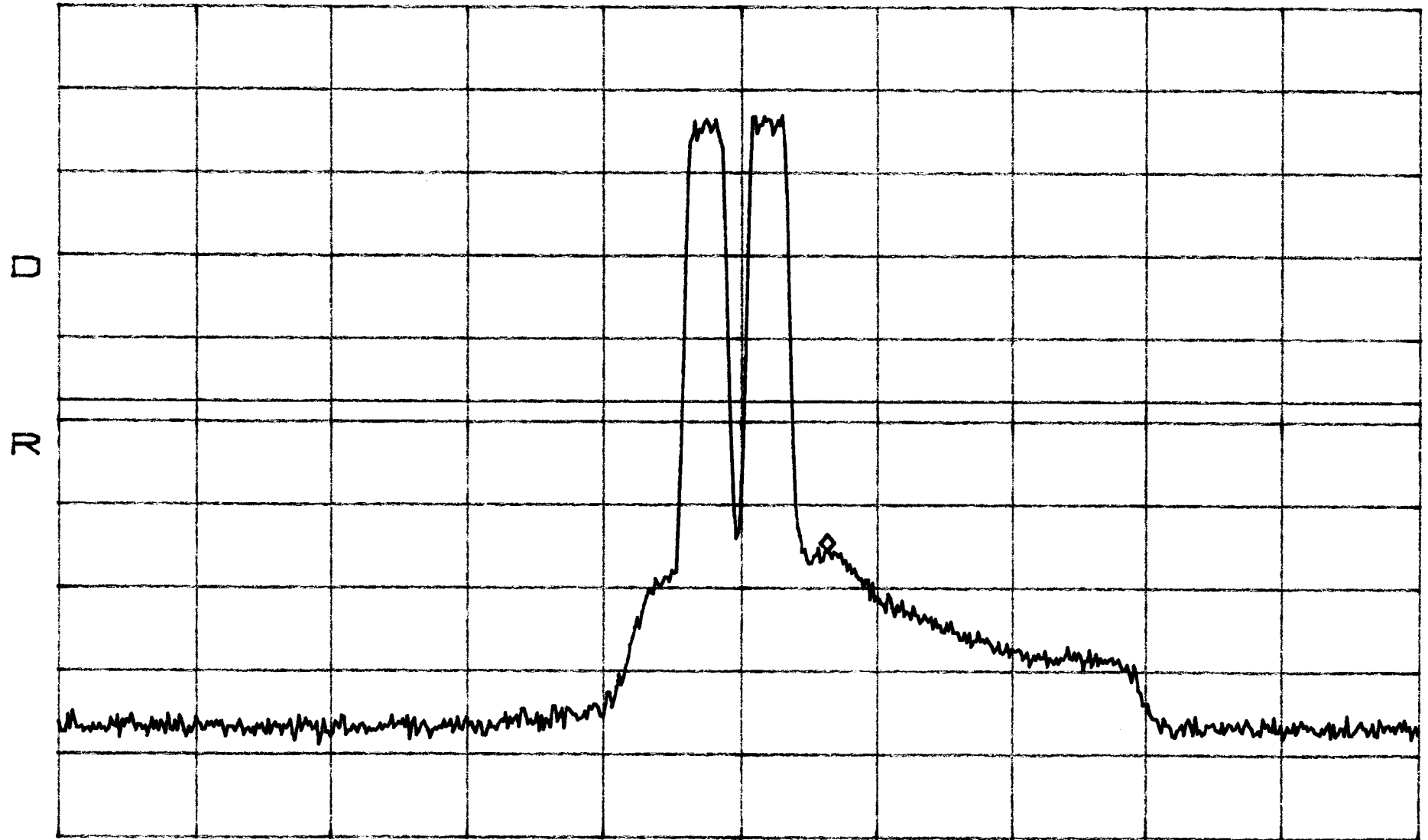
BAND C

CDMA

ATTEN 10dB  
RL 34.5dBm

VAVG 100  
10dB/

MKR -31.00dBm  
1.89992GHz



CENTER 1.89675GHz

SPAN 50.00MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms

ImD  
Close

BAND C CDMA

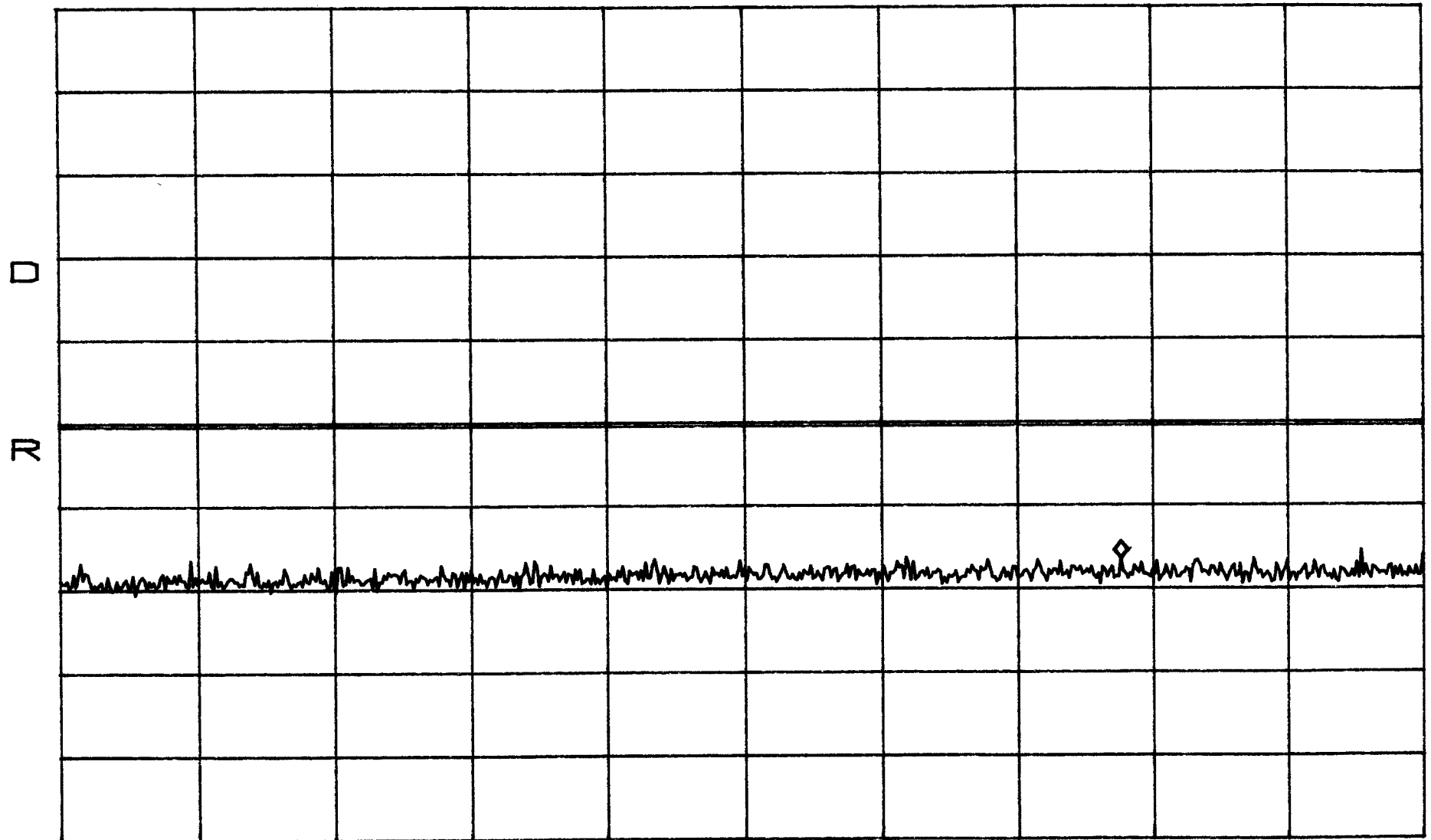
\*ATTEN 10dB

MKR -28.83dBm

RL 37.5dBm

10dB/

783.4MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

IMD  
Close

BAND C CDMA

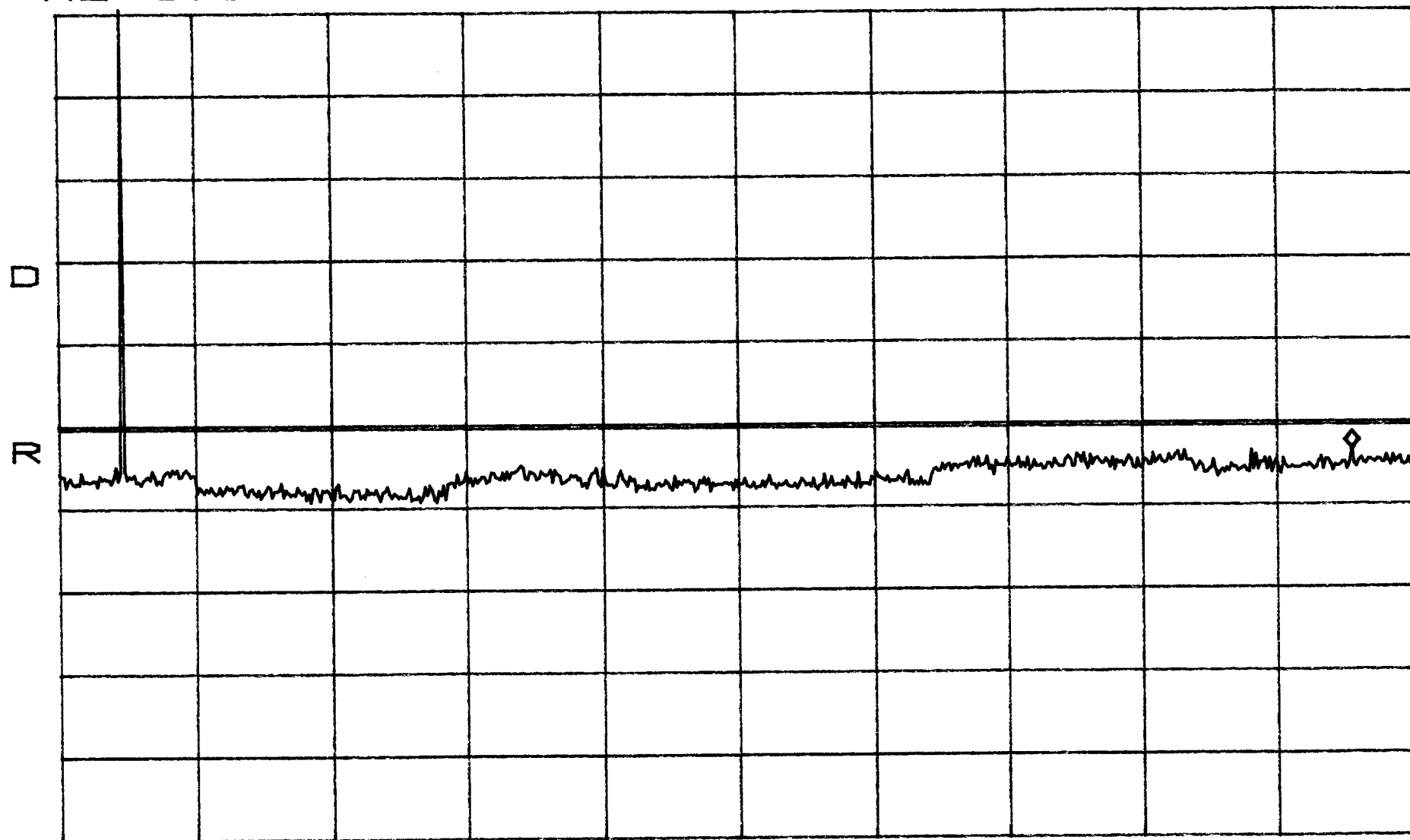
\*ATTEN 10dB

MKR -15.67dBm

RL 37.5dBm

10dB/

19.11GHz



START 1.00GHz

STOP 20.00GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 380ms

IMD  
Apert

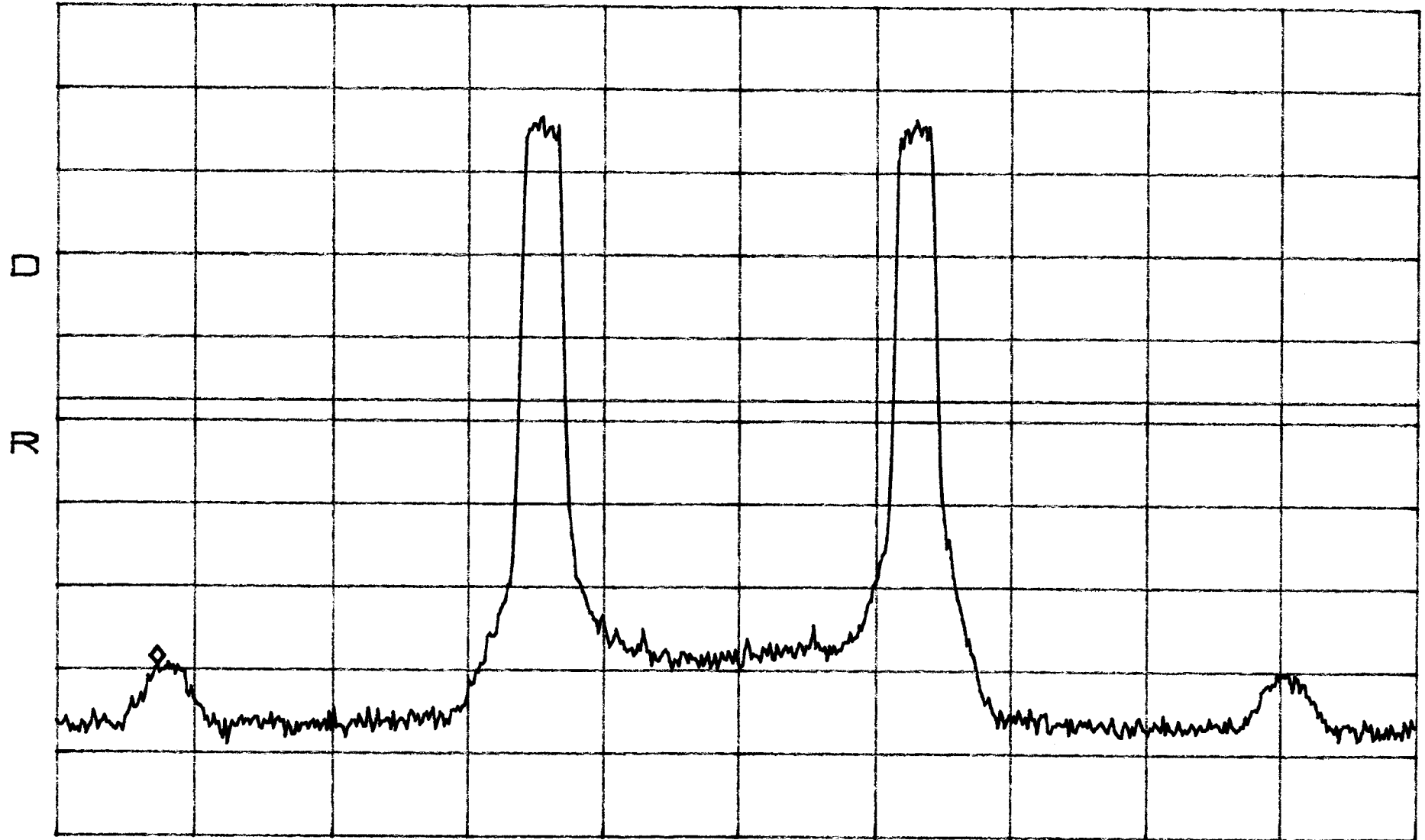
BAND C

CDMA

ATTEN 10dB  
RL 34.5dBm

VAVG 100  
10dB/

MKR -44.83dBm  
1.88142GHz



CENTER 1.90275GHz  
\*RBW 100kHz VBW 100kHz

SPAN 50.00MHz  
SWP 50ms

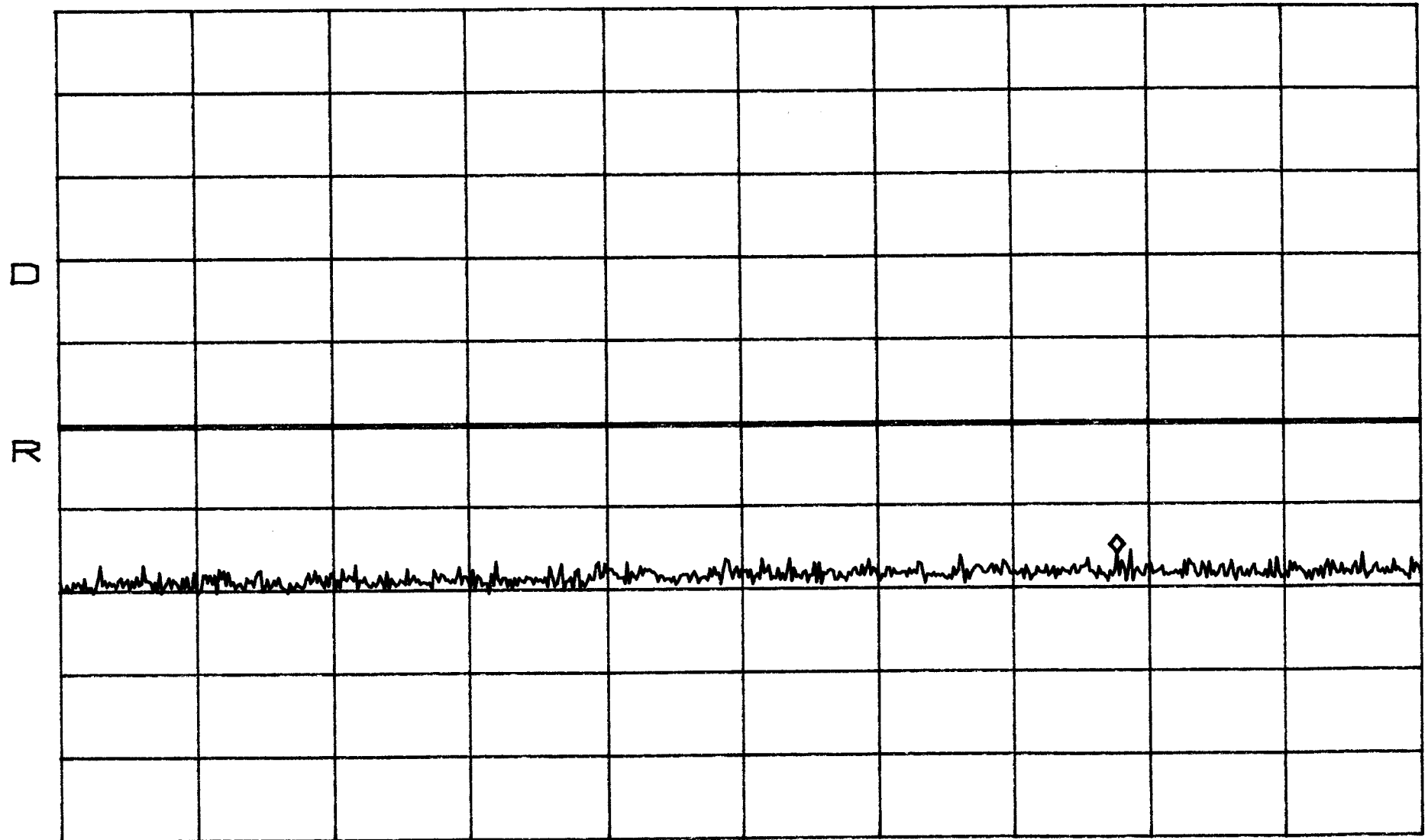
IMD  
Apert

BAND C CDMA

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -28.33dBm  
783.4MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

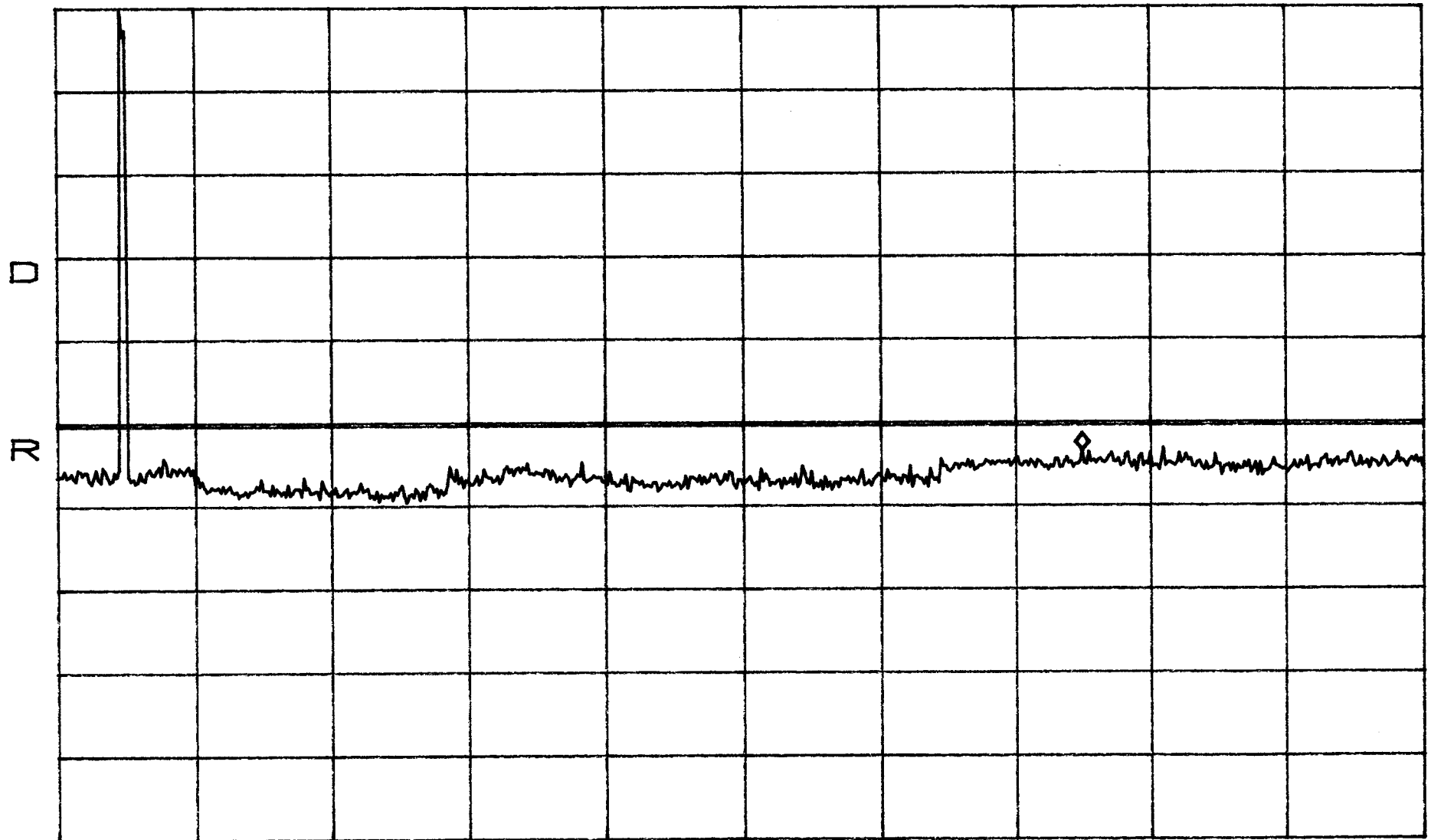
IMD  
Apert

BAND C CDMA

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -15.83dBm  
15.25GHz



START 1.00GHz

STOP 20.00GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 380ms

IMD  
close

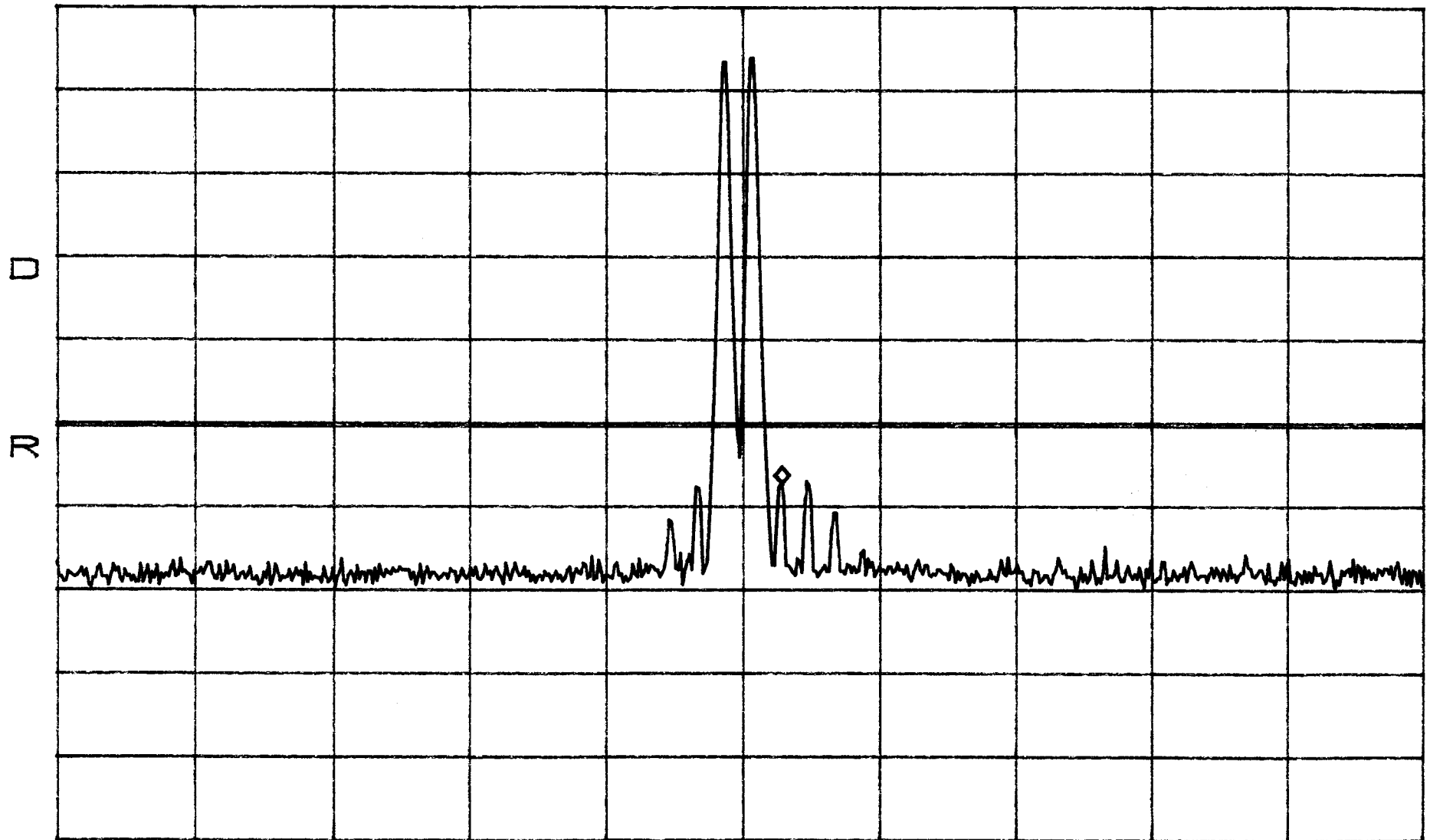
BAND D

FM

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -19.67dBm  
1.86717GHz



CENTER 1.86575GHz

SPAN 50.00MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms

IMD  
close

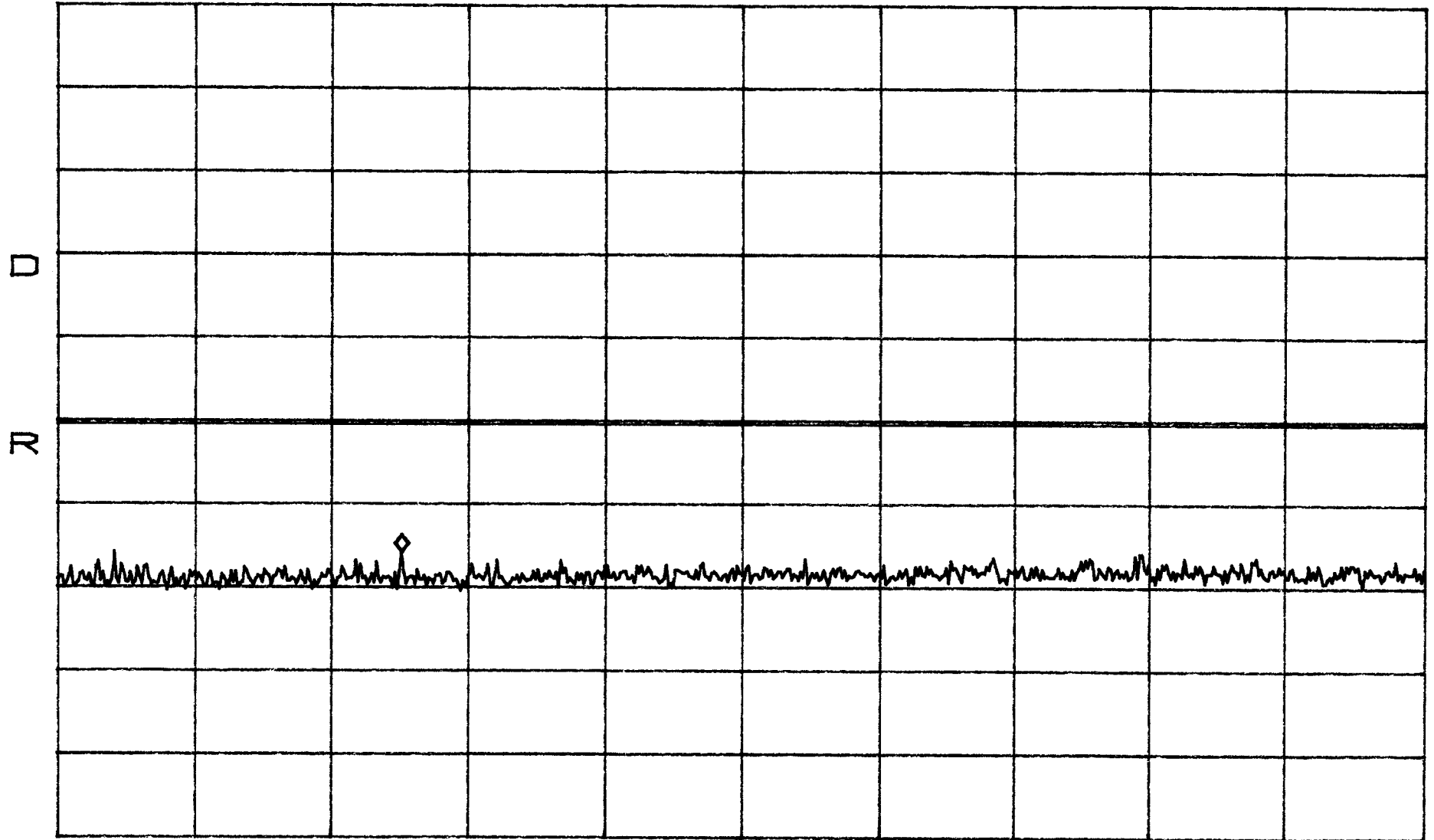
BAND D

FM

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -28.17dBm  
274.1MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

IMD  
close

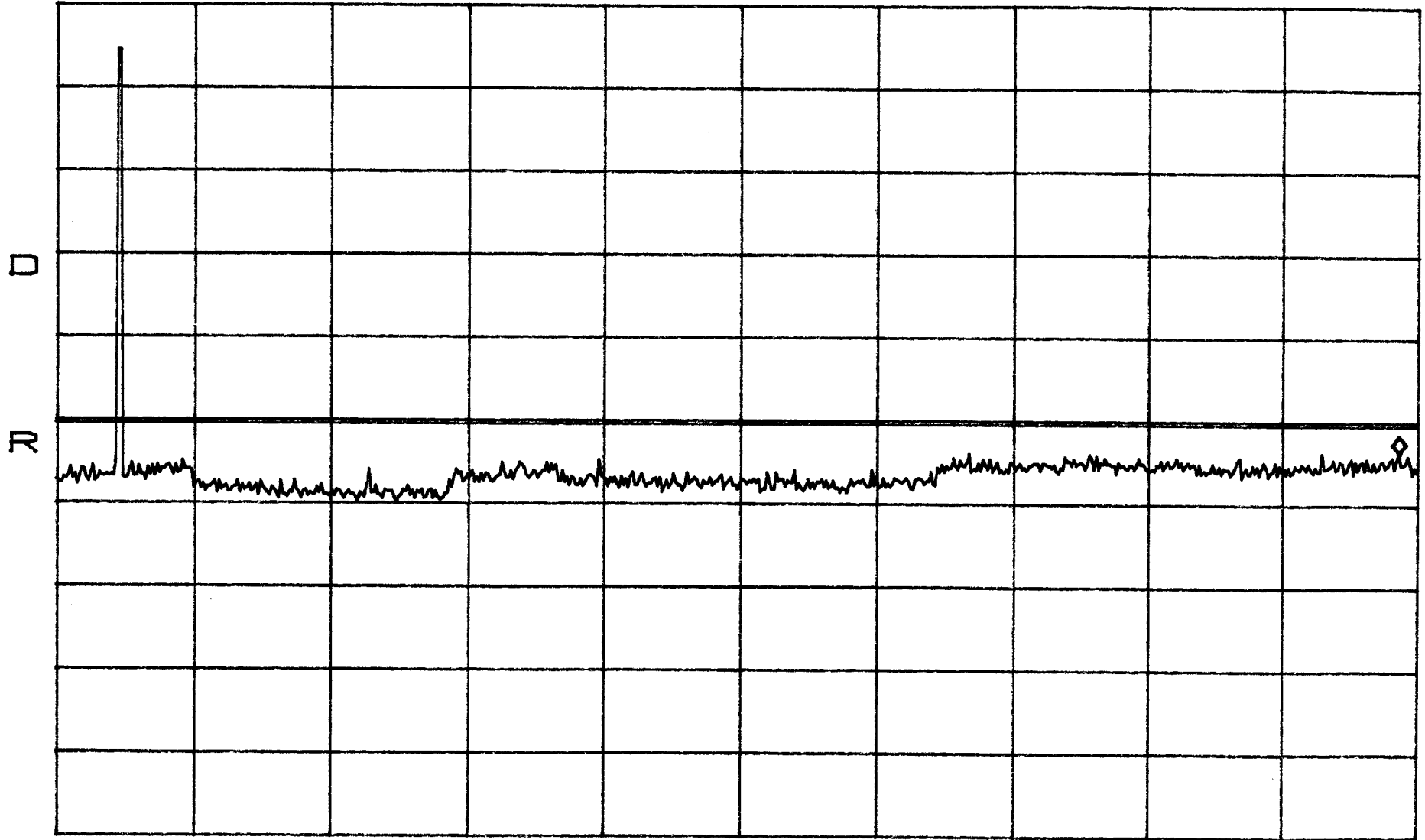
BAND D

FM

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -16.00dBm  
19.75GHz



START 1.00GHz STOP 20.00GHz  
\*RBW 1.0MHz VBW 1.0MHz SWP 380ms

IMD  
Apert

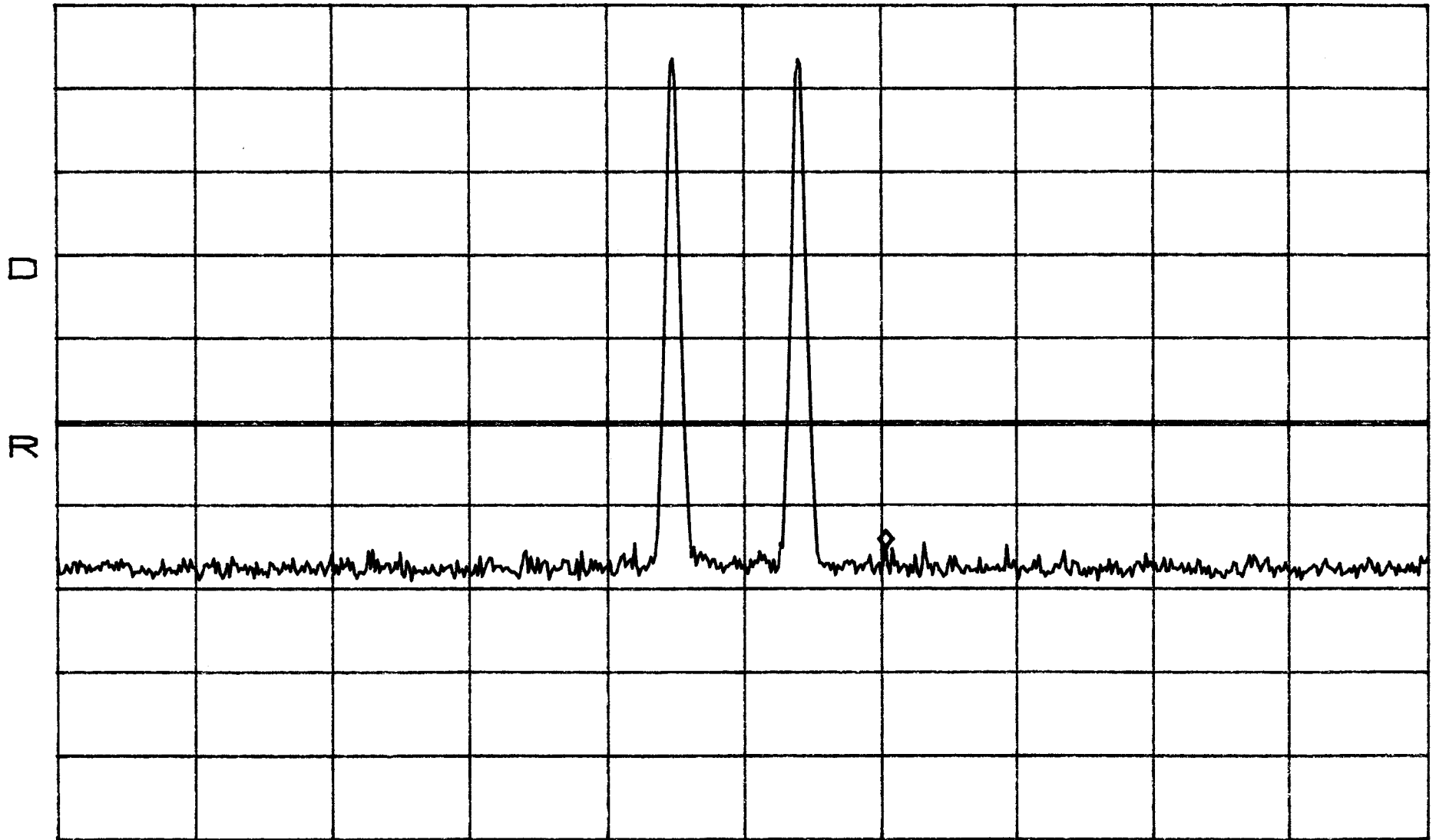
BAND D

FM

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -27.50dBm  
1.87292GHz



CENTER 1.86775GHz

SPAN 50.00MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms

IMD  
Apert

BAND D

FM

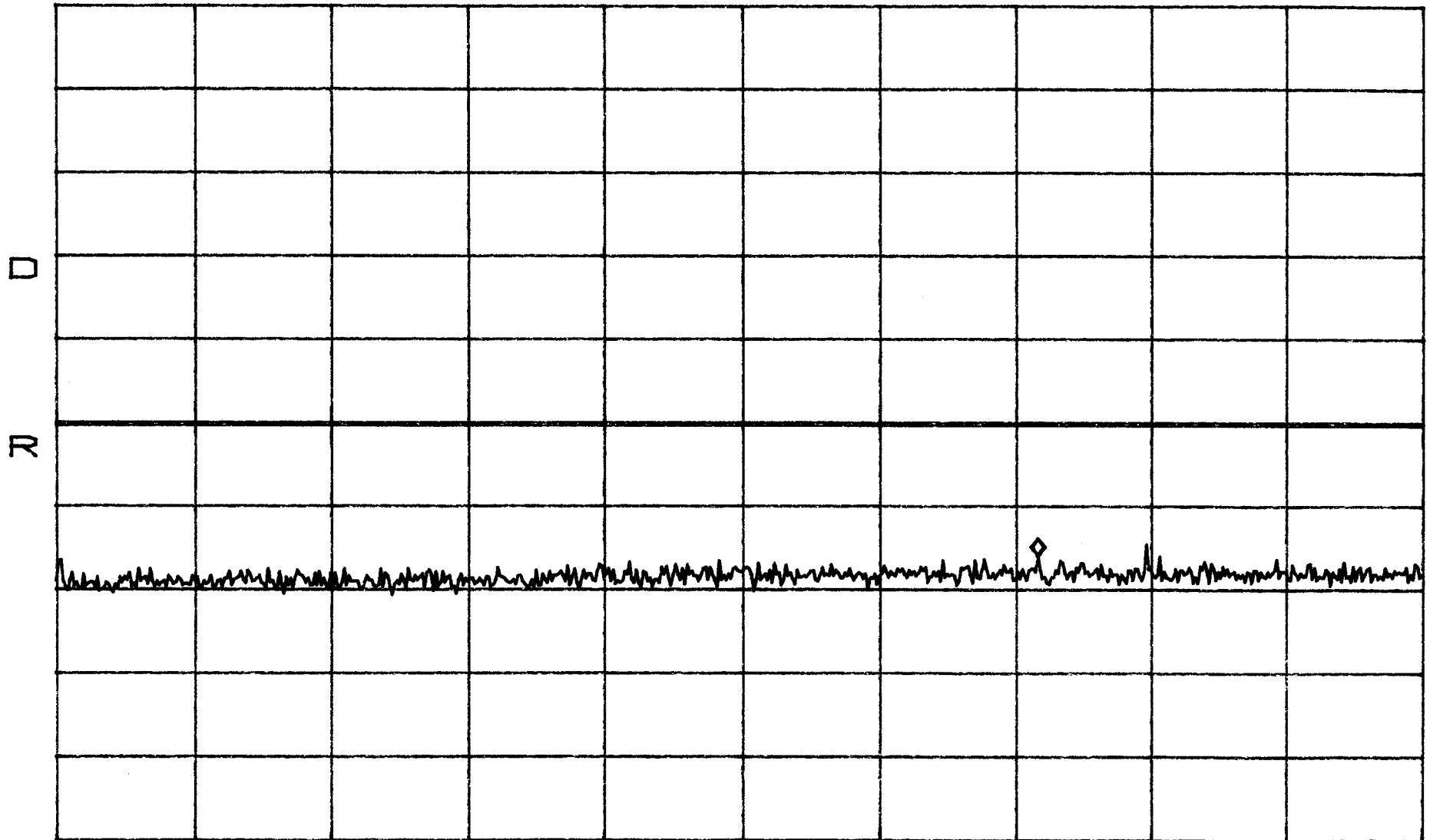
\*ATTEN 10dB

MKR -28.33dBm

RL 37.5dBm

10dB/

725.2MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

IMD  
Apert

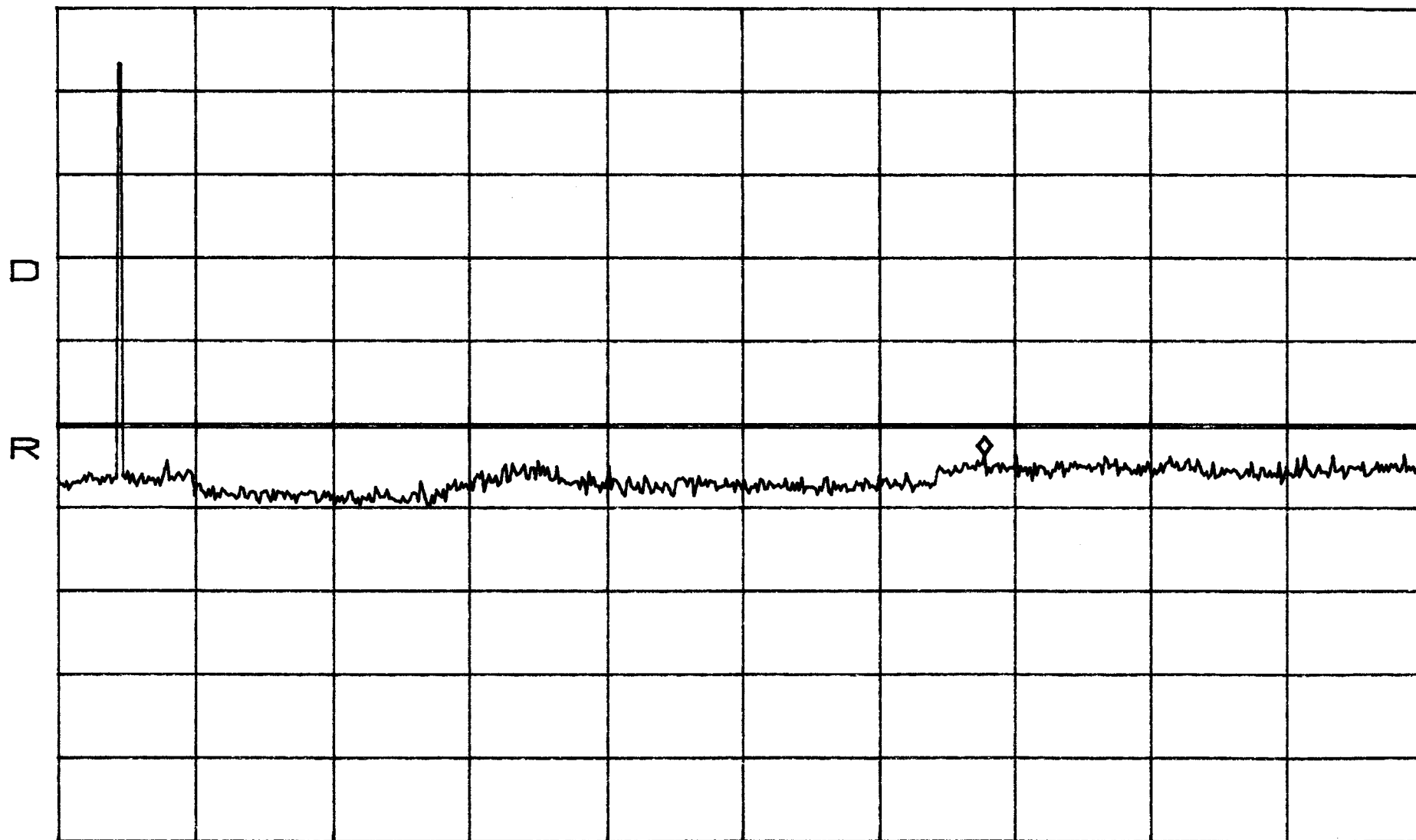
BAND D

FM

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -16.00dBm  
13.89GHz



START 1.00GHz

STOP 20.00GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 380ms

IMD  
Close

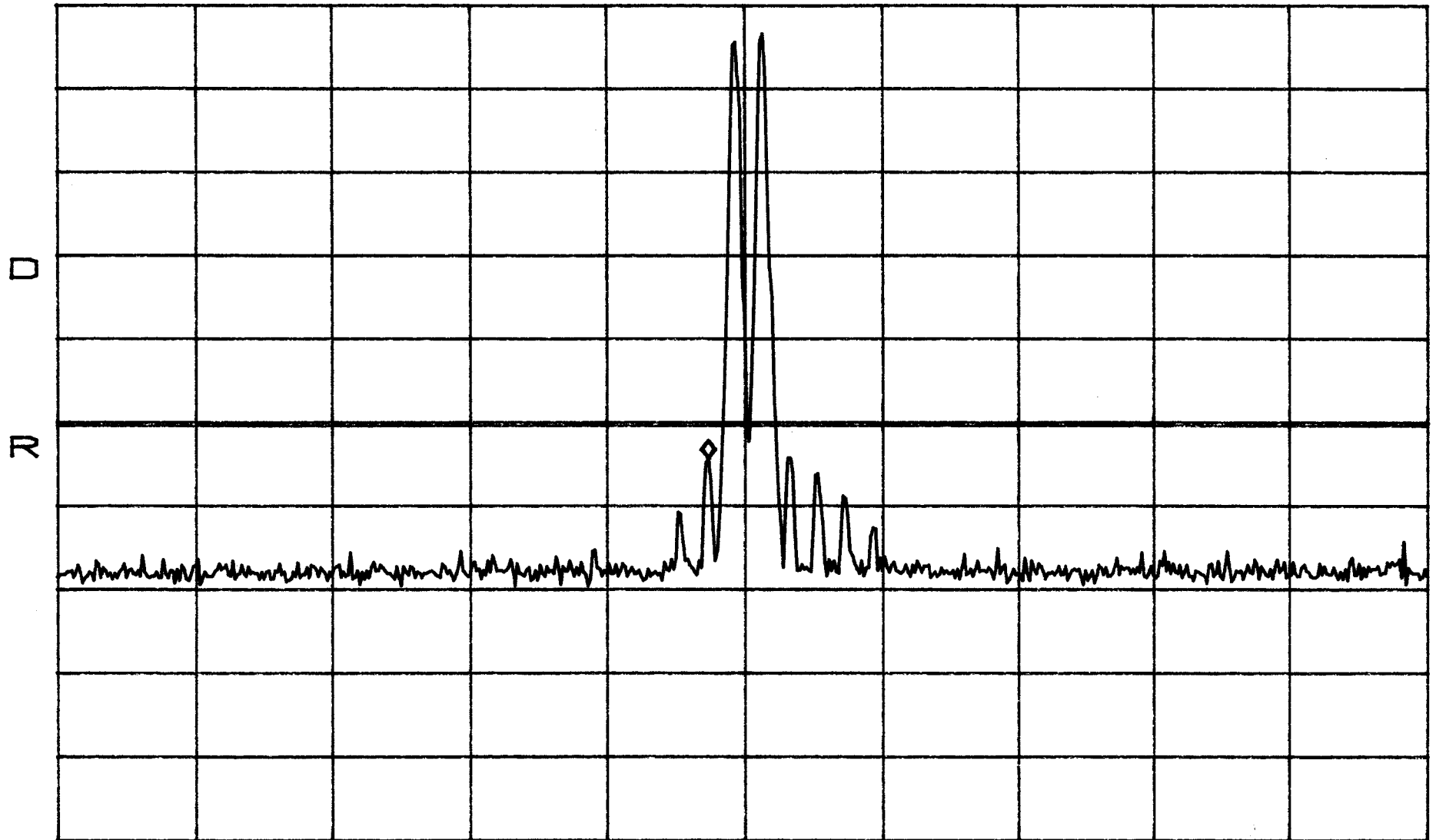
BAND D

TDMA

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -16.67dBm  
1.86417GHz



CENTER 1.86550GHz

SPAN 50.00MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms

IMD

BAND D

TDMA

Close

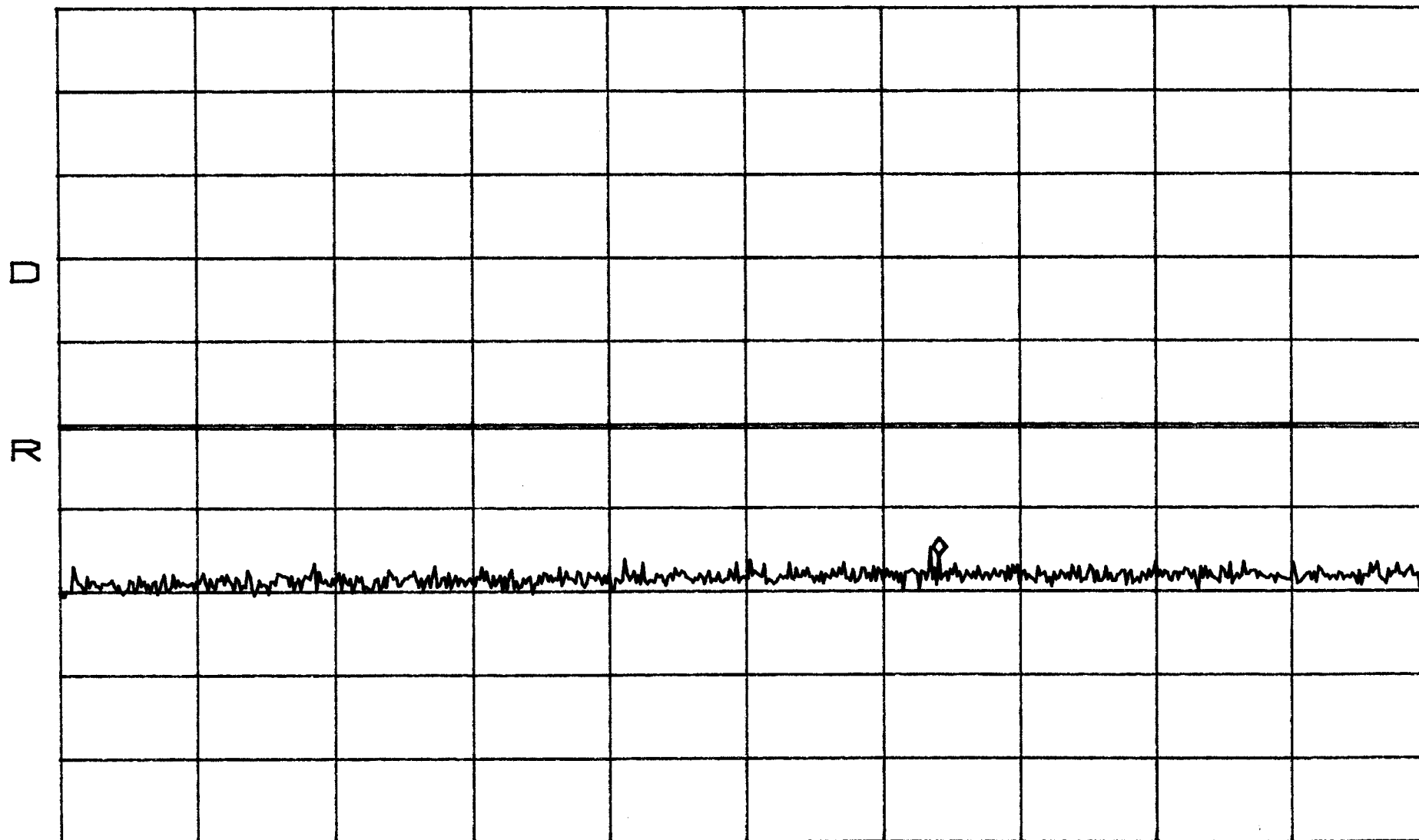
\*ATTEN 10dB

MKR -28.17dBm

RL 37.5dBm

10dB/

652.4MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

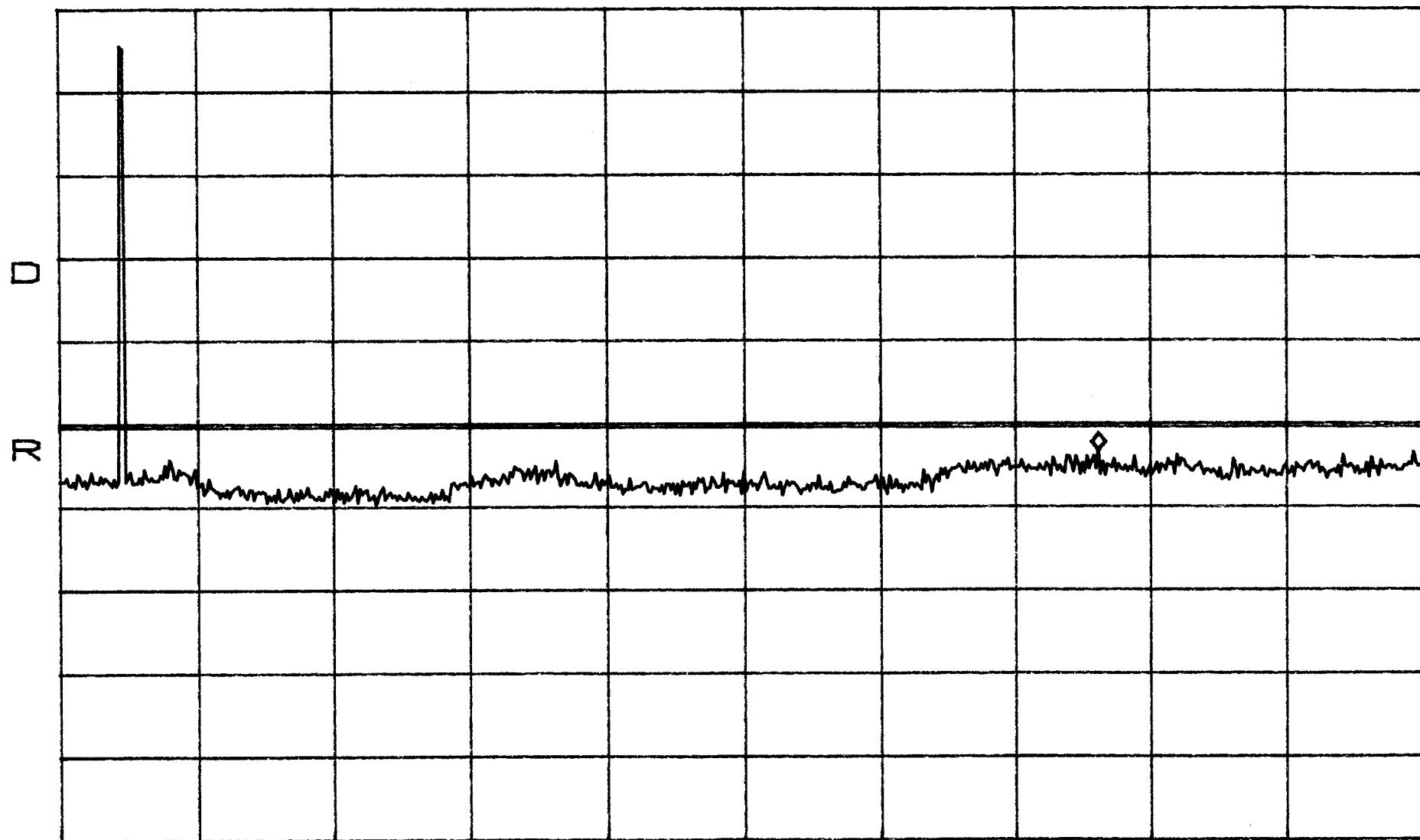
SWP 250ms

IMD BAND D TDMA  
Close

\*ATTEN 10dB  
RL 37.5dBm

MKR -15.67dBm  
15.47GHz

10dB/



START 1.00GHz

STOP 20.00GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 380ms

IMD  
Apert

BAND D

TDMA

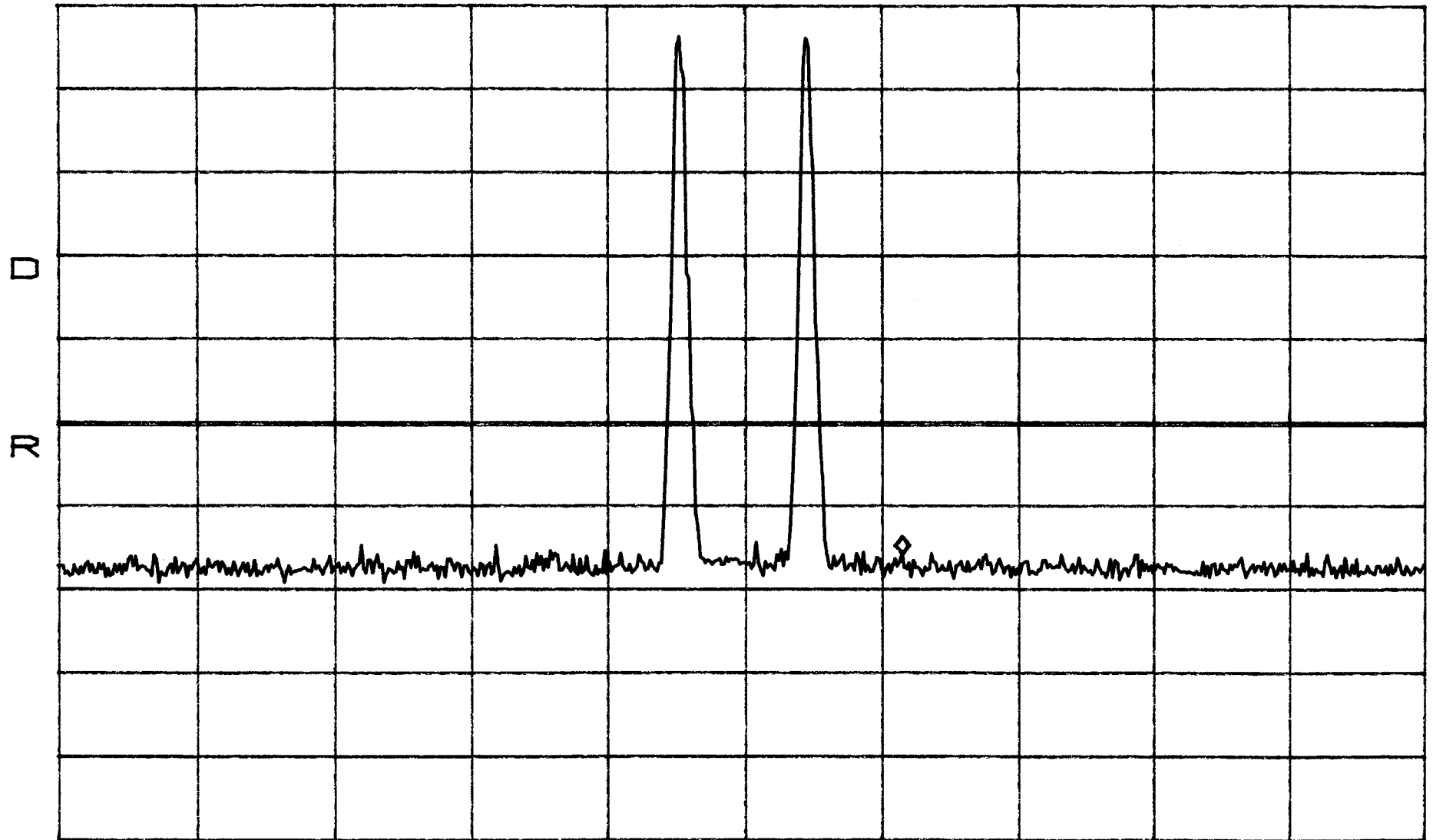
\*ATTEN 10dB

RL 37.5dBm

MKR -28.17dBm

10dB/

1.87325GHz



CENTER 1.86750GHz

SPAN 50.00MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms

IMD  
Apert

BAND D

TDMA

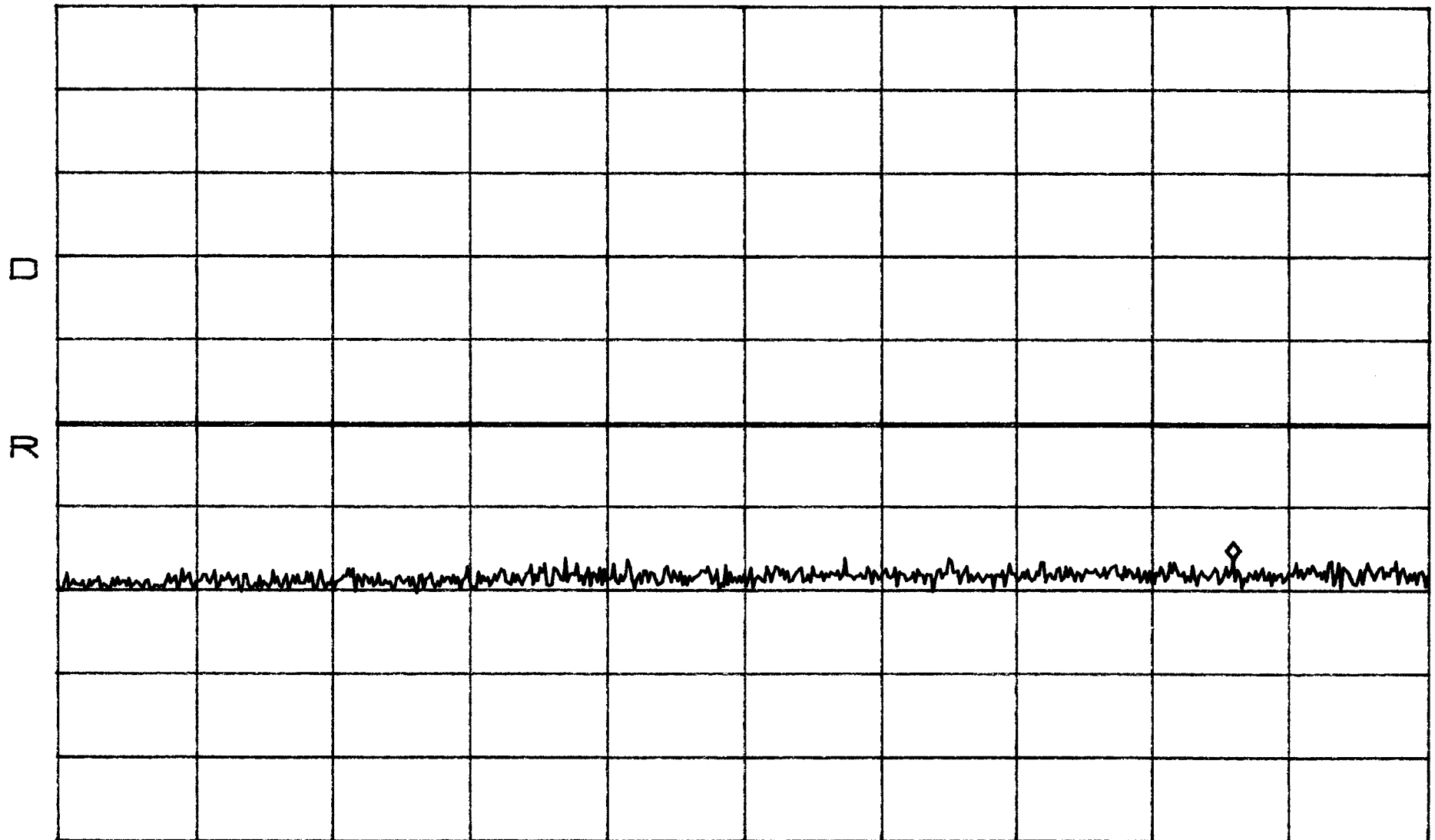
\*ATTEN 10dB

MKR -28.67dBm

RL 37.5dBm

10dB/

864.2MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

IMD  
Apert

BAND D

TDMA

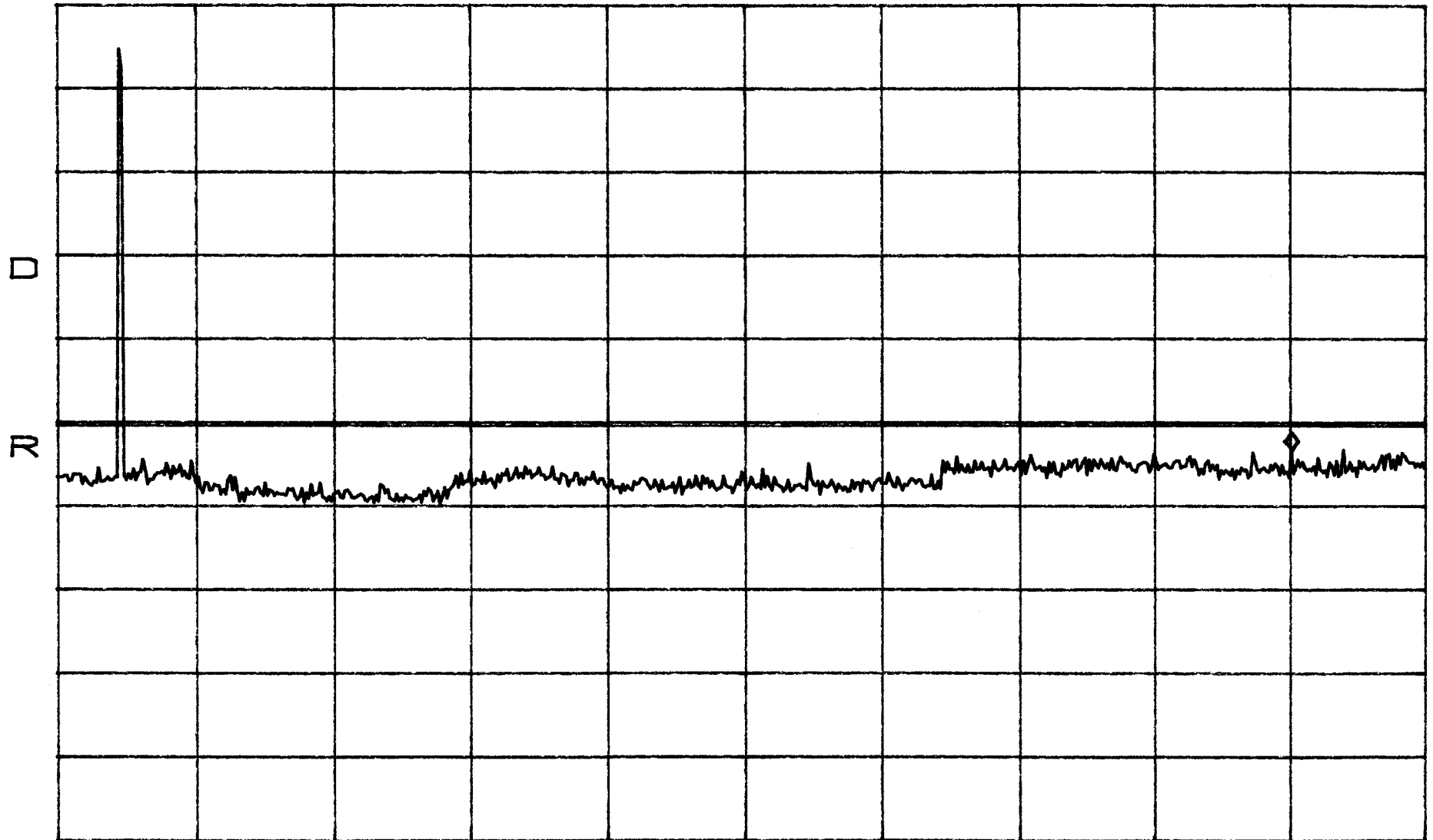
\*ATTEN 10dB

MKR -15.67dBm

RL 37.5dBm

10dB/

18.13GHz



START 1.00GHz

STOP 20.00GHz

\*RBW 1.0MHz

VBW 1.0MHz

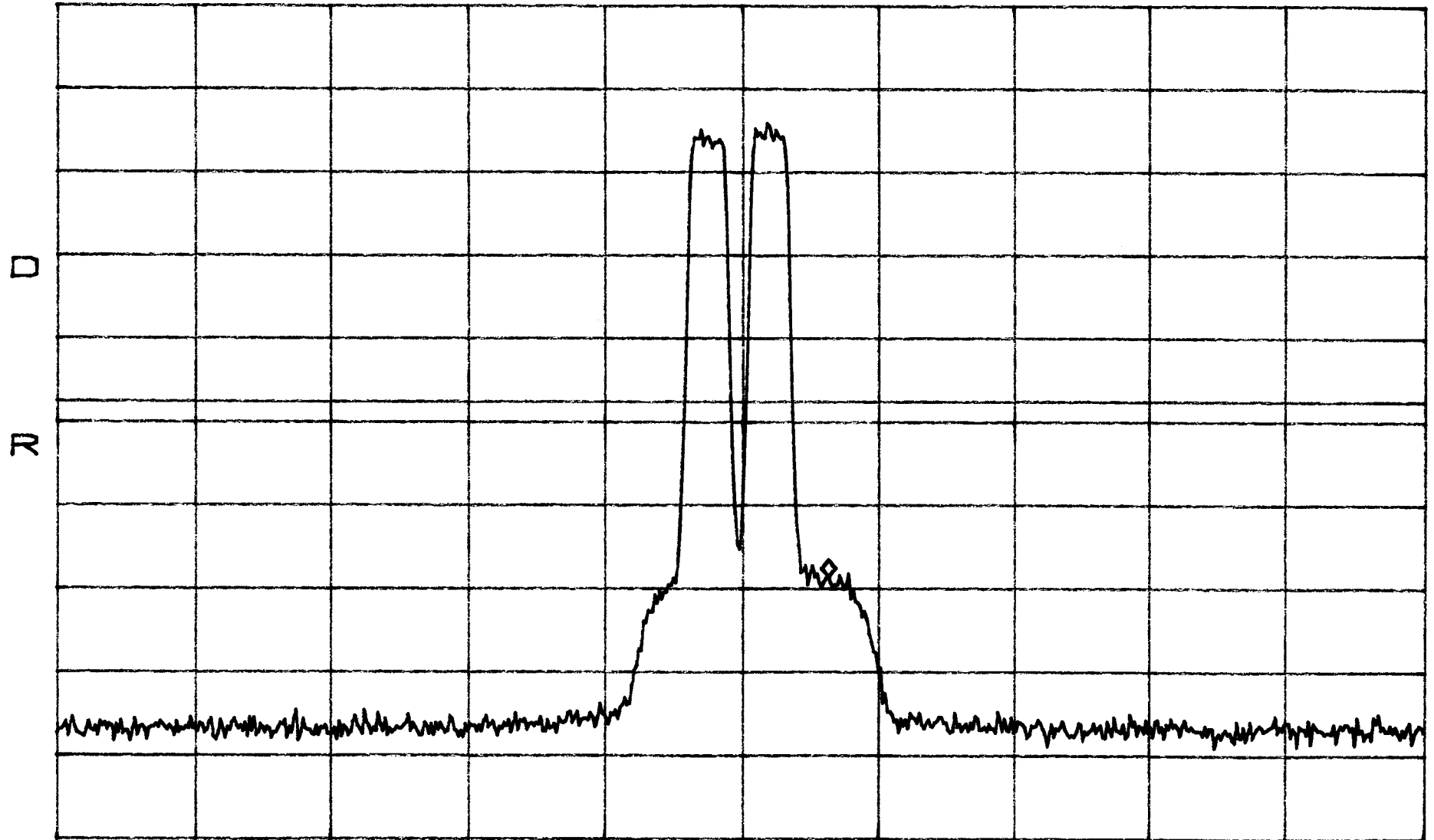
SWP 380ms

IMD  
Close

BAND D

CDMA

ATTEN 10dB VAVG 100 MKR -34.00dBm  
RL 34.5dBm 10dB/BPO 1.86992GHz



CENTER 1.86675GHz SPAN 50.00MHz  
\*RBW 100kHz VBW 100kHz SWP 50ms

IMD  
Close

BAND D CDMA

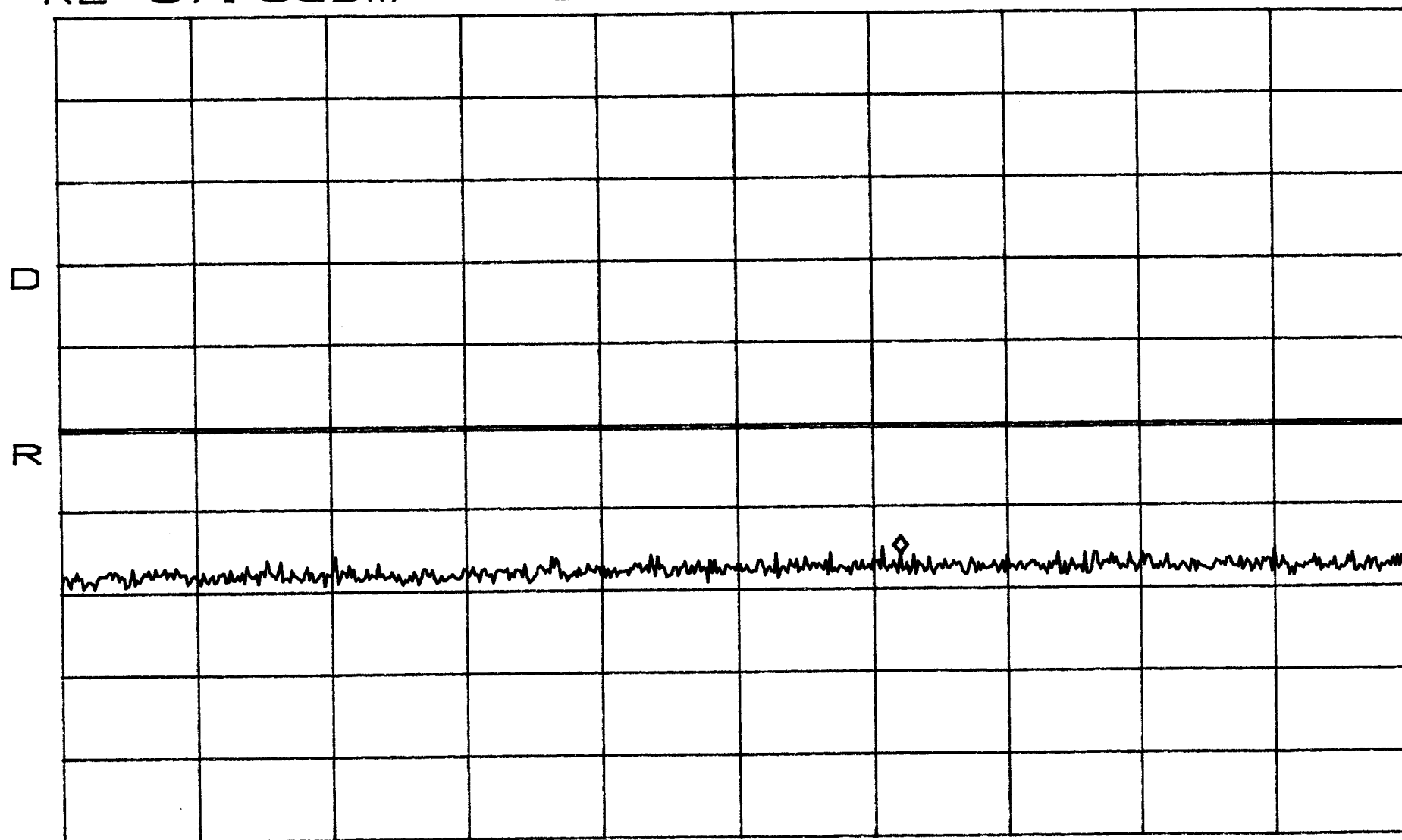
\*ATTEN 10dB

MKR -28.17dBm

RL 37.5dBm

10dB/

631.4MHz



START 30.0MHz

STOP 1.0000GHz

\*RBW 100kHz

VBW 100kHz

SWP 250ms

IMD  
Close

BAND D CDMA

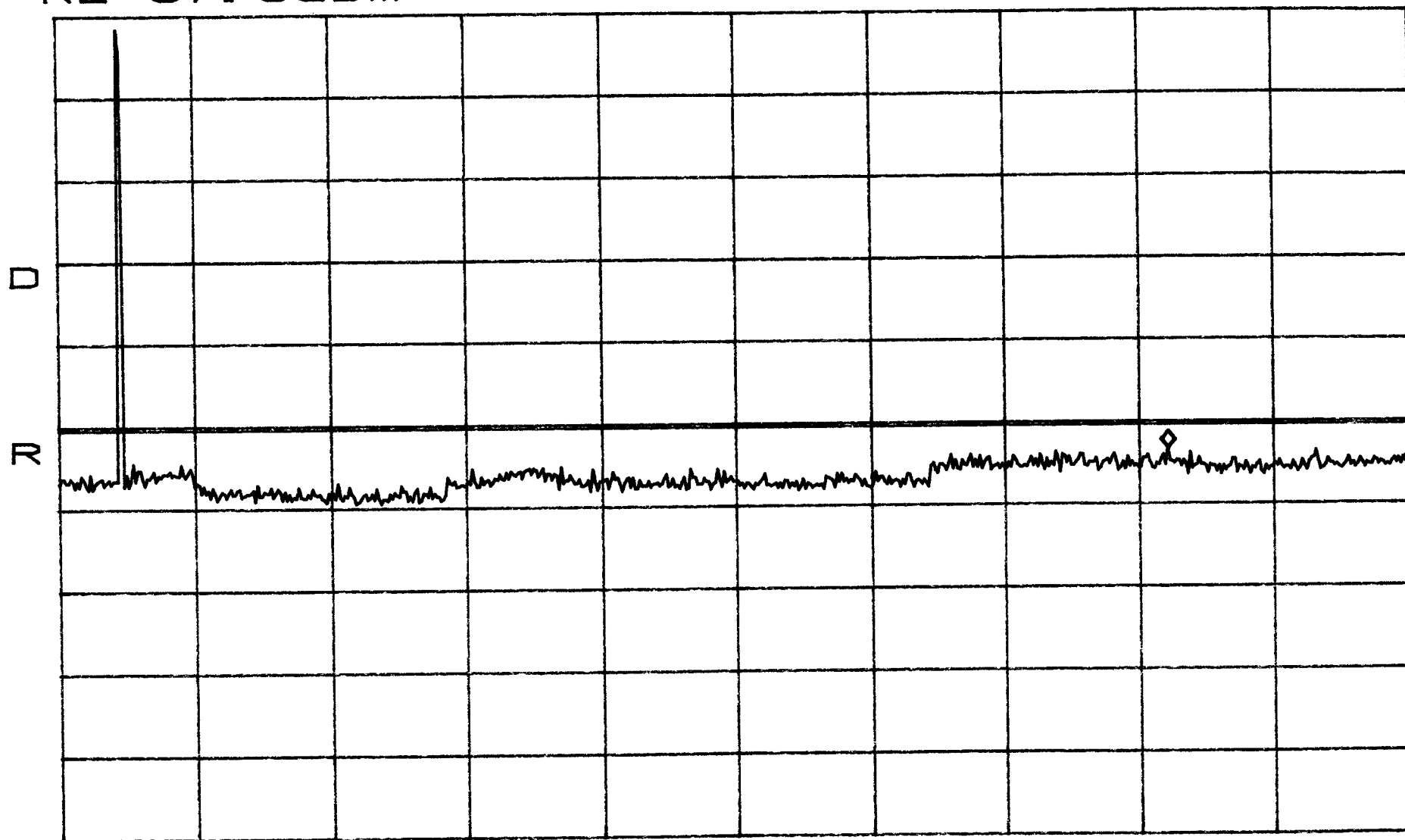
\*ATTEN 10dB

MKR -15.67dBm

RL 37.5dBm

10dB/

16.61GHz



START 1.00GHz

STOP 20.00GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 380ms

IMD  
Apert

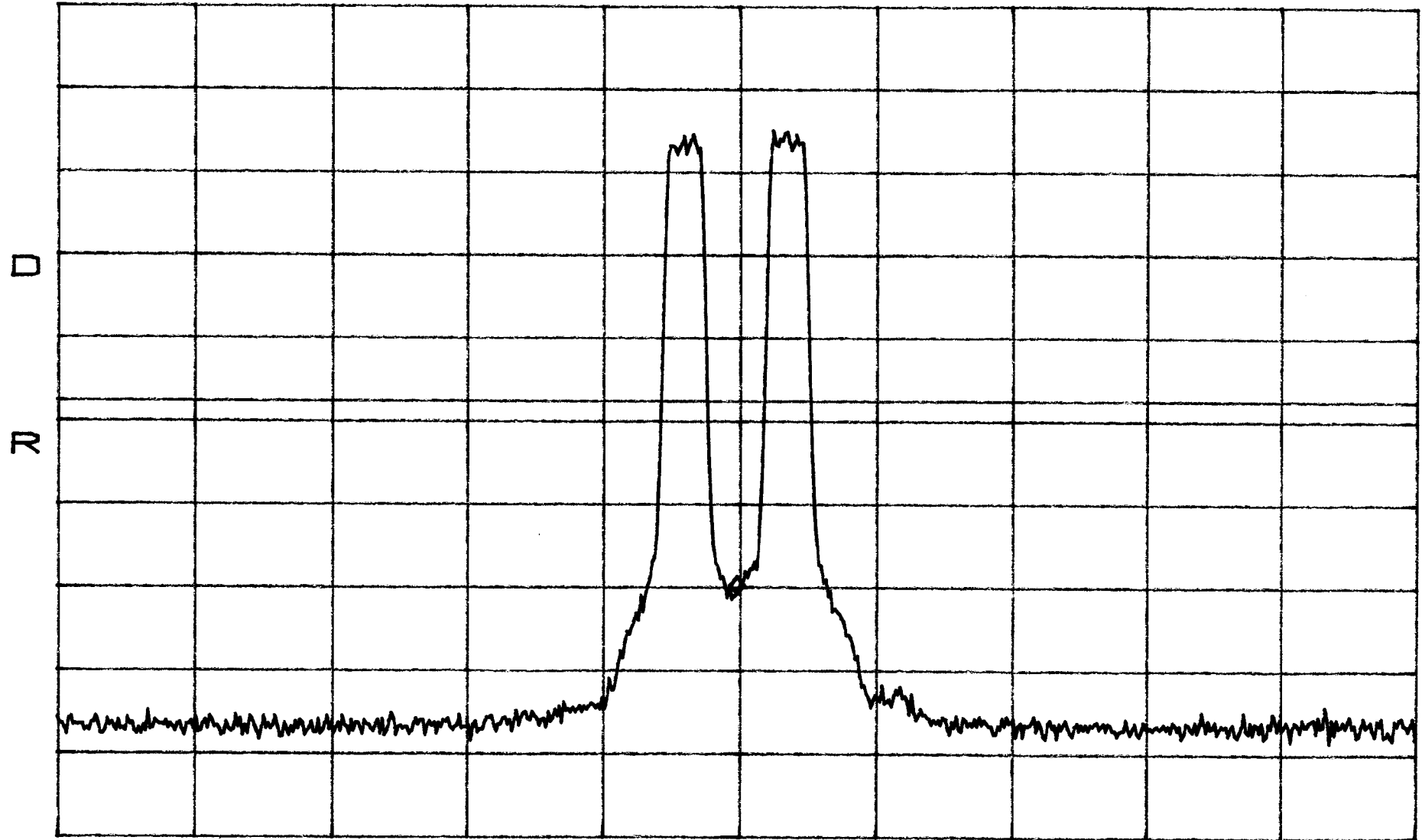
BAND D

CDMA

ATTEN 10dB  
RL 34.5dBm

VAVG 100  
10dB/

MKR -36.17dBm  
1.86742GHz



CENTER 1.86750GHz  
\*RBW 100kHz VBW 100kHz

SPAN 50.00MHz  
SWP 50ms

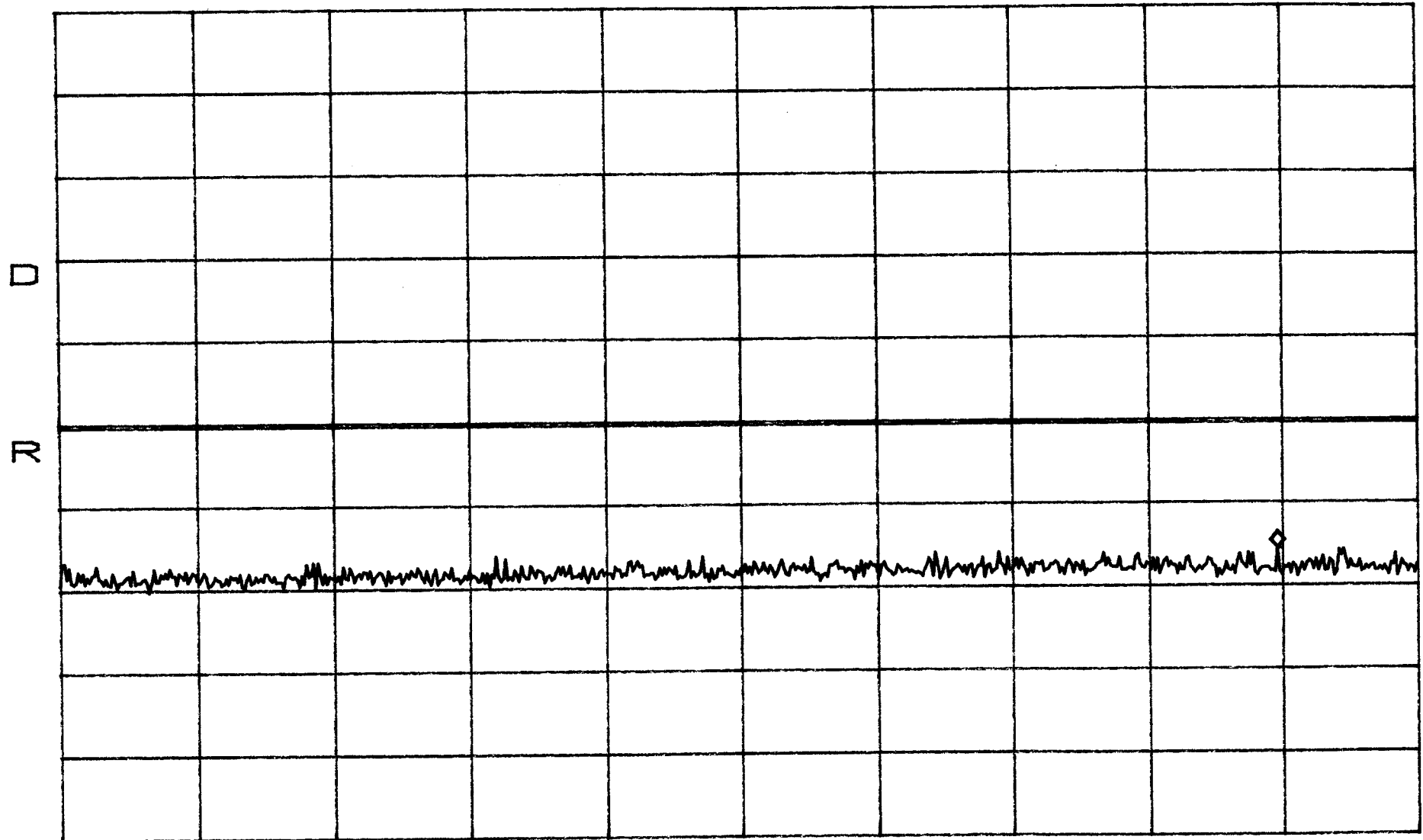
IMD  
Apert

BAND D CDMA

\*ATTEN 10dB  
RL 37.5dBm

10dB/

MKR -28.00dBm  
899.8MHz



START 30.0MHz STOP 1.0000GHz  
\*RBW 100kHz VBW 100kHz SWP 250ms

IMD  
Apert

BAND D CDMA

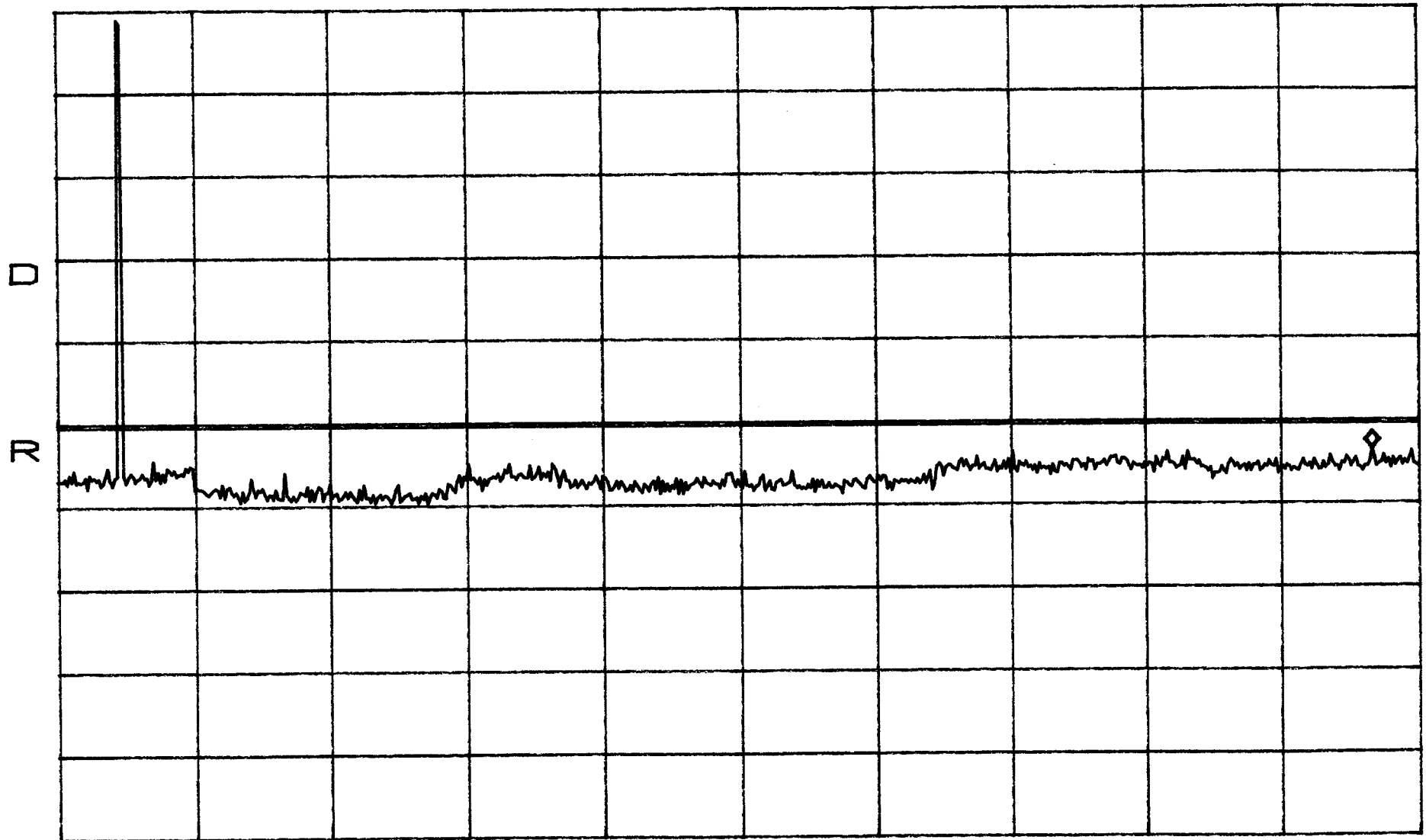
\*ATTEN 10dB

MKR -15.83dBm

RL 37.5dBm

10dB/

19.37GHz



START 1.00GHz

STOP 20.00GHz

\*RBW 1.0MHz

VBW 1.0MHz

SWP 380ms

IMD

BAND E

FM

Close

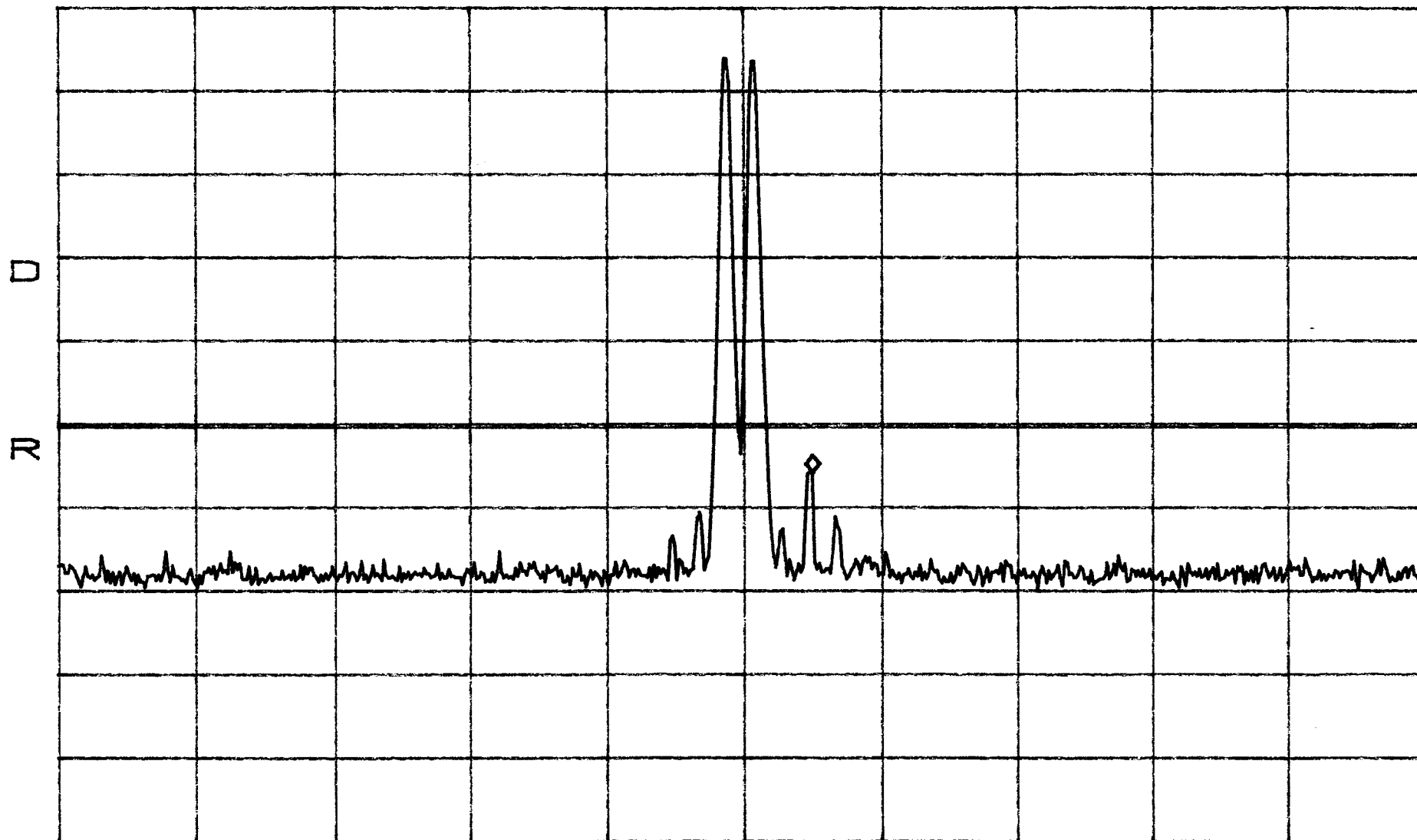
\*ATTEN 10dB

MKR -18.17dBm

RL 37.5dBm

10dB/

1.88825GHz



CENTER 1.88575GHz

SPAN 50.00MHz

\*RBW 100kHz

VBW 100kHz

SWP 50ms