

# **Intertek Testing Services**

## **APPLICATION FOR FCC CERTIFICATION**

**Giant Electronics Ltd.**

**DSSS Cordless Telephone**

**Model: G2488**

**FCC ID: K7GG2488**

**Job # J99030602**

**Report # J99030602B**

**Number of Pages: 15 + Supporting Data and Documents**

**Date of Report: January 27, 2000**

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The results contained in this report were derived from measurements performed on the identified test samples. Any implied performance of other samples on this report is dependent on the representative of the samples tested.



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1.0 Summary of Tests**DSSS Cordless Telephone – Model: G2488**  
**FCC ID: K7G2488**

| TEST                                   | REFERENCE    | RESULTS |
|----------------------------------------|--------------|---------|
| Max. Output power                      | 15.247(b)    | Pass    |
| 6 dB Bandwidth                         | 15.247(a)(2) | Pass    |
| Max. Power Density                     | 15.247(d)    | Pass    |
| Out of Band Antenna Conducted Emission | 15.247(c)    | Pass    |
| Out of Band Radiated Emission          | 15.247(c)    | N/A     |
| Radiated Emission in Restricted Bands  | 15.35(b)(c)  | Pass    |
| AC Conducted Emission                  | 15.207       | N/A     |
| Radiated Emission from Digital Part    | 15.109       | Pass    |
| Radiated Emission from Receiver L.O.   | 15.109       | N/A     |
| Processing Gain Measurements           | 15.247(e)    | Pass    |
| Antenna Requirement                    | 15.203       | Pass    |

Test Engineer: Xi-Ming Yang  
Xi-Ming YangDate: January 27, 2000Telco Manager: David Chernomordik  
David ChernomordikDate: January 27, 2000

**2.0 General Description****2.1 Product Description**

The Model G2488 is a DSSS cordless telephone. For more details, please refer to the EUT technical description.

A production version of the sample was received on December 28, 1999 in good condition.

**Overview of Model G2488**

|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant                                      | Giant Electronics Limited                                                                                                                                                                                                                                                                                                                                                                                                   |
| Trade Name & Model No.                         | Giant, G2488                                                                                                                                                                                                                                                                                                                                                                                                                |
| FCC Identifier                                 | K7GG2488                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Use of Product                                 | DSSS Cordless Telephone                                                                                                                                                                                                                                                                                                                                                                                                     |
| Manufacturer & Model of Spread Spectrum Module | Giant Electronics Limited                                                                                                                                                                                                                                                                                                                                                                                                   |
| Type of Transmission                           | Direct Sequence                                                                                                                                                                                                                                                                                                                                                                                                             |
| Rated RF Output (mW)                           | 100 mW                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Frequency Range (MHz)                          | 2404.8 – 2475.0                                                                                                                                                                                                                                                                                                                                                                                                             |
| Number of Channel(s)                           | 40                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Antenna(s) & Gain, dBi                         | 0                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Processing Gain Measurements                   | <input checked="" type="checkbox"/> Will be provided to ITS for submission with the application<br><input type="checkbox"/> Will be provided directly to the FCC reviewing engineer by the client or manufacturer of the spread spectrum module                                                                                                                                                                             |
| Antenna Requirement                            | <input checked="" type="checkbox"/> The EUT uses a permanently connected antenna.<br><input type="checkbox"/> The antenna is affixed to the EUT using a unique connector which allows for replacement of a broken antenna, but DOES NOT use a standard antenna jack or electrical connector.<br><input type="checkbox"/> The EUT requires professional installation (attach supporting documentation if using this option). |
| Manufacturer name & address                    | Giant Electronics Ltd.<br>1,2,5,6 & 11/F., Elite Building<br>Nam Tau, Shen Zhen<br>People's Republic of China                                                                                                                                                                                                                                                                                                               |

**2.2 Related Submittal(s) Grants**

None.

## 2.3 Test Methodology

Both AC mains line-conducted and radiated emissions measurements were performed according to the procedures in ANSI C63.4 (1992). Radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "Data Sheet" of this Application. All other measurements were made in accordance with the procedures in part 2 of CFR 47.

## 2.4 Test Facility

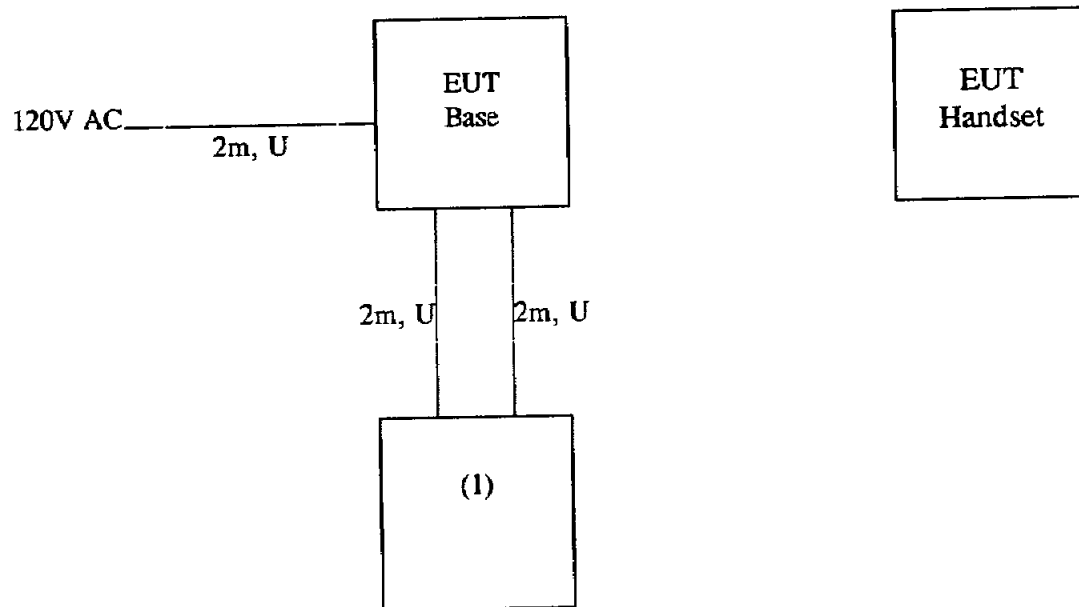
The open area test site and conducted measurement facility used to collect the radiated data is site . This test facility and site measurement data have been fully placed on file with the FCC and NVLAP accredited.

## 3.0 System Test Configuration

### 3.1 Support Equipment and description

| Support equipment |                          |              |         |        |        |
|-------------------|--------------------------|--------------|---------|--------|--------|
| Qty               | Equipment                | Manufacturer | Model # | S/N #  | FCC ID |
| 1                 | Telephone Line Simulator | Teltone      | TLS-3   | 022733 | N/A    |

### 3.2 Block Diagram of Test Setup



• = EUT  
\*\* = No ferrites on video cable

S = Shielded  
U = Unshielded

F = With Ferrite

### **3.3 Justification**

For emission testing, the equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). During testing, all cables were manipulated to produce worst case emissions.

For radiated emission measurements, the EUT is attached to a cardboard box (if necessary) and placed on the wooden turntable. If the EUT attaches to peripherals, they are connected and operational (as typical as possible). The EUT is wired to transmit full power.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance.

### **3.4 Software Exercise Program**

The EUT exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. For emissions testing, the units were setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing.

### **3.5 Mode of Operation During Test**

The EUT was running in a transmitting mode.

### **3.6 Modifications Required for Compliance**

The following modifications were installed during compliance testing in order to bring the product into compliance (Please note that this list does not include changes made specifically by prior to compliance testing):

No modifications were made to the EUT by Intertek Testing Services.

### **3.7 Additions, deviations and exclusions from standards**

No additions, deviations or exclusion have been made from standard.

## 4.0 Measurement Results

### 4.1 Maximum Radiated Output Power, FCC RULES 15.247(b):

#### Test Procedure

The EUT was positioned on a non-conductive turntable, 0.8m above the ground plane on an open test site.

The radiated emission at the fundamental frequency was measured at 3m distance with a test antenna and spectrum analyzer. During the measurement, the resolution and video bandwidth of the spectrum analyzer were set to 1 MHz. To maximize emissions, the system was rotated through 360°, the antenna height was varied from 1m to 4m, and the antenna polarization was changed.

The ERP was calculated using equation:

$$E = \frac{\sqrt{30 \cdot P \cdot G}}{D}$$

Where E = Field Strength (V/m),

D = Distance between two antennae(m)

G = Numeric Gain of Antenna (1 for isotropic antenna),

P = ERP (W) = EIRP (G=1)

| Base               |               |                 |
|--------------------|---------------|-----------------|
| Frequency (MHz)    | Output in dBm | Output in mWatt |
| Low Channel: 1     | 19.2          | 84.6            |
| Middle Channel: 20 | 19.4          | 88.7            |
| High Channel: 40   | 19.7          | 94.8            |

Please refer to the following plots:

Plot B1a: Low Channel, Spectrum Analyzer Reading (Base)

Plot B1b: Middle Channel, Spectrum Analyzer Reading (Base)

Plot B1c: High Channel, Spectrum Analyzer Reading (Base)

Data Sheet - Radiated Emission (Output Power)

| Handset            |               |                 |
|--------------------|---------------|-----------------|
| Frequency (MHz)    | Output in dBm | Output in mWatt |
| Low Channel: 1     | 18.2          | 67.2            |
| Middle Channel: 20 | 18.6          | 73.6            |
| High Channel: 40   | 19.4          | 88.6            |

Please refer to the following plots:

Plot H1a: Low Channel, Spectrum Analyzer Reading (Handset)

Plot H1b: Middle Channel Output Power Reading (Handset)

Plot H1c: High Channel Output Power Reading (Handset)

### Radiated Emissions Test Data

|                   |                                |                      |                   |                  |           |
|-------------------|--------------------------------|----------------------|-------------------|------------------|-----------|
| <b>Company:</b>   | Giant Electronics Limited      | <b>Model #:</b>      | G2488             | <b>Reg</b>       | FCC 2 993 |
| <b>EUT:</b>       | Cordless Phone Base            | <b>S/N or FCC #:</b> |                   | <b>Test Dist</b> | 3 meter s |
| <b>Project #:</b> | J9903060<br>2                  | <b>Test Date:</b>    | December 28, 1999 | <b>TP</b>        | 0.04 Watt |
| <b>Test Mode:</b> | Tx Power for Low, Mid, Hing Ch | <b>Engineer:</b>     | Xi Ming Y.        | <b>Min. Attn</b> | 29.13 dBc |

|         | Antenna Used |              |        | Pre-Amp Used |           |         | Cable Used |      |         | Transducer Used |
|---------|--------------|--------------|--------|--------------|-----------|---------|------------|------|---------|-----------------|
| Number: | 2            | 14           | 21     | 0            | 8         | 13      | 0          | 0    | 12      | 0               |
| Model:  | EMCO<br>3143 | EMCO<br>3115 | 3160-9 | None         | CDL_P1000 | ACO/400 | None       | None | Grt_M+L | None            |

[illegible]

**Notes:**

- a) O.C.F.: Other Correction Factor  
b) Insert Loss = Cable A + Cable B + Cable C + Transducer  
c) Net = Reading + Antenna Factor - Pre-Amp + Insert Loss  
d) Attn. = Field Strength (Fundamental) - Field Strength (Harmonics)  
e) Negative signs (-) in Margin column signify levels below the limits

### Radiated Emissions Test Data

|                   |                                 |                      |                   |                  |            |
|-------------------|---------------------------------|----------------------|-------------------|------------------|------------|
| <b>Company:</b>   | Giant Electronics Limited       | <b>Model #:</b>      | G2488             | <b>Reg</b>       | FCC 15.247 |
| <b>EUT:</b>       | Cordless Phone Hand set         | <b>S/N or FCC #:</b> |                   | <b>Test Dist</b> | 3 meters   |
| <b>Project #:</b> | J99030602                       | <b>Test Date:</b>    | December 28, 1999 | <b>TP</b>        | Watt       |
| <b>Test Mode:</b> | Tx Power for Low, Mid, High Ch. | <b>Engineer:</b>     | Xi Ming Y.        | <b>Min. Attn</b> | dBc        |

|         | Antenna Used |              |        | Pre-Amp Used |           |        | Cable Used |      |         | Transducer Used |
|---------|--------------|--------------|--------|--------------|-----------|--------|------------|------|---------|-----------------|
| Number: | 2            | 14           | 21     | 0            | 8         | 13     | 0          | 0    | 12      | 0               |
| Model:  | EMCO<br>3143 | EMCO<br>3115 | 3160-9 | None         | CDI_P1000 | ACO400 | None       | None | Grn_M+L | None            |

[illegible]

**Notes:**

- a) O.C.F. Other Correction Factor  
b) Insert Loss = Cable A + Cable B + Cable C + Transducer.  
c) Net = Reading + Antenna Factor - Pre-Amp + Insert. Loss.  
d) Attn = Field Strength (Fundamental) - Field Strength (Harmonics).  
e) Negative signs (-) in Margin column signify levels below the limits.

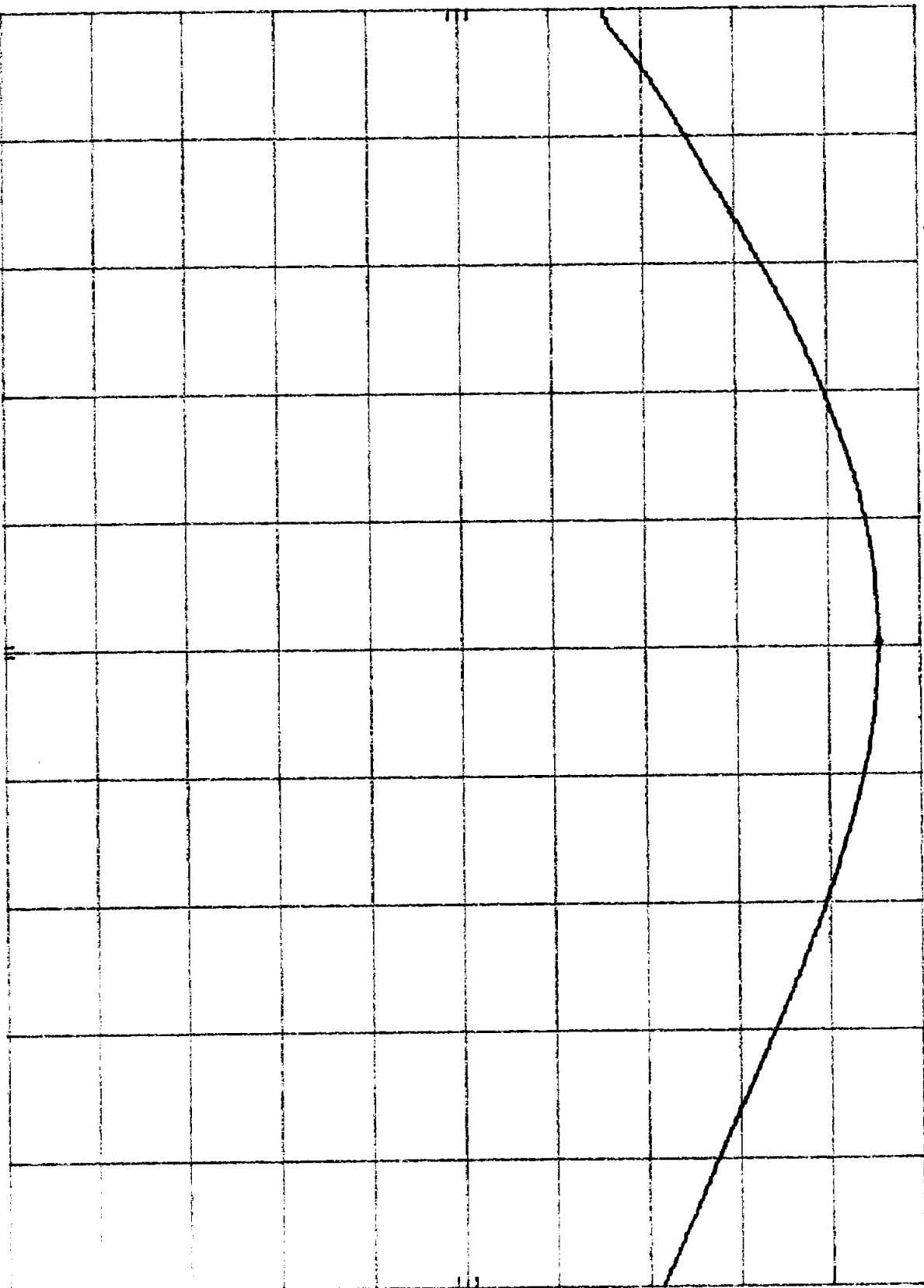
hp

10 dB/

REF 86.6 dBμV ATTEN 0 dB

Plot B1a

MKR 2.404 76 GHz  
82.10 dBμV



CENTER 2.404 8 GHz  
RES BW 3 MHz

VBW 3 MHz

SPAN 10.0 MHz  
SWP 20.0 msec

HP

REF 86.6 dBμV

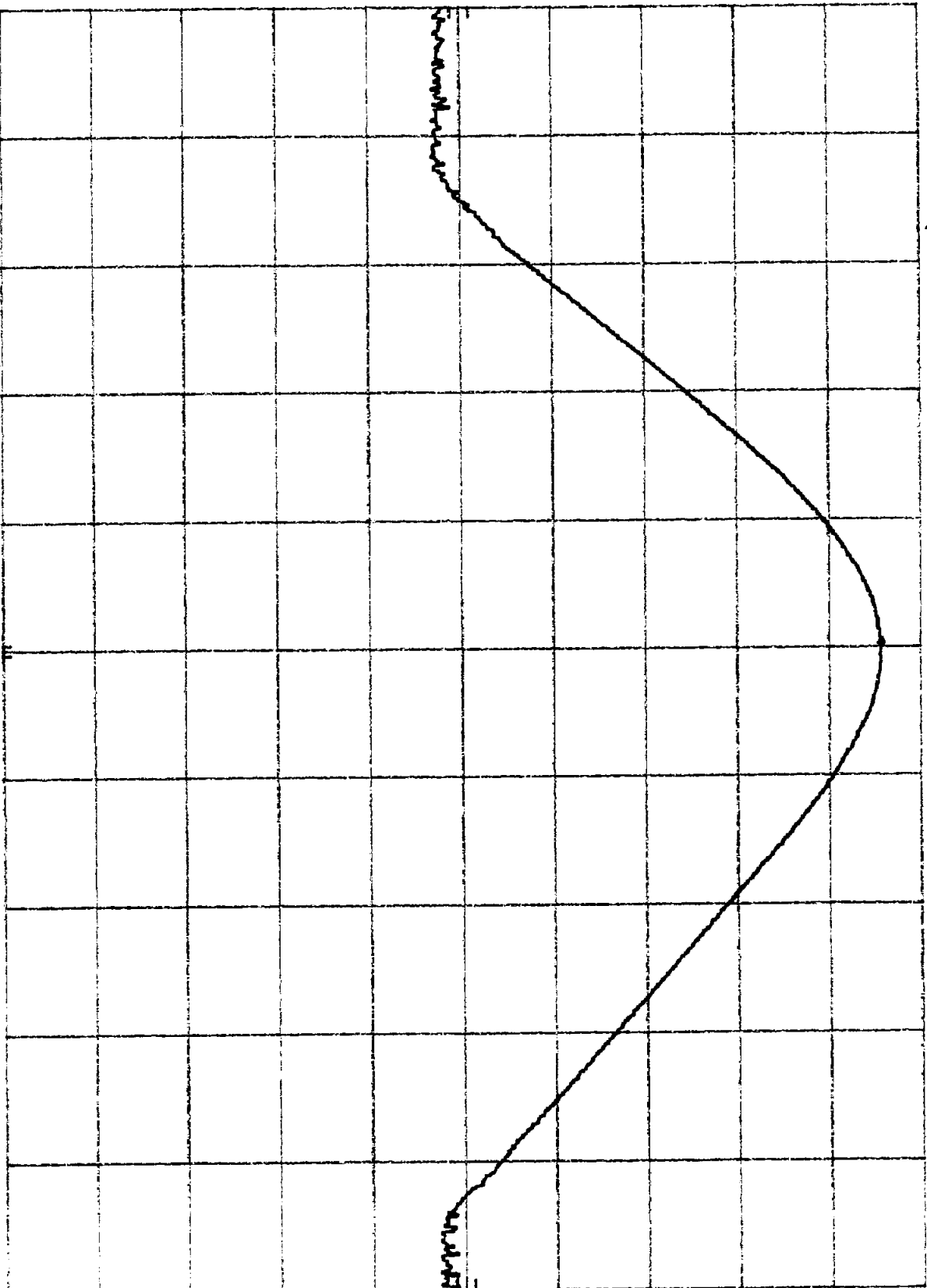
ATTEN 0 dB

Mod B1b

MKR 2.440 72 GHz

82.30 dBμV

10 dB/



CENTER 2.440 8 GHz

RES BW 3 MHz

VBW 3 MHz

SPAN 20.0 MHz

SWP 20.0 msec

HP

REF 86.6 dBμV

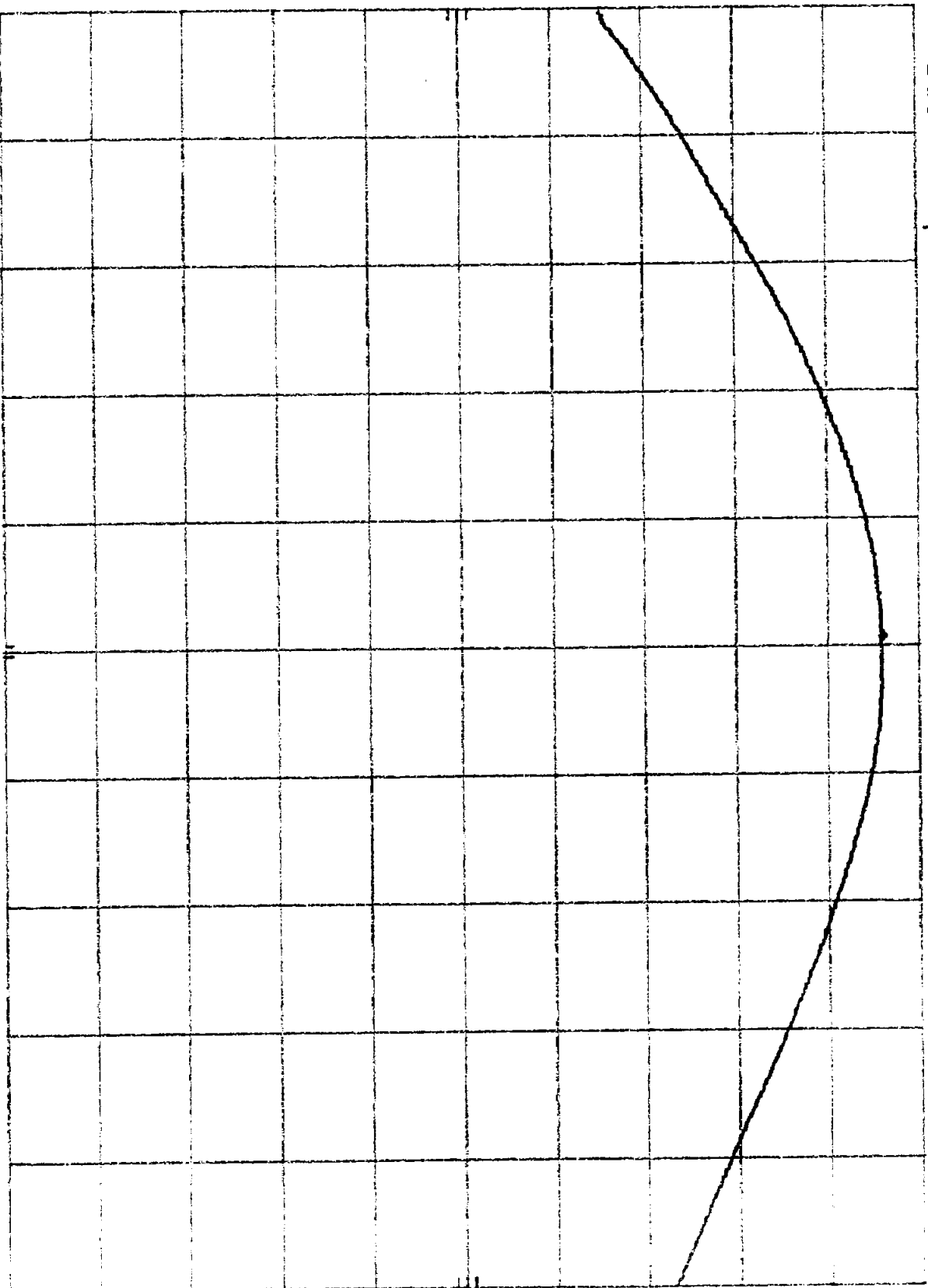
ATTEN 0 dB

Plot B1C

MKR 2.474 82 GHz

82.60 dBμV

10 dB/



CENTER 2.474 9 GHz

RES BW 3 MHz

VBW 3 MHz

SPAN 10.0 MHz

SWP 20.0 msec

Plot H1a

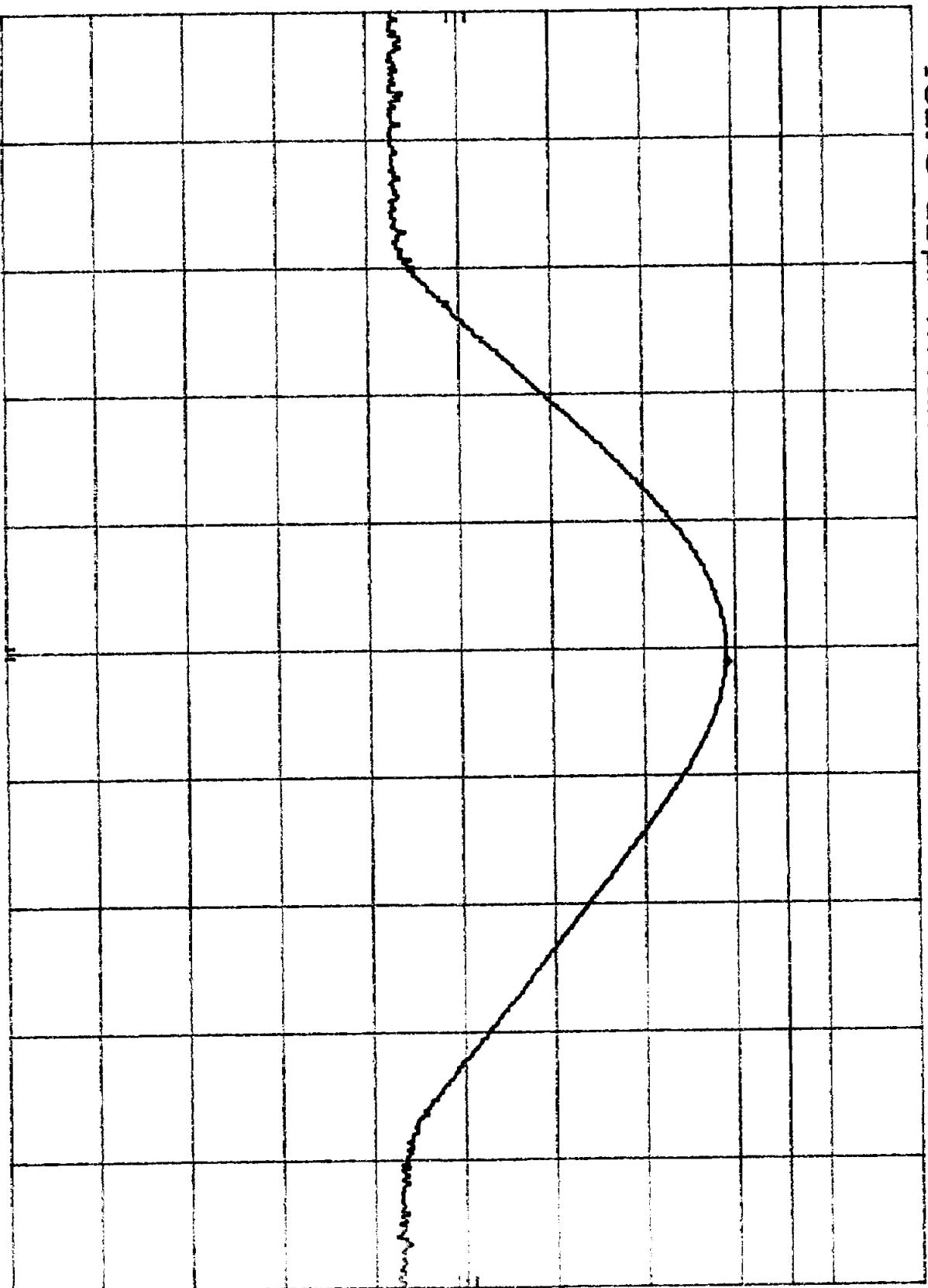
HP

REF 102.0 dBμV ATTEN 10 dB

MKR 2.404 84 GHz  
81.10 dBμV

10 dB/

DL  
87.6  
dBμV



CENTER 2.404 6 GHz

RES BW 3 MHz

VBW 3 MHz

SPAN 20.0 MHz  
SWP 20.0 msec

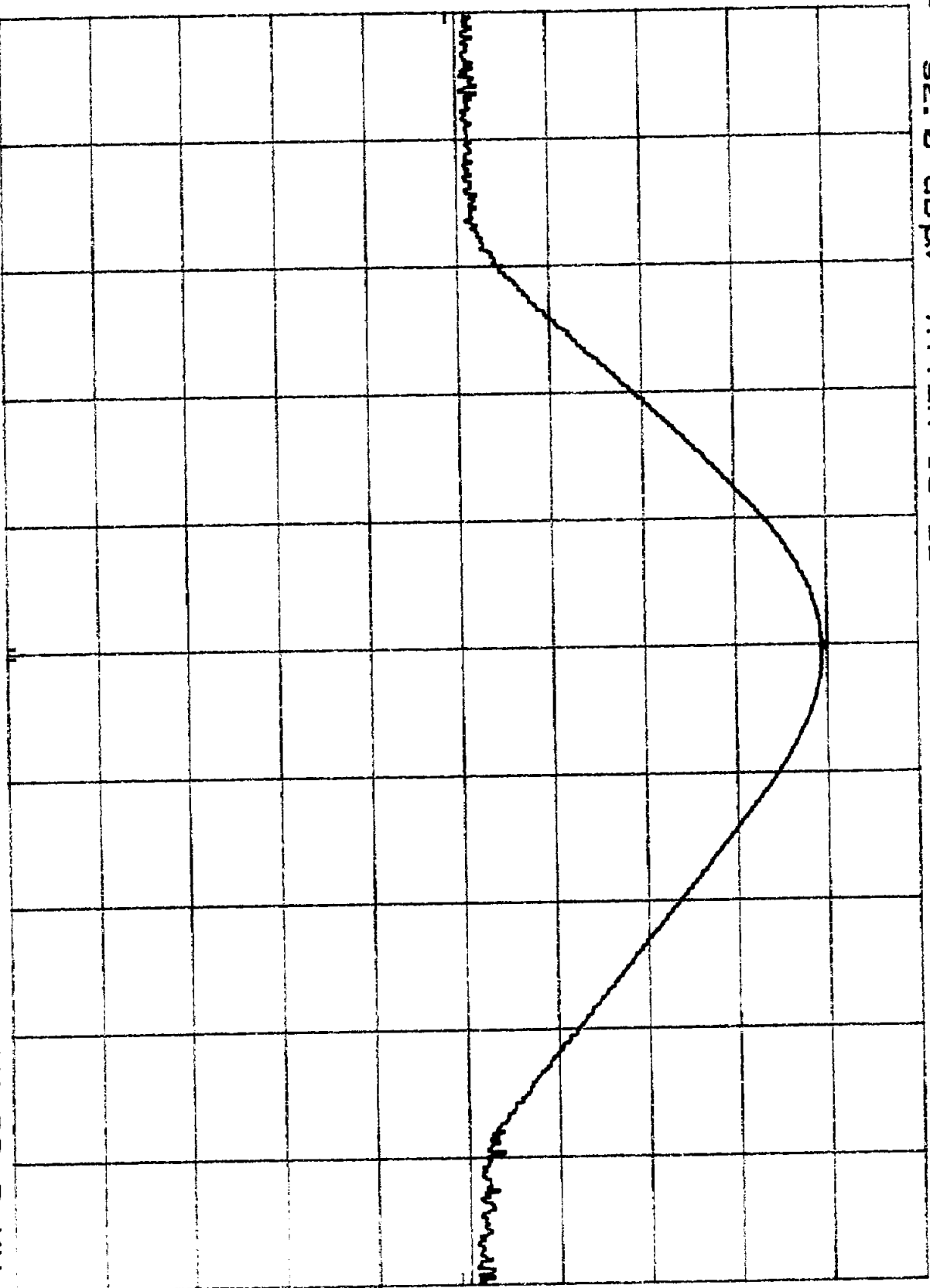
h<sub>10</sub>

REF 92.0 dBμV ATTEN 10 dB

Plot H1b

MKR 2.440 77 GHz  
81.50 dBμV

10 dB/



CENTER 2.440 77 GHz  
RES BW 3 MHz

VBW 3 MHz

SPAN 20.0 MHz  
SWP 20.0 msec

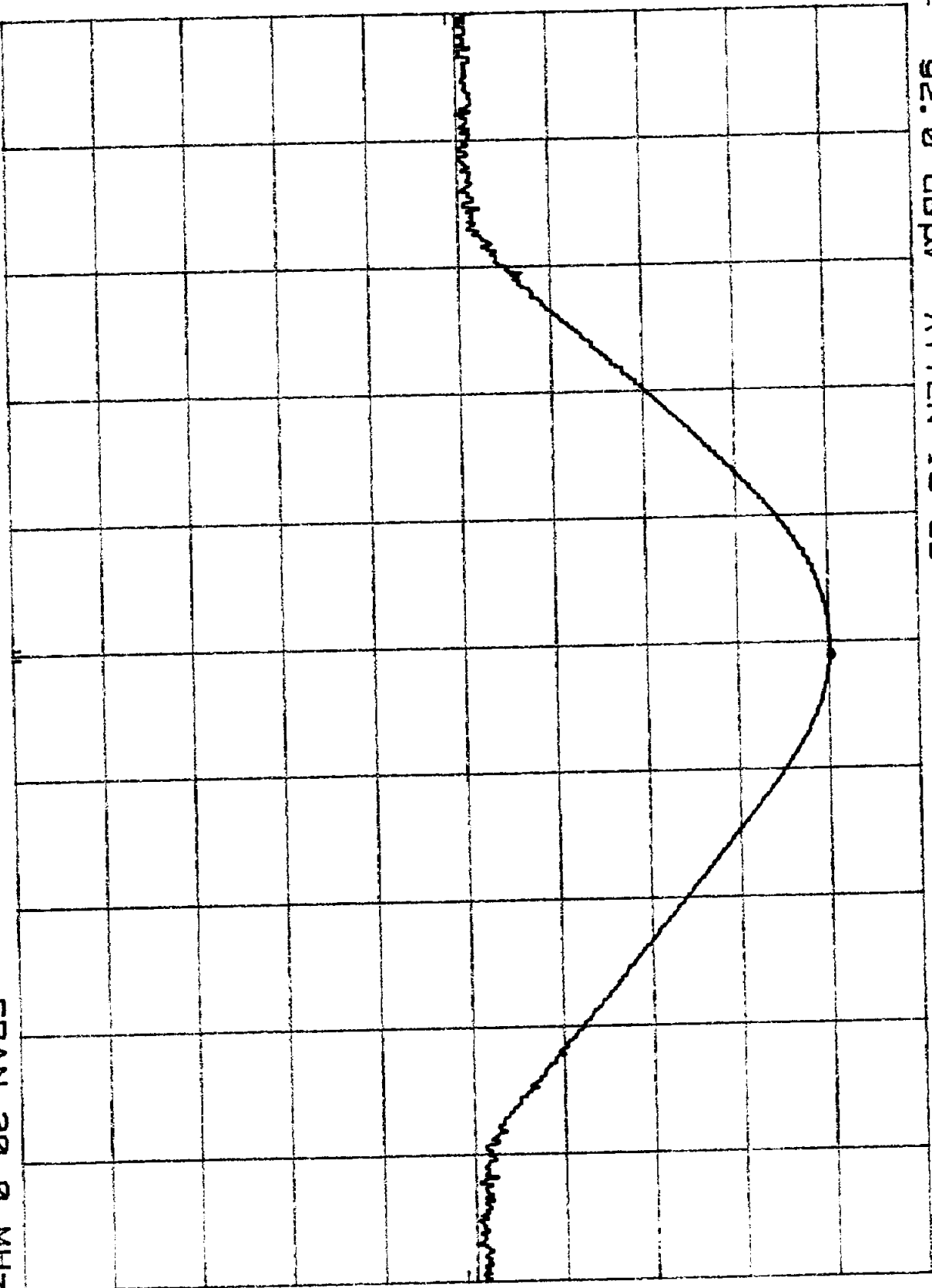
HP

10 dB/

REF 92.0 dBμV ATTEN 10 dB

Plot H1C

MKR 2.475 20 GHz  
82.30 dBμV



CENTER 2.475 0 GHz  
RES BW 3 MHz

VBW 3 MHz

SPAN 20.0 MHz  
SWP 20.0 msec

## 4.2 Minimum 6 dB RF Bandwidth, FCC Rule 15.247(a)(2):

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RES BW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK output reading was taken, a DISPLAY line was drawn 6 dB lower than PEAK level. The 6 dB bandwidth was determined from where the channel output spectrum intersected the display line.

| Base            |                           |             |
|-----------------|---------------------------|-------------|
| Frequency (MHz) | Min. 6 dB Bandwidth (kHz) | Limit (kHz) |
| 2400.8          | 1442                      | 500         |

Refer to the following plots for 6 dB bandwidth sharp:

Plot B2a: Low Channel 6 dB RF Bandwidth  
Plot B2b: Middle Channel 6 dB RF Bandwidth  
Plot B2c: High Channel 6 dB RF Bandwidth

| Handset         |                           |             |
|-----------------|---------------------------|-------------|
| Frequency (MHz) | Min. 6 dB Bandwidth (kHz) | Limit (kHz) |
| 2475            | 1434                      | 500         |

Refer to the following plots for 6 dB bandwidth sharp:

Plot H2a: Low Channel 6 dB RF Bandwidth  
Plot H2b: Middle Channel 6 dB RF Bandwidth  
Plot H2c: High Channel 6 dB RF Bandwidth

hp

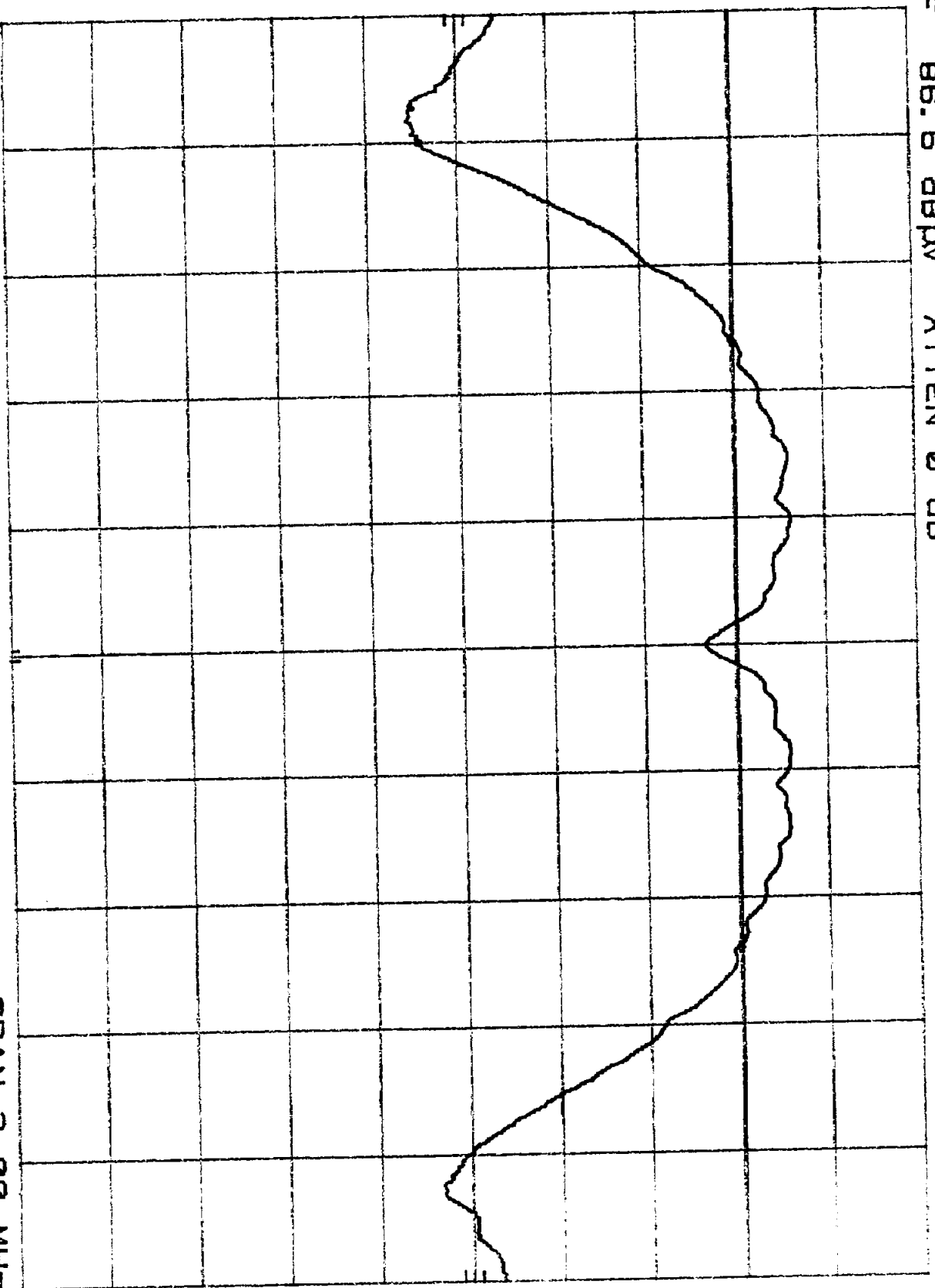
10 dB/

REF 86.6 dBμV ATTN 0 dB

Plot B 2 a

MKR Δ 1.437 MHz  
0.00 dB

DL  
66.9  
dBμV



CENTER 2.404 80 GHz  
RES BW 100 KHz

VBW 100 KHz

SPAN 3.00 MHz  
SWP 20.0 msec

HP

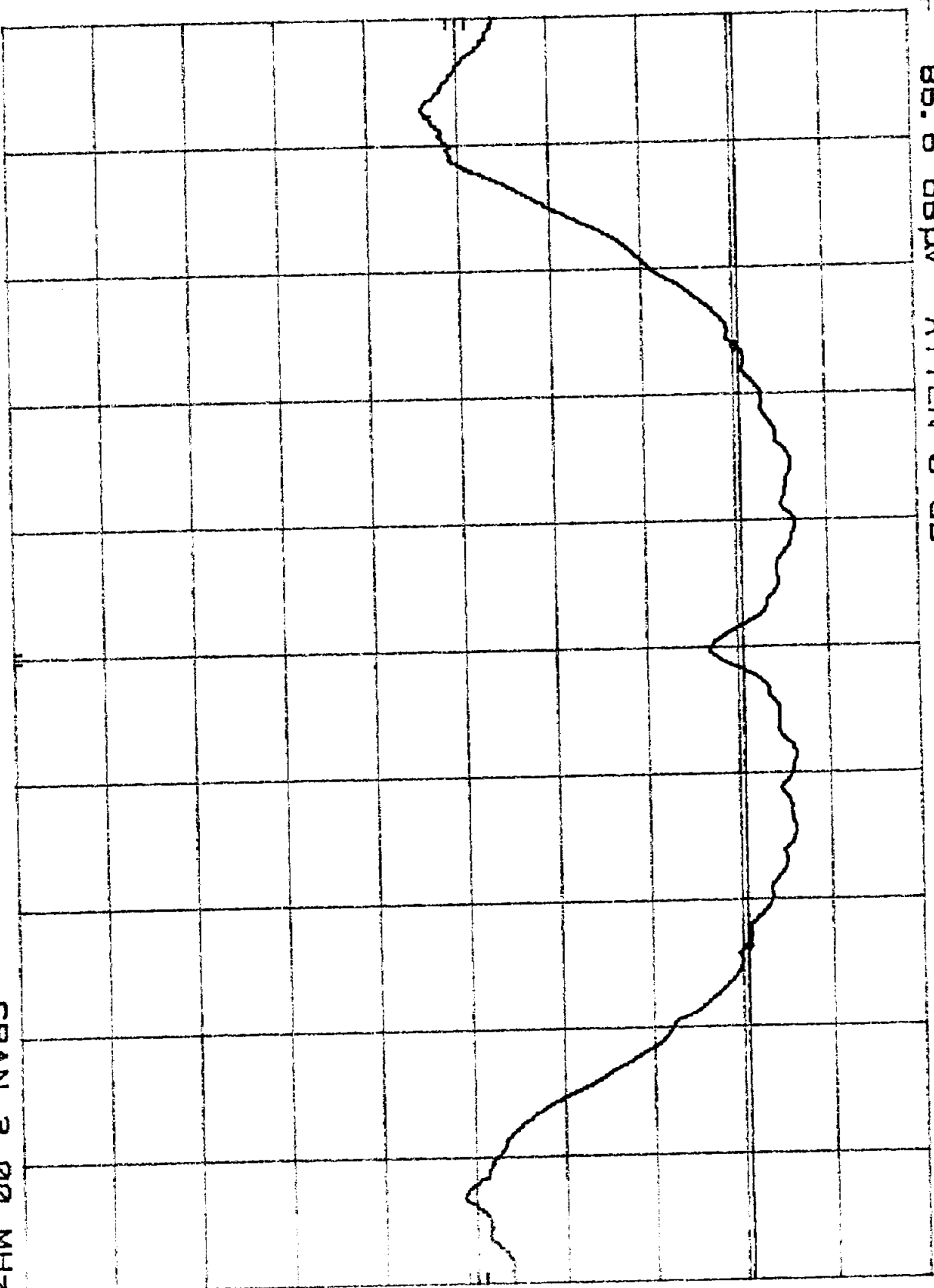
10 dB/

REF 86.6 dBμV ATTEN 0 dB

Plot B2b

MKR Δ 1.422 MHz  
0.50 dB

DL  
67.2  
dBμV



CENTER 2.440 80 GHz  
RES BW 100 kHz  
VBW 100 kHz  
SPAN 3.00 MHz  
SWP 20.0 msec

HP

REF 86.6 dBμV ATTEN 0 dB

MKR Δ 1.434 MHz  
-0.20 dB

10 dB/

DL  
67.3  
dBμV

Plot B2C



CENTER 2.475 01 GHz

RES BW 100 kHz

VBW 100 kHz

SPAN 3.00 MHz  
SWP 20.0 mcs

HP

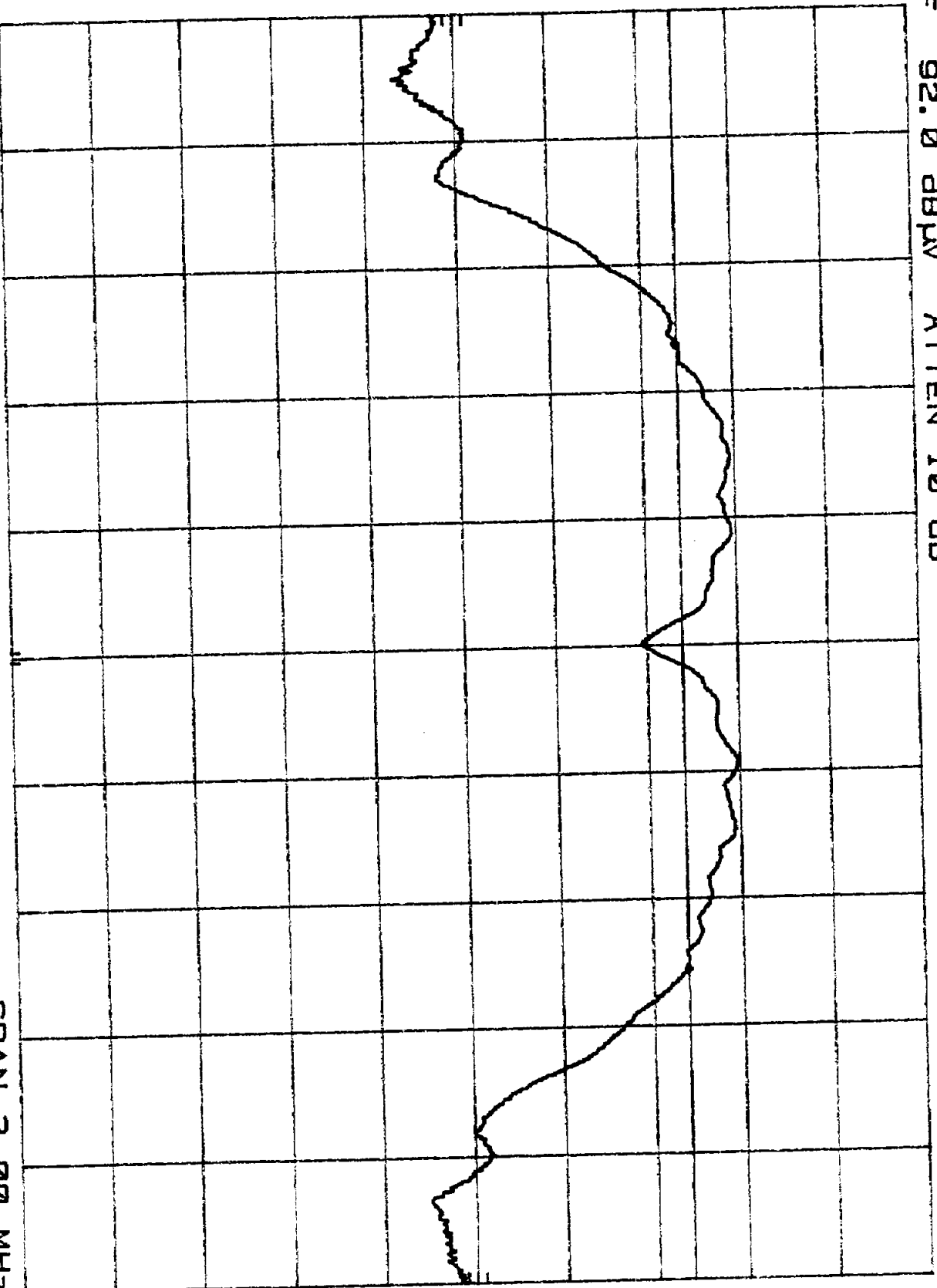
REF 92.0 dBμV ATTEN 10 dB

Plot H2a

MKR Δ 1.479 MHz  
0.10 dB

10 dB/

DL  
65.9  
dBμV



CENTER 2.404 78 GHz

RES BW 100 kHz

VBW 100 kHz

SPAN 3.00 MHz

SWP 20.0 msec

HP

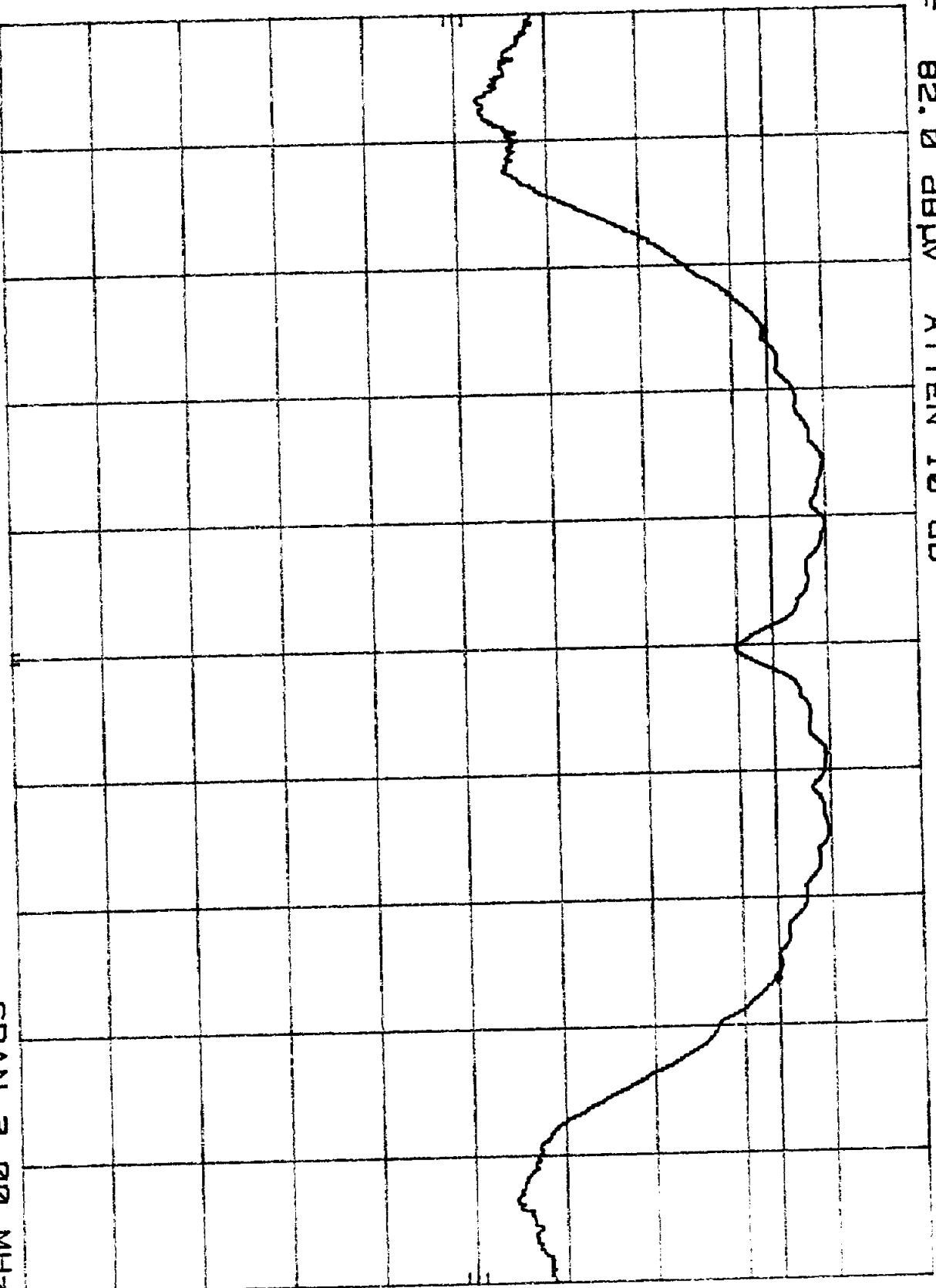
REF 82.0 dBμV ATTEN 10 dB

Plot H2b

MKR Δ 1.530 MHz  
0.10 dB

10 dB/

DL  
65.9  
dBμV



CENTER 2.440 77 GHz  
RES BW 100 KHz

VBW 100 KHz

SPAN 3.00 MHz  
SWP 20.0 msec

HP

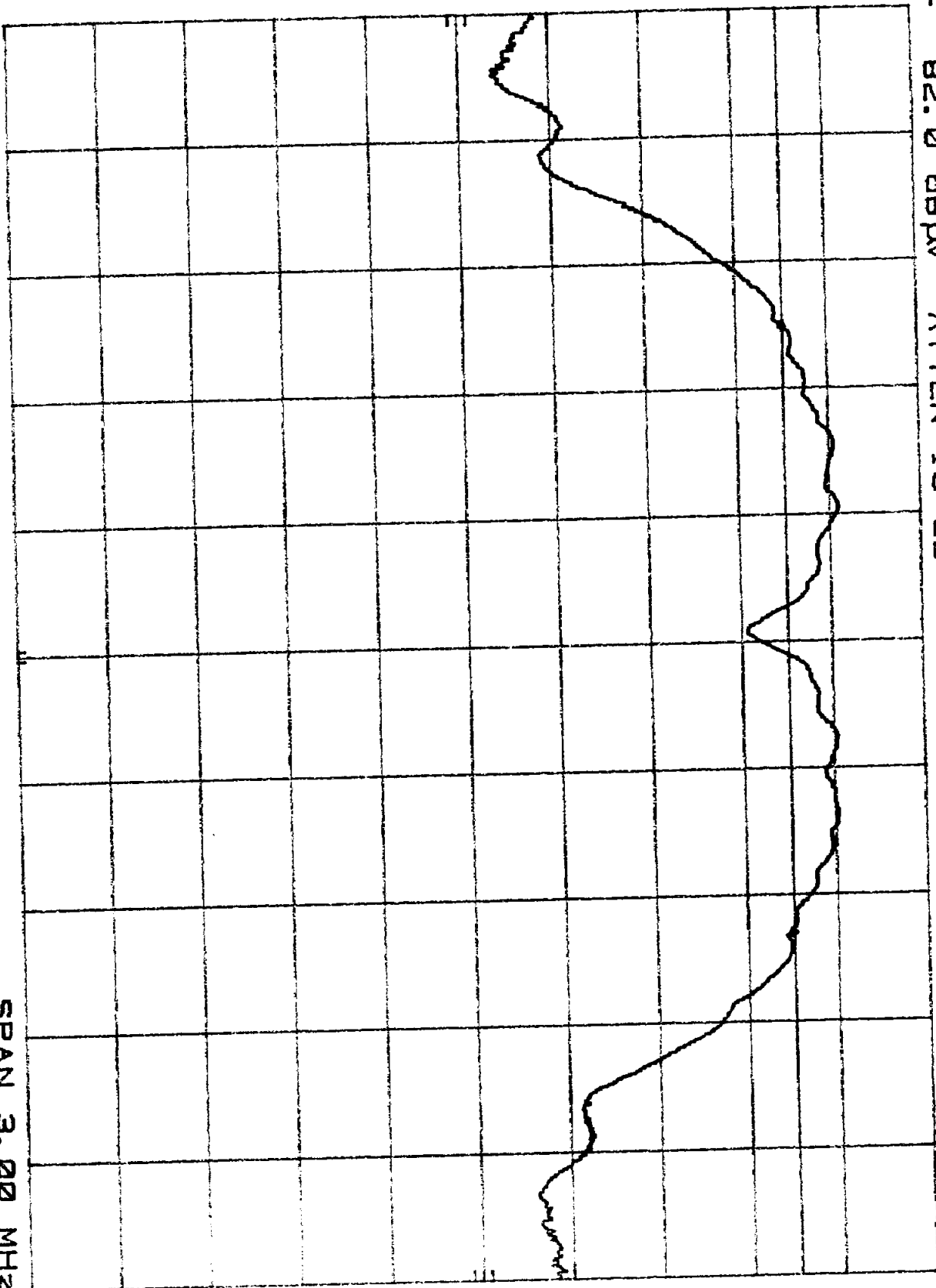
10 dB/

REF 82.0 dBμV ATTEN 10 dB

Plot H2C

MKR Δ 1.434 MHz  
-0.10 dB

DL  
67.1  
dBμV



CENTER 2.475 00 GHz  
RES BW 100 kHz

VBW 100 kHz

SPAN 3.00 MHz  
SWP 20.0 msec

## 4.3 Maximum Power Density Reading, FCC Rule 15.247(d):

The spectrum analyzer RES BW was set to 3 kHz. The START and STOP frequencies were set to the band edges of the maximum output passband. If there is no clear maximum amplitude in any given portion of the band, it may be necessary to make measurements at a number of bands defined by several START and STOP frequency pairs. The specification calls for a 1 second interval at each 3 kHz bandwidth; total SWEEP TIME is calculated as follows:

$$\text{SWEEP TIME (SEC)} = (\text{Fstop, kHz} - \text{Fstart, kHz}) / 3 \text{ kHz}$$

Radiated method was used; power density was calculated from field strength.

$$P = (ED)^2 / 30$$
$$G = 1$$

| Base            |                     |             |
|-----------------|---------------------|-------------|
| Frequency (MHz) | Power Density (dBm) | Limit (dBm) |
| 2475.30         | 4.2                 | 8.0         |

| Handset         |                     |             |
|-----------------|---------------------|-------------|
| Frequency (MHz) | Power Density (dBm) | Limit (dBm) |
| 2474.68         | 4.2                 | 8.0         |

Frequency Span = 600 kHz

Sweep Time = 600 Frequency Span / 3 kHz  
= 200 seconds

Refer to Appendix C for the following plots:

Plot B3a.1 - B3a.2 Low Channel Power Density  
Plot B3b.1 - B3b.2 Middle Channel Power Density  
Plot B3c.1 - B3c.2: High Channel Power Density  
Plot H3a.1 - H3a.2 Low Channel Power Density  
Plot H3b.1 - H3b.2 Middle Channel Power Density  
Plot H3c.1 - H3c.2: High Channel Power Density  
Radiated Emission (Output Power Density) Handset and Base

## Radiated Emissions Test Data

|            |                                        |               |                   |           |            |
|------------|----------------------------------------|---------------|-------------------|-----------|------------|
| Company:   | Giant Electronics Limited              | Model #:      | G2488             | Req.      | FCC 15.247 |
| EUT:       | Cordless Phone Base                    | S/N or FCC #: |                   | Test Dist | 3 meters   |
| Project #: | J9903060                               | Test Date:    | December 28, 1999 | TP        | Watt       |
| Test Mode: | Tx Power Density for Low, Mid, Hing Ch | Engineer:     | Xi Ming Y.        | Min. Attn | dBc        |

|         | Antenna Used |           |        | Pre-Amp Used |           |         | Cable Used |      |         | Transducer Used |
|---------|--------------|-----------|--------|--------------|-----------|---------|------------|------|---------|-----------------|
| Number: | 2            | 14        | 21     | 0            | 8         | 13      | 0          | 0    | 12      | 0               |
| Model:  | EMCO 3143    | EMCO 3115 | 3180-9 | None         | CDL_P1000 | ACO/400 | None       | None | Grr_M+L | None            |

| Frequency MHz | Reading dB(μV) | Detector P/A/G | Ant. # | Amp # | Ant. Pol. H/V | Ant. Factor dB(1/m) | Pre-Amp dB | Insert. Loss dB | Net dB(μV/m) | EIRP dBm | Limit dBm | Margin dB |
|---------------|----------------|----------------|--------|-------|---------------|---------------------|------------|-----------------|--------------|----------|-----------|-----------|
| 2404.50       | 66.5           | Ave.           | 14     | 0     | V             | 30.1                | 0.0        | 2.3             | 98.9         | 3.6      | 8.0       | -4.4      |
| 2440.50       | 66.9           | Peak           | 14     | 0     | V             | 30.1                | 0.0        | 2.3             | 99.3         | 4.0      | 8.0       | -4.0      |
| 2475.30       | 67.1           | Ave.           | 14     | 0     | V             | 30.1                | 0.0        | 2.3             | 99.5         | 4.2      | 8.0       | -3.8      |

- Notes:**
- a) O.C.F.: Other Correction Factor
  - b) Insert. Loss = Cable A + Cable B + Cable C + Transducer.
  - c) Net = Reading + Antenna Factor - Pre-Amp + Insert. Loss.
  - d) Attn. = Field Strength (Fundamental) - Field Strength (Harmonics).
  - e) Negative signs (-) in Margin column signify levels below the limits.

### Radiated Emissions Test Data

|            |                                        |               |                   |            |            |
|------------|----------------------------------------|---------------|-------------------|------------|------------|
| Company:   | Giant Electronics Limited              | Model #:      | G2488             | Req.       | FCC 15.247 |
| EUT:       | Cordless Phone Hand set                | S/N or FCC #: |                   | Test Dist. | 3 meters   |
| Project #: | J99030602                              | Test Date:    | December 28, 1999 | TP         | Watt       |
| Test Mode: | Tx Power Density for Low, Mid, Hing Ch | Engineer:     | Xi Ming Y.        | Min. Attn  | dBc        |

|         | Antenna Used |              |        | Pre-Amp Used |           |         | Cable Used |      |        | Transducer Used |
|---------|--------------|--------------|--------|--------------|-----------|---------|------------|------|--------|-----------------|
| Number: | 2            | 14           | 21     | 0            | 8         | 13      | 0          | 0    | 12     | 0               |
| Model:  | EMCO<br>3143 | EMCO<br>3115 | 3160-9 | None         | CDI_P1000 | ACO/400 | None       | None | Gm_M+L | None            |

[illegible]

**Notes:**

- O.C.F. Other Correction Factor
- Insert. Loss = Cable A + Cable B + Cable C + Transducer.
- Net = Reading + Antenna Factor - Pre-Amp + Insert. Loss.
- Attn. = Field Strength (Fundamental) - Field Strength (Harmonics)
- Negative signs (-) in Margin column signify levels below the limits

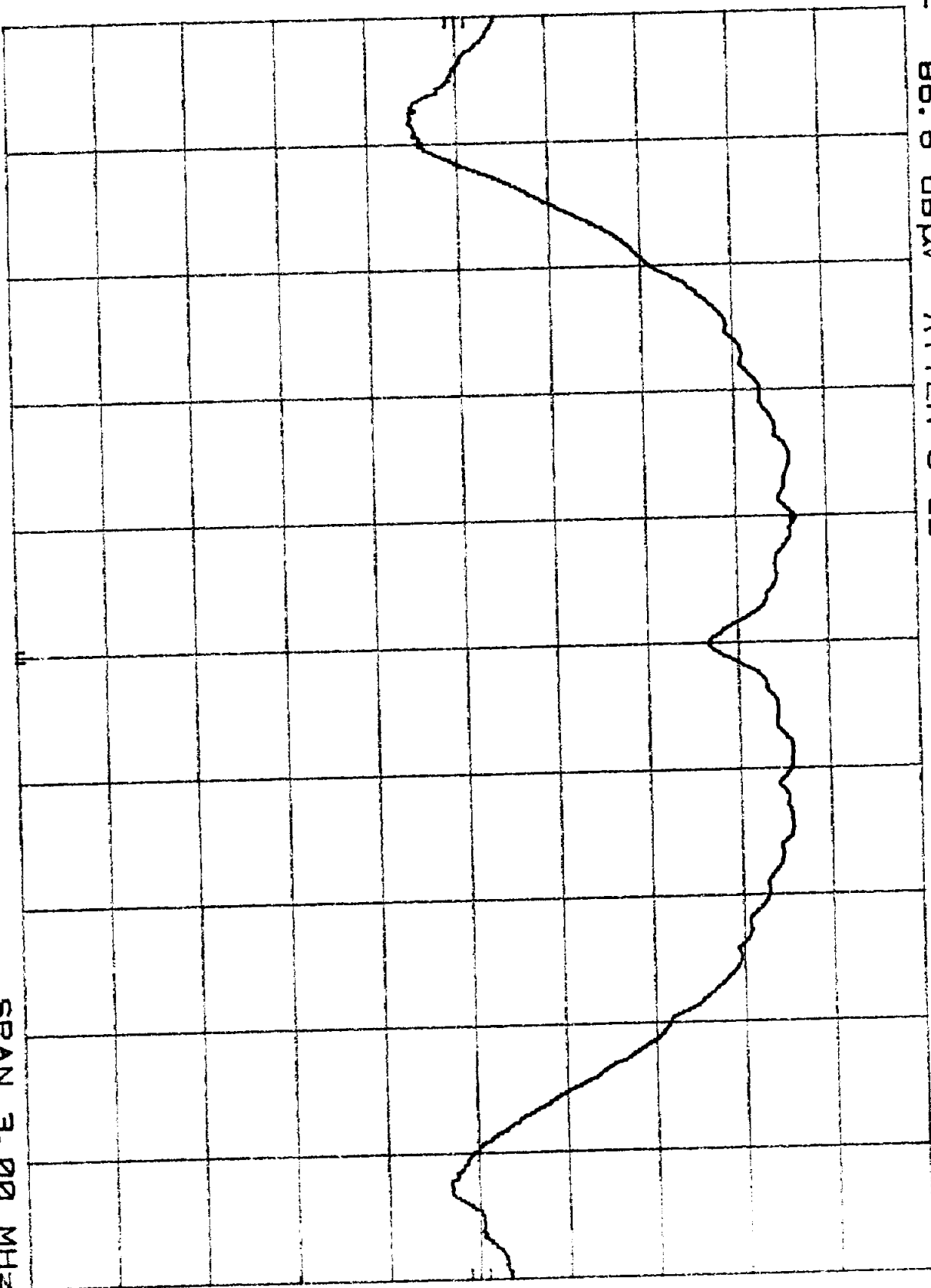
10 dB/

10 dB/

REF 86.6 dBμV ATTEN 0 dB

Plot B3a1

MKR 2.404 503 GHz  
72.90 dBμV



CENTER 2.404 80 GHz

RES BW 100 kHz

VBW 100 kHz

SPAN 3.00 MHz  
SWP 20.0 msec

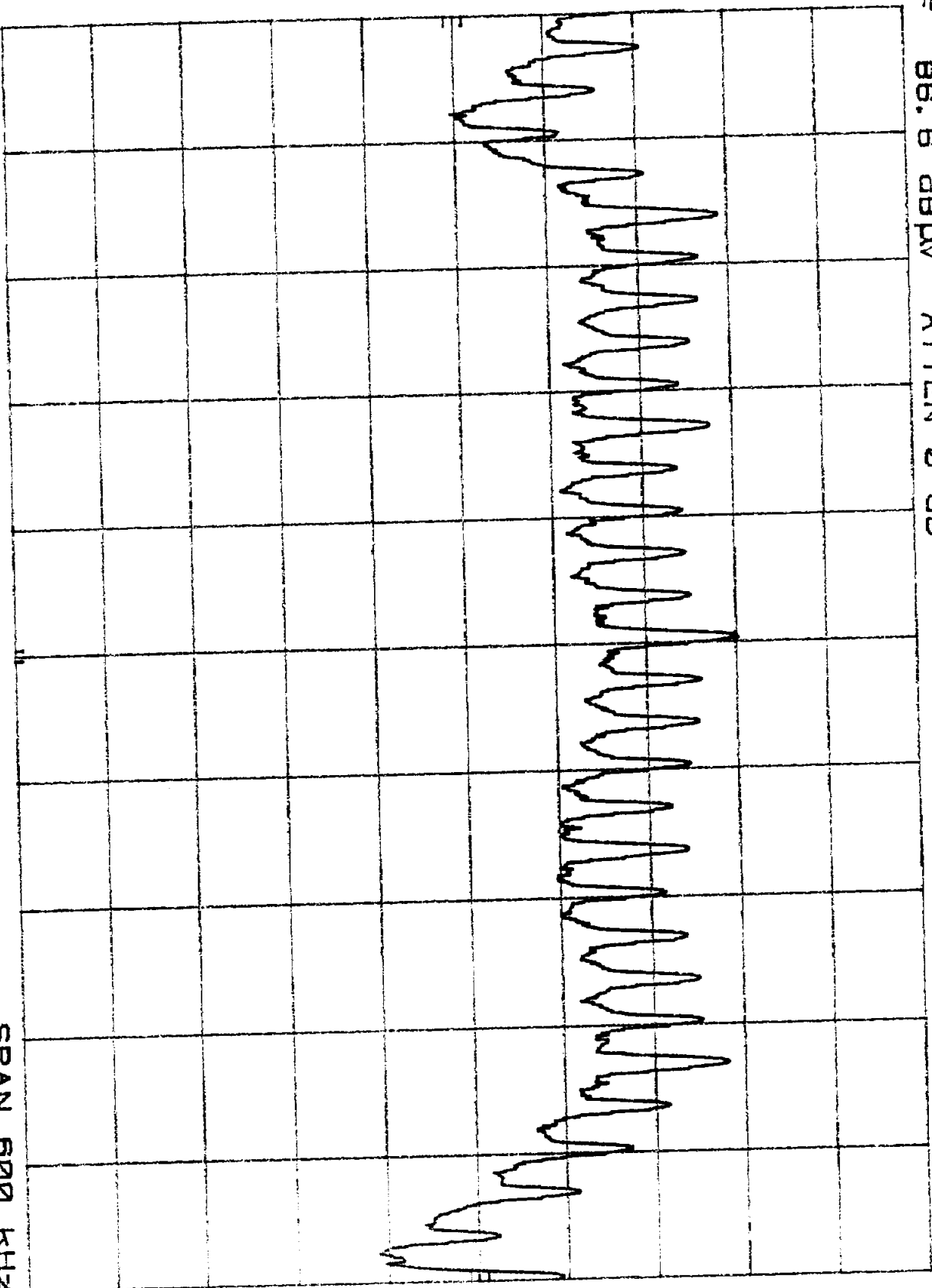
hp

10 dB/

REF 86.6 dBμV ATTEN 0 dB

Plot B3a2

MKR 2.404 500 6 GHz  
66.50 dBμV



CENTER 2.404 500 GHz  
RES BW 3 kHz

VBW 3 kHz

SPAN 600 kHz  
SWP 200 sec

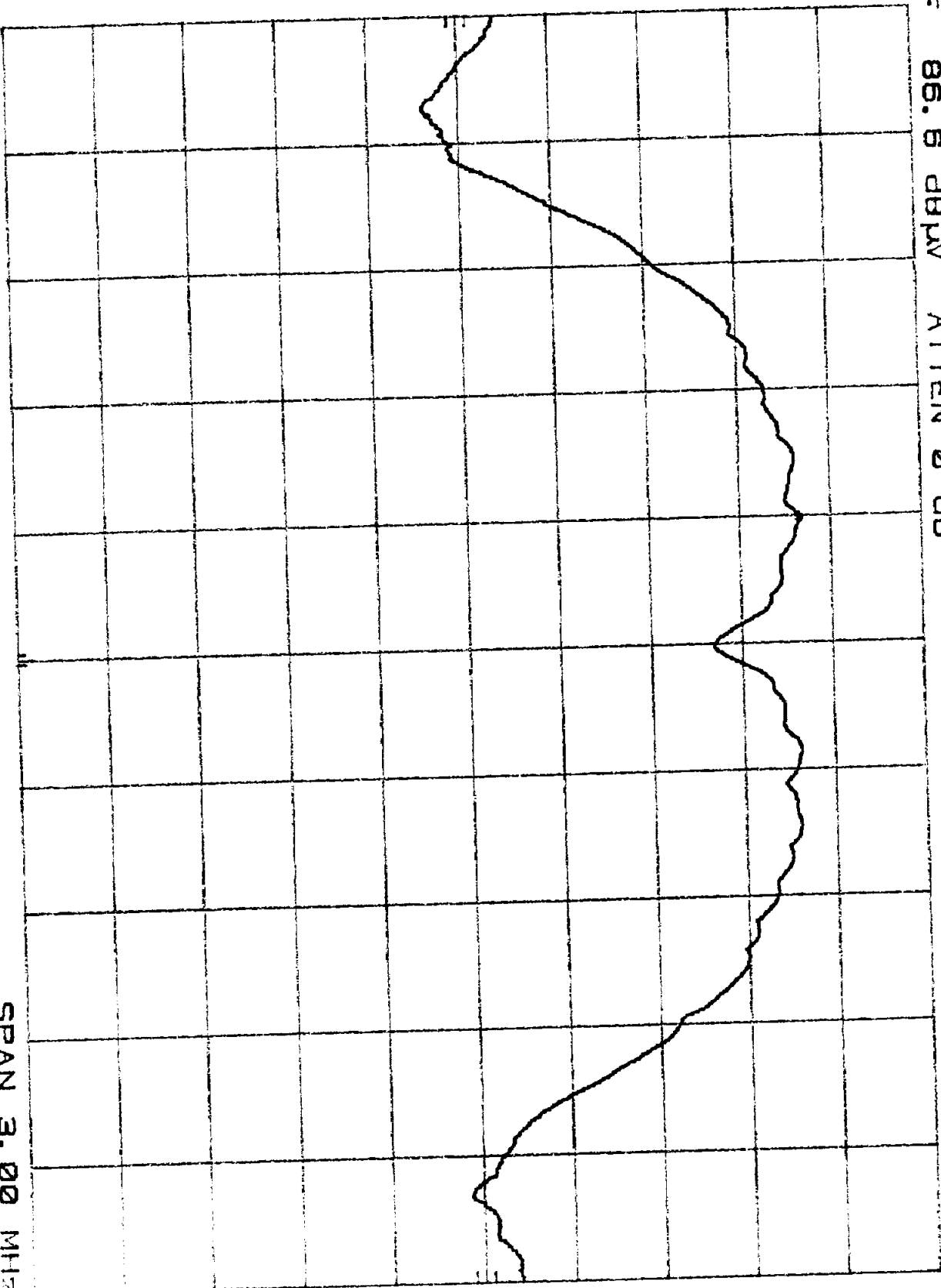
hp

10 dB/

REF 86.6 dBμV ATTEN 0 dB

Plot B361

MKR 2.440 503 GHz  
73.20 dBμV



CENTER 2.440 80 GHz  
RES BW 100 KHz

VBW 100 KHz

SPAN 3.00 MHz  
SWP 20.0 msec

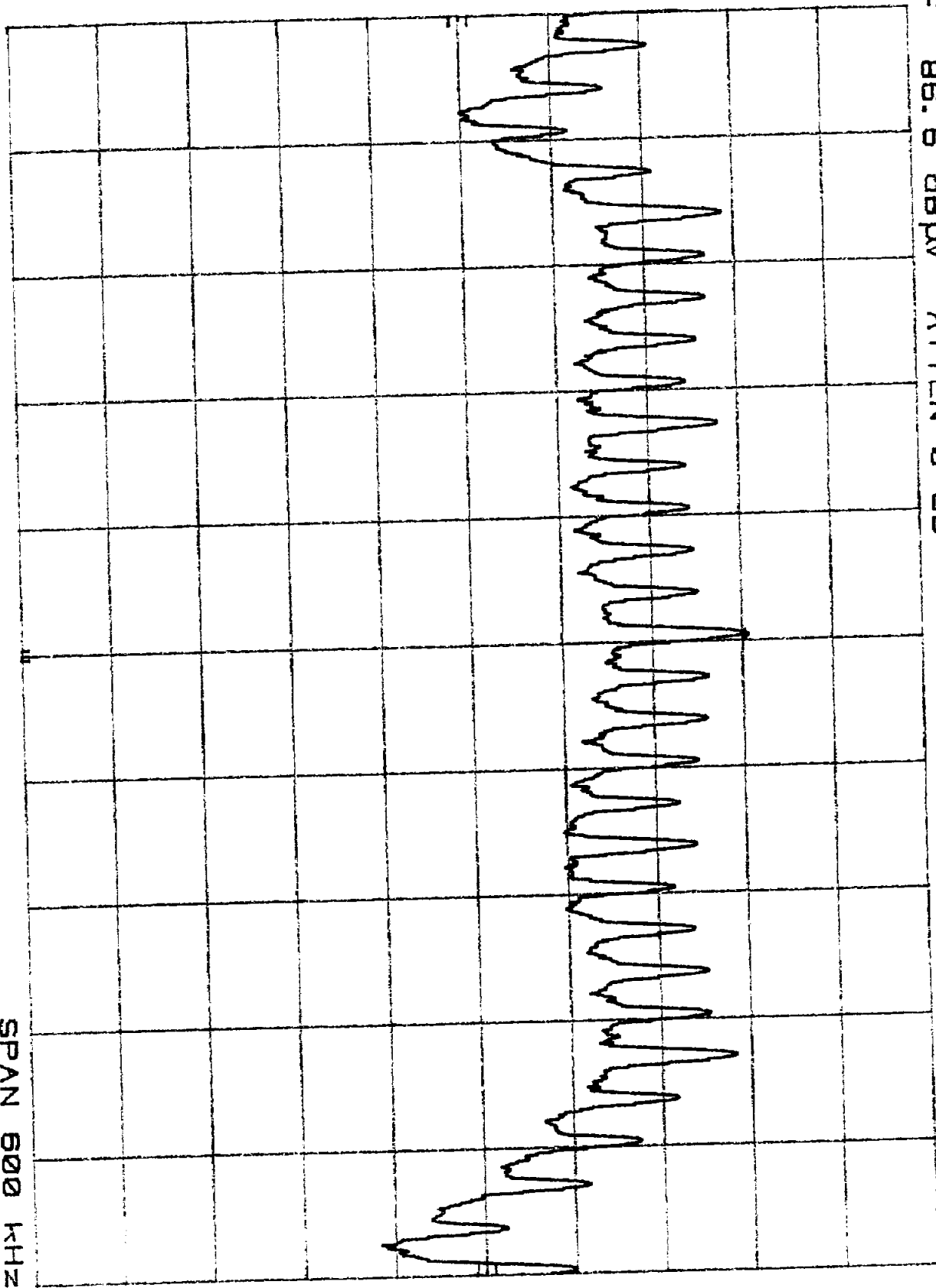
HP

10 dB/

REF 86.6 dBμV ATTEN 0 dB

Plot B3b2

MKR 2.440 500 0 GHz  
66.90 dBμV



CENTER 2.440 500 GHz  
RES BW 3 KHZ

VBW 3 KHZ

SPAN 600 KHZ  
SWP 200 sec

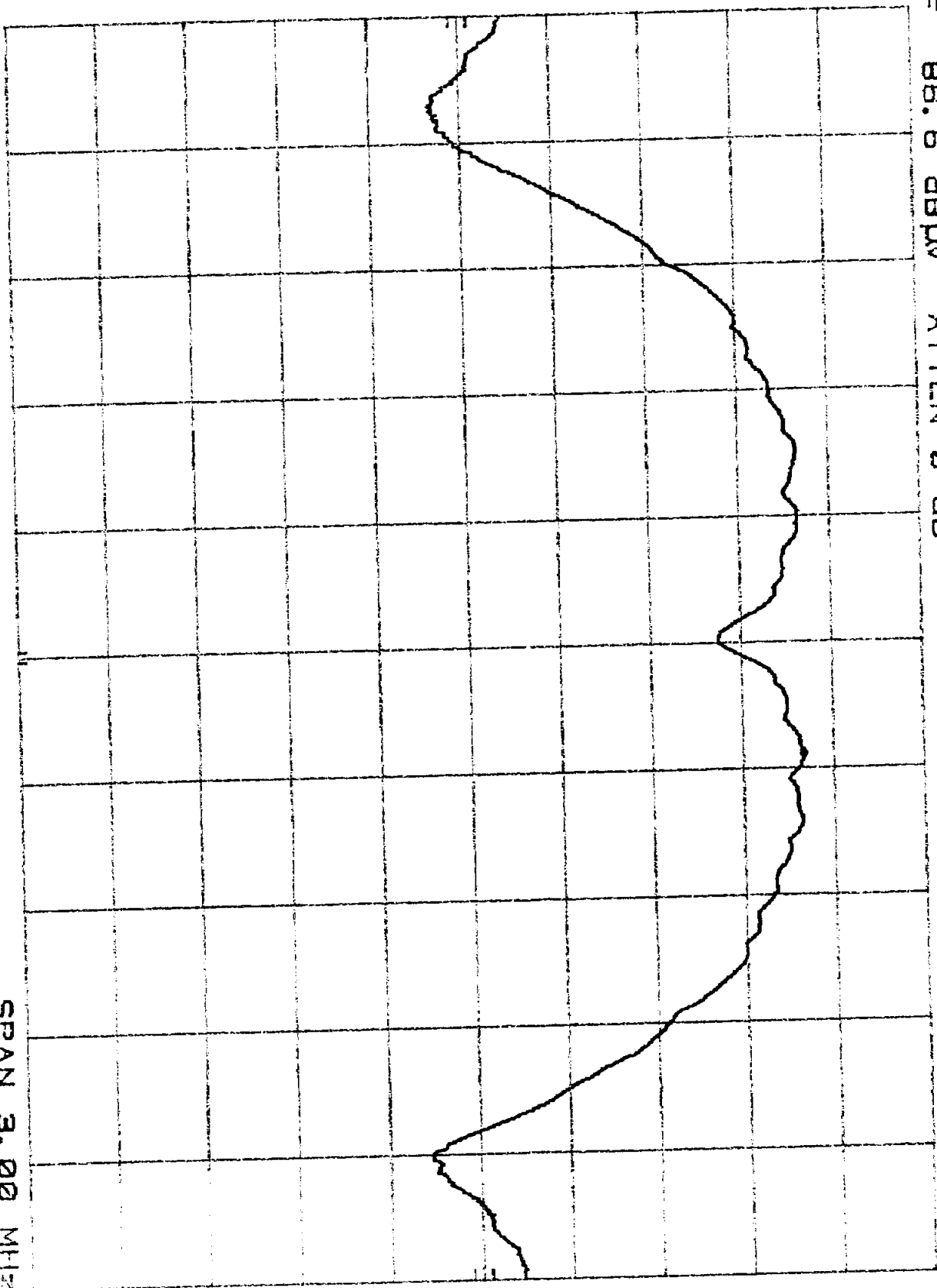
hp

10 dB/

REF 86.6 dBμV ATTEN 0 dB

Pld B3C1

MKR 2.475 275 GHz  
73.30 dBμV



CENTER 2.475 01 GHz  
RES BW 100 kHz

VBW 100 kHz

SPAN 3.00 MHz  
SWP 20.0 msec

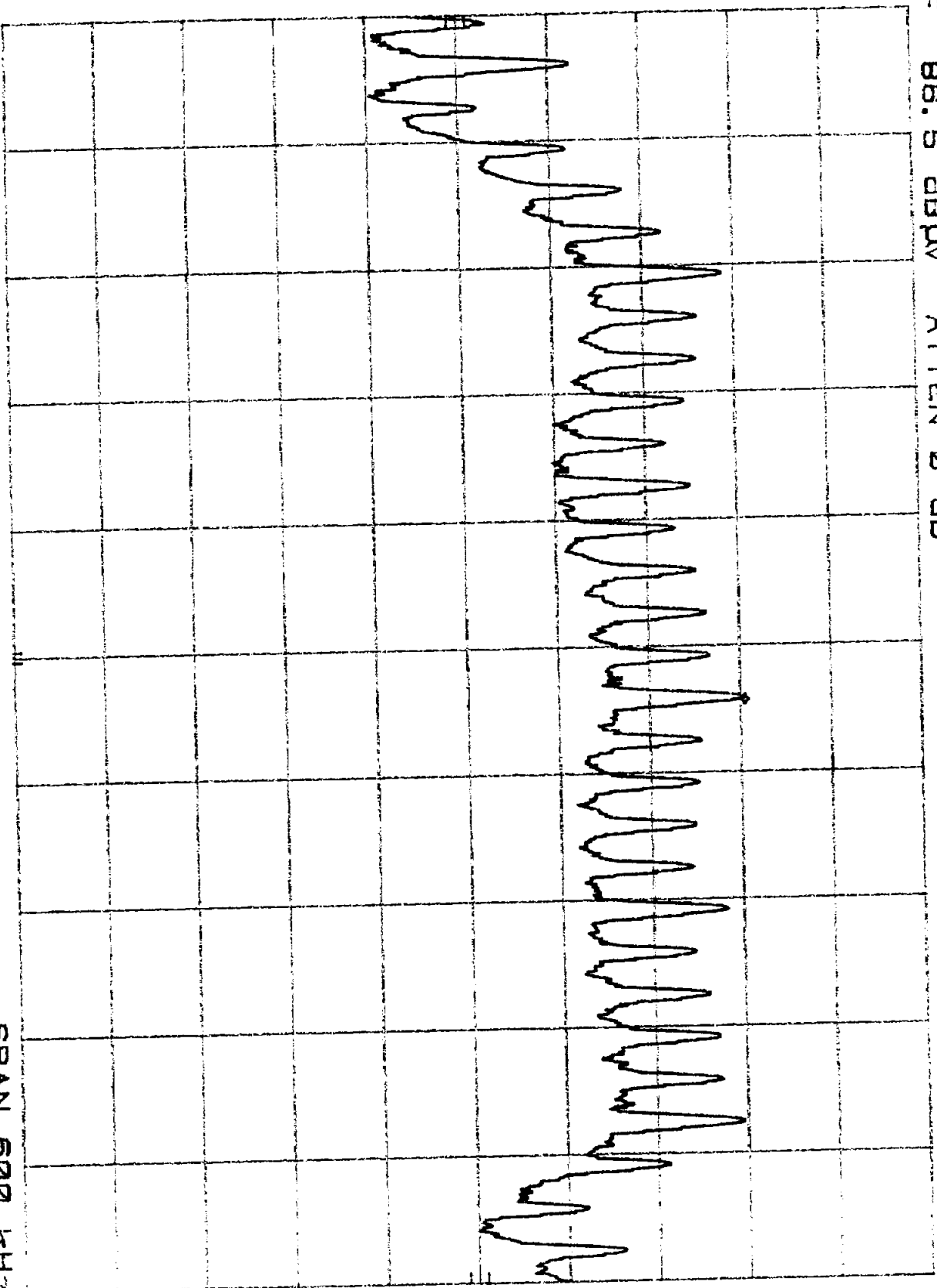
hp

10 dB/

REF 86.5 dBμV ATTEN 0 dB

Plot B3C2

MKR 2.475 300 2 GHz  
67.10 dBμV



CENTER 2.475 275 GHz  
RES BW 3 kHz

VBW 3 kHz

SPAN 600 kHz  
SWP 200 sec

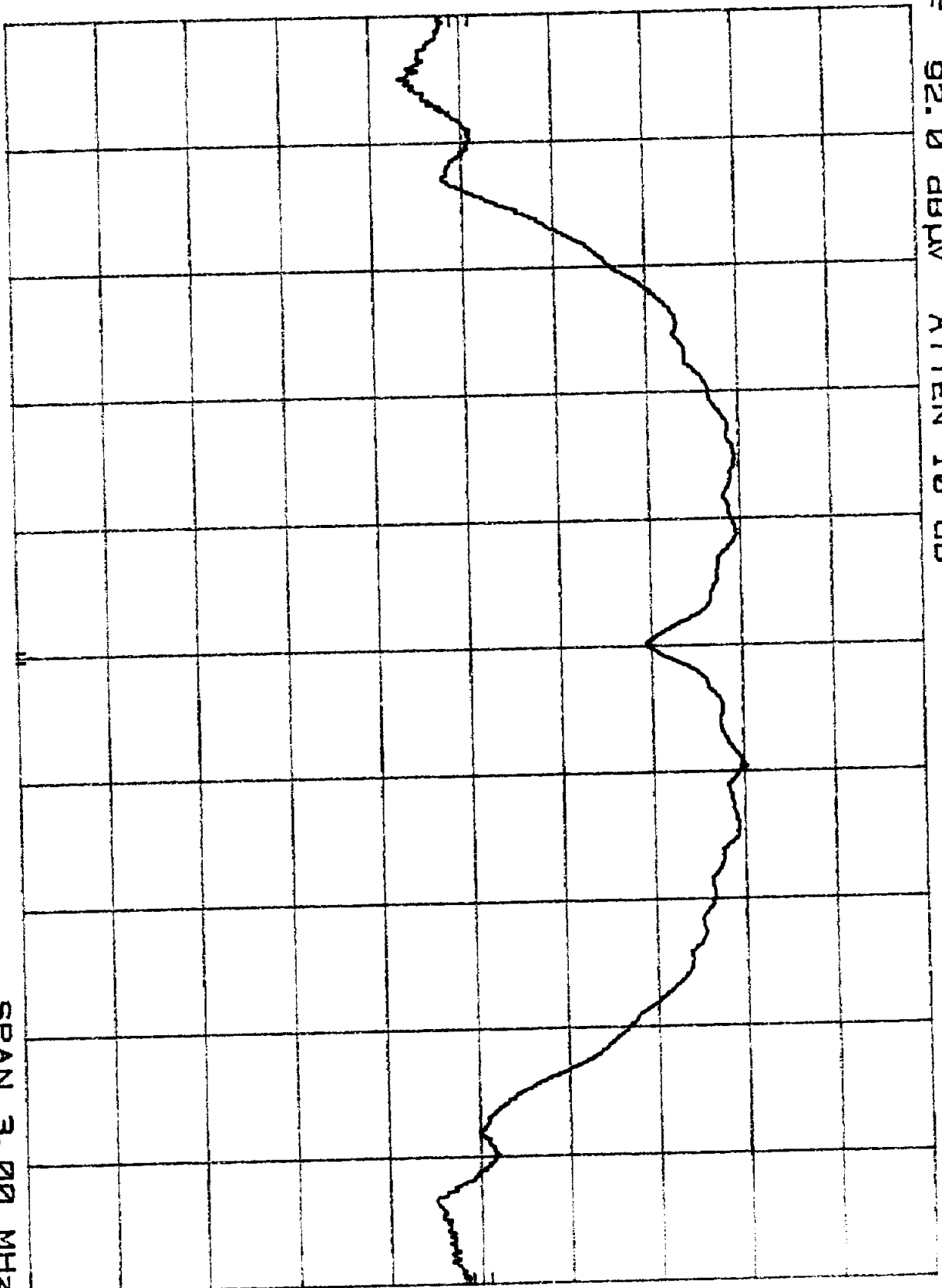
hp

10 dB/

REF 92.0 dBμV ATTEN 10 dB

Plot H3a1

MKR 2.405 066 GHz  
71.90 dBμV



CENTER 2.404 78 GHz  
RES BW 100 kHz

VBW 100 kHz

SPAN 3.00 MHz  
SWP 20.0 msec

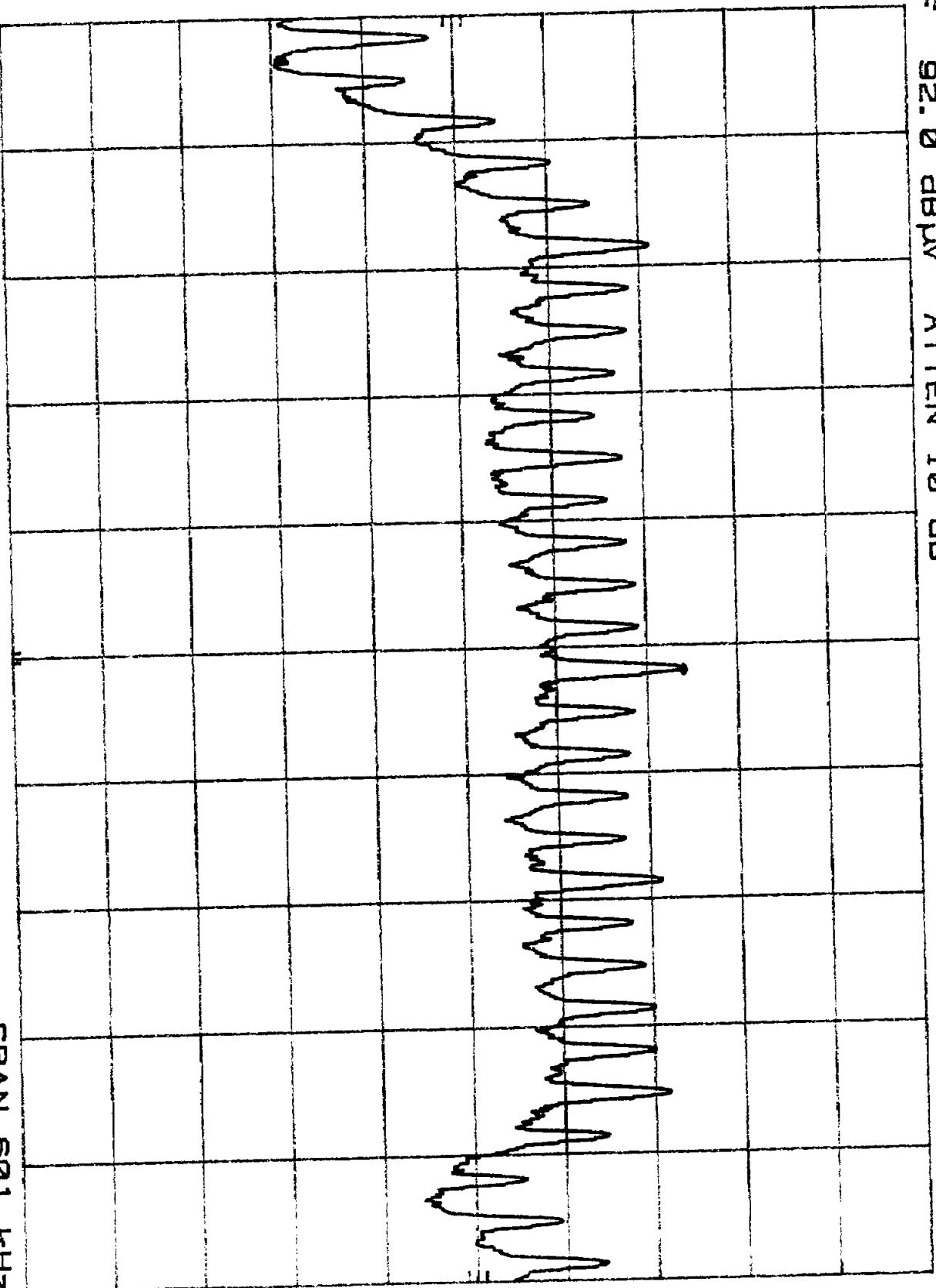
HP

10 dB/

REF 92.0 dBμV ATTEN 10 dB

Plot H3a2

MKR 2.405 077 8 GHz  
66.00 dBμV



CENTER 2.405 066 GHz  
RES BW 3 kHz

VBW 3 kHz

SPAN 601 kHz  
SWP 200 sec

hp

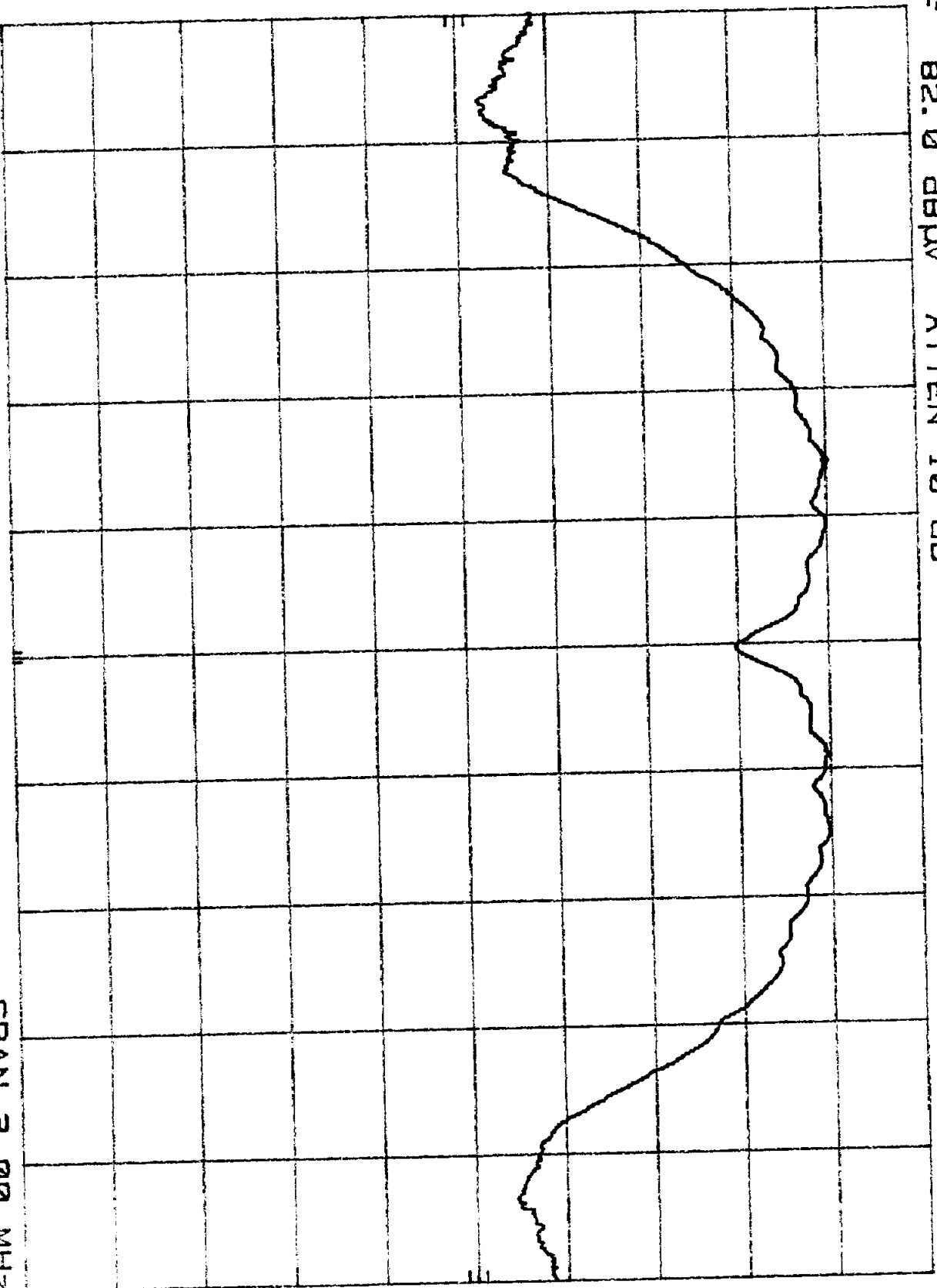
10 dB/

REF 82.0 dBμV

ATTEN 10 dB

Plot H361

MKR 2.440 338 GHz  
71.90 dBμV



CENTER 2.440 77 GHz

RES BW 100 kHz

VBW 100 kHz

SPAN 3.00 MHz  
SWP 20.0 msec

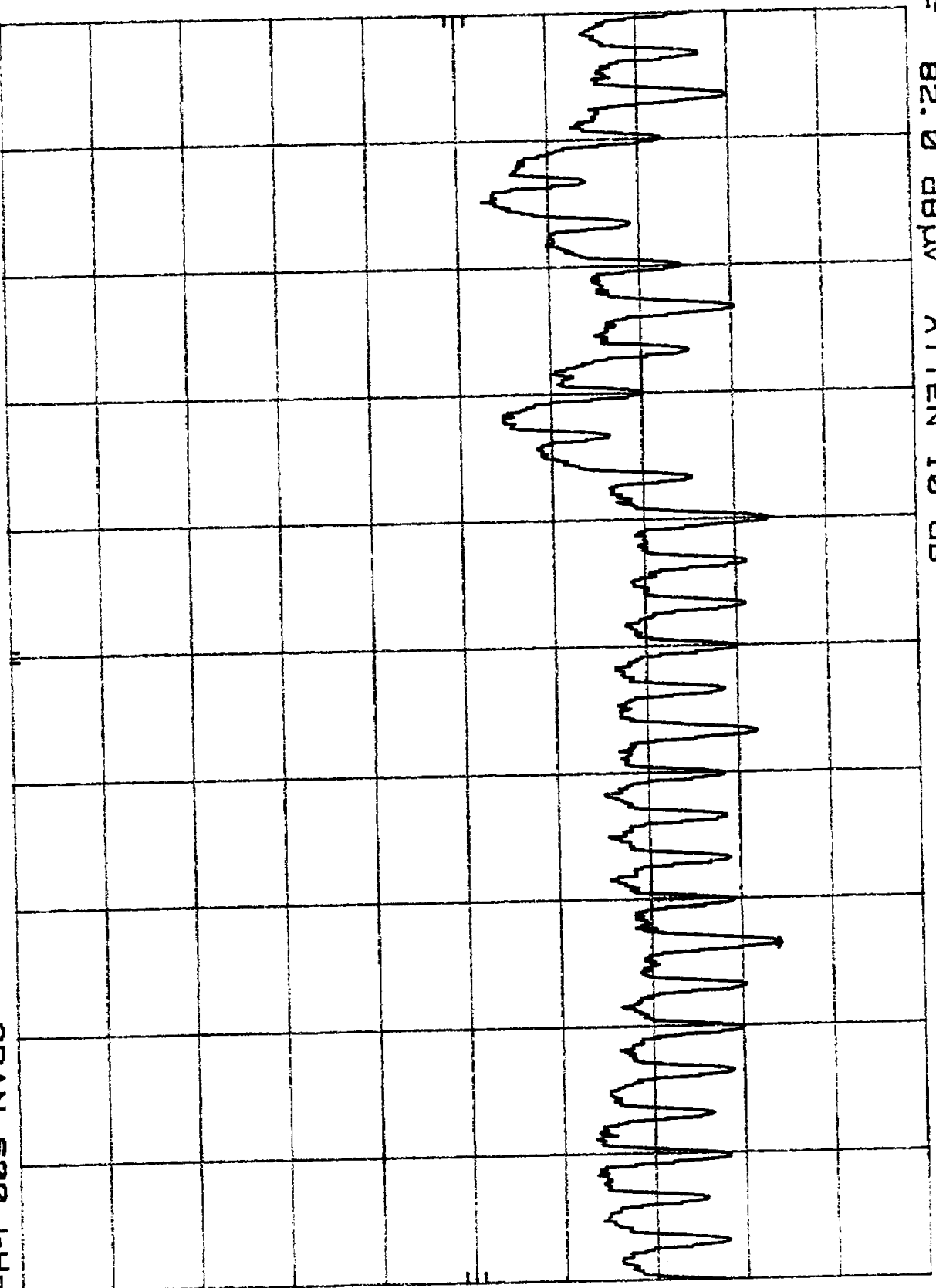
hp

10 dB/

REF 82.0 dBμV ATTEN 10 dB

Plot H3b2

MKR 2.440 479 0 GHz  
66.00 dBμV



CENTER 2.440 338 GHz  
RES BW 3 KHZ

VBW 3 KHZ

SPAN 500 KHZ  
SWP 200 sec

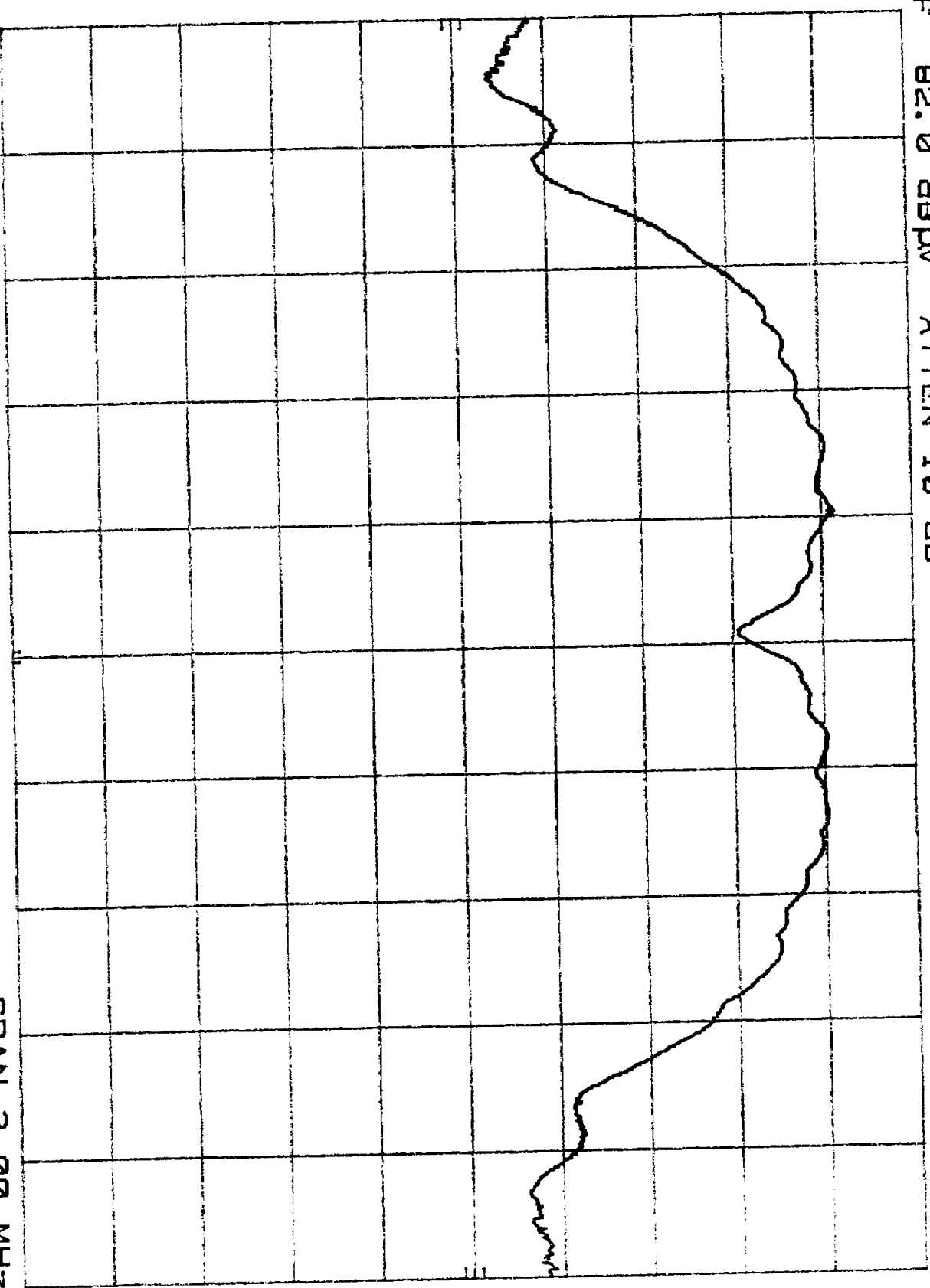
hp

10 dB/

REF 82.0 dBμV ATTEN 10 dB

Plot H3C1

MKR 2.474 685 GHz  
73.10 dBμV



CENTER 2.475 00 GHz

RES BW 100 KHz

VBW 100 KHz

SPAN 3.00 MHz  
SWP 20.0 msec

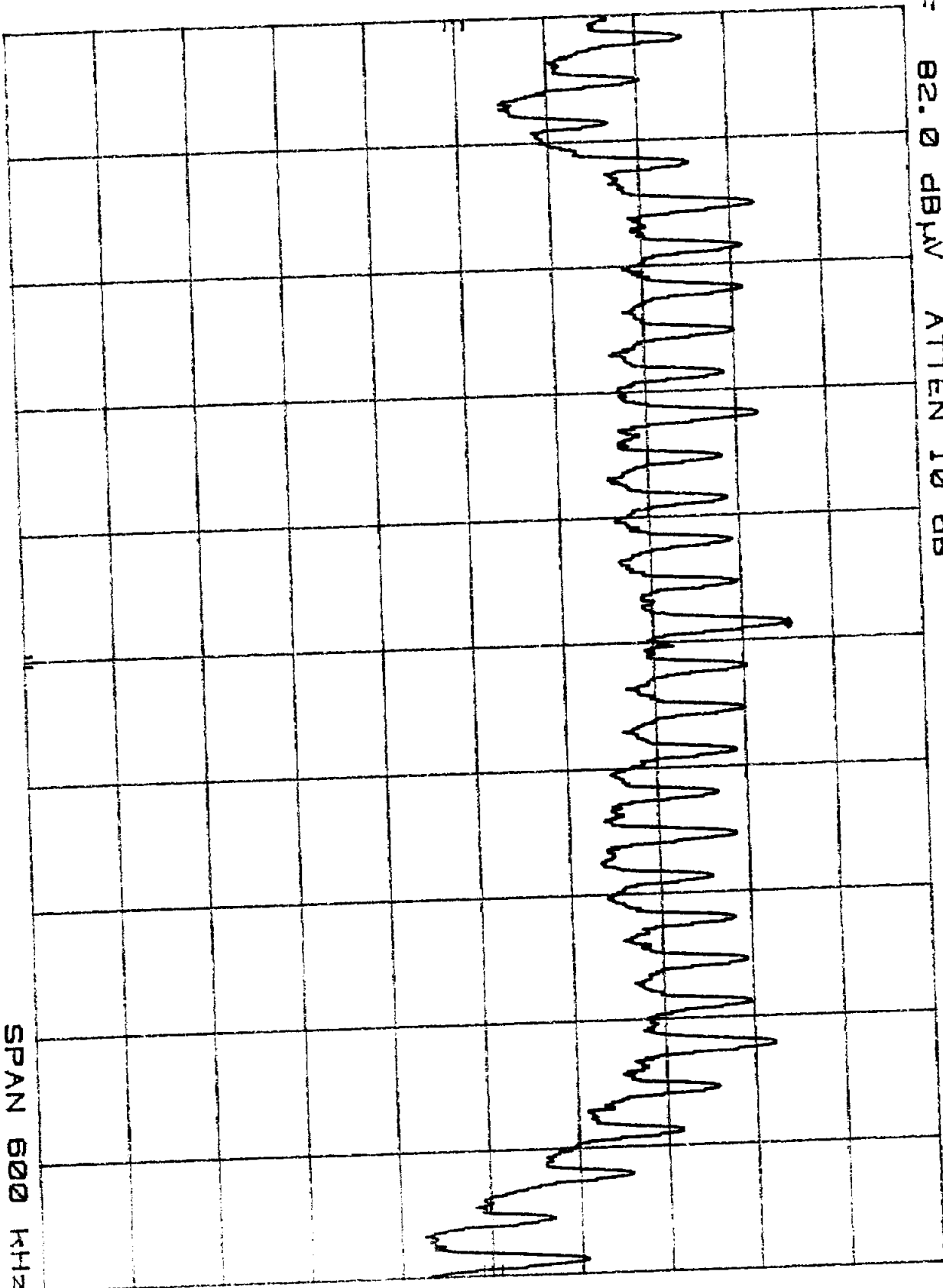
HP

10 dB/

REF 82.0 dBμV ATTEN 10 dB

Plot H3C2

MKR 2.474 677.2 GHz  
67.10 dBμV



CENTER 2.474 685 GHz  
RES BW 3 KHz

VBW 3 KHz

SPAN 600 KHz  
SWP 200 sec