

Date: April 19, 2000  
Tested by: Hung Trinh

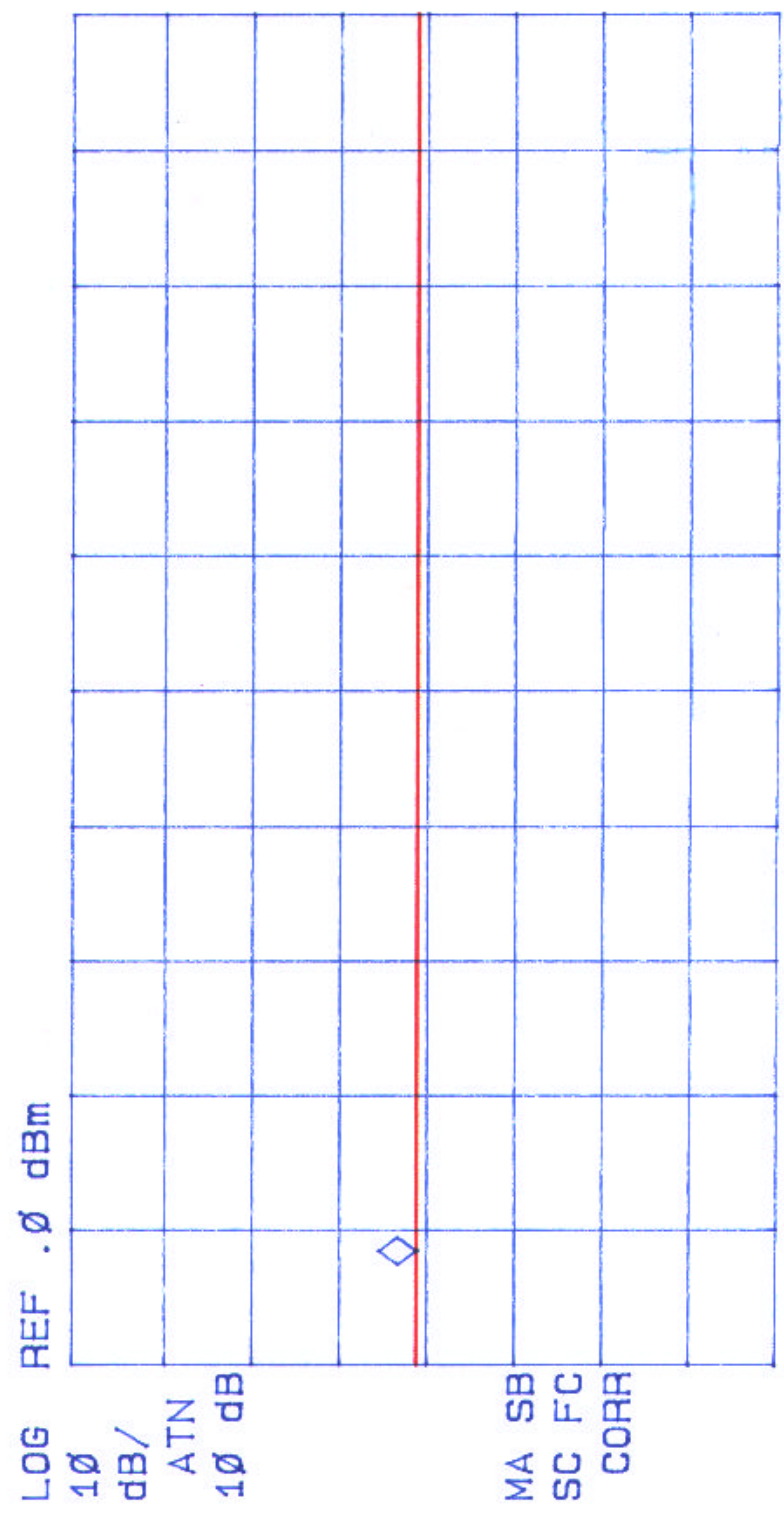
KAVAL TELECOM INC.  
BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz  
403-512 MHz Amplifier gain response within  $Fo \pm 2.5B$   
*RF INPUT TRACKING SIGNAL*



770

REF LEVEL  
.0 dBm

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 385.38 MHz  
-39.21 dBm



CENTER 406.13 MHz  
IF BW 120 kHz  
AVG BW 300 kHz  
SPAN 50.00 MHz  
SWP 20.0 msec



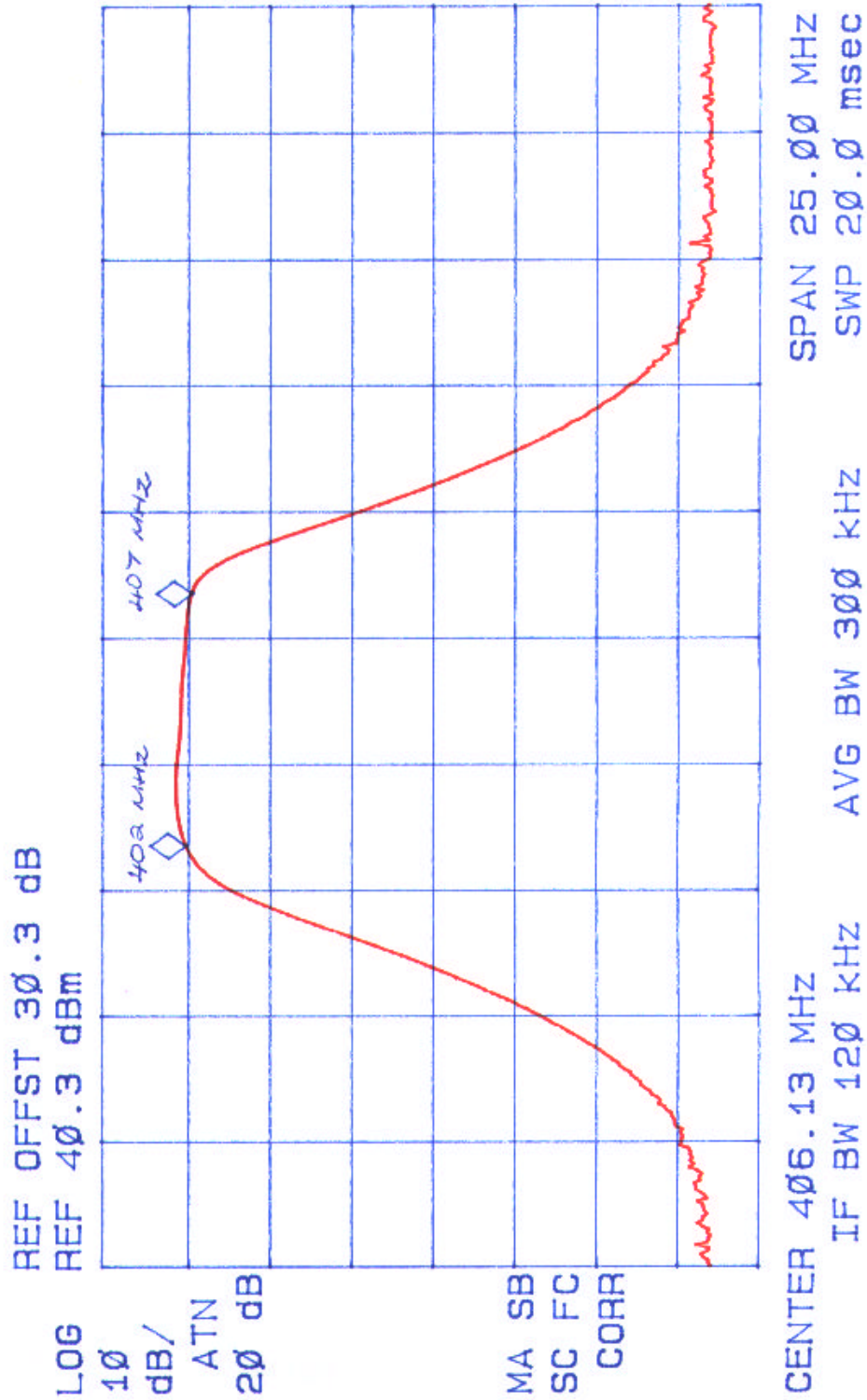
**UltraTech**  
Engineering Labs Inc.

**KAVAL TELECOM INC.**  
**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz**  
RF Tracking gain in 403-512 MHz at EUT RF Output port  
RF Input: **-40 dBm** Tracking from 403-512 MHz

Date: April 19, 2000  
Tested by: Hung Trinh

# EXHIBIT 9 - PLOT #2 OF 60

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 407.00 MHz  
29.33 dBm





**UltraTech**  
Engineering Labs Inc.

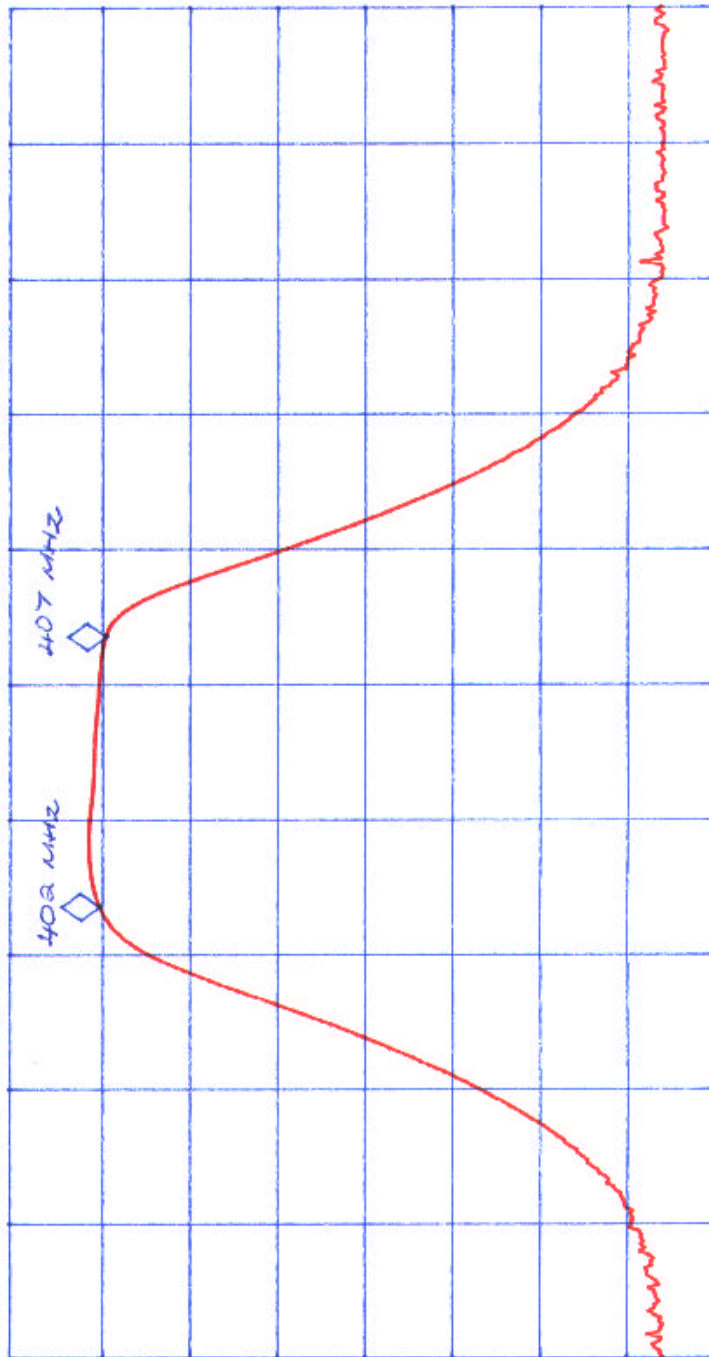
**KAVAL TELECOM INC.**  
**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz**  
RF Tracking gain in 403-512 MHz at EUT RF Output port  
RF Input: -40 dBm Tracking from 403-512 MHz

Date: April 19, 2000  
Tested by: Hung Trinh

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 407.00 MHz  
29.33 dBm

REF OFFST 30.3 dB  
REF 40.3 dBm

LOG 10  
dB/  
ATN  
20 dB



CENTER 406.13 MHz  
IF BW 120 KHZ  
AVG BW 300 KHZ  
SPAN 25.00 MHz  
SWP 20.0 msec



KAVAL TELECOM INC.

BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHZ  
403-512 MHz Amplifier gain response within  $F_o \pm 2.5B$

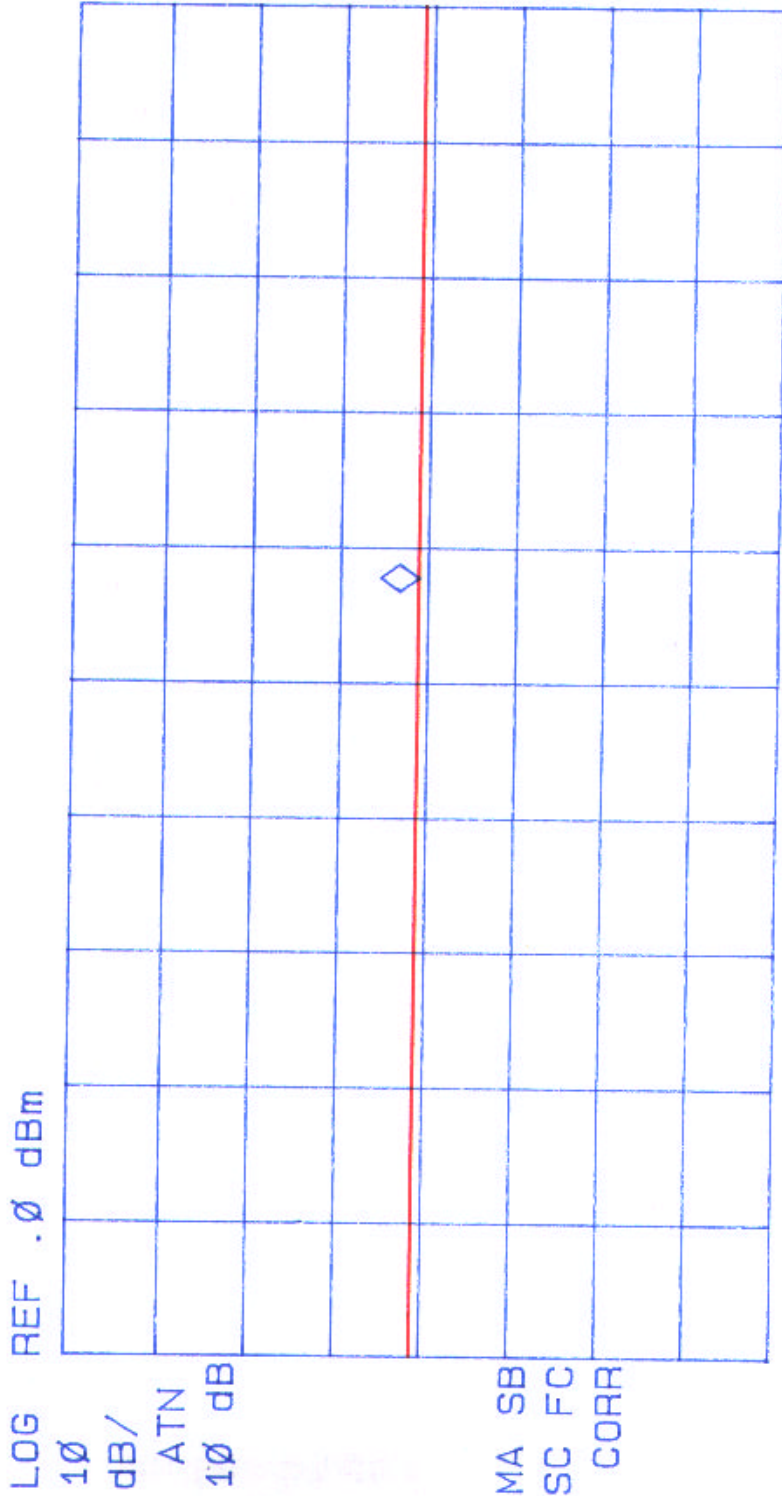
*RF INPUT TRACKING SIGNAL*

Date: April 19, 2000  
Tested by: Hung Trinh

*hp*

CENTER  
450.00 MHZ

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 453.88 MHZ  
-39.29 dBm



CENTER 450.00 MHZ  
IF BW 120 KHZ  
AVG BW 300 KHZ  
SPAN 50.00 MHZ  
SWP 20.0 msec



KAVAL TELECOM INC.

BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz  
RF Tracking gain in 403-512 MHz at EUT' RF Output port  
RF Input: -40 dBm Tracking from 403-512 MHz

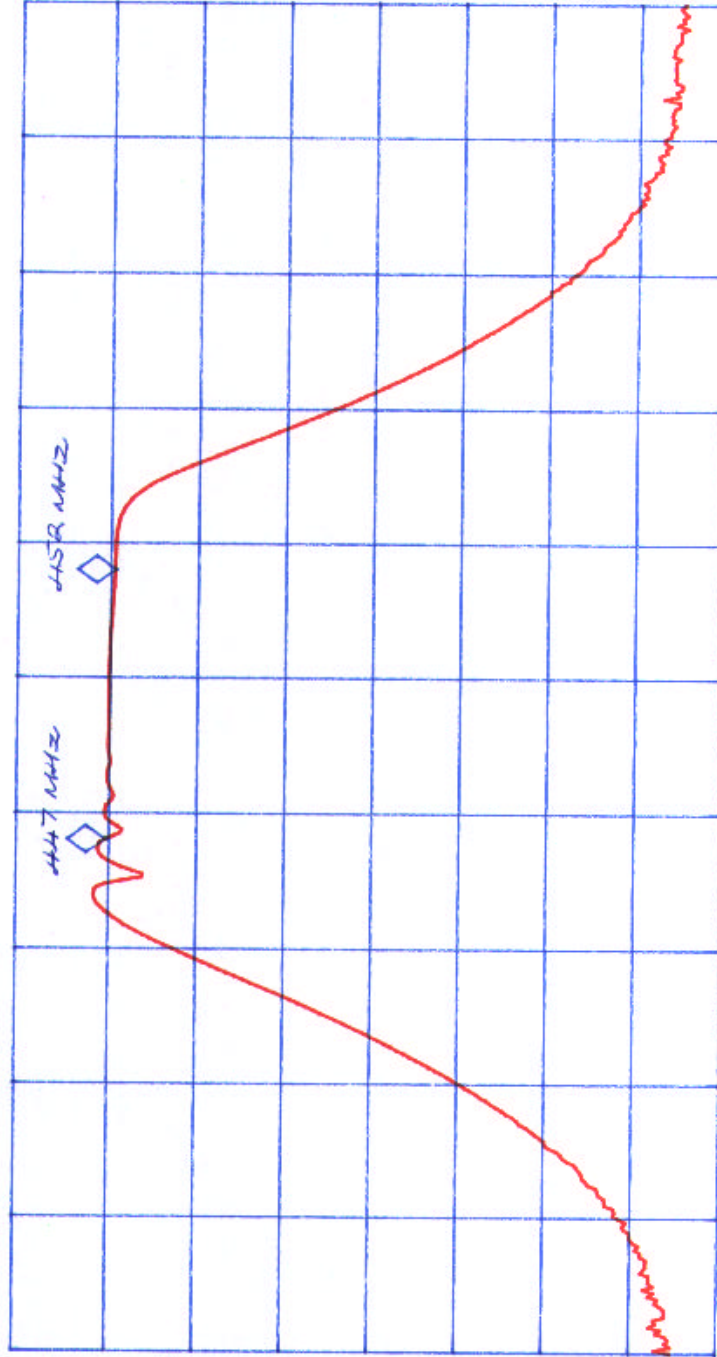
Date: April 19 200  
Tested by: Hung Trinh

MARKER  
452.00 MHz  
29.21 dBm

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 452.00 MHz  
29.21 dBm

REF OFFST 30.3 dB  
REF 40.3 dBm

LOG 10  
dB/  
ATN 20 dB



CENTER 450.00 MHz  
IF BW 120 kHz  
AVG BW 300 kHz  
SPAN 25.00 MHz  
SWP 20.0 msec



**UltraTech**  
Engineering Labs Inc.

**KAVAL TELECOM INC.**  
**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHZ**  
403-512 MHz Amplifier gain response within Fo ± 2.5B

Date: April 18, 2000  
Tested by: Hung Trinh

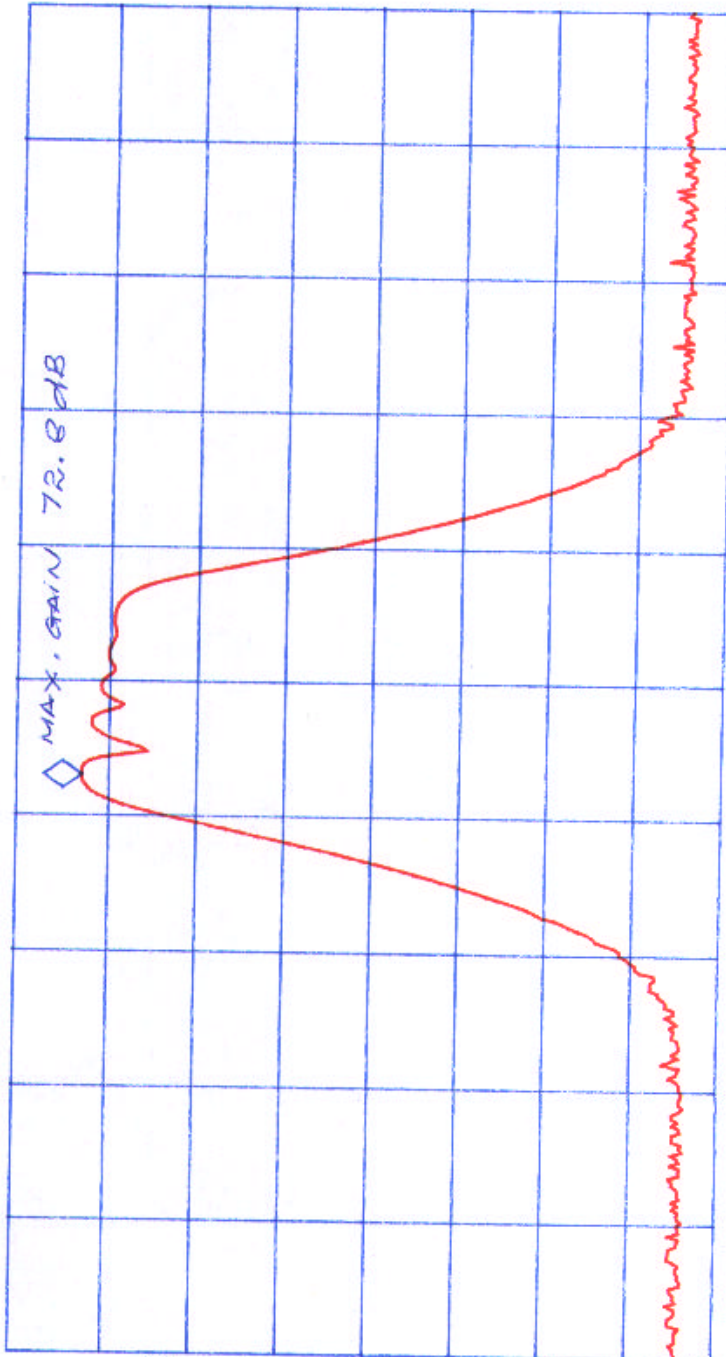
*hjp*

REF LEVEL  
40.3 dBm

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 446.50 MHZ  
32.82 dBm

REF OFFST 30.3 dB  
REF 40.3 dBm

LOG  
10  
dB/  
ATN  
20 dB



MA SB  
SC FC  
CORR

CENTER 450.00 MHZ  
IF BW 120 KHZ  
AVG BW 300 KHZ  
SPAN 50.00 MHZ  
SWP 20.00 msec



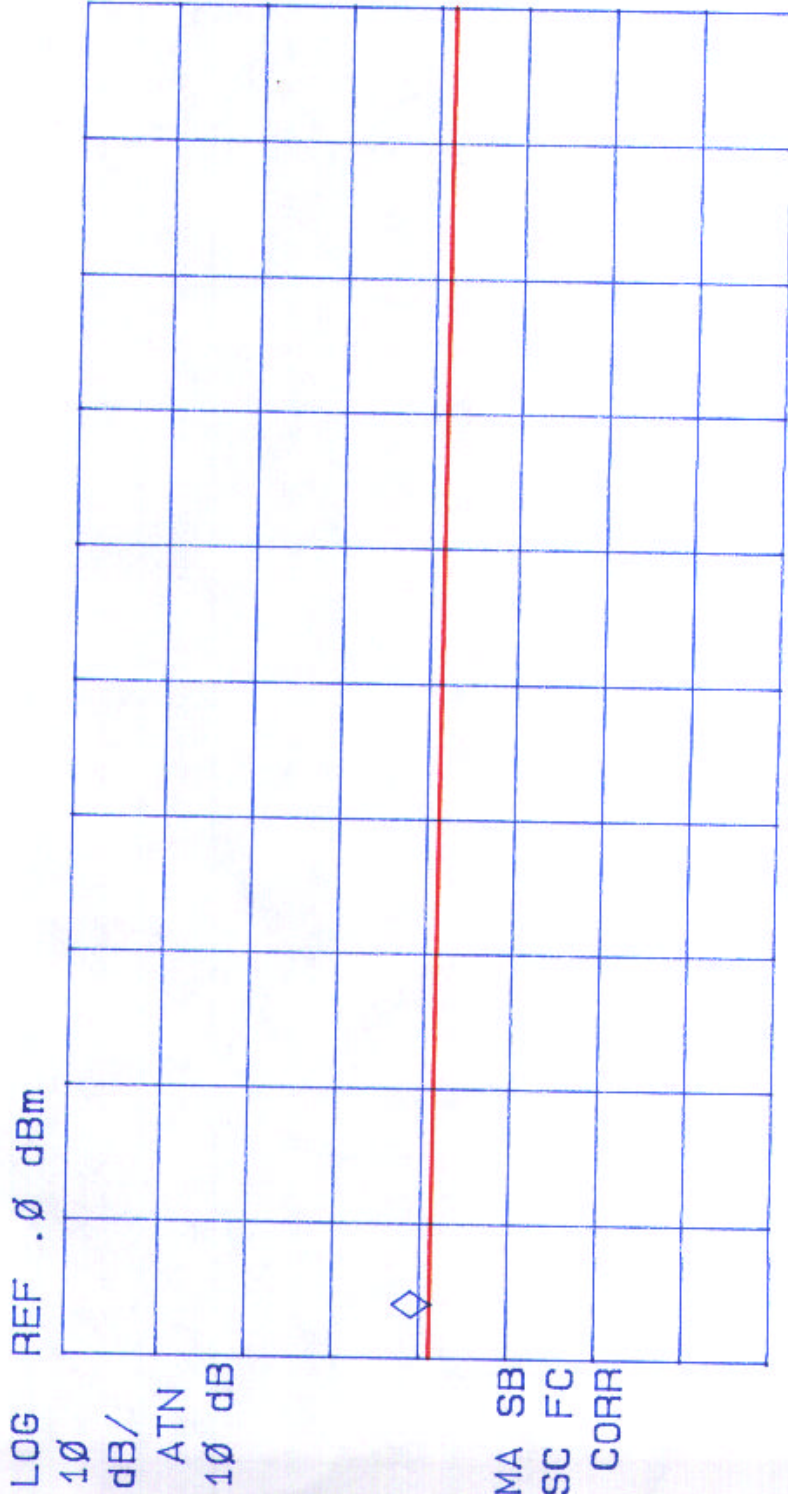
**UltraTech**  
Engineering Labs Inc.

**KAVAL TELECOM INC.**  
**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHZ**  
403-512 MHz Amplifier gain response within Fo ± 2.5B  
*RF INPUT TRACKING SIGNAL*

Date: April 08, 2000  
Tested by: Hung Trinh

MARKER  
447.000 MHZ  
-41.59 dBm

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 447.000 MHZ  
-41.59 dBm



Date: April 2000  
Tested by: Hung Trinh

**KAVAL TELECOM INC.**  
**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz**  
RF Tracking gain in 403-512 MHz at EUT RF Output port  
RF Input: -40 dBm Tracking from 403-512 MHz



ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 475.000 MHz  
27.000 dBm

MARKER  
475.000 MHz  
27.000 dBm

REF OFFST 30.3 dB  
REF 40.3 dBm



CENTER 470.000 MHz  
IF BW 120 kHz  
AVG BW 300 kHz  
SPAN 25.000 MHz  
SWP 20.0 msec





**UltraTech**  
Engineering Labs Inc.

**KAVAI TELECOM INC.**  
**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz**  
403-512 MHz Amplifier gain response within Fo ± 2.5B

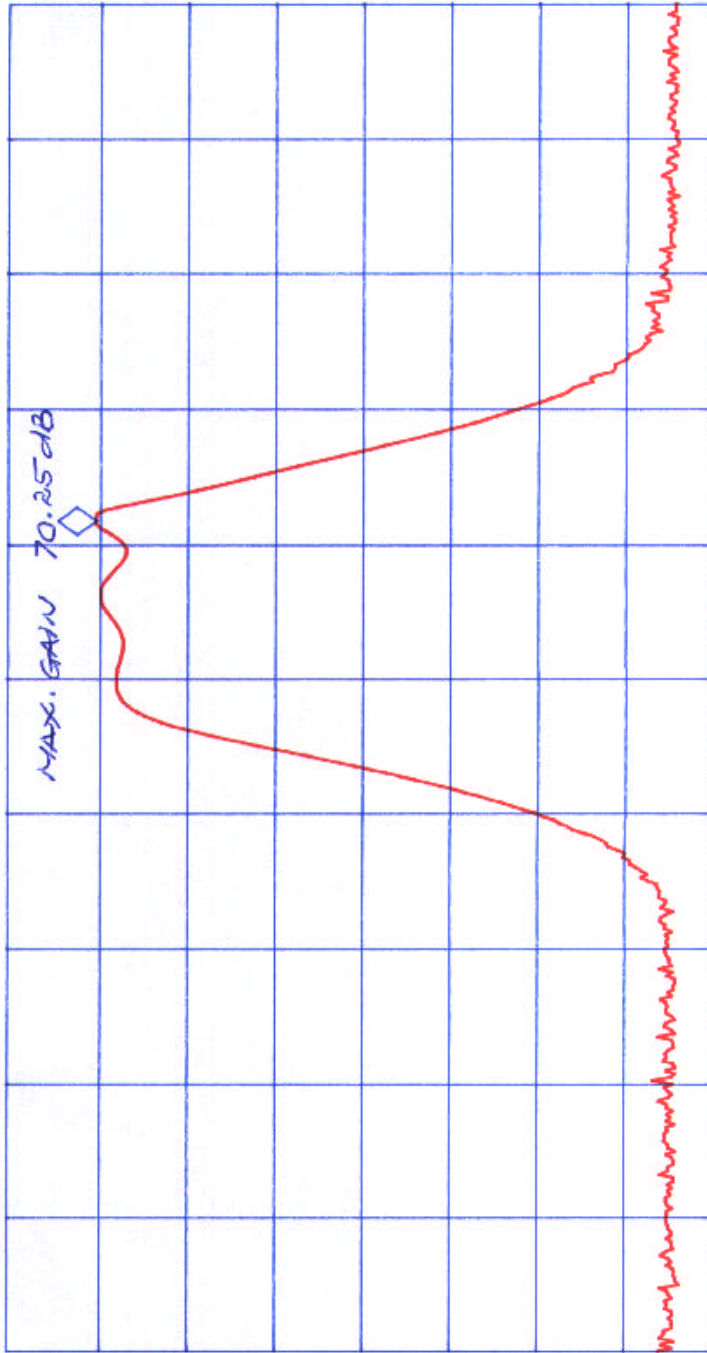
Date: April 2000  
Tested by: Hung Trinh

MARKER  
475.88 MHz  
30.25 dBm

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 475.88 MHz  
30.25 dBm

REF OFFST 30.3 dB  
REF 40.3 dBm

LOG  
10  
dB/  
ATN  
20 dB



MA SB  
SC FC  
CORR

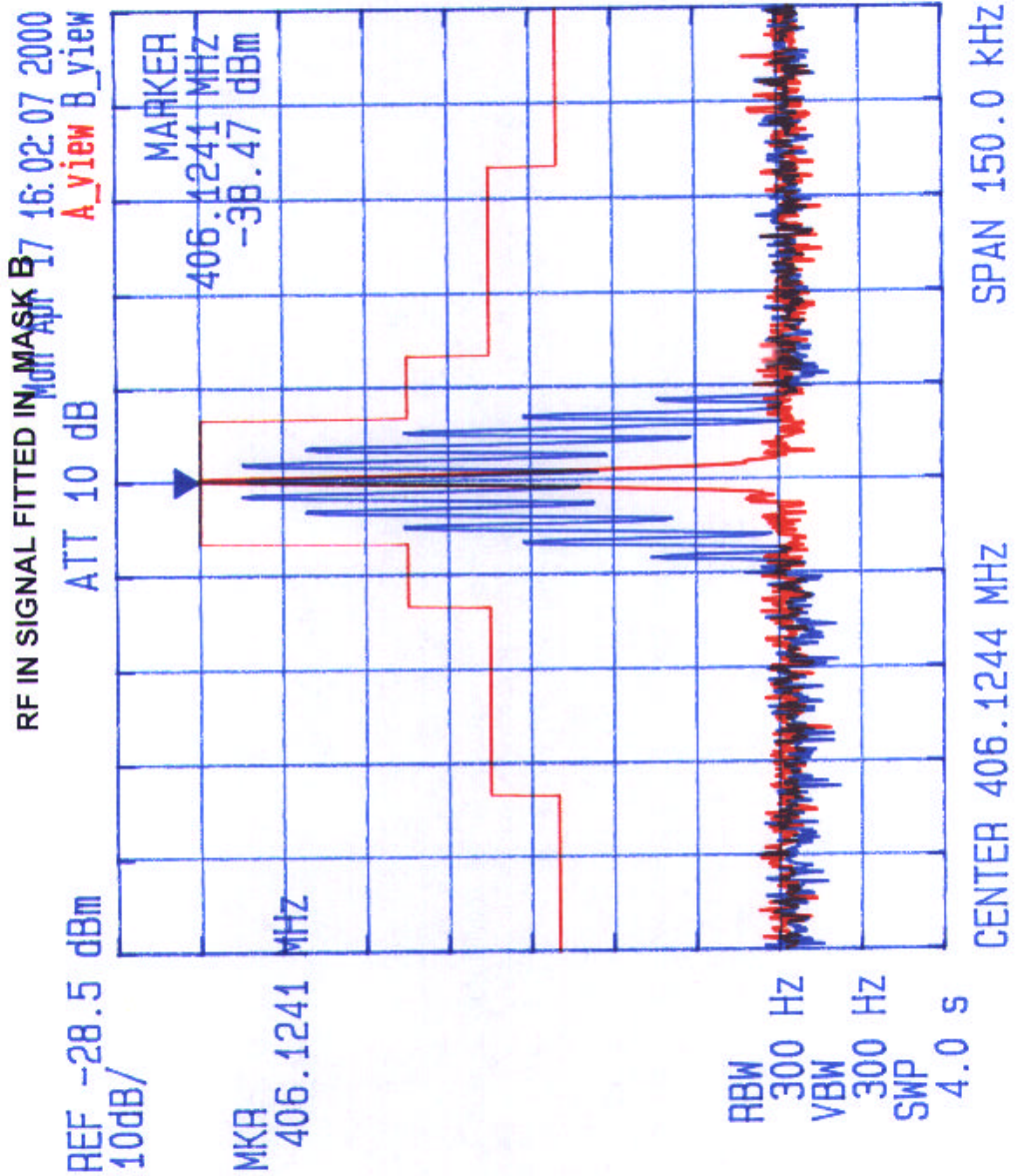
CENTER 470.00 MHz  
IF BW 120 KHz  
AVG BW 300 KHz  
SPAN 50.00 MHz  
SWP 20.0 msec



**KAVAL TELECOM INC.**  
**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz**  
RF In at level of -40 dBm @ 406.125 MHz  
Mod: FM Modulated with 2.5 kHz Sine Wave signal, Freq. Dev.: 2 kHz  
**Emissions Mask B, Channel spacing 25 kHz**

Date: April 17, 2000  
Tested by: Hung Trinh

plot # 10





**KAVAL TELECOM INC.**

**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz**

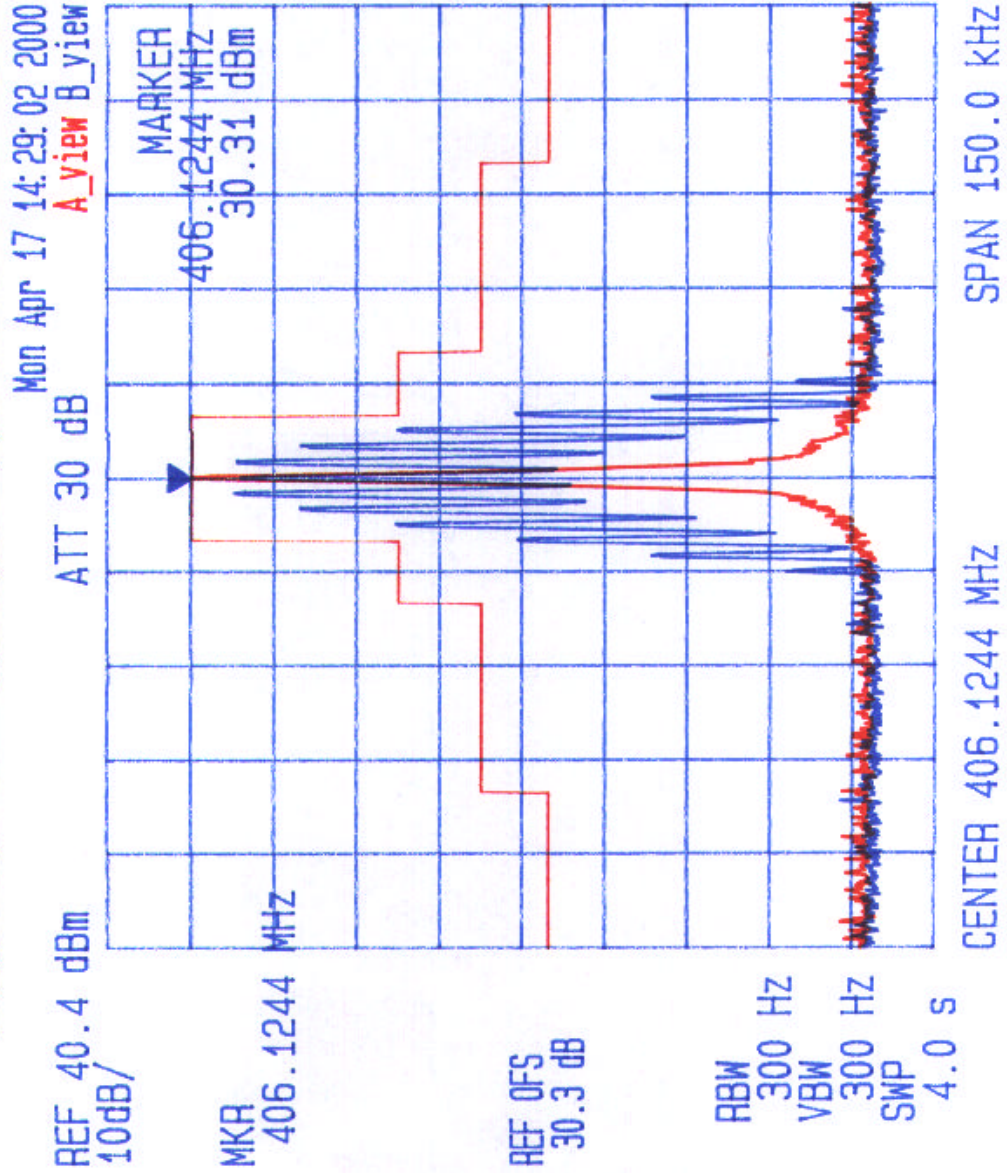
Tx Freq.: 406.125 MHz, RF Output: 1.4 Watts

RF In at level of -40 dBm @ 406.125 MHz

Mod: FM Modulated with 2.5 kHz Sine Wave signal, Freq. Dev.: 25 kHz

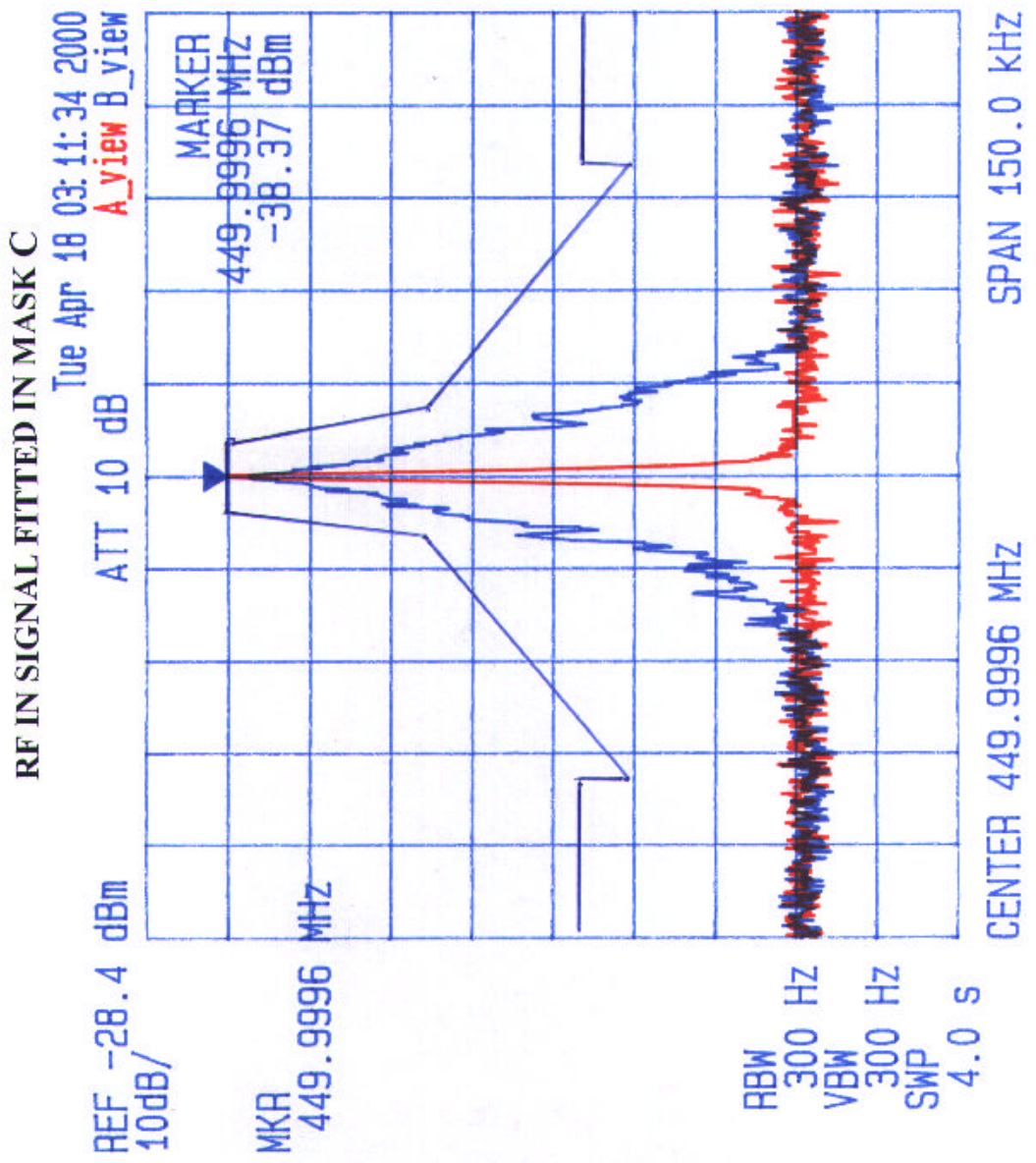
**Emissions Mask B, Channel spacing 25 kHz**

Date: April 17 2000  
Tested by: Hung Trinh



Date: April 18 2000  
Tested by: Hung Trinh

**KAVAL TELECOM INC.**  
**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz**  
RF In at level of -40 dBm @ 406.125 MHz  
Mod: FM Modulated with an external 9600 b/s random data, Freq. Dev.: 2 kHz  
**Emissions Mask C, Channel spacing 25 kHz**





**KAVAL TELECOM INC.**

**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz**

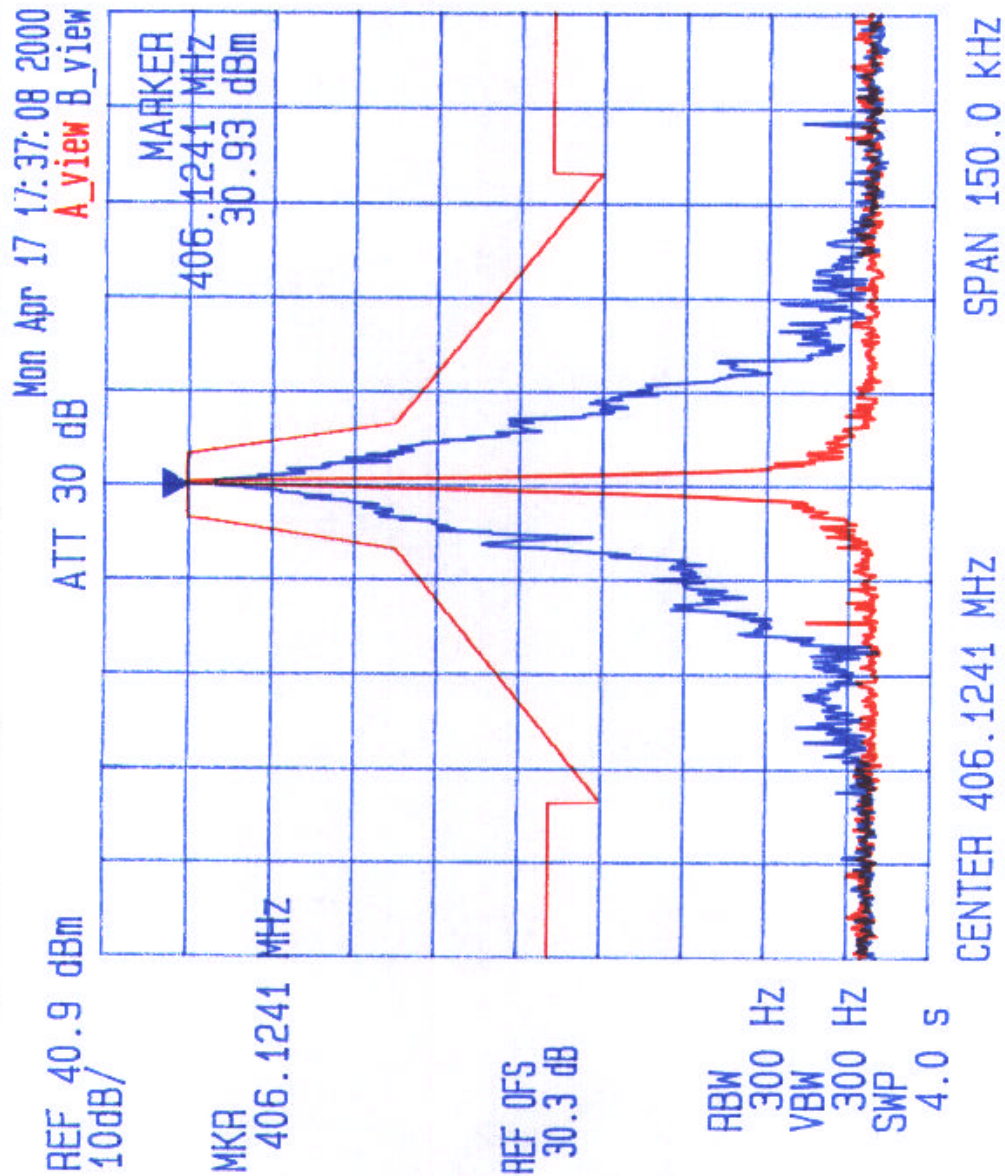
Tx Freq.: 406.125 MHz, RF Output: 1.4 Watts

RF In at level of -40 dBm @ 406.125 MHz

Mod: FM Modulated with an external 9600 b/s random data, Freq. Dev.: 2 kHz

**Emissions Mask C, Channel spacing 25 kHz**

Date: April 17, 2000  
Tested by: Hung Trinh



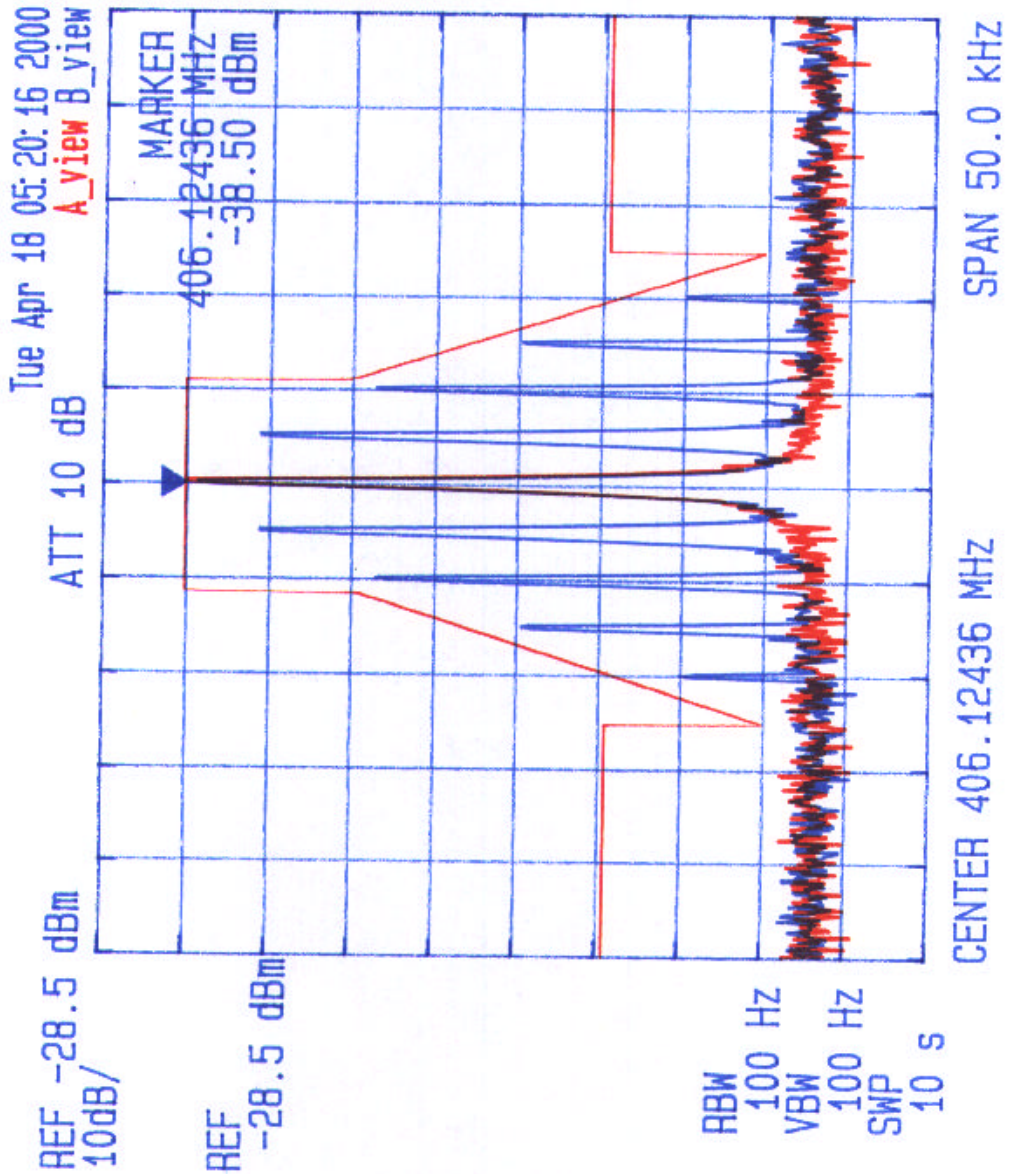


**UltraTech**  
Engineering Labs Inc.

**KAVAL TELECOM INC.**  
**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz**  
RF In at level of -40 dBm @ 406.125 MHz  
Mod: FM Modulated with 2.5 kHz Sine Wave signal, Freq. Dev.: 1.5 kHz  
**Emissions Mask D, Channel spacing 12.5 kHz**

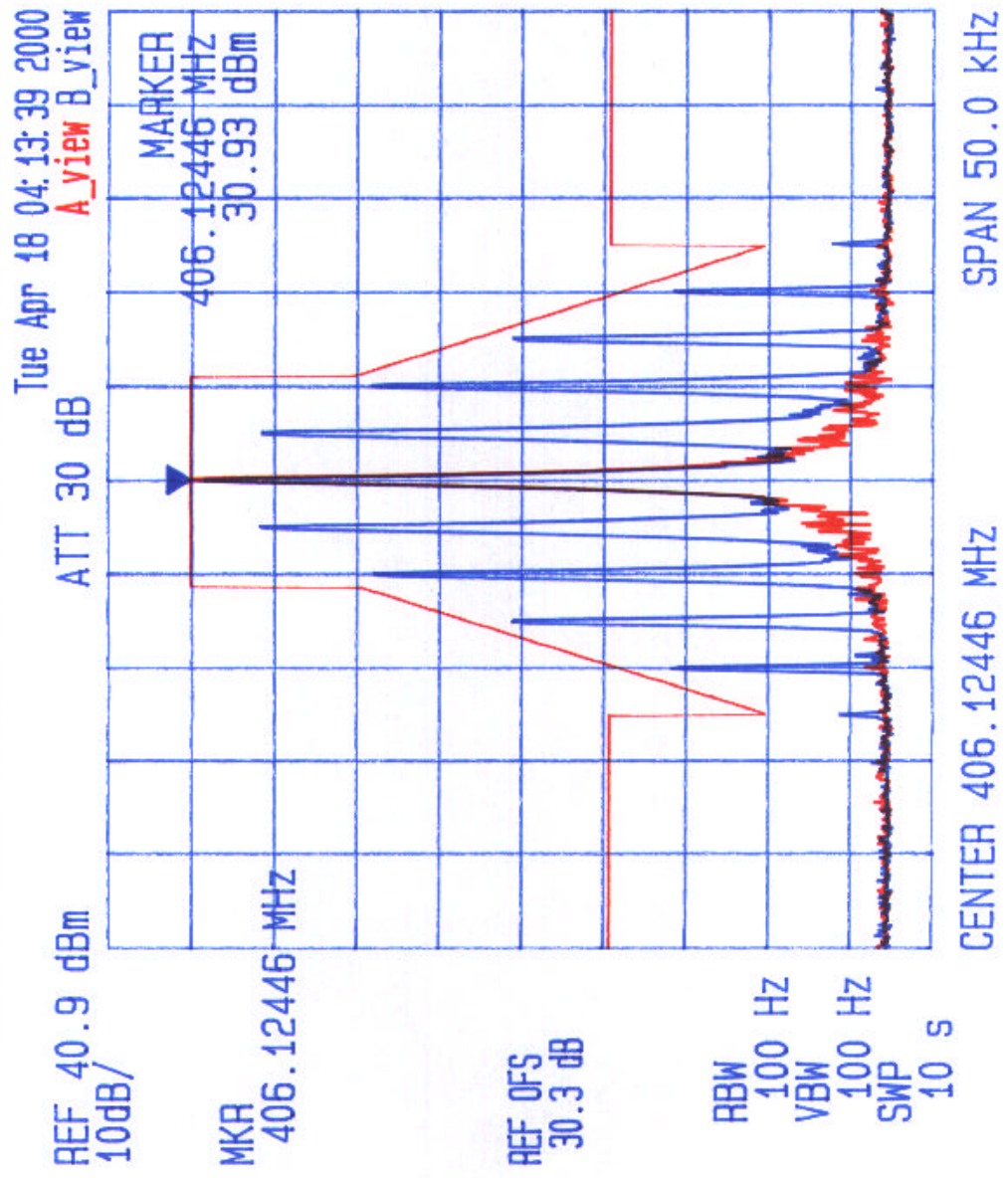
Date: April 18 2000  
Tested by: Hung Trinh

**RF IN SIGNAL FITTED IN MASK D**



Date: April 18, 2000  
Tested by: Hung Trinh

**KAVAL TELECOM INC.**  
**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz**  
Tx Freq.: 406.125 MHz, RF Output: 1.4 Watts  
RF In at level of -40 dBm @ 406.125 MHz  
Mod: FM Modulated with 2.5 kHz Sine Wave signal, Freq. Dev.: 1.5 kHz  
**Emissions Mask D, Channel Spacing 12.5 kHz**

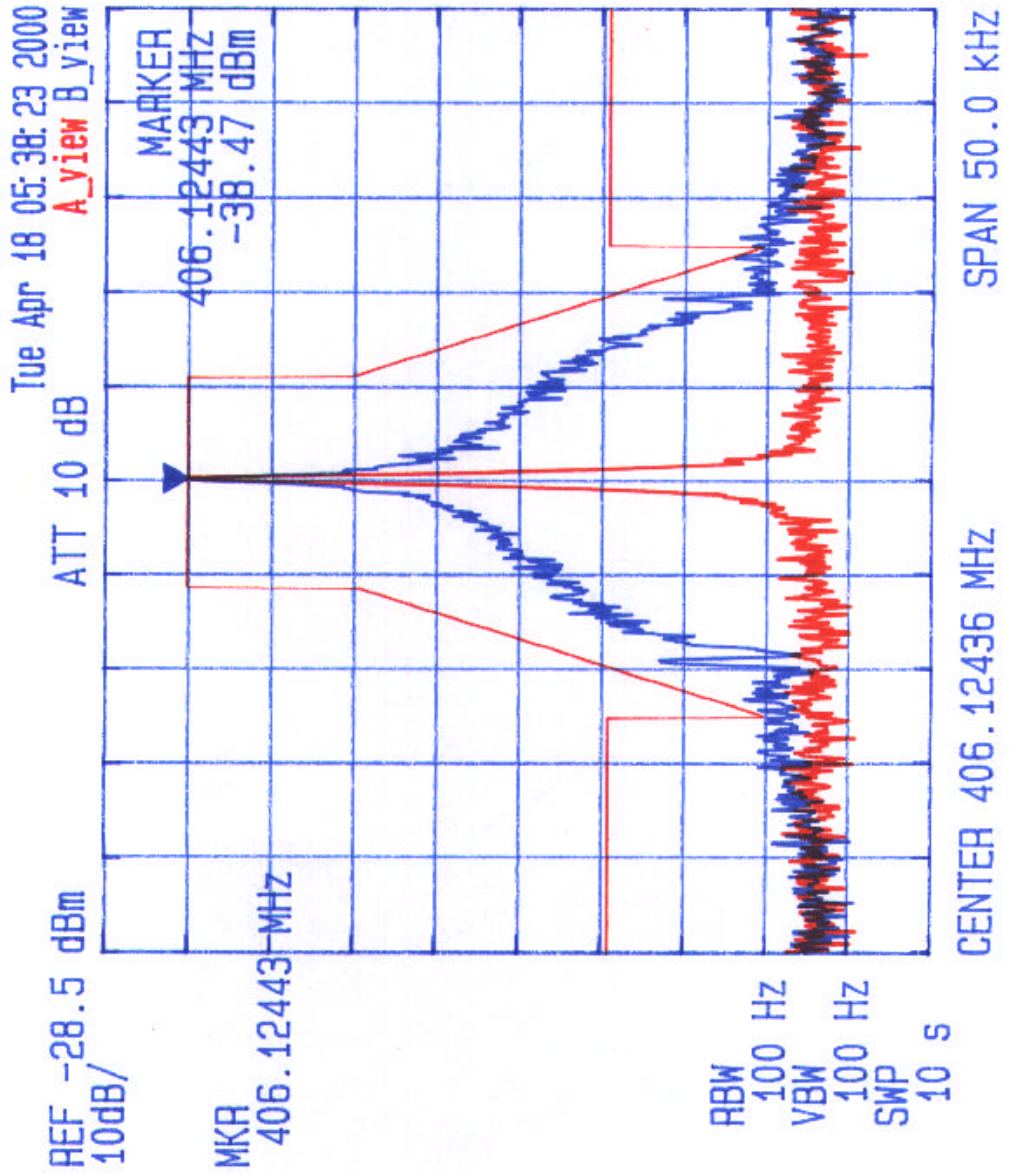




**KAVAL TELECOM INC.**  
**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz**  
RF In at level of -40 dBm @ 406.125 MHz  
Mod: FM Modulated with an external 9600 b/s random data, Freq. Dev. 2.5 kHz  
**Emissions Mask D, Channel spacing 12.5 kHz**

Date: April 18, 2000  
Tested by: Hung Trinh

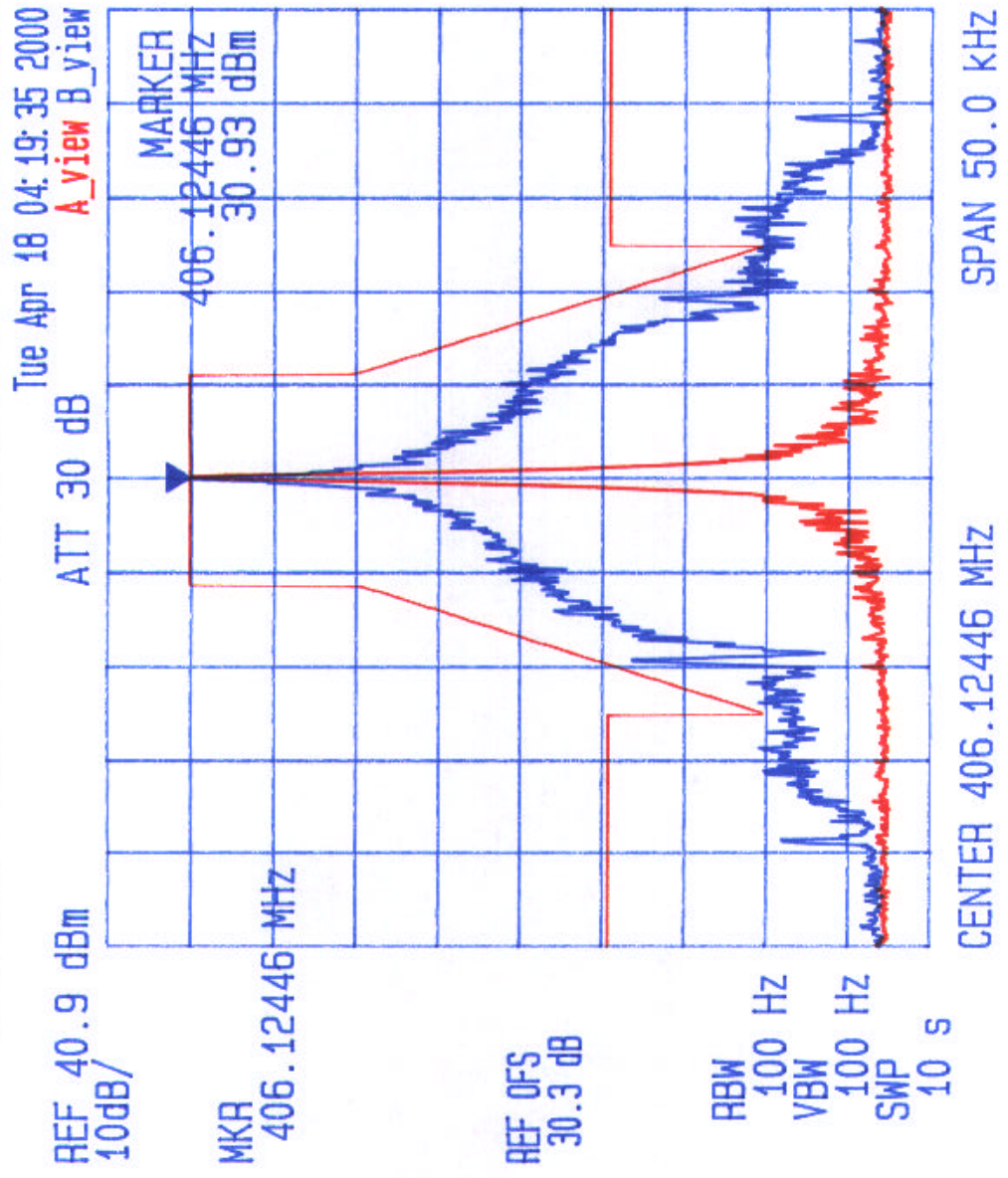
**RF IN SIGNAL FITTED IN MASK D**





Date: April 18 2000  
Tested by: Hung Trinh

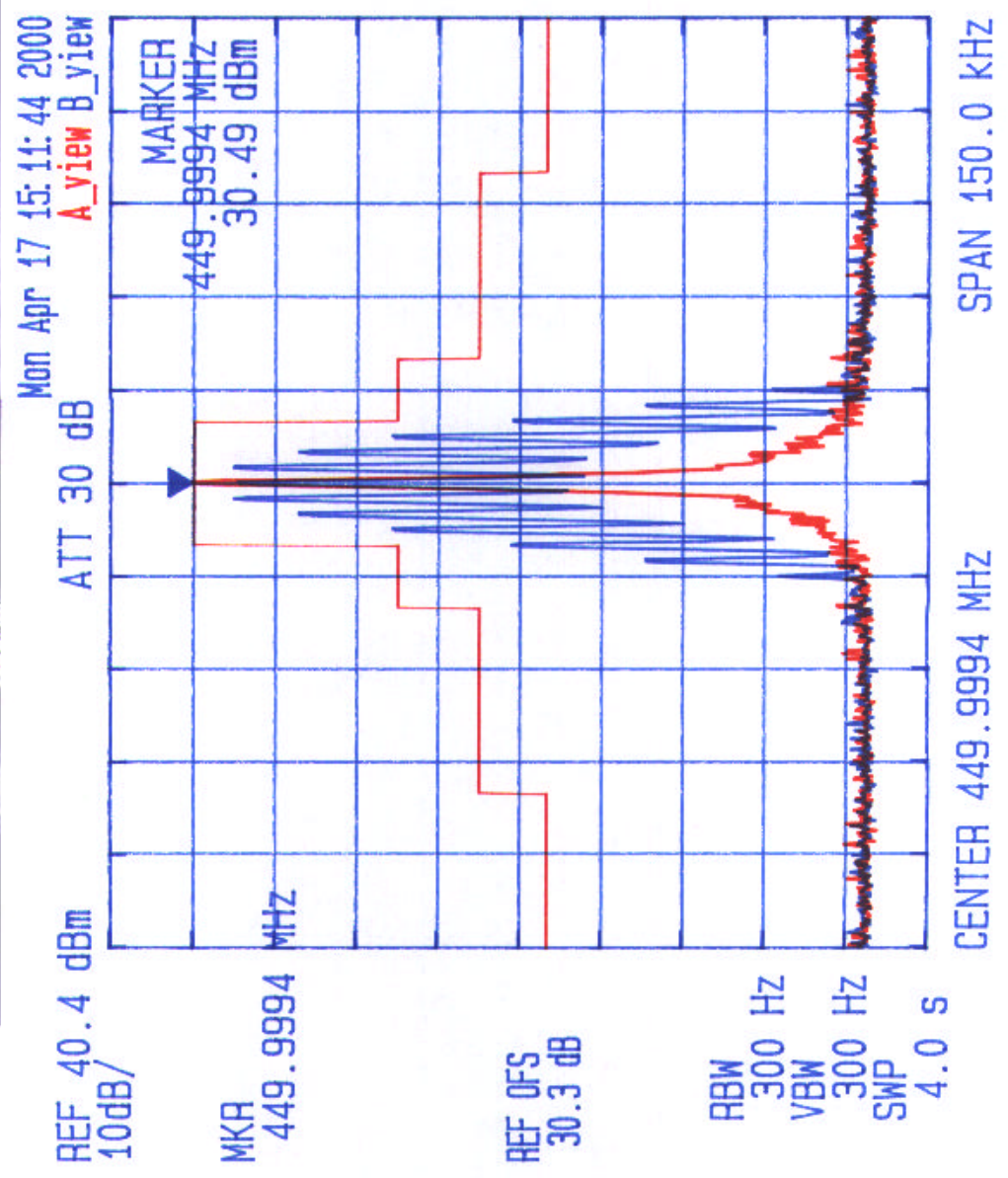
**KAVAL TELECOM INC.**  
**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz**  
Tx Freq.: 406.125 MHz, RF Output: 1.4 Watts  
RF In at level of -40 dBm @ 406.125 MHz  
Mod: FM Modulated with an external 9600 b/s random data, Freq. Dev.: 0.5 kHz  
**Emissions Mask D, Channel Spacing 12.5 kHz**





Date: April 17 2000  
Tested by: Hung Trinh

**KAVAL TELECOM INC.**  
**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz**  
Tx Freq.: 450 MHz, RF Output: 1.3 Watts  
RF In at level of -40 dBm @ 450 MHz  
Mod: FM Modulated with 2.5 kHz Sine Wave signal, Freq. Dev.: 2 kHz  
**Emissions Mask B, Channel spacing 25 kHz**





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**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz**

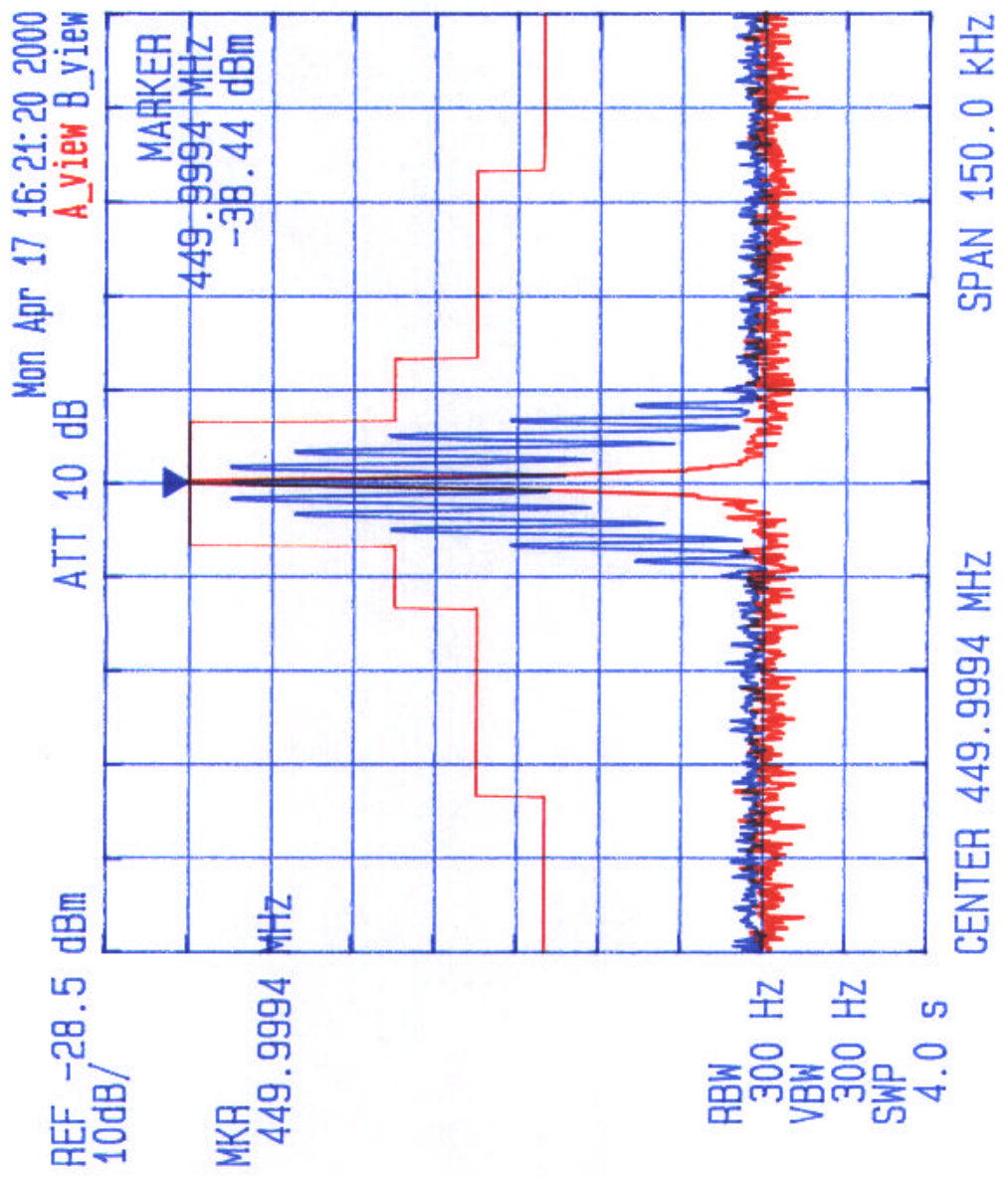
RF In at level of -40 dBm @ 450 MHz

Mod: FM Modulated with 2.5 kHz Sine Wave signal, Freq. Dev.: 2 kHz

**Emissions Mask B, Channel spacing 25 kHz**

Date: April 17 2000  
Tested by: Hung Trinh

**RF IN SIGNAL FITTED IN MASK B**





**KAVAL TELECOM INC.**  
**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz**  
Tx Freq.: 450 MHz, RF Output: 1.3 Watts  
RF In at level of -40 dBm @ 450 MHz  
Mod: FM Modulated with an external 9600 b/s random data, Freq. Dev.: 2 kHz  
**Emissions Mask C, Channel spacing 25 kHz**

Date: April 18 2000  
Tested by: Hung Trinh

