



UltraTech
Engineering Labs Inc.

Date: Jan. 02, 2000
Tested by: Hung Trinh

KAVAL TELECOM INC.

BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T- 806 - 8244 MHz
Tx Freq.: 806 MHz, RF Output at antenna: 0.89 Watts
Modulation: RF In at level of -34 dBm @ 806 MHz, FM Modulated with 2.5 kHz
Sine Wave signal, Freq. Dev.: 2.3 kHz

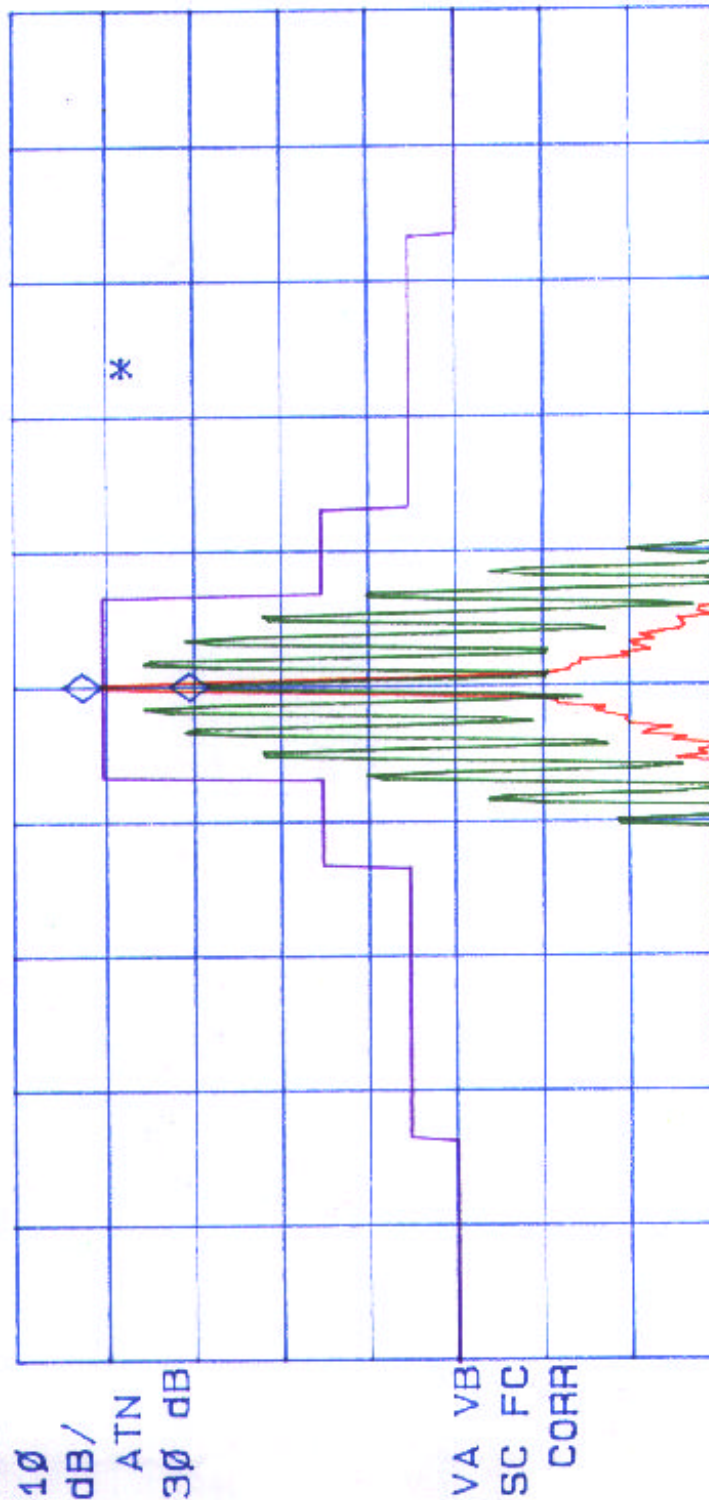
REF LEVEL
38.5 dBm

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 806.0015 MHz
28.47 dBm

REF OFFST 20.8 dB
REF 38.5 dBm

MASK B (RF OUT)

LOG
10
dB/
ATN
30 dB



VA VB
SC FC
CORR

CENTER 806.0015 MHz
#IF BW 300 Hz

AVG BW 300 Hz

SPAN 150.0 kHz
SWP 5.00 sec

PLOT #16



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KAVAL TELECOM INC.

BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T- 80G - 824 MHz
Tx Freq.: ✓ MHz, RF Output at antenna: ✓ Watts
Modulation: RF In at level of ✓ dBm @ 815 MHz, FM Modulated with 2.5 kHz
Sine Wave signal, Freq. Dev.: 2.3 kHz

Date: Jan. 07, 2000
Tested by: Hung Trinh

MARKER

815.0015 MHz

-11.81 dBm

ACTV DET: PEAK

MEAS DET: PEAK QP AVG

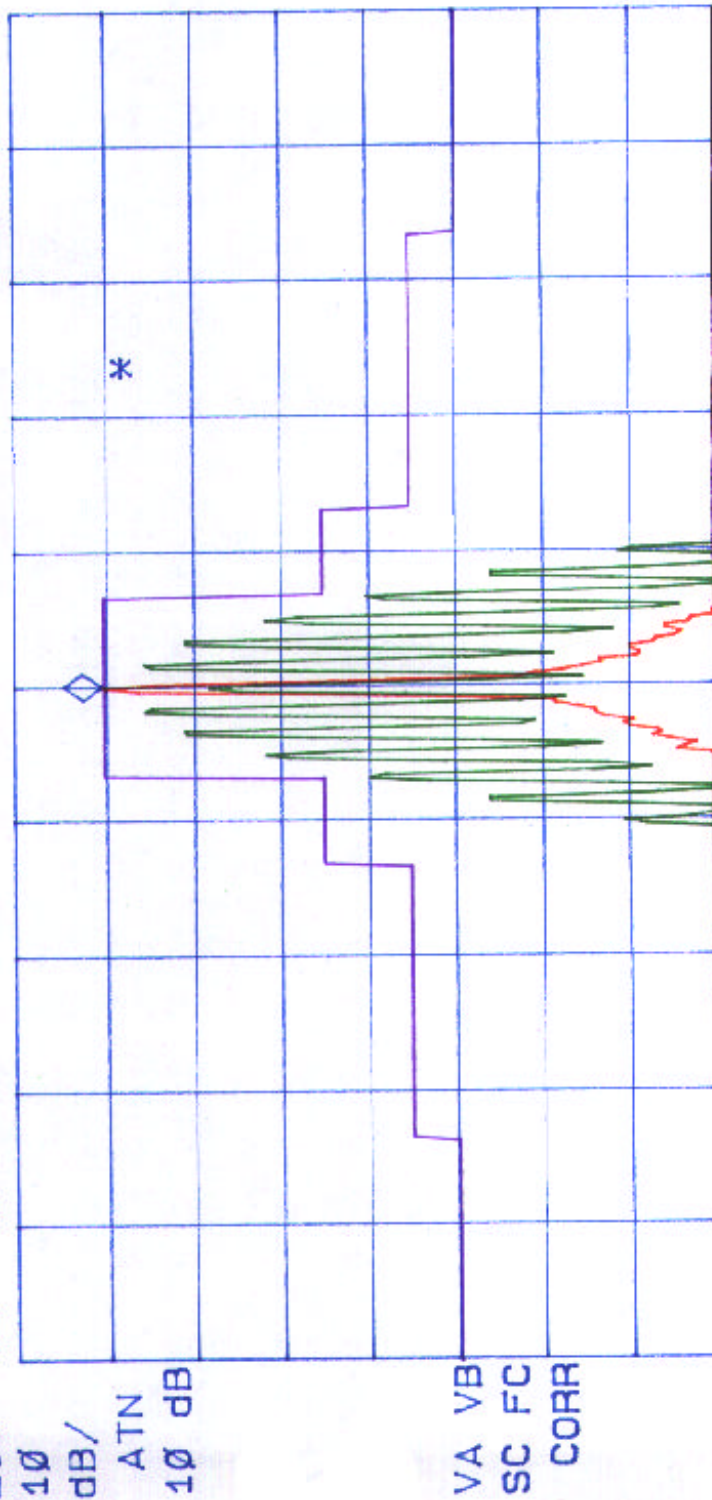
MKR 815.0015 MHz

-11.81 dBm

-20.53 dBm ATN

-32.34 dBm

LOG REF -1.8 dBm RF IN SIGNAL FITTED IN MASK B



CENTER 815.0015 MHz

#IF BW 300 Hz

AVG BW 300 Hz

SPAN 150.0 kHz

SWP 5.00 sec

PLOT #17

KAVAL TELECOM INC.

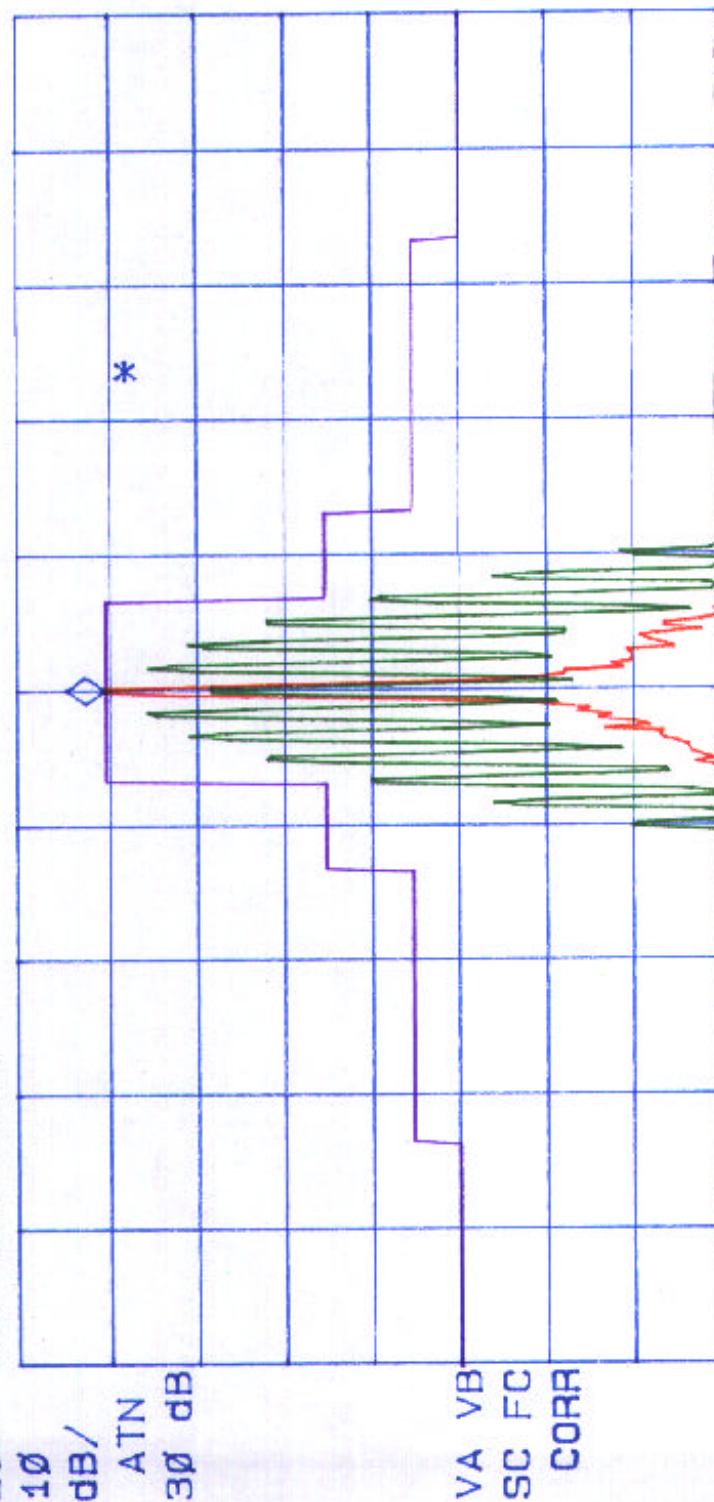
BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T- 806-824 MHz
Tx Freq.: 815 MHz, RF Output at antenna: 1.00 Watts
Modulation: RF In at level of -34 dBm @ 815 MHz, FM Modulated with 2.5 kHz
Sine Wave signal, Freq. Dev.: 2.3 kHz

REF LEVEL
39.1 dBm

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 815.0015 MHz
29.10 dBm

REF OFFST 20.8 dB
REF 39.1 dBm

MASK B (RF OUT)



CENTER 815.0015 MHZ
#IF BW 300 HZ

SPAN	150.0	KHz
SWP	5.00	sec
AVG BW	300	Hz

PLOT #18



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KAVAL TELECOM INC.

BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T- 806 - 824 MHz

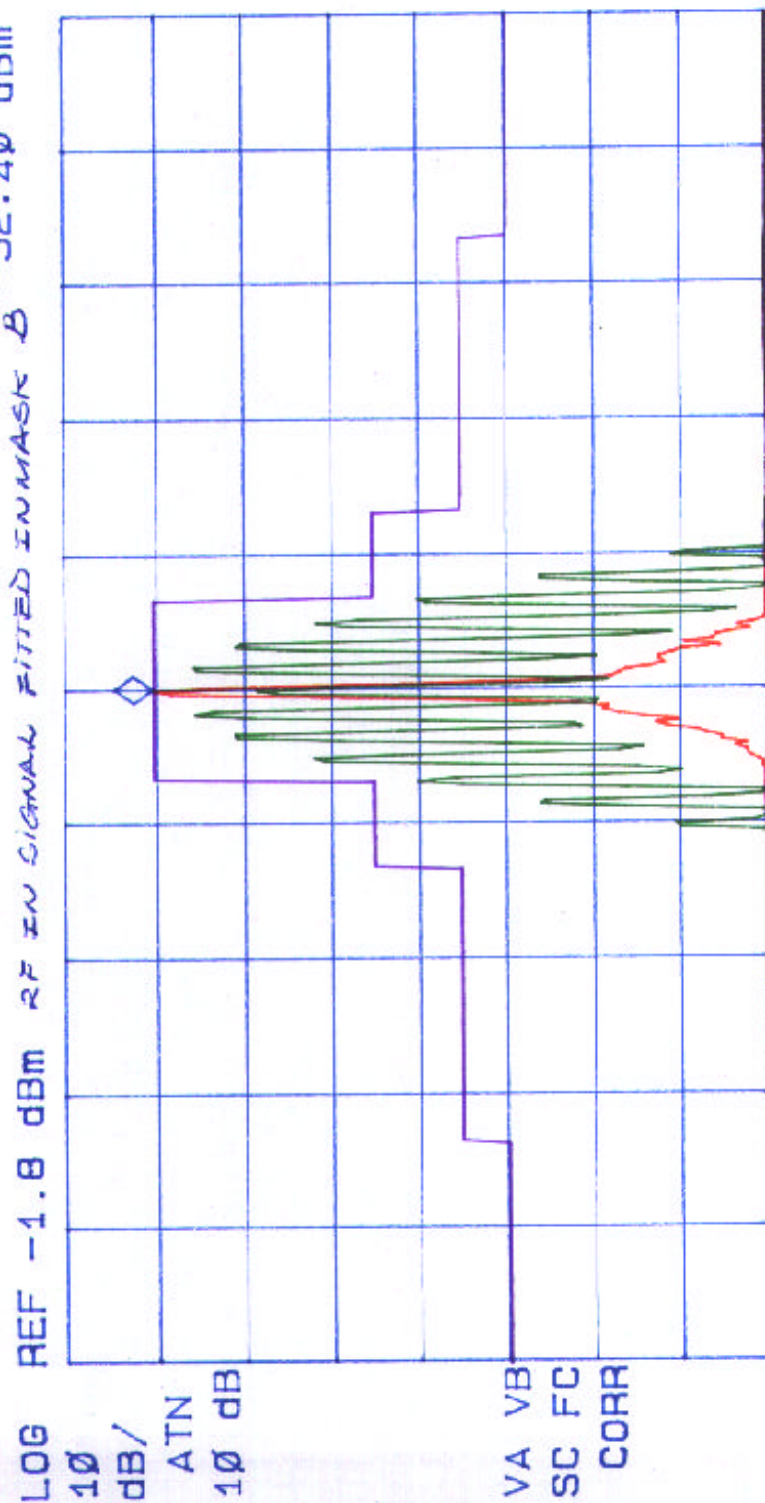
Tx Freq.: / MHz, RF Output at antenna: / Watts

Modulation: RF In at level of / dBm @ 824 MHz, FM Modulated with 2.5 kHz
Sine Wave signal, Freq. Dev.: 2.3 kHz

Date: Jan. 02, 2000
Tested by: Hung Trinh

REF LEVEL
-1.8 dBm

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 824.0015 MHz
-11.87 dBm
-20.53 dBm ATN
-32.40 dBm



CENTER 824.0015 MHz
#IF BW 300 Hz
SPAN 150.0 kHz
SWP 5.00 sec
AVG BW 300 Hz

PLOT #19



UltraTech
Engineering Labs Inc.

KAVAL TELECOM INC.

BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T- 806-824 MHz

Tx Freq.: 824 MHz, RF Output at antenna: 0.56 Watts

Modulation: RF In at level of -34 dBm @ 824 MHz, FM Modulated with 2.5 kHz

Sine Wave signal, Freq. Dev.: 2.3 kHz

Date: Jan. 02, 2000
Tested by: Hung Trinh

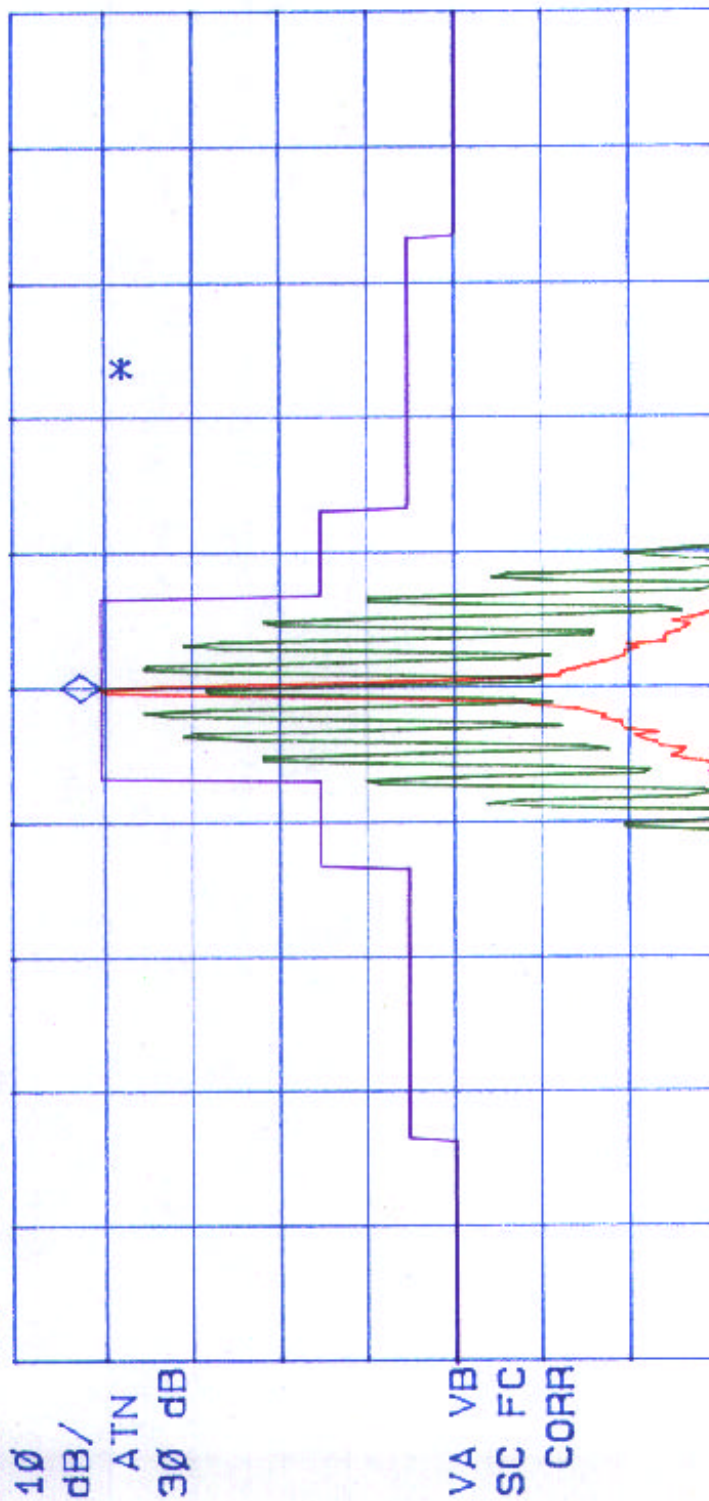
REF LEVEL
38.2 dBm

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 824.0019 MHz
28.19 dBm

REF OFFST 20.8 dB
REF 38.2 dBm

MASK B (RF OUT)

LOG
10
dB/
ATN
30 dB



CENTER 824.0019 MHz
#IF BW 300 Hz

AVG BW 300 Hz

SPAN 150.0 kHz
SWP 5.00 sec

PLOT #20



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Date: Jan. 02, 2000
Tested by: Hung Trinh

KAVAL TELECOM INC.

BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T- 851-869 MHz
Tx Freq.: 851 MHz, RF Output at antenna: 1 Watts
Modulation: RF In at level of 1 dBm @ 851 MHz, FM Modulated with 2.5 kHz
Sine Wave signal, Freq. Dev.: 2.5 kHz

MARKER

851.0015 MHz

-11.81 dBm

ACTV DET: PEAK

MEAS DET: PEAK QP AVG

MKR 851.0015 MHz

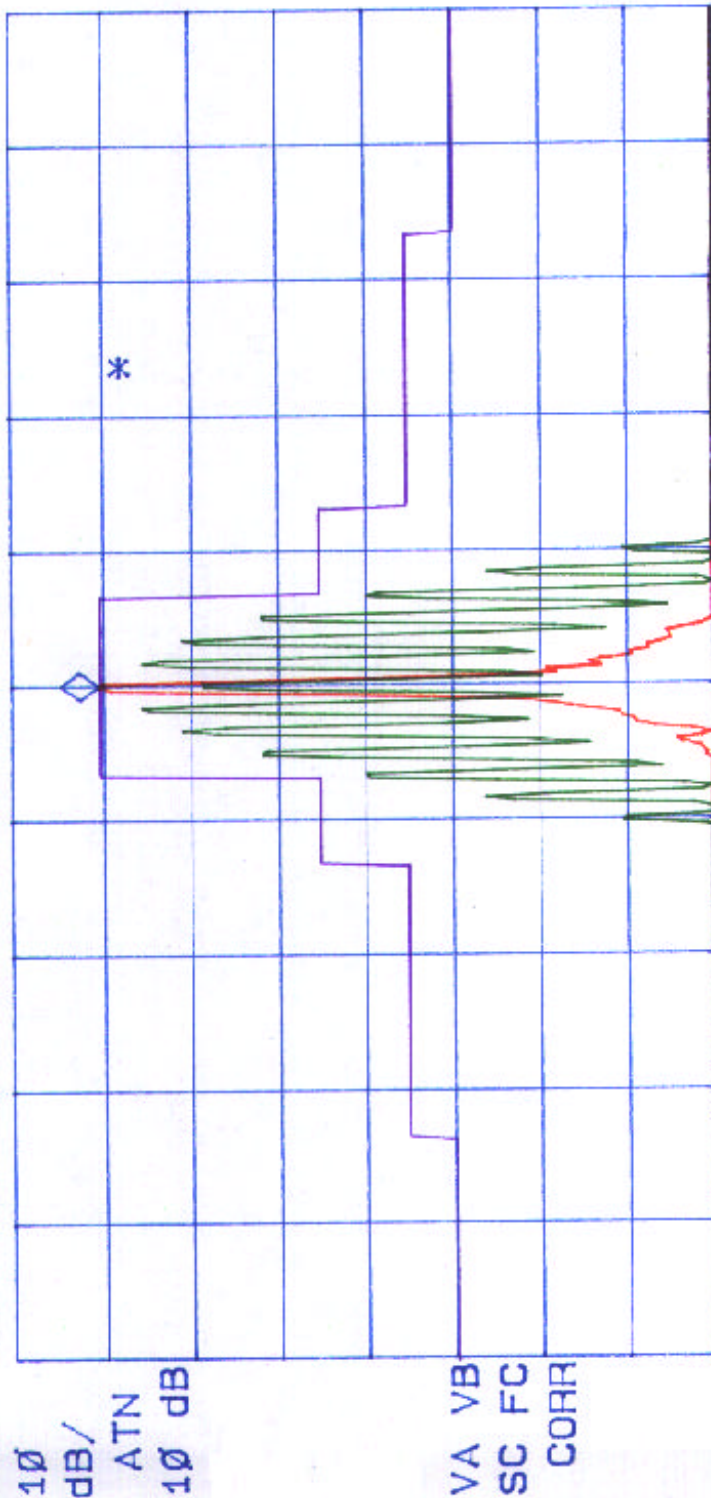
-11.81 dBm

-20.53 dBm ATN

-32.34 dBm

Add - 20.53 dBm to correct for attenuation

LOG REF -1.8 dBm RF IN SIGNAL FITTED IN MASK B



CENTER 851.0015 MHz

#IF BW 300 Hz

AVG BW 300 Hz

SPAN 150.0 KHz

SWP 5.00 sec

PLOT #21



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Date: Jan. 22, 2000
Tested by: Hung Trinh

KAVAL TELECOM INC.

BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T- 851- 869 MHz

Tx Freq.: 851 MHz, RF Output at antenna: 0.74 Watts

Modulation: RF In at level of -84 dBm @ 851 MHz, FM Modulated with 2.5 kHz

Sine Wave signal, Freq. Dev.: 2.5 kHz

ACTV DET: PEAK

MEAS DET: PEAK QP AVG

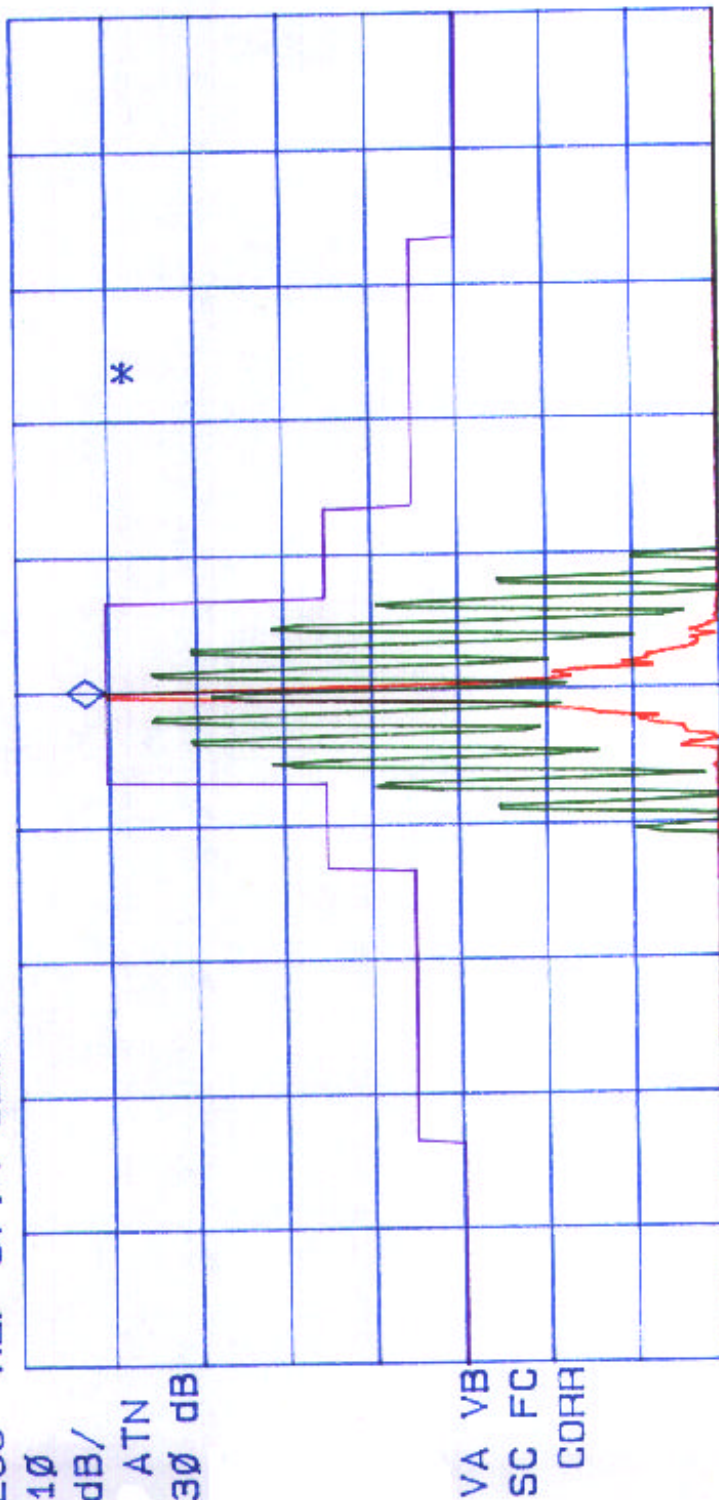
MKR 851.0023 MHz

27.36 dBm

REF OFFST 20.8 dB MASK B (REF OUT)

REF 37.4 dBm

LOG 10 dB/ ATN 30 dB



CENTER 851.0023 MHz

#IF BW 300 Hz

AVG BW 300 Hz

SPAN 150.0 KHz

SWP 5.00 sec

PLOT #22



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KAVAL TELECOM INC.

BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T- 851-809 MHz

Tx Freq.: 851 MHz, RF Output at antenna: 2 Watts

Modulation: RF In at level of 20.53 dBm @ 860 MHz, FM Modulated with 2.5 kHz
Sine Wave signal, Freq. Dev.: 2.5 kHz

Date: Jan 22, 2000
Tested by: Hung Trinh

CENTER

860.0019 MHz

ACTV DET: PEAK

MEAS DET: PEAK QP AVG

MKR 860.0019 MHz

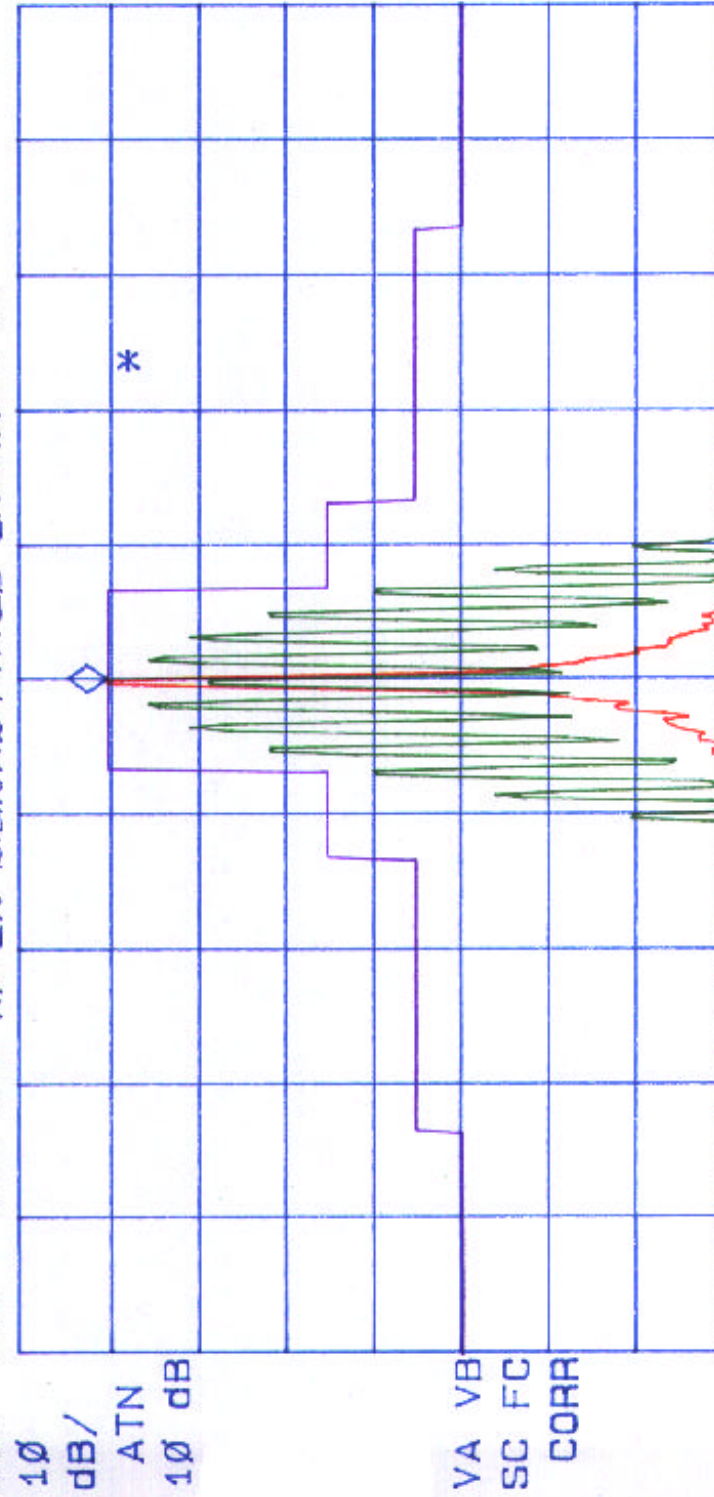
-11.80 dBm

-20.53 dBm ATN

-32.33 dBm

Add - 20.53 dBm to correct for attenuation

LOG REF -1.8 dBm RF IN SIGNAL FITTED IN MASK B



CENTER 860.0019 MHz

#IF BW 300 Hz

AVG BW 300 Hz

SPAN 150.0 kHz

SWP 5.00 sec

PLOT #23



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hp

KAVAL TELECOM INC.

BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T- 851-869 MHz
Tx Freq.: 860 MHz, RF Output at antenna: 0.87 Watts
Modulation: RF In at level of -24 dBm @ 860 MHz, FM Modulated with 2.5 kHz
Sine Wave signal, Freq. Dev.: 2.5 kHz

Date: Jan. 02, 2000
Tested by: Hung Trinh

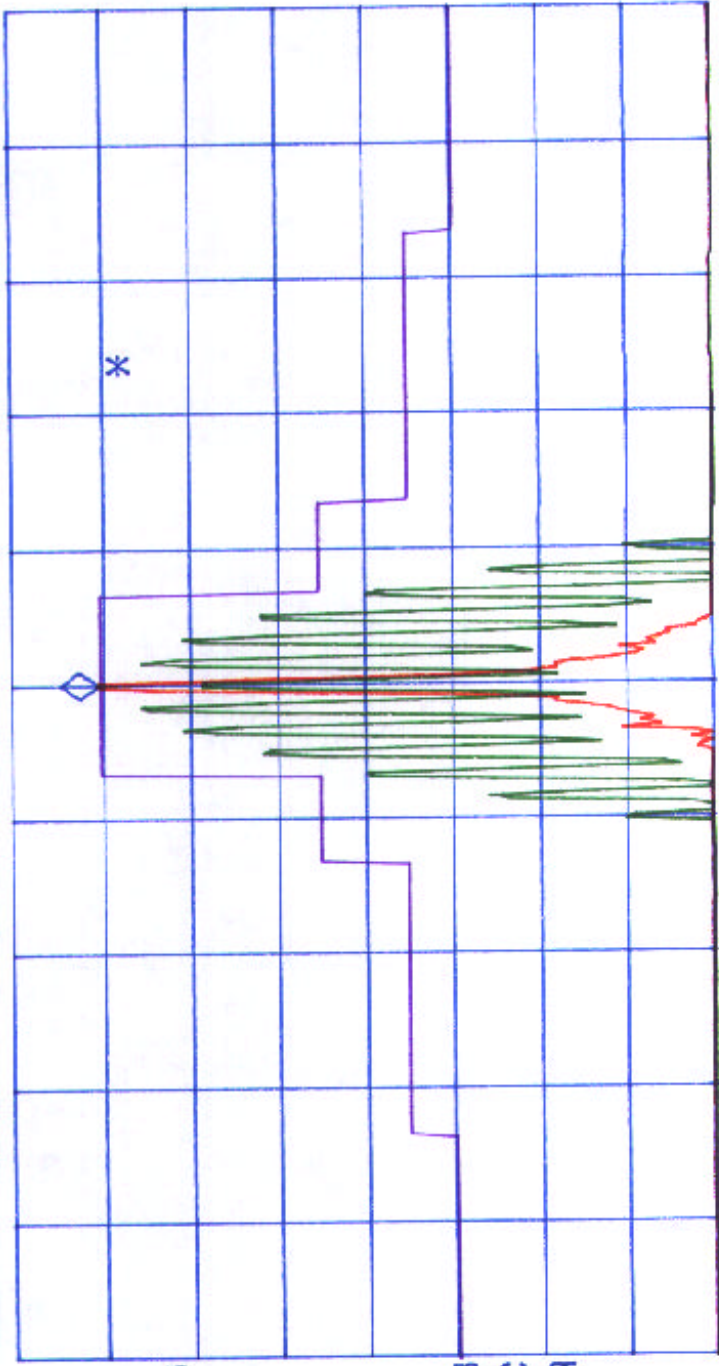
REF LEVEL
37.8 dBm

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR 860.0015 MHz
27.84 dBm

MASK 3 (RF OUT)

REF OFFST 20.8 dB
REF 37.8 dBm

LOG
10
dB/
ATN
30 dB



VA VB
SC FC
CORR

CENTER 860.0015 MHz
#IF BW 300 Hz
AVG BW 300 Hz
SPAN 150.0 kHz
SWP 5.00 sec



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BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T- 851-809 MHz

Tx Freq.: 851 MHz, RF Output at antenna: Watts

Modulation: RF In at level of dBm @ 869 MHz, FM Modulated with 2.5 kHz
Sine Wave signal, Freq. Dev.: 2.5 kHz

Date: Jan. 02, 2000
Tested by: Hung Trinh

REF LEVEL
-1.8 dBm

ACTV DET: PEAK

MEAS DET: PEAK QP AVG

MKR 869.0015 MHz

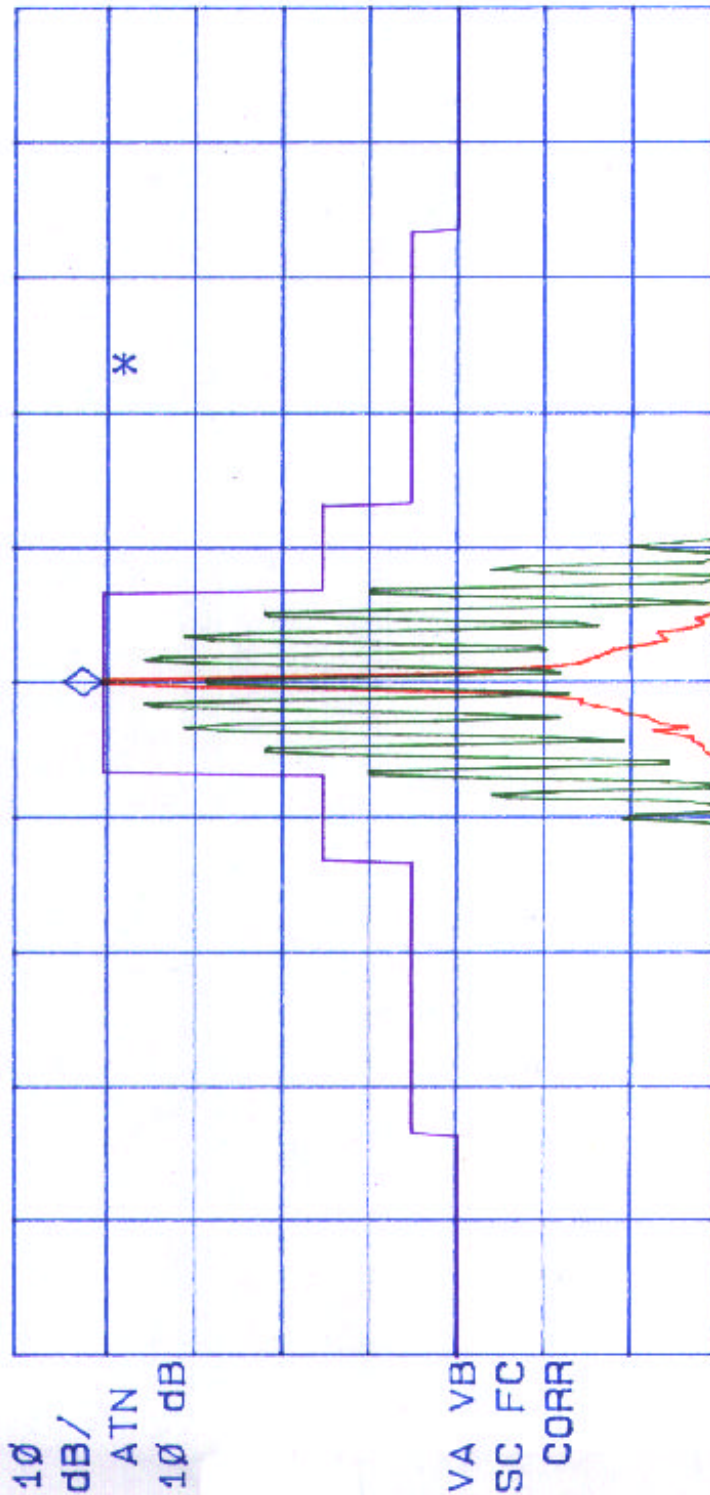
-11.81 dBm

-20.53 dBm ATN

-32.34 dBm

Add - 20.53 dBm to correct for attenuation

LOG REF -1.8 dBm RE IN SIGNAL FITTED IN MASK B



CENTER 869.0015 MHz

#IF BW 300 Hz

AVG BW 300 Hz

SPAN 150.0 kHz

SWP 5.00 sec

PLOT #25



UltraTech
Engineering Labs Inc.

KAVAL TELECOM INC.

BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T- 851-869 MHz

Tx Freq.: 869 MHz, RF Output at antenna: 0.53 Watts

Modulation: RF In at level of -34 dBm @ 869 MHz, FM Modulated with 2.5 kHz

Sine Wave signal, Freq. Dev.: 3.5 kHz

Date: Jan. 22, 2000
Tested by: Hung Trinh

REF LEVEL

35.6 dBm

ACTV DET: PEAK

MEAS DET: PEAK QP AVG

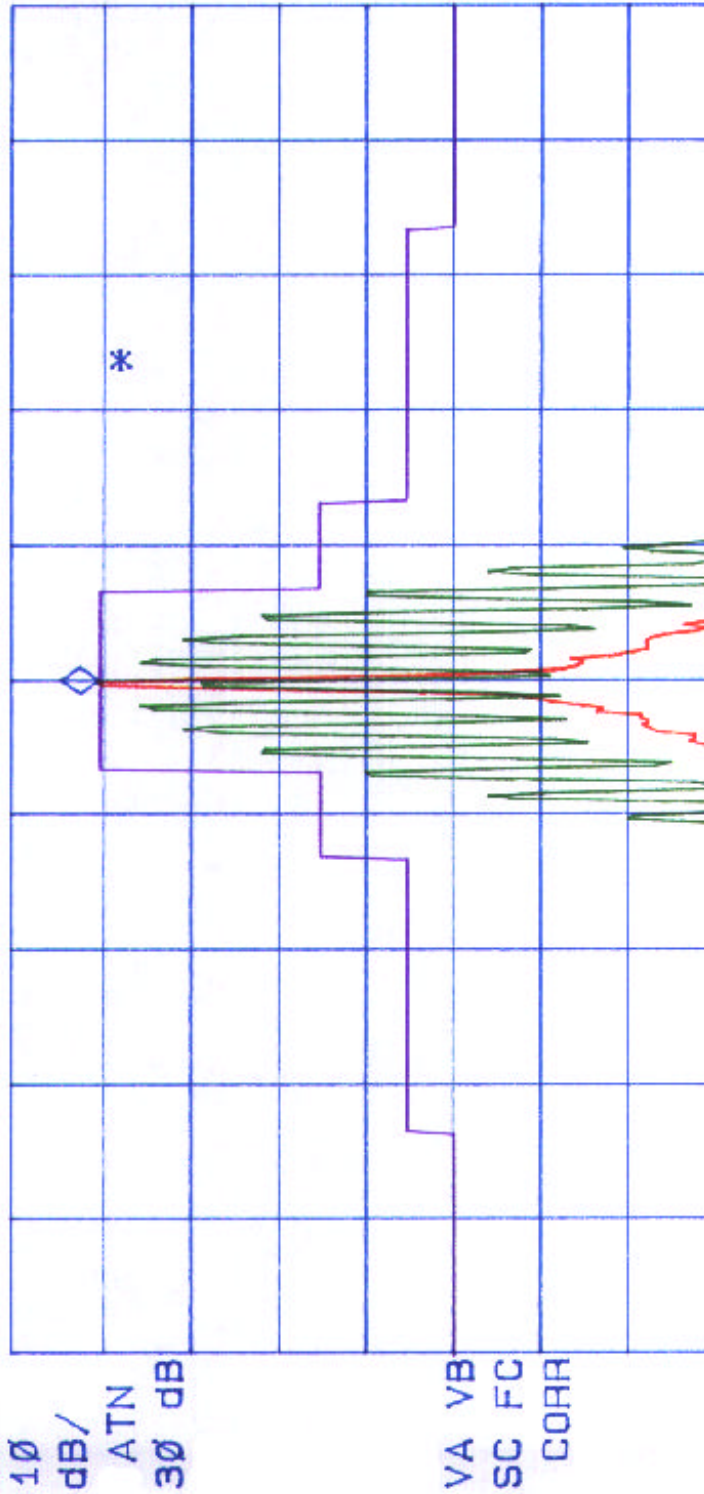
MKR 869.0019 MHz

25.55 dBm

REF OFFST 20.8 dB MASK B (RF OUT)

REF 35.6 dBm

LOG
10
dB/
ATN
30 dB



CENTER 869.0019 MHz

#IF BW 300 Hz

AVG BW 300 Hz

SPAN 150.0 kHz

SWP 5.00 sec

PLOT #26