



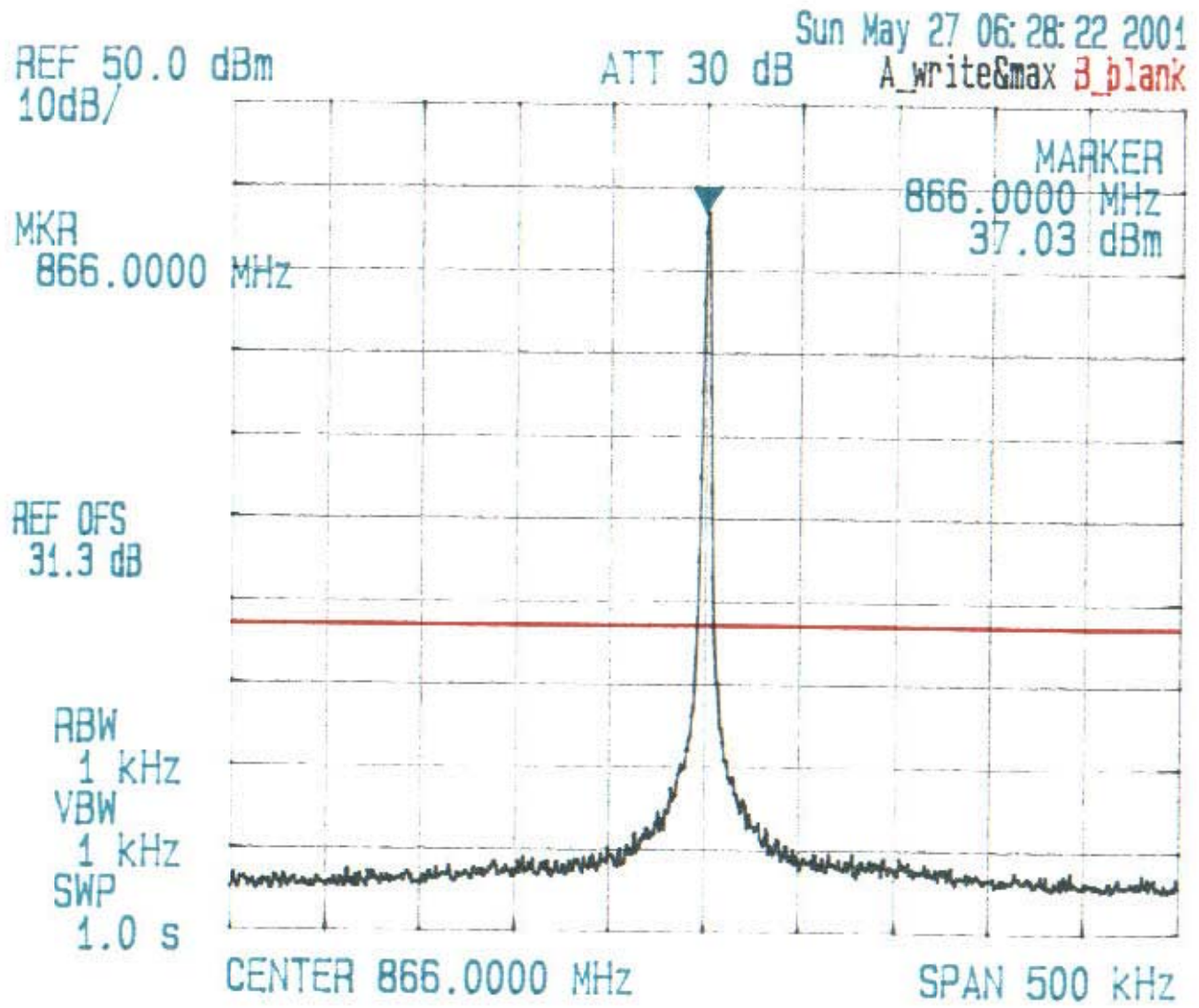
**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 851-866 MHz Output with 1 RF Input Signals  
RF In / Out Frequency 866 MHz

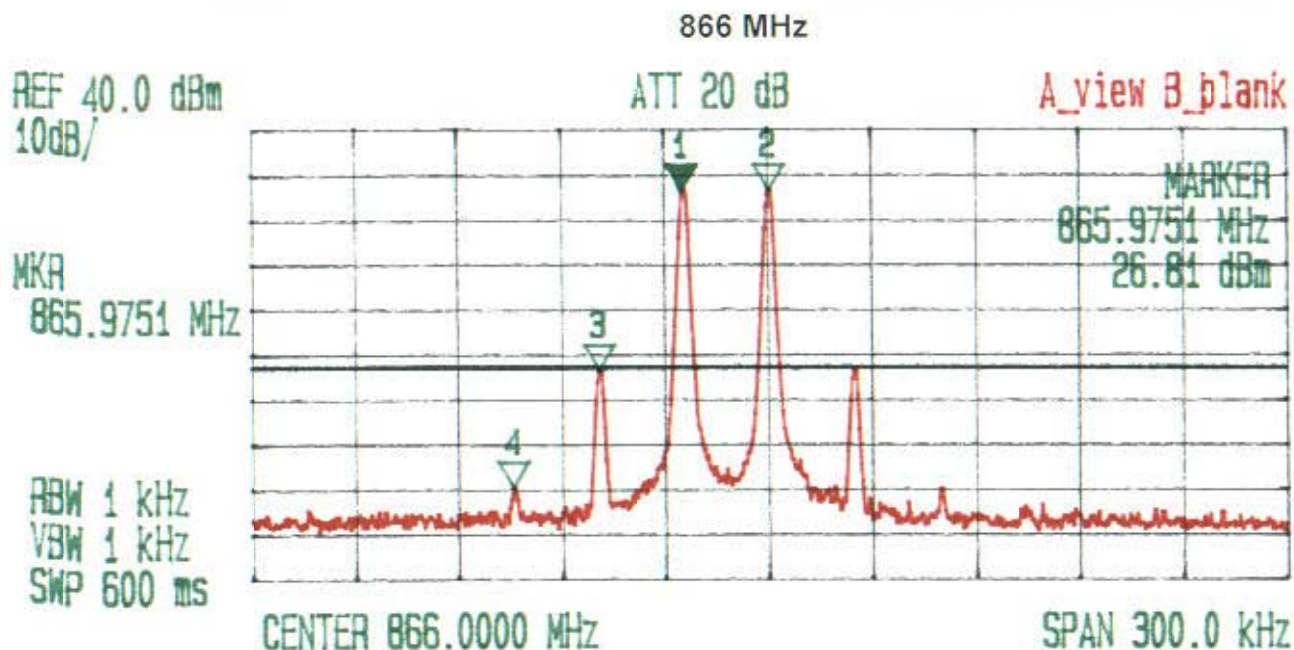
Date: May 27 2001  
Tested by: Hung Trinh

PLOT # 176

RF IN -44.5 dBm



PLOT # 177



RF IN

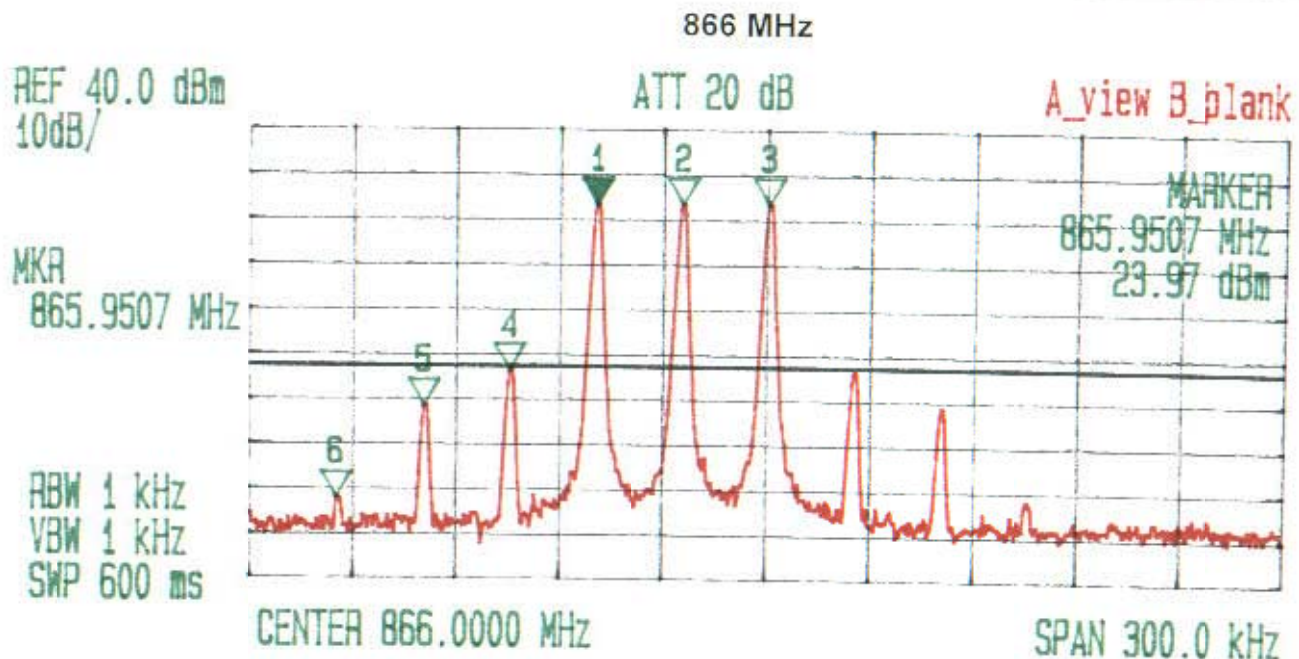
① -56.28 dBm

② -56.4 dBm

\*\*\* Multi Marker List \*\*\*

No. 1:	865.9751 MHz	26.81 dBm	A
No. 2:	866.0004 MHz	26.81 dBm	A
No. 3:	865.9507 MHz	-13.03 dBm	A
No. 4:	865.9259 MHz	-39.38 dBm	A
No. 5:			
No. 6:			
No. 7:			
No. 8:			
Δ:			

PLOT # 178

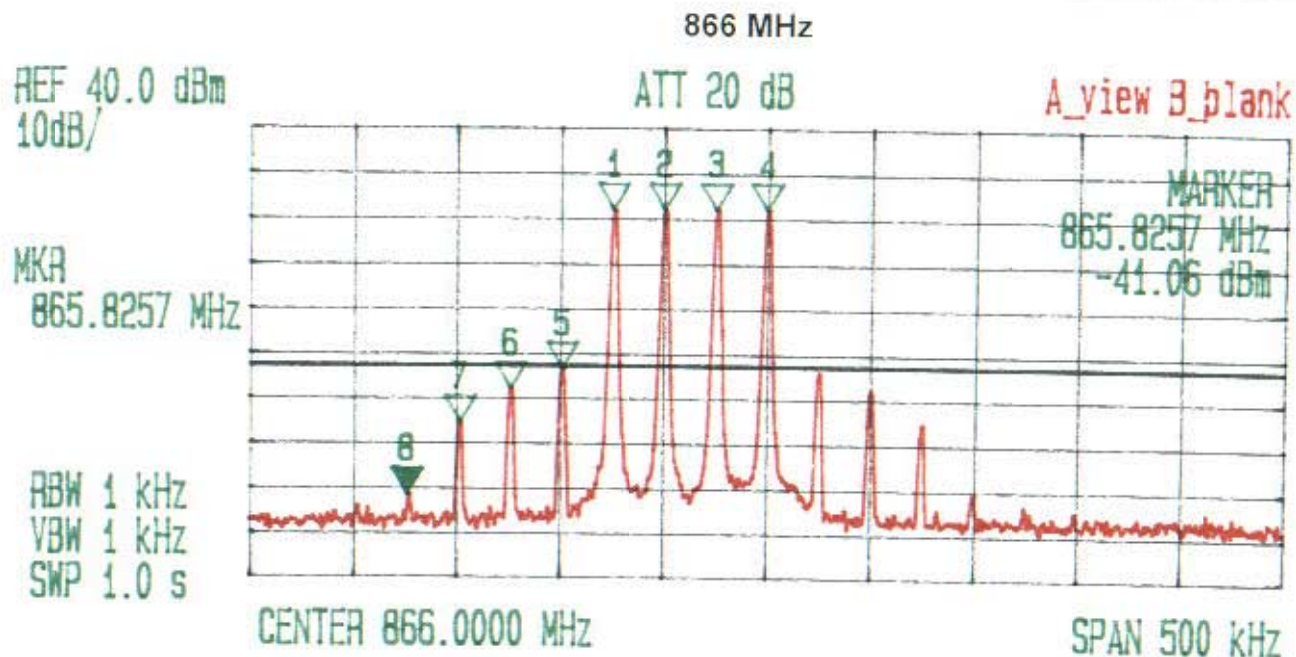


- RF IN
- ① -59.3 dBm
  - ② -59.2 dBm
  - ③ -59.1 dBm

\*\*\* Multi Marker List \*\*\*

No.	Freq (MHz)	Power (dBm)	Attenuation
No. 1:	865.9507 MHz	23.97 dBm	A
No. 2:	865.9756 MHz	23.97 dBm	A
No. 3:	866.0004 MHz	23.97 dBm	A
No. 4:	865.9254 MHz	-13.06 dBm	A
No. 5:	865.9006 MHz	-21.22 dBm	A
No. 6:	865.8753 MHz	-41.59 dBm	A
No. 7:			
No. 8:			
Δ:			

PLOT #179



- RF IN
- ① -20.4 dBm
  - ② -20.7 dBm
  - ③ -60.8 dBm
  - ④ -60.8 dBm

\*\*\* Multi Marker List \*\*\*

No.	Freq (MHz)	Power (dBm)	Attenuation
No. 1:	865.9250 MHz	22.19 dBm	A
No. 2:	865.9500 MHz	22.19 dBm	A
No. 3:	865.9750 MHz	22.28 dBm	A
No. 4:	865.9993 MHz	22.31 dBm	A
No. 5:	865.9007 MHz	-13.25 dBm	A
No. 6:	865.8757 MHz	-17.78 dBm	A
No. 7:	865.8514 MHz	-25.47 dBm	A
No. 8:	865.8257 MHz	-41.06 dBm	A
Δ:			



**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 866-869 MHz Output with      RF Input Signals  
RF In / Out Frequency     800     MHz

Date: May 30 2001  
Tested by: Hung Trinh

PLOT #180

*RF IN - -44.5 dBm*

Wed May 30 15:32:03 2001

REF 50.0 dBm  
10dB/

ATT 30 dB

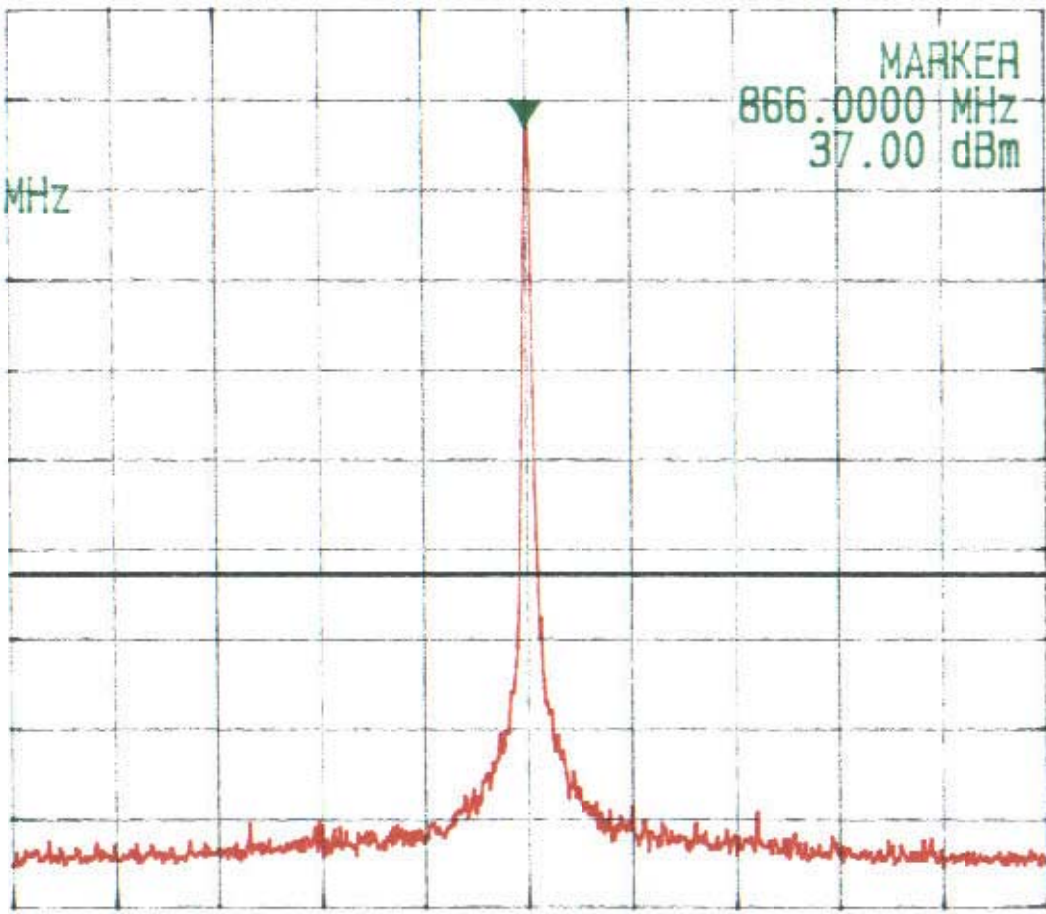
A\_write&max B\_plank

MKR  
866.0000 MHz

MARKER  
866.0000 MHz  
37.00 dBm

REF OFS  
31.3 dB

RBW  
1 kHz  
VBW  
1 kHz  
SWP  
1.0 s

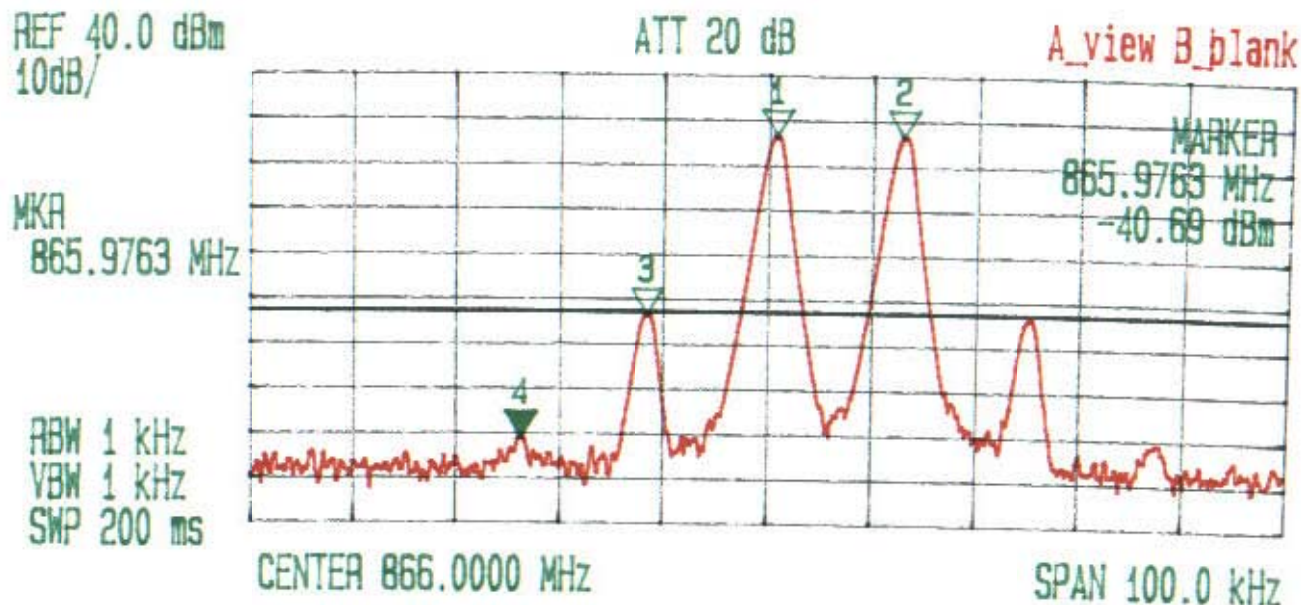


CENTER 866.0000 MHz

SPAN 500 kHz

PLOT # 181

866 MHz (12.5 kHz Channel Spacing)



RF IN

- ① -56.9 dBm
- ② -56.8 dBm

\*\*\* Multi Marker List \*\*\*

No.	Freq (MHz)	Power (dBm)	Label
No. 1:	866.0007 MHz	26.91 dBm	A
No. 2:	866.0129 MHz	26.88 dBm	A
No. 3:	865.9884 MHz	-13.03 dBm	A
No. 4:	865.9763 MHz	-40.69 dBm	A
No. 5:			
No. 6:			
No. 7:			
No. 8:			
Δ:			

PLOT # 182

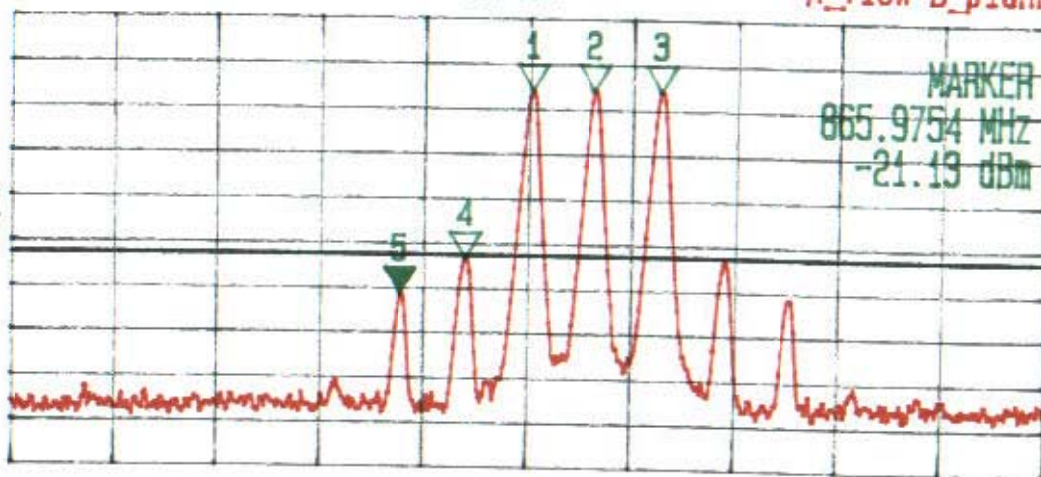
866 MHz (12.5 kHz Channel Spacing)

REF 40.0 dBm  
10dB/

ATT 20 dB

A\_view B\_plank

MKR  
865.9754 MHz



RBW 1 kHz  
VBW 1 kHz  
SWP 400 ms

CENTER 866.0000 MHz

SPAN 200.0 kHz

RF IN

- ① -59.0 dBm
- ② -58.9 dBm
- ③ -58.8 dBm

\*\*\* Multi Marker List \*\*\*

No. 1:	866.0006 MHz	24.03 dBm	A
No. 2:	866.0126 MHz	24.03 dBm	A
No. 3:	866.0254 MHz	24.06 dBm	A
No. 4:	865.9880 MHz	-13.13 dBm	A
No. 5:	865.9754 MHz	-21.13 dBm	A
No. 6:			
No. 7:			
No. 8:			
Δ:			

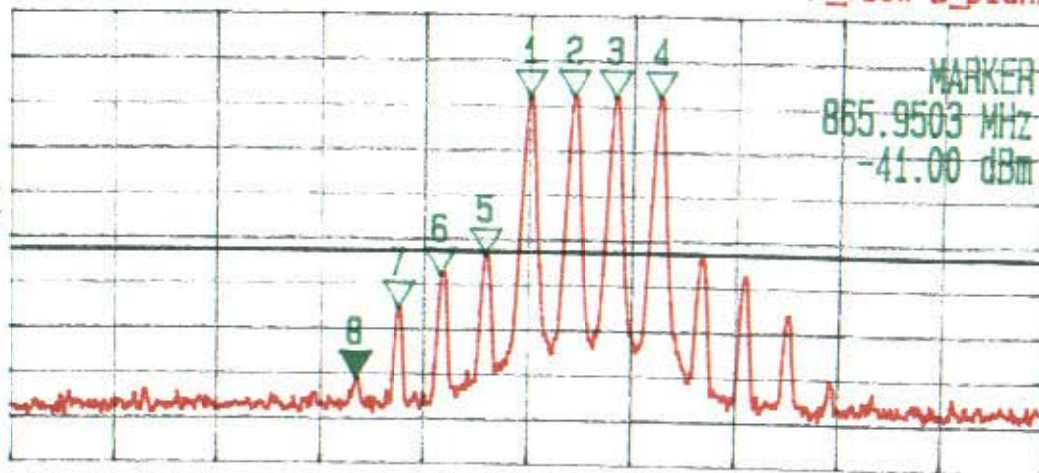
866 MHz (12.5 kHz Channel Spacing)

REF 40.0 dBm  
10dB/

ATT 20 dB

A\_view B\_blank

MKR  
865.9503 MHz



RBW 1 kHz  
VBW 1 kHz  
SWP 600 ms

CENTER 866.0000 MHz

SPAN 300.0 kHz

RF IN

- ① -60.4 dBm
- ② -60.8 dBm
- ④ -60.5 dBm
- ⑤ -60.6 dBm

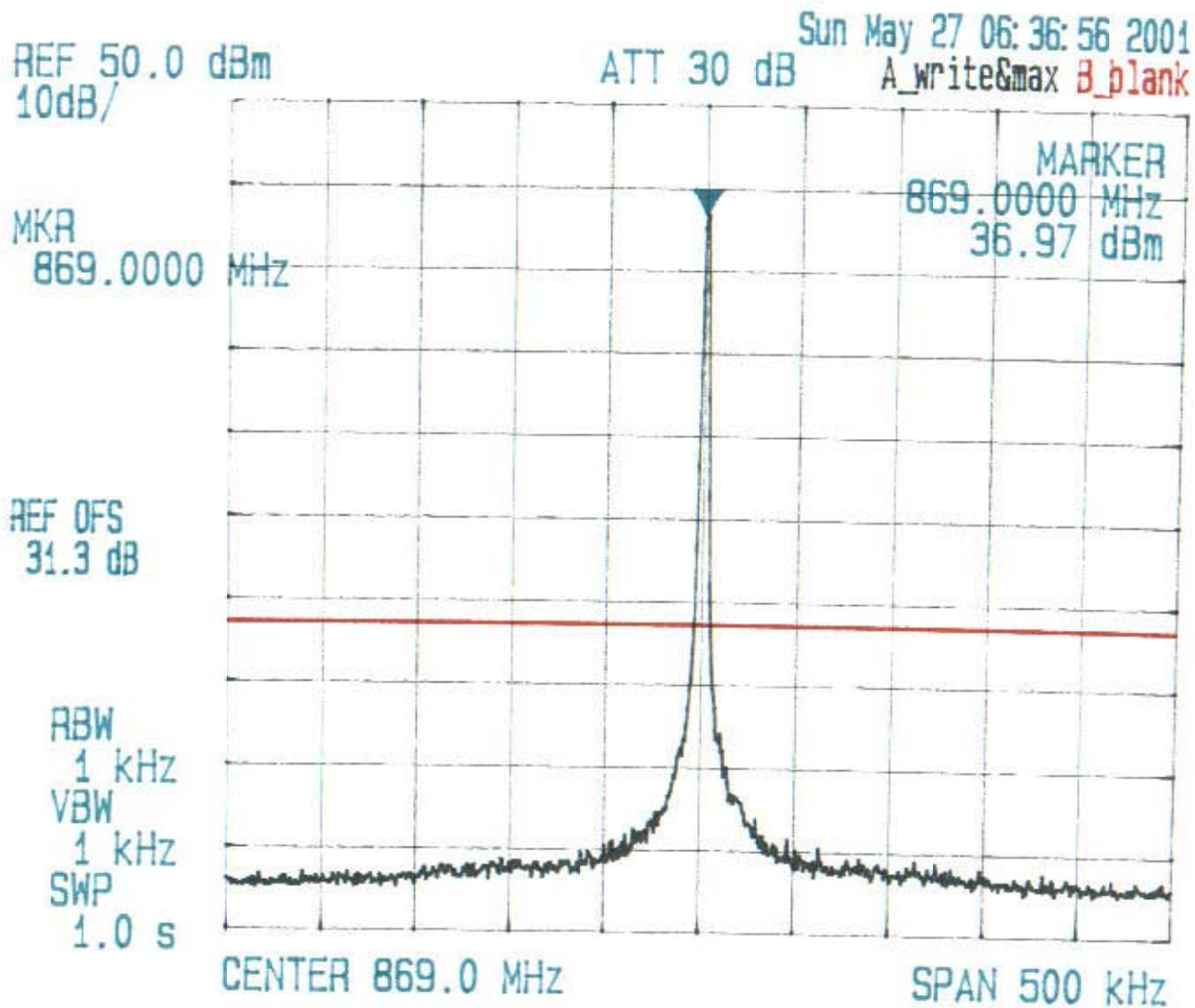
\*\*\* Multi Marker List \*\*\*

No.	Freq (MHz)	Power (dBm)	Attenuation
No.1:	866.0000	22.22	A
No.2:	866.0129	22.22	A
No.3:	866.0249	22.34	A
No.4:	866.0377	22.31	A
No.5:	865.9876	-13.25	A
No.6:	865.9747	-17.94	A
No.7:	865.9627	-25.06	A
No.8:	865.9503	-41.00	A
Δ:			



PLOT # 184

RF IN - 44 dBm





**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Intermodulation with 2 RF Input signals in 865 - 869 MHz  
868.9875, 869 MHz

Date: May 30, 2001  
Tested by: Hung Trinh

PLOT # 185

869 MHz (12.5 kHz Channel Spacing)

REF 40.0 dBm  
10dB/

ATT 20 dB

A\_write&max B\_plank

MKA  
868.9883 MHz

RBW 1 kHz  
VBW 1 kHz  
SWP 400 ms



MARKER  
868.9883 MHz  
26.81 dBm

- RF IN
- ① -55.7 dBm
  - ② -55.8 dBm

CENTER 869.0000 MHz

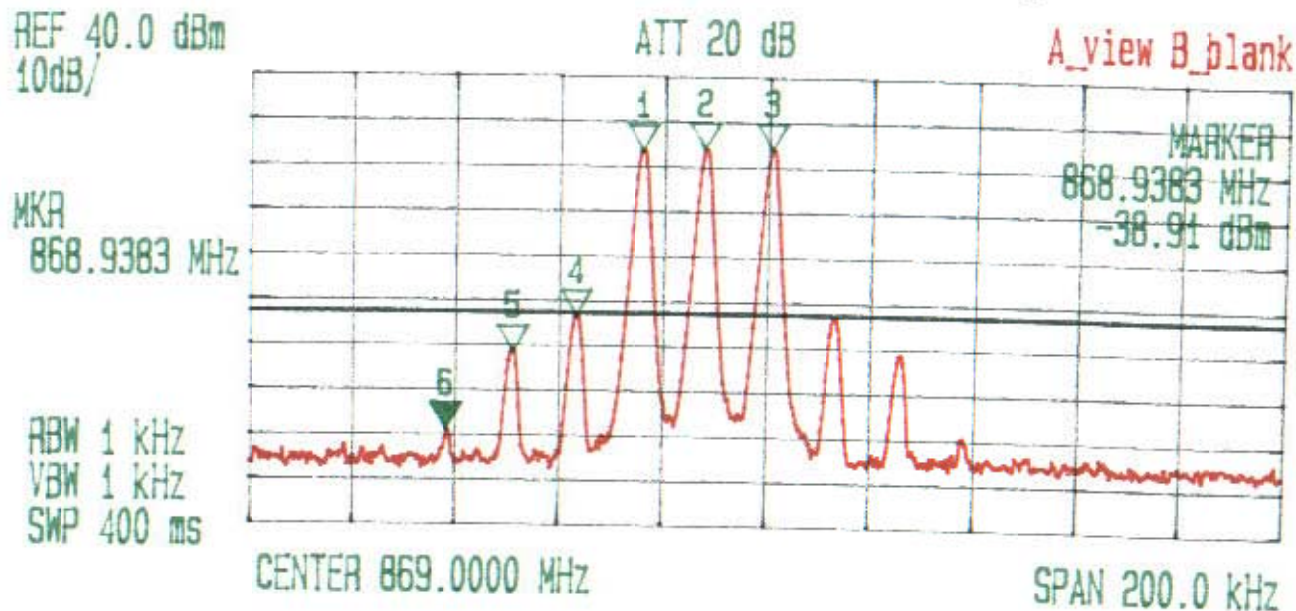
SPAN 200.0 kHz

\*\*\* Multi Marker List \*\*\*

No. 1:	868.9883 MHz	26.81 dBm	A
No. 2:	869.0003 MHz	26.81 dBm	A
No. 3:	868.9763 MHz	-13.16 dBm	A
No. 4:	868.9646 MHz	-38.06 dBm	A
No. 5:			
No. 6:			
No. 7:			
No. 8:			
Δ:			

PLOT #186

869 MHz (12.5 kHz Channel Spacing)



RF IN

- ① -58.4 dBm
- ② -58.5 dBm
- ③ -58.6 dBm

\*\*\* Multi Marker List \*\*\*

No.	Frequency (MHz)	Power (dBm)	Marker
No. 1:	868.9757	23.97	A
No. 2:	868.9877	24.06	A
No. 3:	869.0006	24.00	A
No. 4:	868.9631	-13.06	A
No. 5:	868.9511	-21.44	A
No. 6:	868.9383	-38.91	A
No. 7:			
No. 8:			
Δ:			



**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Intermodulation with 4 RF Input signals in 866 - 869 MHz  
868.9625, 868.975, 868.9875, 869 MHz

Date: May 30 2001  
Tested by: Hung Trinh

PLOT #187

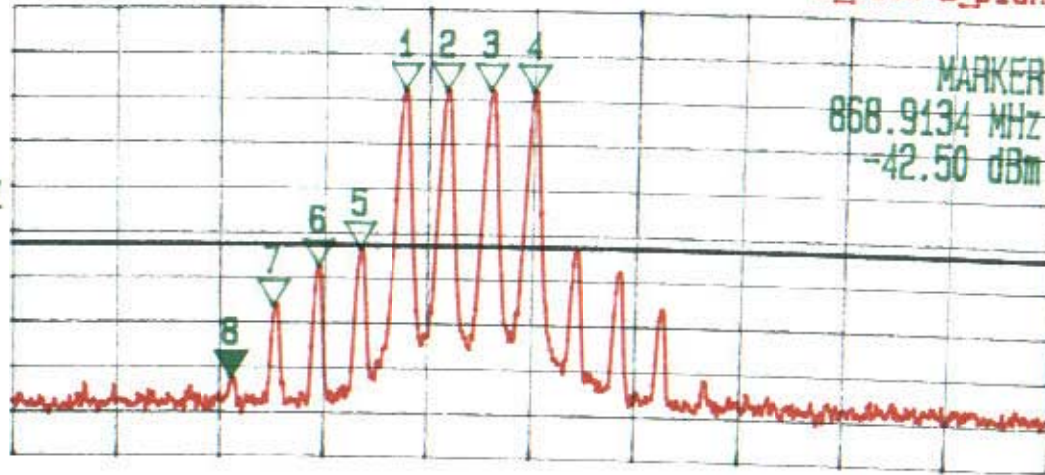
869 MHz (12.5 kHz Channel Spacing)

REF 40.0 dBm  
10dB/

ATT 20 dB

A\_view B\_plank

MKR  
868.9134 MHz



RF IN

- ① -60.3 dBm
- ② -60.4 dBm
- ③ -60.3 dBm
- ④ -60.5 dBm

CENTER 869.0000 MHz

SPAN 300.0 kHz

\*\*\* Multi Marker List \*\*\*

No. 1:	868.9631 MHz	22.13 dBm	A
No. 2:	868.9751 MHz	22.13 dBm	A
No. 3:	868.9876 MHz	22.16 dBm	A
No. 4:	869.0000 MHz	22.00 dBm	A
No. 5:	868.9503 MHz	-13.03 dBm	A
No. 6:	868.9383 MHz	-17.44 dBm	A
No. 7:	868.9254 MHz	-26.47 dBm	A
No. 8:	868.9134 MHz	-42.50 dBm	A
Δ:			



**UltraTech**  
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KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 824-849 MHz Output with 1 RF Input Signals  
RF In / Out Frequency 824 MHz

Date: May 25 2001  
Tested by: Hung Trinh

PLOT # 188

RF IN -45 dBm

Fri May 25 14:04:52 2001

REF 50.0 dBm  
10dB/

ATT 30 dB

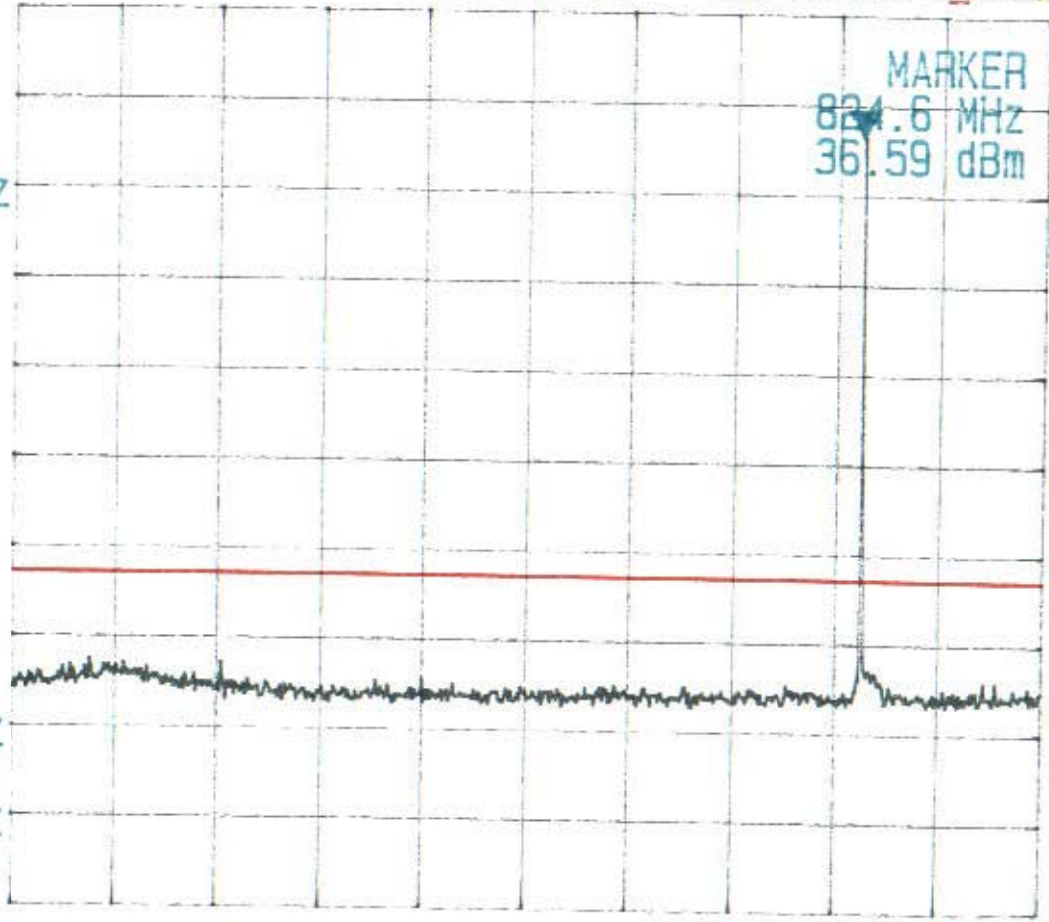
A\_write&max B\_blank

MKR  
824.6 MHz

MARKER  
824.6 MHz  
36.59 dBm

REF OFS  
32.9 dB

RBW  
100 kHz  
VBW  
100 kHz  
SWP  
200 ms



START 10.0 MHz

STOP 1.000 GHz



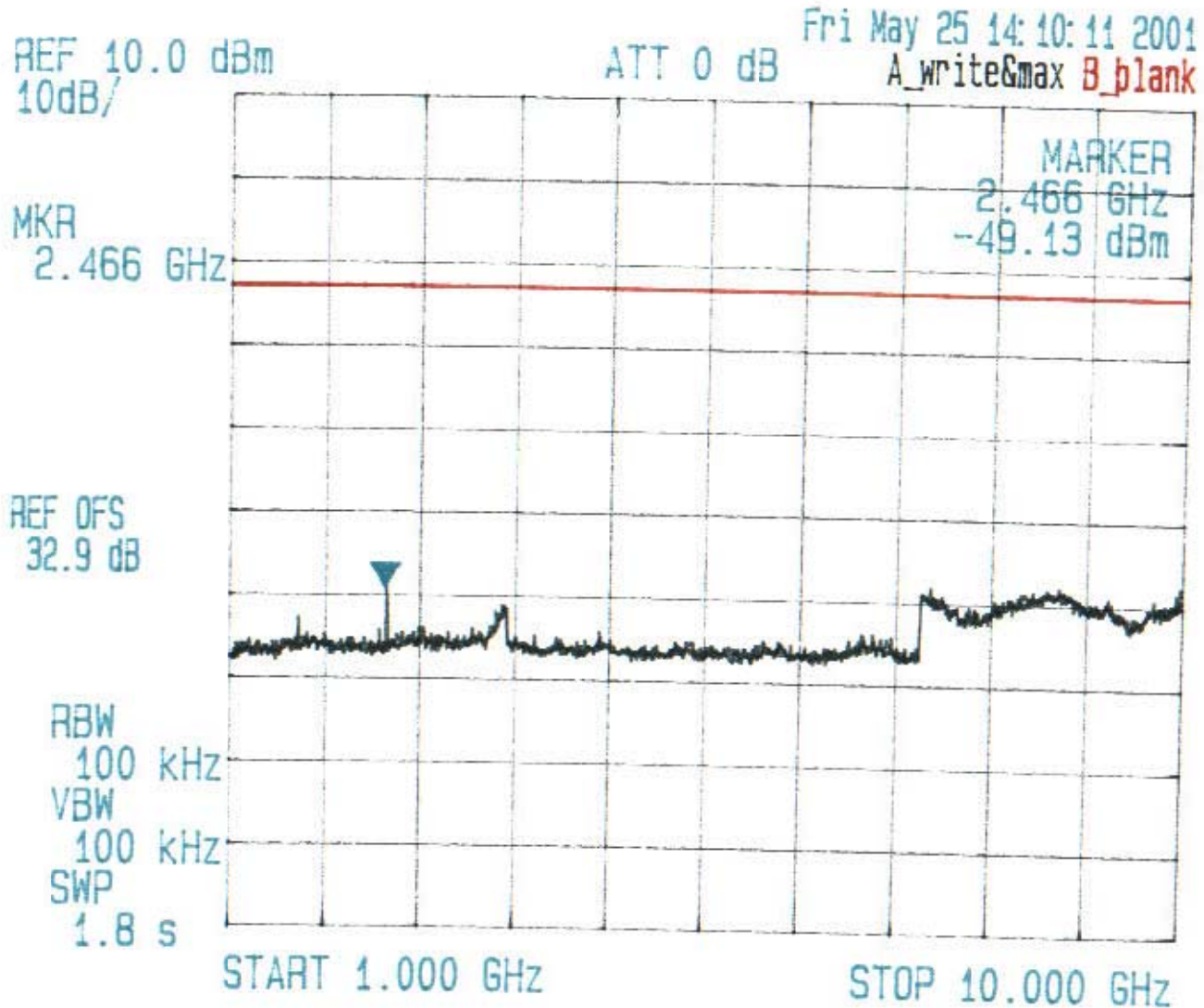
**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 824 - 849 MHz Output with 1 RF Input Signals  
RF In / Out Frequency 824 MHz

*RF IN - 45 dBm*

Date: May 25 2001  
Tested by: Hung Trinh

PLOT#189





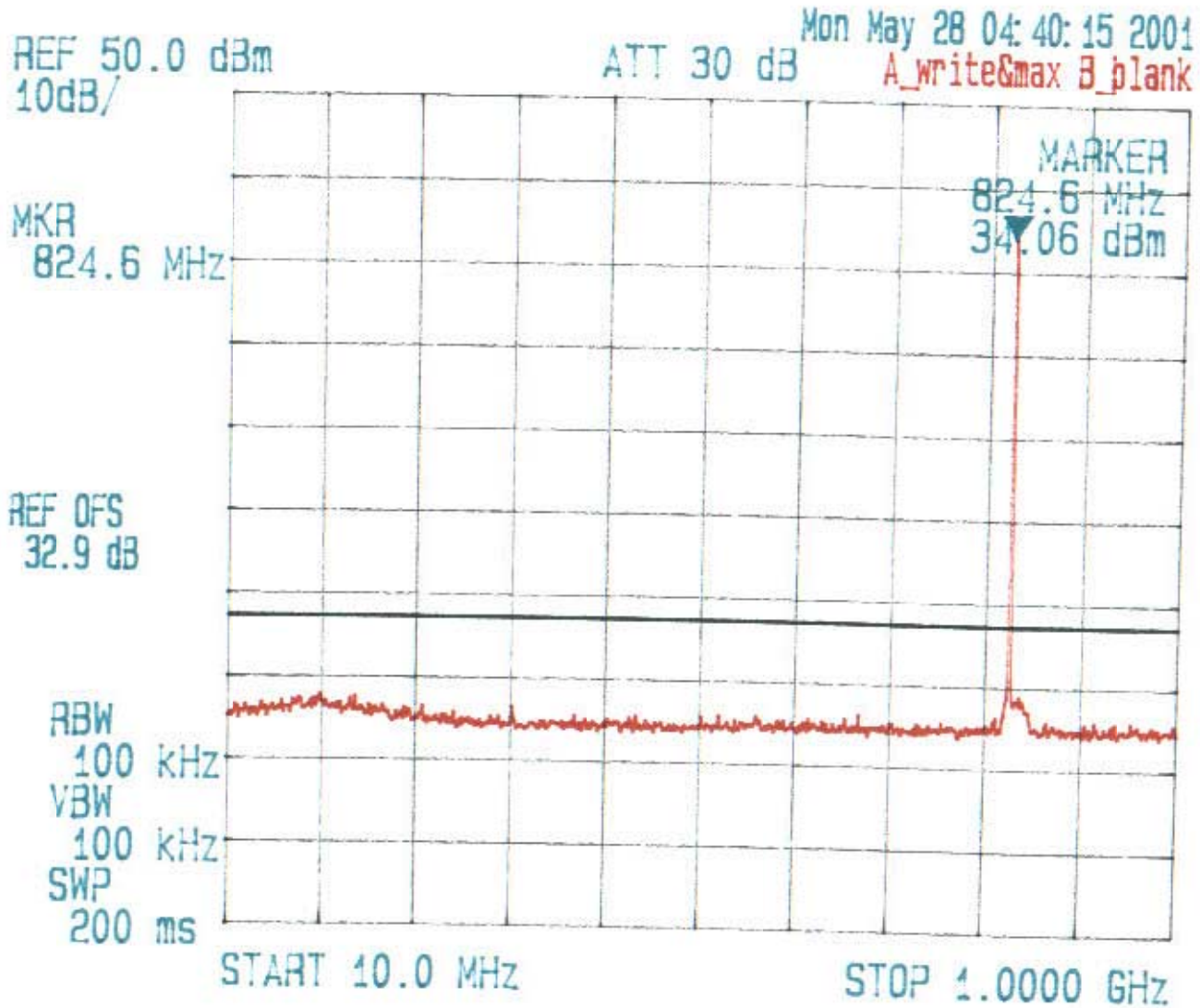
**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 – 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 824 - 849 MHz Output with 4 RF Input Signals  
RF In / Out Frequency 824, 824.03, 824.06, 824.09 MHz

Date: May 28 2001  
Tested by: Hung Trinh

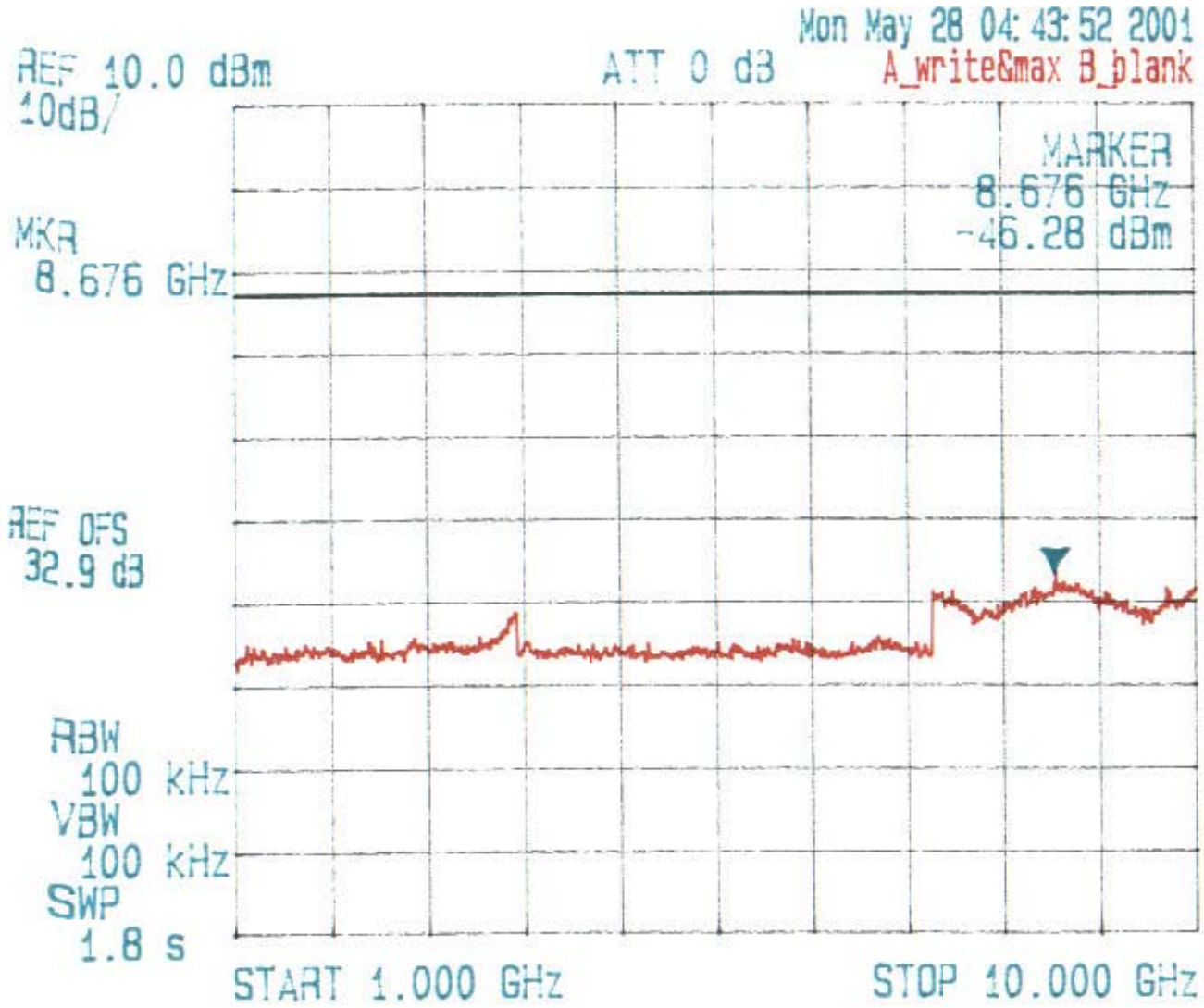
PLOT #190

824 MHz



PLOT # 191

824 MHz







**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 834-849 MHz Output with 1 RF Input Signals  
RF In / Out Frequency 836.5 MHz

Date: May 25 2001  
Tested by: Hung Trinh

PLOT #192

RF IN -45 dBm

Fri May 25 16:16:04 2001

REF 50.0 dBm  
10dB/

ATT 30 dB

A\_view B\_blank

MKR  
838.8 MHz

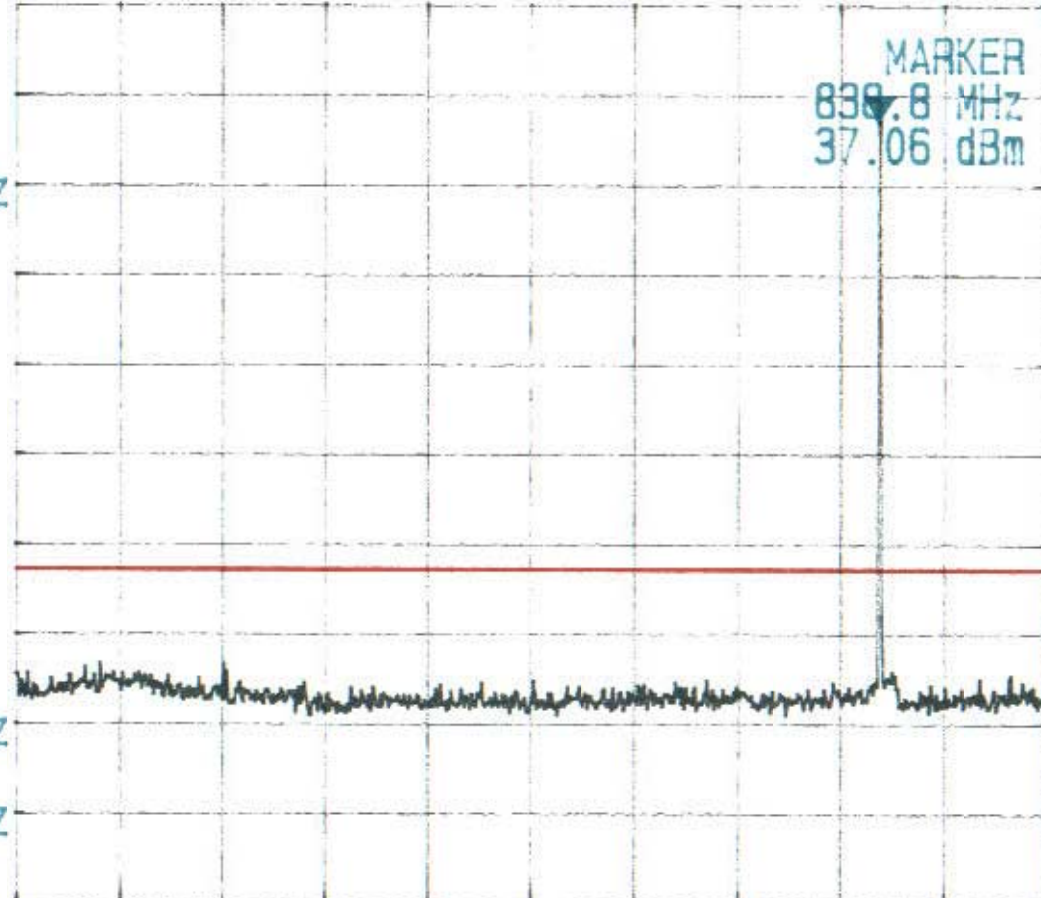
MARKER  
838.8 MHz  
37.06 dBm

REF OFS  
32.9 dB

RBW  
100 kHz  
VBW  
100 kHz  
SWP  
200 ms

START 10 MHz

STOP 1.0000 GHz





**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 844-849 MHz Output with 1 RF Input Signals  
RF In / Out Frequency 836.5 MHz

Date: May 25 2001  
Tested by: Hung Trinh

PLOT # 193

*RF IN - 45 dBm*

Fri May 25 16:09:05 2001

REF 10.0 dBm  
10dB/

ATT 0 dB

A\_write&max B\_blank

MKR  
2.517 GHz

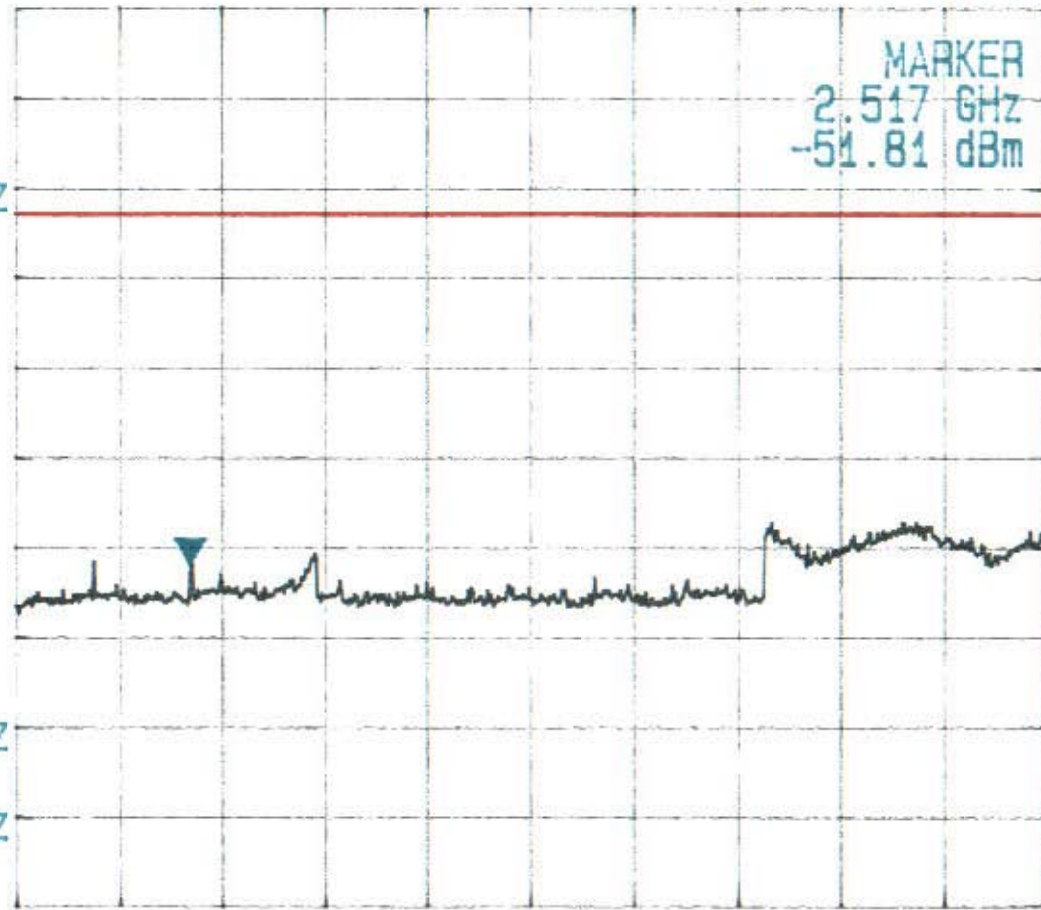
MARKER  
2.517 GHz  
-51.81 dBm

REF OFS  
32.9 dB

RBW  
100 kHz  
VBW  
100 kHz  
SWP  
1.8 s

START 1.000 GHz

STOP 10.000 GHz





**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 824-849 MHz Output with 4 RF Input Signals  
RF In / Out Frequency 836.44, 836.47, 836.5, 836.53 MHz

Date: May 28 2001  
Tested by: Hung Trinh

PLOT # 194

836.5 MHz

Mon May 28 04:09:20 2001

REF 50.0 dBm  
10dB/

ATT 30 dB

A\_write&max B\_plank

MKR  
837.4 MHz

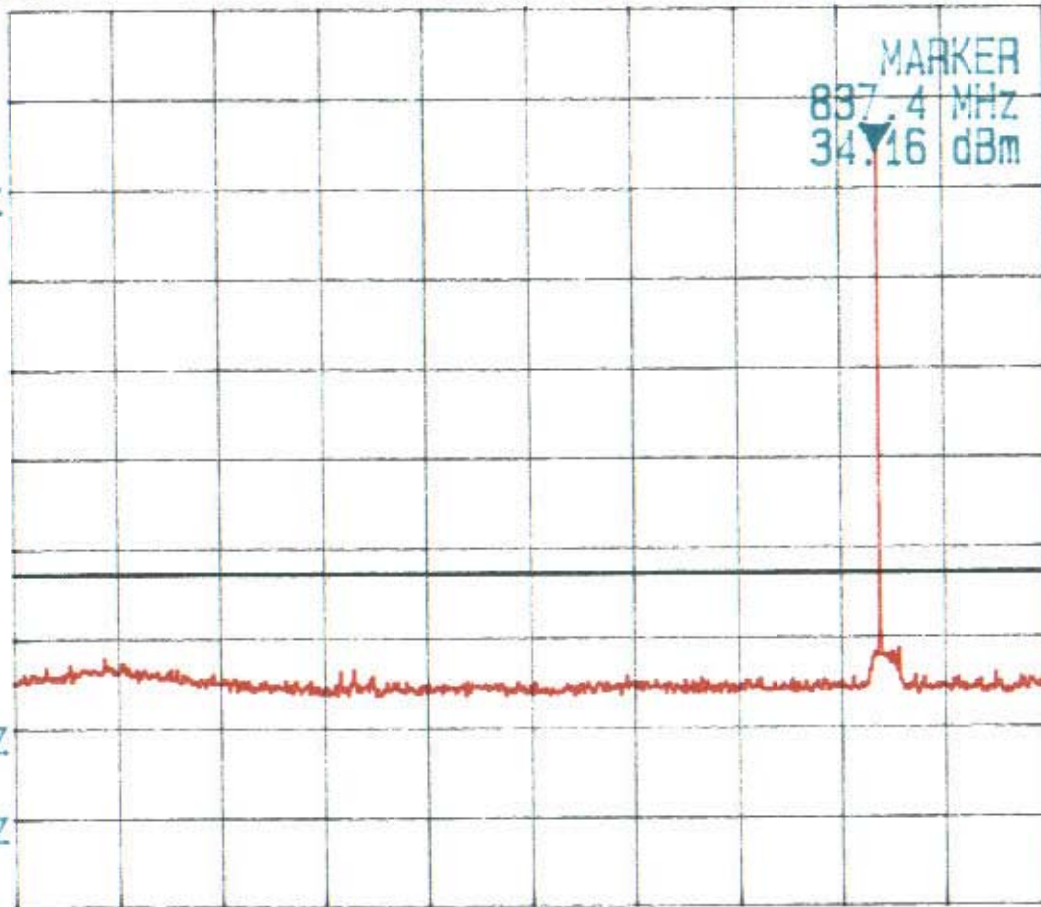
MARKER  
837.4 MHz  
34.16 dBm

REF OFS  
32.9 dB

RBW  
100 kHz  
VBW  
100 kHz  
SWP  
200 ms

START 10.0 MHz

STOP 1.0000 GHz





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Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 – 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 824 - 849 MHz Output with 4 RF Input Signals  
RF In / Out Frequency 836.44, 836.47, 836.5, 836.53 MHz

Date: May 28 2001  
Tested by: Hung Trinh

PLOT # 195

836.5 MHz

Mon May 28 03:57:26 2001

REF 10.0 dBm  
10dB/

ATT 0 dB

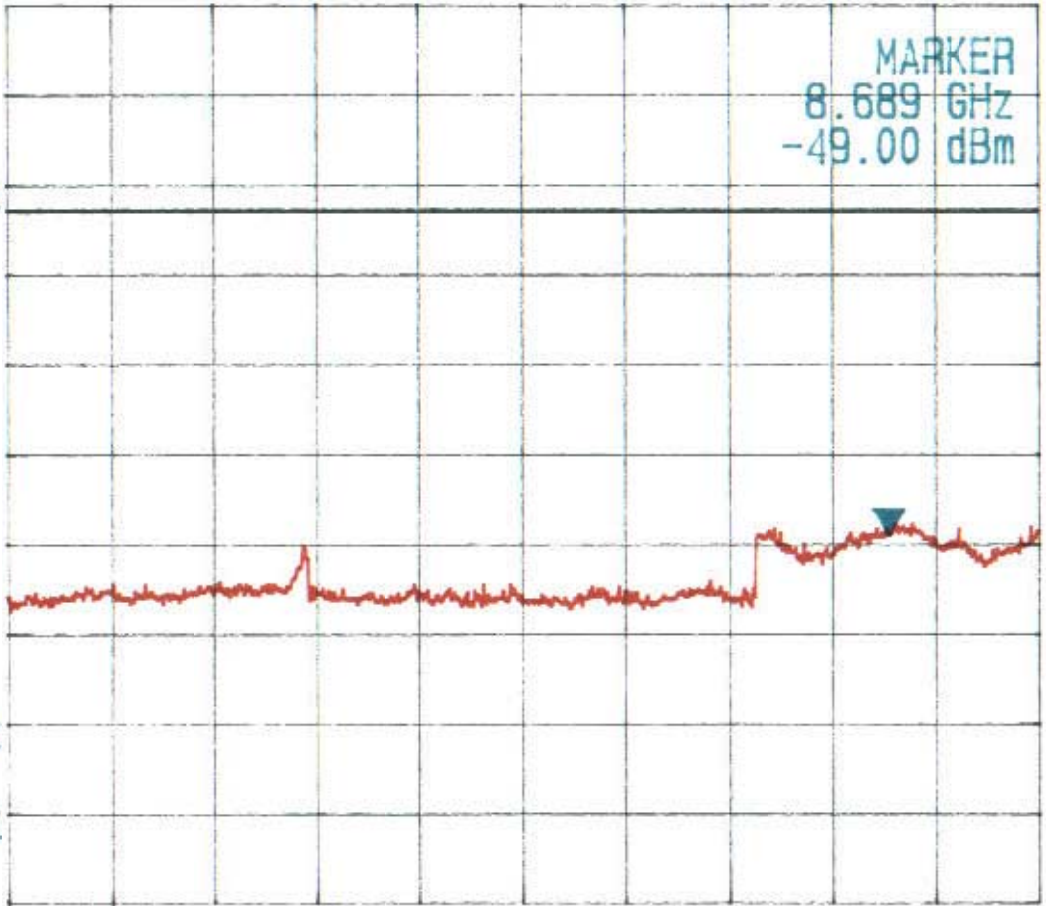
A\_write&max B\_plank

MKR  
8.689 GHz

MARKER  
8.689 GHz  
-49.00 dBm

REF OFS  
32.9 dB

RBW  
100 kHz  
VBW  
100 kHz  
SWP  
1.8 s



START 1.000 GHz

STOP 10.000 GHz



**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 824-849 MHz Output with \_\_\_ RF Input Signals  
RF In / Out Frequency 849 MHz

Date: May 25 2001  
Tested by: Hung Trinh

PLOT #196

RF IN -45 dBm

Fri May 25 16:19:17 2001

REF 50.0 dBm  
10dB/

ATT 30 dB

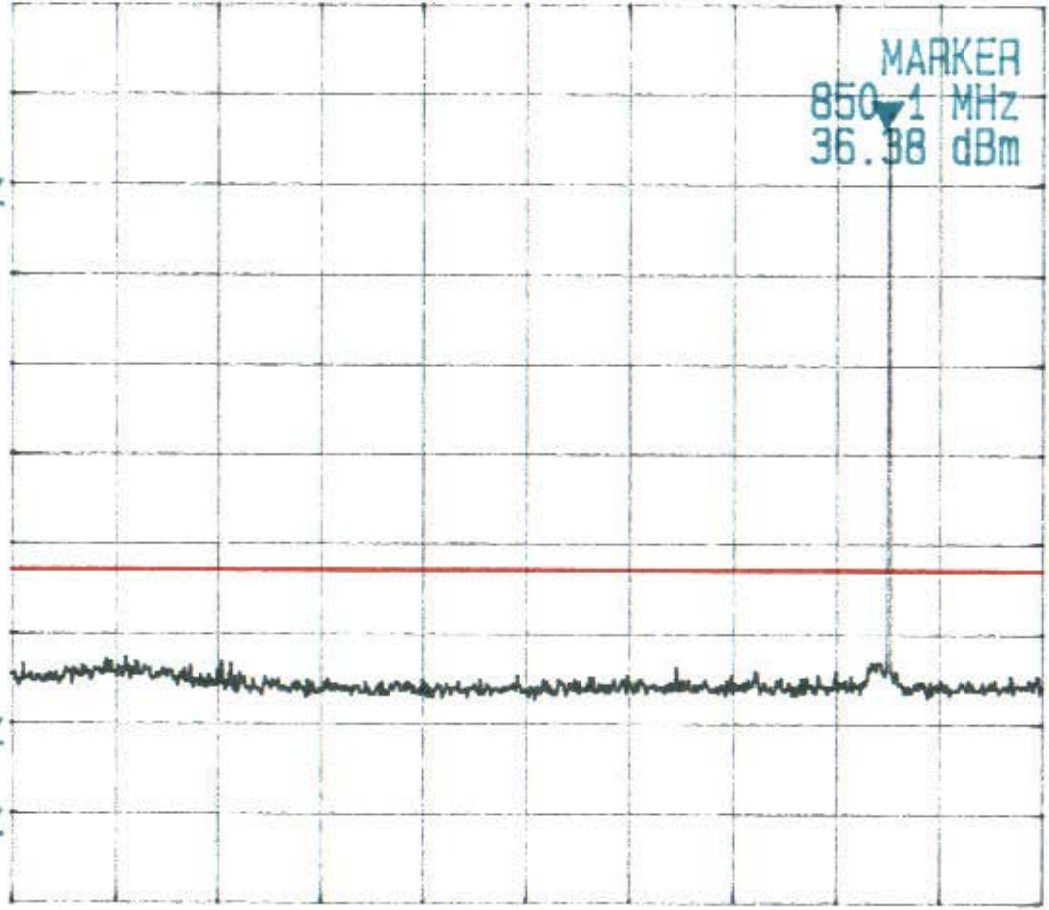
A\_write&max B\_plank

MKR  
850.1 MHz

MARKER  
850.1 MHz  
36.38 dBm

REF OFS  
32.9 dB

RBW  
100 kHz  
VBW  
100 kHz  
SWP  
200 ms



START 10 MHz

STOP 1.0000 GHz



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Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 824-849 MHz Output with 1 RF Input Signals  
RF In / Out Frequency 849 MHz

Date: May 25 2001  
Tested by: Hung Trinh

PLOT # 197

RF IN -45 dBm

Fri May 25 16:05:18 2001

REF 10.0 dBm  
10dB/

ATT 0 dB

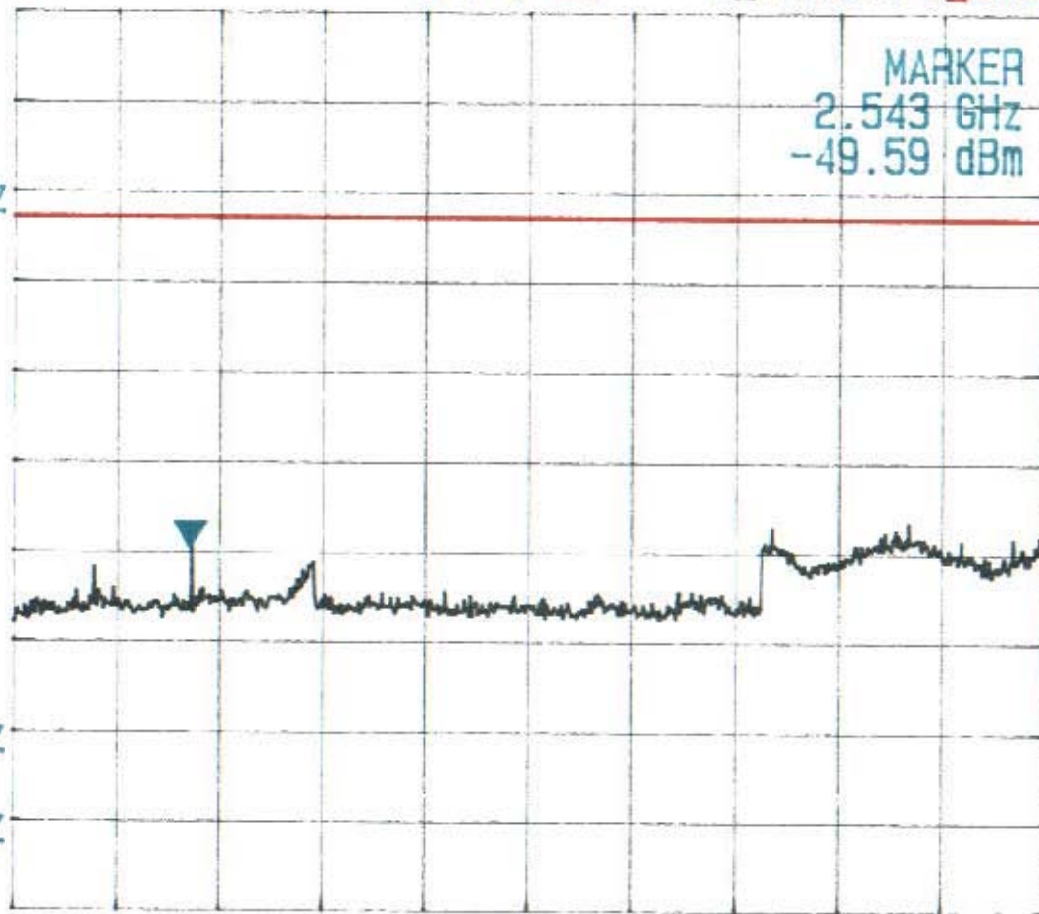
A\_write&max B\_blank

MKR  
2.543 GHz

MARKER  
2.543 GHz  
-49.59 dBm

REF OFS  
32.9 dB

RBW  
100 kHz  
VBW  
100 kHz  
SWP  
1.8 s



START 1.000 GHz

STOP 10.000 GHz



**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 824 - 849 MHz Output with 4 RF Input Signals  
RF In / Out Frequency 848.91, 848.94, 848.97, 849 MHz

Date: May 28 2001  
Tested by: Hung Trinh

PLOT #198

849 MHz

Mon May 28 03:50:51 2001

REF 50.0 dBm  
10dB/

ATT 30 dB

A\_write&max B\_blank

MKR  
850.1 MHz

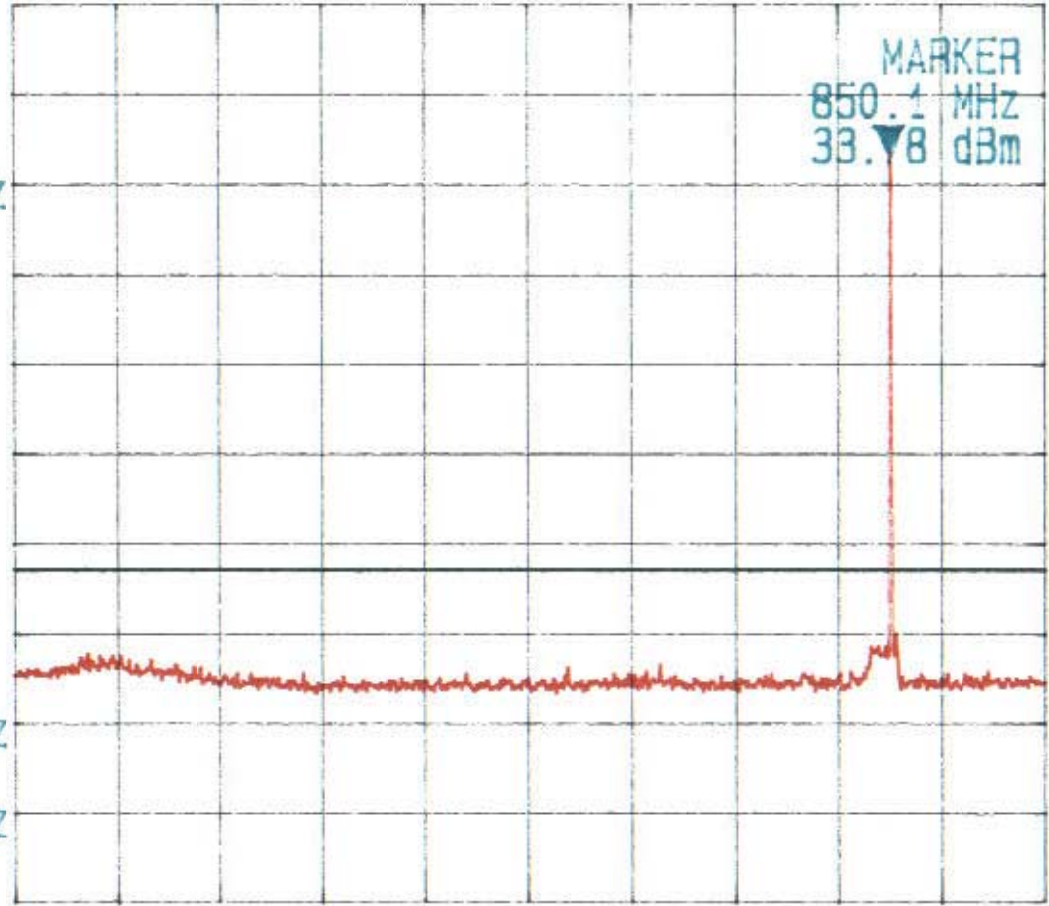
MARKER  
850.1 MHz  
33.8 dBm

REF DFS  
32.9 dB

RBW  
100 KHz  
VBW  
100 KHz  
SWP  
200 ms

START 10.0 MHz

STOP 1.0000 GHz





**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 849-849 MHz Output with 4 RF Input Signals  
RF In / Out Frequency 848.91, 848.94, 848.97, 849 MHz

Date: May 28 2001  
Tested by: Hung Trinh

PLOT #199

849 MHz

Mon May 28 03:53:52 2001

REF 10.0 dBm  
10dB/

ATT 0 dB

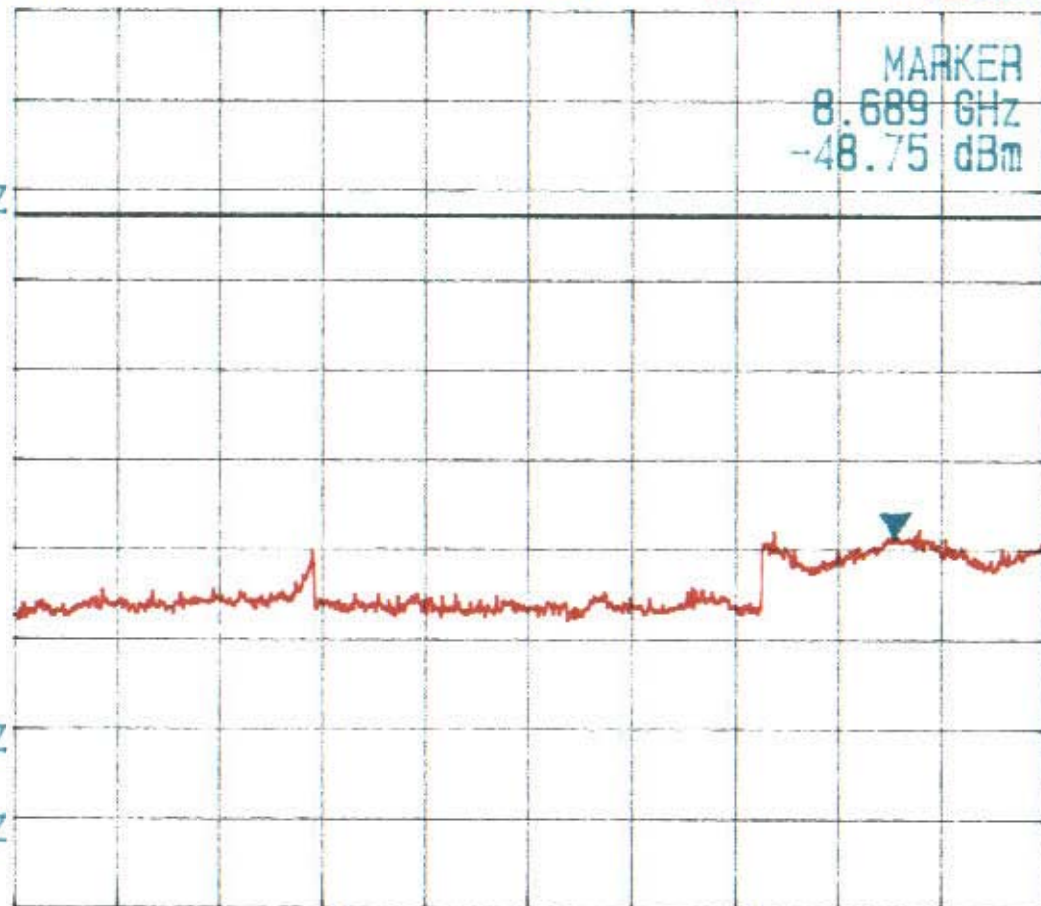
A\_write&max B\_blank

MKR  
8.689 GHz

MARKER  
8.689 GHz  
-48.75 dBm

REF OFS  
32.9 dB

RBW  
100 kHz  
VBW  
100 kHz  
SWP  
1.8 s



START 1.000 GHz

STOP 10.000 GHz





**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 869-894 MHz Output with 1 RF Input Signals  
RF In / Out Frequency 869 MHz

Date: May 25 2001  
Tested by: Hung Trinh

PLOT#200

*RF IN - 45 dBm*

Fri May 25 15:03:58 2001

REF 50.0 dBm  
10dB/

ATT 30 dB

A\_write&max B\_blank

MKR  
869.9 MHz

MARKER  
869.9 MHz  
36.69 dBm

REF OFS  
32.9 dB

RBW  
100 kHz  
VBW  
100 kHz  
SWP  
200 ms

START 10 MHz

STOP 1.0000 GHz

