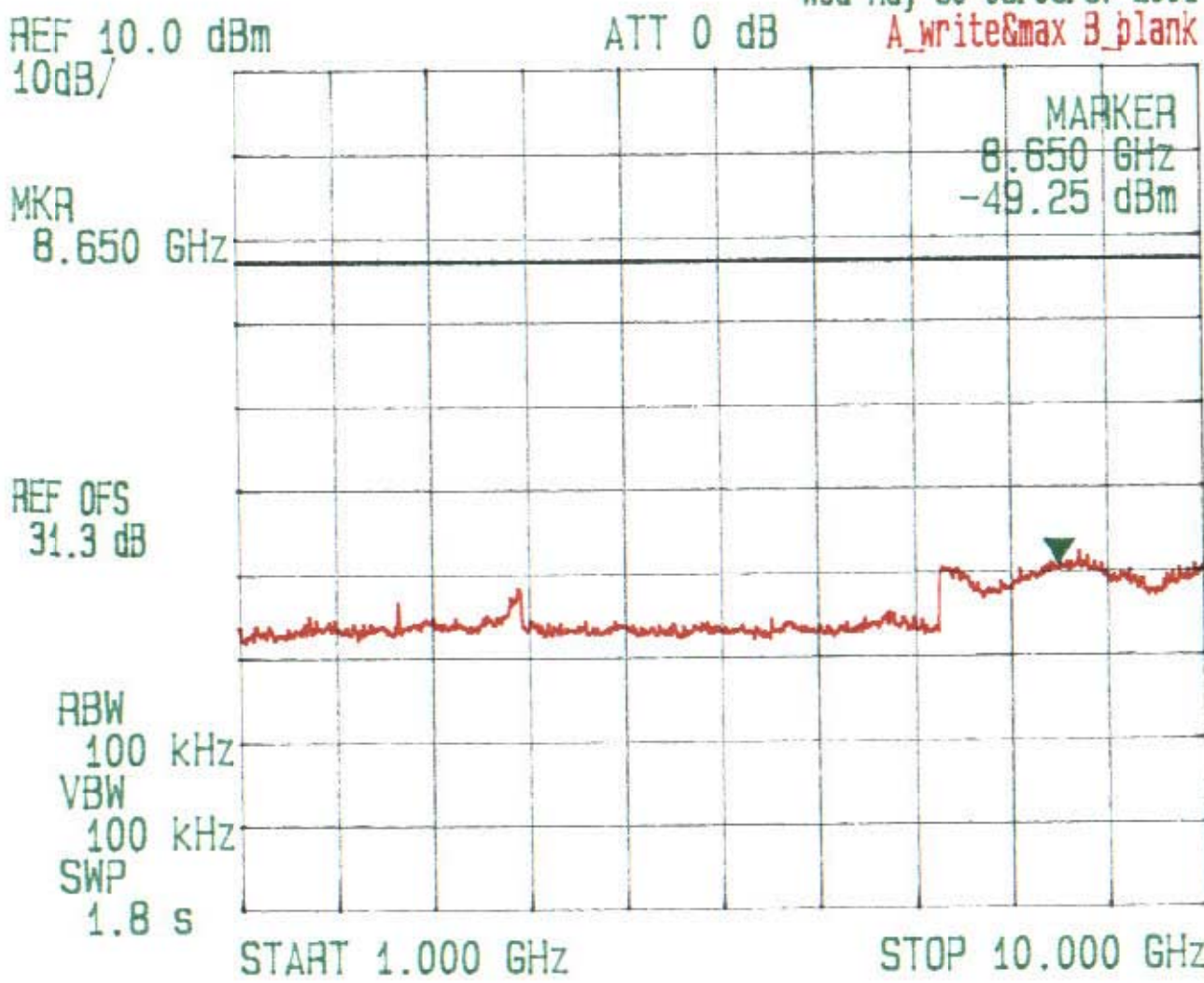


PLOT # 251

824MHz (12.5 kHz Channel Spacing)

Wed May 30 05:08:57 2001





**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 851 MHz

Date: May 27 2001  
Tested by: Hung Trinh

PLOT #252

RF IN -44.5

Sun May 27 05:52:12 2001

REF 50.0 dBm  
10dB/

ATT 30 dB

A\_write&max 3\_plank

MKR  
852.9 MHz

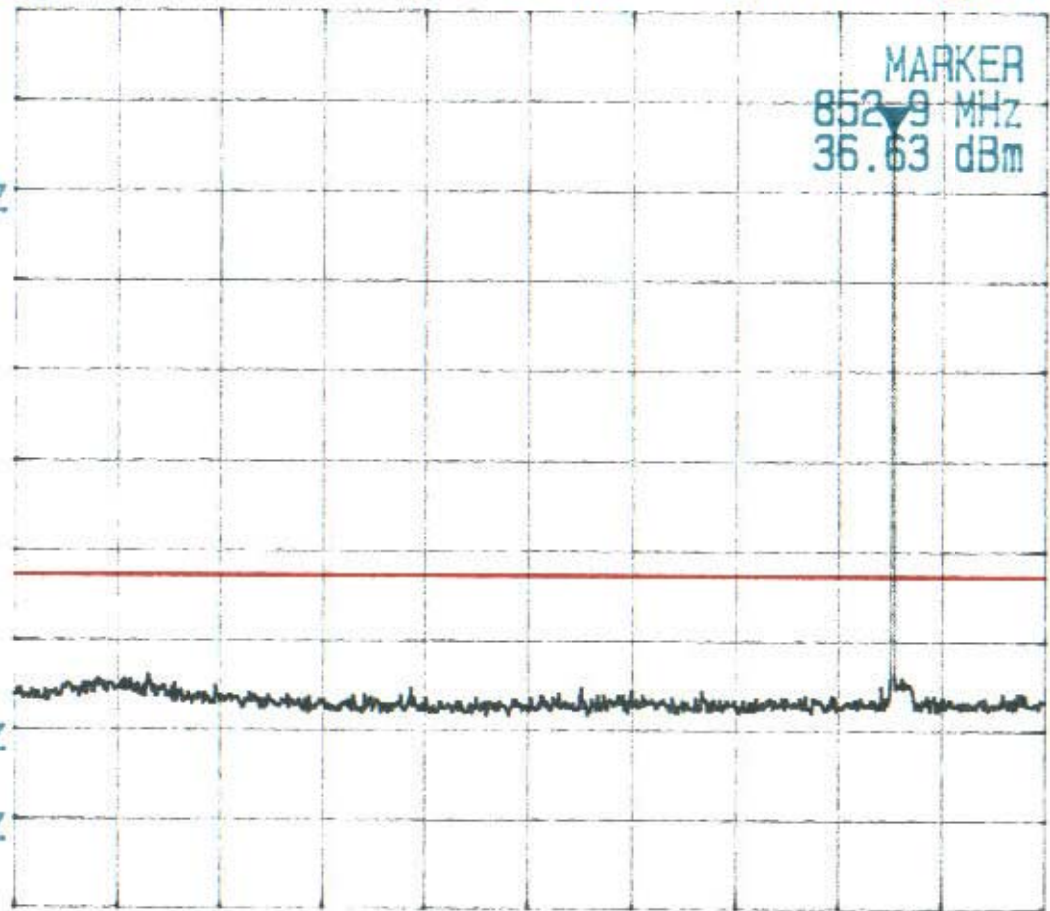
MARKER  
852.9 MHz  
36.63 dBm

REF OFS  
31.3 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 @ 851-866 MHz Output with 1 RF Input Signals  
RF In / Out Frequency 851 MHz

Date: May ~~27~~ 2001  
Tested by: Hung Trinh

PLOT# 253

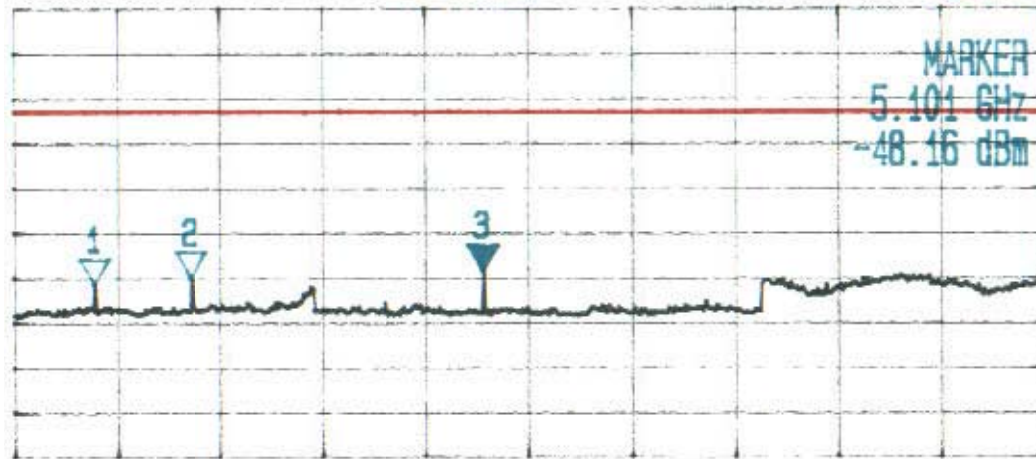
RF IN - 445

REF 10.0 dBm  
10dB/

ATT 0 dB

A\_write&max B\_blank

MKR  
5.101 GHz



RBW 100 kHz  
VBW 100 kHz  
SWP 1.8 s

START 1.000 GHz

STOP 10.000 GHz

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

No. 1:	1.694 GHz	-51.13 dBm	A
No. 2:	2.543 GHz	-49.94 dBm	A
No. 3:	5.101 GHz	-48.16 dBm	A
No. 4:			
No. 5:			
No. 6:			
No. 7:			
No. 8:			
Δ:			



**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 851 - 866 MHz Output with 4 RF Input Signals  
RF In / Out Frequency 851, 851.025, 851.05, 851.075 MHz

Date: May 30 2001  
Tested by: Hung Trinh

PLOT #254

851 MHz

Wed May 30 06:19:34 2001

REF 50.0 dBm  
10dB/

ATT 30 dB

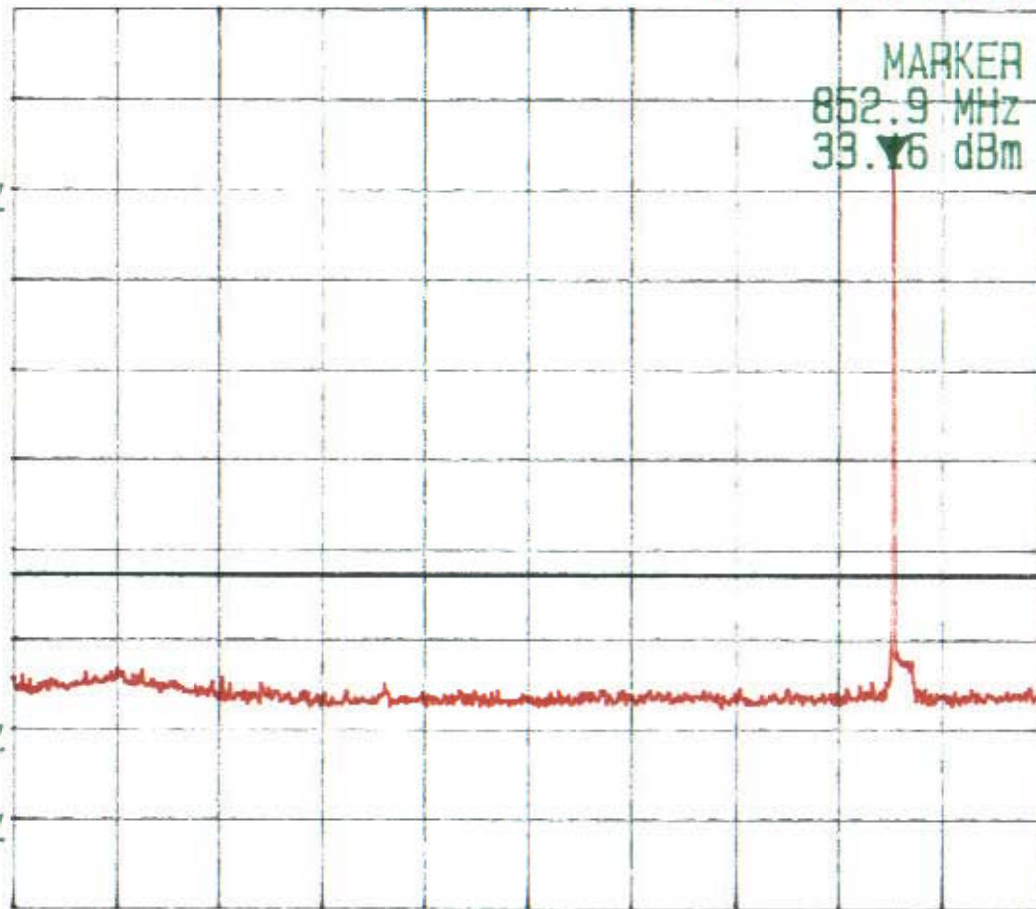
A\_write&max B\_plank

MKR  
852.9 MHz

MARKER  
852.9 MHz  
33.76 dBm

REF OFS  
31.3 dB

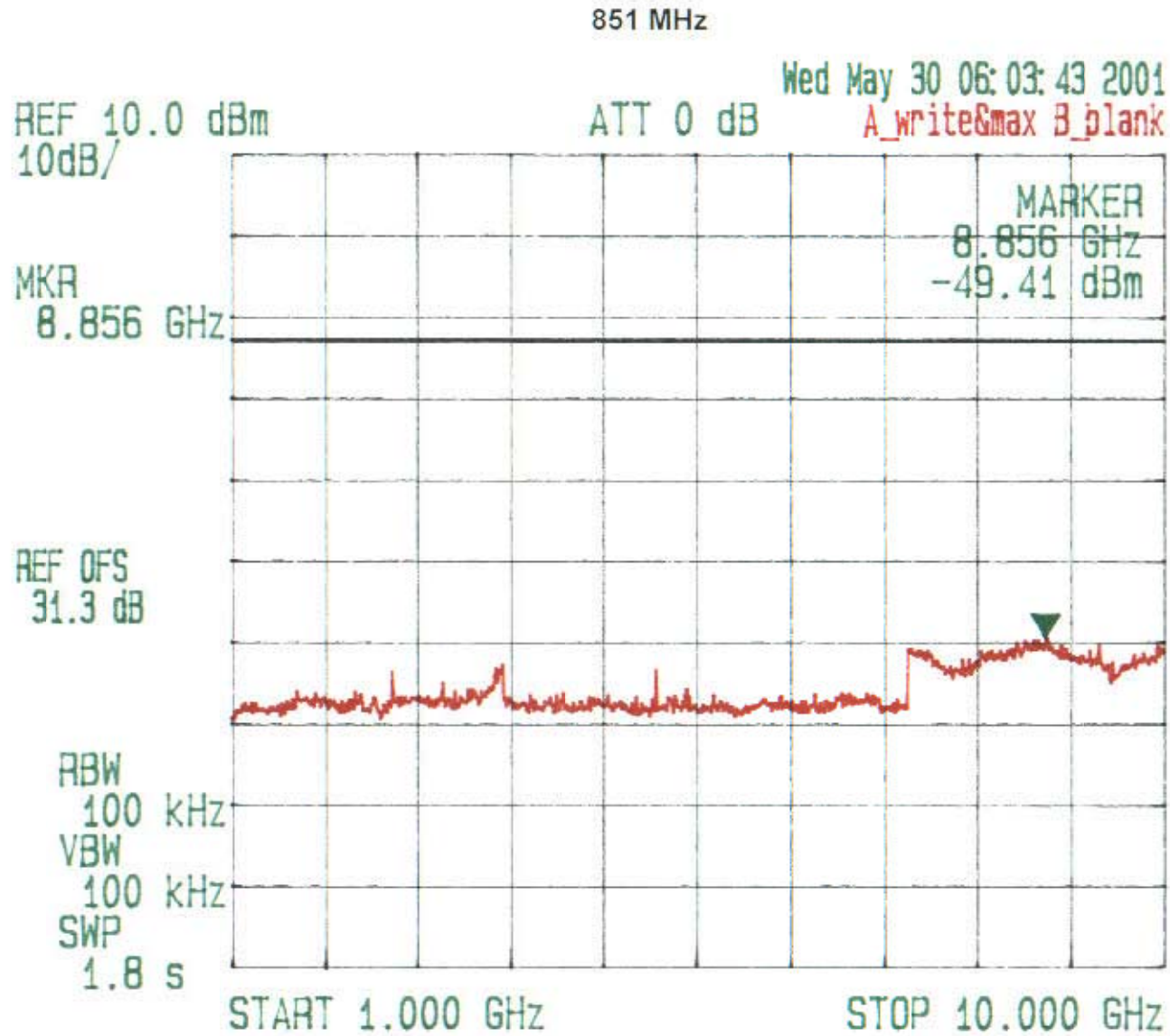
RBW  
100 kHz  
VBW  
100 kHz  
SWP  
200 ms



START 10.0 MHz

STOP 1.0000 GHz

PLOT #255





**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 858.5 MHz

Date: May 27 2001  
Tested by: Hung Trinh

PLOT # 256

RF IN -45.5

Sun May 27 06:19:05 2001

REF 50.0 dBm  
10dB/

ATT 30 dB

A\_write&max B\_plank

MKR  
860.0 MHz

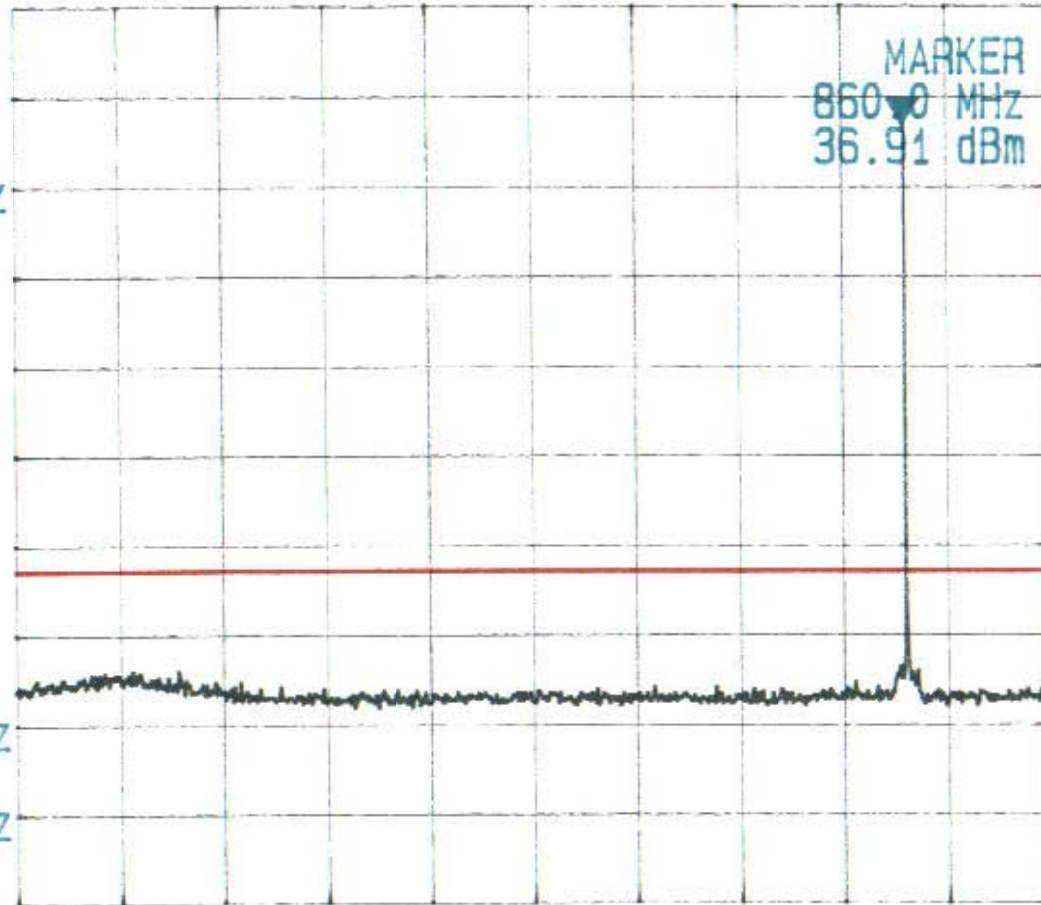
MARKER  
860.0 MHz  
36.91 dBm

REF OFS  
31.3 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 @ 851-866 MHz Output with 1 RF Input Signals  
RF In / Out Frequency 858.5 MHz

Date: May 27 2001  
Tested by: Hung Trinh

PLOT #257

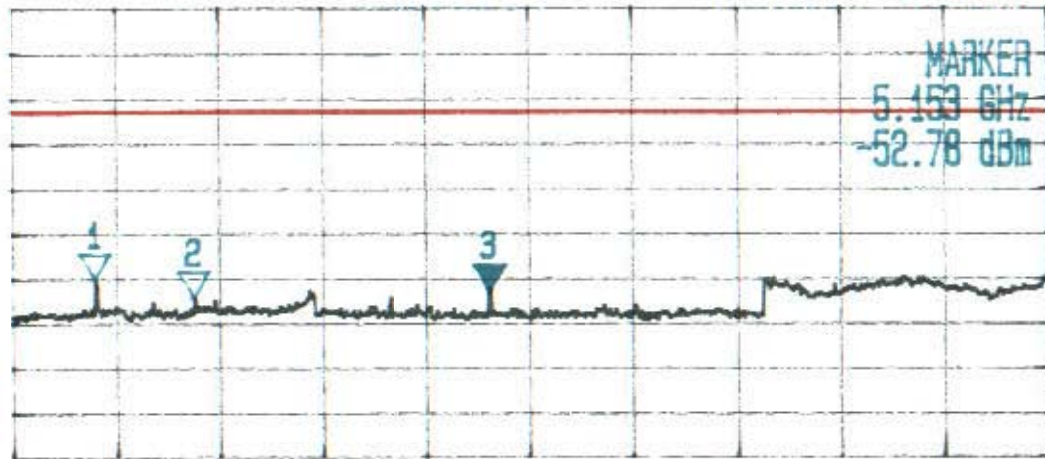
RF IN -45.5 dBm

REF 10.0 dBm  
10dB/

ATT 0 dB

A\_write&max B\_plank

MKA  
5.153 GHz



MARKER  
5.153 GHz  
-52.78 dBm

RBW 100 kHz  
VBW 100 kHz  
SWP 1.8 s

START 1.000 GHz

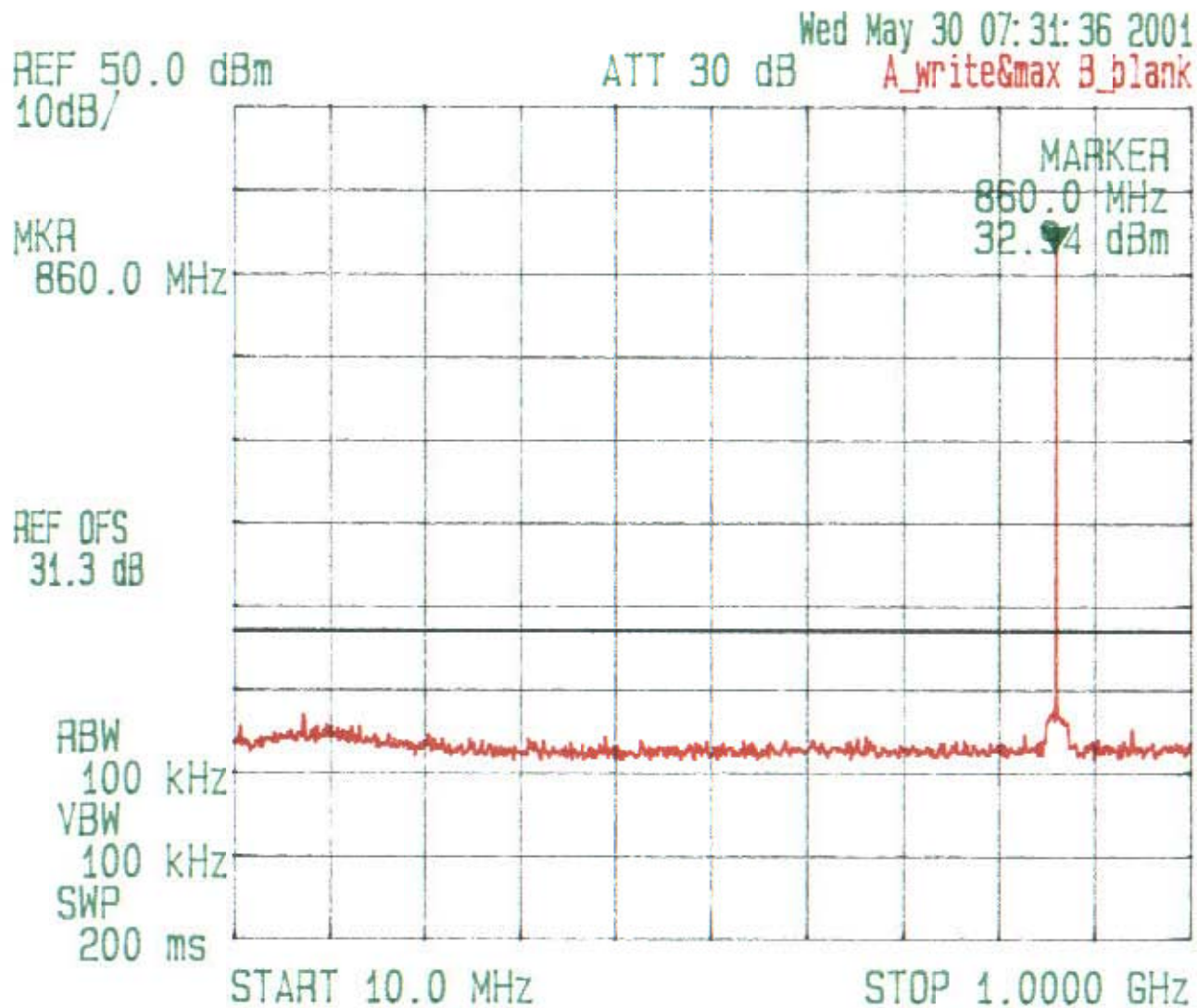
STOP 10.000 GHz

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

No. 1:	1.707 GHz	-50.09 dBm	A
No. 2:	2.569 GHz	-54.25 dBm	A
No. 3:	5.153 GHz	-52.78 dBm	A
No. 4:			
No. 5:			
No. 6:			
No. 7:			
No. 8:			
Δ:			

PLOT # 258

858.5 MHz





PLOT # 259

858.5 MHz

Wed May 30 07:36:07 2001  
A\_write&max B\_plank

REF 10.0 dBm  
10dB/

ATT 0 dB

MKR  
8.791 GHz

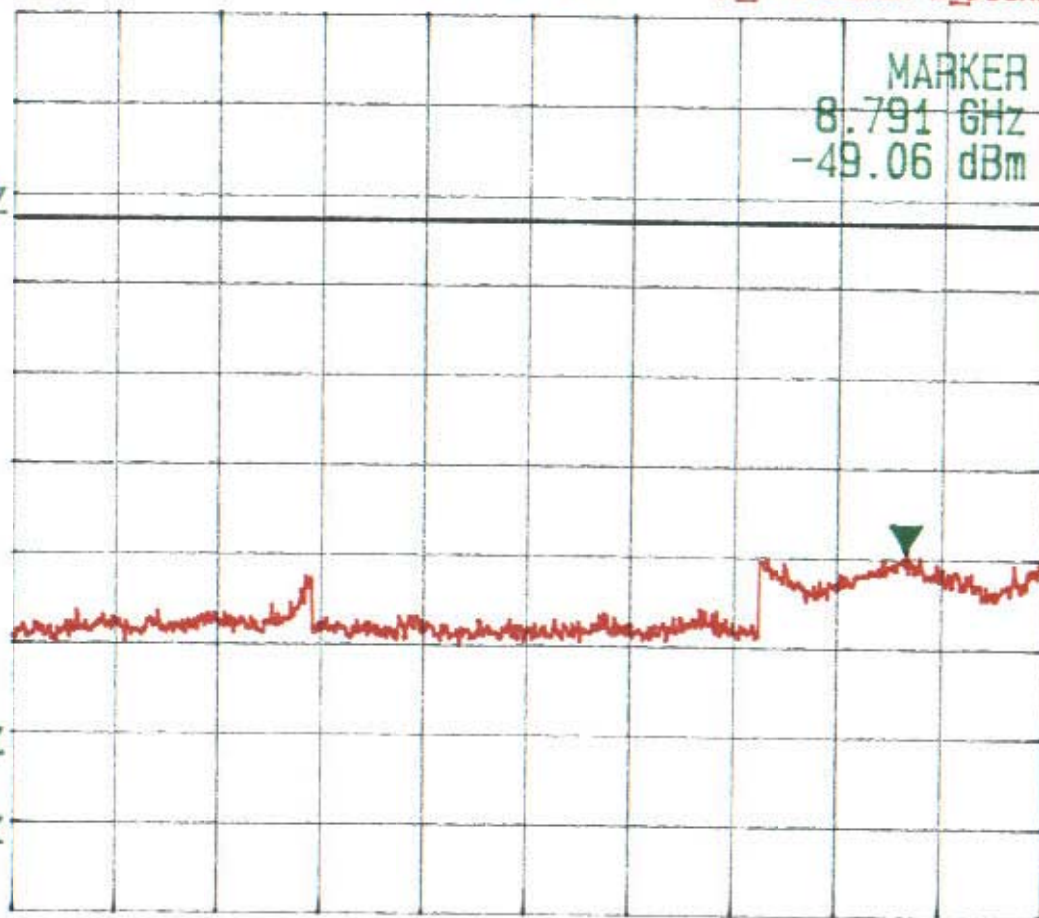
MARKER  
8.791 GHz  
-49.06 dBm

REF DFS  
31.3 dB

RBW  
100 kHz  
VBW  
100 kHz  
SWP  
1.8 s

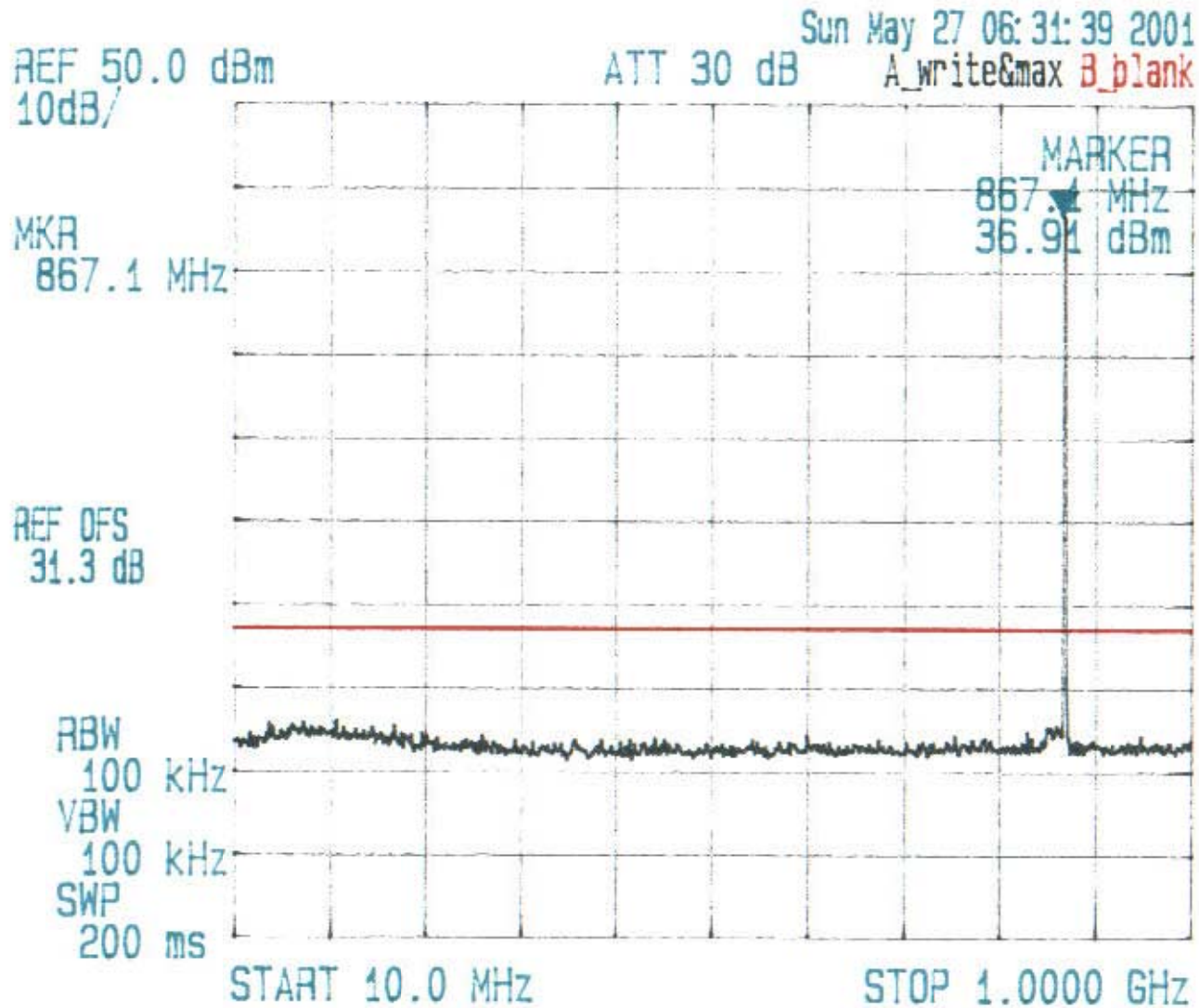
START 1.000 GHz

STOP 10.000 GHz



PLOT # 260

RF IN -44.5





**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 #261

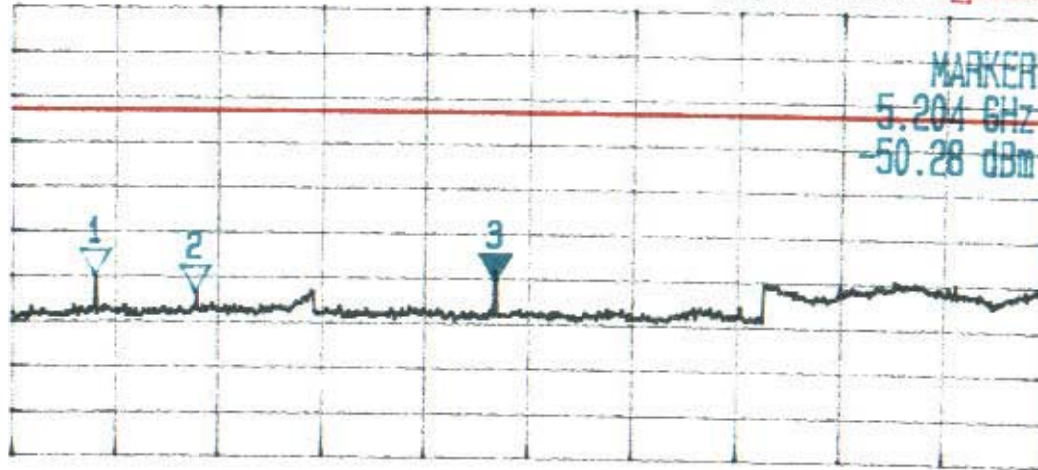
RF IN - 44.5

REF 10.0 dBm  
10dB/

ATT 0 dB

A\_write&max B\_plank

MKR  
5.204 GHz



MARKER  
5.204 GHz  
-50.28 dBm

RBW 100 kHz  
VBW 100 kHz  
SWP 1.8 s

START 1.000 GHz

STOP 10.000 GHz

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

No. 1:	1.720 GHz	-49.56 dBm	A
No. 2:	2.594 GHz	-53.47 dBm	A
No. 3:	5.204 GHz	-50.28 dBm	A
No. 4:			
No. 5:			
No. 6:			
No. 7:			
No. 8:			
Δ:			



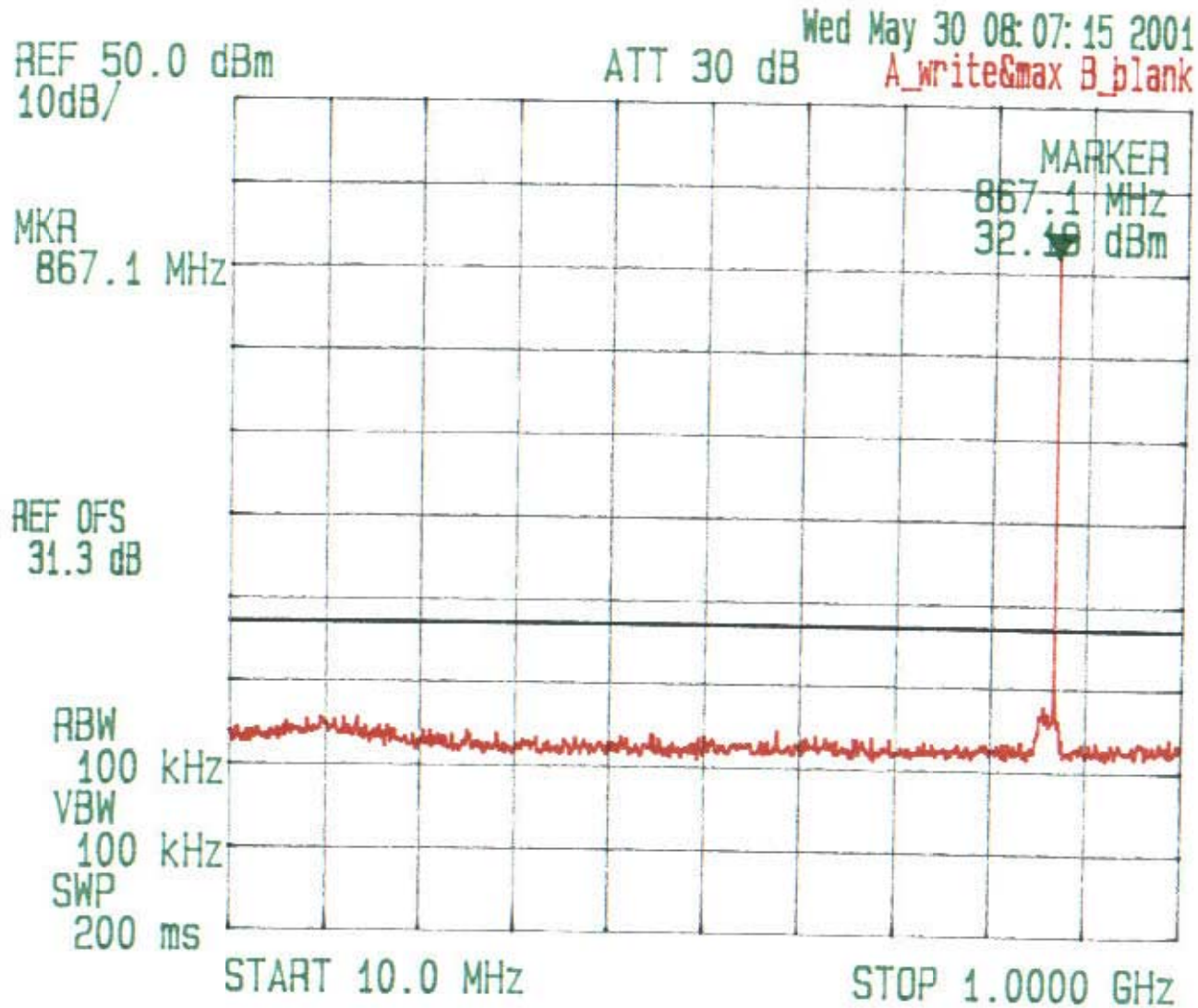
**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 851 - 866 MHz Output with 4 RF Input Signals  
RF In / Out Frequency 865.925, 865.95, 865.975, 866 MHz

Date: May \_\_\_\_ 2001  
Tested by: Hung Trinh

Plot #262

866 MHz



PLOT #263

866 MHz

Wed May 30 07:41:13 2001

REF 10.0 dBm  
10dB/

ATT 0 dB

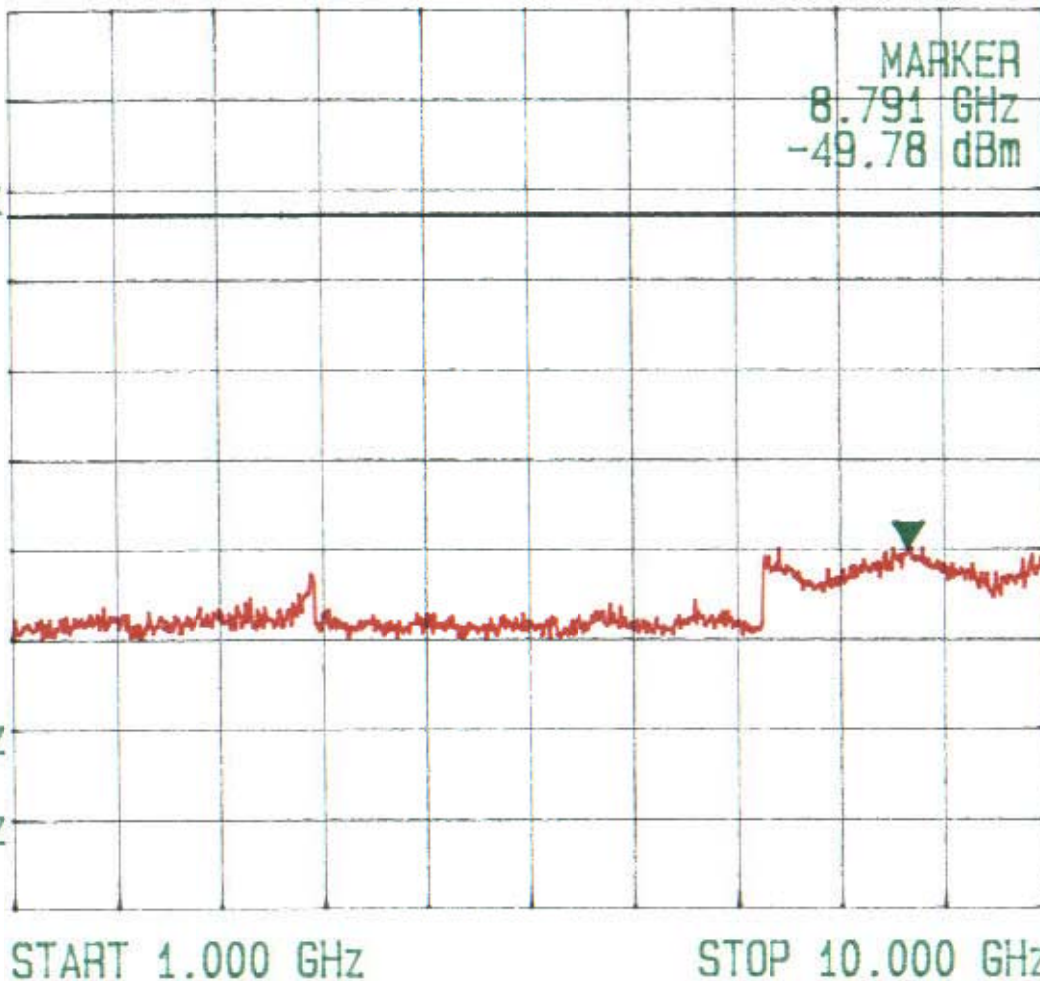
A\_write&max B\_plank

MKR  
8.791 GHz

MARKER  
8.791 GHz  
-49.78 dBm

REF OFS  
31.3 dB

RBW  
100 kHz  
VBW  
100 kHz  
SWP  
1.8 s





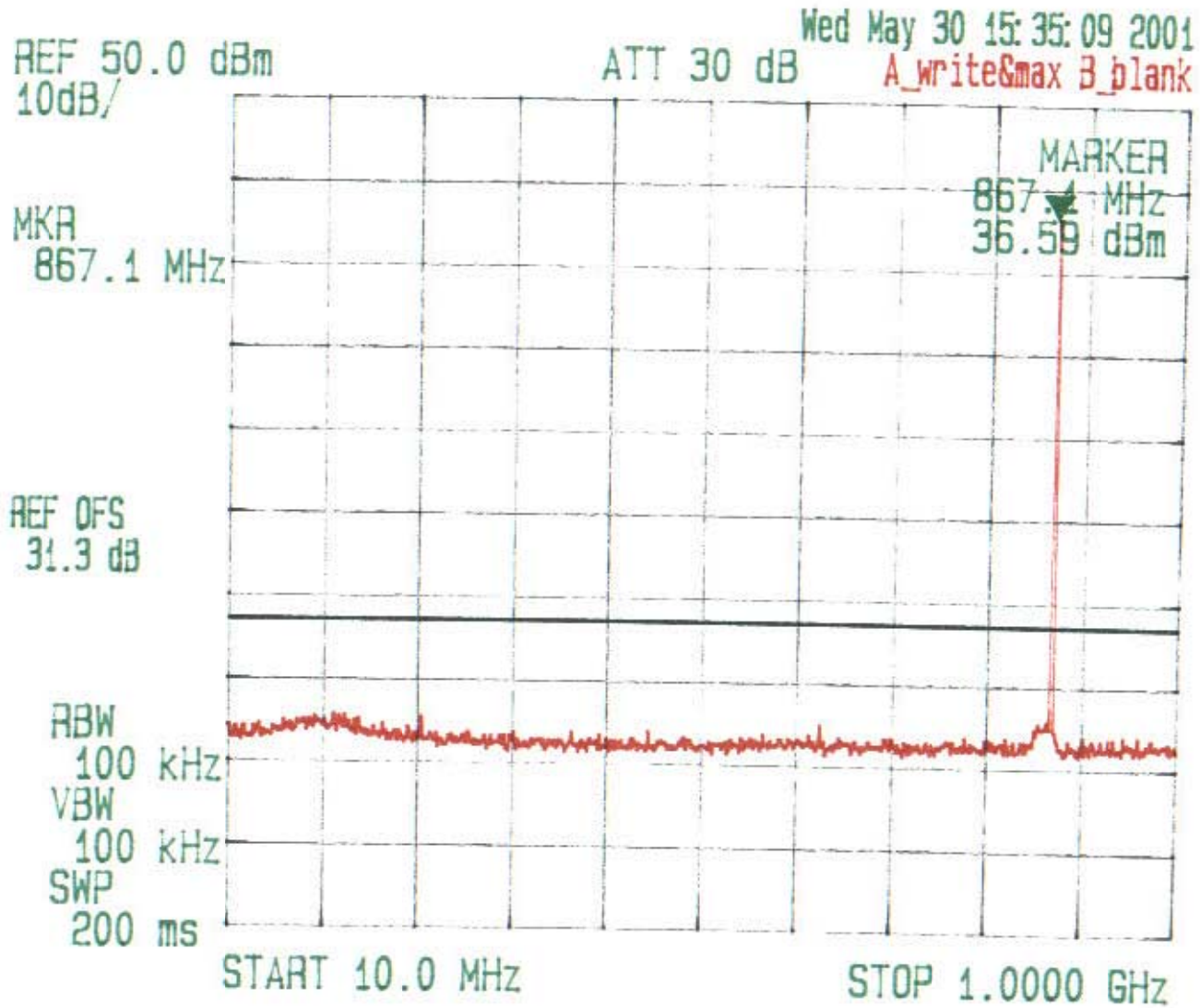
**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 866-869 MHz Output with 1 RF Input Signals  
RF In / Out Frequency 866 MHz

Date: May 30 2001  
Tested by: Hung Trinh

PLOT #264

*12.5 kHz CHANNEL SPACING*





**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 866-869 MHz Output with 1 RF Input Signals  
RF In / Out Frequency 866 MHz

Date: May 30 2001  
Tested by: Hung Trinh

PLOT # 265

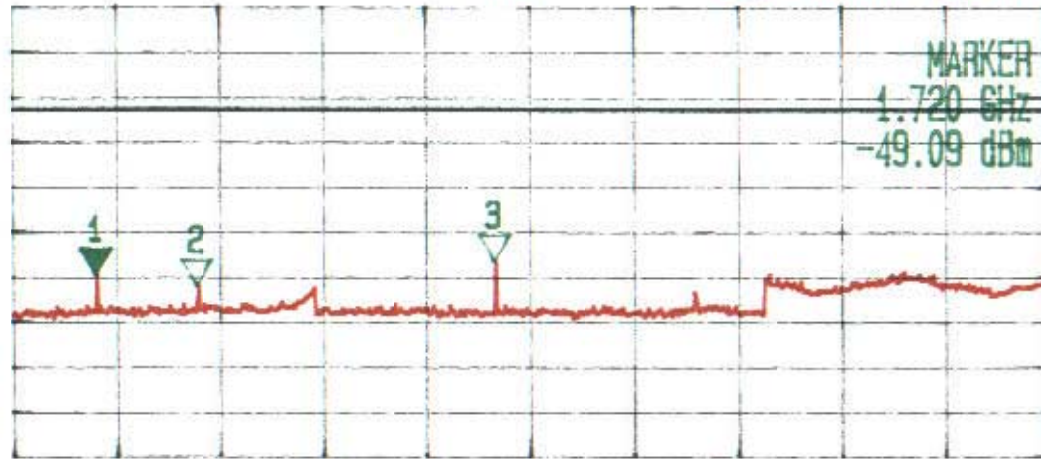
*12.5 kHz CHANNEL SPACING*

REF 10.0 dBm  
10dB/

ATT 0 dB

A\_write&max B\_plank

MKR  
1.720 GHz



RBW 100 kHz  
VBW 100 kHz  
SWP 1.8 s

START 1.000 GHz

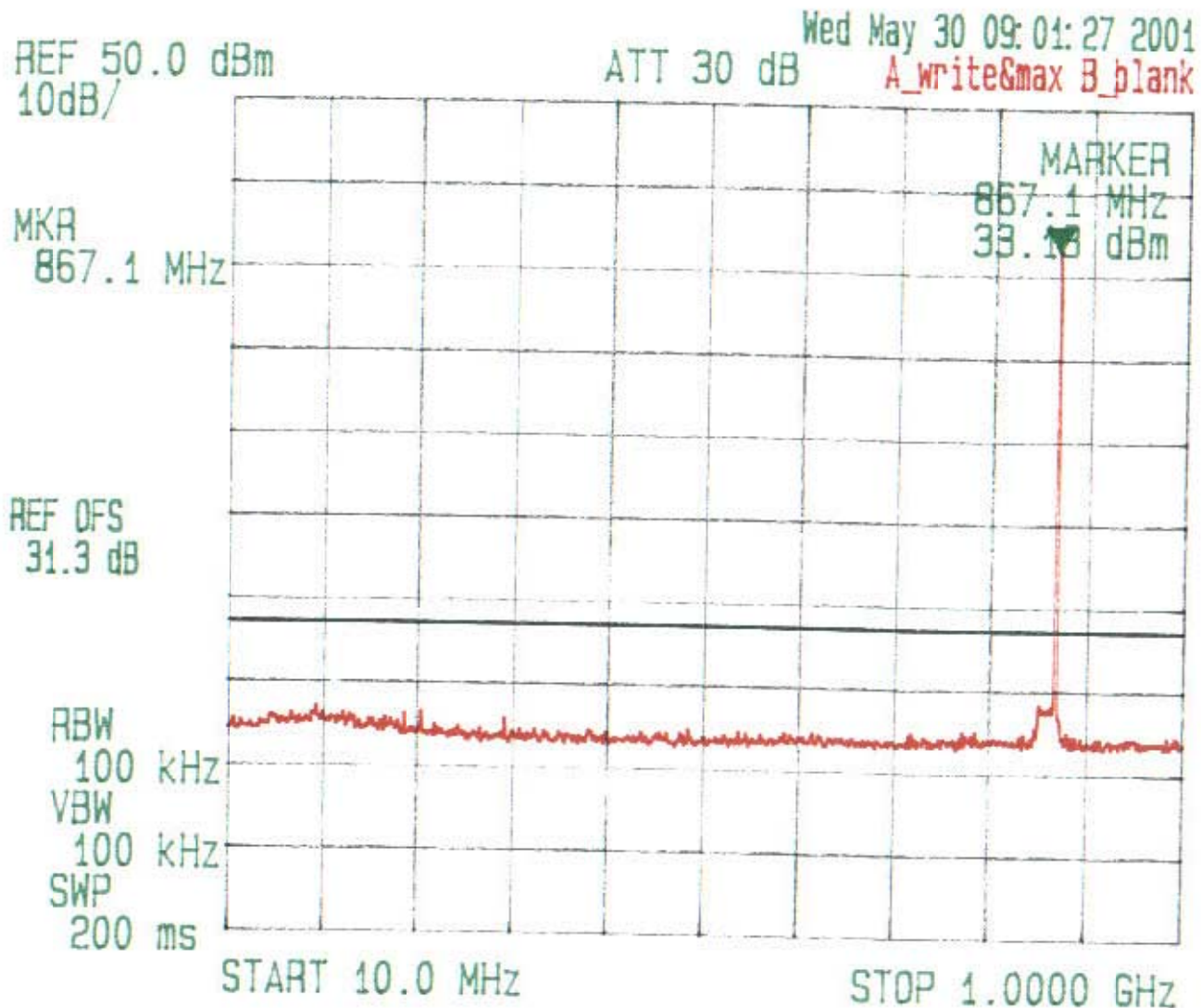
STOP 10.000 GHz

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

No. 1:	1.720 GHz	-49.09 dBm	A
No. 2:	2.594 GHz	-52.00 dBm	A
No. 3:	5.191 GHz	-46.16 dBm	A
No. 4:			
No. 5:			
No. 6:			
No. 7:			
No. 8:			
Δ:			

PLOT # 266

866 MHz (12.5 kHz Channel Spacing)







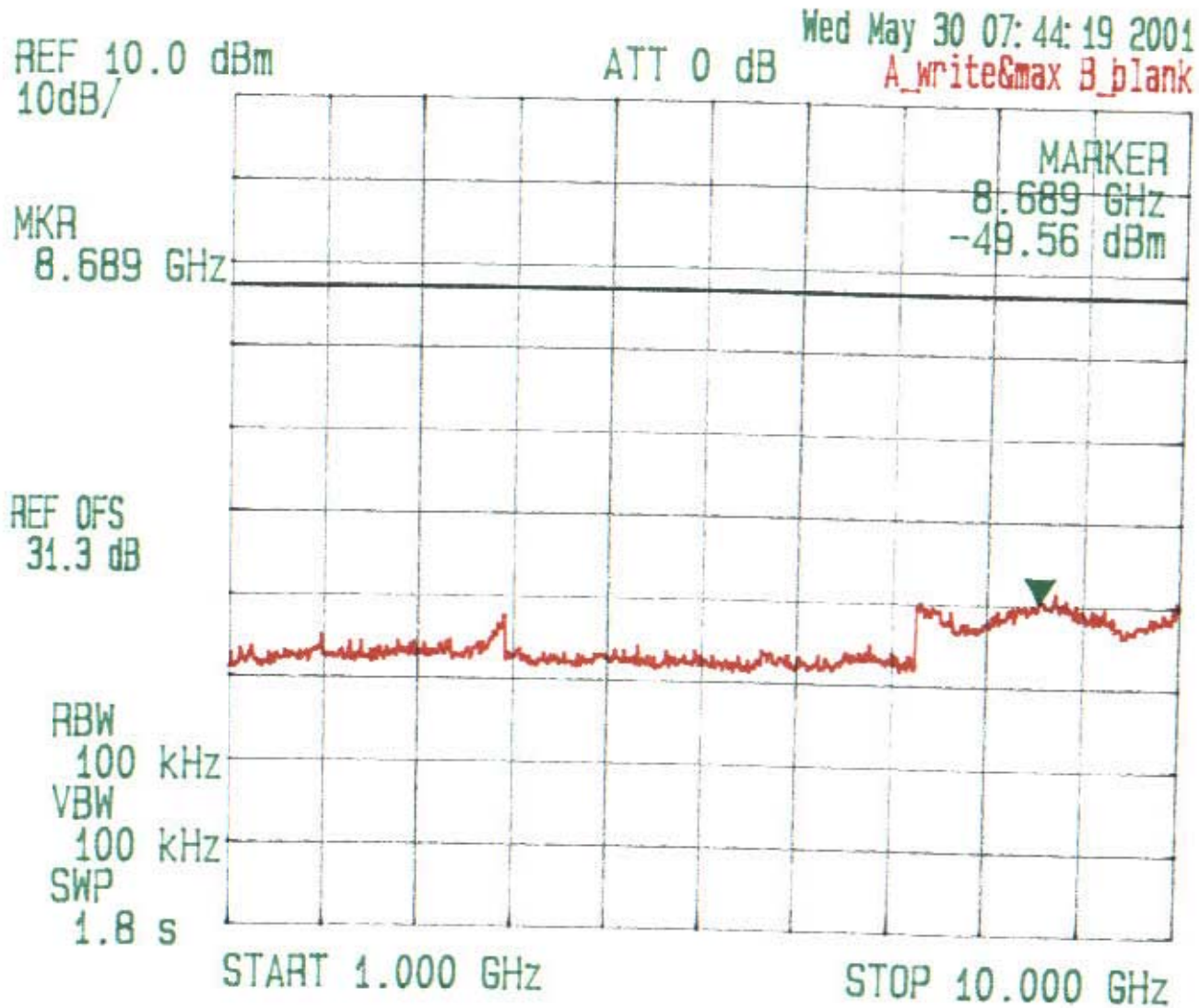
**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 866 - 869 MHz Output with 4 RF Input Signals  
RF In / Out Frequency 866, 866.0125, 866.025, 866.0375 MHz

Date: May 30 2001  
Tested by: Hung Trinh

PLOT # 267

866 MHz (12.5 kHz Channel Spacing)





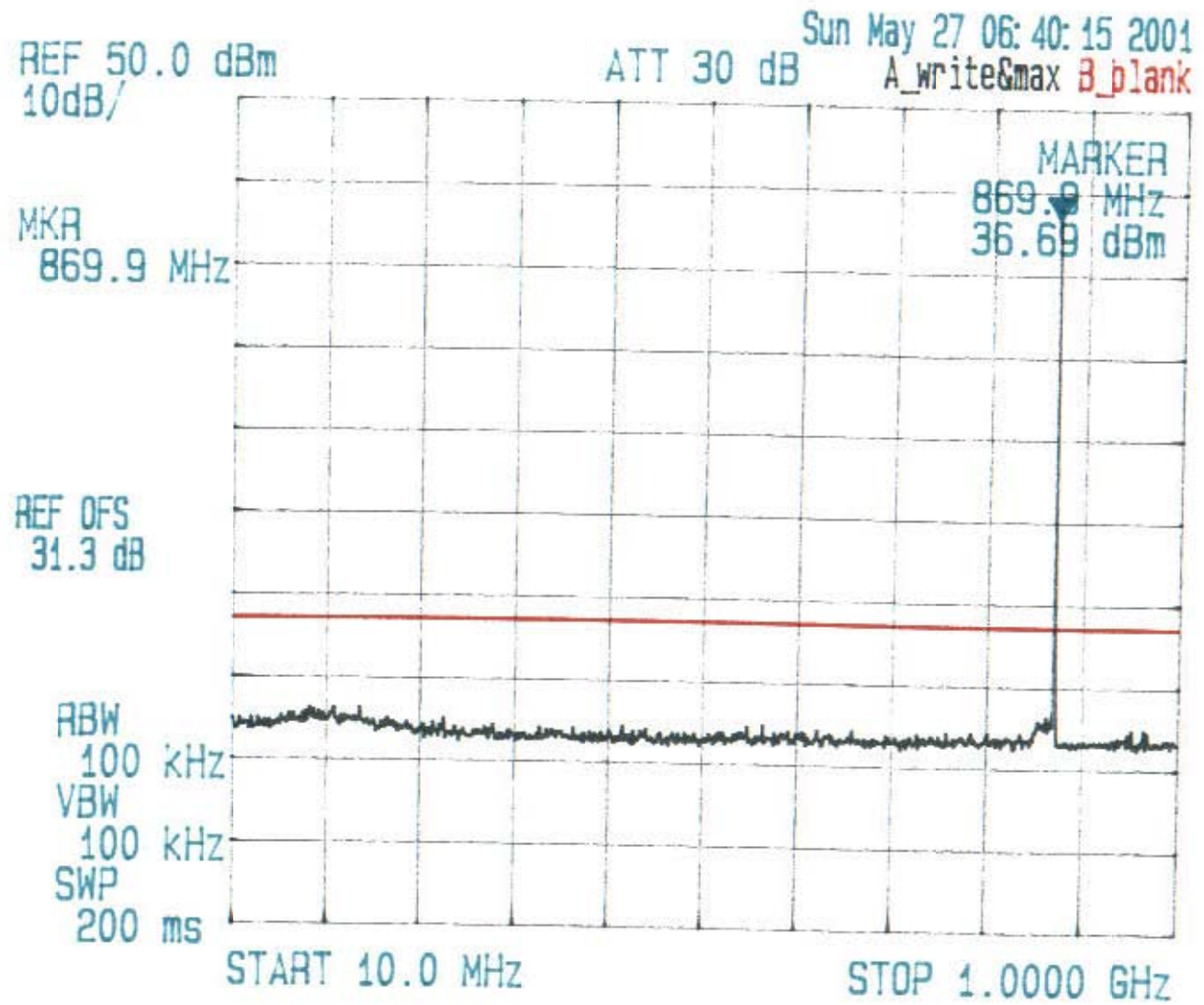
**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 866 - 869 MHz Output with 1 RF Input Signals  
RF In / Out Frequency 869 MHz

Date: May 27 2001  
Tested by: Hung Trinh

PLOT # 268

*RF IN - 44 dBm*





**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 866 - 869 MHz Output with 1 RF Input Signals  
RF In / Out Frequency 869 MHz

Date: May 27 2001  
Tested by: Hung Trinh

PLOT # 269

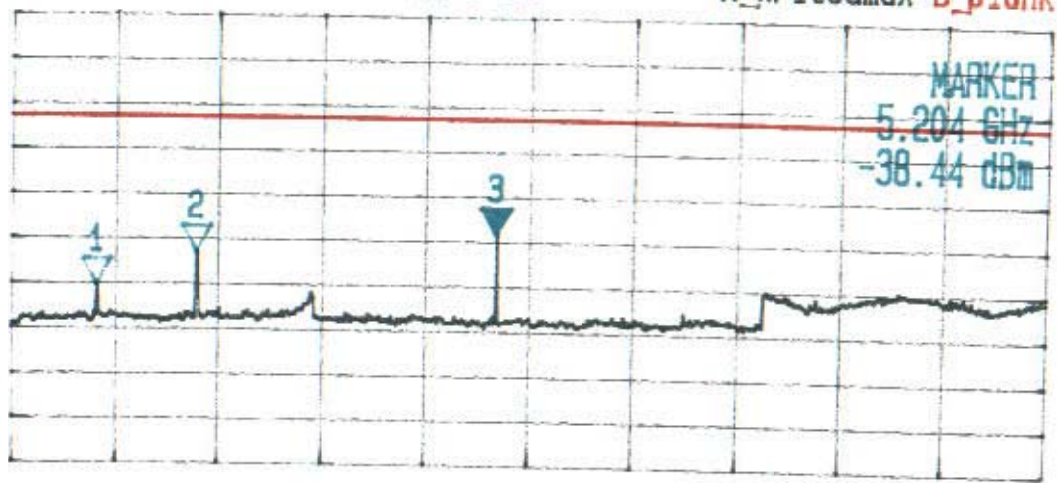
RF IN - 44 dBm

REF 10.0 dBm  
10dB/

ATT 0 dB

A\_write&max B\_plank

MKR  
5.204 GHz



RBW 100 kHz  
VBW 100 kHz  
SWP 1.8 s

START 1.000 GHz

STOP 10.000 GHz

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

No. 1:	1.733 GHz	-50.22 dBm	A
No. 2:	2.607 GHz	-42.97 dBm	A
No. 3:	5.204 GHz	-38.44 dBm	A
No. 4:			
No. 5:			
No. 6:			
No. 7:			
No. 8:			
Δ:			



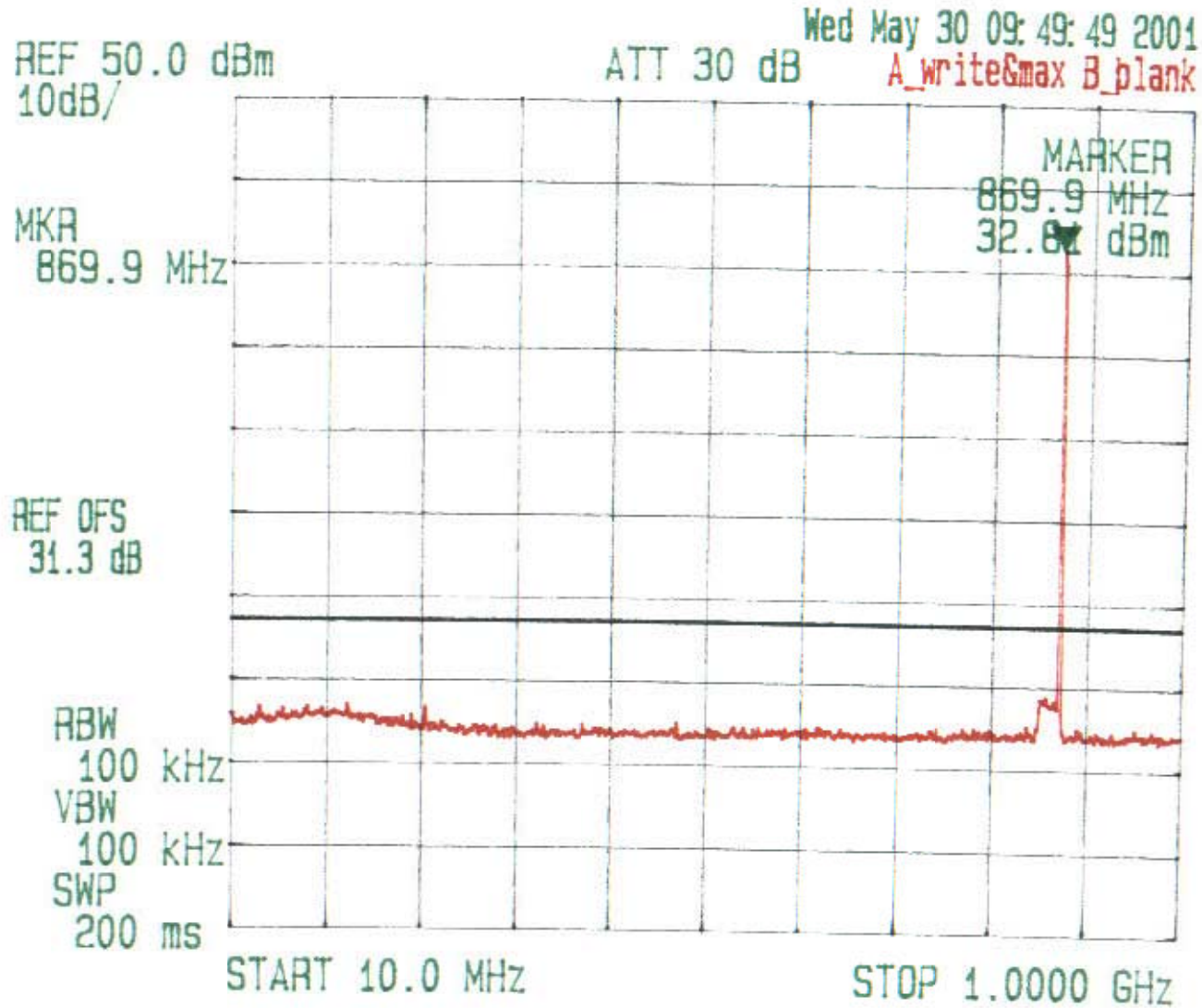
**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 866 - 869 MHz Output with 4 RF Input Signals  
RF In / Out Frequency 868.9625, 868.975, 868.9875, 869 MHz

Date: May 30 2001  
Tested by: Hung Trinh

PLOT # 270

869 MHz (12.5 kHz Channel Spacing)





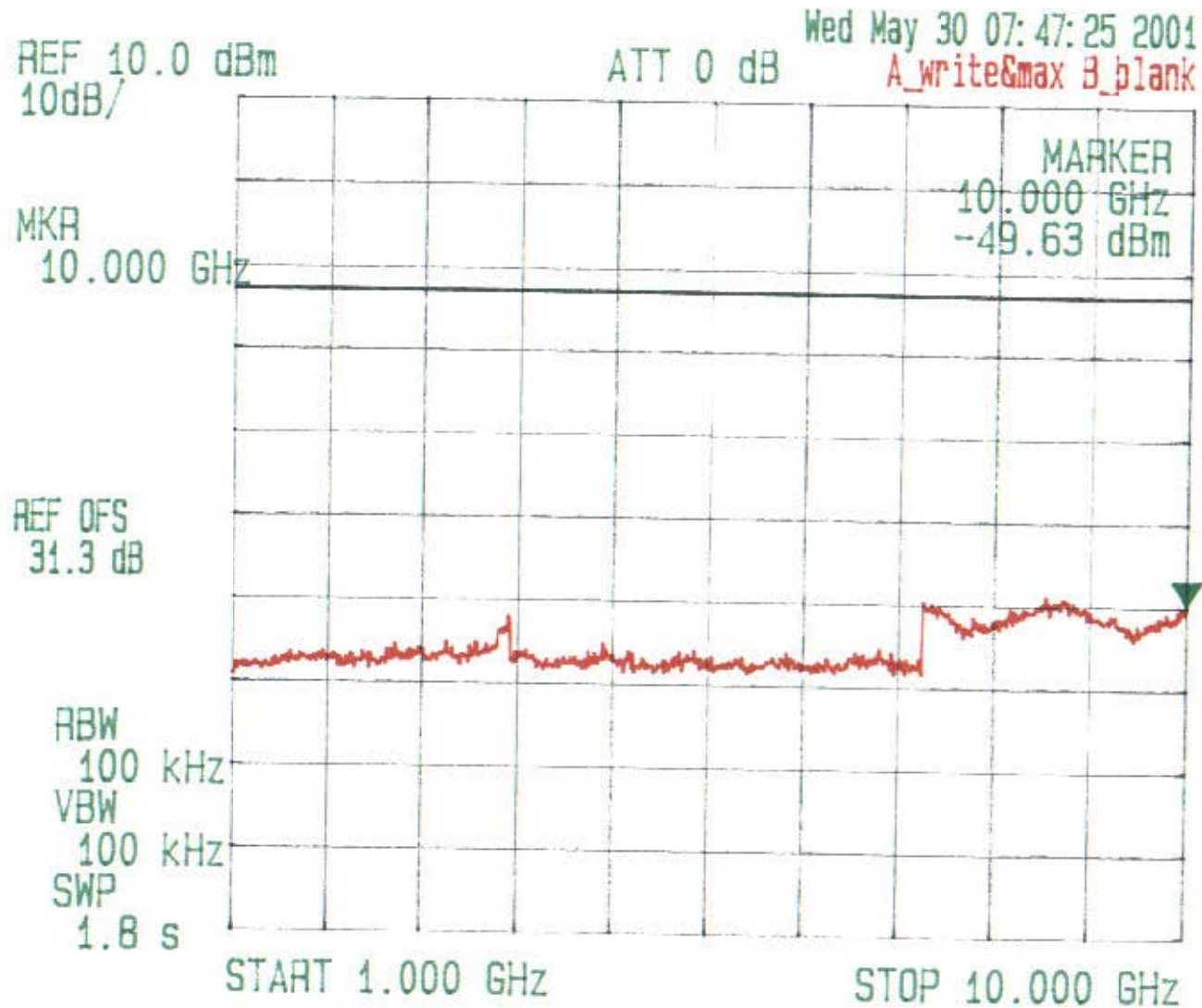
**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Spurious Emission @ 866 - 869 MHz Output with 4 RF Input Signals  
RF In / Out Frequency 868.9625, 868.975, 868.9875, 869 MHz

Date: May 30 2001  
Tested by: Hung Trinh

PLOT # 271

869 MHz (12.5 kHz Channel Spacing)





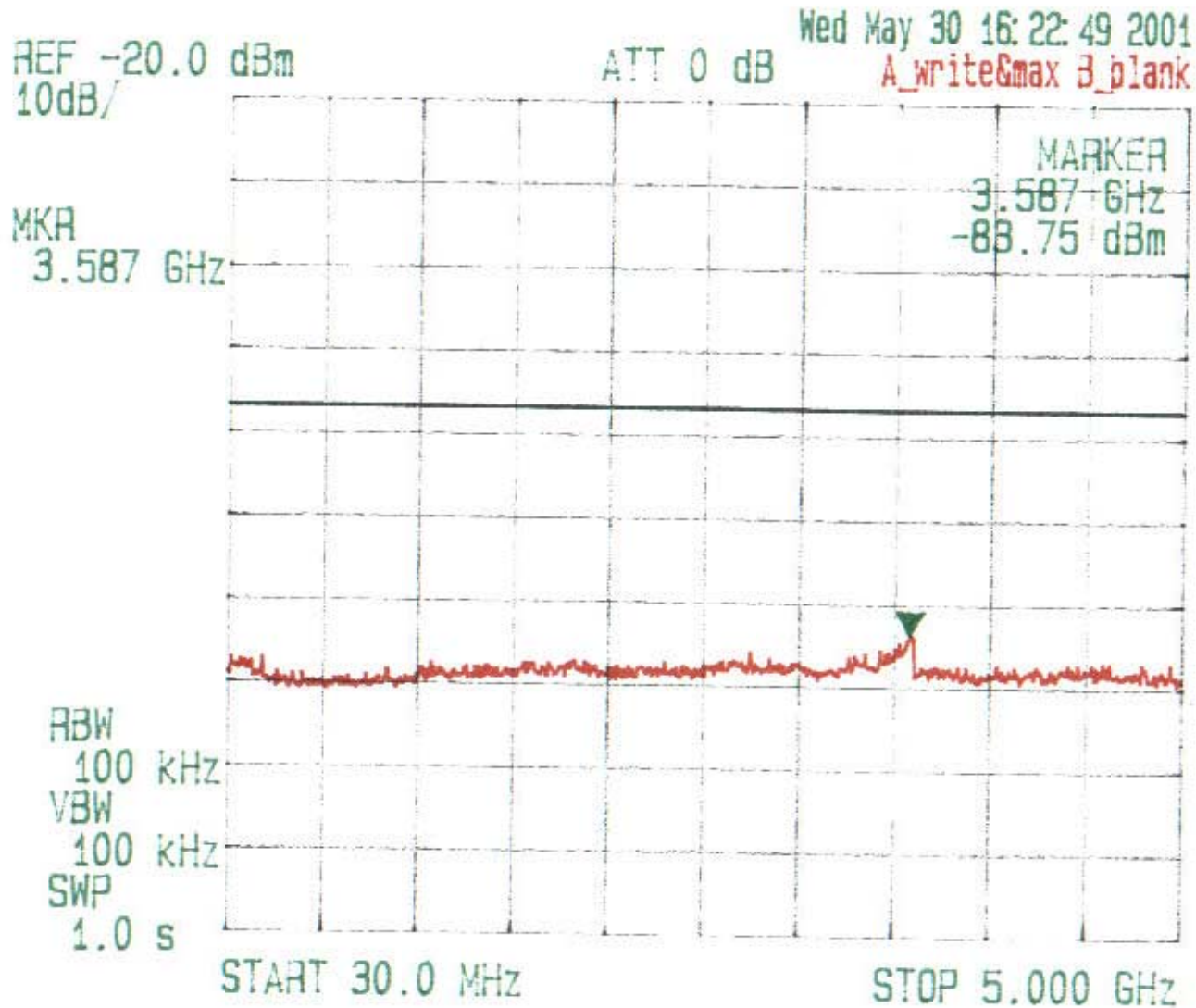
**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Frequency: 836.5 MHz @ 844-849 MHz

Date: May 30 2001  
Tested by: Hung Trinh

PLOT # 272

RECEIVER





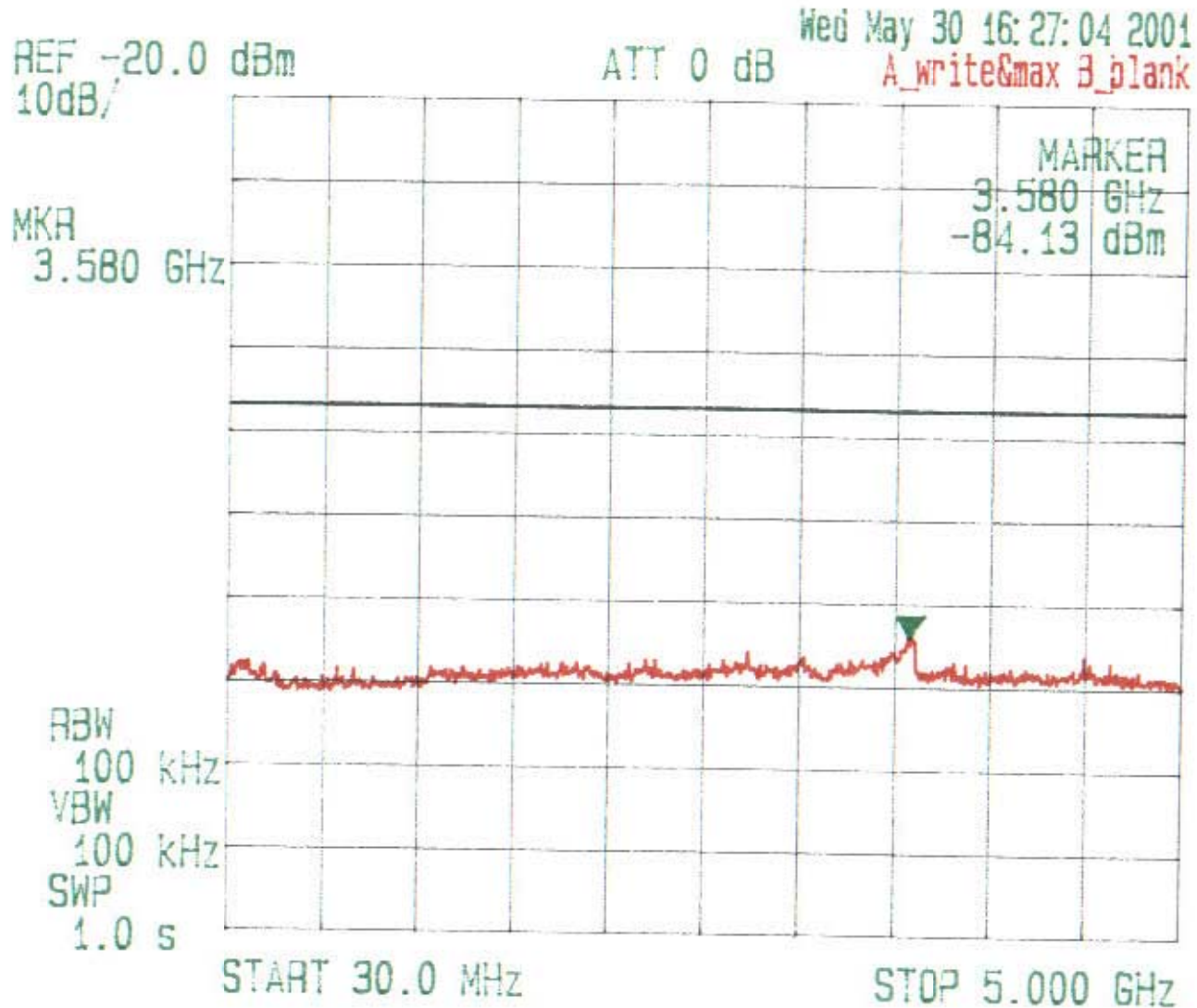
**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Frequency: 881.5 MHz @ 369-604 MHz

Date: May 30 2001  
Tested by: Hung Trinh

PLOT # 273

RECEIVER





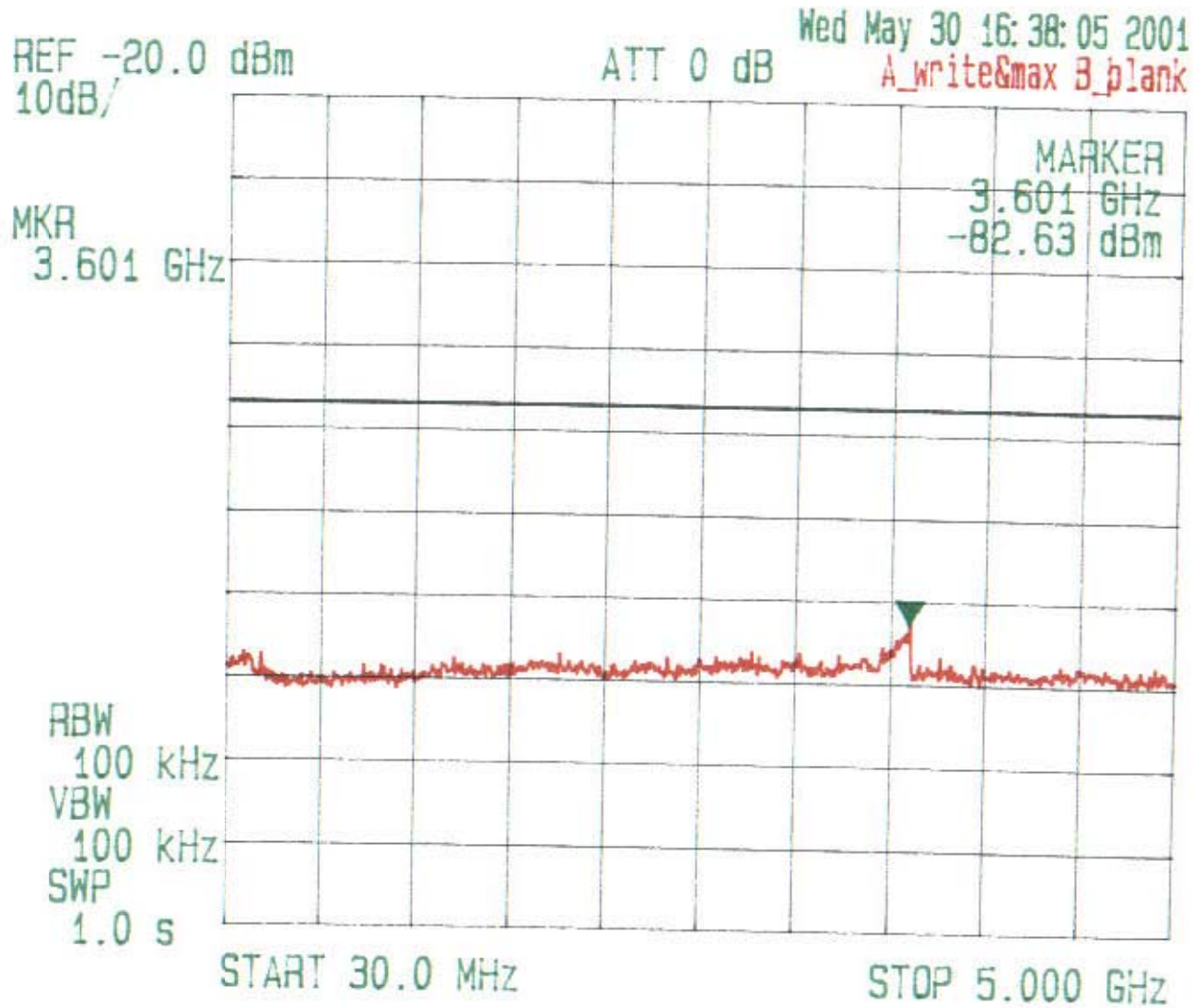
**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Frequency: 312.5 MHz @ 806-824 MHz

Date: May 30 2001  
Tested by: Hung Trinh

PLOT #274

RECEIVER







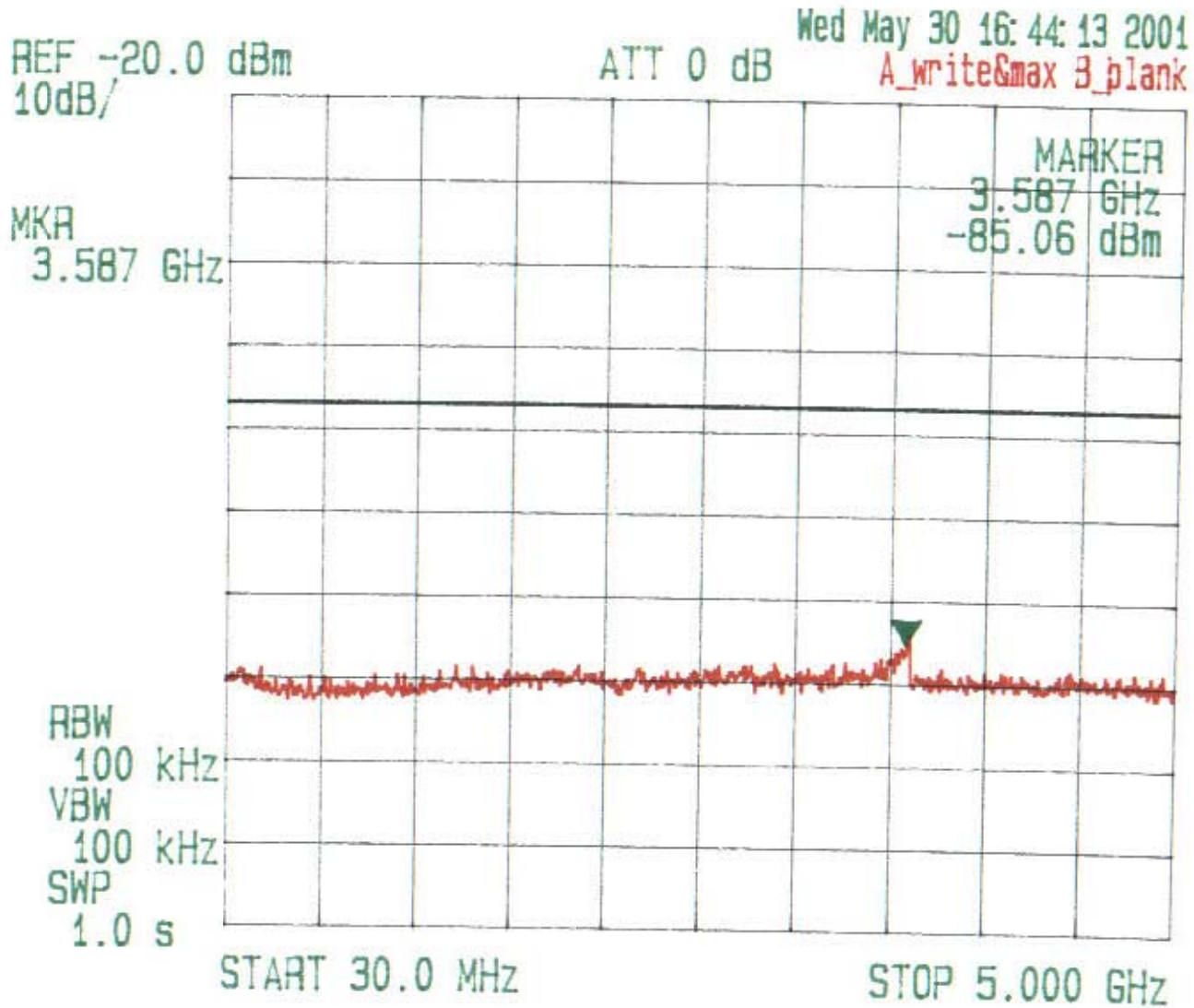
**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Frequency: 860 MHz @ 851-869 MHz

Date: May 30 2001  
Tested by: Hung Trinh

PLOT # 275

RECEIVER





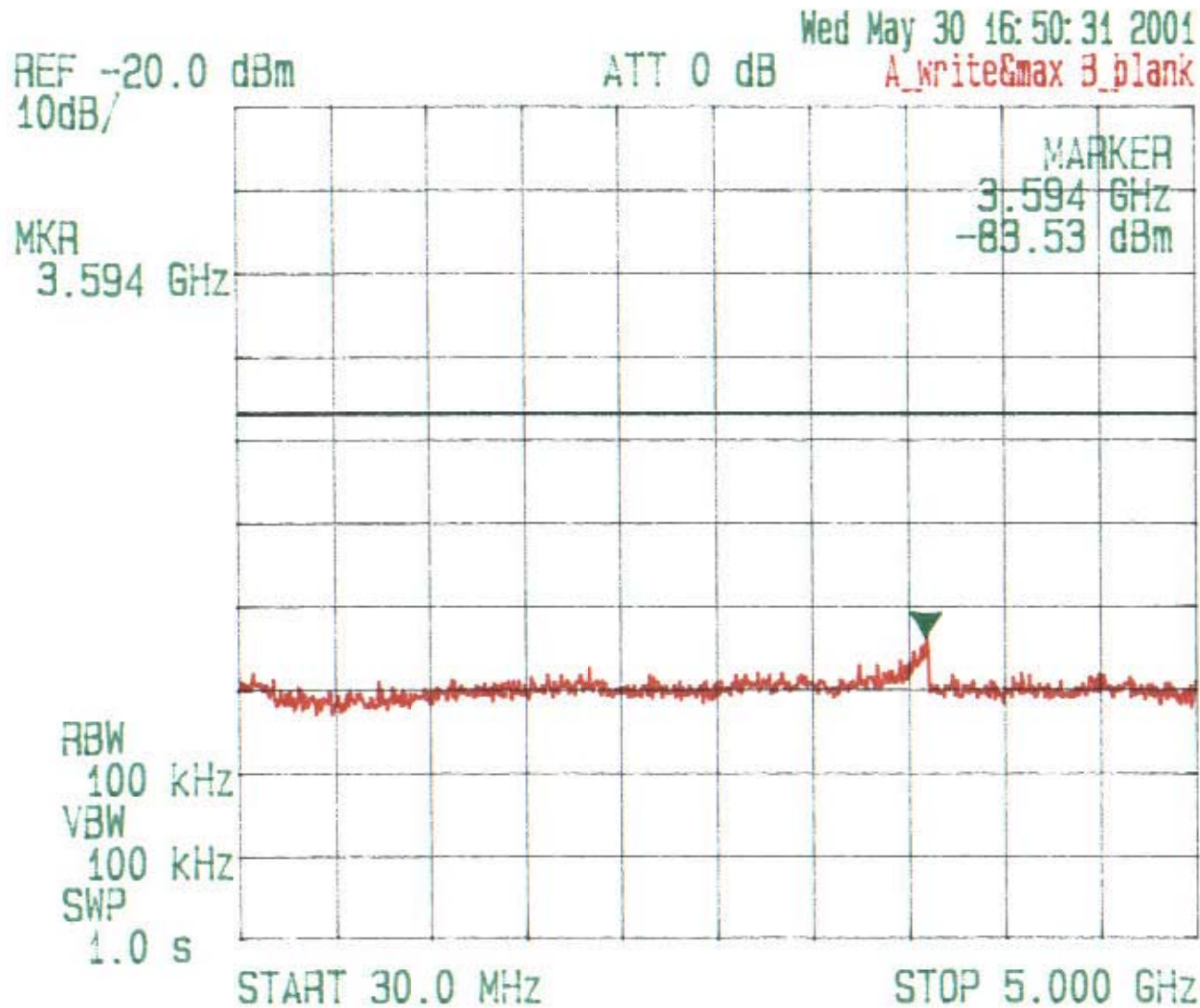
**UltraTech**  
Engineering Labs Inc.

KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Frequency: 899 MHz @ 896-902 MHz

Date: May 30 2001  
Tested by: Hung Trinh

PLOT # 276

RECEIVER





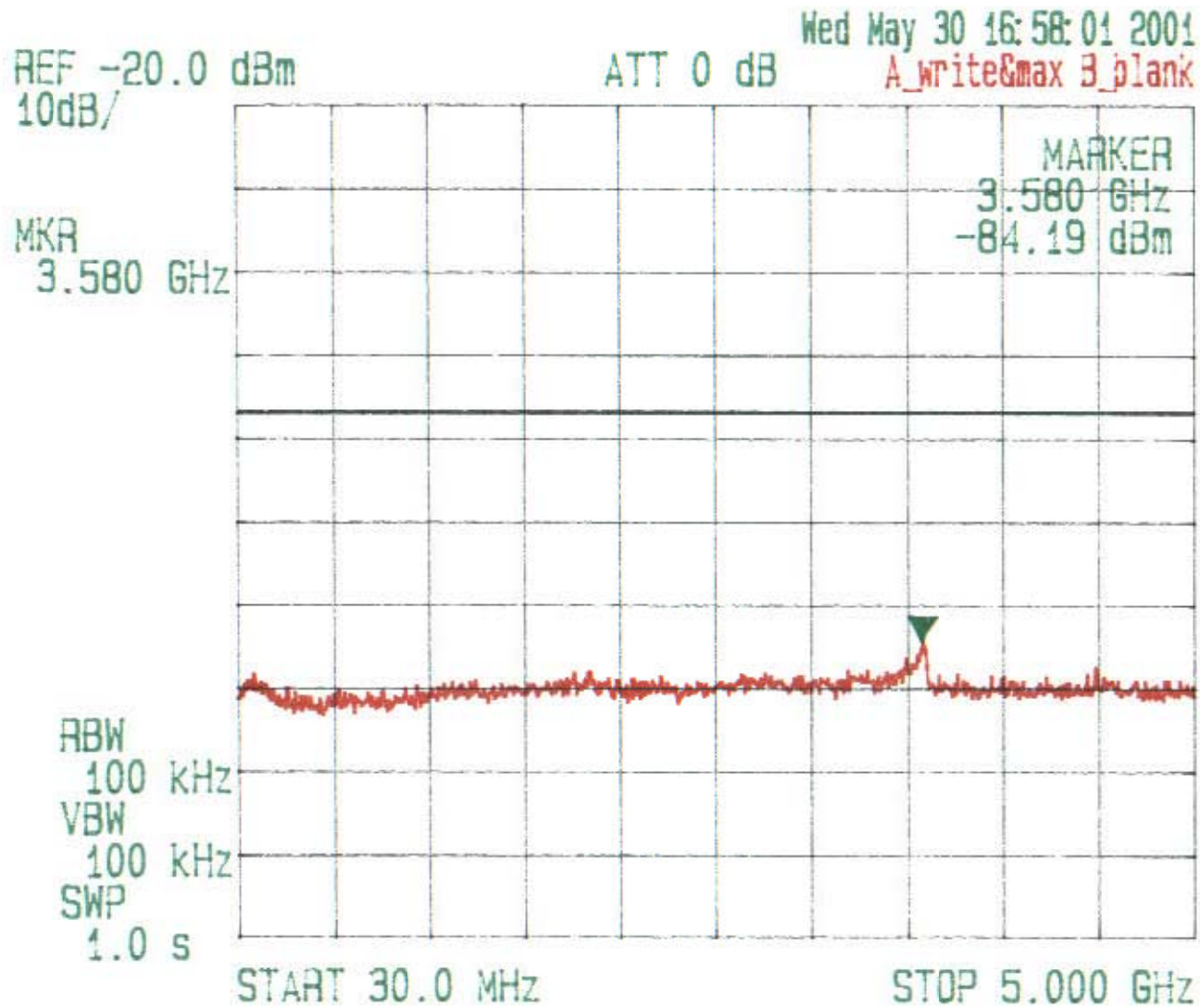
**UltraTech**  
Engineering Labs Inc.

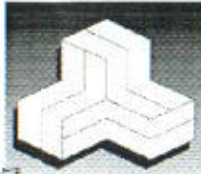
KAVAL WIRELESS TECHNOLOGIES INC.  
LINKNET LNKA 800 RF 800 - 900 MHz AMPLIFIER MODULES  
Frequency: 988 MHz @ 925-940 MHz

Date: May 30 2001  
Tested by: Hung Trinh

PLOT # 277

RECEIVER





UltraTch Group of Labs

Applicant: *KAVAL WIRELESS TECH*  
 Product: *LINKNET AMPLIFIER*  
 Model: *LNKA 800 RF*

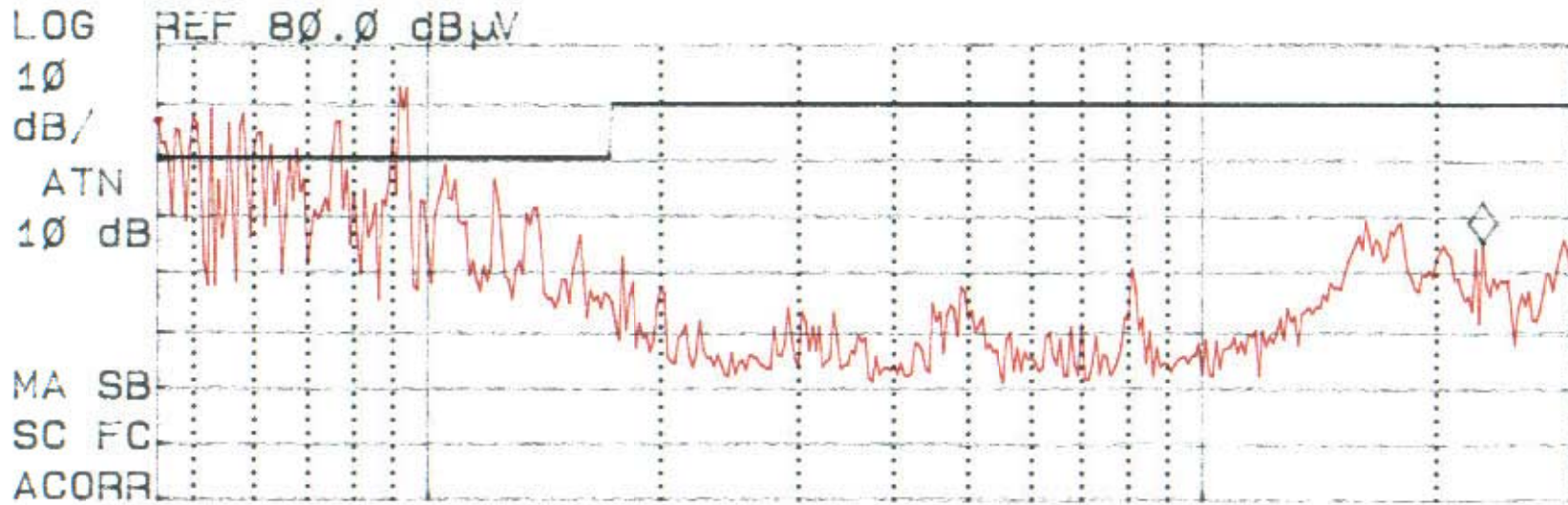
POWERLINE CONDUCTED EMISSIONS MEASUREMENT PLOT

Detector:  PEAK  QUASI-PEAK  AVERAGE Temp: *21°C* Humidity: *42%*  
 Line Tested: */* Line Voltage: *120VAC* Test Tech: *HUNGA* Test Date: *2 JUNE 01*  
 CISPR  FCC  A  B  Comments: *THE QUASI-PEAK AND AVERAGE READINGS WERE DIFFER BY MORE THAN 6 DB & A LIMIT ADDED 13 DB MPRE.*

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp	QP Δ.1	No user Menu
1	0.928600	72.7	70.3	54.0	10.3	
2	8.122400	42.3	38.7	35.1	-30.8	
3	16.323200	49.5	43.4	33.2	-26.1	
4	22.763050	48.3	41.7	27.2	-27.8	

STOP  
 30.00 MHz

ACTV DET: PEAK  
 MEAS DET: PEAK QP AVG  
 MKR 22.86 MHz  
 45.17 dBμV



START 450 kHz STOP 30.00 MHz  
 IF BW 9.0 kHz AVG BW 30 kHz SWP 1.33 sec



UltraTech Group of Labs

Applicant: NAVAL WIRELESS TECH.  
 Product: LINKJET AMPLIFIER  
 Model: LNKA 800 RF

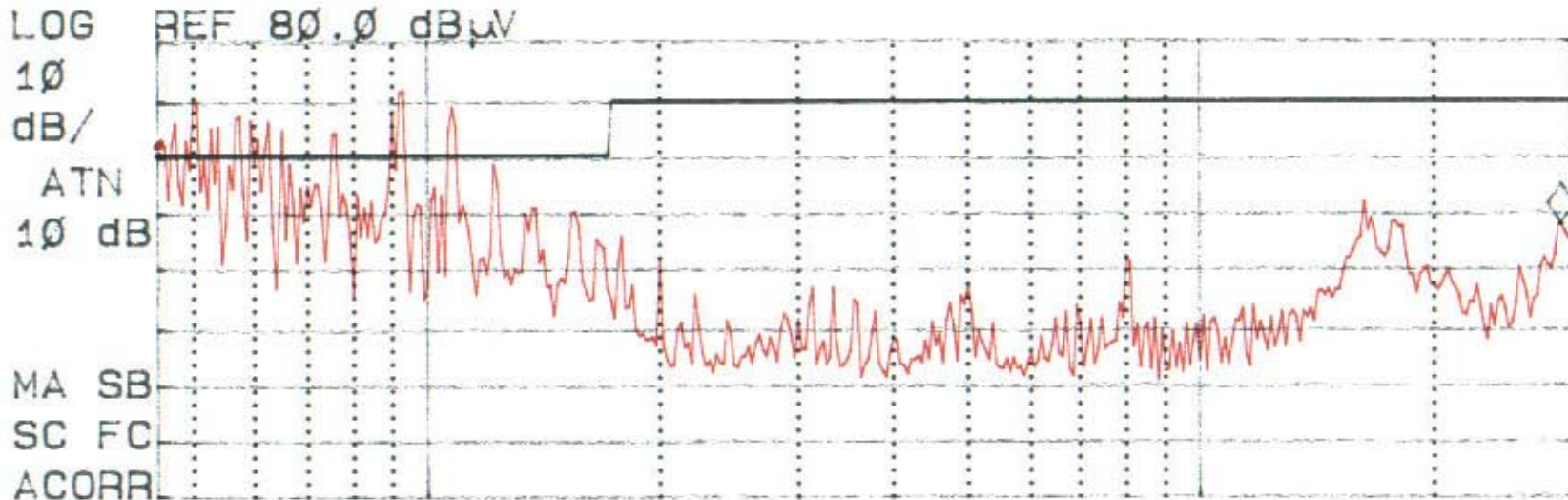
POWERLINE CONDUCTED EMISSIONS MEASUREMENT PLOT

Detector:  PEAK  QUASI-PEAK  AVERAGE Temp: 21°C Humidity: 42%  
 Line Tested: 2 Line Voltage: 120VAC Test Tech: HUNT Test Date: 22JUN01  
 CISPR  FCC  A  B  Comments: THE QUASI-PEAK AND AVERAGE READINGS WERE DIFFER BY MORE THAN 6 DB. QP LIMIT ADDED 13 DB MORE.

Signal	Freq (MHz)	PK Amp	QP Amp	AV Amp	QP Δ 1	No user Menu
1	0.931975	71.5	69.4	53.9	9.4	
2	8.086375	43.5	40.8	36.3	-28.7	
3	17.916525	50.2	44.2	33.9	-25.3	
4	29.205675	49.6	42.6	34.3	-26.9	

STOP  
 30.00 MHz

ACTV DET: PEAK  
 MEAS DET: PEAK QP AVG  
 MKR 29.07 MHz  
 47.79 dBμV



START 450 kHz STOP 30.00 MHz  
 IF BW 9.0 kHz AVG BW 30 kHz SWP 1.33 sec