

Exhibit 3

SECTION 2.983 (d)

Technical description of the equipment sufficiently complete to develop all the factors concerning compliance with the technical standards of the applicable rules part. The description shall include the following items:

SECTION 2.983 (d) (1)

Type or types of emission.

RESPONSE:

The AS5CMP-25 is capable of amplifying transmissions involving the following types of emissions:
1M23G9W

SECTION 2.983 (d) (2)

Frequency Range.

RESPONSE: 869.00 - 894.00 MHz

SECTION 2.983 (d) (3)

Range of operating power values or specific operating power levels, and description of any means provided for variation of operating power.

RESPONSE:

The AS5CMP-25 amplifier is capable of operating from 0.3 to 40.0 Watts CW at the amplifier output. The output power that is delivered to the J4 output connector of the cabinet in which the AS5CMP-25 is mounted is reduced from this maximum value by filter insertion loss, RF transmission losses and margin for long term reliability. The power is also under continuous software control. When installed in a cabinet with applicable filters the long term average rated power at the J4 output connector is 24 Watts +2 /-4 dB. The short term peak power, due to channel activity fluctuations, is 35.0 Watts.

SECTION 2.983 (d) (4)

Maximum power rating as defined in the applicable part of the rules.

RESPONSE: The maximum average power output of the AS5CMP-25 at the Cabinet Output J4 connector is 35.0 Watts.

Exhibit 3 *continued*

SECTION 2.983 (d) (5)

The dc voltages applied to and dc currents into the several elements of the final radio frequency amplifying device for normal operation over the power range.

RESPONSE: The CAM nominally uses the following voltages and maximum currents :

Overall CAM +26 VDC @ 25.0 A max.

Final Output Transistors: Four devices in parallel,
each device draws 2.25 amps at 24 V at rated output power

Exhibit 9**SECTION 2.983 (d) (11)**

A description of any circuits or devices employed for suppression of spurious radiation, for limiting modulation and for limiting power.

RESPONSE: The modulation control and power limiting functions are controlled by **AS5CMP-21** (FCC equipment authorization March 30, 1998) which supplies the signals to be amplified. External to the CAM there are cavity type Transmit Filters which limit spurious and harmonic content. The performance characteristics of these filters are included in Figures 9a, 9b and 9c

Complete circuit diagrams.

RESPONSE:

The complete circuit diagrams for the Amplifier are included with the documents for which confidential status has been requested and are included in Exhibit 5c.

COMPLETE CIRCUIT DIAGRAMS

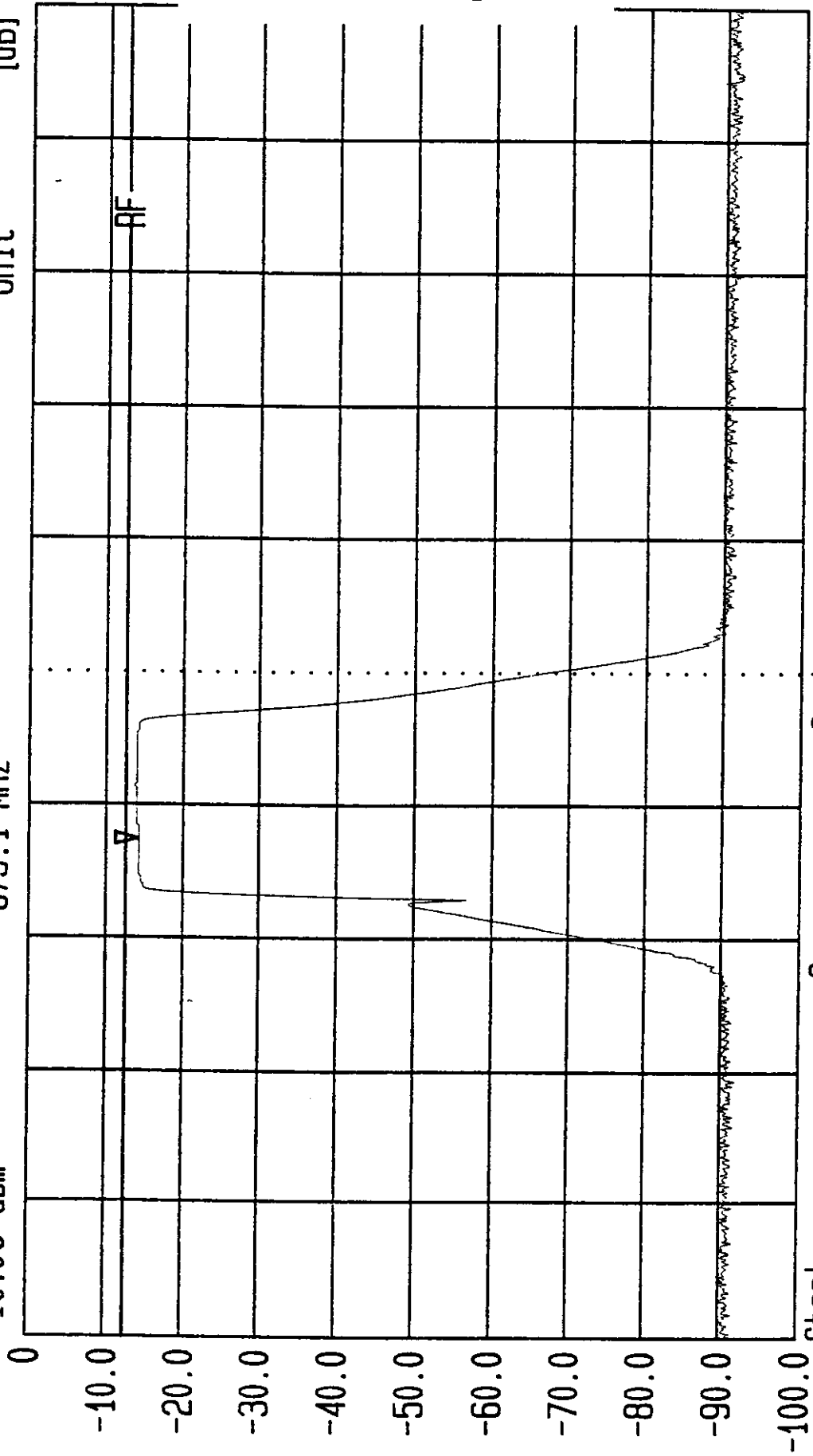
Please see Exhibit 5c

(LUCENT TECHNOLOGIES CONFIDENTIAL PROPRIETARY INFORMATION)
(MPD TECHNOLOGIES CONFIDENTIAL PROPRIETARY INFORMATION)



Figure 9a
AS5CMP-25
CDMA Amplifier Module
Lucent Technologies Inc.

Date 03.Jun.'98 Time 01:24:06
Ref.Lvl -10.00 dBm
Marker -1.50 dB
875.1 MHz
Res.Bw 30.0 KHz [3dB]
TG.Lvl -20.00 dBm
CF.Stp 20.000 MHz
Vid.Bw 30 KHz
RF:Att 0 dB
Unit [dB]



Start 800 MHz
Center 900 MHz
Stop 1 GHz
Span 200 MHz
Sweep 680 ms
A Band Filter Characteristics

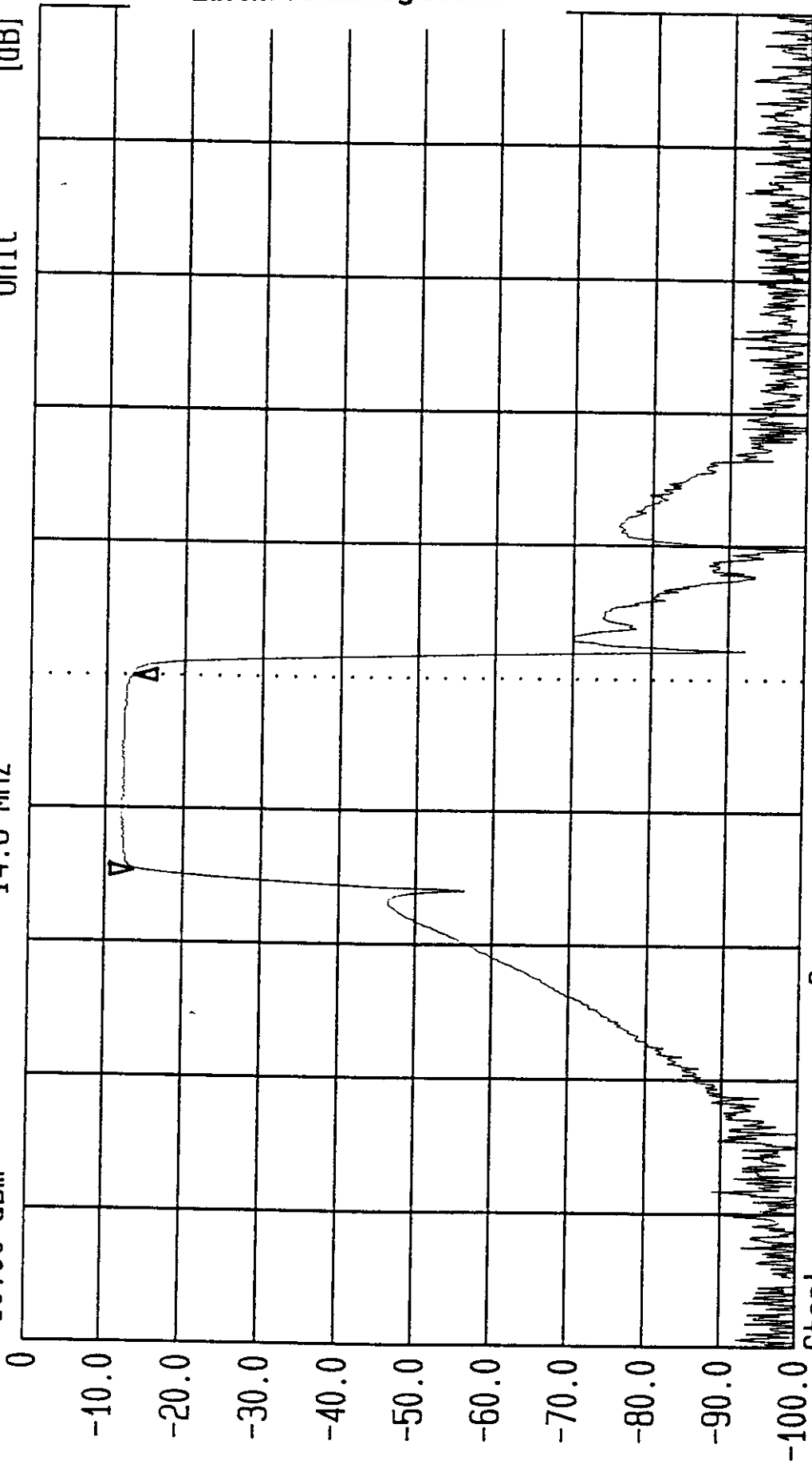


Date 01 Jun '98 Time 22:29:03

Ref.Lvl -10.00 dBm
Delta 0.18 dB
14.6 MHz

Res.Bw 3.0 kHz [3dB]
TG.Lvl -20.00 dBm
CF.Stp 10.000 MHz

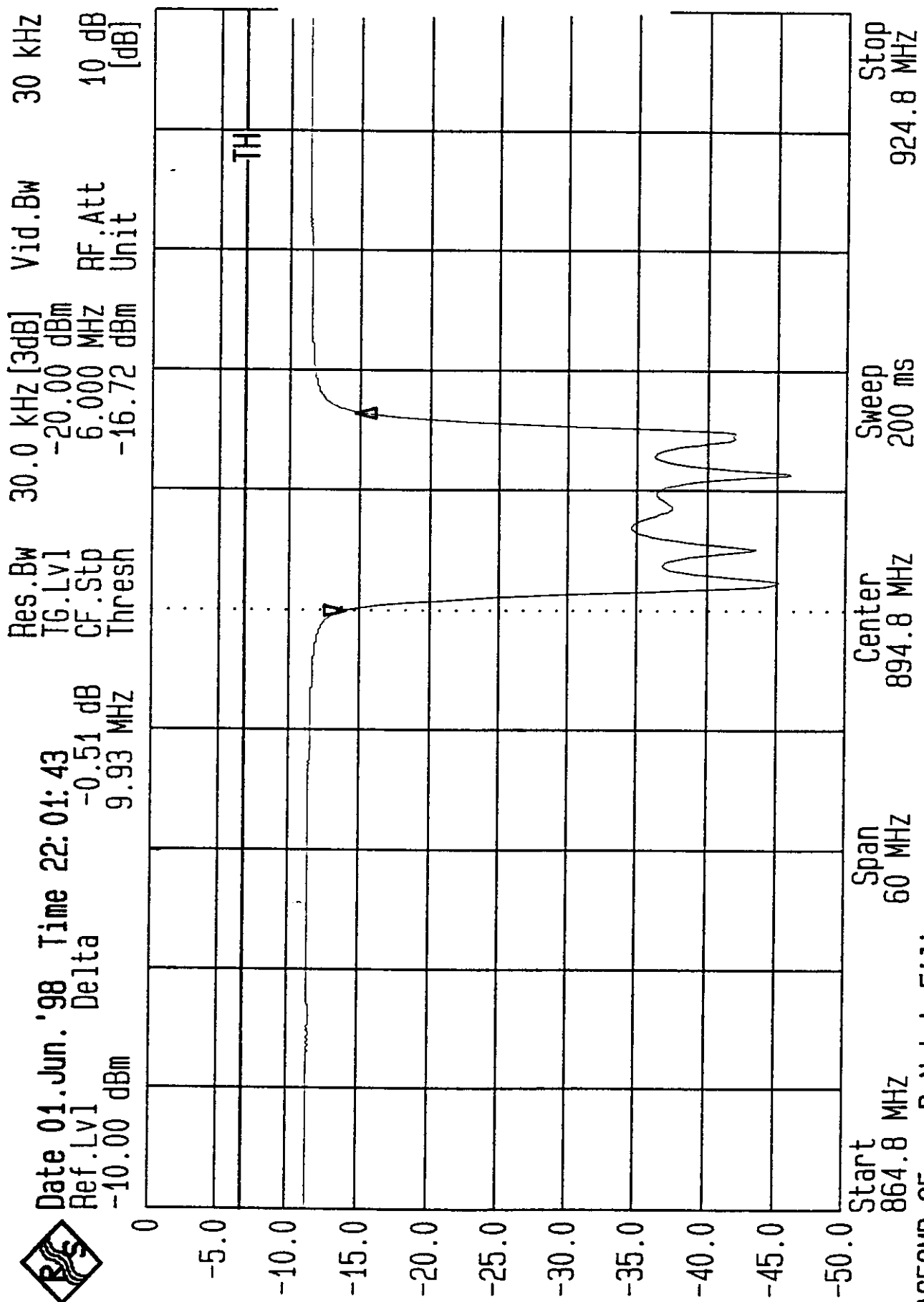
Vid.Bw 3 kHz
RF.Att 10 dB
Unit [dB]



AS5CMP-25 B Transmit and Notch Filters
 CAM
 Start 843.9 MHz Span 100 MHz Center 893.9 MHz Sweep 34 s Stop 943.9 MHz
 SW A02145 KS 2423 L1 847205533 56 0134
 KS 24162, L2 → KS 24050 L2, 847691532

Figure 9b
 AS5CMP-25
 CDMA Amplifier Module
 Lucent Technologies Inc.

Figure 9c
 AS5CMP-25
 CDMA Amplifier Module
 Lucent Technologies Inc.



AS5CMP-25 B Notch Filter
 CAM

Exhibit 10

SECTION 2.983 (d) (12)

For equipment employing digital modulation techniques, a detailed description of the modulation system to be use, including response characteristics of any filters provided, and a description of the modulating wavetrain, shall be submitted for the maximum rated conditions under which the equipment will be operated.

RESPONSE:

These functions are controlled by the AS5CMP-21 (FCC equipment authorization March 30, 1998) which supplies the signals to be amplified.

Exhibit 11

SECTION 2.983 (e)

The data required by Section 2.985 through 2.997, inclusive, measured in accordance with the procedures set out in Section 2.999.

RESPONSE:

The following pages include the data required for the Type Acceptance authorization of the FCC ID: AS5CMP-25, measured in accordance with the procedures set out in Section 2.999 of the Rules.

Each required measurement and its corresponding exhibit number are:

- Exhibit 12: Section 2.985 RF Power Output
- Exhibit 13: Section 2.987 Modulation Characteristics
- Exhibit 14: Section 2.989 Occupied Bandwidth
- Exhibit 15: Section 2.991 Spurious Emissions at Antenna Terminals
- Exhibit 16: Section 2.993 Field Strength of Spurious Radiation

Exhibit 12

SECTION 2.985

MEASUREMENT OF RADIO FREQUENCY POWER OUTPUT

The test arrangements used to measure the radio frequency power output of the FCC ID: **AS5CMP-25** CDMA Amplifier Module is on the following page. Measurements were made respectively at each frequency where occupied Bandwidth measurements were performed. The use of the CAM is for a single CDMA carrier. This requires that the J4 power level be calibrated for the specific channel of use. The test configuration, Figure 12a, allowed the measurement of output power for each channel investigated for Occupied Bandwidth. These included the upper lower band edges and at the center channel for each Band.

The CAM system has a maximum power output at the antenna terminals of 35.0 Watts (38.5 dBm) +2 / -4 dB, it also has a minimum power output at the antenna terminals of 0.3 Watts (29.1 dBm +2 / -4 dB, across the Cellular band (869.00 - 894.00 MHz). The signal applied to the CAM is defined in Table 12.1. The power was reset to a minimum of 35.0 Watts at each measurement frequency to verify the spectral performance at that power level at each specific frequency of interest. The attenuation range was also verified. The specific Frequencies and channels and set power level was documented on each "Occupied Bandwidth" sheet.

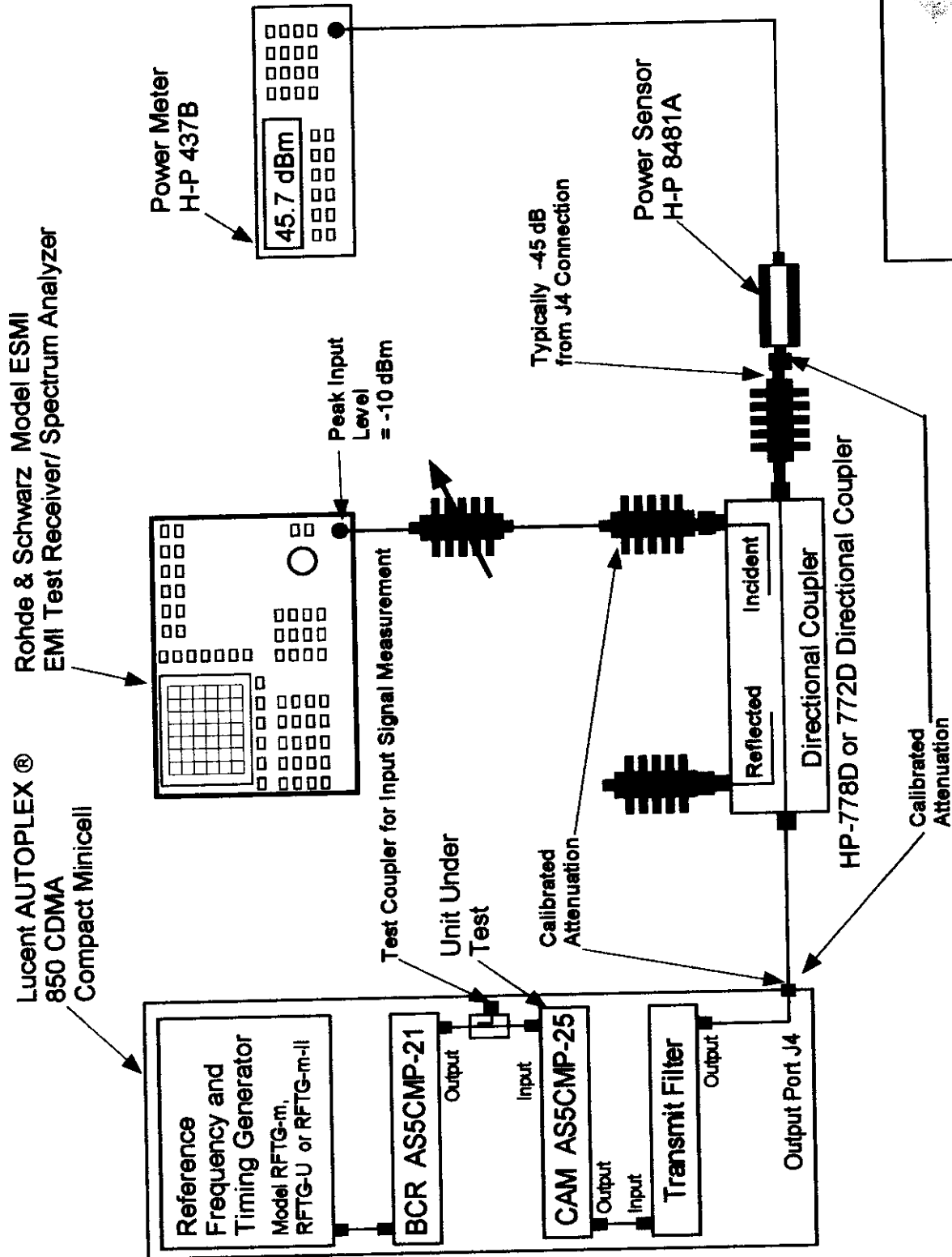
Type	Number of Channels	Fraction of Power (Linear)	Fraction of Power (dB)	Comments
Pilot	1	0.2000	-7.0	Walsh 0
Sync	1	0.0471	-13.3	Walsh 32, always 1/8 rate
Paging	1	0.1882	-7.3	Walsh 1, full rate only
Traffic	6	0.09412 each	-10.3 each	Variable Walsh Assignments, full rate only

TABLE 12.1 Base Station Test Model, Nominal



Lucent Technologies
Bell Labs Innovations

Figure 12A. Test Configuration For RF Power Output



All components are calibrated over the frequency range of interest

Exhibit 12

TEST SETUP FOR MEASUREMENT OF RADIO FREQUENCY POWER OUTPUT

EQUIPMENT :

RFTG:	Reference Frequency and Timing Generator, 15 MHz
BCR:	Baseband Combiner and Radio
CAM:	CDMA Amplifier Module Unit (FCC ID: AS5CMP-25)
Transmit Filter:	Cellular Band Transmit Filter appropriate for the investigated Band
Directional Coupler:	HP 778D Dual Directional Coupler
Power Meter:	HP 437B with HP 8481A Power Head
Plotter:	HP Model 7470A Plotter
Spectrum Analyzer:	Rohde & Schwarz ESMI EMI Test Receiver

Exhibit 12**FCC ID: AS5CMP-25****RESULTS:**

The CAM was configured in the test setup shown in Figure 12A. When measured at the J4 output connection the CAM delivered a minimum of 35.0 Watts +2 dB -0 at all cellular channels/ frequencies of operation. The Occupied Bandwidth measurements data sheets also document the power level measured at each frequency of measurement. The CAM is a single CDMA channel amplifier and its maximum power level is verified at each cell site during installation of the CBR FCC ID: AS5CMP-21 (FCC equipment authorization March 30, 1998)

Exhibit 13

SECTION 2.987

MEASUREMENT OF MODULATION CHARACTERISTICS

The modulation characteristics and accuracy of the CAM are a function of the input signal which is provided by the BCR AS5CMP-21 (FCC equipment authorization March 30, 1998).

Exhibit 14

SECTION 2.989

MEASUREMENT OF OCCUPIED BANDWIDTH

The occupied bandwidth of the FCC ID: AS5CMP-25 CAM was measured using a Rohde & Schwarz ESMI EMI Test Receiver and an HP Model 7470A Plotter. The RF power level was measured and adjusted via the test setup in Figure 14A. The RF output from the transmitter was reduced (to an amplitude usable by the spectrum analyzer) by using a calibrated attenuator. This attenuation was offset on the display and the signal adjusted to the -16.1 dBc level corresponding to the corrected RF power level for a 30 kHz resolution bandwidth. The power calibration was verified for a 1.25 MHz resolution bandwidth which corresponds to the top of the display.

The frequencies and channels used are tabulated on the bottom of each plot. Input and output signals are plotted at each frequency/ channel. Plots are provided for Left Edge, Center and Right Edge of each cellular band. These frequencies were chosen to show the occupied bandwidth in the channels in each of the cellular bands in which this radio can be operated, in compliance with Section 22.902 (c) of the Commission code. There are no SAT or Wide band data signals associated with CDMA. The signal used to show the occupied bandwidth is defined in table 14.1. This is the signal recommended in IS-95 section 10. The power output level was adjusted to provide the documented power levels at the bottom of each chart.

Type	Number of Channels	Fraction of Power (Linear)	Fraction of Power (dB)	Comments
Pilot	1	0.2000	-7.0	Walsh 0
Sync	1	0.0471	-13.3	Walsh 32, always 1/8 rate
Paging	1	0.1882	-7.3	Walsh 1, full rate only
Traffic	6	0.09412 each	-10.3 each	Variable Walsh Assignments, full rate only

TABLE 14.1 Base Station Test Model, Nominal

Exhibit 14

The minimum standard presented in PN-3383 Section 4.5.1.3.1 was followed.

“Suppression Inside the Licensee’s Frequency Block(s)”

For all frequencies within the base station transmit band of 869.00 to 894.00 MHz that are within the specific block(s) allocated to the operator's system, the total conducted spurious emissions in any 30kHz band greater than 750 kHz for the CDMA channel center frequency shall not exceed a level of -45 dBc....

A Resolution Bandwidth of 30 kHz is based on our experience with Section 22.917 of The Code and lacking other guidance.

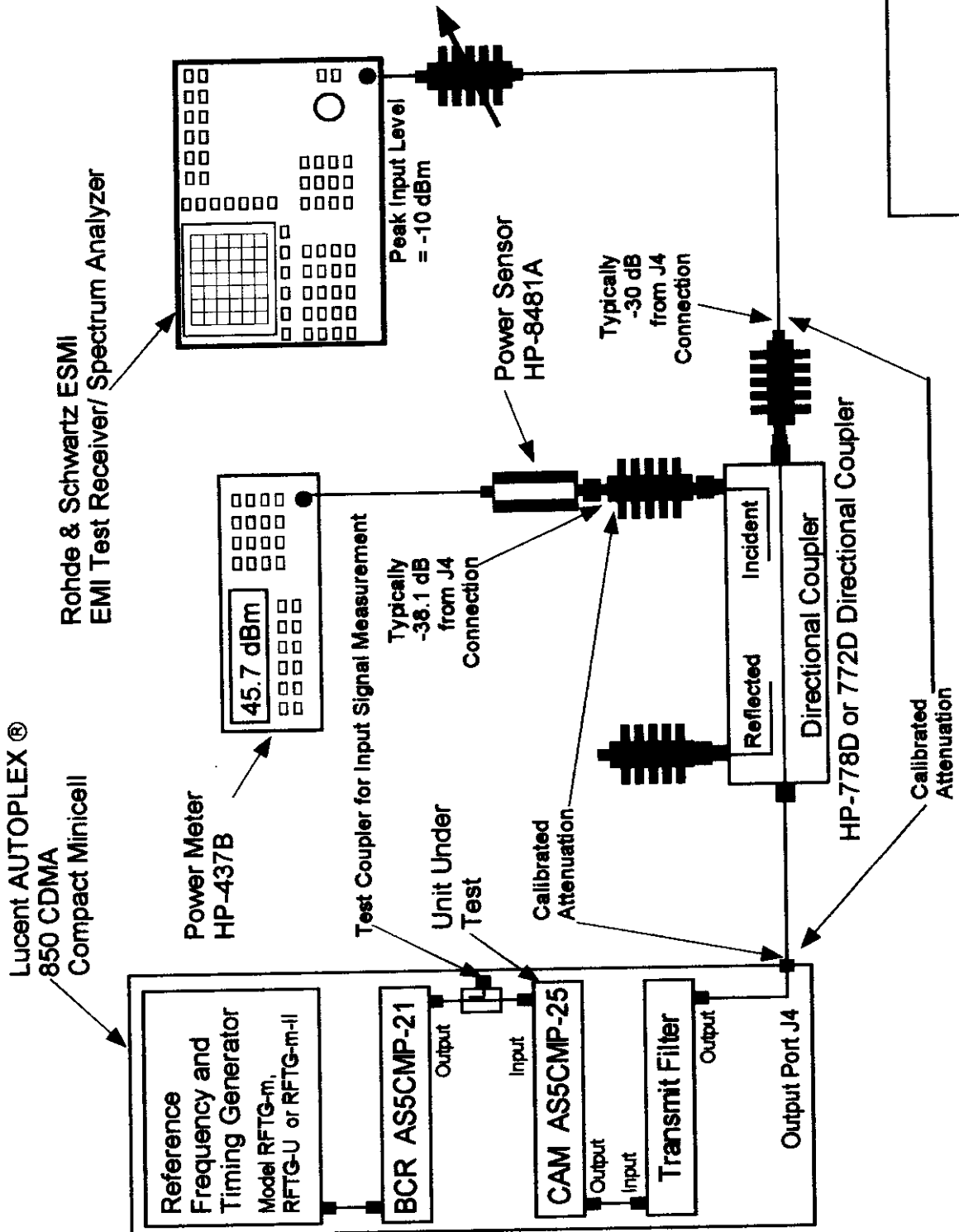
The spectrum analysis output plot shows the peak of the CDMA channel signal 16.1 dB below the zero line of the spectrum analyzer for the following reason: For the CDMA system there is no carrier without modulation. This relationship was used to provide the correct level for an unmodulated carrier vs. The modulated signal.

$10\log (\text{Transmit Bandwidth} / \text{Resolution Bandwidth})$

$$10\log (1.23 \text{ MHz} / 30 \text{ kHz}) = 16.1 \text{ dB}$$



Figure 14A. Test Configuration For Occupied Bandwidth



Lucent AUTOPLEX®
850 CDMA
Compact Minicell

Rohde & Schwartz ESMI
EMI Test Receiver/ Spectrum Analyzer

Power Meter
HP-437B
45.7 dBm

Test Coupler for Input Signal Measurement
Typically
-36.1 dB
from J4
Connection

Unit Under
Test

Power Sensor
HP-8481A

Typically
-30 dB
from J4
Connection

Reflected
Incident
Directional Coupler

HP-778D or 772D Directional Coupler

Calibrated
Attenuation

Reference
Frequency and
Timing Generator
Model RFTG-m,
RFTG-U or RFTG-m-II

BCR AS5CMP-21

CAM AS5CMP-25

Transmit Filter

Output Port J4


Exhibit 14

TEST SETUP FOR MEASUREMENT OF OCCUPIED BANDWIDTH

EQUIPMENT

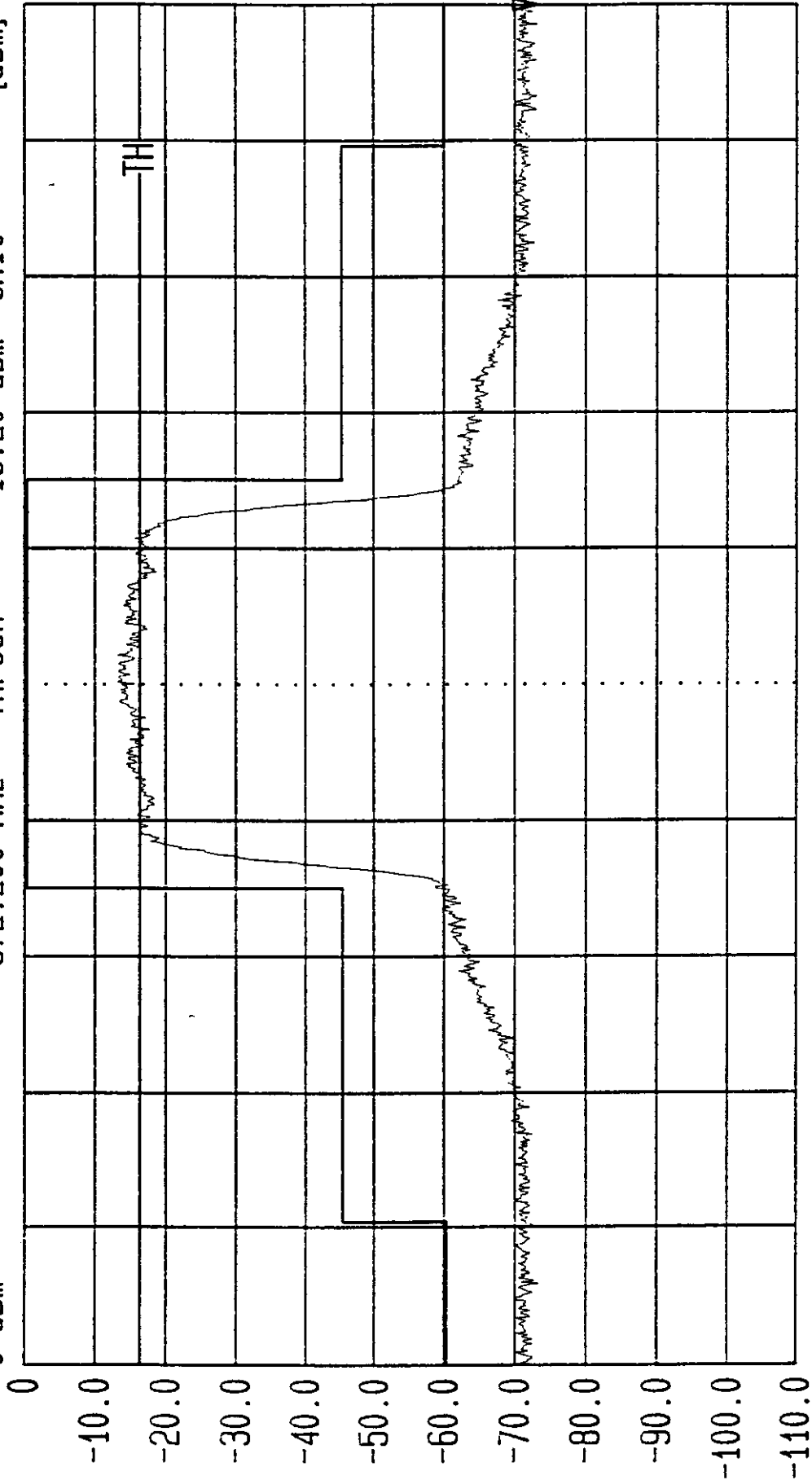
RFTG:	Reference Frequency and Timing Generator, 15 MHz
BCR:	Baseband Combiner and Radio
CAM:	CDMA Amplifier Module Unit (FCC ID: AS5CMP-25)
Transmit Filter:	Cellular Band Transmit Filter appropriate for the investigated Band
Directional Coupler:	HP 778D Dual Directional Coupler
Power Meter:	HP 437B with HP 8481A Power Head
Plotter:	HP Model 7470A Plotter
Spectrum Analyzer:	Rohde & Schwarz ESMI EMI Test Receiver

RESULTS: The following exhibits illustrate the spectrums investigated and document compliance.

Very truly yours -

W. Steve Majkowski
FCC Test Engineer



LVL OFF
 Date 30.May.'98 Time 00:05:53
 Ref.Lvl 0 dBm Marker -73.10 dBm
 Res.Bw 30.0 kHz [3dB] Vid.Bw 30 kHz
 TG.Lvl off
 CF.Stp 500.000 kHz RF.Att 10 dB
 Thresh -16.20 dBm Unit [dBm]



Start 867.2 MHz
 Stop 872.2 MHz
 Center 869.7 MHz
 Sweep 20 ms
 Span 5 MHz
 AS5CMP-25 FCC Occupied Bandwidth; A" Band, Channel# 1013, INPUT to CAM
 CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc +/- 1.98 MHz



LVLOFF

Date 29.May.'98 Time 08:58:36

Ref.Lvl 45.70 dBm

Marker 29.11 dBm

869.823 MHz

Res.Bw 30.0 kHz [3dB]

TG.Lvl off

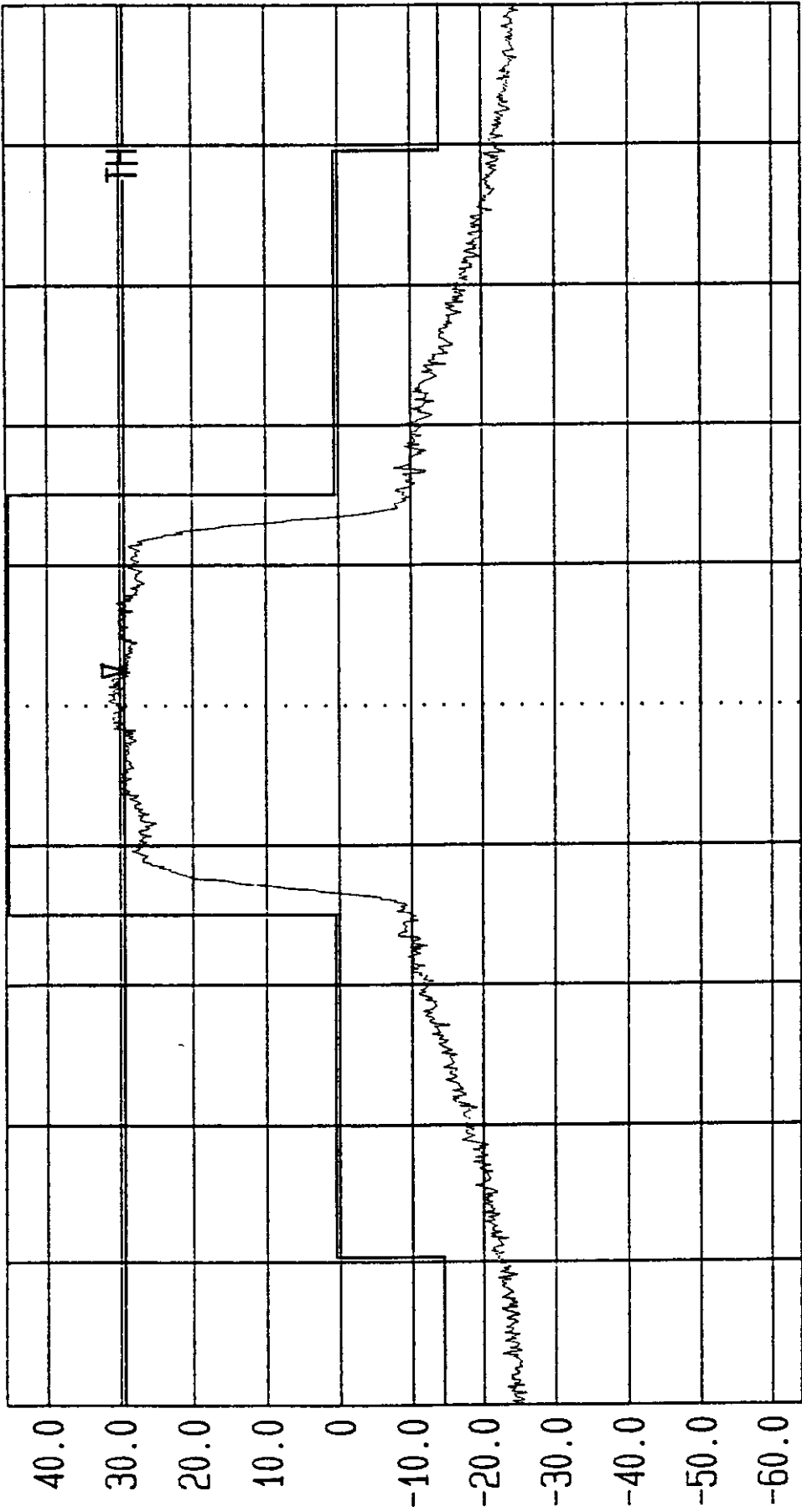
CF.Stp 500.000 kHz

Thresh 29.38 dBm

Vid.Bw 30 kHz

RF.Att 40 dB

Unit [dBm]



Start 867.2 MHz Stop 872.2 MHz

Span 5 MHz Sweep 20 ms

Center 869.7 MHz

AS5CMP-25 FCC Occupied Bandwidth: A" Band, Channel 1013 48 W at CAM/ 35 W at J4

CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc +/- 1.98 MHz



LVL OFF

Date 30.May.'98 Time 00:02:28

Ref.Lvl 0 dBm

Marker -70.78 dBm

873.250 MHz

Res.Bw 30.0 KHz [3dB]

TG.Lvl Off

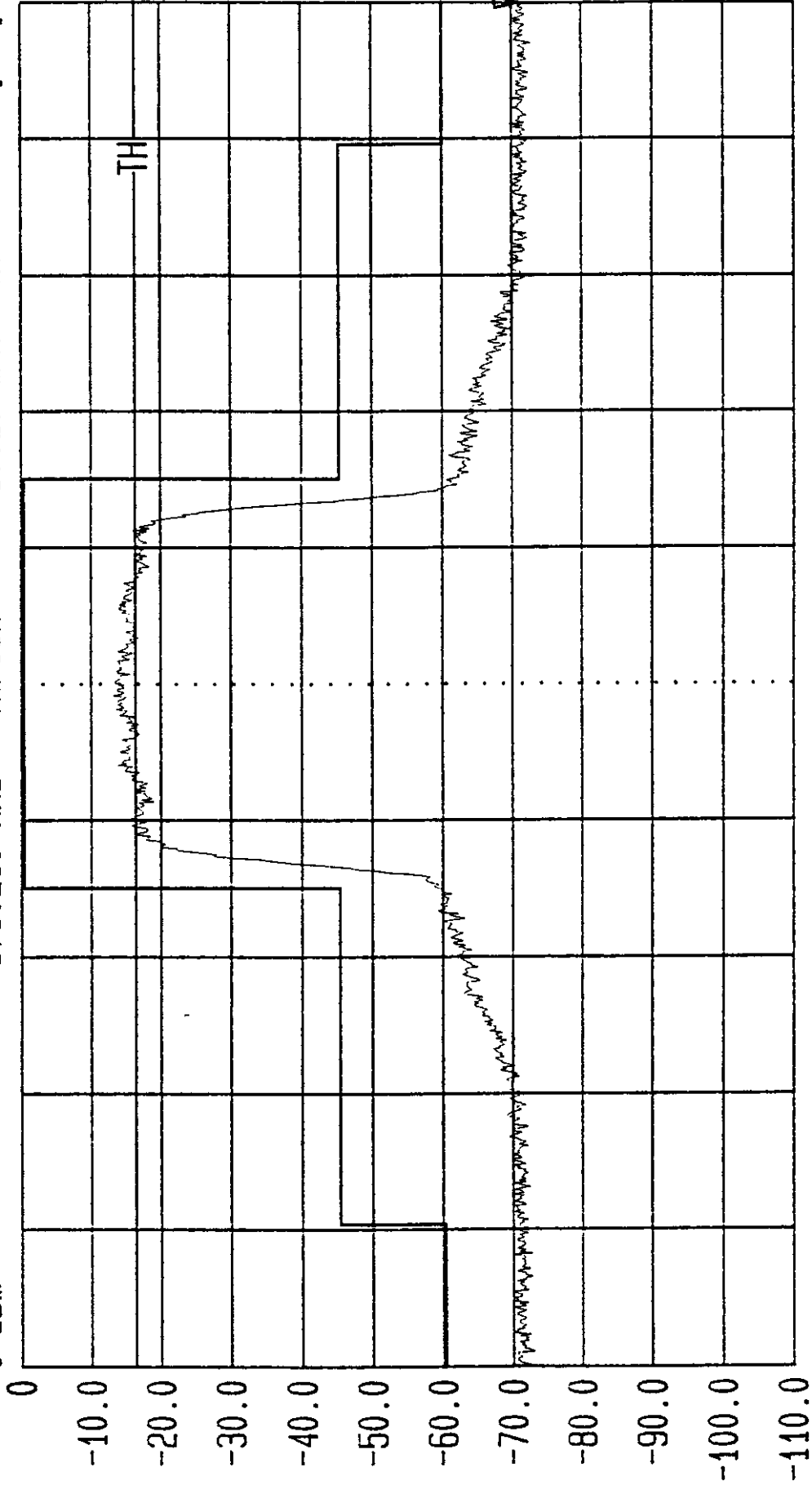
CF.Stp 500.000 KHz

Thresh -16.20 dBm

Vid.Bw 30 KHz

RF.Att 10 dB

Unit [dBm]



Start 868.25 MHz

Span 5 MHz

Center 870.75 MHz

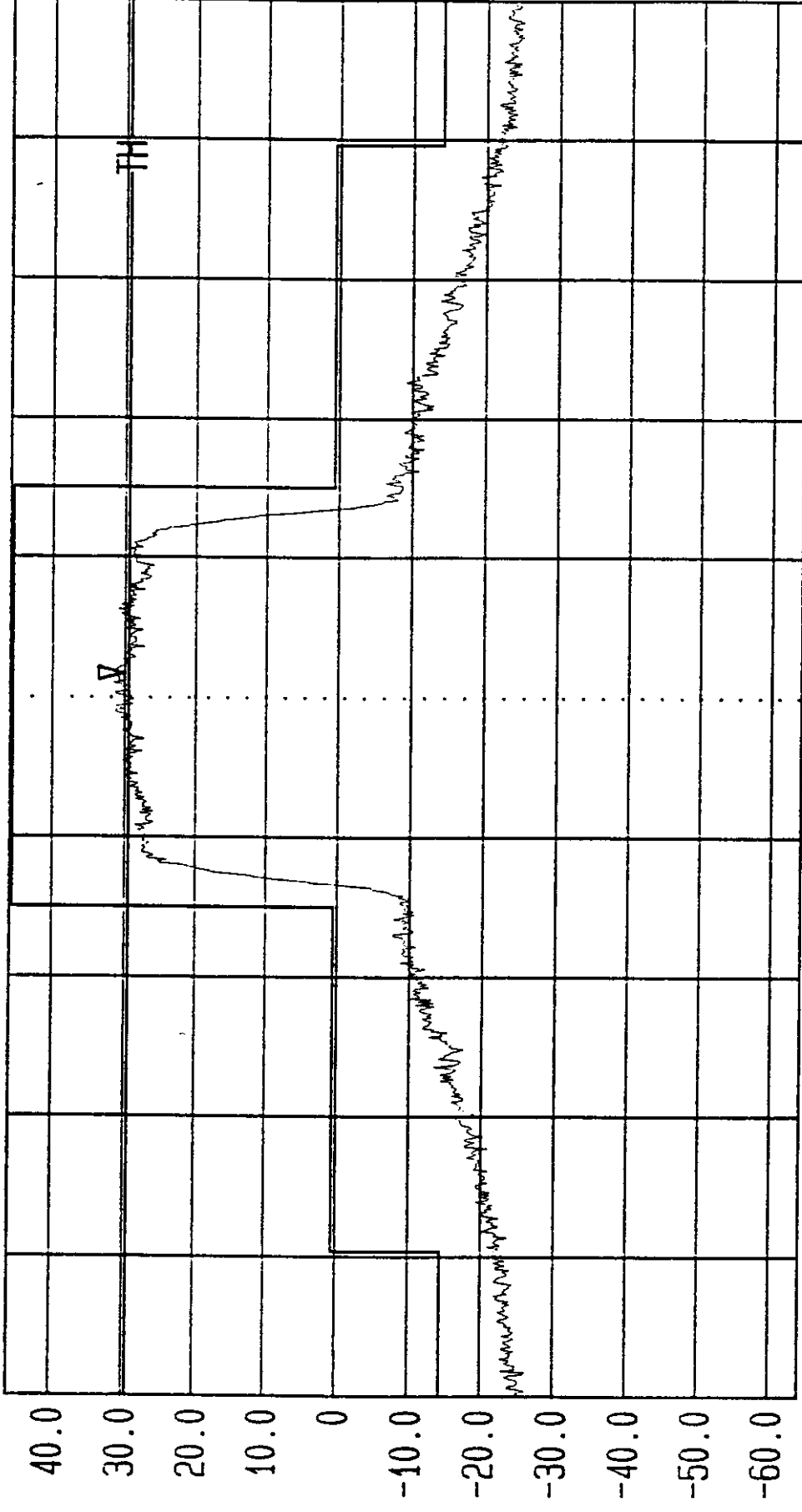
Sweep 20 ms

Stop 873.25 MHz

AS5CMP-25 FCC Occupied Bandwidth; A Band, Channel# 25, INPUT to CAM
CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc +/- 1.98 MHz



Date 29.May.'98 Time 09:03:06
 Ref.Lvl 45.70 dBm Marker 30.31 dBm
 LVLOFF
 Res.Bw 30.0 KHz [3dB] TG.Lvl Off
 CF.Stp 500.000 KHz RF.Att 40 dB
 Thresh 29.38 dBm Unit [dBm]
 Vid.Bw 30 KHz



Start 868.25 MHz Stop 873.25 MHz
 Span 5 MHz Sweep 20 ms
 Center 870.75 MHz
 AS5CMP-25 FCC Occupied Bandwidth: A Band, Channel# 25, 48 W at CAM / 35 W at J4
 CAM Output IS-97 Mask: -45 dBc at Fc +/- 750kHz / -60 dBc at Fc +/- 1.98 MHz

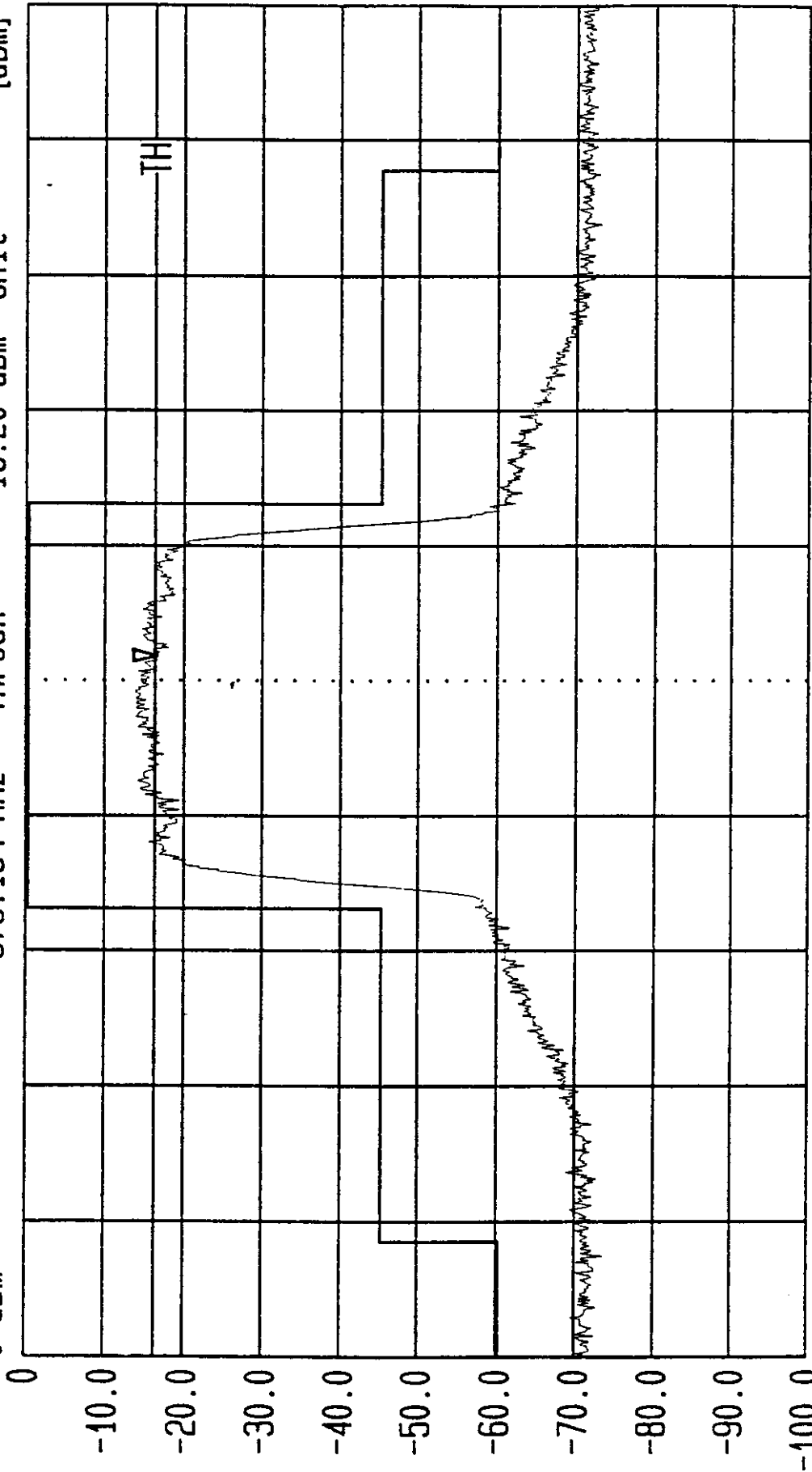
LVLOFF
Date 03 Jun '98 Time 00:48:47

Ref.Lvl 0 dBm

Marker -16.53 dBm
875.194 MHz

Res.Bw 30.0 kHz [3dB]
TG.Lvl off
CF.Stp 500.000 kHz
Thresh -16.20 dBm

Vid.Bw 30 kHz
RF.Att 30 dB
Unit [dBm]



Start 872.6 MHz

Span 5 MHz

Center 875.1 MHz

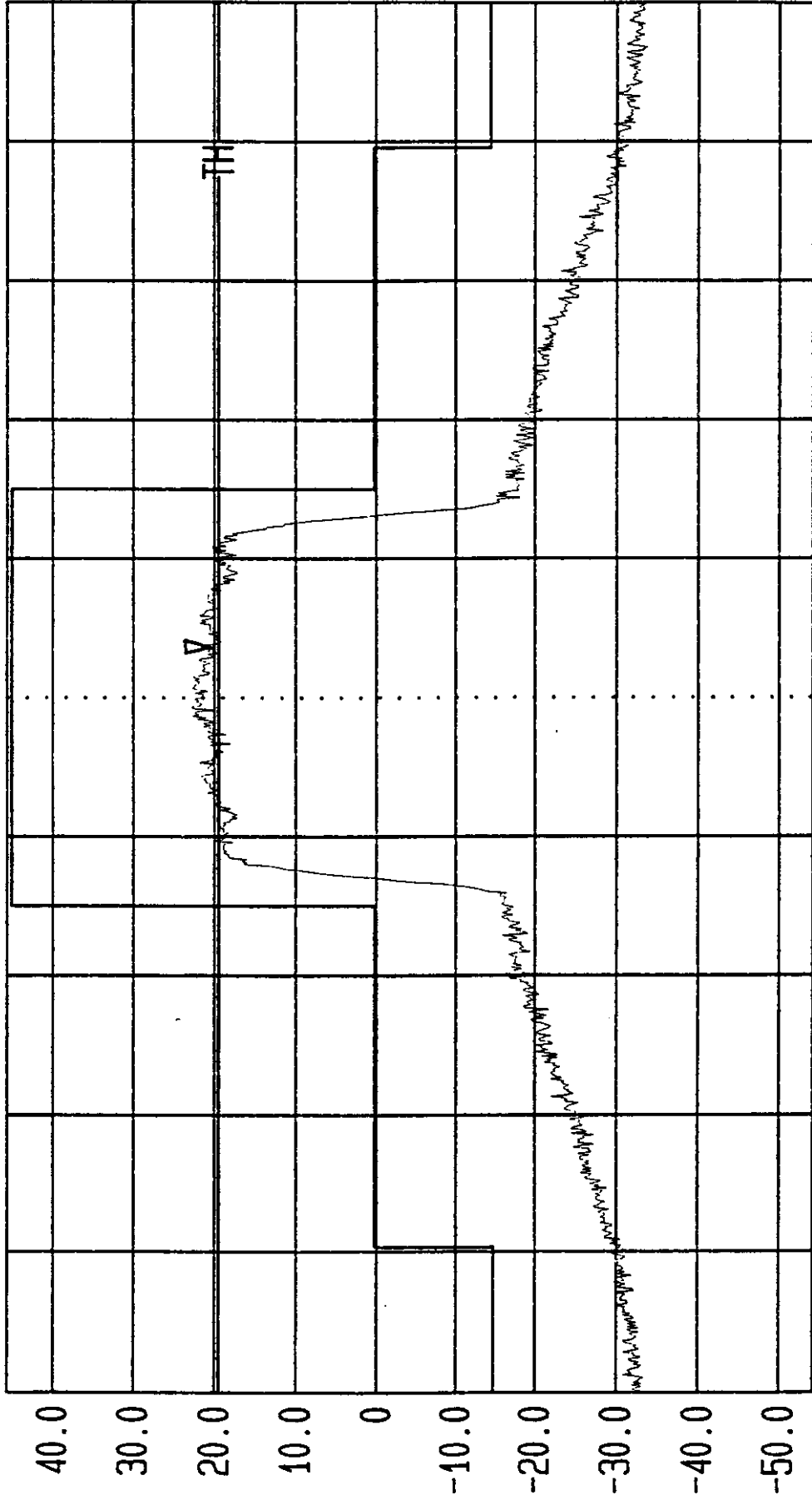
Sweep 20 ms

Stop 877.6 MHz

AS5CMP-25 FCC Occupied Bandwidth: A Band Channel# 167: INPUT to CAM
CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz



LVLOFF
 Date 03.Jun.'98 Time 01:01:17
 Ref.Lvl 45.70 dBm
 Marker 875.194 MHz
 Res.Bw 30.0 kHz [3dB]
 TG.Lvl off
 CF.Stp 500.000 kHz
 Thresh 19.50 dBm
 Vid.Bw 30 kHz
 RF.Att 30 dB
 Unit [dBm]



Start 872.51 MHz
 Span 5 MHz
 Center 875.01 MHz
 Sweep 20 ms
 Stop 877.51 MHz
 AS5CMP-25 FCC Occupied Bandwidth: A Band Channel# 167: 35W @ J4/ 48 W @ CAM
 CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz



LVLOFF

Date 29.May.'98 Time 23:59:08

Ref.Lvl 0 dBm

Marker -71.00 dBm

880.990 MHz

Res.Bw 30.0 kHz [3dB]

TG.Lvl off

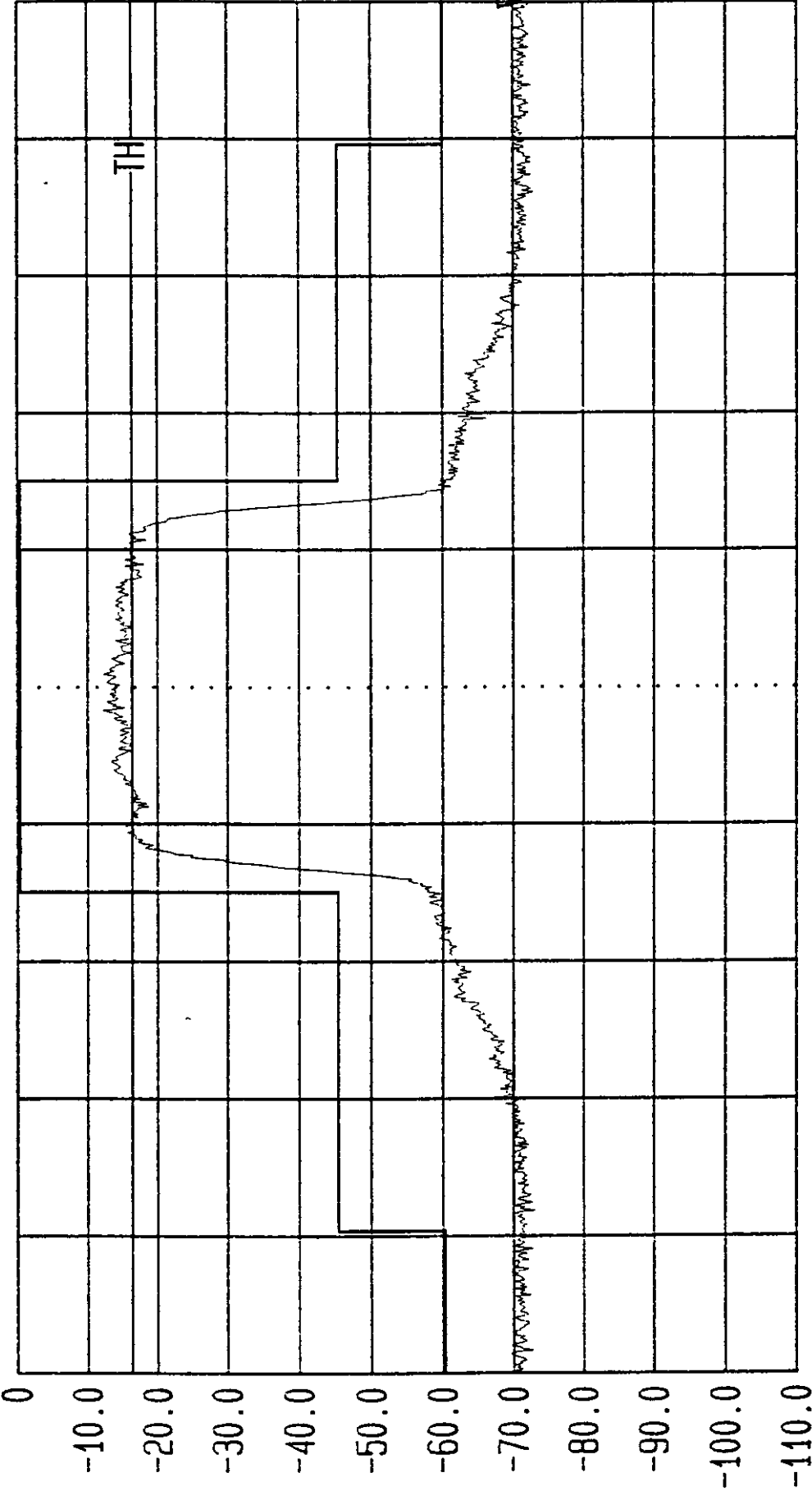
CF.Stp 500.000 kHz

Thresh -16.20 dBm

Vid.Bw 30 kHz

RF.Att 10 dB

Unit [dBm]



Start 875.99 MHz

Span 5 MHz

Center 878.49 MHz

Sweep 20 ms

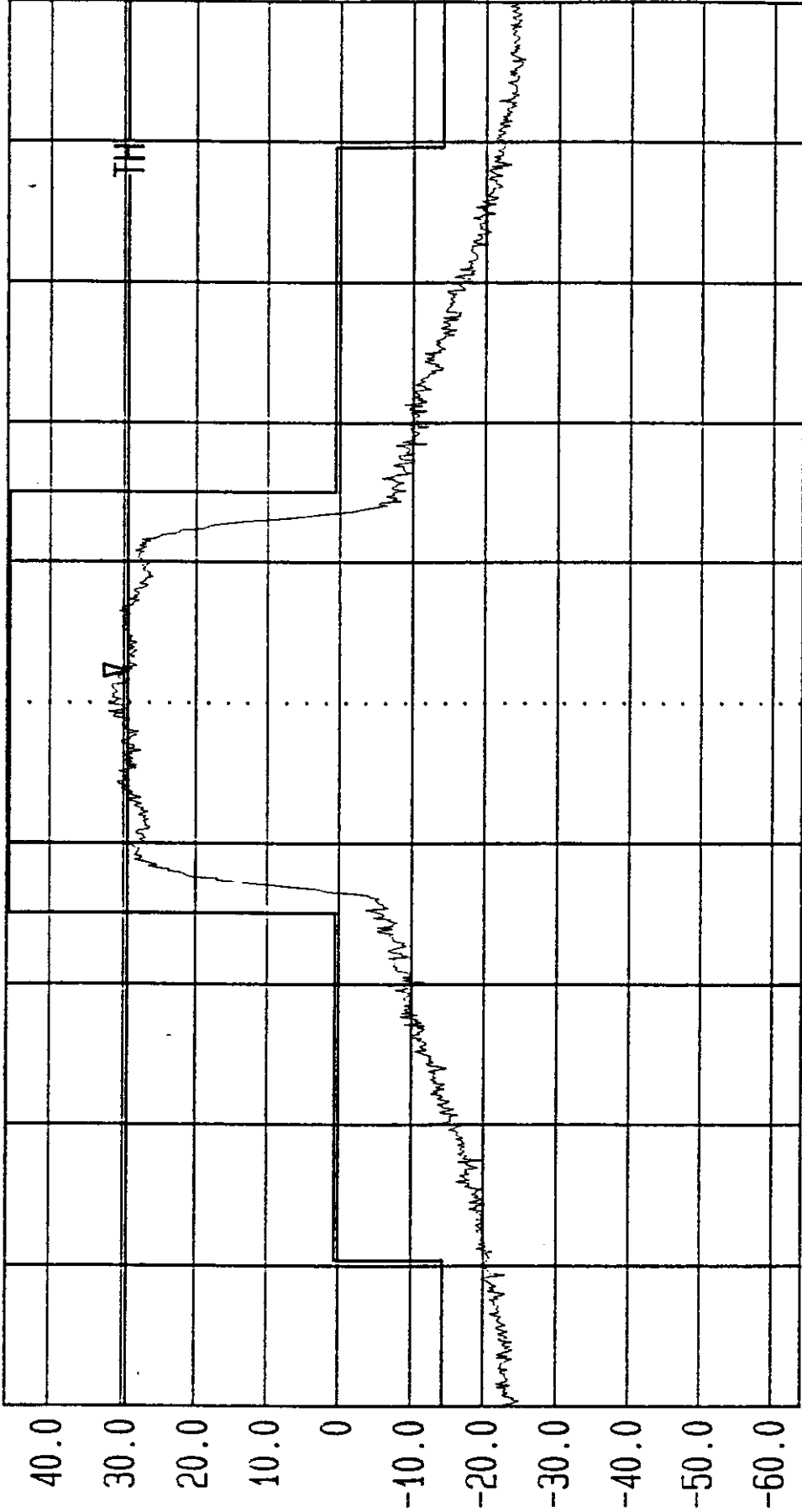
Stop 880.99 MHz

AS5CMP-25 FCC Occupied Bandwidth: A Band, Channel# 283, INPUT to CAM

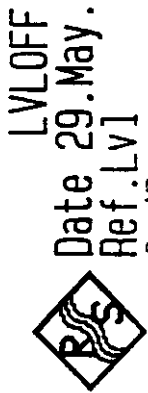
CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc +/- 1.98 MHz



LVLOFF
 Date 29.May.'98 Time 09:07:53
 Ref.Lvl 45.70 dBm
 Marker 878.601 MHz
 Res.Bw 30.0 kHz [3dB]
 TG.Lvl off
 CF.Stp 500.000 kHz
 Thresh 29.38 dBm
 Vid.Bw 30 kHz
 RF.Att 40 dB
 Unit [dBm]



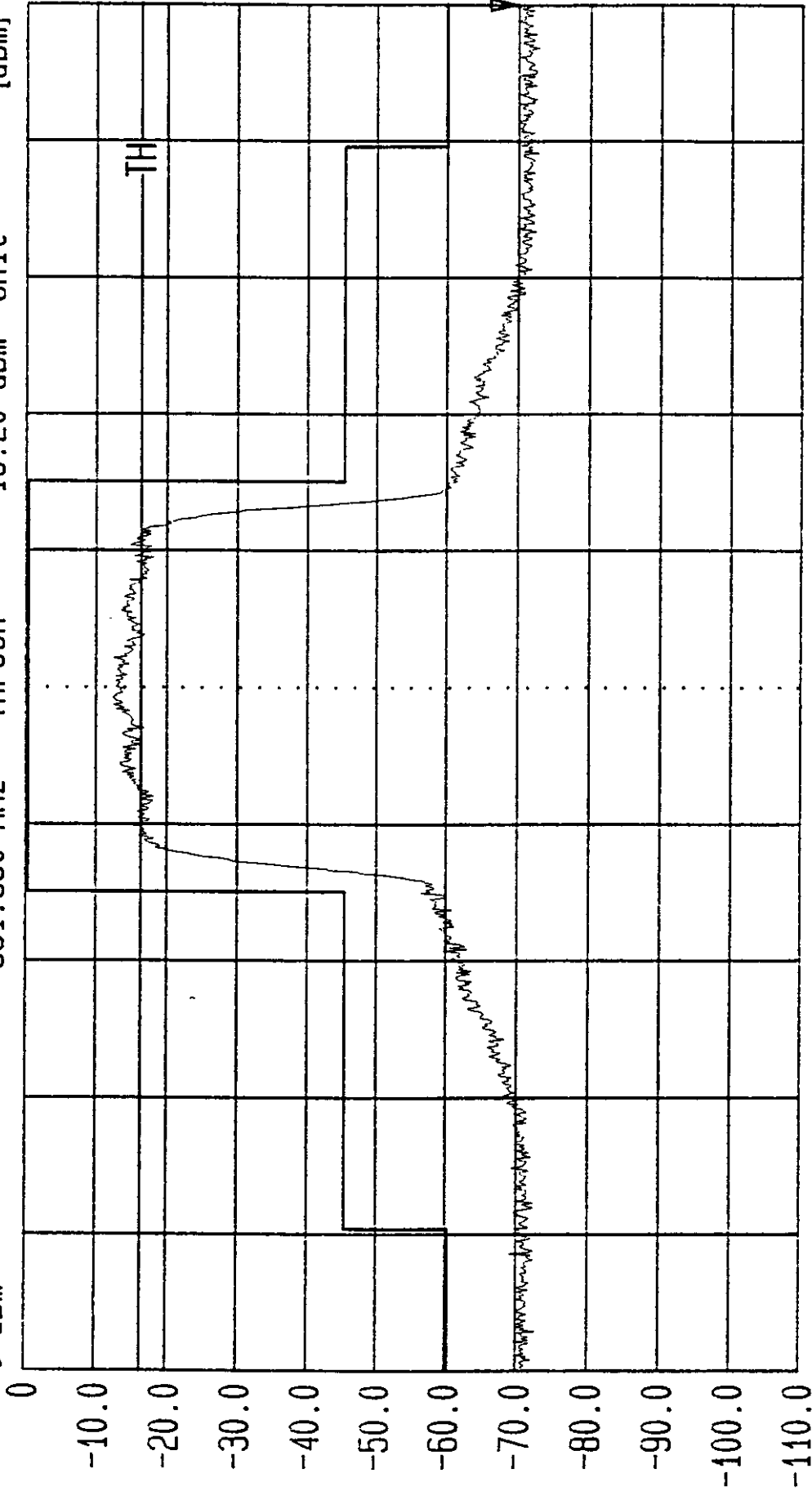
Start 875.99 MHz
 AS5CMP-25 FCC Occupied Bandwidth: A Band, Channel# 283, 48W at CAM/ 35W at J4
 CAM Output IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc +/- 1.98 MHz
 Center 878.49 MHz
 Sweep 20 ms
 Stop 880.99 MHz



Date 29. May. '98 Time 23:55:47
Ref. Lvl 0 dBm Marker -69.21 dBm
881.830 MHz

Res. Bw 30.0 kHz [3dB]
TG. Lvl off
CF. Stp 500.000 kHz
Thresh -16.20 dBm

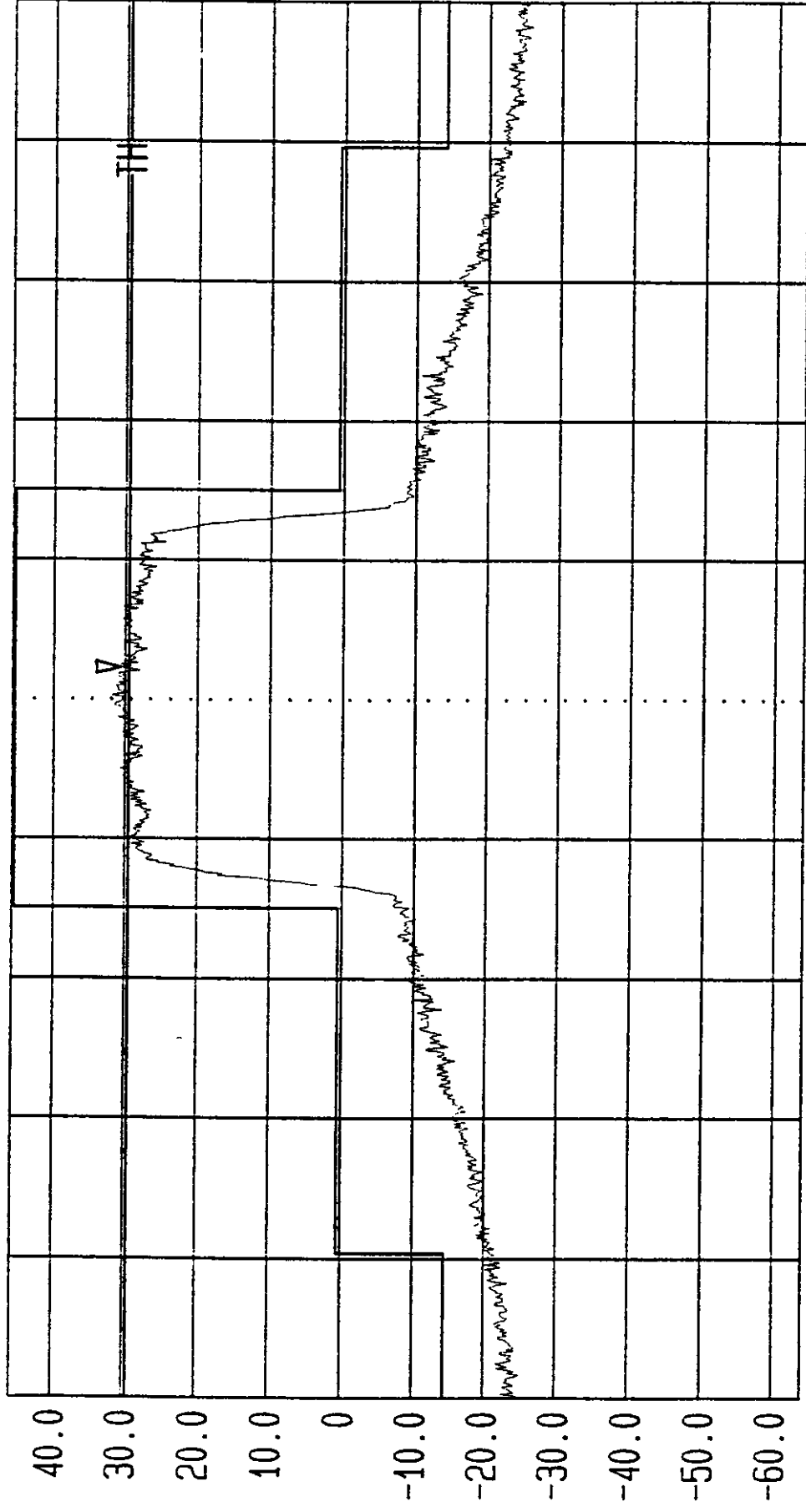
Vid. Bw 30 kHz
RF. Att 10 dB
Unit [dBm]



Start 876.83 MHz Span 5 MHz Sweep 20 ms Stop 881.83 MHz
AS5CMP-25 FCC Occupied Bandwidth: A Band, Channel# 311, INPUT to CAM
CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc +/- 1.98 MHz



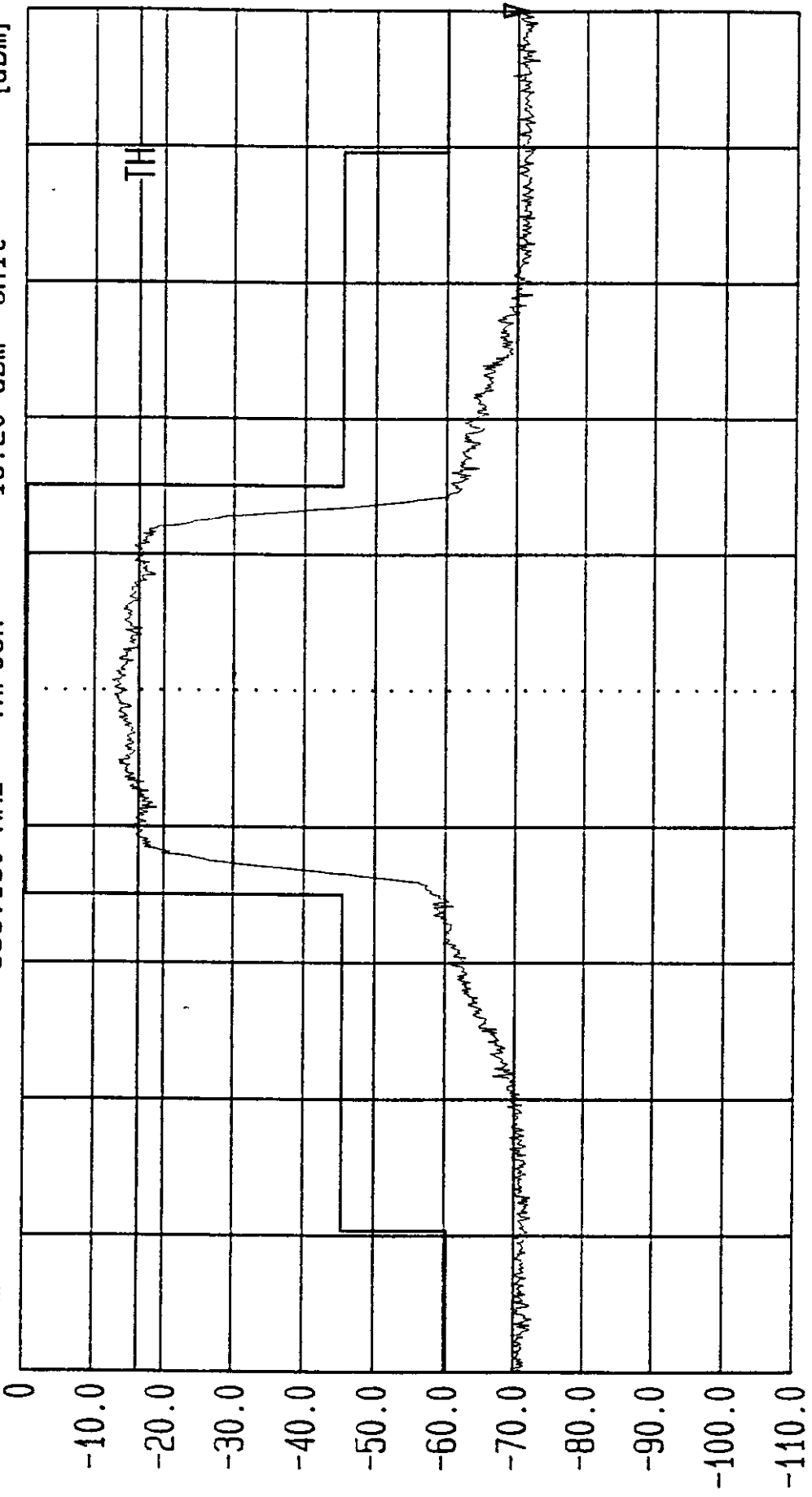
Date 29.May.'98 Time 09:11:45
 Ref.Lvl 45.70 dBm Marker 30.45 dBm
 Res.Bw 30.0 kHz [3dB] TG.Lvl off
 CF.Stp 500.000 kHz RF.Att 40 dB
 Thresh 29.38 dBm Unit [dBm]



Start 876.83 MHz Span 5 MHz Center 879.33 MHz Sweep 20 ms Stop 881.83 MHz
 AS5CMP-25 FCC Occupied Bandwidth: A Band, Channel# 311, 48W at CAM/ 35W at J4
 CAM Output IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc +/- 1.98 MHz



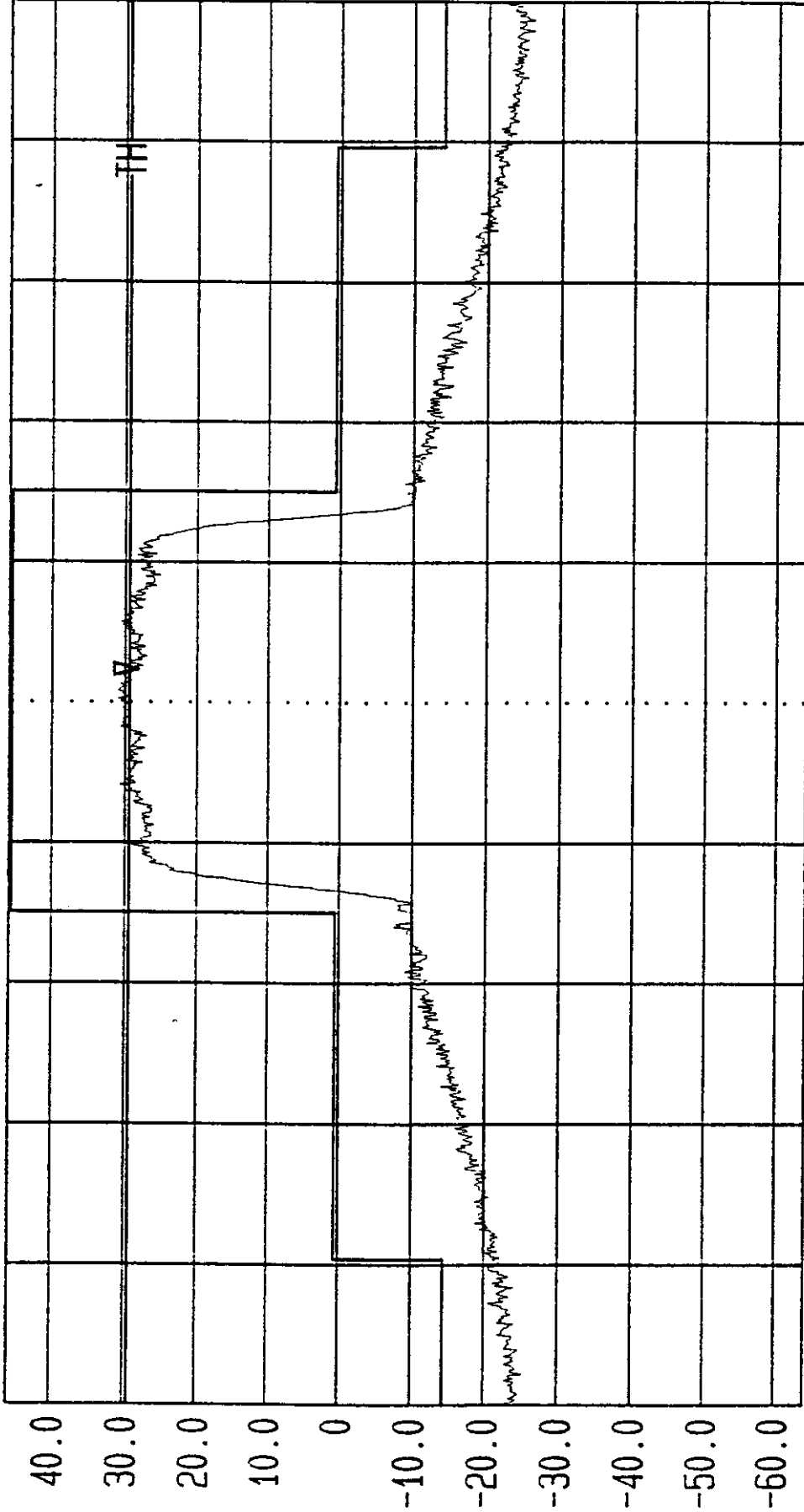
LVLOFF
 Date 29.May.'98 Time 23:52:26
 Ref.Lvl 0 dBm
 Marker 883.180 MHz
 Res.Bw 30.0 kHz [3dB]
 TG.Lvl off
 CF.Stp 500.000 kHz
 Thresh -16.20 dBm
 Vid.Bw 30 kHz
 RF.Att 10 dB
 Unit [dBm]



Start 878.18 MHz
 AS5CMP-25 FCC Occupied Bandwidth; B Band, Channel# 356, INPUT to CAM
 CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc +/- 1.98 MHz
 Stop 883.18 MHz
 Center 880.68 MHz
 Sweep 20 ms
 Span 5 MHz



LVLOFF
Date 29.May.'98 Time 09:15:11
Ref.Lvl 45.70 dBm Marker 27.97 dBm
Res.Bw 30.0 kHz [3dB] Vid.Bw 30 kHz
TG.Lvl off
CF.Stp 500.000 kHz AF.Att 40 dB
Thresh 29.38 dBm Unit [dBm]



Start 878.18 MHz Center 880.68 MHz Sweep 20 ms Stop 883.18 MHz
AS5CMP-25 FCC Occupied Bandwidth; B Band, Channel# 356, 48W at CAM/ 35W at J4
CAM Output IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc +/- 1.98 MHz

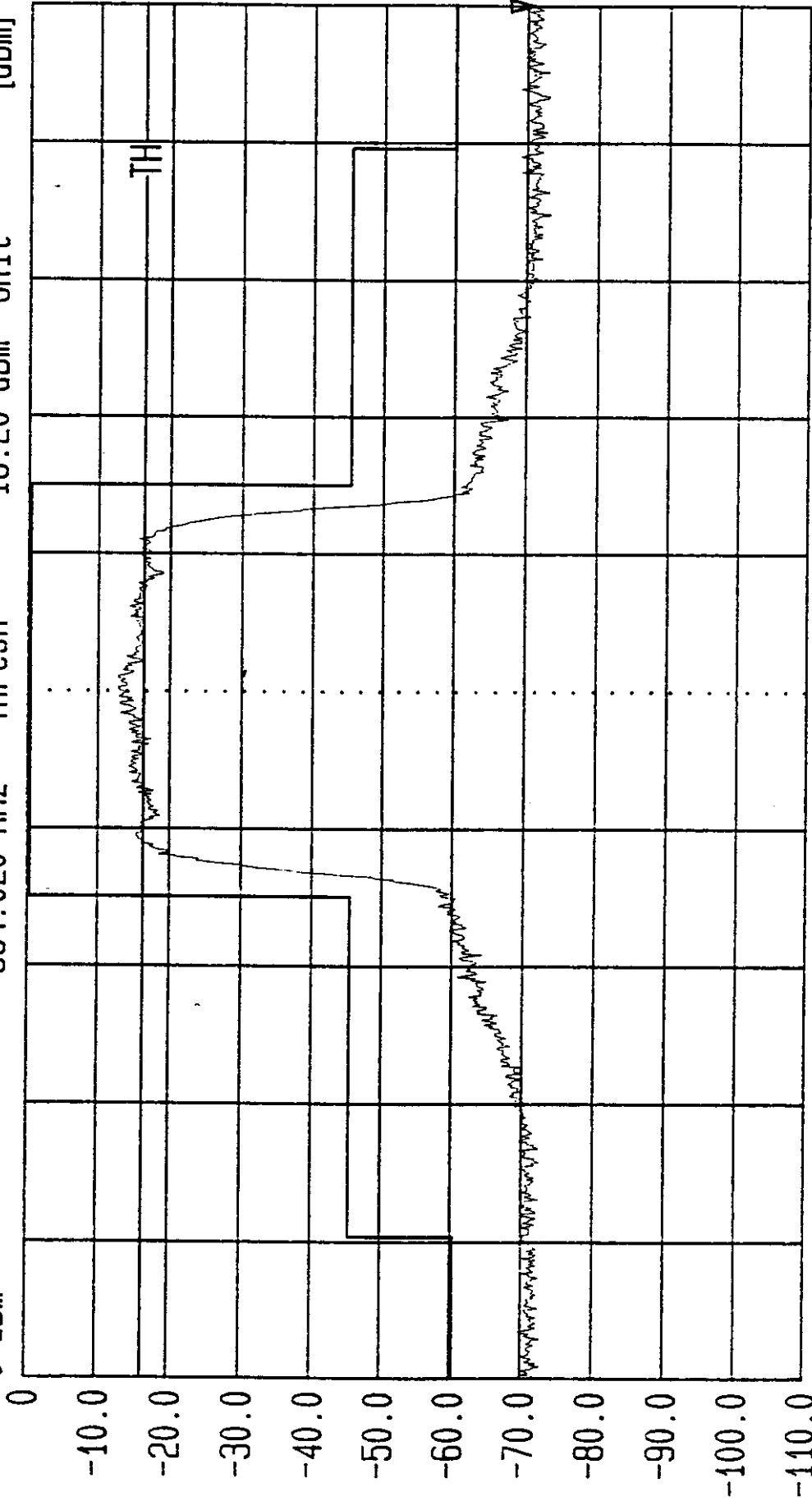


Date 29.May.'98 Time 23:49:00

Ref.Lvl 0 dBm
Marker 884.020 MHz

Res.Bw 30.0 kHz [3dB]
TG.Lvl off
CF.Stp 500.000 kHz
Thresh -16.20 dBm

Vid.Bw 30 kHz
RF.Att 10 dB
Unit [dBm]



Start 879.02 MHz
 Stop 884.02 MHz
 Center 881.52 MHz
 Sweep 20 ms
 Span 5 MHz
 AS5CMP-25 FCC Occupied Bandwidth: B Band, Channel# 384, INPUT to CAM
 CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc +/- 1.98 MHz



LVLOFF

Date 03.Jun.'98 Time 12:04:49

Ref.Lvl 45.70 dBm

Marker -12.22 dBm

891.500 MHz

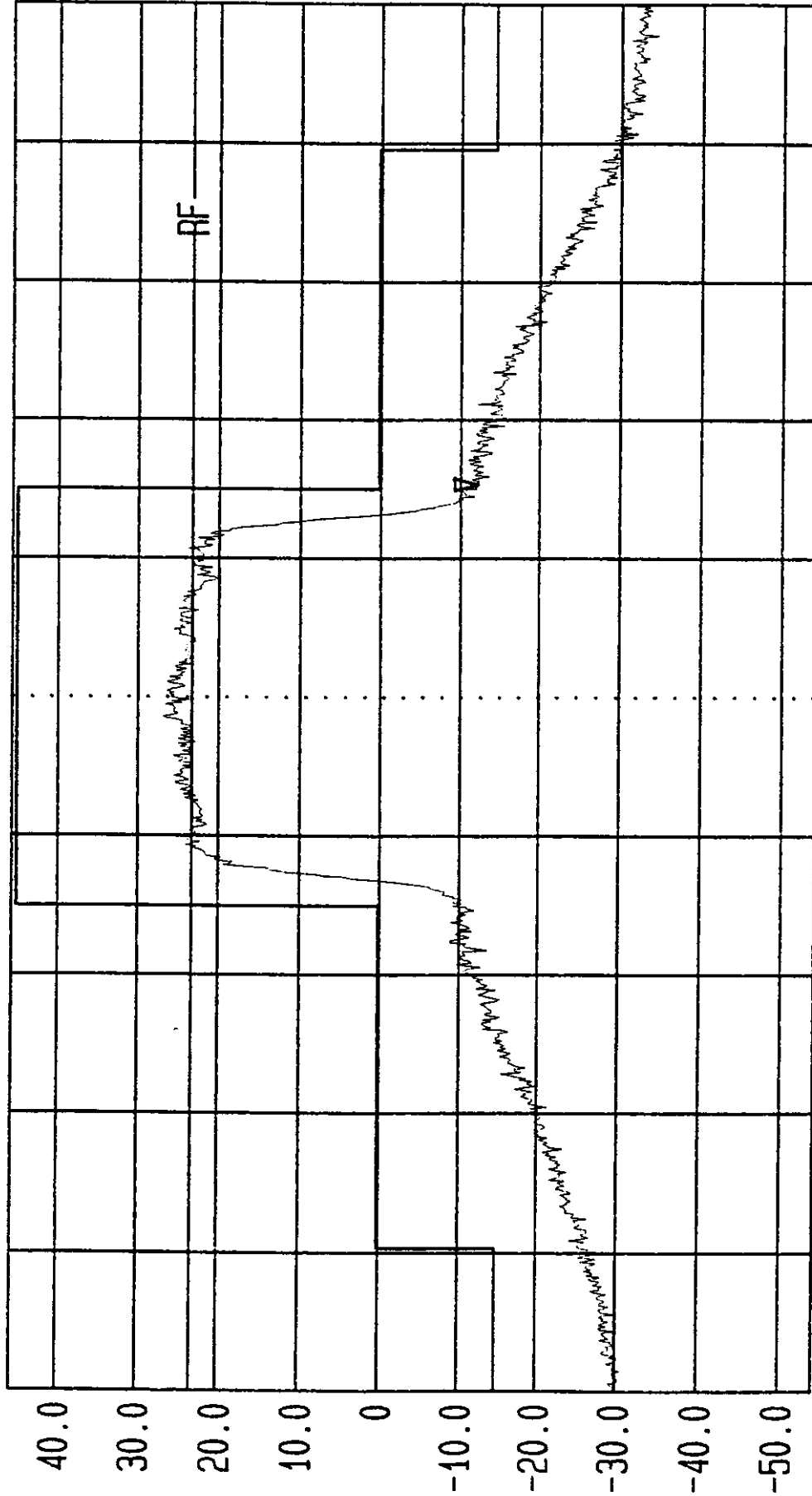
Res.Bw 30.0 kHz [3dB]

TG.Lvl1 -20.00 dBm

CF.Stp 500.000 kHz

Vid.Bw 30 kHz

RF.Att 30 dB [dBm]
Unit



Start

888.23 MHz

Span

5 MHz

Center

890.73 MHz

Sweep

20 ms

Stop

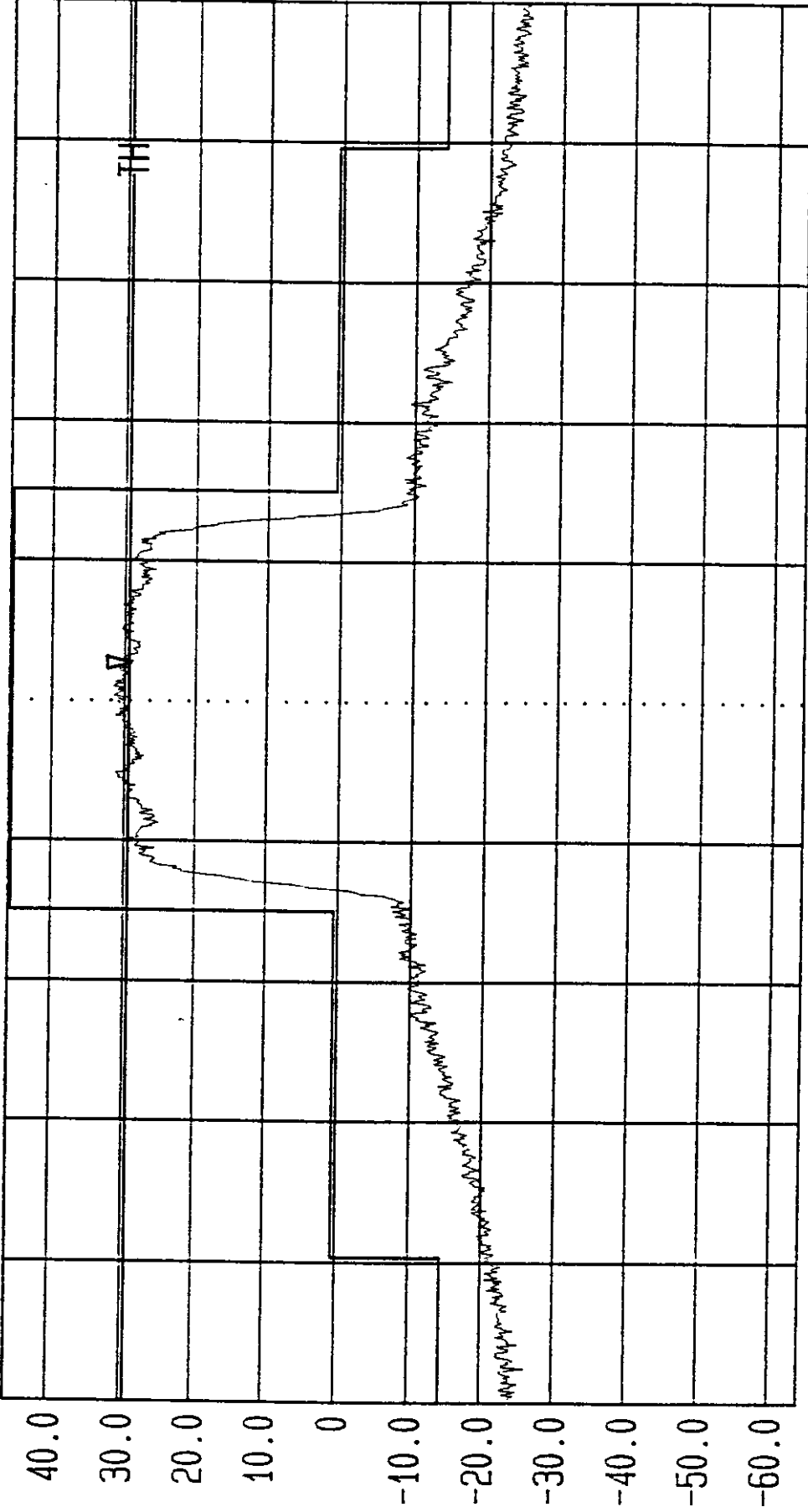
893.23 MHz

AS5CMP-25 FCC Occupied Bandwidth A'Band Channel# 384 35 W @ J4 48 W @ CAM 9 codes

CAM IS-97 Mask: -45 dBc at Fc +/- 750 kHz/ -60 dBc at Fc +/- 1.98 MHz



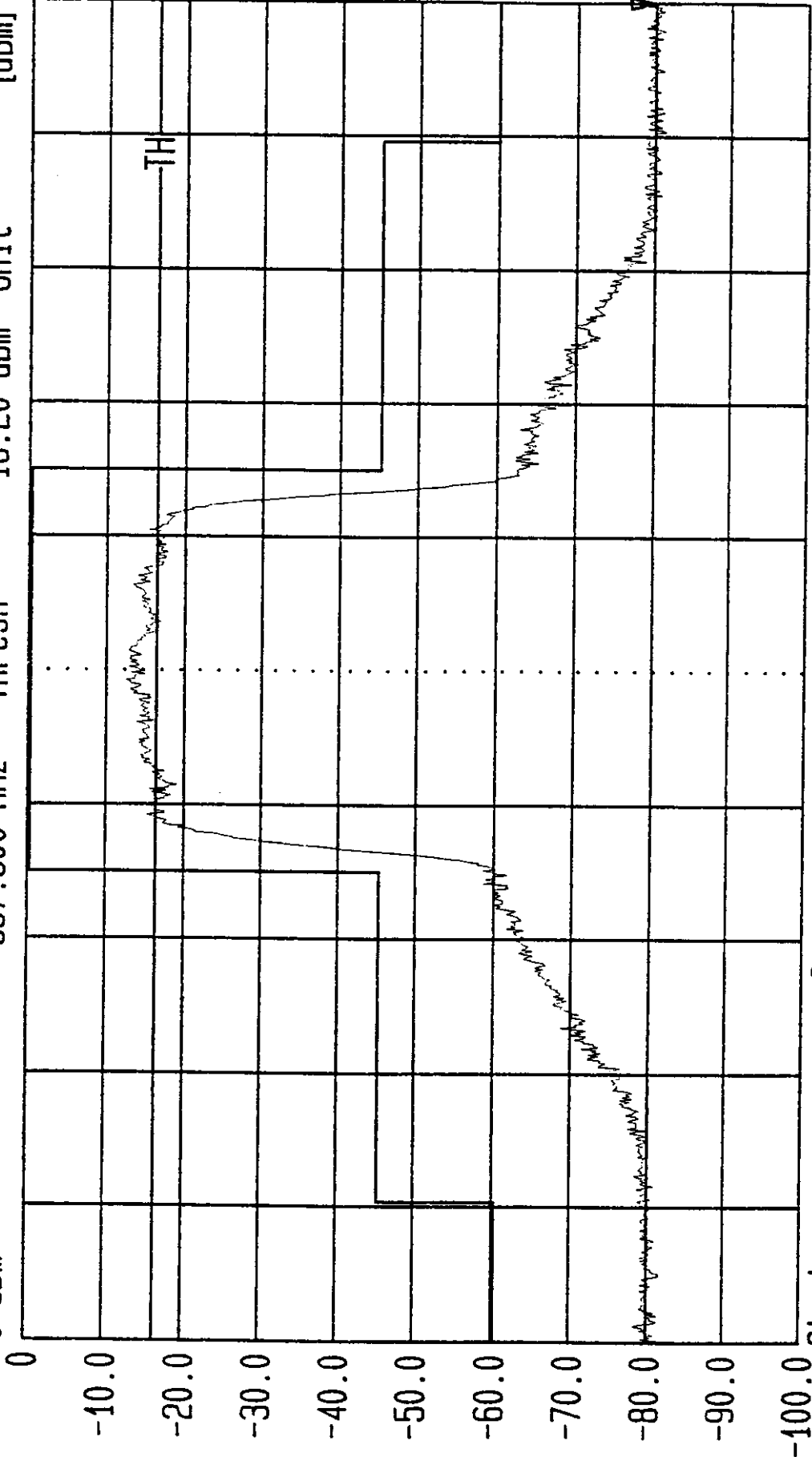
LVLOFF
 Date 29. May. '98 Time 09:20:25
 Ref. Lvl 45.70 dBm
 Marker 29.14 dBm
 881.653 MHz
 Res. Bw 30.0 kHz [3dB]
 TG. Lvl off
 CF. Stop 500.000 kHz
 Thresh 29.38 dBm
 Vid. Bw 30 kHz
 RF. Att 40 dB
 Unit [dBm]



Start 879.02 MHz
 Stop 884.02 MHz
 AS5CMP-25 FCC Occupied Bandwidth: B Band, Channel# 384, 48W at CAM/ 35W at J4
 CAM Output IS-97 Mask: -45 dBc at Fc +/- 750kHz / -60 dBc at Fc +/- 1.98 MHz
 Center 881.52 MHz
 Sweep 20 ms



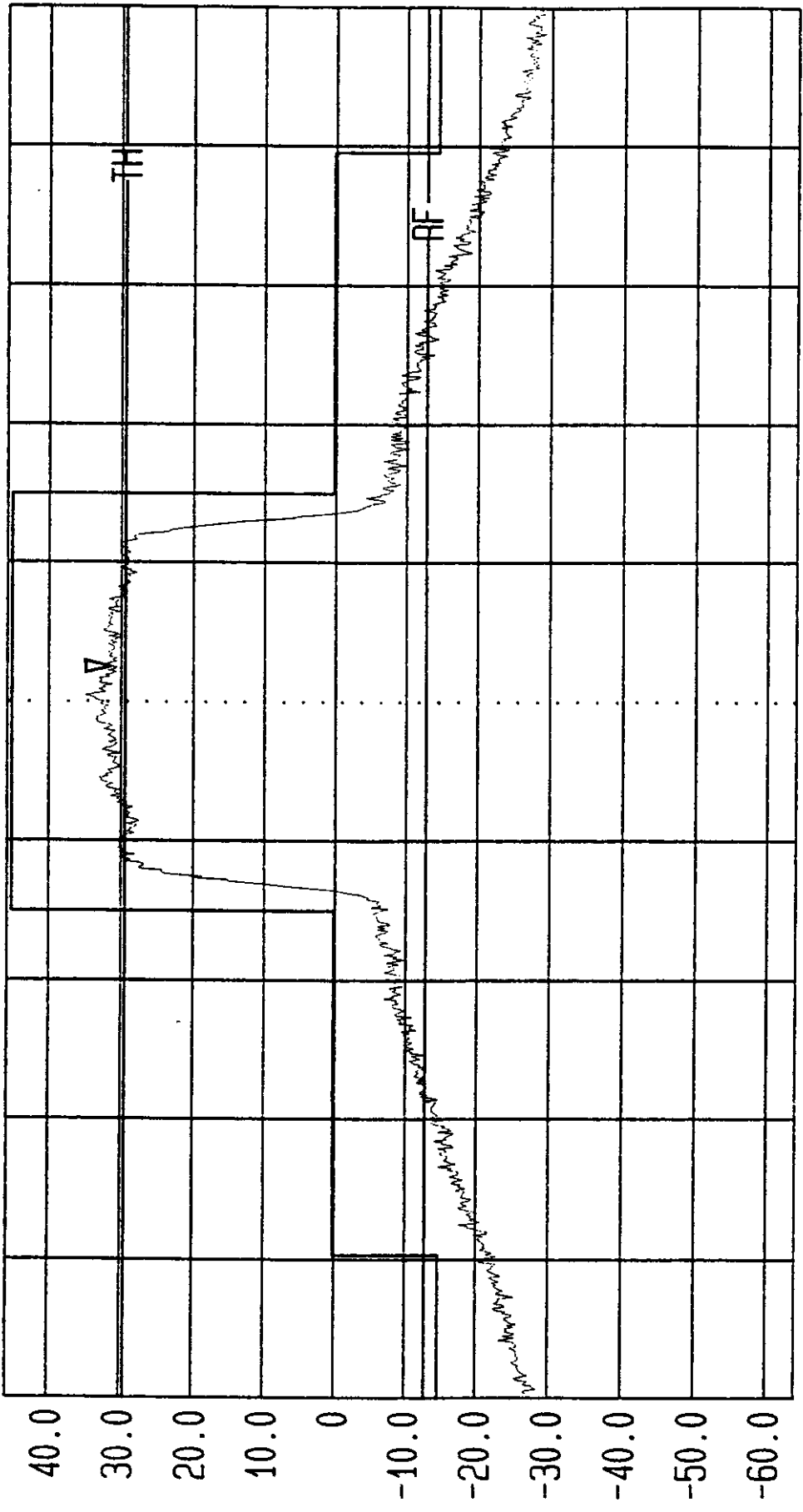
LVLOFF
 Date 02.Jun.'98 Time 23:12:31
 Ref.Lvl 0 dBm
 Marker -79.68 dBm
 887.500 MHz
 Res.Bw 30.0 kHz [3dB]
 TG.Lvl off
 CF.Stp 500.000 kHz
 Thresh -16.20 dBm
 Vid.Bw 30 kHz
 RF.Att 10 dB
 Unit [dBm]



Start 882.5 MHz
 Span 5 MHz
 Center 885 MHz
 Sweep 20 ms
 Stop 887.5 MHz
 AS5CMP-25 FCC Occupied Bandwidth: B Band Channel# 500:
 CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz
 INPUT to CAM



LVLOFF
 Date 02.Jun.'98 Time 18:58:52
 Ref.Lvl 45.70 dBm
 Marker 31.38 dBm
 885.127 MHz
 Res.Bw 30.0 kHz [3dB]
 TG.Lvl off
 CF.Stp 500.000 kHz
 Thresh 29.24 dBm
 Vid.Bw 30 kHz
 RF.Att 30 dB
 Unit [dBm]



Start 882.5 MHz
 Stop 887.5 MHz
 Span 5 MHz
 Sweep 20 ms
 Center 885 MHz
 AS5CMP-25 FCC Occupied Bandwidth: B Band Channel# 500: 35 W @ J4/ 48 W @ CAM
 CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz



Date 29.May.'98 Time 04:28:19

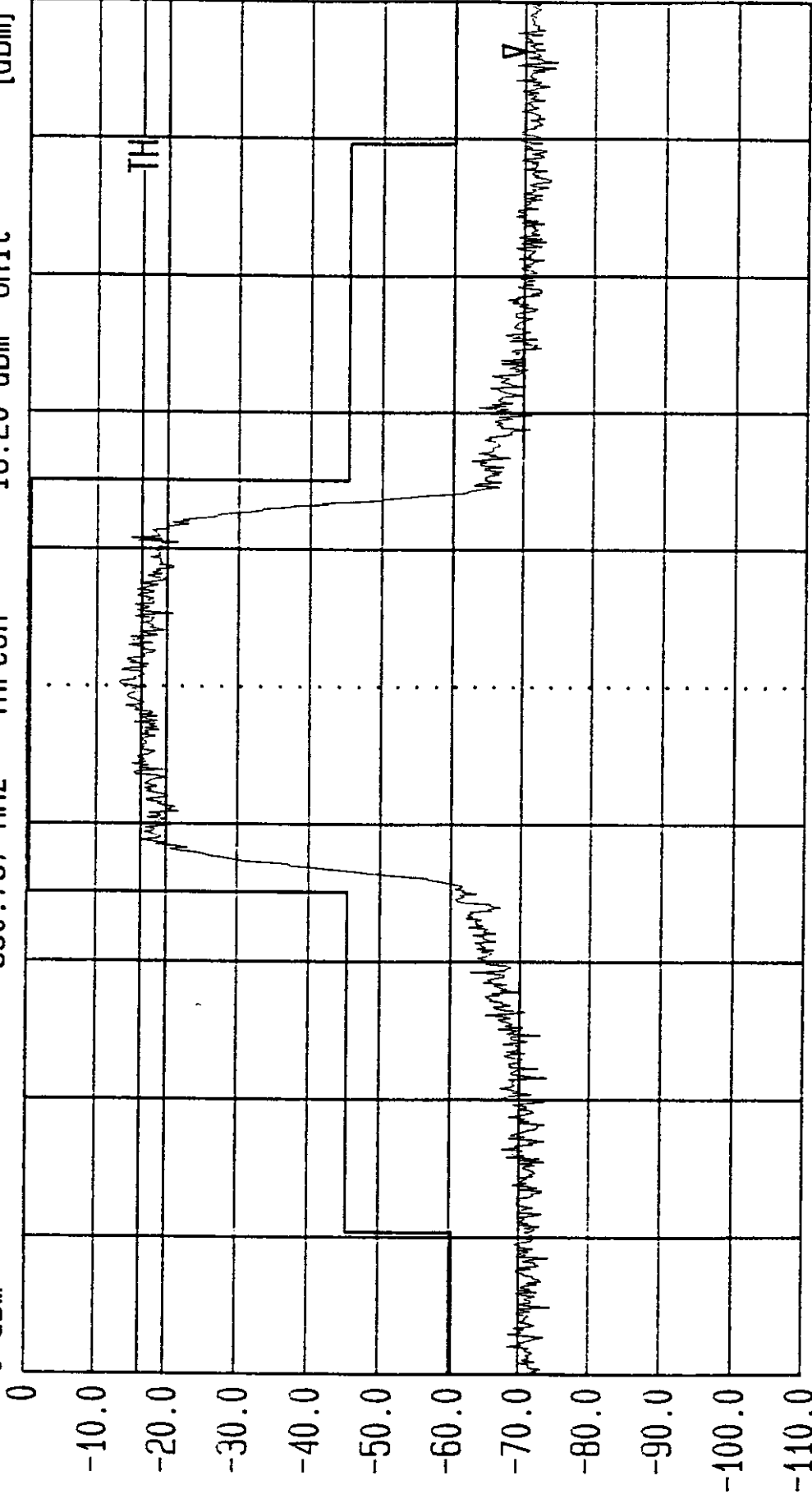
Ref.Lvl 0 dBm

Marker -69.91 dBm

890.797 MHz

Res.Bw 30.0 kHz [3dB]
TG.Lvl off
CF.Stp 500.000 kHz
Thresh -16.20 dBm

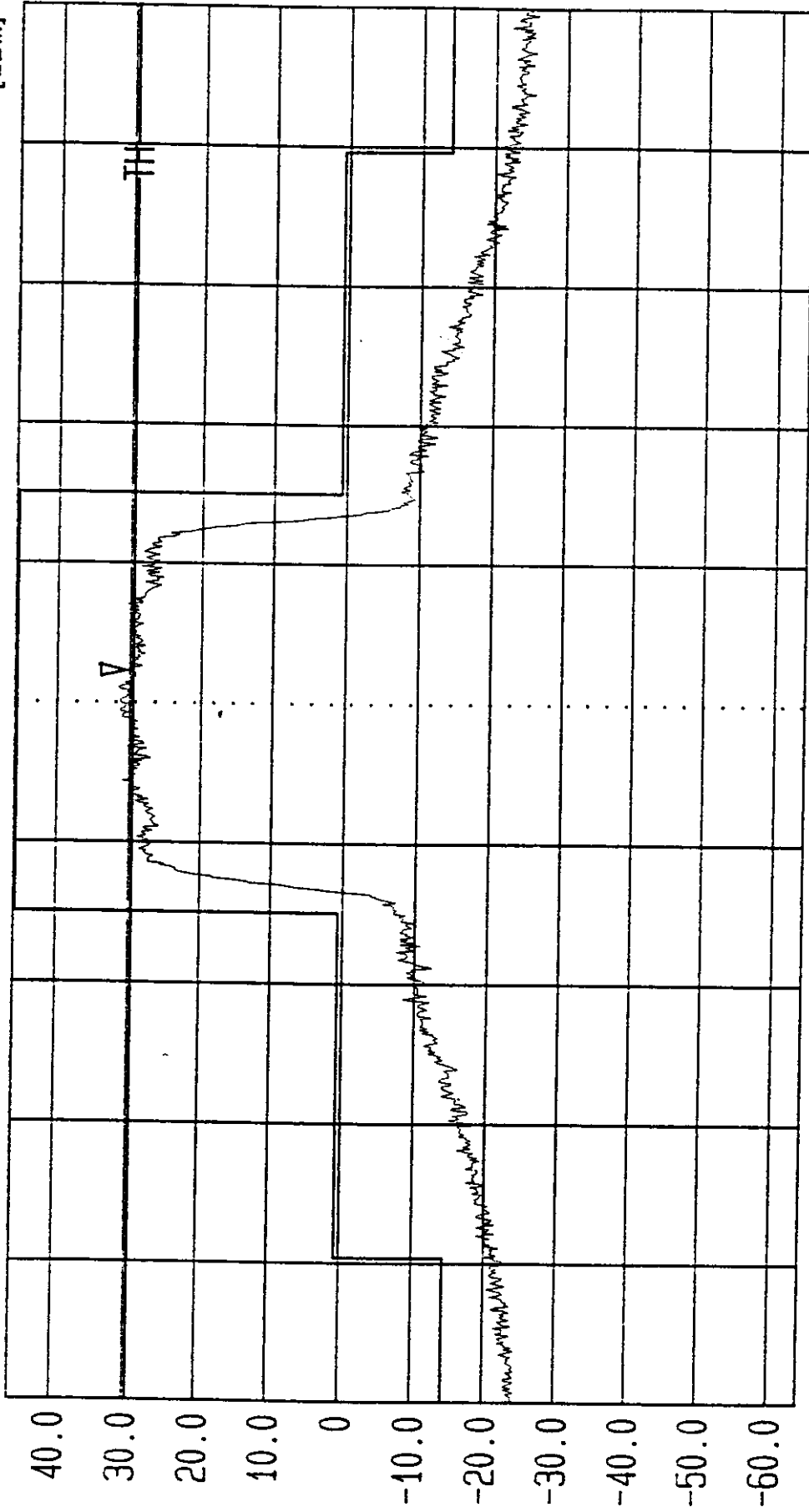
Vid.Bw 30 kHz
RF.Att 10 dB
Unit [dBm]



Start 885.98 MHz Center 888.48 MHz Sweep 20 ms Stop 890.98 MHz
AS55CMP-25 FCC Occupied Bandwidth; B Band, Channel# 616, INPUT to CAM
CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc +/- 1.98 MHz



LVLOFF
 Date 29.May.'98 Time 04:22:40
 Ref.Lvl 45.70 dBm
 Marker 30.43 dBm
 888.591 MHz
 Res.BW 30.0 kHz [3dB]
 TG.Lvl off
 CF.Stp 500.000 kHz
 Thresh 29.38 dBm
 Vid.Bw 30 kHz
 AF.Att 40 dB
 Unit [dBm]



Start 885.98 MHz
 AS5CMP-25 CAM FCC Occupied Bandwidth Channel 616 48 Watts @ CAM 35W @ J4
 IS-97 Mask: -45 dBc @ Fc +/- 750kHz -60 dBc @ Fc +/- 1.98 MHz
 Span 5 MHz
 Center 888.48 MHz
 Sweep 20 ms
 Stop 890.98 MHz

Exhibit 19**SECTION 2.983 (g)**

Photographs (8"x10") of the equipment of sufficient clarity to reveal equipment construction and layout, including meters, if any, and labels for controls and meters and sufficient views of the internal construction to define component placement and chassis assembly. Insofar as these requirements are met by photographs or drawings contained in the instruction manuals supplied with the type acceptance request, additional photographs are necessary only to complete the required showing.

RESPONSE:

The following photographs show the construction and layout of the CAM.



LVL OFF

Date 29. May. '98 Time 23:37:36

Ref. Lvl 0 dBm Marker -69.91 dBm

890.797 MHz

Res. Bw 30.0 kHz [3dB]

TG. Lvl off

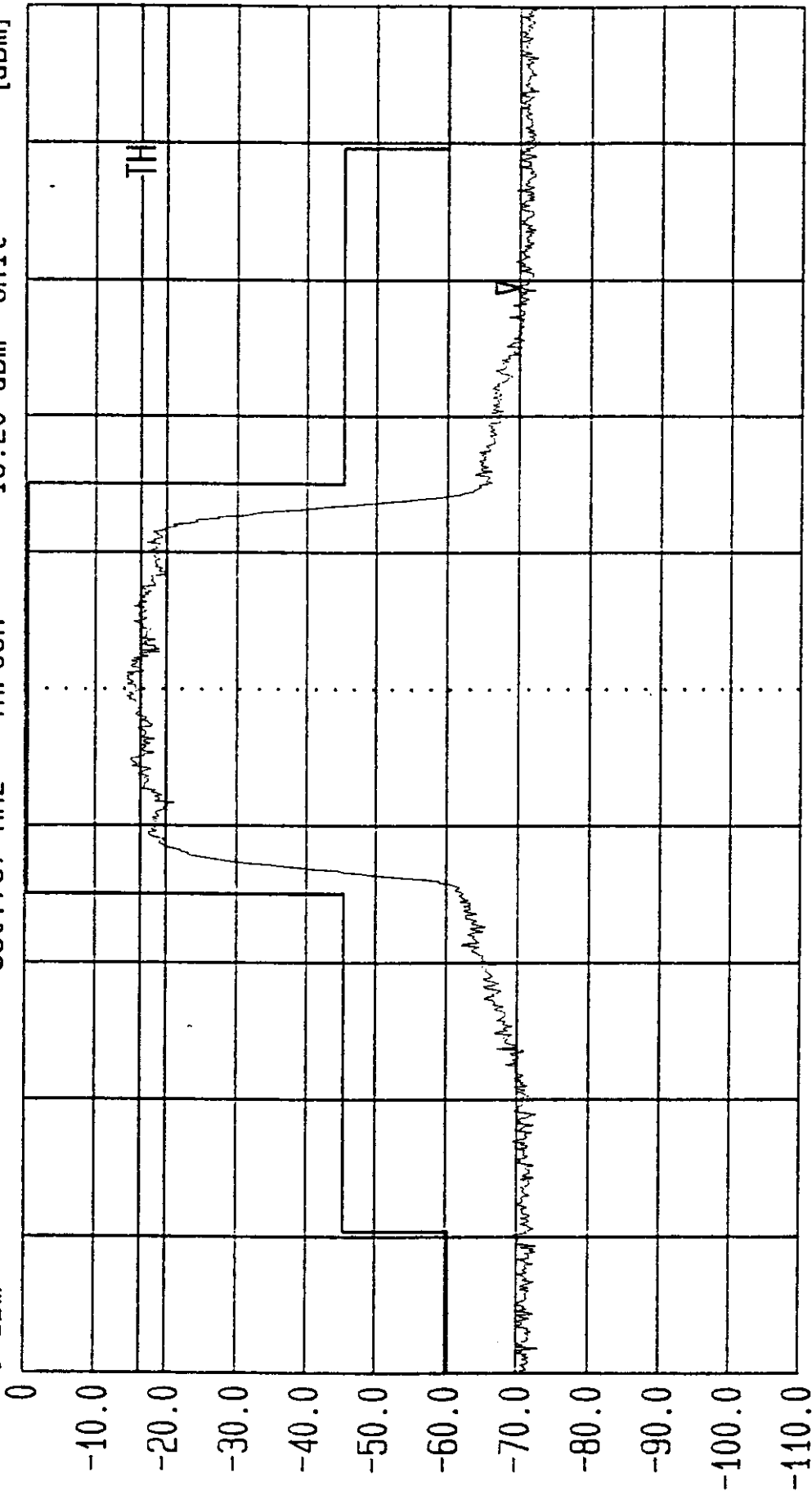
CF. Stp 500.000 kHz

Thresh -16.20 dBm

Vid. Bw 30 kHz

RF. Att 10 dB

Unit [dBm]



Start 886.82 MHz

Span 5 MHz

Center 889.32 MHz

Sweep 20 ms

Stop 891.82 MHz

AS5CMP-25 CAM FCC Occupied Bandwidth; B Band, Channel# 644, INPUT to CAM
IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc +/- 1.98 MHz

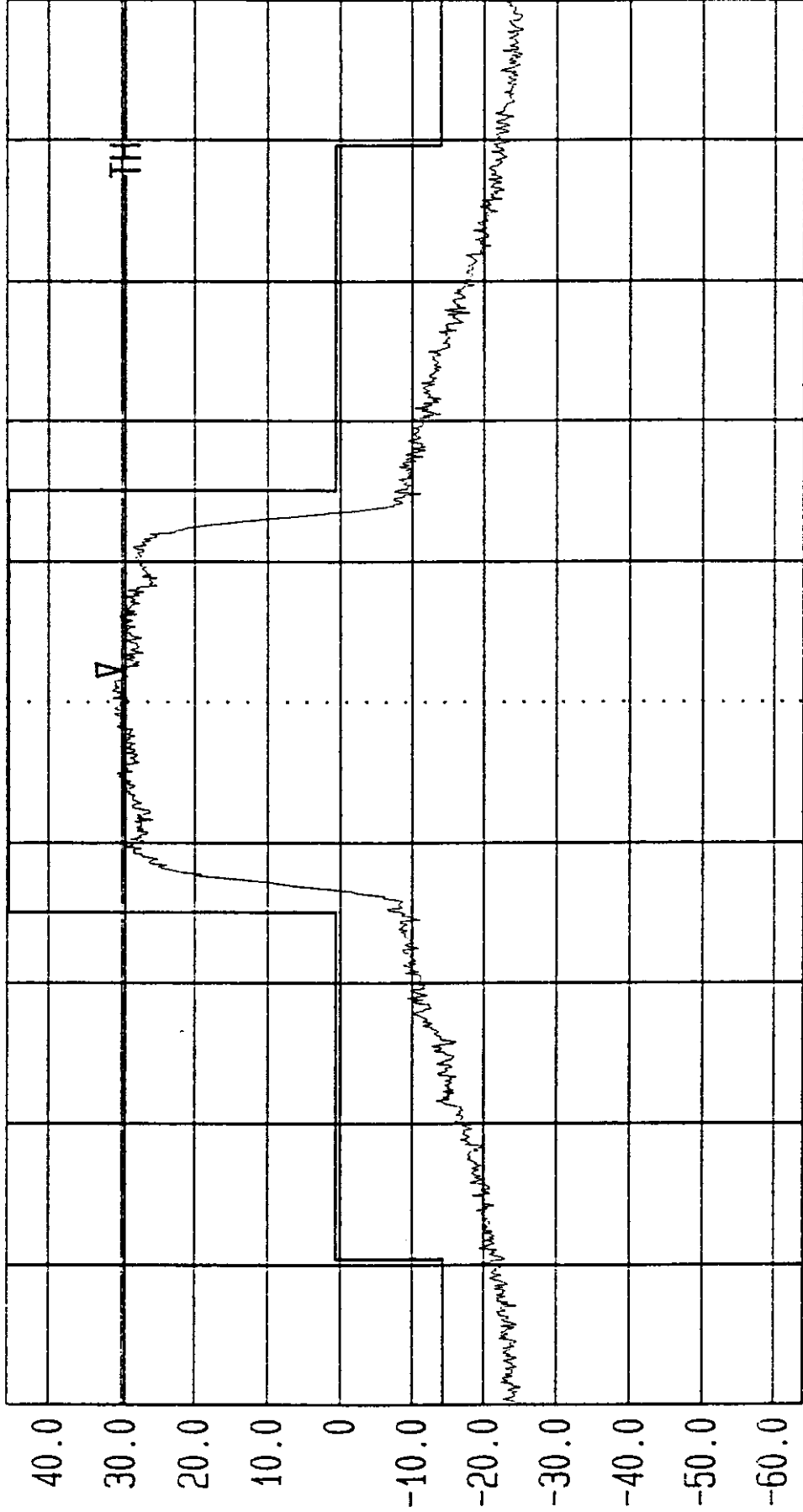


LVLOFF

Date 29.May.'98 Time 04:39:17
Ref.Lvl 45.70 dBm Marker 889.431 MHz

Res.Bw 30.0 kHz [3dB]
TG.Lvl off
CF.Stp 500.000 kHz
Thresh 29.38 dBm

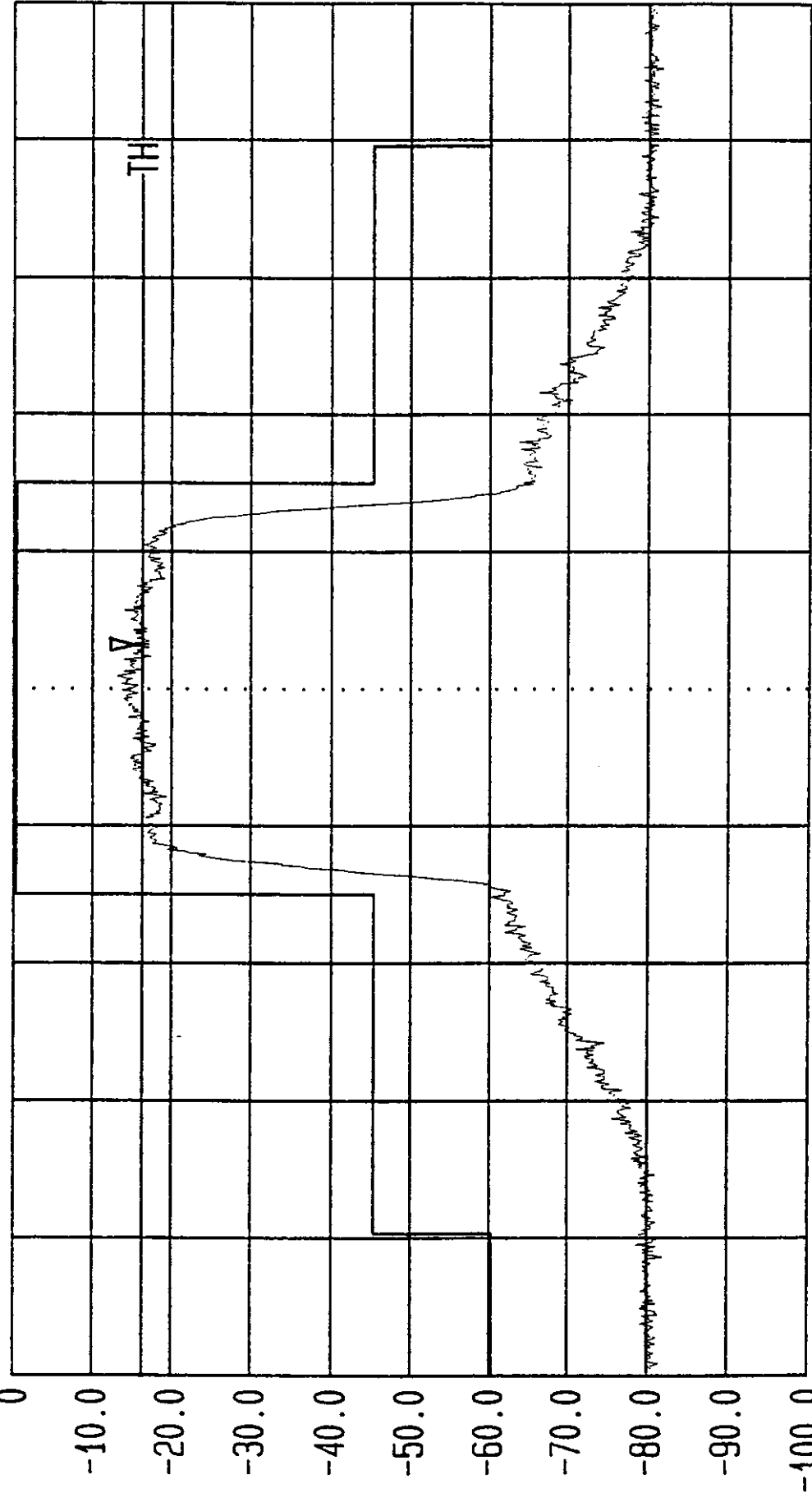
Vid.Bw 30 kHz
RF.Att 40 dB
Unit [dBm]



Start 886.82 MHz Stop 891.82 MHz
 Span 5 MHz Sweep 20 ms
 Center 889.32 MHz
 AS5CMP-25 FCC Occupied Bandwidth: B Band, Channel 644 48 W at CAM / 35 W at J4
 CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz / -60 dBc at Fc +/- 1.98 MHz



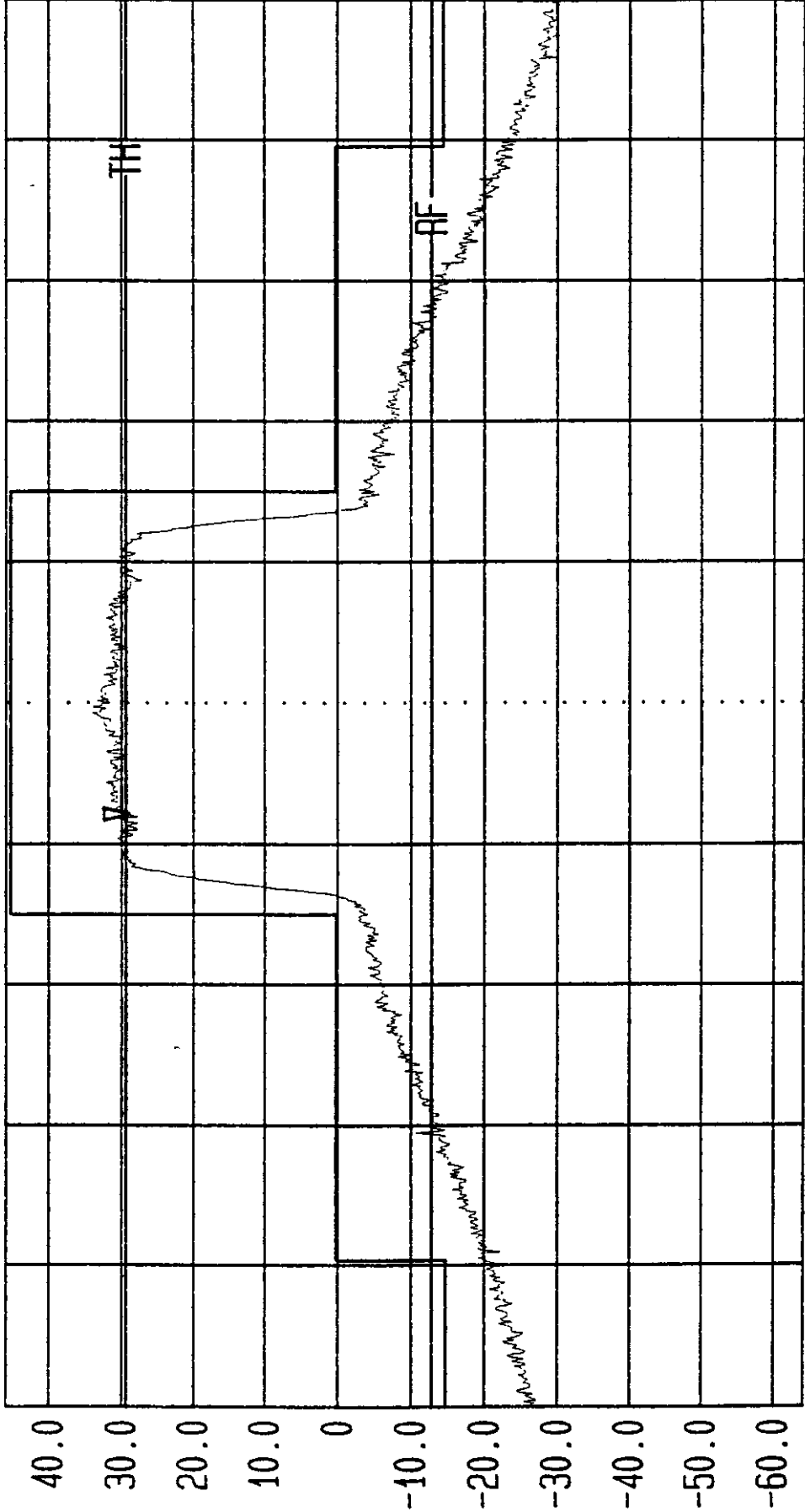
LVLOFF
 Date 02.Jun.'98 Time 23:23:09
 Ref.Lvl 0 dBm
 Marker -15.15 dBm
 890.566 MHz
 Res.Bw 30.0 kHz [3dB]
 TG.Lvl off
 CF.Stp 500.000 kHz
 Thresh -16.20 dBm
 Vid.Bw 30 kHz
 RF.Att 10 dB
 Unit [dBm]



Start 887.9 MHz
 Span 5 MHz
 Center 890.4 MHz
 Sweep 20 ms
 Stop 892.9 MHz
 AS5CMP-25 FCC Occupied Bandwidth: A'Band Channel# 680:
 CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz
 INPUT to CAM



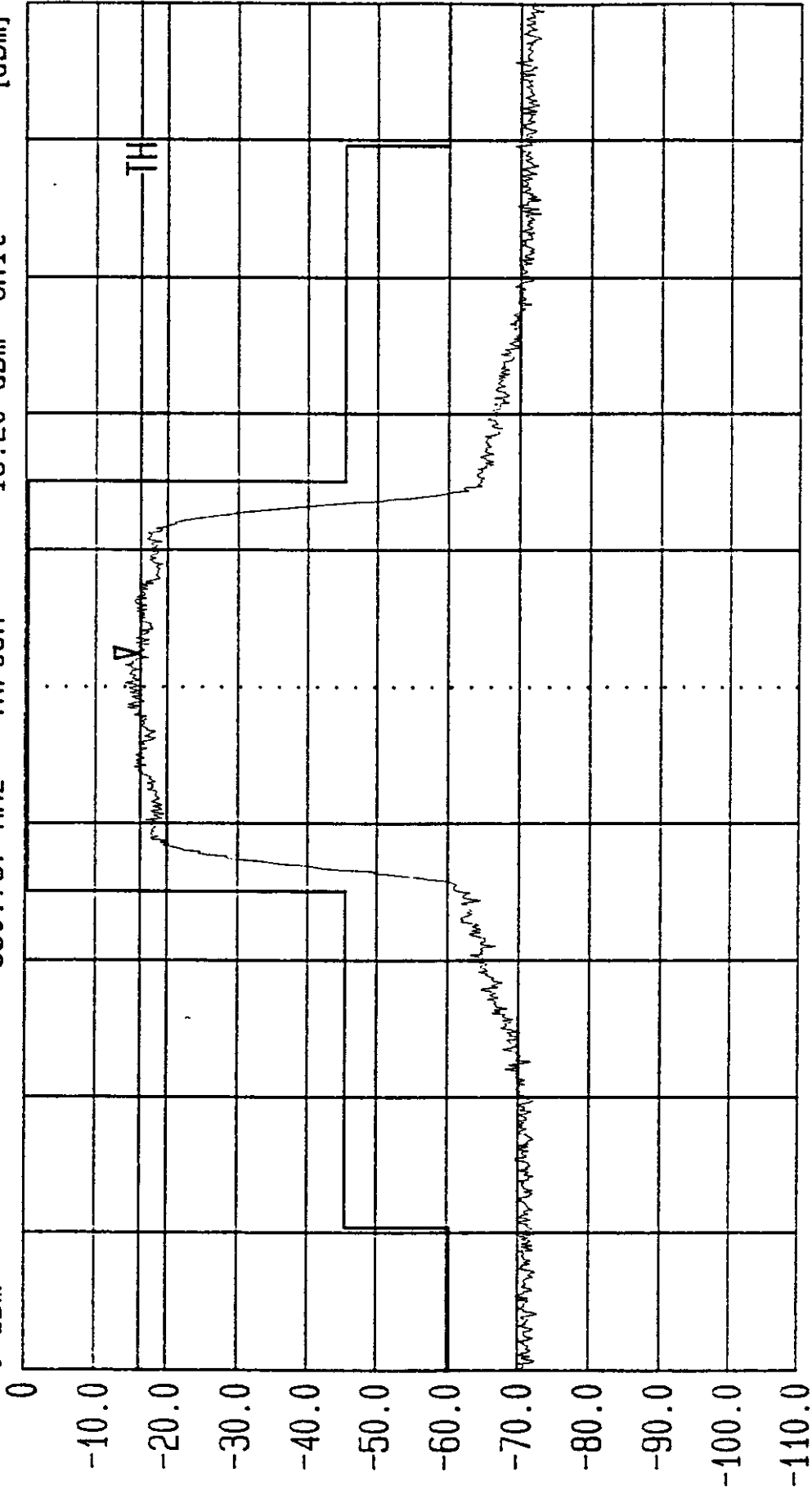
LVLOFF
 Date 02.Jun.'98 Time 21:53:16
 Ref.Lvl 45.70 dBm
 Marker 890.010 MHz
 Res.Bw 30.0 kHz [3dB]
 TG.Lvl off
 CF.Stp 500.000 kHz
 Thresh 29.24 dBm
 Vid.Bw 30 kHz
 RF.Att 30 dB
 Unit [dBm]



Start 887.9 MHz
 Span 5 MHz
 Center 890.4 MHz
 Sweep 20 ms
 Stop 892.9 MHz
 AS5CMP-25 FCC Occupied Bandwidth: A'Band Channel# 680: 35 W @ J4/ 50.7W @ CAM
 CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz



LVLOFF
Date 30.May.'98 Time 00:10:01
Ref.Lvl 0 dBm Marker -15.89 dBm
890.797 MHz
Res.Bw 30.0 kHz [3dB] TG.Lvl off
Vid.Bw 30 kHz
CF.Stp 500.000 kHz AF.Att 10 dB
Thresh -16.20 dBm Unit [dBm]



Start 888.17 MHz Span 5 MHz Center 890.67 MHz Sweep 20 ms Stop 893.17 MHz
AS5CMP-25 FCC Occupied Bandwidth: A' Band, Channel# 689, INPUT to CAM
CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/-60 dBc at Fc +/- 1.98 MHz



LVL0FF

Date 30.May.'98 Time 00:17:52

Ref.Lvl 45.70 dBm

Marker 30.57 dBm

890.797 MHz

Res.Bw 30.0 kHz [3dB]

TG.Lvl off

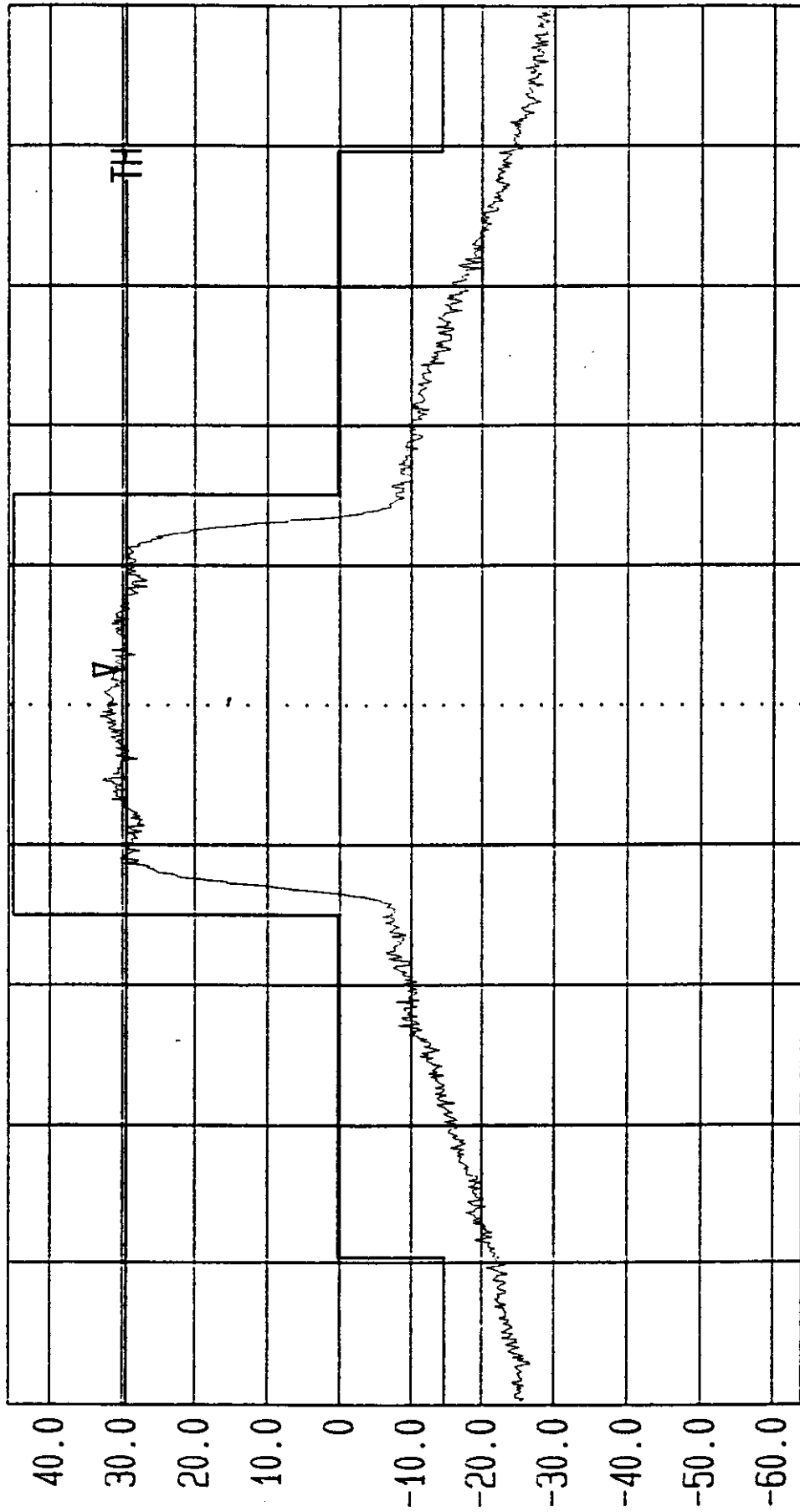
CF.Stp 500.000 kHz

Thresh 29.24 dBm

Vid.Bw 30 kHz

AF.Att 35 dB

Unit [dBm]



Start 888.17 MHz

Span 5 MHz

Center 890.67 MHz

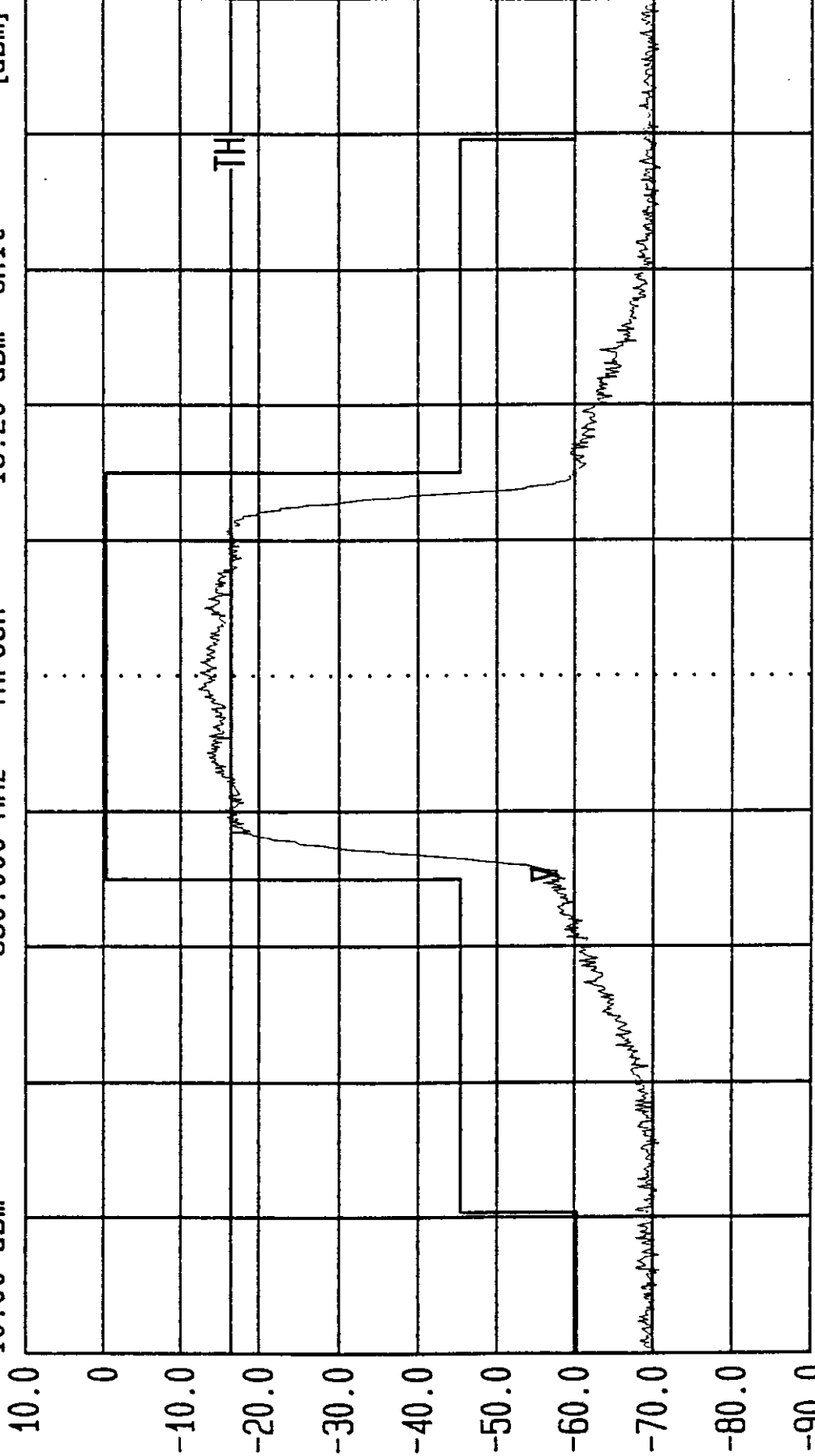
Sweep 20 ms

Stop 893.17 MHz

AS5CMP-25 FCC Occupied Bandwidth; A' Band, Channel# 689, 48W at CAM/ 35W at J4
CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc +/- 1.98 MHz



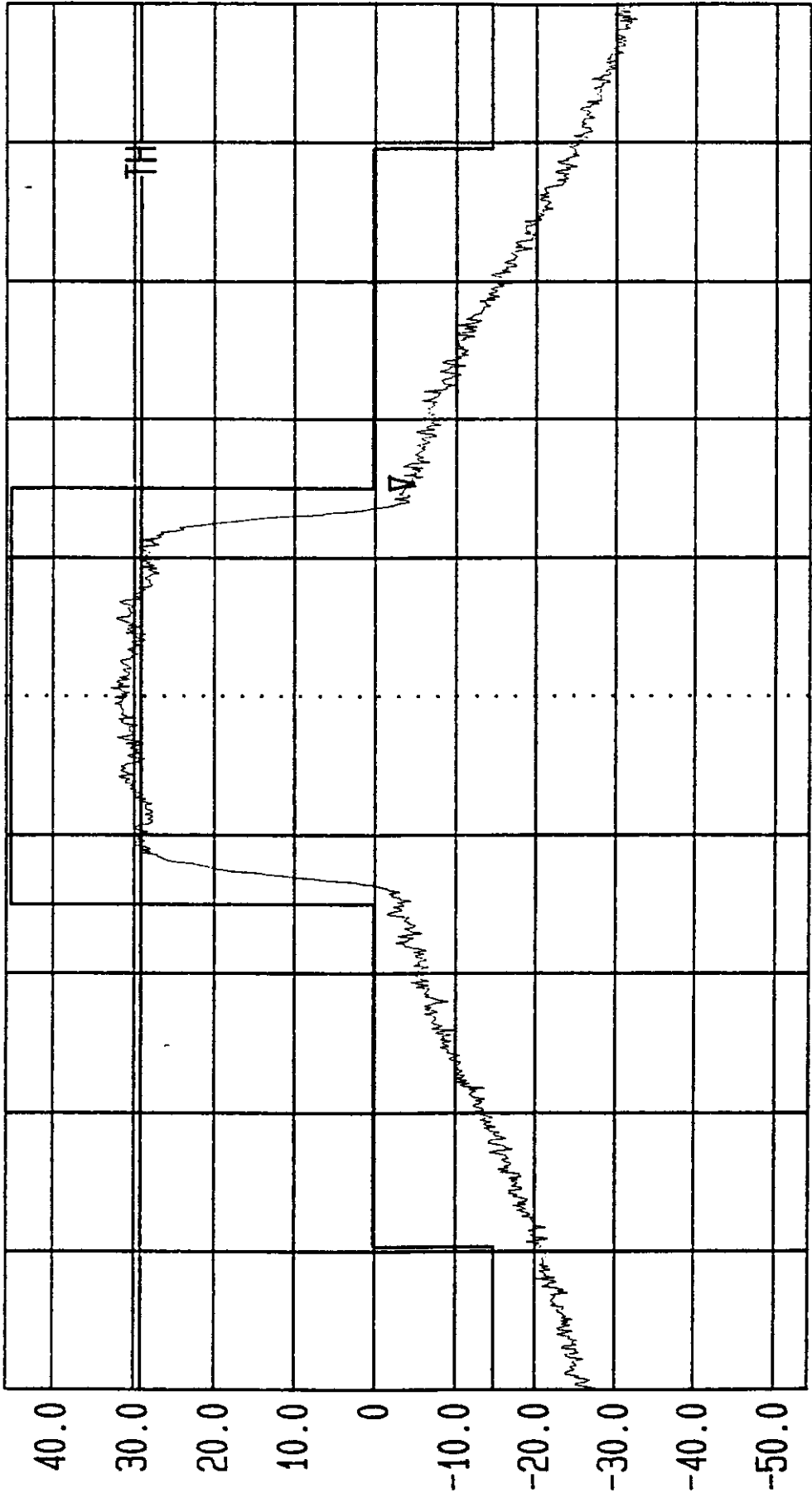
LVLOFF
 Date 03.Jun.'98 Time 12:38:31
 Ref.Lvl 10.00 dBm
 Marker -57.24 dBm
 890.000 MHz
 Res.Bw 30.0 kHz [3dB]
 TG.Lvl -20.00 dBm
 CF.Stp 500.000 kHz
 Thresh -16.20 dBm
 Vid.Bw 30 kHz
 AF.Att 30 dB
 Unit [dBm]



Start 888.23 MHz
 Span 5 MHz
 Center 890.73 MHz
 Sweep 20 ms
 Stop 893.23 MHz
 AS5CMP-25 FCC Occupied Bandwidth A'Band Channel# 691
 CAM IS-97 Mask: -45 dBc at Fc +/- 750 kHz / -60 dBc at Fc +/- 1.98 MHz
 INPUT to CAM



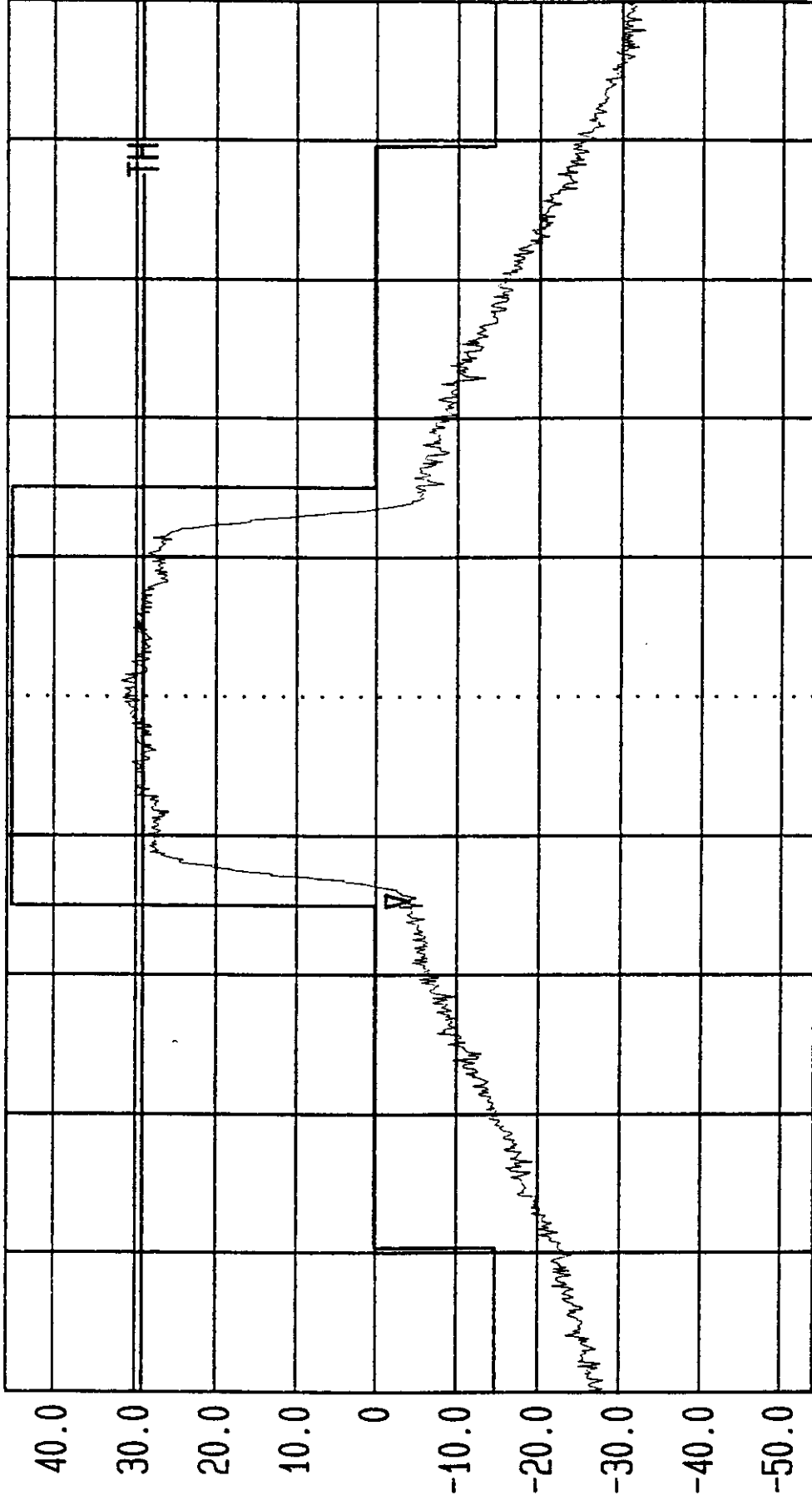
LVLOFF
 Date 03.Jun.'98 Time 12:52:30
 Ref.Lvl 45.70 dBm
 Marker -4.78 dBm
 891.500 MHz
 Res.Bw 30.0 KHz [3dB]
 TG.Lvl -20.00 dBm
 CF.Stp 500.000 KHz
 Thresh 29.24 dBm
 Vid.Bw 30 KHz
 RF.Att 30 dB
 Unit [dBm]



Start 888.23 MHz
 Stop 893.23 MHz
 Span 5 MHz
 Center 890.73 MHz
 Sweep 20 ms
 AS5CMP-25 FCC Occupied Bandwidth A'Band Channel# 691 35W @ J4/ 48W @ CAM
 CAM IS-97 Mask: -45 dBc at Fc +/- 750 KHz/ -60 dBc at Fc +/- 1.98 MHz



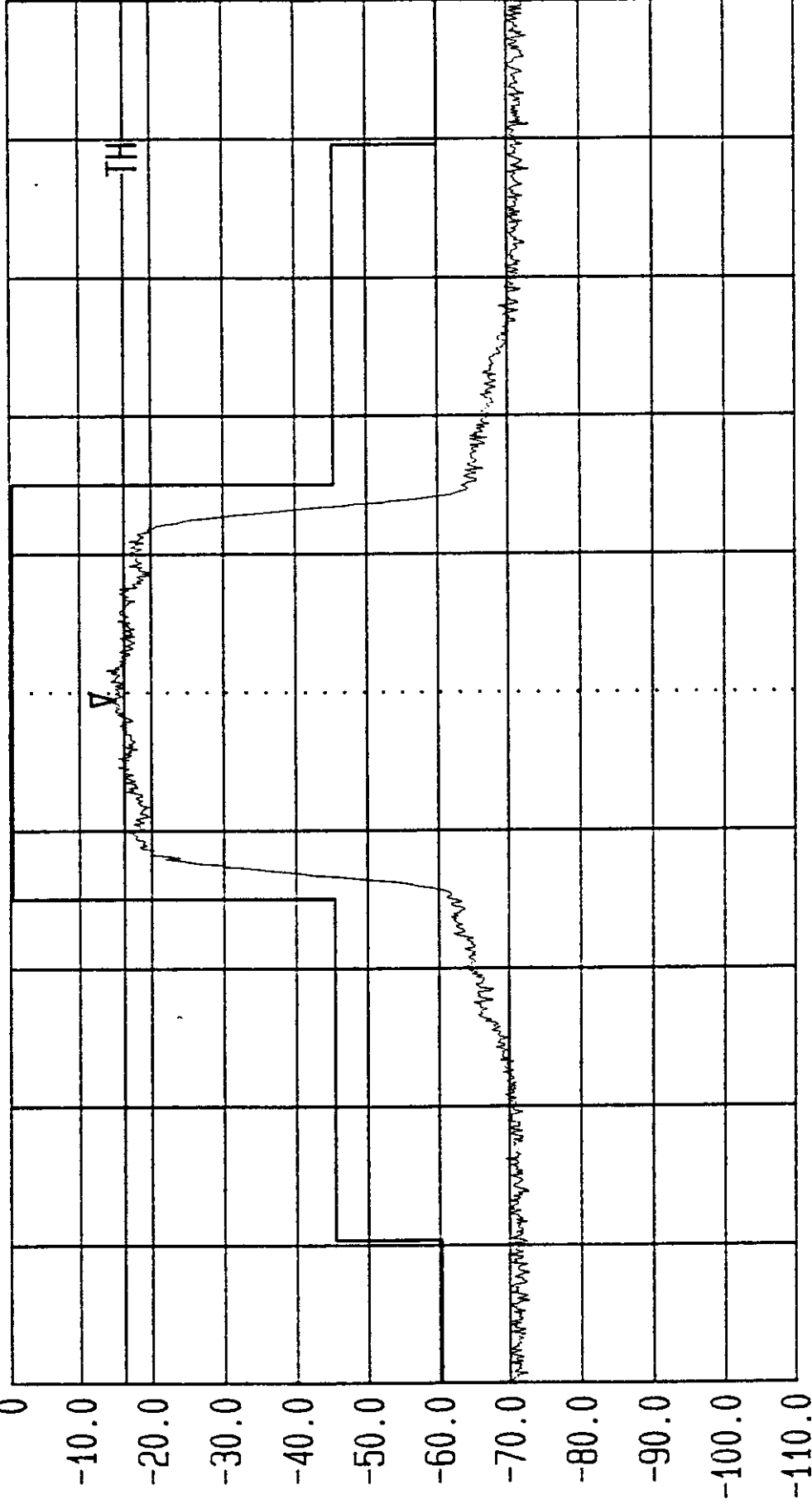
LVLOFF
 Date 03.Jun.'98 Time 12:45:11
 Ref.Lvl 45.70 dBm Marker 890.002 MHz
 Res.Bw 30.0 kHz [3dB] Vid.Bw 30 kHz
 TG.Lvl -20.00 dBm
 CF.Stp 500.000 kHz AF.Att 30 dB
 Thresh 29.24 dBm Unit [dBm]



Start 888.23 MHz Center 890.73 MHz Stop 893.23 MHz
 Span 5 MHz Sweep 20 ms
 AS5GMP-25 FCC Occupied Bandwidth A'Band Channel# 691 35W @ J4/ 48W @ CAM
 CAM IS-97 Mask: -45 dBc at Fc +/- 750 kHz/ -60 dBc at Fc +/- 1.98 MHz



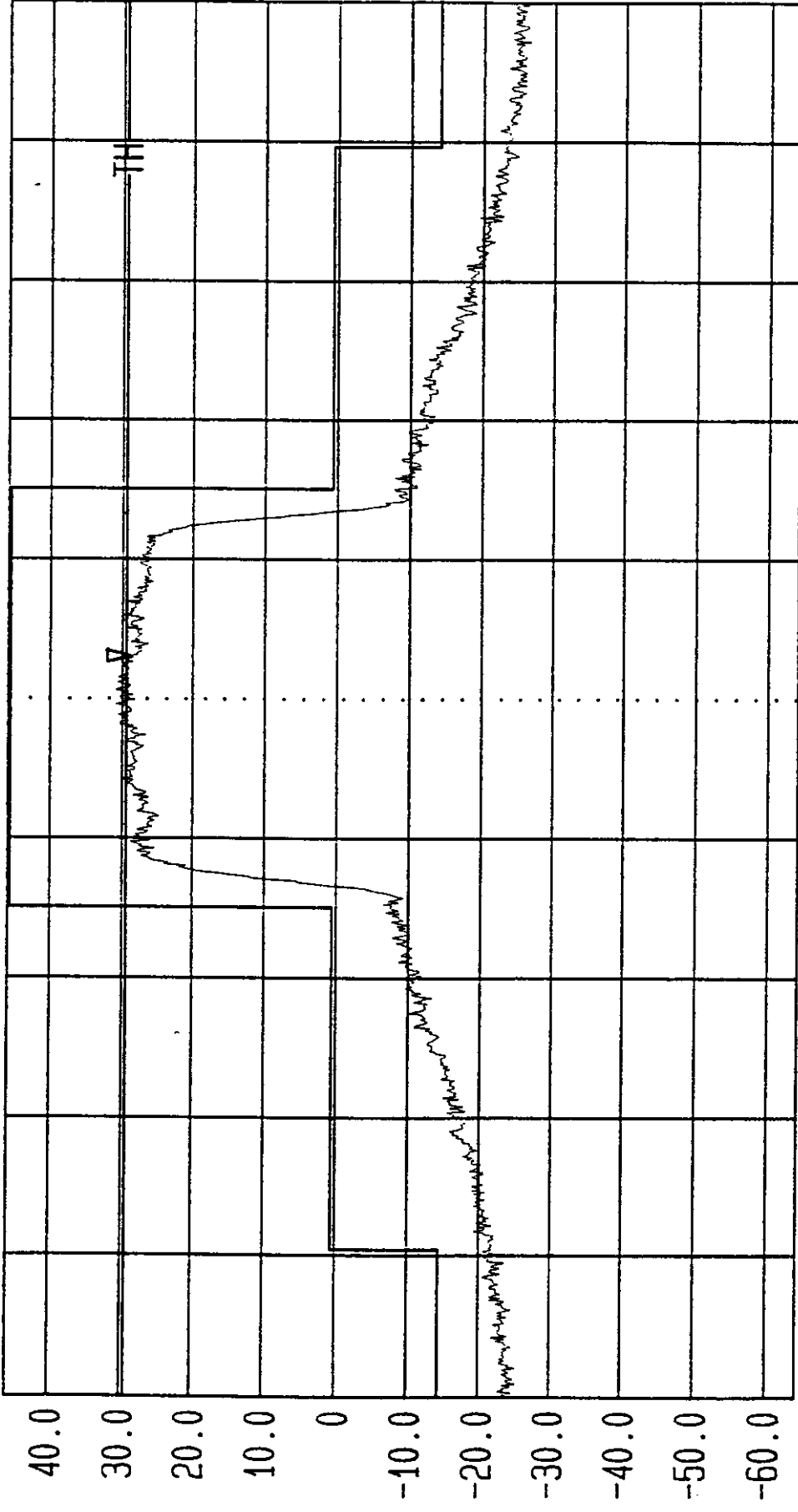
LVLOFF
 Date 29.May.'98 Time 10:18:13
 Ref.Lvl 0 dBm
 Marker -14.94 dBm
 890.797 MHz
 Res.Bw 30.0 KHz [3dB]
 TG.Lvl off
 CF.Stp 500.000 KHz
 Thresh -16.20 dBm
 Vid.Bw 30 KHz
 RF.Att 10 dB
 Unit [dBm]



Start 888.32 MHz
 Stop 893.32 MHz
 Center 890.82 MHz
 Sweep 20 ms
 Span 5 MHz
 AS5CMP-25 FCC Occupied Bandwidth; A"Band, Channel# 694, INPUT to CAM
 CAM IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc +/- 1.98 MHz



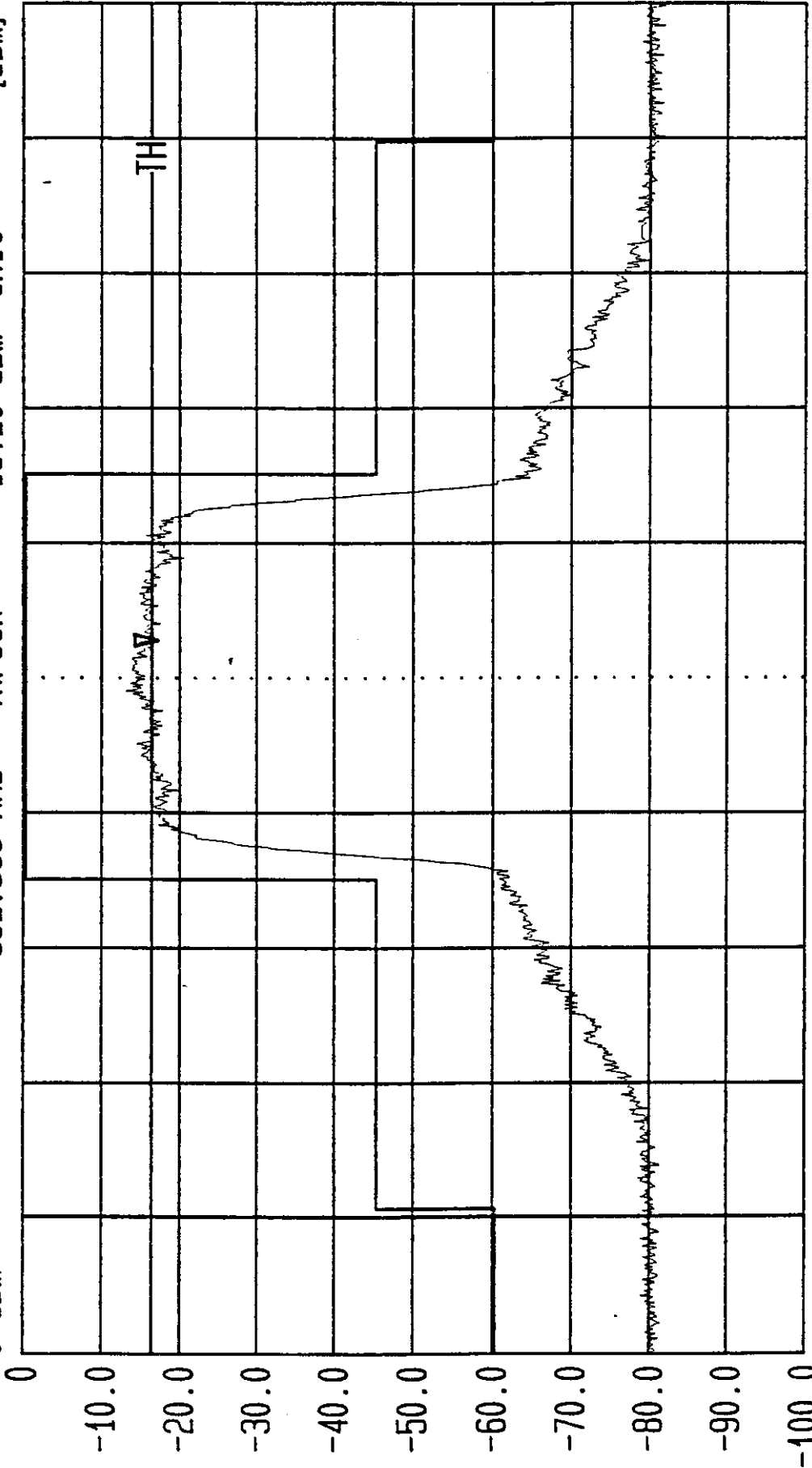
LVLOFF
 Date 29.May.'98 Time 05:01:26
 Ref.Lvl 45.70 dBm
 Marker 890.970 MHz
 Res.Bw 30.0 kHz [3dB]
 TG.Lvl off
 CF.Stp 500.000 kHz
 Thresh 29.38 dBm
 Vid.Bw 30 kHz
 RF.Att 40 dB
 Unit [dBm]



Start 888.32 MHz
 Stop 893.32 MHz
 Center 890.82 MHz
 Span 5 MHz
 Sweep 20 ms
 AS5CMP-25 FCC Occupied Bandwidth; A' Band, Channel 694 48 W at CAM/ 35 W at J4
 IS-97 Mask: -45 dBc at Fc +/- 750kHz/ -60 dBc at Fc +/- 1.98 MHz



LVLOFF
Date 02.Jun.'98 Time 22:35:10
Ref.Lvl 0 dBm Marker -17.06 dBm
Res.Bw 30.0 kHz [3dB] TG.Lvl off
Vid.Bw 30 kHz
CF.Stp 500.000 kHz RF.Att 10 dB
Thresh -16.20 dBm Unit [dBm]



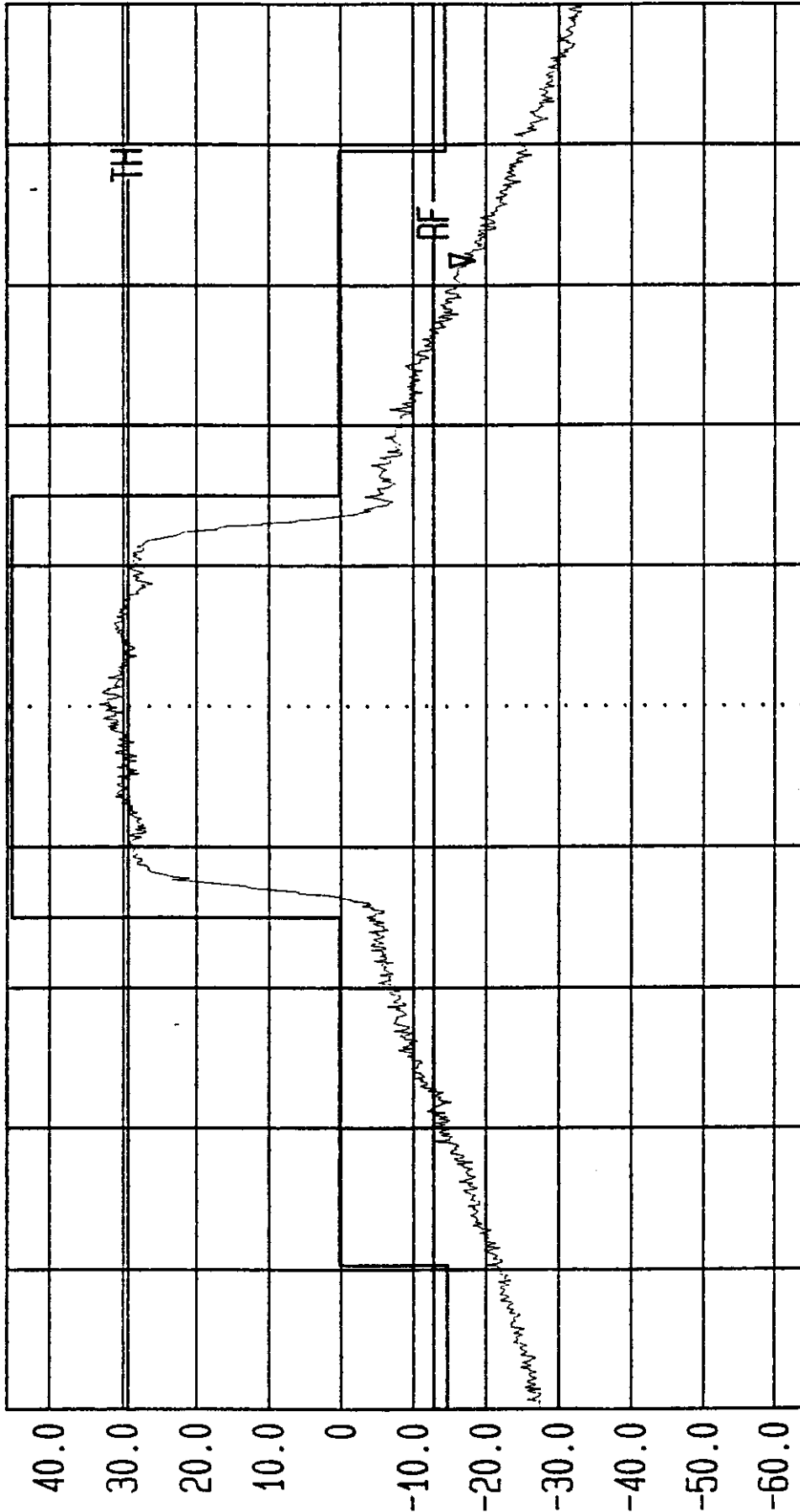
Start 889.9 MHz Stop 894.9 MHz
Span 5 MHz Center 892.4 MHz Sweep 20 ms
AS5CMP-25 FCC Occupied Bandwidth: B'Band Channel# 747: INPUT to CAM
IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz



LVLOFF
 Date 02.Jun.'98 Time 21:16:21
 Ref.Lvl 45.70 dBm
 Marker -18.60 dBm
 894.000 MHz

Res.Bw 30.0 kHz [3dB]
 TG.Lvl off
 CF.Stp 500.000 kHz
 Thresh 29.24 dBm

Vid.Bw 30 kHz
 RF.Att 30 dB
 Unit [dBm]



Start 889.91 MHz
 AS5CMP-25 FCC Occupied Bandwidth: B'Band Channel# 747: 35 W @ J4/ 49.7W @ CAM
 CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz
 Span 5 MHz
 Center 892.41 MHz
 Sweep 20 ms
 Stop 894.91 MHz



LVL OFF

Date 02 Jun '98 Time 19:02:16

Ref. Lvl 45.70 dBm

Marker -16.61 dBm

894.000 MHz

Res. BW 30.0 kHz [3dB]

TG. Lvl off

500.000 kHz

29.24 dBm

Vid. BW 30 kHz

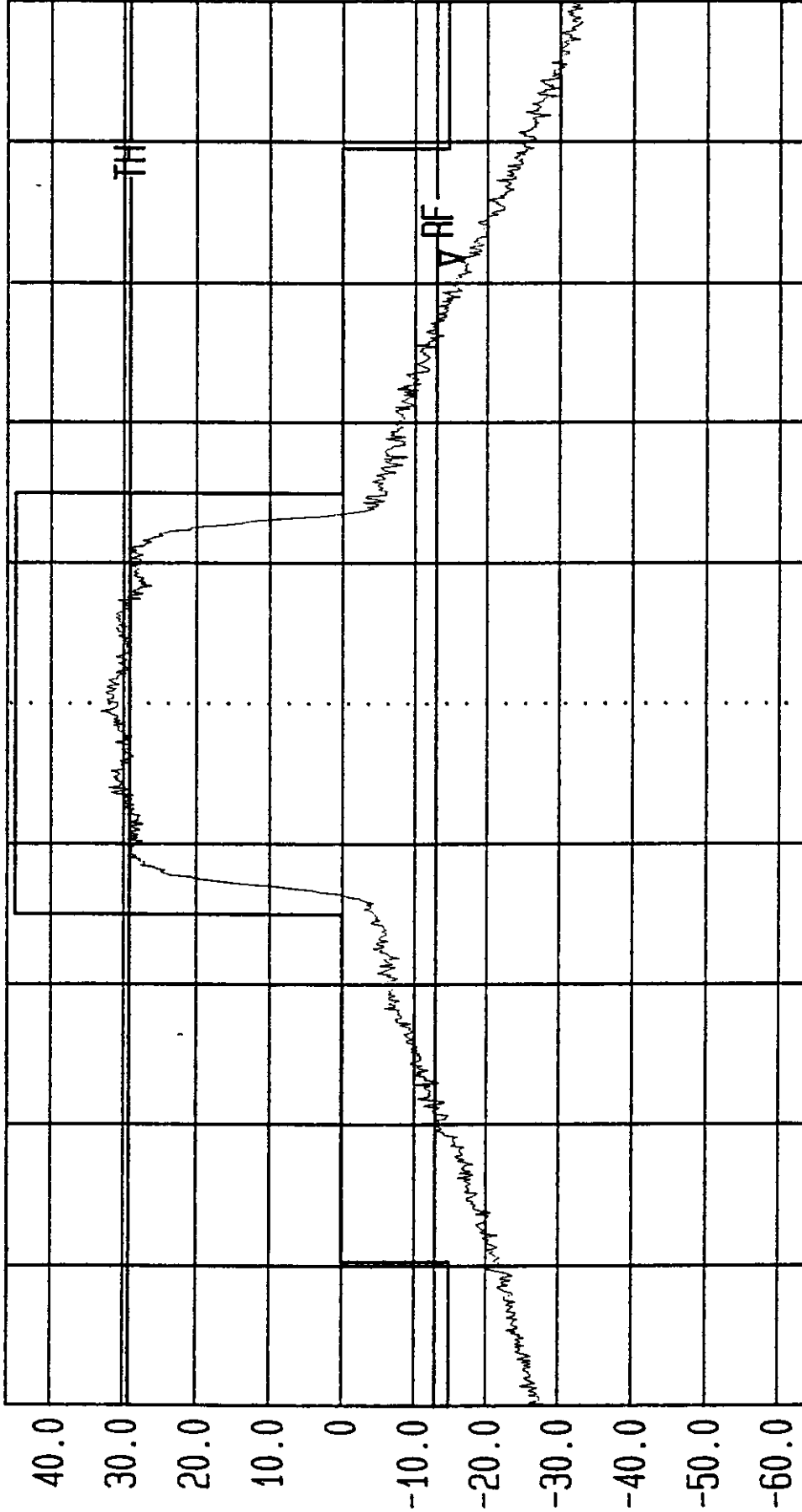
RF Att

Unit

30 kHz

30 dB

[dBm]



Start 889.91 MHz

Span 5 MHz

Center 892.41 MHz

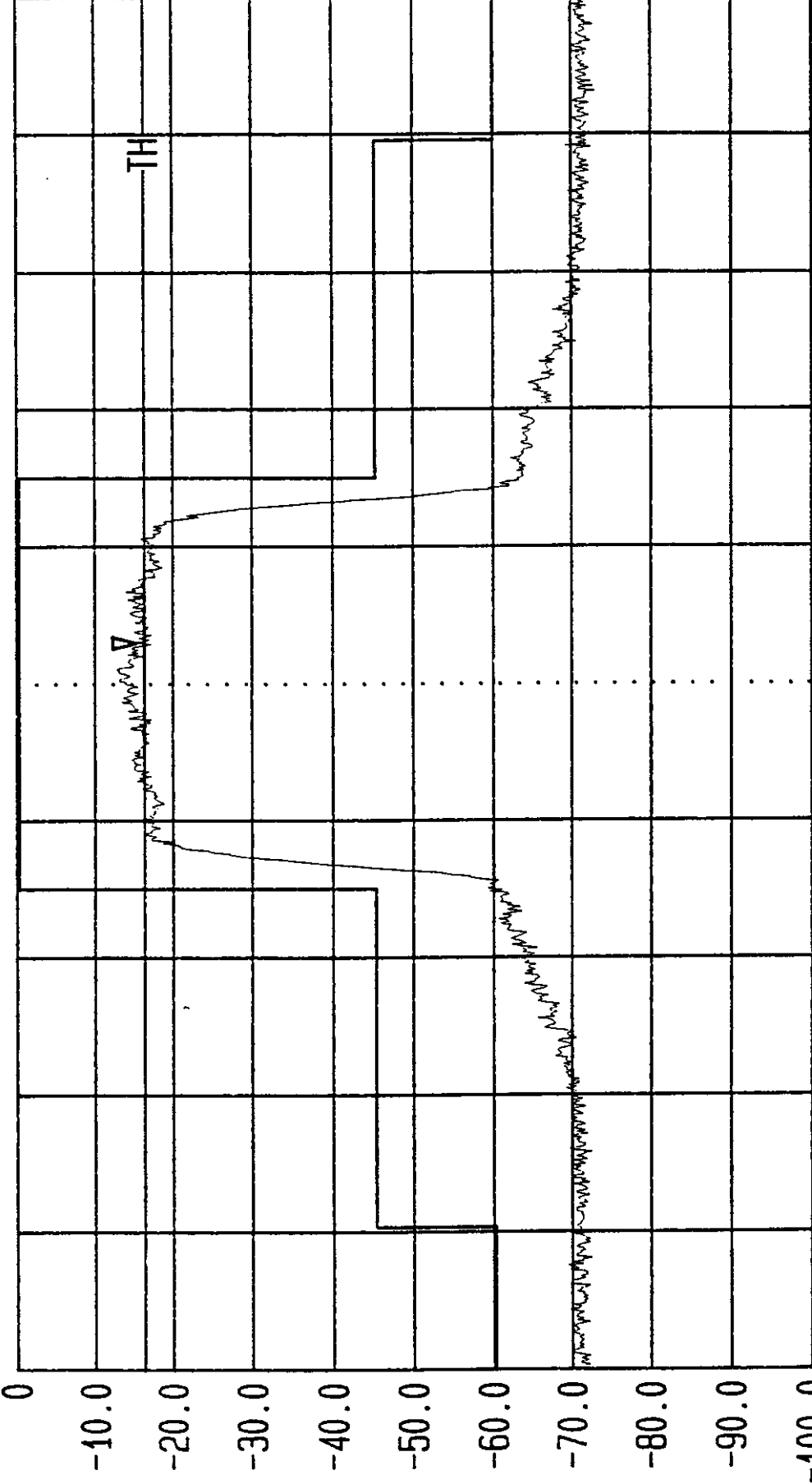
Sweep 20 ms

Stop 894.91 MHz

AS5CMP-25 FCC Occupied Bandwidth: B'Band Channel# 747: 35 W @ J4/ 48 W @ CAM
CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz



LVLOFF
Date 03.Jun.'98 Time 00:31:22
Ref.Lvl 0 dBm
Marker -15.26 dBm
892.890 MHz
Res.Bw 30.0 kHz [3dB]
TG.Lvl Off
CF.Stp 500.000 kHz
Thresh -16.20 dBm
Vid.Bw 30 kHz
RF.Att 30 dB
Unit [dBm]



Start 890.24 MHz
Center 892.74 MHz
Stop 895.24 MHz
Span 5 MHz
Sweep 20 ms
AS5CMP-25 FCC Occupied Bandwidth: B'Band Channel# 758: INPUT to CAM
IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz



LVLOFF

Date 02 Jun. '98 Time 15:11:02

Ref.Lvl 44.00 dBm

Marker -13.01 dBm

891.495 MHz

Res.Bw 30.0 kHz [3dB]

TG.Lvl off

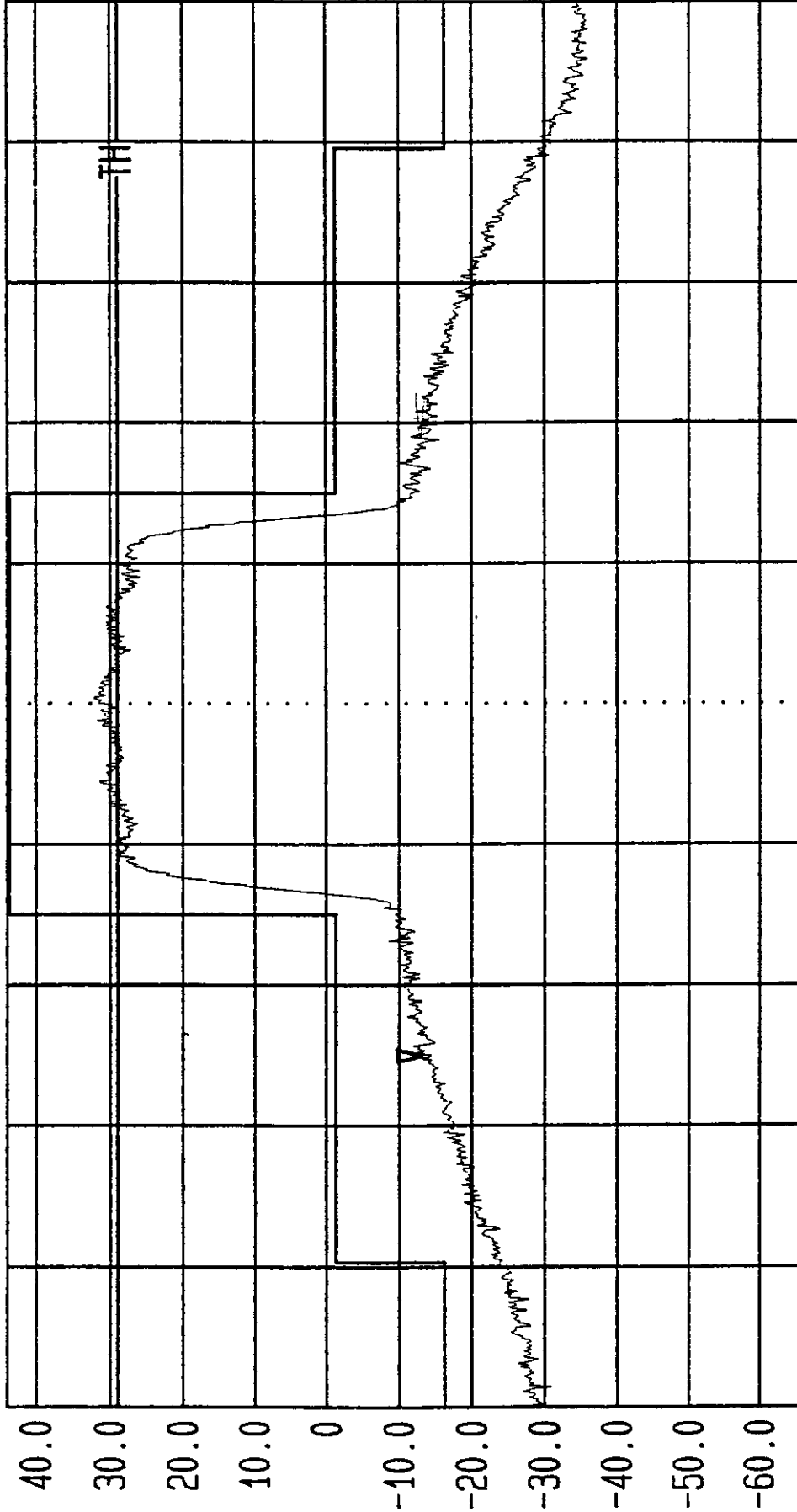
CF.Stp 500.000 kHz

Thresh 29.24 dBm

Vid.Bw 30 kHz

RF.Att 30 dB

Unit [dBm]



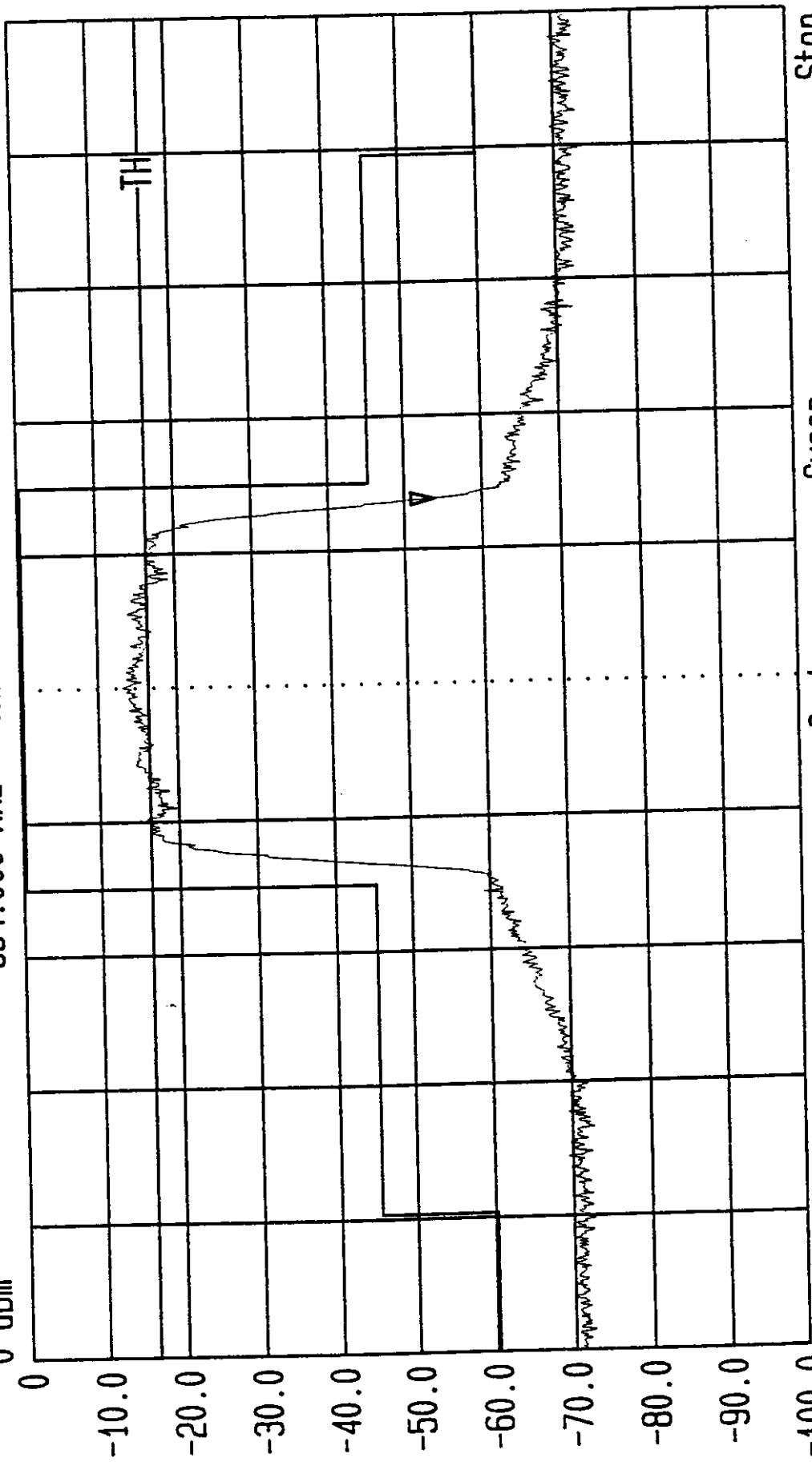
Start 890.24 MHz Center 892.74 MHz Sweep 20 ms Stop 895.24 MHz

AS5CMP-25 FCC Occupied Bandwidth: B'Band Channel# 758: 25 W @ J4/ 48 W @ CAM
CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz



LVLOFF
Date 03.Jun.'98 Time 00:39:37
Ref.Lvl 0 dBm Marker -53.73 dBm
894.000 MHz

Res.Bw 30.0 kHz [3dB] Vid.Bw 30 kHz
TG.Lvl off
CF.Stp 500.000 kHz AF.Att 30 dB
Thresh -16.20 dBm Unit [dBm]



Start 890.81 MHz Span 5 MHz Center 893.31 MHz Sweep 20 ms Stop 895.81 MHz
AS5CMP-25 FCC Occupied Bandwidth: B'Band Channel# 777: INPUT to CAM
IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz



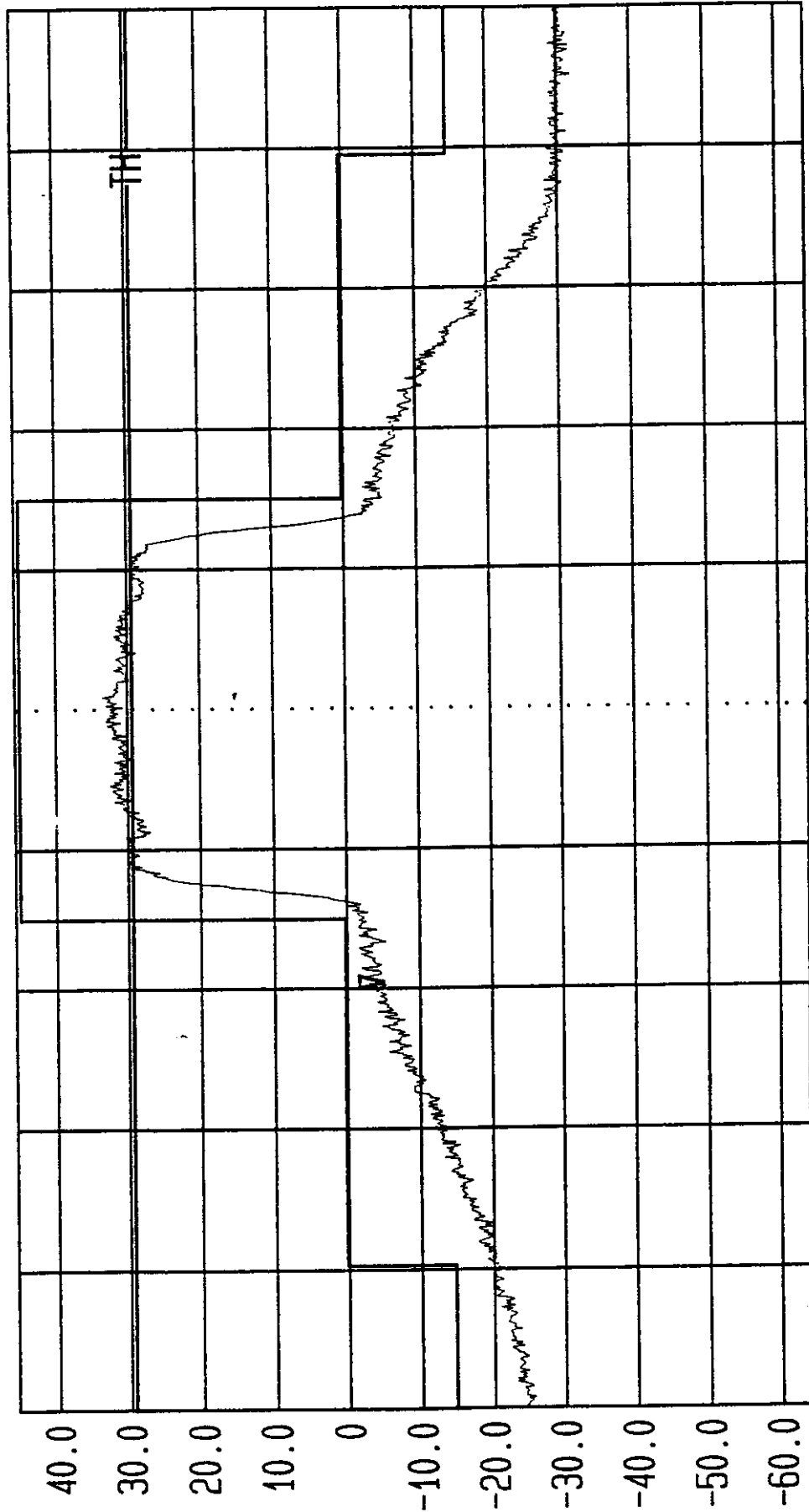
LVLOFF

Date 02.Jun.'98 Time 13:26:46

Ref.Lvl 45.70 dBm
Marker 892.336 MHz

Res.Bw 30.0 kHz [3dB]
TG.Lvl off
CF.Stp 500.000 kHz
Thresh 29.24 dBm

Vid.Bw 30 kHz
RF.Att 30 dB
Unit [dBm]



Start 890.81 MHz
 Stop 895.81 MHz
 Span 5 MHz
 Center 893.31 MHz
 Sweep 20 ms
 AS5CMP-25 FCC Occupied Bandwidth: B'Band Channel# 777: 35 W @ J4/ 48 W @ CAM
 CAM IS-97 Mask: -45 dBc at Fc+/- 750 kHz/ -60 dBc at Fc+/- 1.98 MHz

Exhibit 15:

Section 2.991

Spurious Emissions at Antenna Terminals

Spurious Emissions at the antenna terminals were investigated over the frequency range of 10 MHz to the 10th harmonic of the carrier frequency. The test setup was as described in figure 15A. Measurements were made using a Rohde & Schwarz ESMI EMI Test Receiver and an HP Model 7470A Plotter. The RF output from the transmitter was reduced (to an amplitude usable by the spectrum analyzer) by using a calibrated attenuator. The RF power level was continuously monitored via the test setup in Figure 15A. The required emission limitation specified in Section 22.907 of the Code was applied to these tests. The applied signal met the recommended characteristics per IS-95 section 10 as defined below.

Based upon the criterion given in Section 22.907 of the Code the required emission limitation is equal to -51.5 dBc or -13 dBm.

Type	Number of Channels	Fraction of Power (Linear)	Fraction of Power (dB)	Comments
Pilot	1	0.2000	-7.0	Walsh 0
Sync	1	0.0471	-13.3	Walsh 32, always 1/8 rate
Paging	1	0.1882	-7.3	Walsh 1, full rate only
Traffic	6	0.09412 each	-10.3 each	Variable Walsh Assignments, full rate only

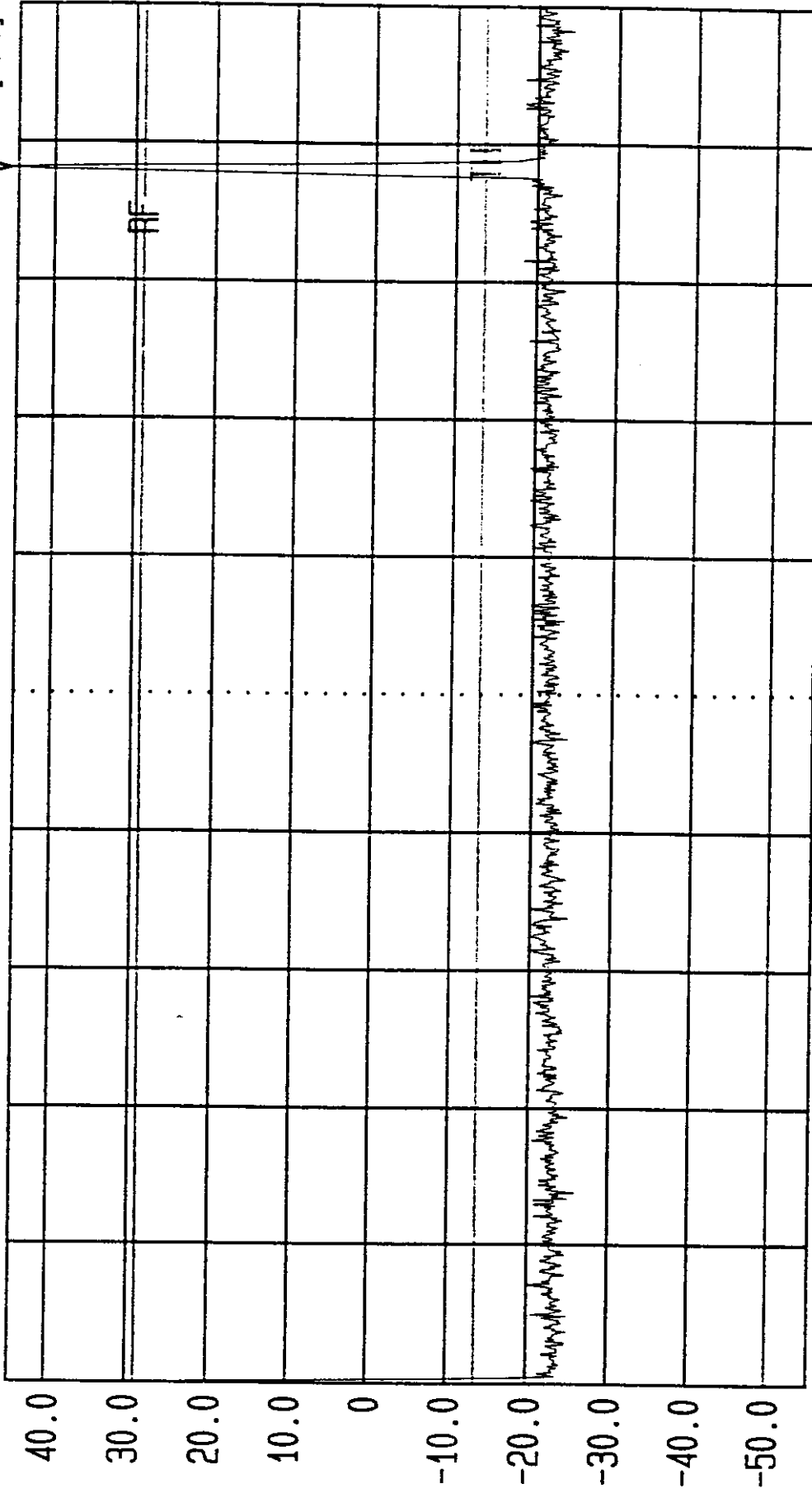
TABLE 15.1 Base Station Test Model, Nominal

Results:

The attached spectral plots document that there are no emissions above the applicable limit.



LVLOFF
 Date 27.May.'98 Time 03:44:17
 Ref.Lvl1 44.50 dBm
 Marker 45.33 dBm
 881.2 MHz
 Res.Bw 1.0 MHz [3dB]
 TG.Lvl1 off
 CF.Stp 99.900 MHz
 Thresh -13.60 dBm
 Vid.Bw 1 MHz
 RF.Att 20 dB
 Unit [dBm]



Start 1 MHz
 AS5CMP-25 CAM FCC Conducted Spurious
 Peak Hold Wide sweep
 Span 999 MHz
 Center 500.5 MHz
 Sweep 60 ms
 48 Watts at CAM 36.7 @ J4
 Stop 1 GHz



LVLOFF

Date 27.May.'98 Time 03:35:39

Ref.Lvl 45.60 dBm

Marker 45.20 dBm

881.1 MHz

Res.Bw

TG.Lvl

CF.Stp

Thresh

1.0 MHz [3dB]

off

100.000 MHz

-13.00 dBm

Vid.Bw

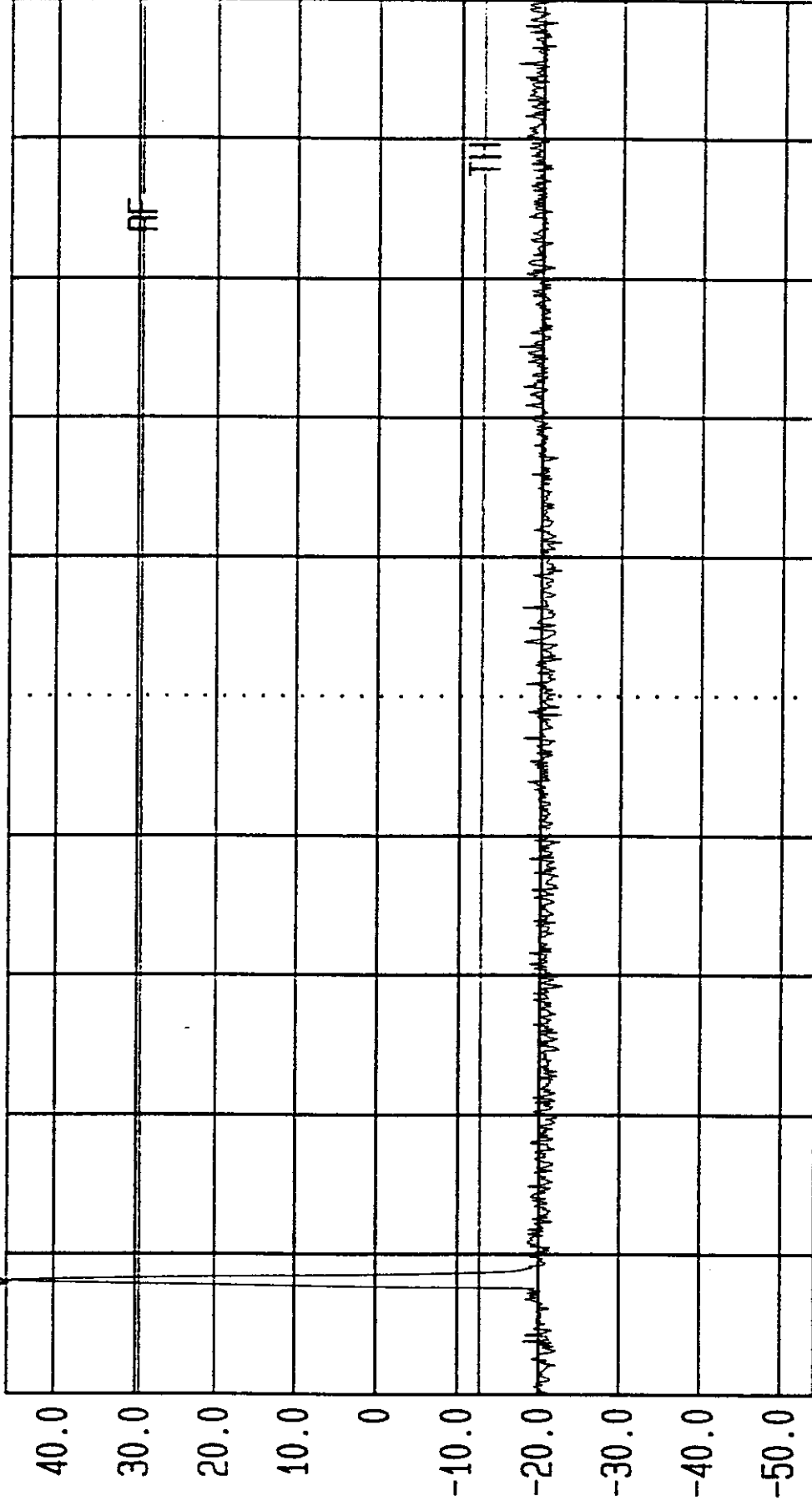
RF.Att

Unit

1 MHz

20 dB

[dBm]

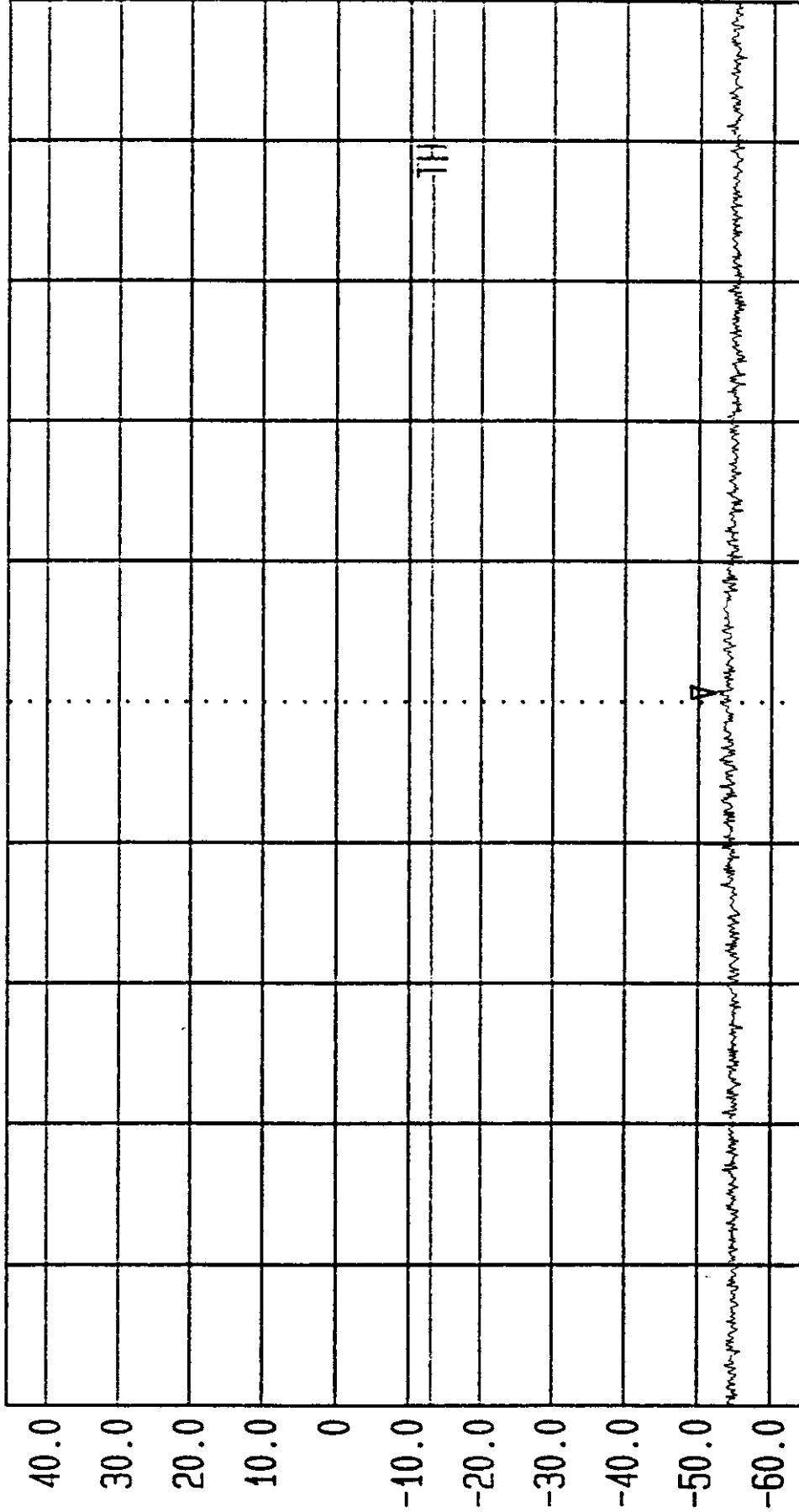


Start 0.800 GHz Stop 1.8 GHz
 Center 1.3 GHz
 Span 1 GHz
 Sweep 20 ms
 Res.Bw 1.0 MHz [3dB]
 TG.Lvl off
 CF.Stp 100.000 MHz
 Thresh -13.00 dBm
 Vid.Bw RF.Att Unit
 1 MHz 20 dB [dBm]

AS5CMP-25 CAM FCC Conducted Spurious Peak Hold Wide sweep
 Channel 283 48 Watts at CAM 36.7 @ J4



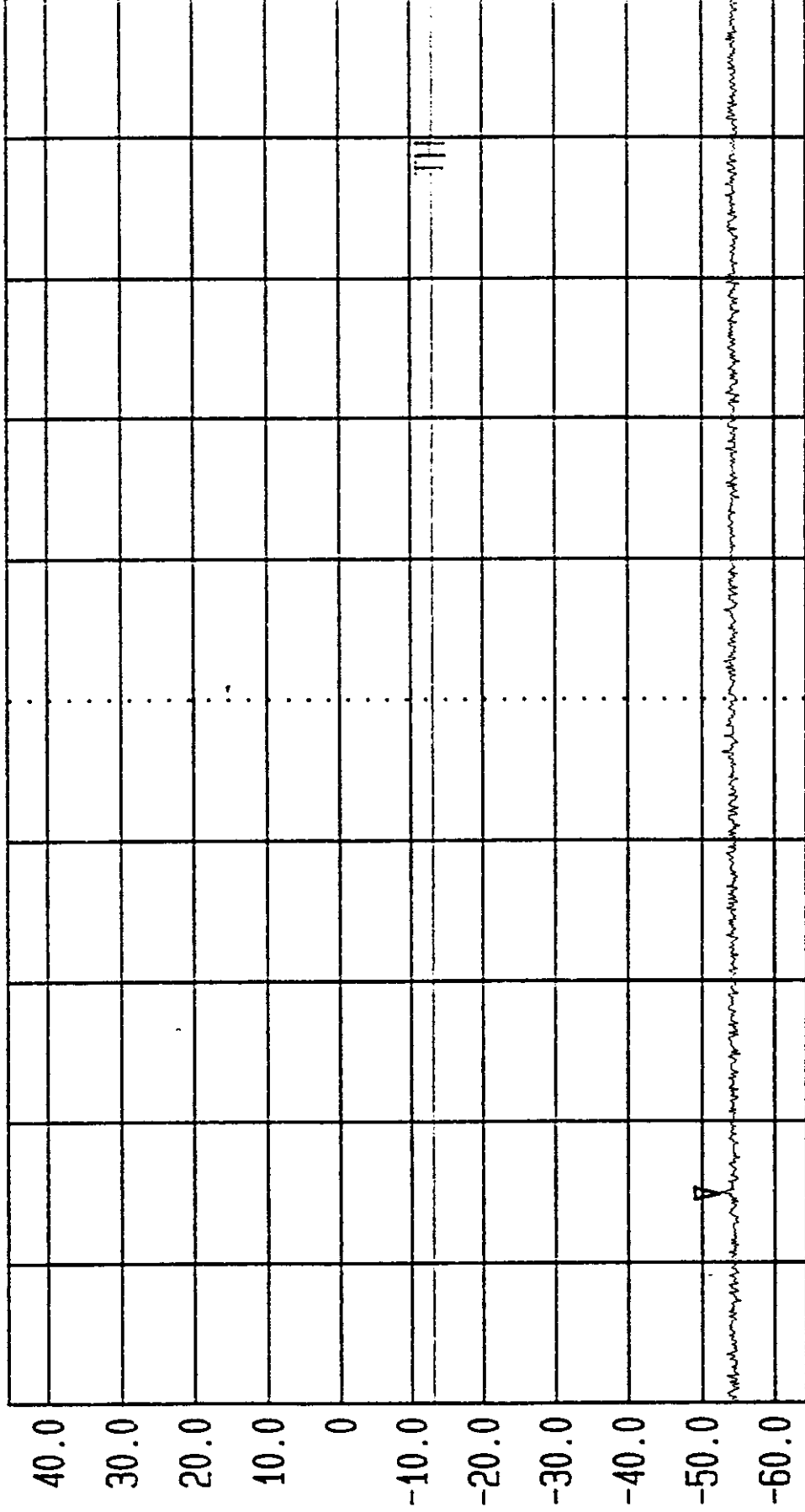
LVLOFF
 Date 27.May.'98 Time 06:00:30
 Ref.Lvl 45.40 dBm
 Marker -52.56 dBm
 1.757018 GHz
 Res.Bw 3.0 kHz [3dB]
 TG.Lvl off
 CF.Stp 500.000 kHz
 Thresh -13.20 dBm
 Vid.Bw 3 kHz
 RF.Att 10 dB
 Unit [dBm]



Start 1.75448 GHz
 Stop 1.75948 GHz
 AS5CMP-25 CAM FCC Conducted Spurious
 Peak Hold Wide Sweep
 Center 1.75698 GHz
 Channel 283
 2nd Harmonic
 Span 5 MHz
 Sweep 1.68 s
 48 Watts at CAM 35 @ J4



LVLOFF
 Date 27.May.'98 Time 06:06:02
 Ref.Lvl 45.40 dBm
 Marker 2.633714 GHz
 Res.Bw 3.0 kHz [3dB]
 TG.Lvl off
 CF.Stp 500.000 kHz
 Thresh -13.20 dBm
 Vid.Bw 3 kHz
 RF.Att 10 dB
 Unit [dBm]



Start 2.63297 GHz
 AS50MP-25 CAM FCC Conducted Spurious
 Peak Hold Wide Sweep
 Span 5 MHz
 Center 2.63547 GHz
 Channel 283
 3rd Harmonic
 Sweep 1.68 s
 48 Watts at CAM 35 @ J4
 Stop 2.63797 GHz

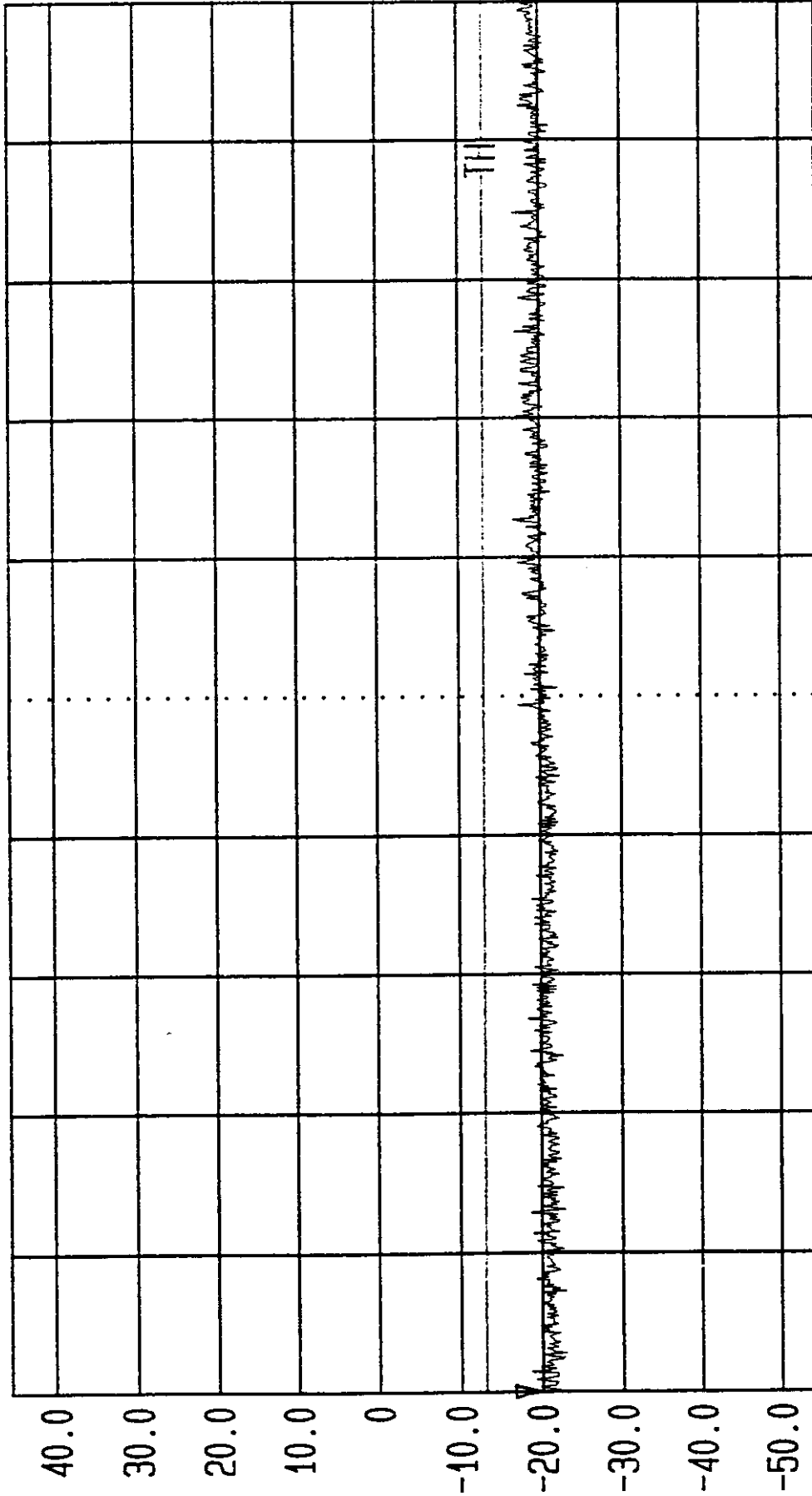


LVLOFF

Date 27.May.'98 Time 04:18:17
Ref.Lvl 45.40 dBm
Marker -19.70 dBm
1.0000 GHz

Res.Bw 1.0 MHz [3dB]
TG.Lvl Off
CF.Stp 100.000 MHz
Thresh -13.20 dBm

Vid.Bw 1 MHz
RF.Att 20 dB
Unit [dBm]



Start
1 GHz

Span
1 GHz

Center
1.5 GHz

Sweep
80 ms

Stop
2 GHz

AS5CMP-25 CAM FCC Conducted Spurious
Peak Hold Wide Sweep
Channel 283 48 Watts at CAM 35 @ J4



LVL OFF

Date 27.May.'98 Time 04:21:23

Ref.Lvl 45.40 dBm

Marker -21.02 dBm

2.0000 GHz

Res.Bw

TG.Lvl

CF.Stp

Thresh

1.0 MHz [3dB]

off

100.000 MHz

-13.20 dBm

Vid.Bw

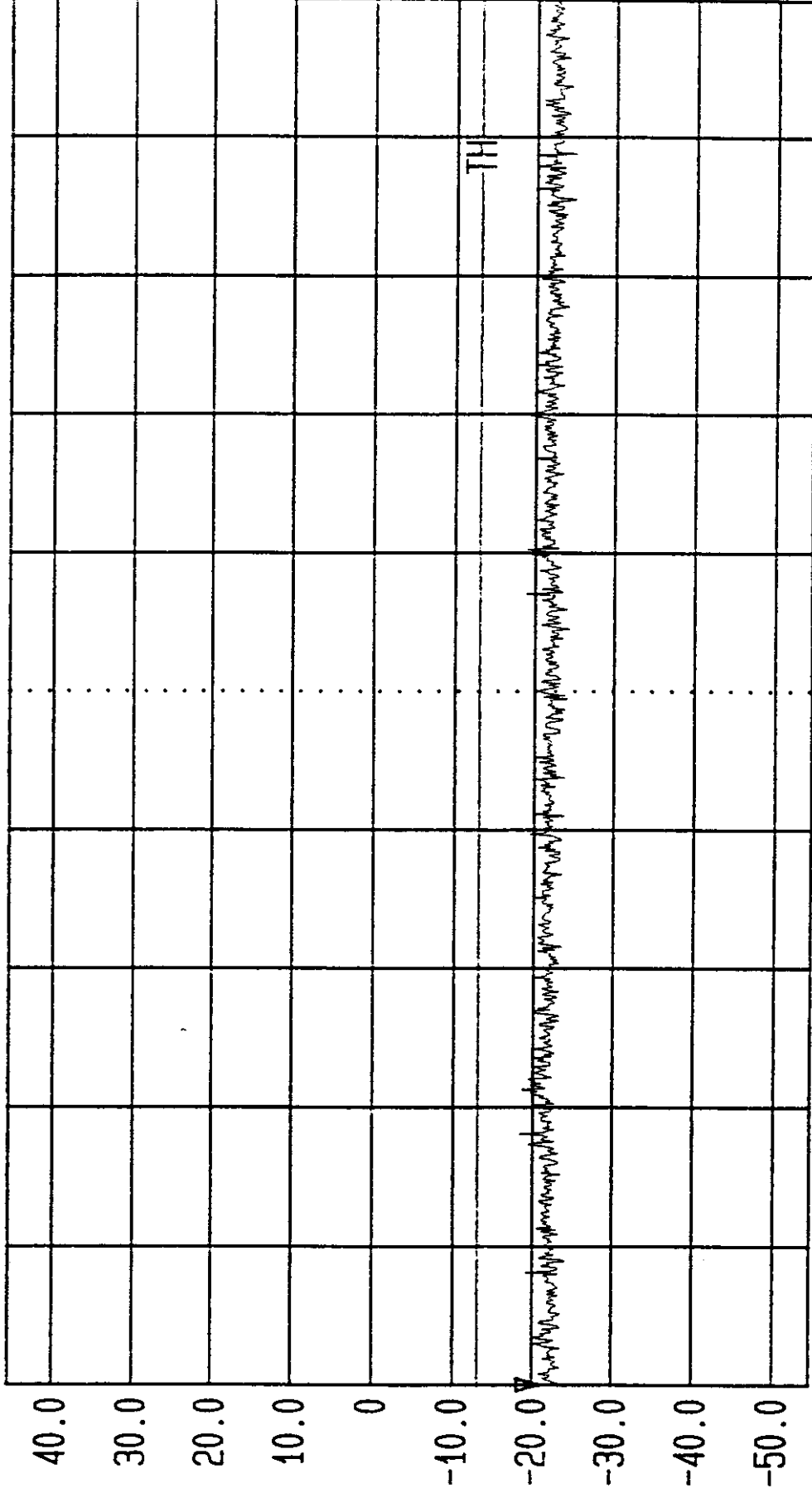
AF.Att

Unit

1 MHz

10 dB

[dBm]



Start 2 GHz

Span 1 GHz

Center 2.5 GHz

Sweep 80 ms

Stop 3 GHz

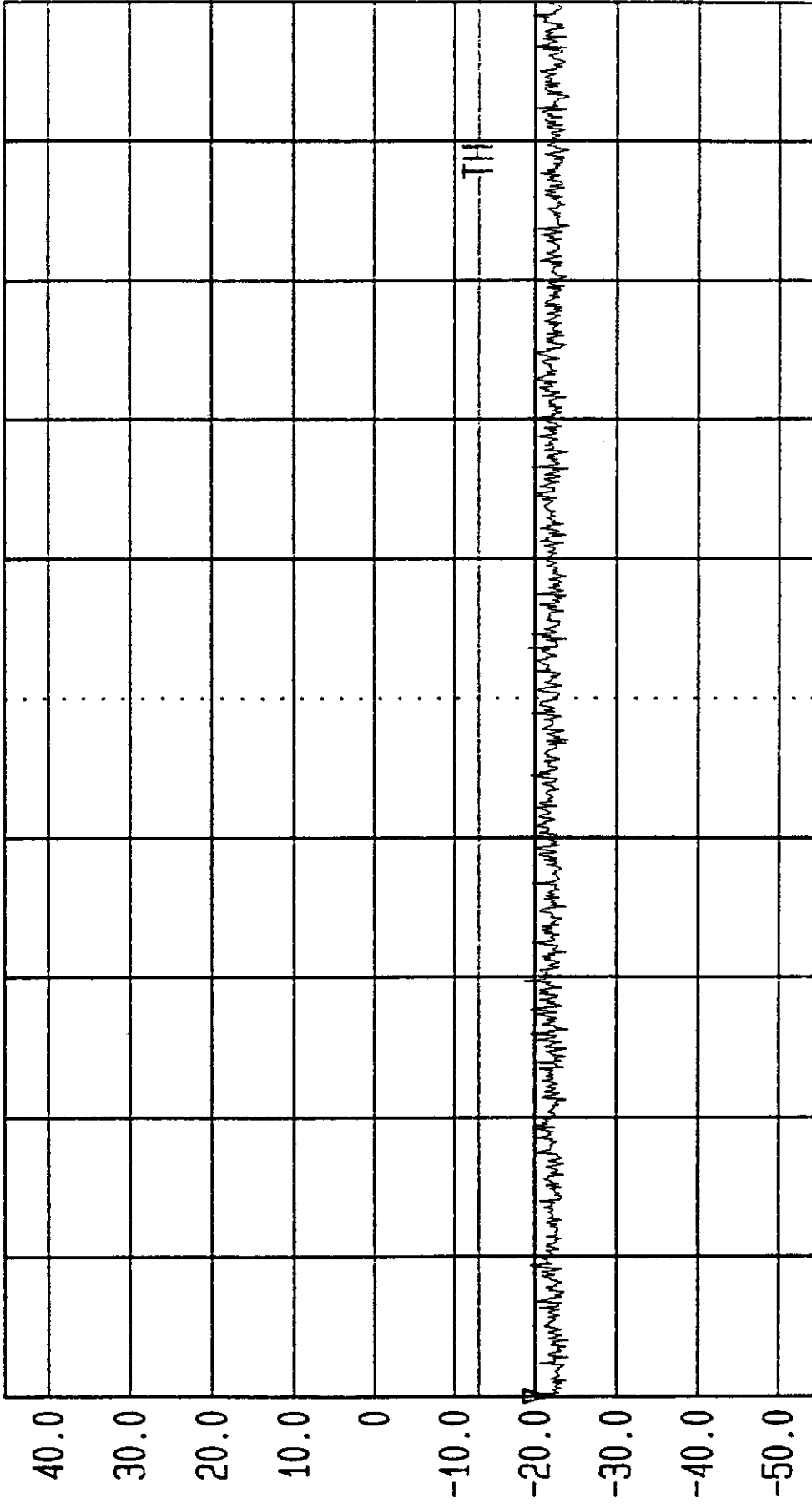
AS50MP-25 CAM

FCC Conducted Spurious Peak Hold Wide Sweep

48 Watts at CAM 35 @ J4



LVLOFF
 Date 27.May.'98 Time 04:27:01
 Ref.Lvl 45.40 dBm
 Marker -21.74 dBm
 3.0000 GHz
 Res.BW 1.0 MHz [3dB]
 TG.Lvl Off
 CF.Stp 100.000 MHz
 Thresh -13.20 dBm
 Vid.Bw 1 MHz
 RF.Att 10 dB
 Unit [dBm]

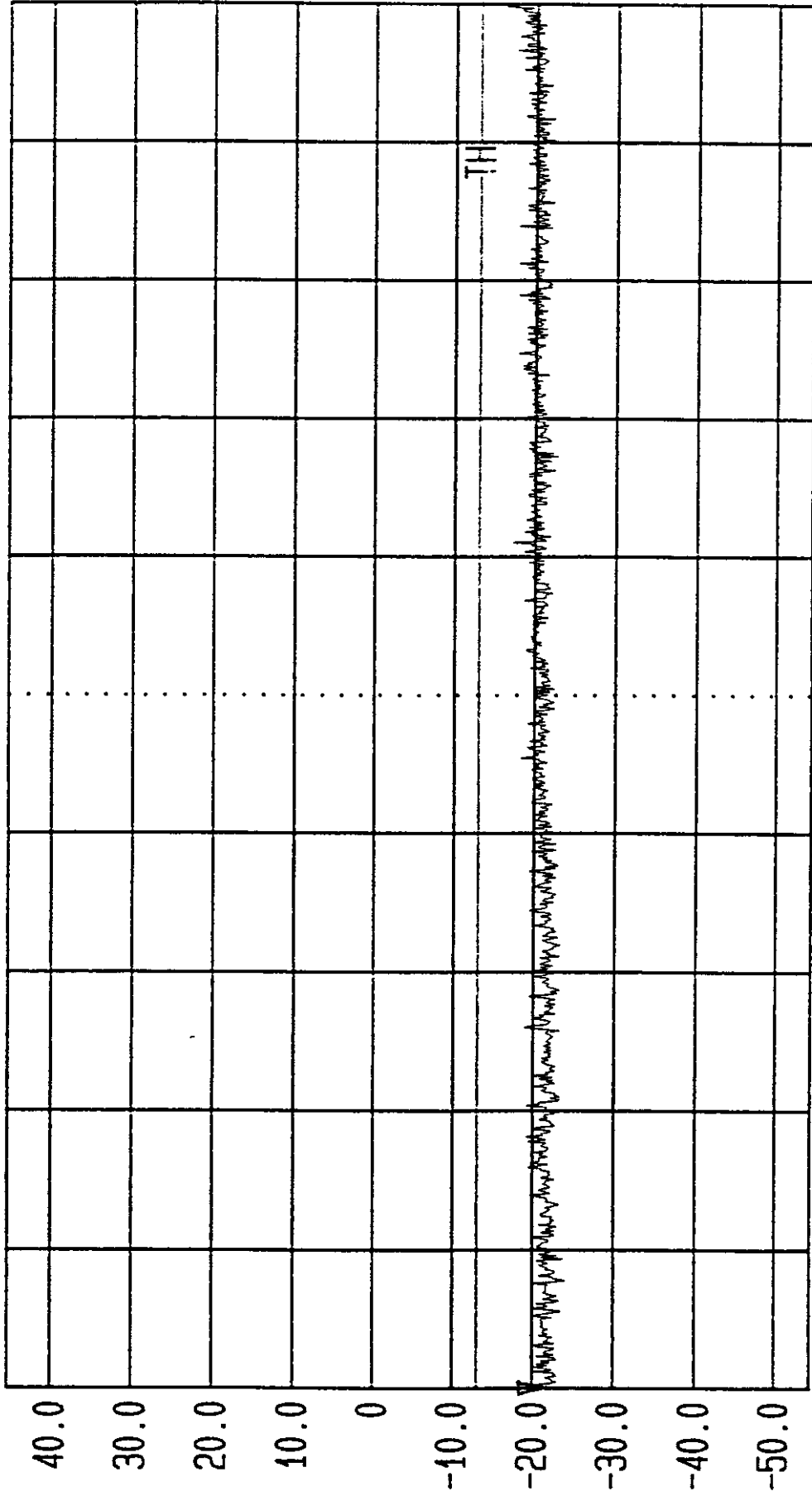


Start 3 GHz
 Stop 4 GHz
 Span 1 GHz
 Center 3.5 GHz
 Sweep 80 ms
 AS5CMP-25 CAM FCC Conducted Spurious Peak Hold Wide Sweep
 Channel 283 48 Watts at CAM 35 @ J4



LVLOFF
 Date 27.May.'98 Time 04:30:50
 Ref.Lvl 45.40 dBm
 Marker -21.41 dBm
 4.0000 GHz

Res.Bw 1.0 MHz [3dB]
 TG.Lvl Off
 CF.Stp 100.000 MHz
 Thresh -13.20 dBm
 Vid.Bw 1 MHz
 RF.Att 10 dB
 Unit [dBm]



Start 4 GHz
 AS5CMP-25 CAM FCC Conducted Spurious Peak Hold Wide Sweep
 Span 1 GHz
 Center 4.5 GHz
 Channel 283
 Sweep 80 ms
 48 Watts at CAM 35 @ J4
 Stop 5 GHz

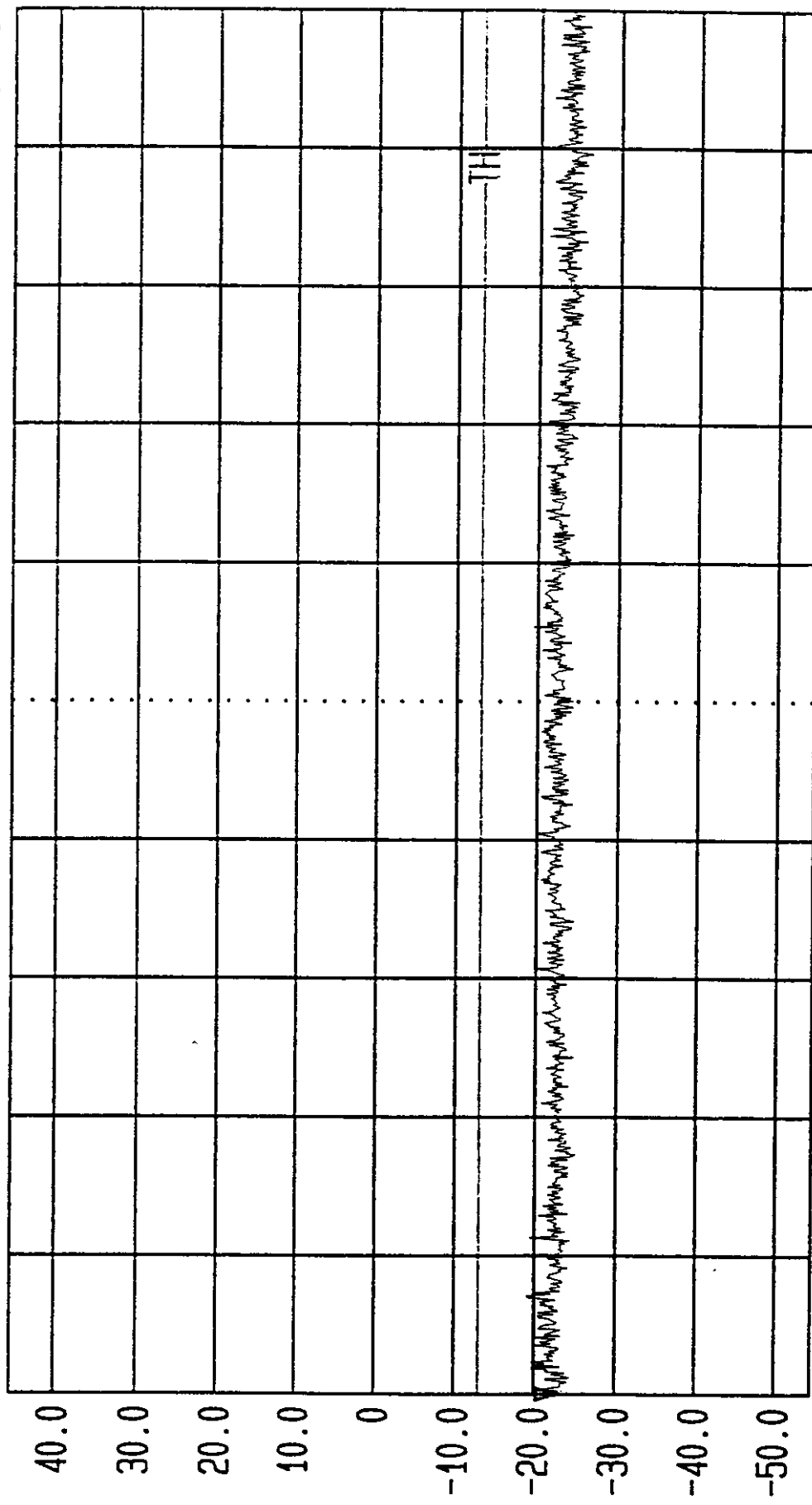


LVLOFF
Date 27.May.'98 Time 04:37:35

Ref.Lvl1
45.40 dBm

Marker
-23.26 dBm
5.0000 GHz

Res.Bw
1.0 MHz [3dB]
TG.Lvl1
Off
CF.Stp
100.000 MHz
Thresh
-13.20 dBm
Vid.Bw
1 MHz
RF.Att
10 dB
Unit
[dBm]



Start
5 GHz
AS5CMP-25 CAM FCC Conducted Spurious
Peak Hold Wide Sweep

Span
1 GHz

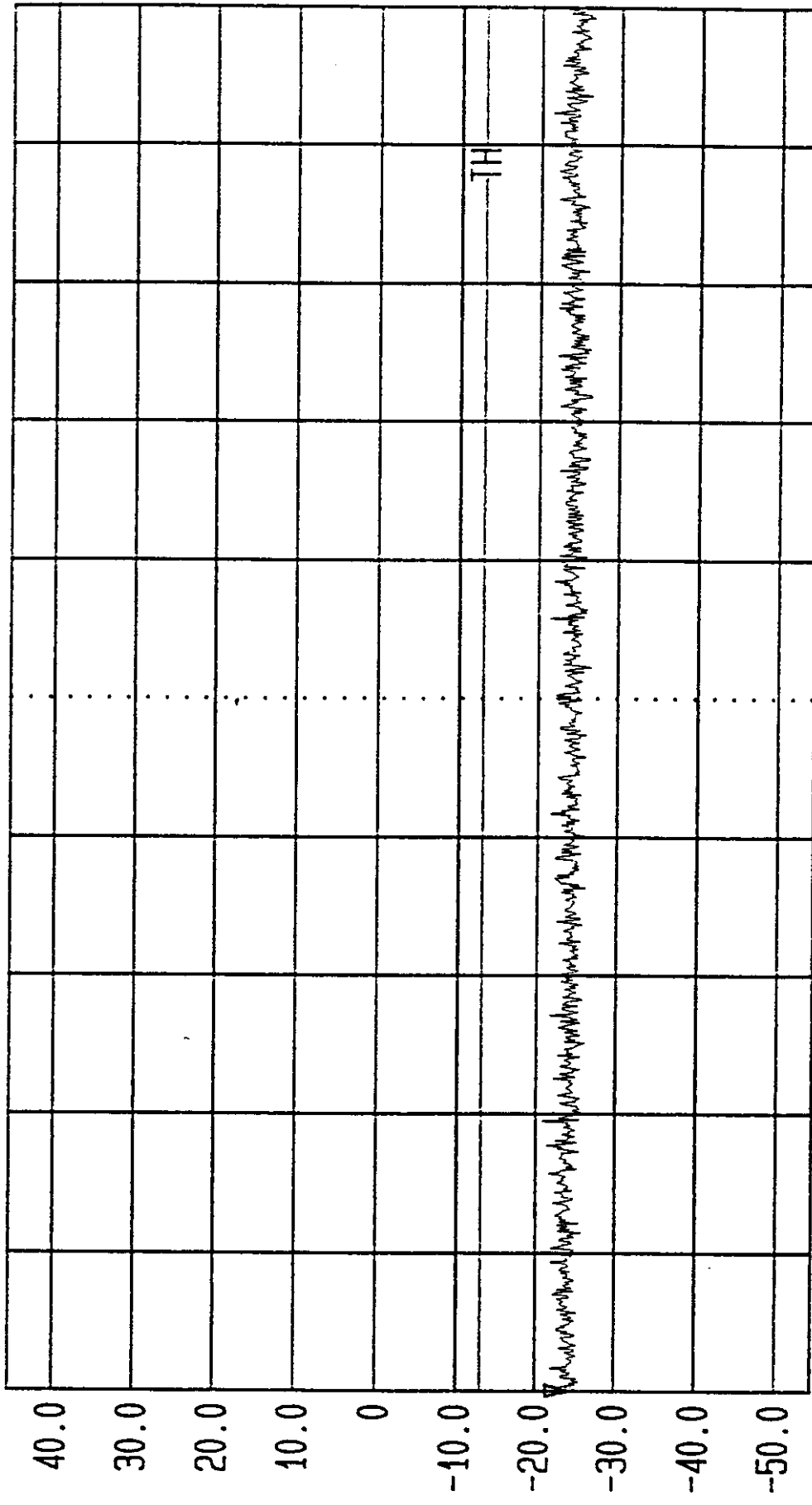
Center
5.5 GHz
Channel 283

Sweep
80 ms
48 Watts at CAM

Stop
6 GHz
35 @ J4



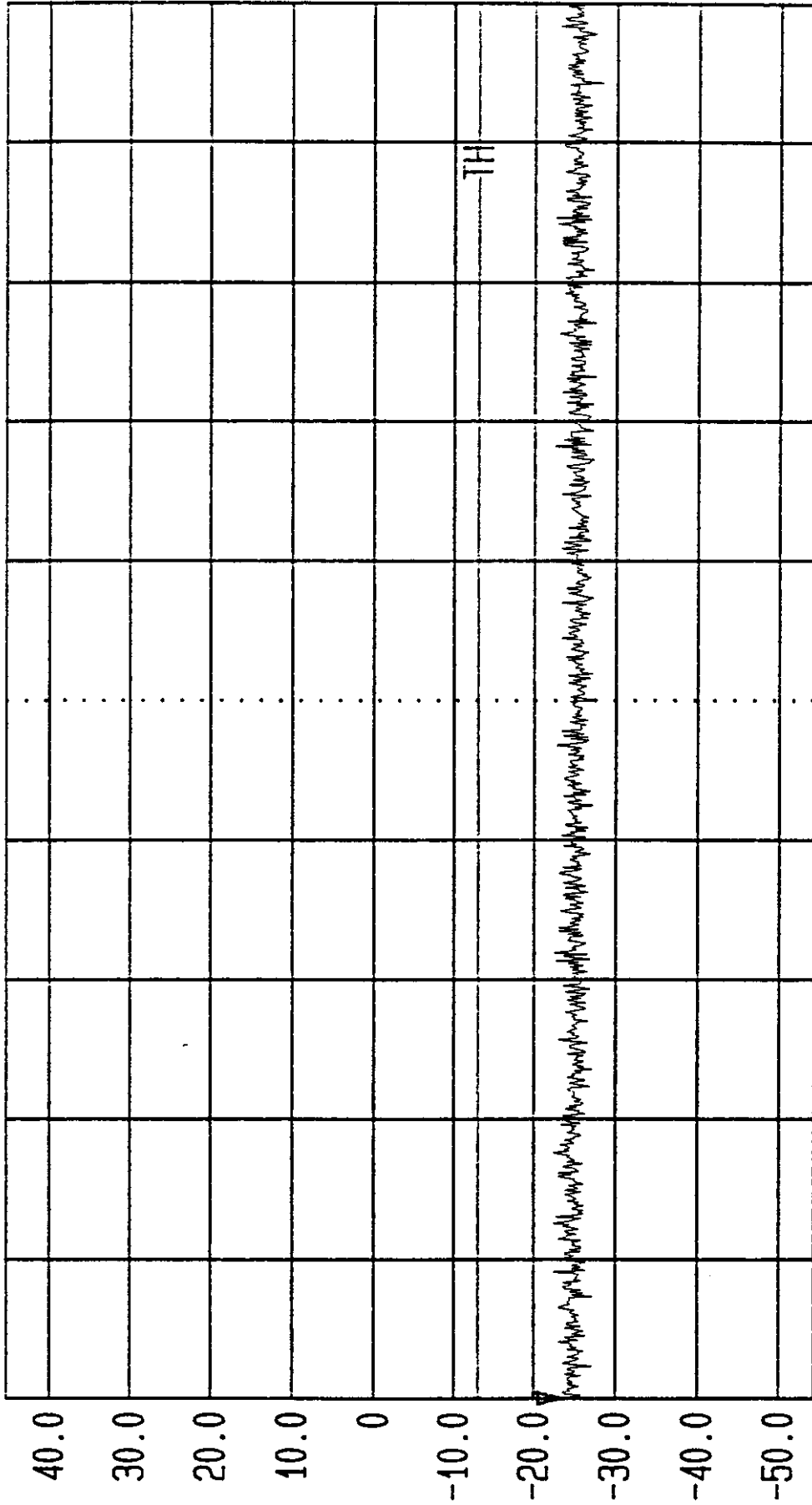
LVLOFF
 Date 27.May.'98 Time 04:43:07
 Ref.Lvl 45.40 dBm
 Marker -24.58 dBm
 6.0000 GHz
 Res.Bw 1.0 MHz [3dB]
 TG.Lvl Off
 CF.Stp 100.000 MHz
 Thresh -13.20 dBm
 Vid.Bw 1 MHz
 RF.Att 10 dB [dBm]
 Unit



Start 6 GHz
 AS5CMP-25 CAM FCC Conducted Spurious Peak Hold Wide Sweep
 Span 1 GHz
 Center Channel 283
 Sweep 80 ms
 Stop 7 GHz
 48 Watts at CAM 35 @ J4



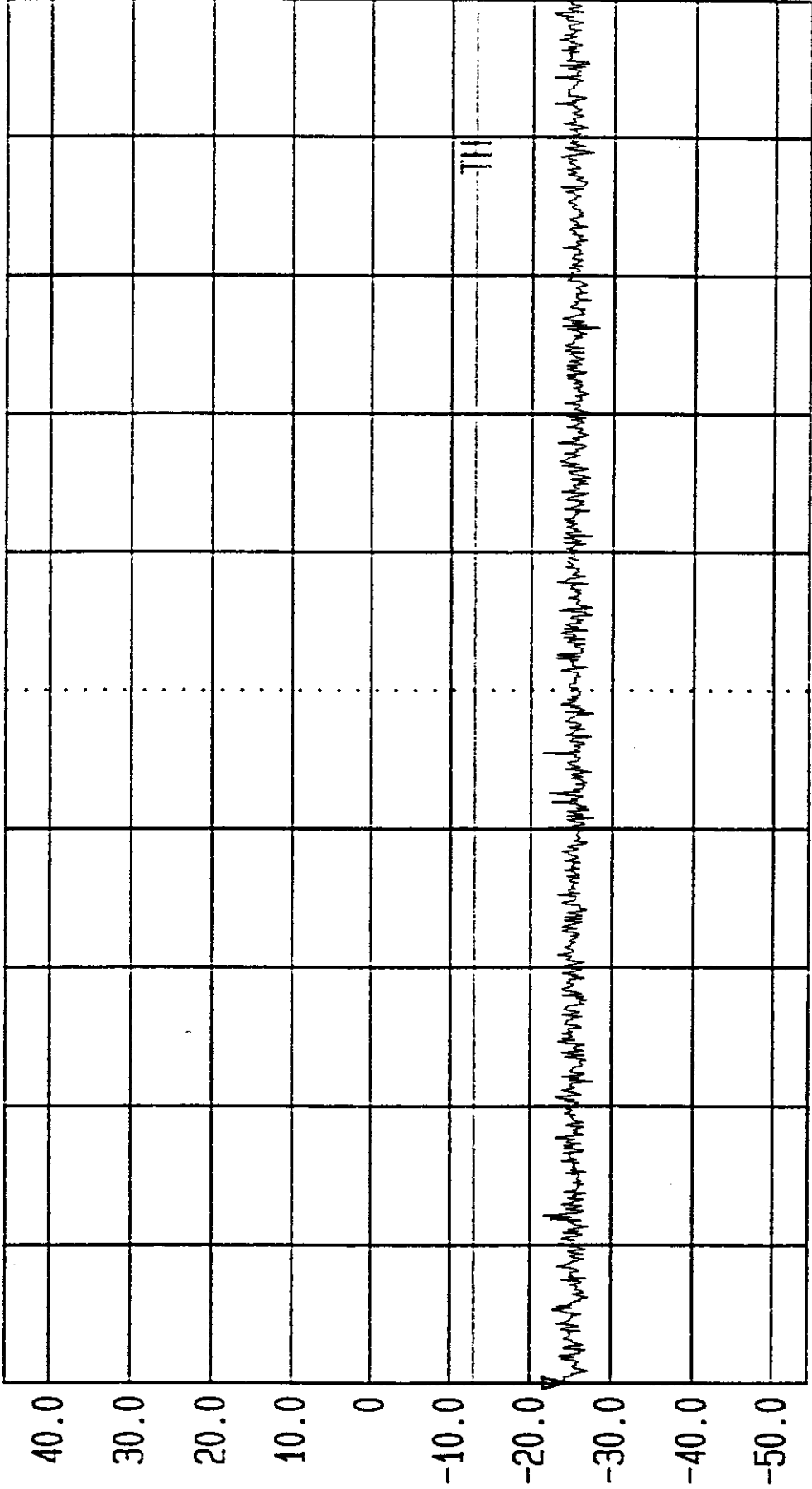
LVLOFF
 Date 27.May.'98 Time 04:46:17
 Ref.Lvl 45.40 dBm
 Marker -23.74 dBm
 7.0000 GHz
 Res.Bw 1.0 MHz [3dB]
 TG.Lvl off
 CF.Stp 100.000 MHz
 Thresh -13.20 dBm
 Vid.Bw 1 MHz
 RF.Att 10 dB
 Unit [dBm]



Start 7 GHz
 Stop 8 GHz
 Span 1 GHz
 Center 7.5 GHz
 Sweep 80 ms
 AS50MP-25 CAM FCC Conducted Spurious Peak Hold Wide Sweep
 Channel 283 48 Watts at CAM 35 @ J4



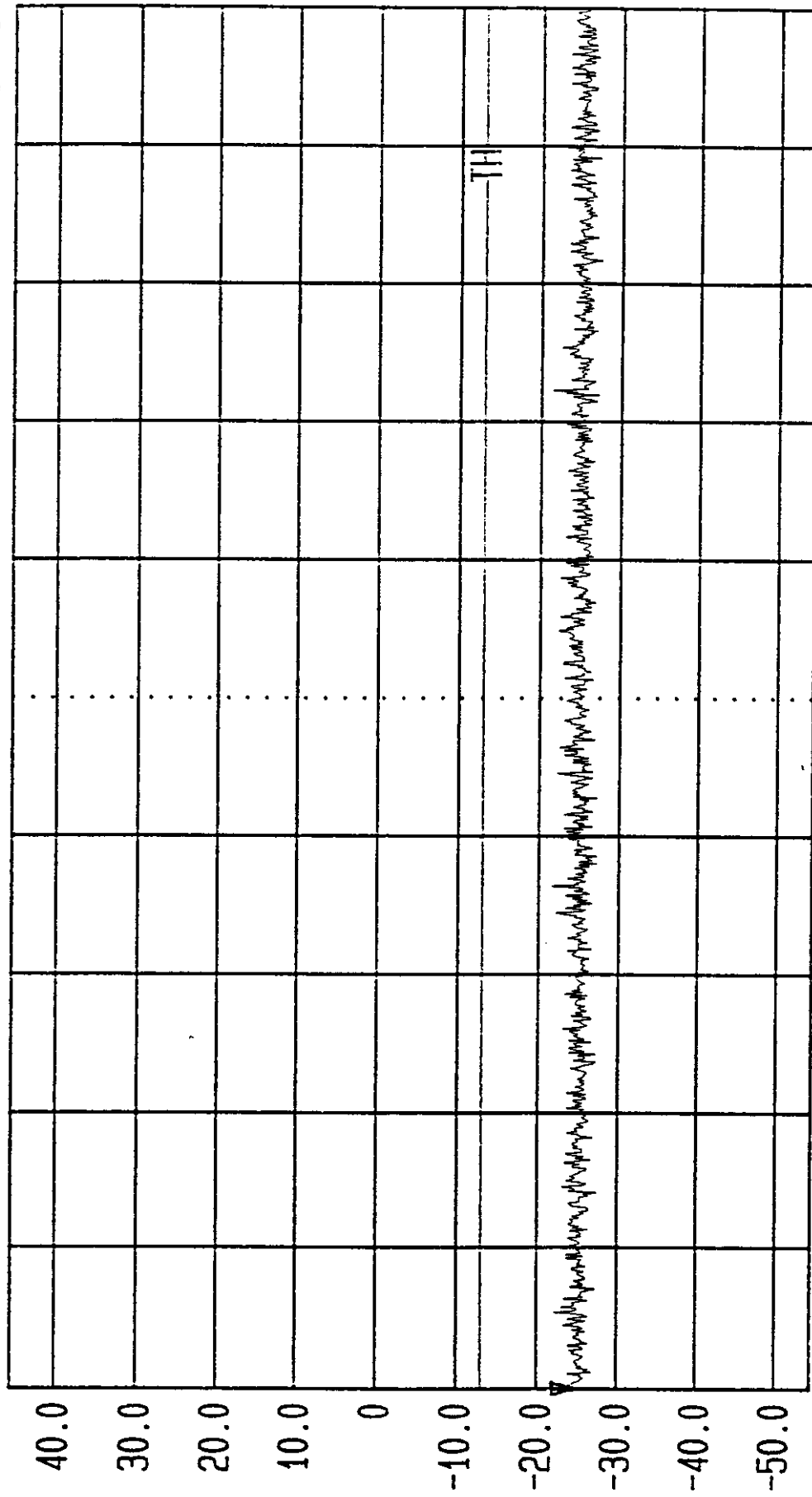
LVLOFF
 Date 27.May.'98 Time 04:50:08
 Ref.Lvl1 45.40 dBm
 Marker -24.71 dBm
 8.0000 GHz
 Res.Bw 1.0 MHz [3dB]
 TG.Lvl1 Off
 CF.Stp 100.000 MHz
 Thresh -13.20 dBm
 Vid.Bw 1 MHz
 RF.Att 10 dB
 Unit [dBm]



Start 8 GHz
 Span 1 GHz
 Center 8.5 GHz
 Sweep 80 ms
 Stop 9 GHz
 AS5CMP-25 CAM FCC Conducted Spurious
 Peak Hold Wide Sweep
 Channel 283 48 Watts at CAM 35 @ J4



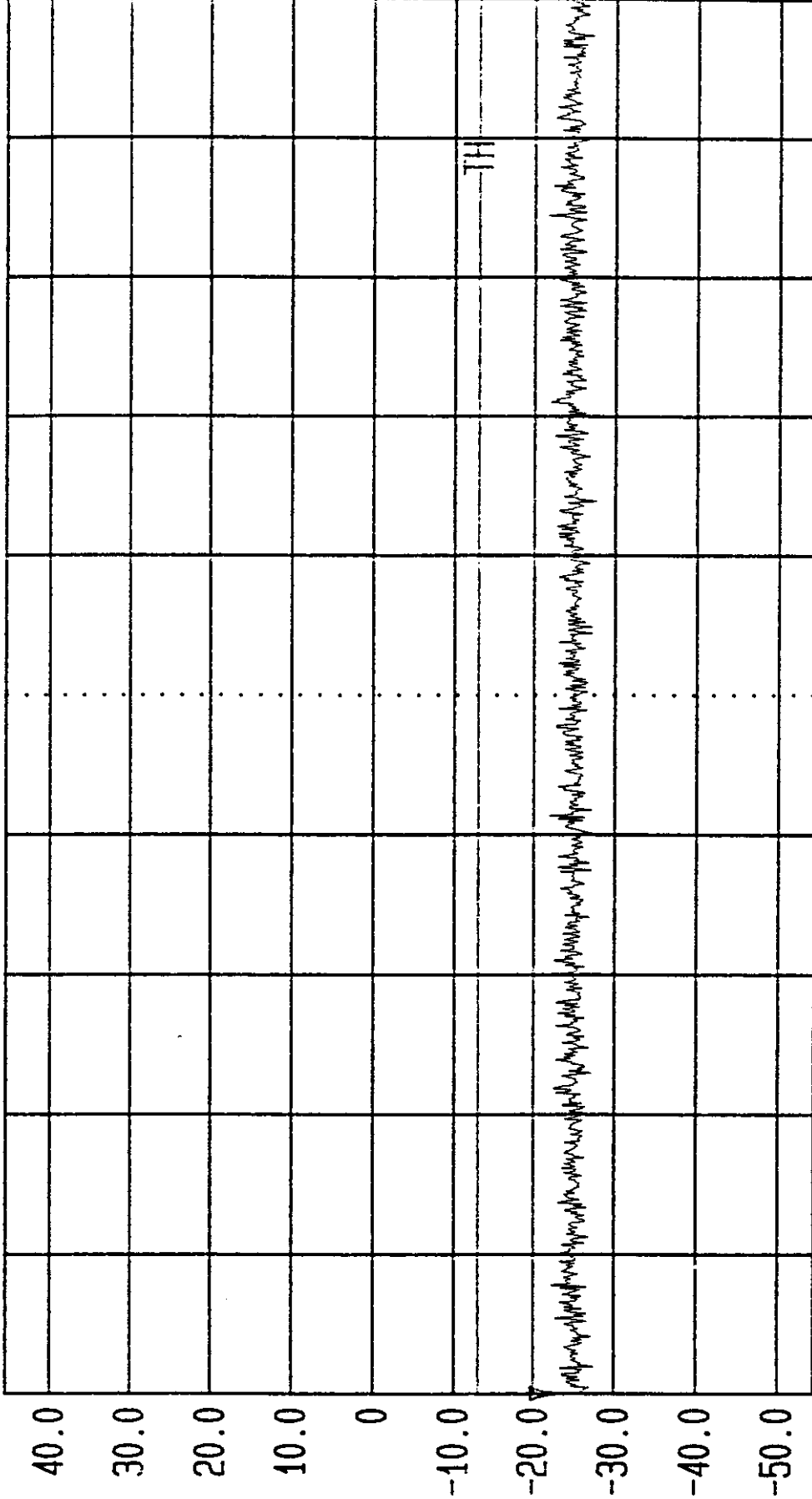
LVL OFF
 Date 27. May. '98 Time 04:53:27
 Ref. Lvl 45.40 dBm
 Marker -25.06 dBm
 9.0000 GHz
 Res. Bw 1.0 MHz [3dB]
 TG. Lvl off
 CF. Stp 100.000 MHz
 Thresh -13.20 dBm
 Vid. Bw 1 MHz
 RF. Att 10 dB
 Unit [dBm]



Start 9 GHz
 AS5CMP-25 CAM FCC Conducted Spurious Peak Hold Wide Sweep
 Span 1 GHz
 Center 9.5 GHz
 Channel 283
 Sweep 80 ms
 48 Watts at CAM 35 @ J1
 Stop 10 GHz



LVLOFF
 Date 27.May.'98 Time 04:58:38
 Ref.Lvl 45.40 dBm
 Marker 10.0000 GHz
 Res.Bw 1.0 MHz [3dB]
 TG.Lvl off
 CF.Stp 100.000 MHz
 Thresh -13.20 dBm
 Vid.Bw 1 MHz
 RF.Att 10 dB
 Unit [dBm]



AS55CMP-25 CAM FCC Conducted Spurious
 Peak Hold Wide Sweep
 Channel 283 48 Watts at CAM 35 @ J4

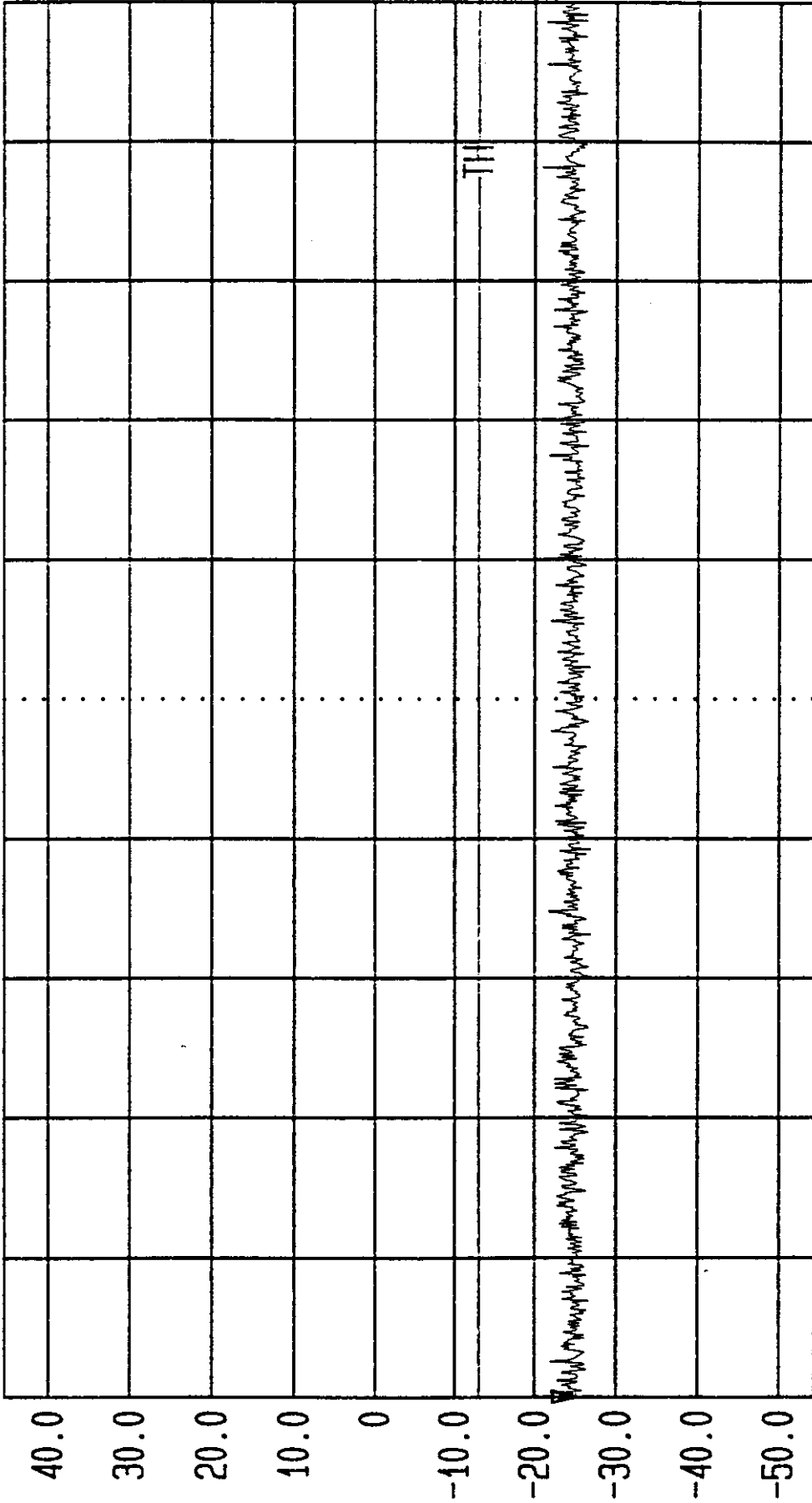


LVLOFF

Date 27.May.'98 Time 05:02:05
Ref.Lvl 45.40 dBm
Marker -25.32 dBm
11.0000 GHz

Res.Bw 1.0 MHz [3dB]
TG.Lvl Off
CF.Stp 100.000 MHz
Thresh -13.20 dBm

Vid.Bw 1 MHz
RF.Att 10 dB
Unit [dBm]



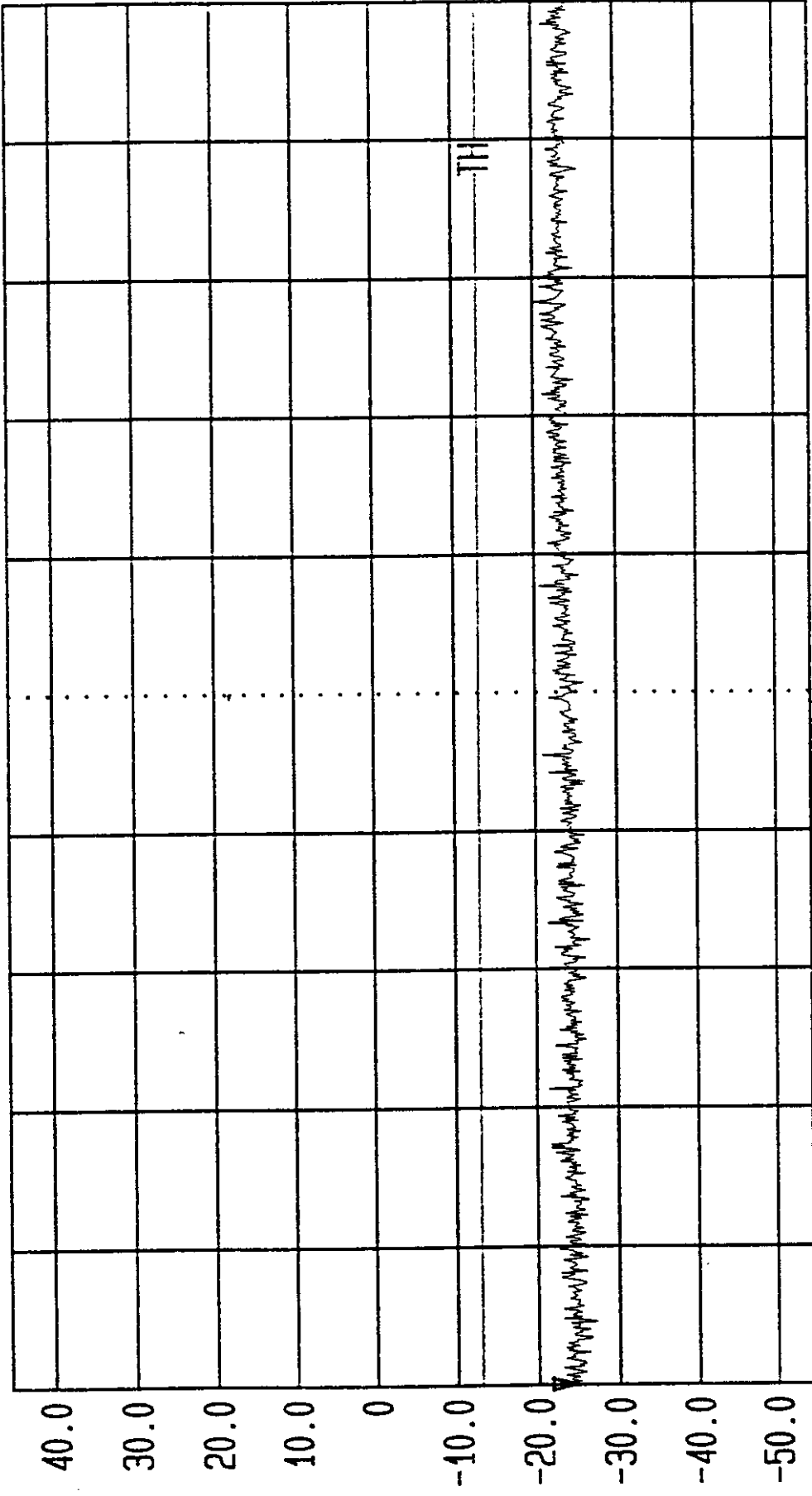
Start 11 GHz
Span 1 GHz
Center 11.5 GHz
Channel 283
48 Watts at CAM 35 @ J4
Sweep 80 ms
Stop 12 GHz



LVL OFF

Date 27. May. '98 Time 05: 05: 47
Ref. Lvl 45.40 dBm
Marker -24.86 dBm
12.0000 GHz

Res. Bw 1.0 MHz [3dB]
TG. Lvl Off
CF. Stp 100.000 MHz
Thresh -13.20 dBm
Vid. Bw 1 MHz
RF. Att 10 dB
Unit [dBm]



Start 12 GHz
AS5CMP-25 CAM FCC Conducted Spurious
Peak Hold Wide Sweep

Center 12.5 GHz
Channel 283 48 Watts at CAM 35 @ J4

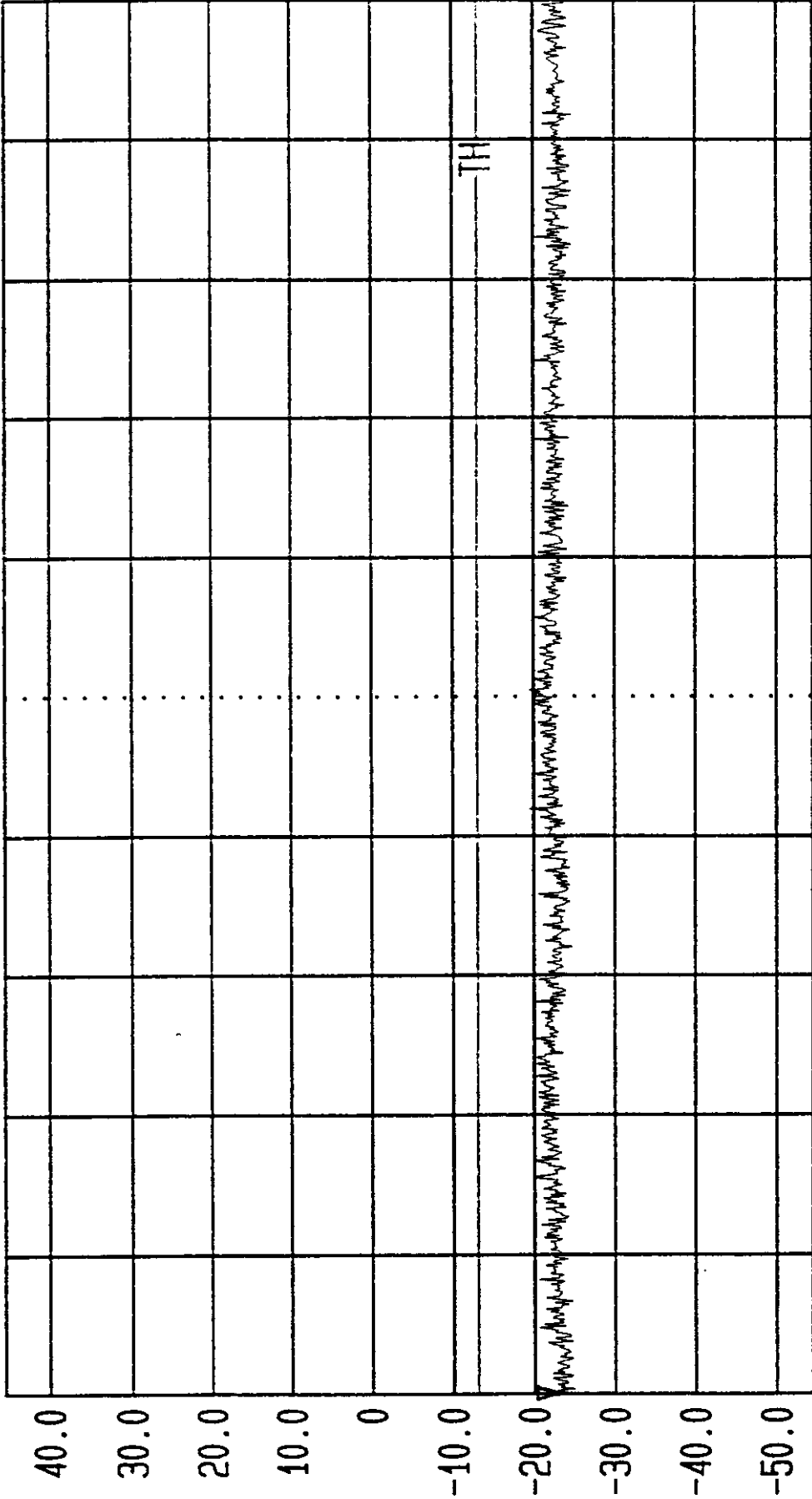
Sweep 80 ms
Stop 13 GHz



LVLOFF
 Date 27. May. '98 Time 05:09:27
 Ref. Lvl 45.40 dBm
 Marker -23.36 dBm
 13.0000 GHz

Res. BW 1.0 MHz [3dB]
 TG. Lvl Off
 CF. Stp 100.000 MHz
 Thresh -13.20 dBm

Vid. BW 1 MHz
 RF. Att 10 dB
 Unit [dBm]



Start 13 GHz
 AS5CMP-25 CAM FCC Conducted Spurious
 Peak Hold Wide Sweep

Center 13.5 GHz
 Channel 283
 48 Watts at CAM 35 @ J4

Sweep 80 ms
 Stop 14 GHz

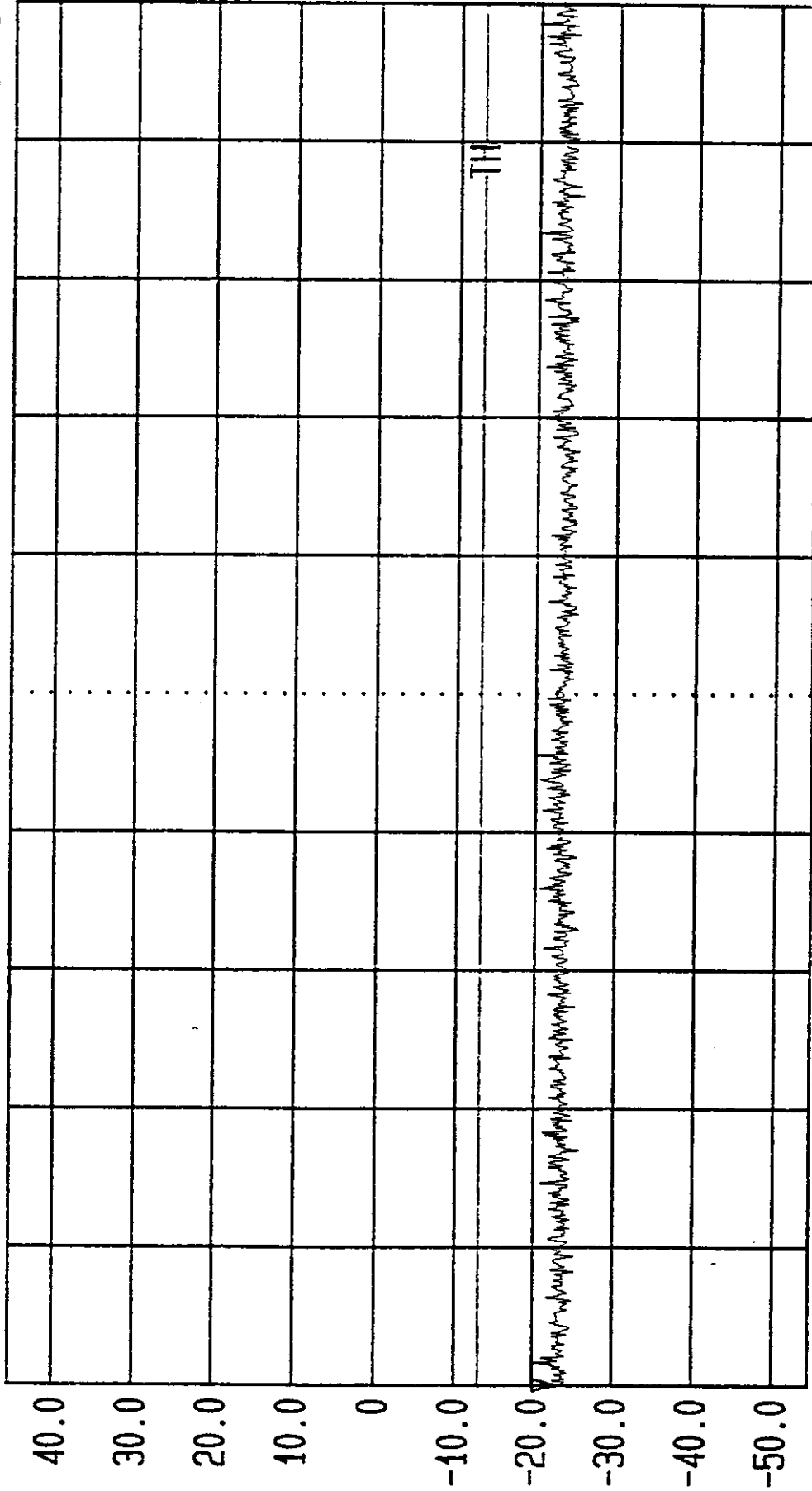


LVLOFF

Date 27.May.'98 Time 05:23:14
Ref.Lvl 45.40 dBm Marker -22.95 dBm
14.0000 GHz

Res.Bw 1.0 MHz [3dB]
TG.Lvl Off
CF.Stp 100.000 MHz
Thresh -13.20 dBm

Vid.Bw 1 MHz
RF.Att 10 dB
Unit [dBm]



Start 14 GHz
AS5CMP-25 CAM FCC Conducted Spurious
Peak Hold Wide Sweep

Center 14.5 GHz
Channel 283

Sweep 80 ms
48 Watts at CAM

Stop 15 GHz
35 @ J4

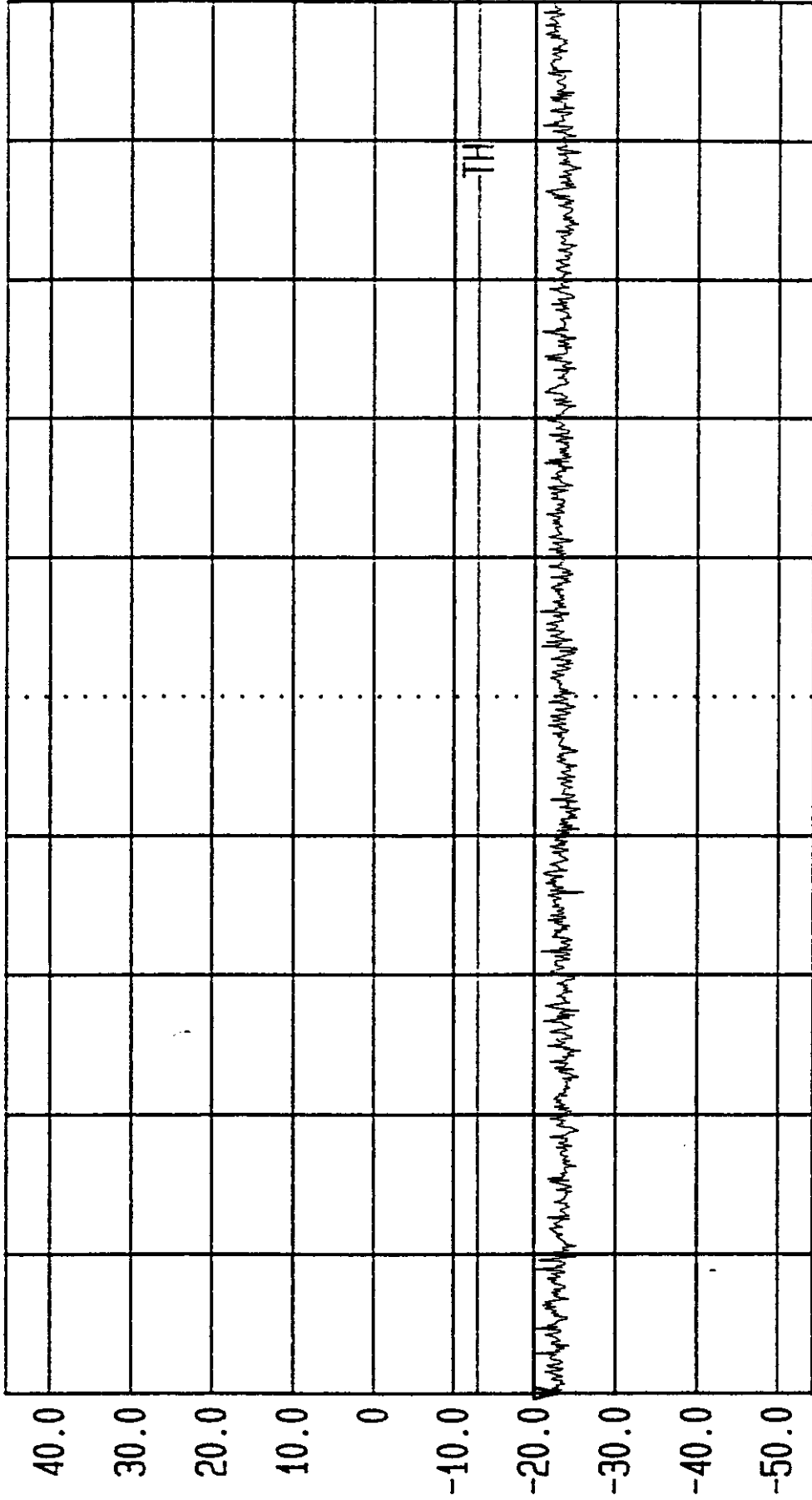


LVLOFF

Date 27.May.'98 Time 05:27:00
Ref.Lvl1 45.40 dBm
Marker -23.06 dBm
15.0000 GHz

Res.Bw 1.0 MHz [3dB]
TG.Lvl1 off
CF.Stp 100.000 MHz
Thresh -13.20 dBm

Vid.Bw 1 MHz
RF.Att 10 dB
Unit [dBm]



Start 15 GHz
AS5CMP--25 CAM FCC Conducted Spurious Peak Hold Wide Sweep

Span 1 GHz

Center 15.5 GHz
Channel 283

Sweep 80 ms
48 Watts at CAM 35 @ J4

Stop 16 GHz

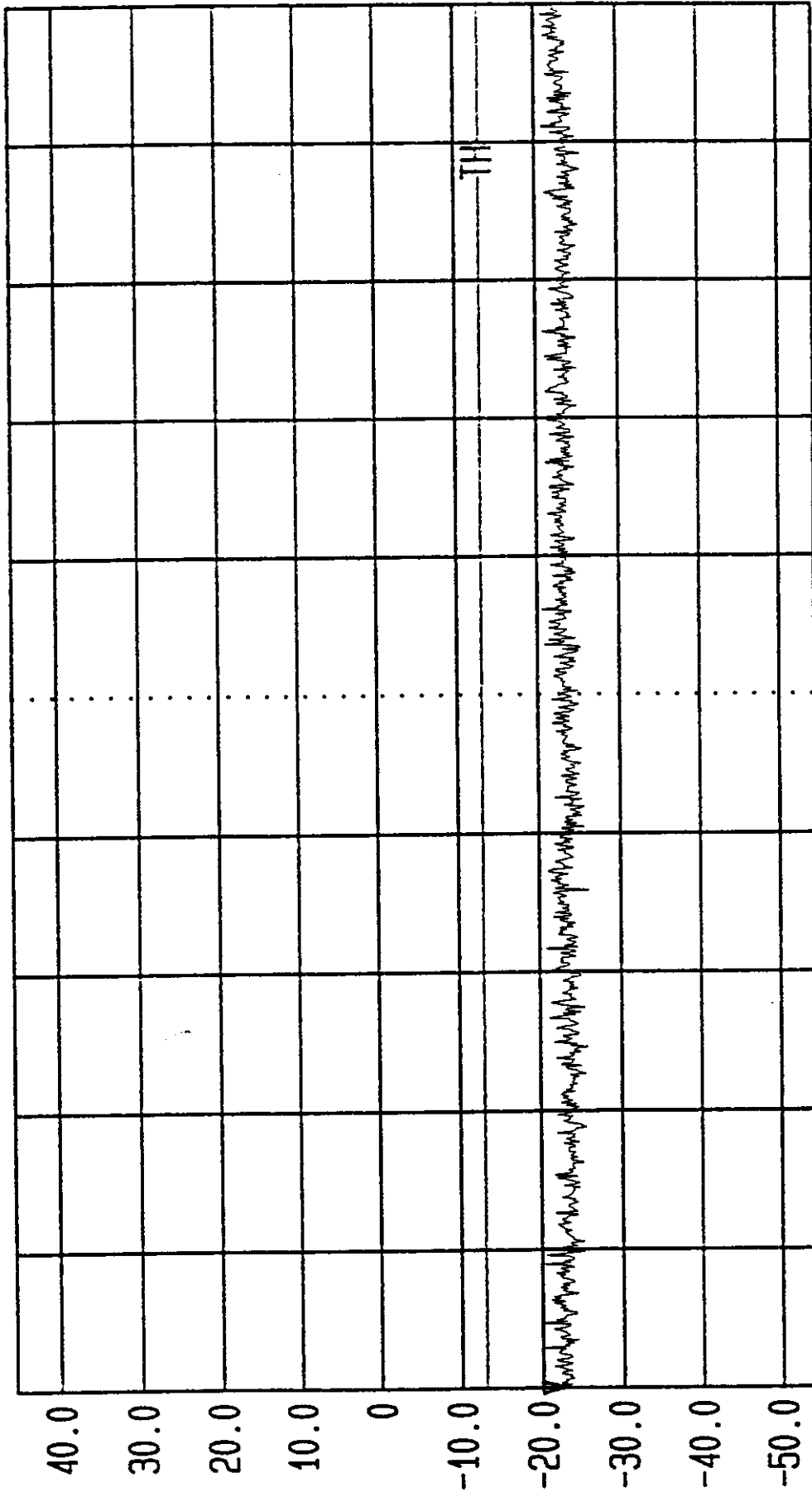


LVLOFF

Date 27.May.'98 Time 05:30:59
Ref.Lvl1 45.40 dBm
Marker -23.06 dBm
16.0000 GHz

Res.Bw 1.0 MHz [3dB]
TG.Lvl1 Off
CF.Stp 100.000 MHz
Thresh -13.20 dBm

Vid.Bw 1 MHz
RF.Att 10 dB
Unit [dBm]



Start 16 GHz
AS5CMP-25 CAM FCC Conducted Spurious
Peak Hold Wide Sweep

Span 1 GHz

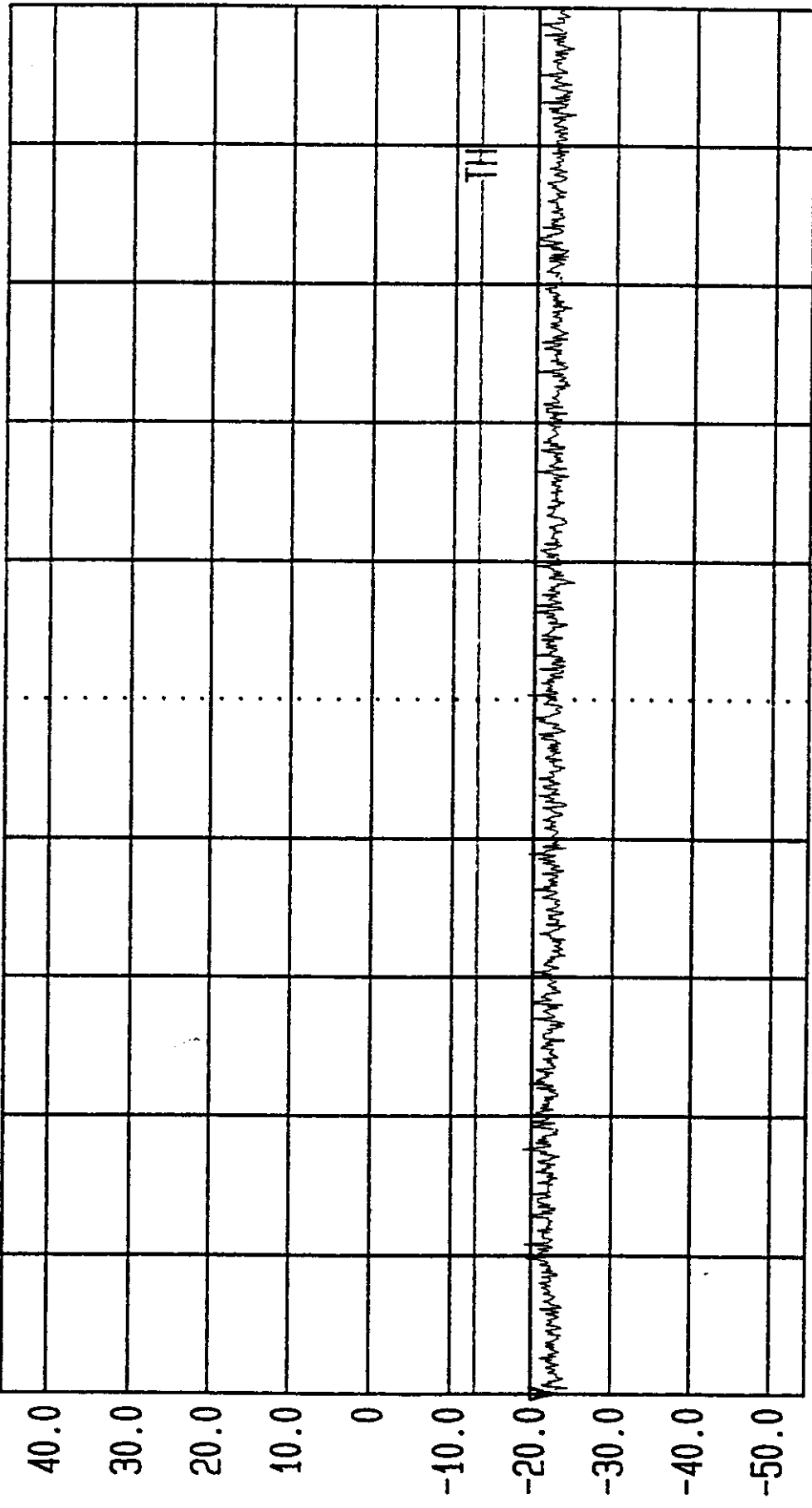
Center 16.5 GHz
Channel 283
48 Watts at CAM 35 @ J4

Sweep 80 ms

Stop 17 GHz



LVLOFF
 Date 27.May.'98 Time 05:34:02
 Ref.Lvl 45.40 dBm
 Marker -23.03 dBm
 17.0000 GHz
 Res.Bw 1.0 MHz [3dB]
 TG.Lvl off
 CF.Stp 100.000 MHz
 Thresh -13.20 dBm
 Vid.Bw 1 MHz
 AF.Att 10 dB
 Unit [dBm]



Start 17 GHz
 Stop 18 GHz
 Span 1 GHz
 Center 17.5 GHz
 Sweep 80 ms
 AS5CMP-25 CAM FCC Conducted Spurious
 Peak Hold Wide Sweep
 48 Watts at CAM 35 @ J4

Exhibit 16**SECTION 2.993****FIELD STRENGTH OF SPURIOUS RADIATION**

Field strength measurements of radiated spurious emissions were made at a ten meter test site (open field) maintained by Lucent Technologies Bell Laboratories Department JW861COO in Whippany, New Jersey. A complete description and full measurement data for the site have been placed on file with the Commission.

The BCR was assembled with an CAM and all other associated equipment in an AUTOPLEX® 850 Compact MiniCell. The spectrum from 10 MHz to the tenth harmonic of the carrier was searched for spurious radiation. Measurements were made using both horizontally and vertically polarized antennas. All emissions more than 20 dB below the specification limit were considered not reportable (Section 2.997).

The calculated emission levels were found by:

$$\begin{aligned} P_{\text{meas}} (\text{dBm}) + \text{Cable Loss (dB)} + \text{Antenna Factor (dB)} + 107 (\text{conv. factor}) \\ = \text{Field Strength (dBmicroV/m)} \end{aligned}$$

Section 22.907 contains the requirements for the levels of spurious radiation as a function of the level of the unmodulated carrier. The reference level for the unmodulated carrier is calculated as the field produced by an ideal dipole excited by the transmitter output power according to the following relation taken from Reference Data for Radio Engineers, page 676, 4th edition, IT&T Corp.

$$E = [(49.2P)\exp(1/2)] / R$$

$$20 \log (E * 10\exp(6)) - (43 + 10 \log P) = 73.9 \text{ dB microV/meter}$$

E = Field Intensity in Volts/ meter

P = Transmitted Power in watts = 16 W

R = Distance in meters = 10 m

RESULTS:

For this particular test, the field strength of any spurious radiation is required to be less than 73.9 dB microV/meter. Reportable measurements are equal to or greater than 53.9 dB microV/meter. Over the spectrum investigated, 15 MHz to tenth harmonic of the carrier, no reportable spurious emissions were detected. This demonstrates that the CDMA Amplifier Module (CAM), the subject of this application, complies with Sections 2.993, 22.907 and 2.997 of the Rules.

Exhibit 17

SECTION 2.995

MEASUREMENT OF FREQUENCY STABILITY

RESPONSE:

The frequency stabilization and accuracy of the CDMA signal amplified by the CAM is a function of the input signal which is provided by the BCR (FCC ID: AS5CMP-21). The Reference Frequency Timing Generator (RFTG-m) is the GPS locked signal source used for frequency lock by the BCR and was previously reported for FCC ID: AS5CMP-12 and AS5CMP-21. The Reference Frequency Timing Generator (RFTG-m) is being replaced in all Lucent CDMA equipment by either the RFTG-m-II or the RFTG-U. The RFTG-m-II is an RFTG-m unit whose output amplifier is adjusted to provide an additional +6dB increase in amplitude of the output timing signal. The signal level is then reduced via a signal coupler to provide the same signal level for distribution throughout the equipment. This modification was performed in order to provide a reliable signal to a greater number of co-located equipment. The RFTG-U is a new design which uses the same Rubidium reference oscillator as the RFTG-m equipment. Both devices meet the frequency stability requirements necessary for AUTOPLEX ® system compliance with FCC Rules for frequency stability. These devices are compliant with FCC Part 15 rules when powered by and installed in Lucent Technologies cabinets.

The following data shows frequency stability tests for the RFTG-U.

10 MHz Frequency and Power Variations Over Temperature (Locked to GPS)

REF 0 (Primary)

Temperature (deg. C)	Max. Freq Deviation (Parts per Billion)
0	0.54
10	0.11
20	0.10
30	0.07
40	0.09
50	0.13
60	0.56
65	2.14
Spec	50.00
Result	Pass

REF 0 (Primary)

Temperature (deg. C)	Power (dBm)	
	Maximum	Minimum
0	23.40	23.39
10	23.44	23.44
20	23.45	23.45
30	23.42	23.41
40	23.35	23.35
50	23.29	23.28
60	23.20	23.20
65	23.17	23.17
Spec	25.00	21.00
Result	Pass	Pass

REF 2 (Secondary)

Temperature (deg. C)	Max. Freq Deviation (Parts per Billion)
0	0.40
10	0.05
20	0.04
30	0.13
40	0.05
50	0.05
60	0.02
65	0.03
Spec	50.00
Result	Pass

REF 1 (Secondary)

Temperature (deg. C)	Power (dBm)	
	Maximum	Minimum
0	23.40	23.39
10	23.45	23.44
20	23.48	23.47
30	23.46	23.46
40	23.41	23.40
50	23.35	23.34
60	23.27	23.26
65	23.24	23.24
Spec	25.00	21.00
Result	Pass	Pass

Note: All tabulated results are computed from 10 measurements taken at the corresponding voltage.

10 MHz Frequency and Power Variations Over Temperature (Not Locked to GPS)

REF 0 (Primary)

Temperature (deg. C)	Max. Freq Deviation (Parts per Billion)
0	0.23
10	0.33
20	0.34
30	0.35
40	0.48
50	0.55
60	0.66
65	2.44
Spec	50.00
Result	Pass

REF 0 (Primary)

Temperature (deg. C)	Power (dBm)	
	Maximum	Minimum
0	23.16	23.15
10	23.16	23.16
20	23.16	23.15
30	23.13	23.12
40	23.07	23.06
50	22.99	22.98
60	22.92	22.90
65	23.18	23.18
Spec	25.00	21.00
Result	Pass	Pass

REF 2 (Secondary)

Temperature (deg. C)	Max. Freq Deviation (Parts per Billion)
0	0.26
10	0.39
20	0.39
30	0.63
40	0.55
50	0.63
60	0.72
65	2.60
Spec	50.00
Result	Pass

REF 1 (Secondary)

Temperature (deg. C)	Power (dBm)	
	Maximum	Minimum
0	23.15	23.12
10	23.17	23.17
20	23.19	23.18
30	23.16	23.16
40	23.11	23.10
50	23.03	23.02
60	22.96	22.95
65	23.26	23.25
Spec	25.00	21.00
Result	Pass	Pass

Note: All tabulated results are computed from 10 measurements taken at the corresponding voltage.

10 MHz Frequency and Power Variations Over Voltage (@ 25 deg. C & Not Locked to GPS)

REF 0 (Primary)

Voltage (VDC)	Max. Freq Deviation (Parts per Billion)
19	1.01
20	0.97
21	0.88
22	0.86
23	0.83
24	0.84
25	0.84
26	0.81
27	0.81
28	0.81
29	0.80
30	0.80
31	0.83
32	0.85
Spec	50.00
Result	Pass

REF 0 (Primary)

Voltage (VDC)	Power (dBm)	
	Maximum	Minimum
19	23.42	23.41
20	23.42	23.41
21	23.42	23.42
22	23.42	23.42
23	23.42	23.42
24	23.42	23.42
25	23.42	23.42
26	23.42	23.42
27	23.42	23.42
28	23.42	23.42
29	23.42	23.42
30	23.42	23.42
31	23.42	23.42
32	23.42	23.42
Spec	25.00	21.00
Result	Pass	Pass

REF 1 (Secondary)

Voltage (VDC)	Max. Freq Deviation (Parts per Billion)
19	0.80
20	0.75
21	0.95
22	0.87
23	0.90
24	0.92
25	0.89
26	0.88
27	0.88
28	0.84
29	0.86
30	0.87
31	0.87
32	0.93
Spec	50.00
Result	Pass

REF 1 (Secondary)

Voltage (VDC)	Power (dBm)	
	Maximum	Minimum
19	23.44	23.43
20	23.42	23.43
21	23.42	23.43
22	23.42	23.43
23	23.42	23.43
24	23.42	23.44
25	23.42	23.44
26	23.42	23.44
27	23.42	23.44
28	23.42	23.44
29	23.42	23.44
30	23.42	23.44
31	23.42	23.44
32	23.44	23.44
Spec	25.00	21.00
Result	Pass	Pass

Note: All tabulated results are computed from 10 measurements taken at the corresponding voltage.