



MOTOROLA

Network Systems Group
CDMA Systems Division

SECTION D

FCC ID: IHET5AP1

SPURIOUS & HARMONIC EMISSIONS CONDUCTED

CDMA Transmitter Channel 777

Maximum Power

CFR Port 22 fo=893.31 HF HP

Conducted Spurious RF Emission

MOTOROLA

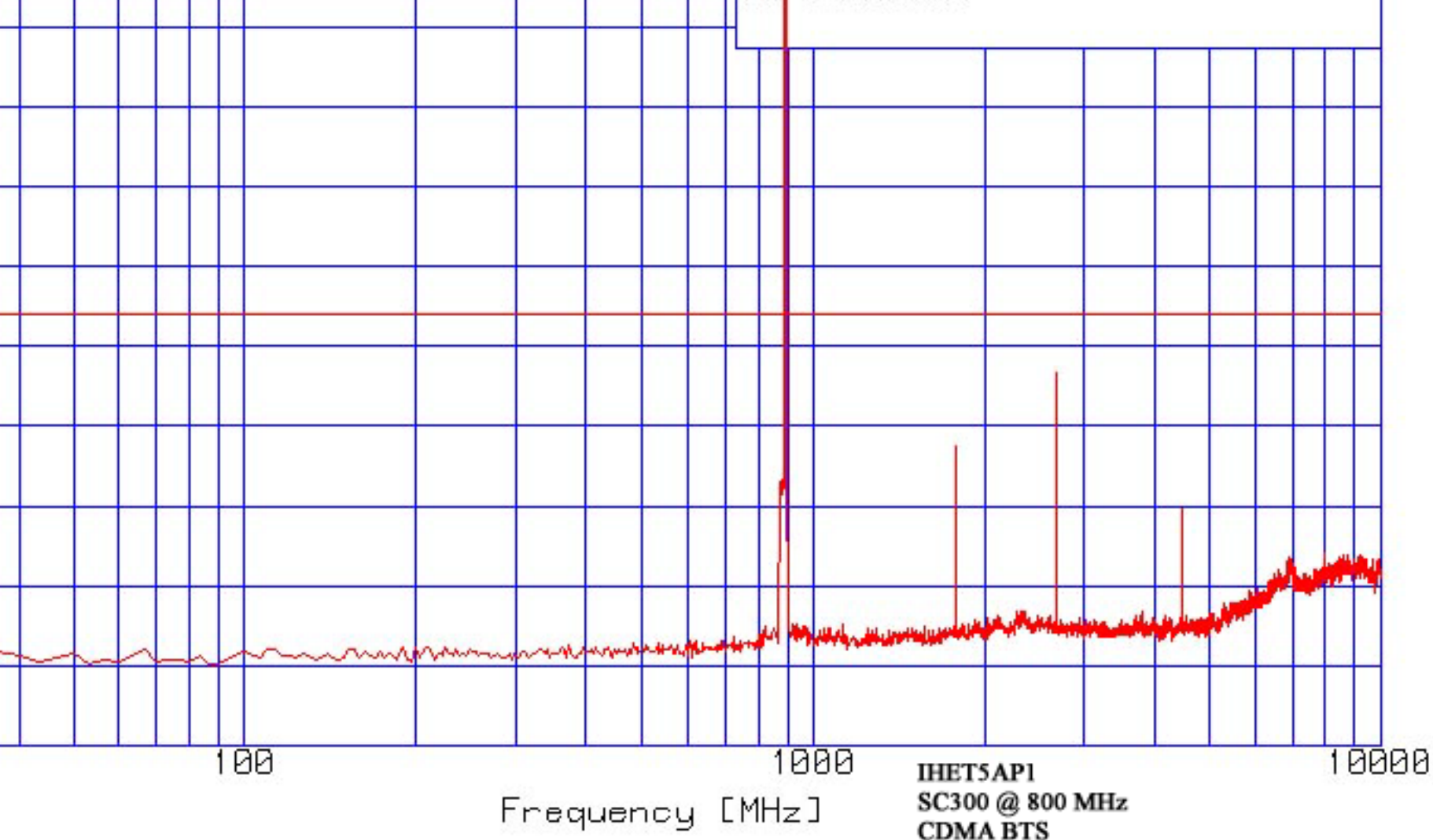
SGNL5739A_777_40

120V, 60 Hz

G
HP 10W

891.33 - 895.29 MHz

Fo=893.31MHz



CFR Part 22 fo=893.31 HF HP

Conducted Spurious RF Emission

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SGNL5739A_777_40

120V, 60 Hz

891.33 - 895.29 MHz

Fo=893.31MHz

G
HP 10W

dB[μV/m]

160

140

120

100

80

60

889

901

IHET5AP1
SC300 @ 800 MHz
CDMA BTS

Frequency [MHz]



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CDMA Transmitter Channel 777

Minimum Power

CFR Part 22 fo=893.31 HF LP

Conducted Spurious RF Emission

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SGNL5739A_777_23

120V, 60 Hz

H
LP 200mW

891.33 - 895.29 MHz

Fo=893.31MHz

dB[μV/m]

30

100

1000

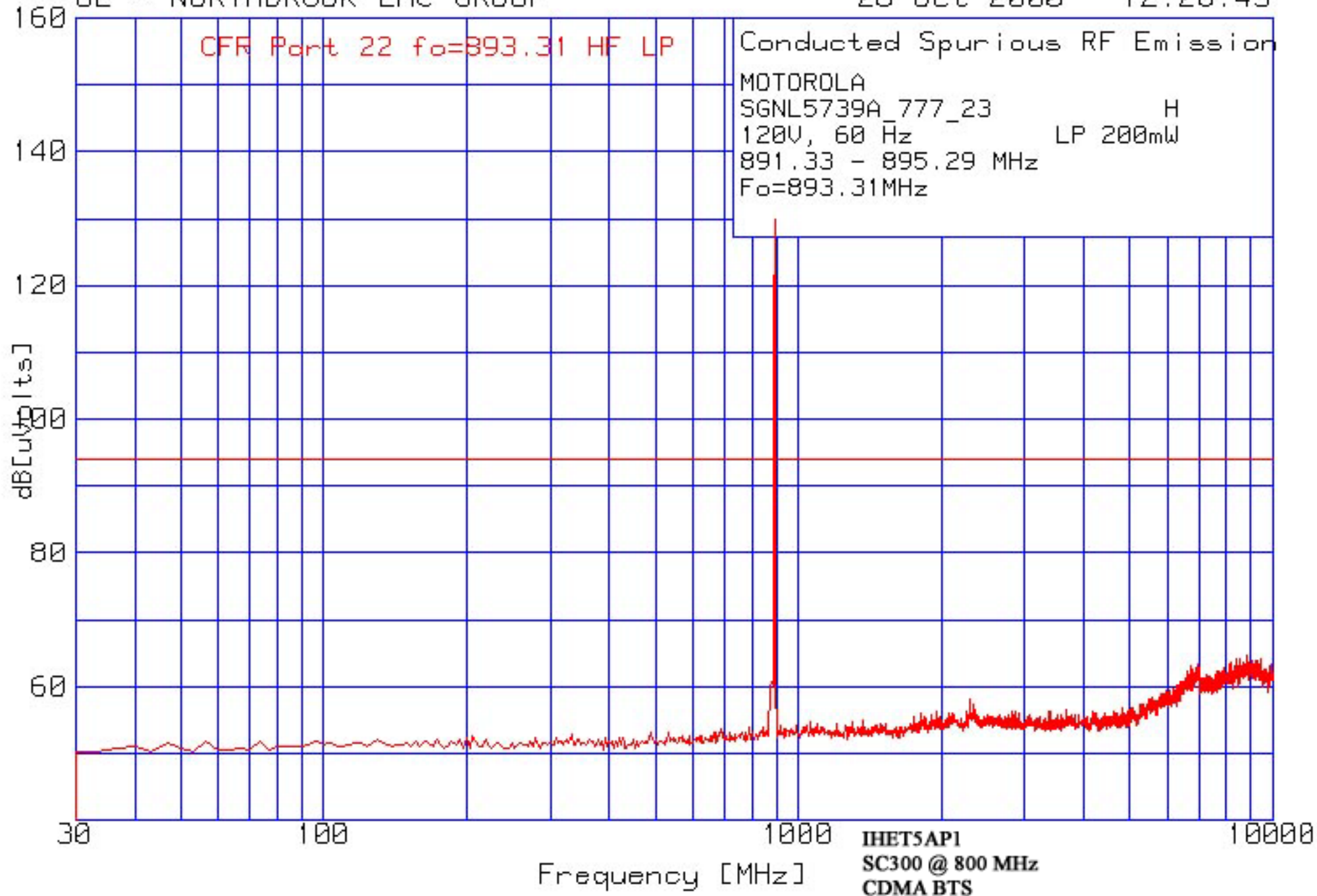
10000

Frequency [MHz]

IHETSAPI

SC300 @ 800 MHz

CDMA BTS



CFR Part 22 fo=893.31 HF LP

Conducted Spurious RF Emission

MOTOROLA

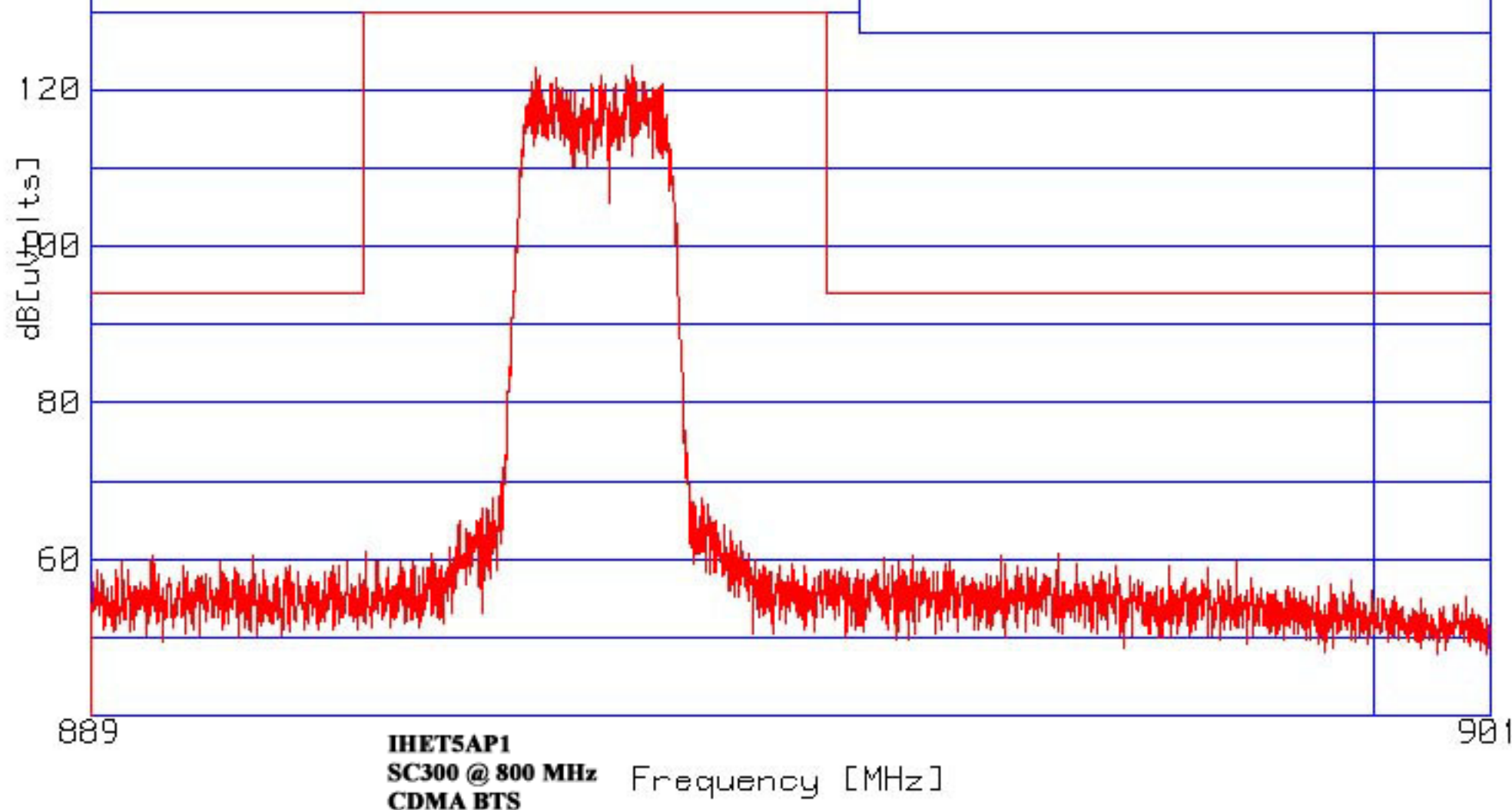
SGNL5739A_777_23

120V, 60 Hz

H
LP 200mW

891.33 - 895.29 MHz

Fo=893.31MHz





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SECTION E

OCCUPIED BANDWIDTH

NOTE: The occupied bandwidth plots are measured in a 30 kHz resolution bandwidth. The following formula is used to obtain the correct zero dB reference point relative to the bandwidth of the 1.2288 MHz CDMA signal.

$$\text{Power(measured in 30 kHz bandwidth)} + 10 \log\left(\frac{1.2288\text{MHz}}{30\text{kHz}}\right)$$

Example: 30.49 dBm + 16.12 dB ≈ 46.61 dBm

The output power was set to 46.5 dBm using an HP438A power meter.



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Cellular Infrastructure Group

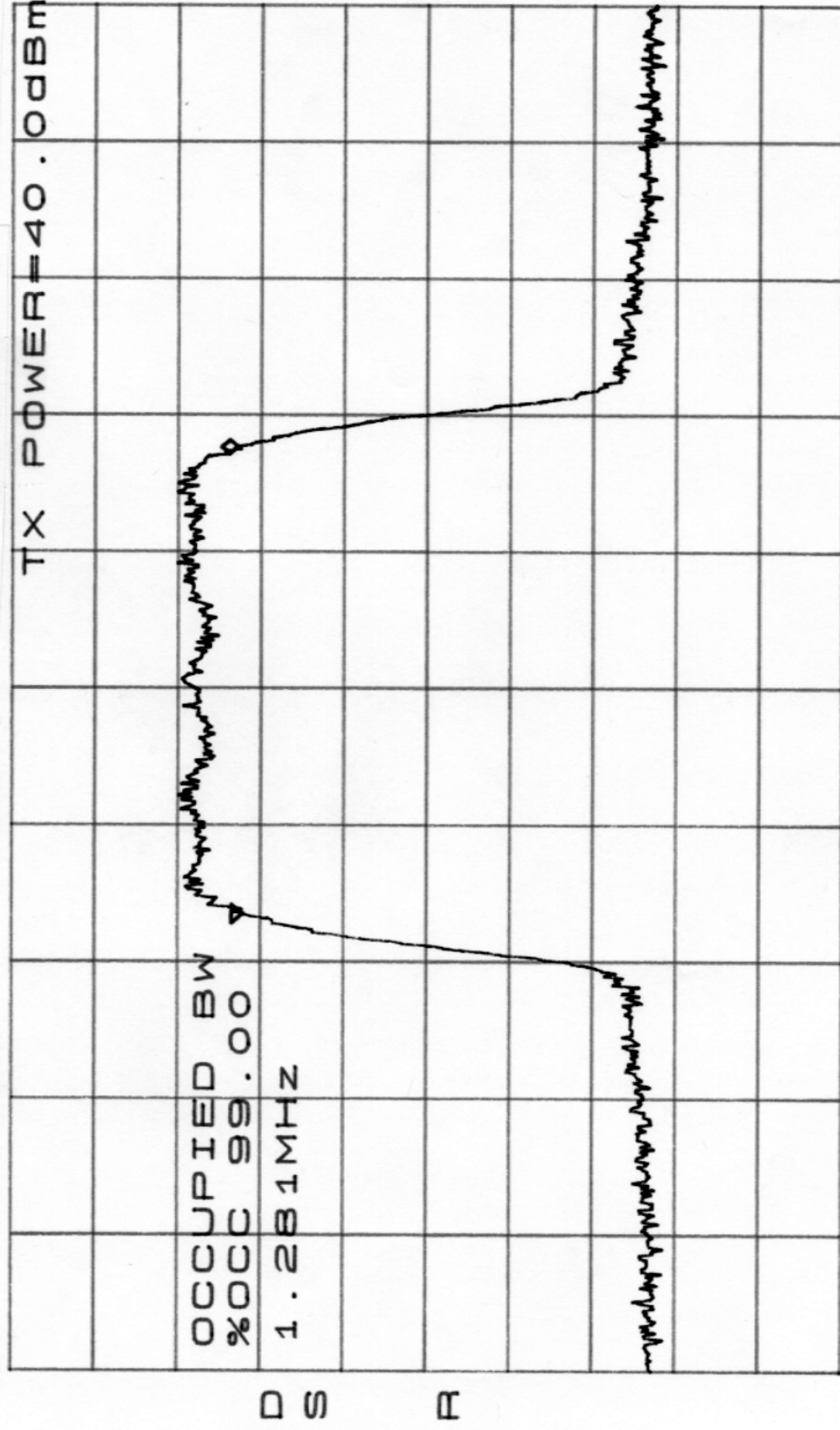
FCC ID: IHET5AP1

SECTION E

Occupied Bandwidth

Maximum Power

*ATTEN 40dB VAVG 200 Channel 1013 IHET5AP1
RL 45.0dBm 10dB/ 869.70 MHz SC300 @800 MHz
Maximum Power CDMA BTS

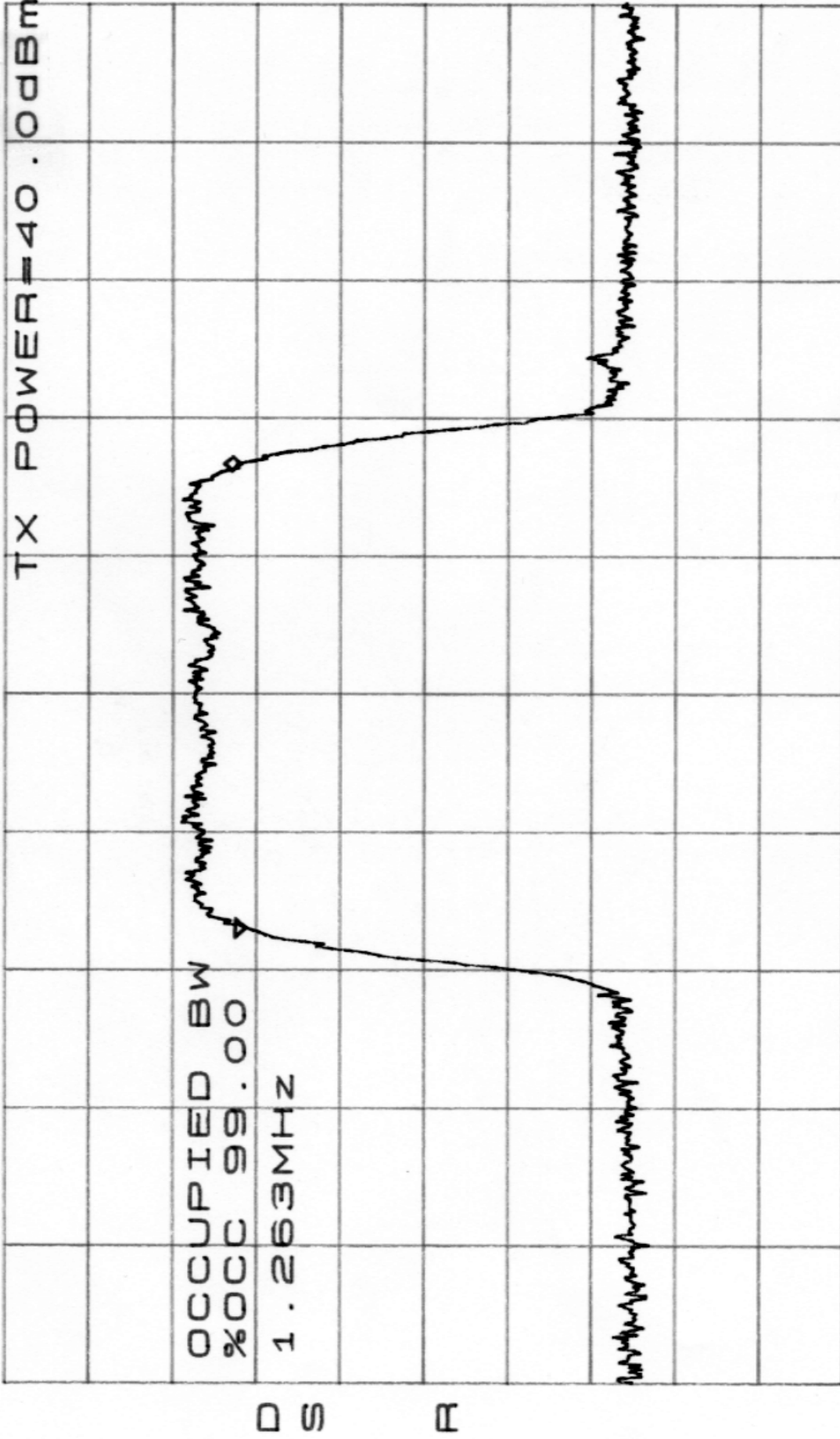


CENTER 869.700MHz SPAN 3.750MHz
RBW 30kHz VBW 30kHz SWP 50.0ms

*ATTEN 40dB VAVG 100
RL 45.0dBm 10dB/

Channel 777
893.31 MHz
Maximum Power

IHET5AP1
SC300 @800 MHz
CDMA BTS



CENTER 893.310MHz VBW 30kHz

SPAN 3.750MHz SWP 50.0ms



MOTOROLA

Cellular Infrastructure Group

FCC ID: IHET5AP1

Occupied Bandwidth

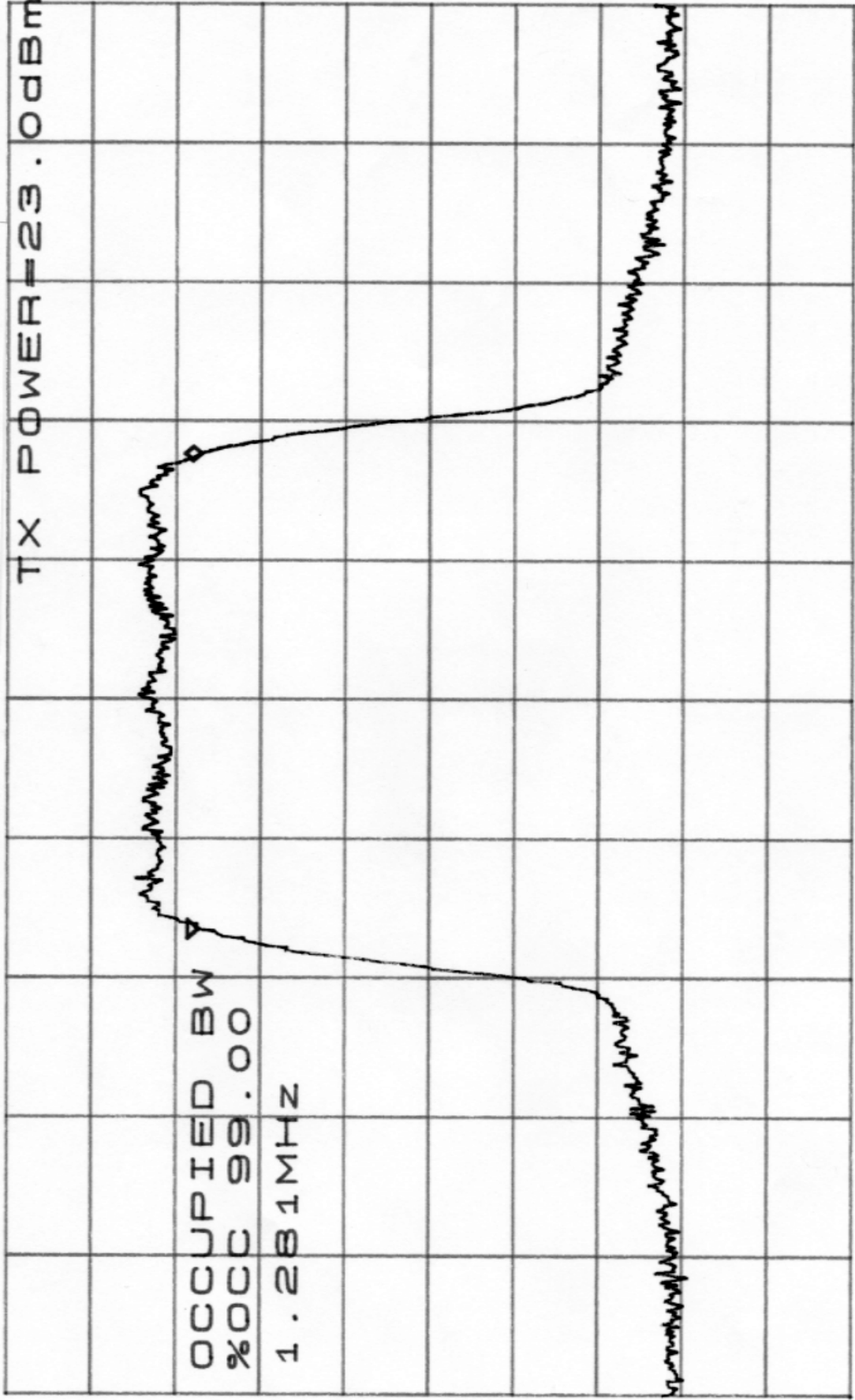
Minimum Power

IHET5AP1
SC300 @800 MHz
CDMA BTS

Channel 1013
869.70 MHz
Minimum Power

VAVG 200
10dB/

*ATTEN 10dB
RL 24.0dBm



SPAN 3.750MHz
SWP 50.0ms

CENTER 869.700MHz
RBW 30kHz
VBW 30kHz

ATTEN 10dB
RL 24.0dBm

VAVG 100
10dB/

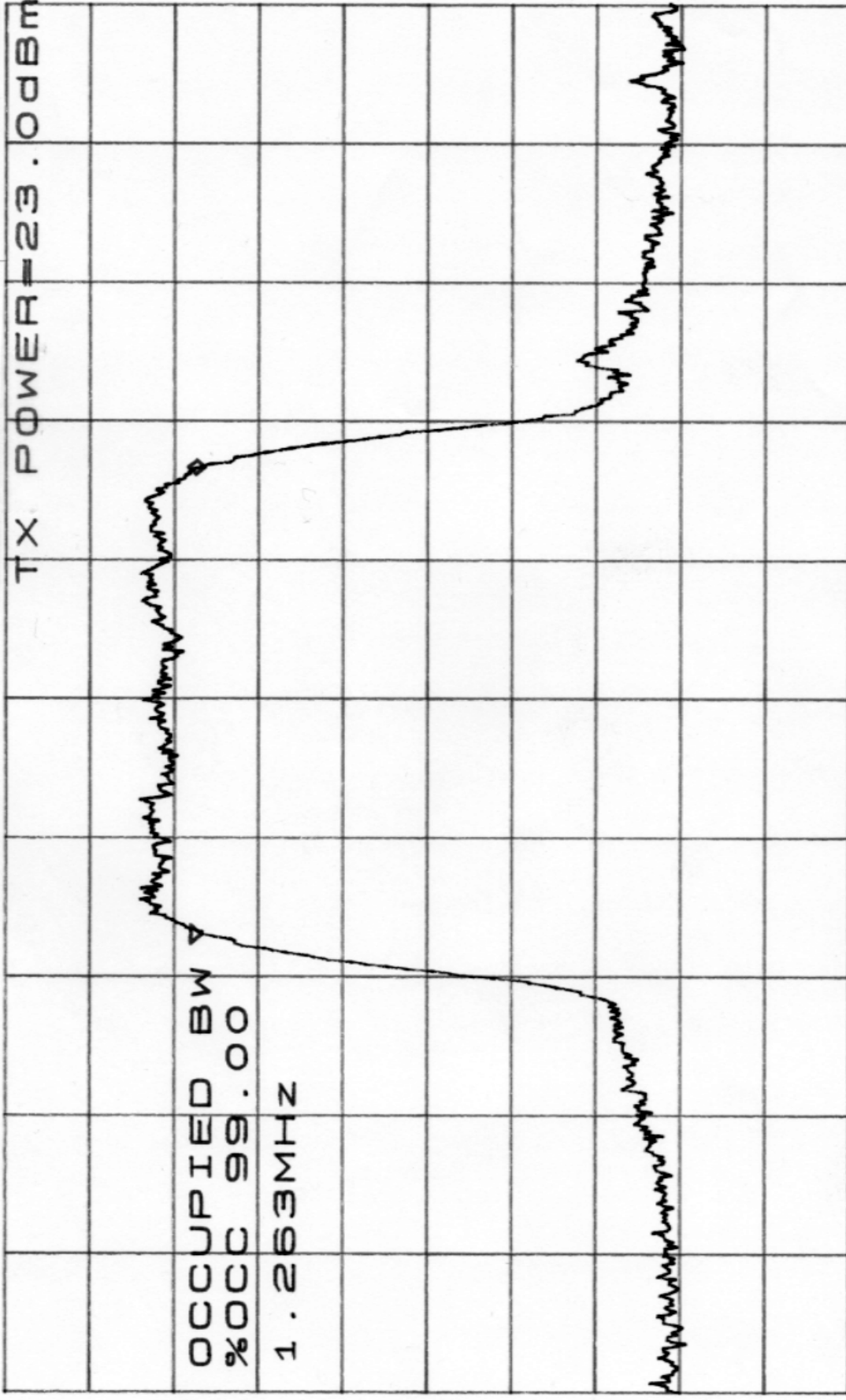
Channel 777
893.31 MHz
Minimum Power

IHET5AP1
SC300 @800 MHz
CDMA BTS

TX POWER=23.0dBm

OCCUPIED BW
%OCC 99.00
1.263MHz

DS
F



CENTER 893.310MHz
RBW 30kHz

VBW 30kHz

SPAN 3.750MHz
SWP 50.0ms



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SECTION F

FREQUENCY STABILITY

