

**Federal Communications Commission
Office of Engineering and Technology
Equipment Authorization Division
Application Processing Branch
7435 Oakland Mills Road
Columbia, MD 21046**

Lucent Technologies Inc.
101 Crawfords Corner Road
Holmdel, NJ 07733-3030

November 16, 1999

**Reference: FCC ID: AS5BTS2K-01
Applicant: Lucent Technologies Inc.
731 Confirmation Number: EA95365
Correspondence Number: 10554**

Dear Examiner:

With reference to your email correspondence Reference No: 10554, I would like to submit additional information on FCC ID: AS5BTS2K-01 for type approval of GSM 1900 Transceiver, answering questions in the sequence they have been asked.

Item 1: The data demonstrates noncompliance if the EUT is tuned to channels 200 kHz from frequency block edges. Compliance at channels 400 kHz from frequency block edges is unclear (many plots were taken at channels 600 kHz from block edges). What is the actual, intended, tuning range of the EUT? How will this tuning range be ensured?

Response: The cover pages for Occupied Bandwidth and Antenna Conducted Spurious Emission for Block A Channel 513, there is a typographical error. The frequency for Channel 513 was stated 1930.6 MHz instead of 1930.4 MHz. The plots show correct frequency (1930.4 MHz).

The tuning range for EUT is 1930.2 to 1989.8MHz. The channel allocation plan for GSM is attached. The channels highlighted are not available under software control which is not modifiable by the user.

Item 2: What is the actual, measured occupied bandwidth?

Response: Extra plots showing Occupied Bandwidth at 99% of power at the middle of each Block is attached. Measurements were made using HP 8563E Spectrum Analyzer designed to measure 99% power bandwidth. The measured 99% power bandwidth is 240 to 244 kHz.

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Item 3: Section 24.238(b) requires that a RBW of at least 1% of the emission bandwidth be used to demonstrate RF conducted out-of-band emission compliance at the frequency block edges. A RBW of 10 kHz was used. These bandedge measurements may have to be remade, depending on the answer to (2) above. For GSM emissions, the typical RBW used is 30 kHz. Please note Section 24.238(c).

Response: See response to item 2 above.

Item 4: Please submit a letter specifying those exhibits for which confidential treatment is sought. Justification must be provided for atypical requests, e.g., internal photos and user's manual.

Response: Letter attached.

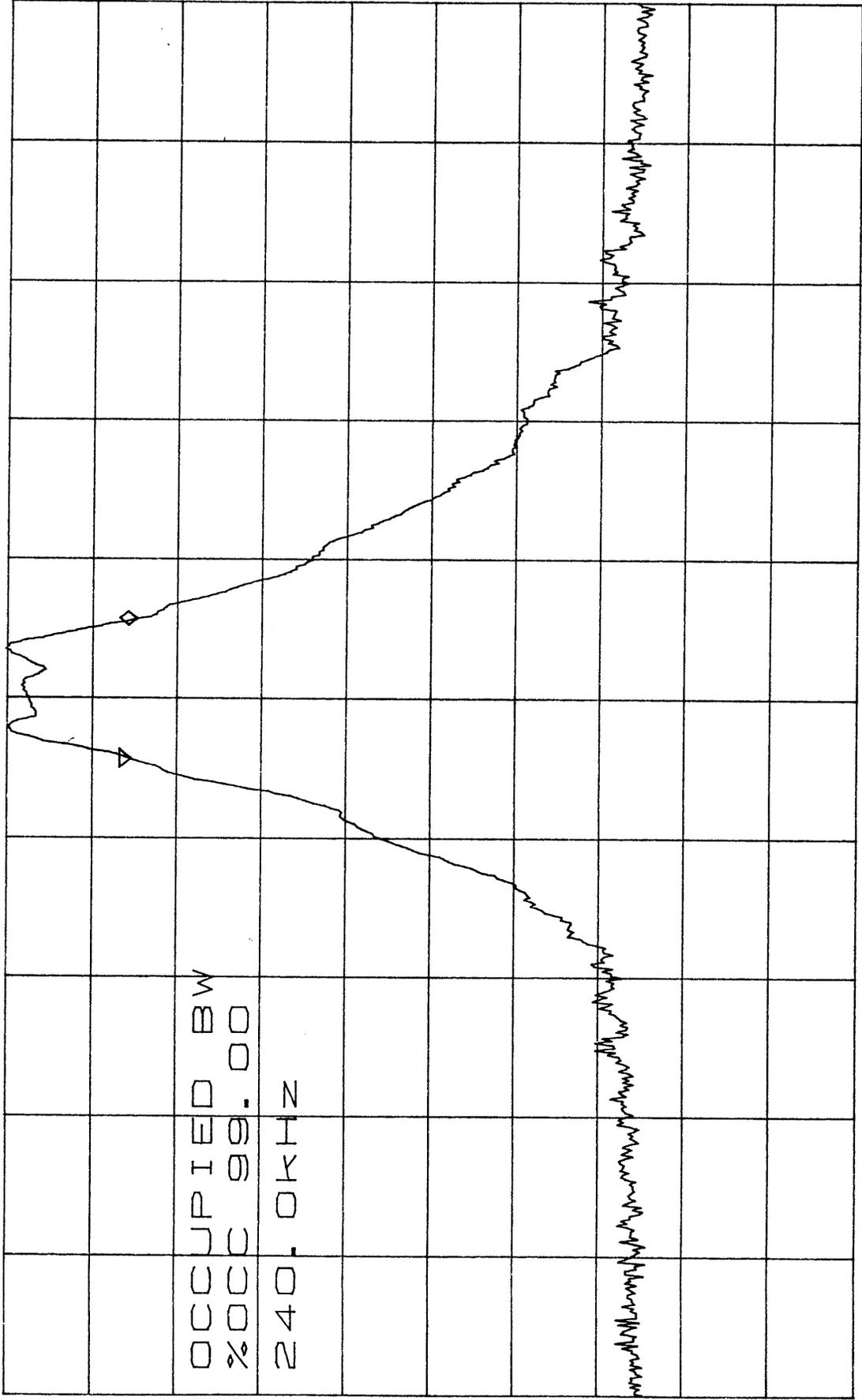
Item 5: FYI: the field strength limit for radiated spurious emissions is 71.7 dB μ V/m at 10m, and not the value used. The limit is based on the EIRP, not the ERP.

Response: The Measured Field Strength levels at 10m distance were 20 dB lower than 71.7 dB μ V/m.



Dheena Moongilan
Distinguished Member of Technical Staff
Bldg. 11B, Room 184

ATTEN 20dB
RL 44.6dBm
 Δ MKR - .67dB
240kHz

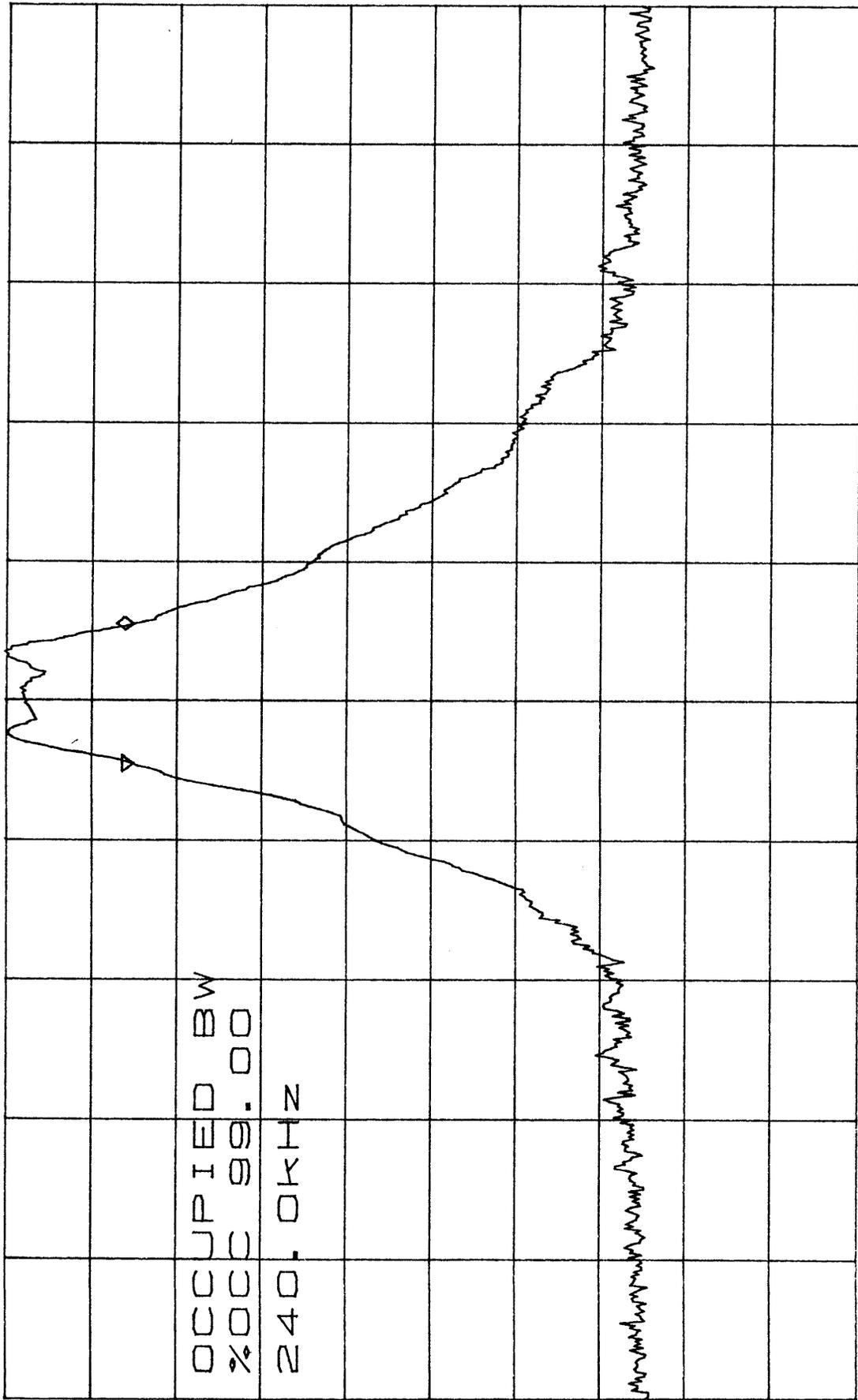


D R

CENTER 1.937600GHZ
RBW 30KHZ
SPAN 2.400MHZ
VBW 30KHZ
SWP 50.0ms

BLOCK A: Channel: 549

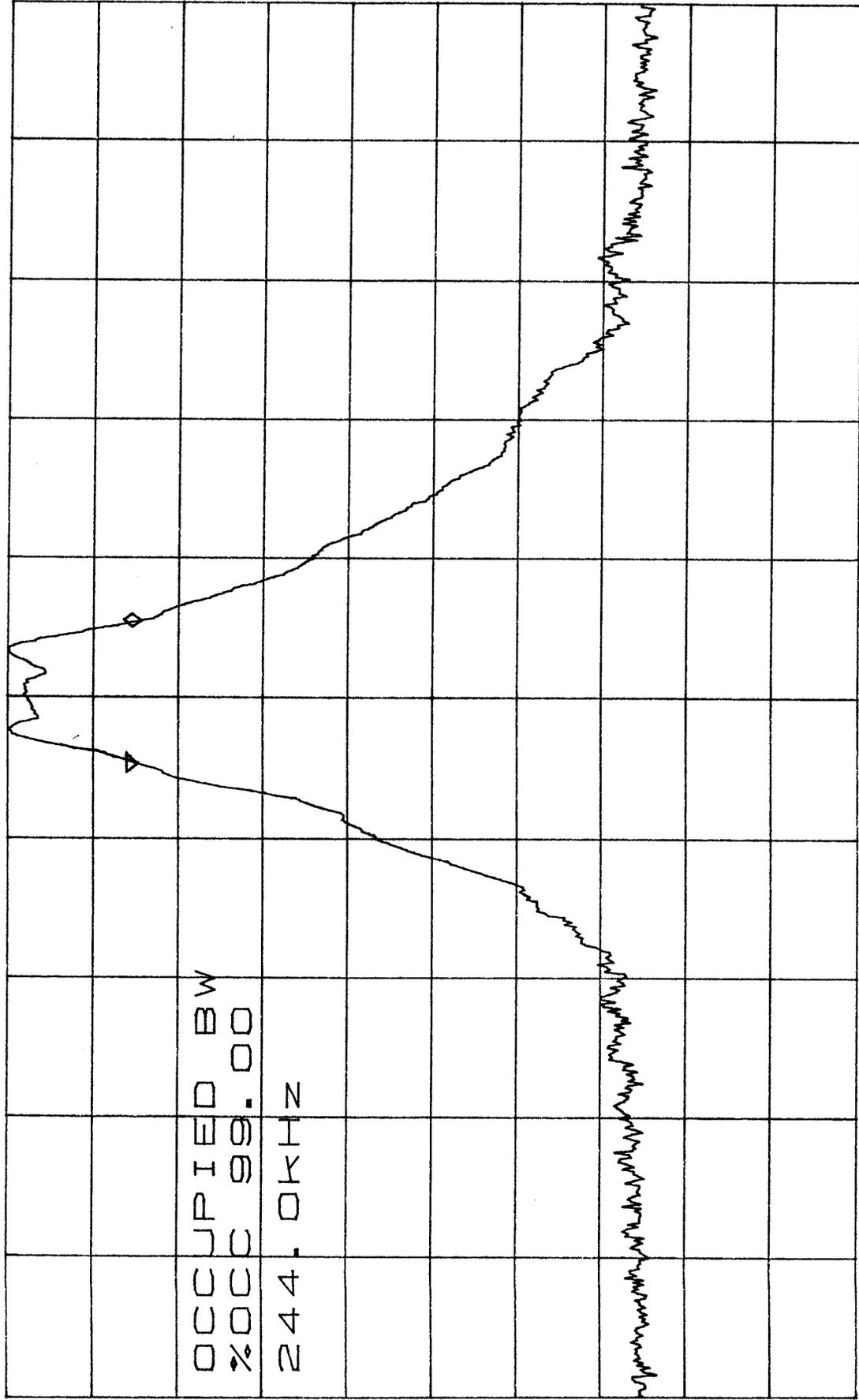
ATTEN 20dB
RL 44.6dBm
ΔMKR 0dB
240kHz
10dB/



CENTER 1.957600GHz
RBW 30kHz
SPAN 2.400MHz
VBW 30kHz
SWP 50.0ms

ATTEN 20dB
RL 44.6dBm

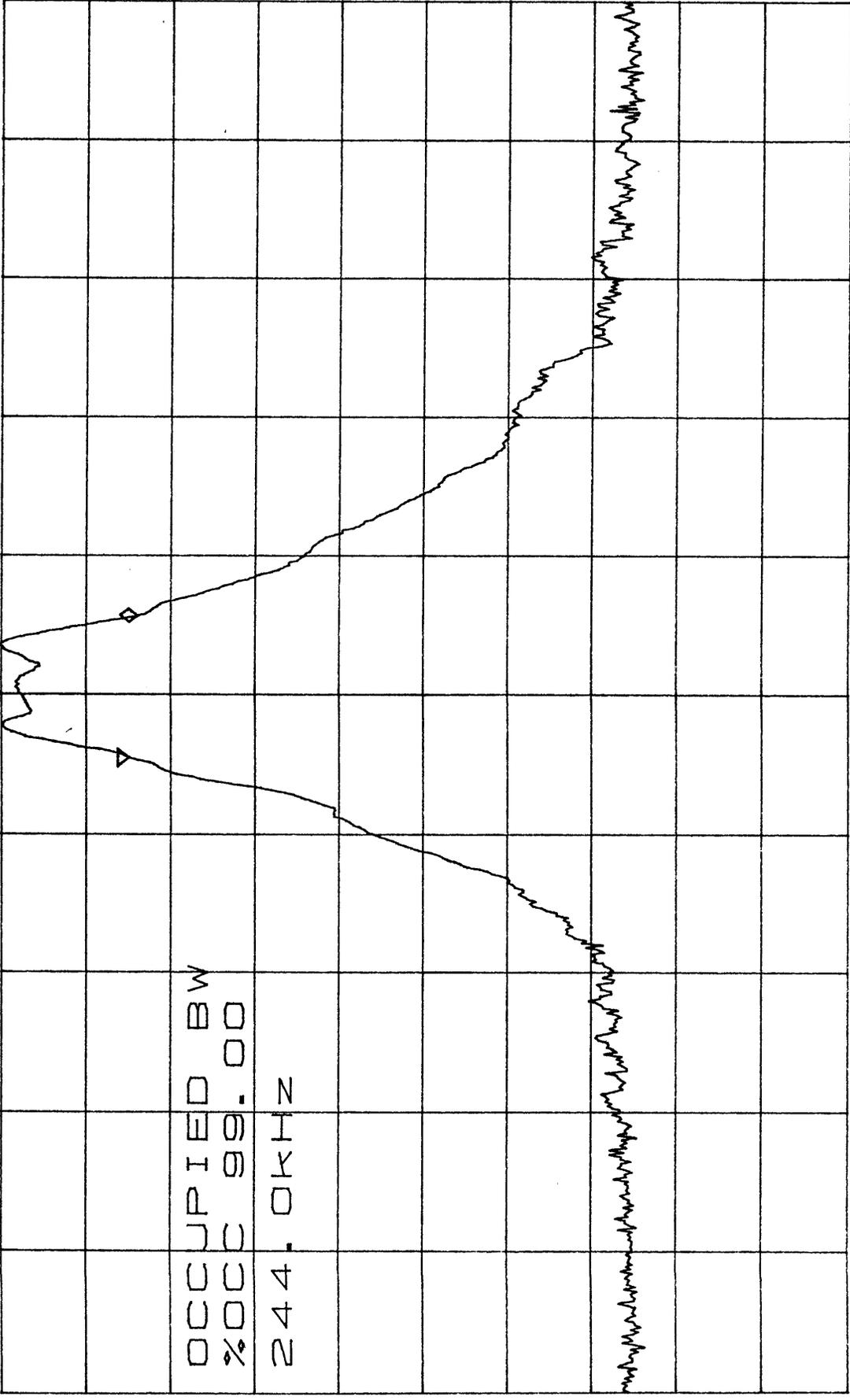
ΔMKR - .33dB
244kHz



D R

CENTER 1.984600GHZ
RBW 30KHZ
SPAN 2.400MHZ
VBW 30KHZ
SWP 50.0ms

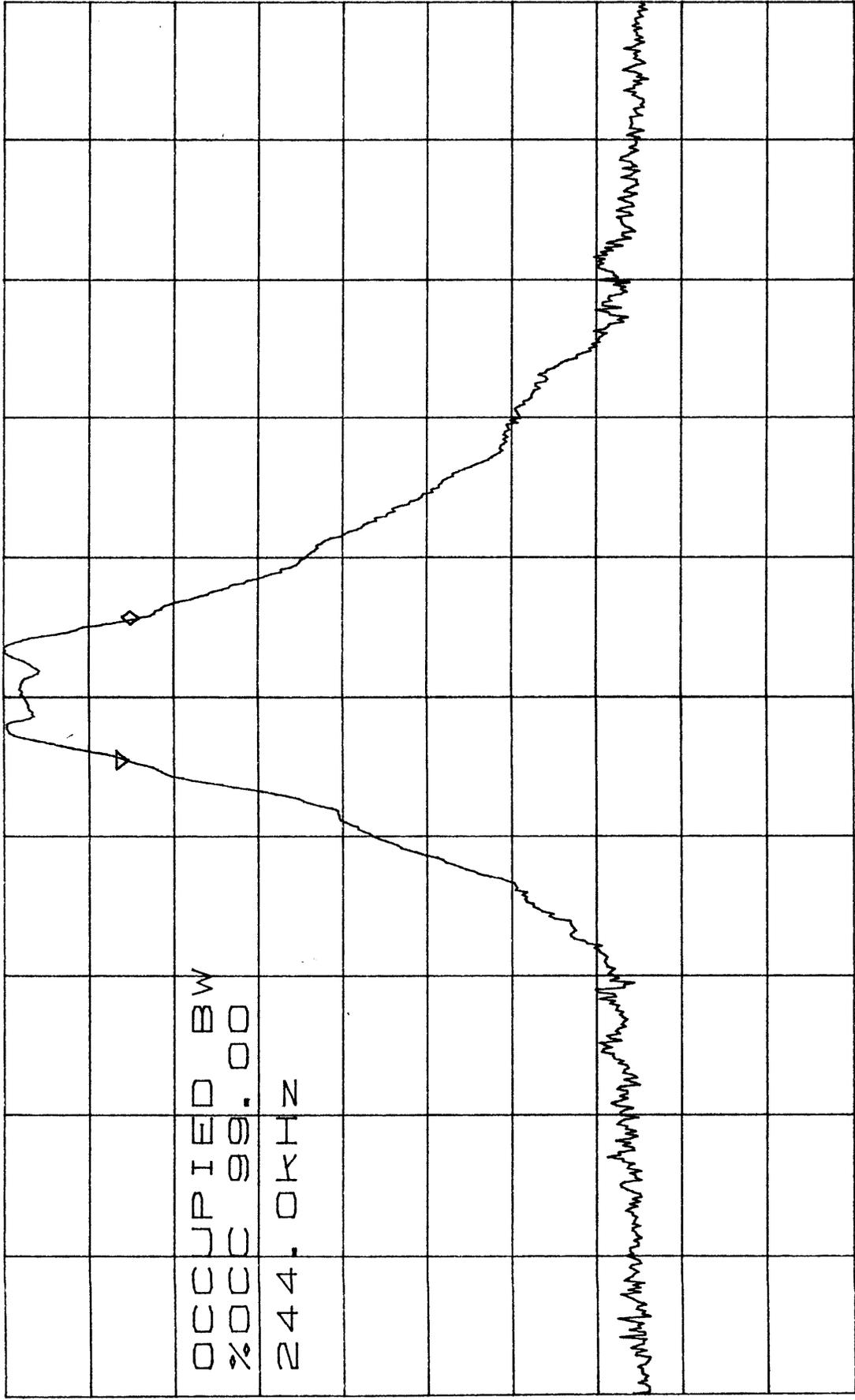
ATTEN 20dB
RL 44.6dBm
 Δ MKR -1.00dB
244KHZ



D R

CENTER 1.947600GHZ
RBW 30KHZ
SPAN 2.400MHZ
VBW 30KHZ
SWP 50.0ms

ATTEN 20dB
RL 44.6dBm
 Δ MKR -1.33dB
244kHz



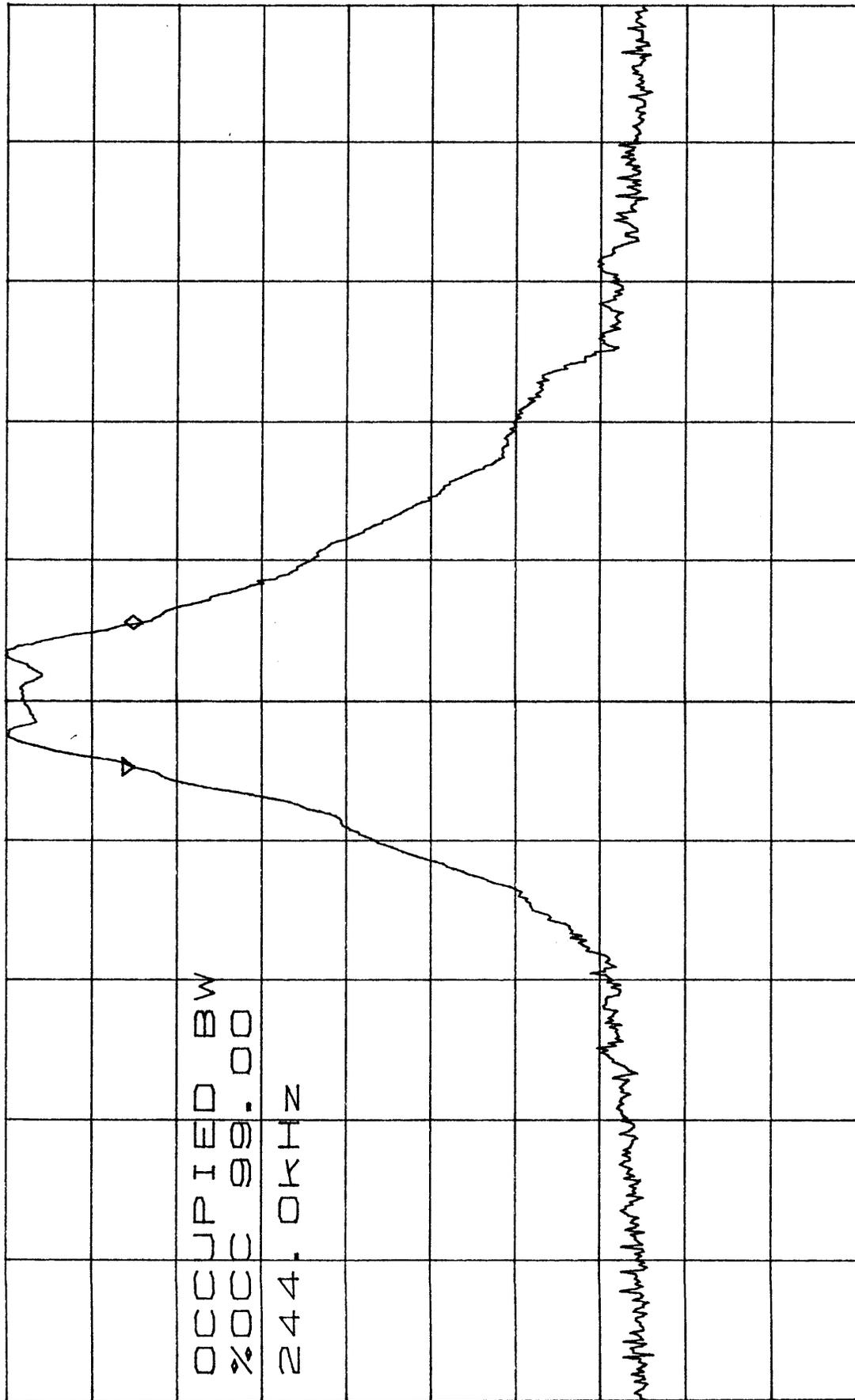
CENTER 1.967600GHZ
SPAN 2.400MHZ
RBW 30kHz
VBW 30kHz
SWP 50.0ms

ATTEN 20dB

RL 44.6dBm

ΔMKR -1.00dB

244kHz



OCCUPIED BW
% OCC 99.00
244.0 KHZ

CENTER 1.972600GHZ

SPAN 2.400MHZ

RBW 30KHZ

SWP 50.0ms

BLOCK: F, Channel: 724



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**Subject: Confidential Treatment for User's Manual and Internal Photos –
FCC ID: AS5BTS2K-01**

Dear Examiner:

The 'GSM 1900 Transceiver' FCC ID AS5BTS2K-01 will not be sold to the general public, but restricted to network operators. The 'User's Manual' is provided to the network operators under a non-disclosure agreement. The Lucent Technologies holds the proprietary rights of equipment construction. The general public does not have access to either User's Manual or Internal Construction of GSM 1900 transceiver. Therefore I would like to request you to treat the following as confidential.

- (1) User's Manual
- (2) Internal photos

Sincerely,

Dheena Moongilan
Distinguished Member of Technical Staff
Bldg. 11B, Room 184