

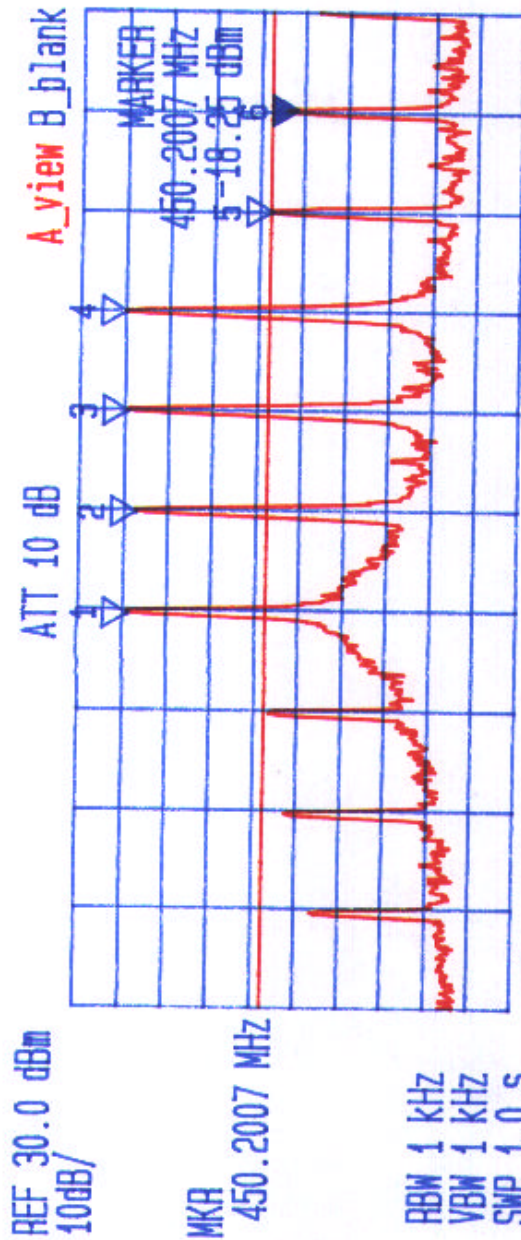


**UltraTech**  
Engineering Labs Inc.

**KAVAL TELECOM INC.**

**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz**  
Intermodulation with 4 RF Input signals in 403-512 MHz band  
**450.05, 450.00, 449.95, & 450.10 MHz**

Date: April 17 2000  
Tested by: Hung Trinh

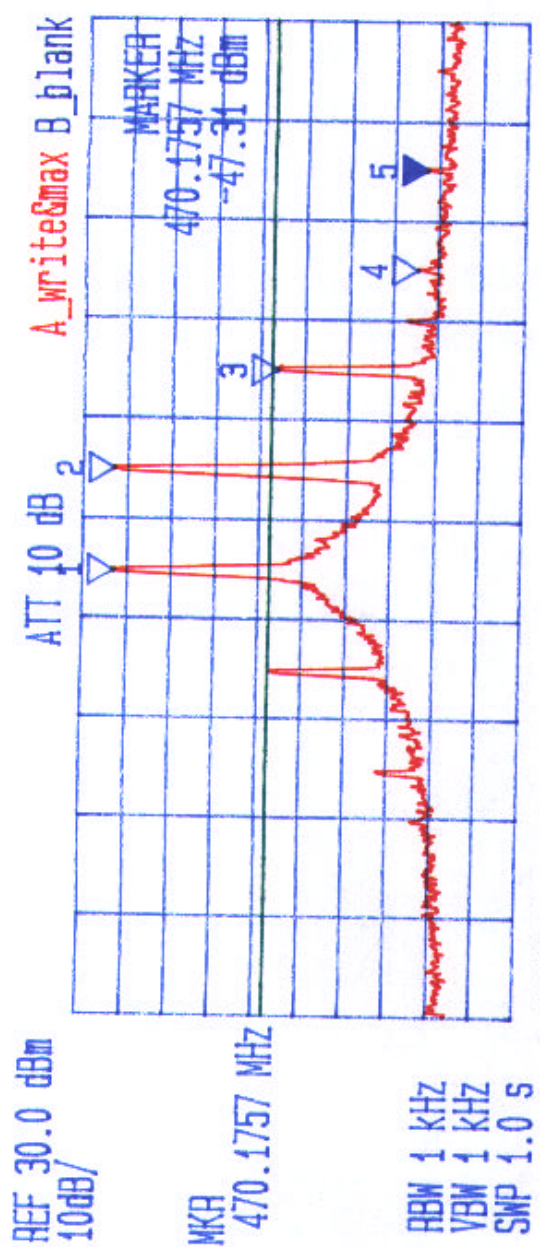


CENTER 450.0000 MHz SPAN 500 KHZ

No.	Multi	Marker	List	***
1:	449.9479	MHZ	18.69	dBm
2:	449.9986	MHZ	17.41	dBm
3:	450.0493	MHZ	19.22	dBm
4:	450.0993	MHZ	19.59	dBm
5:	450.1500	MHZ	-13.00	dBm
6:	450.2007	MHZ	-18.25	dBm

No. 1:  
No. 2:  
No. 3:  
No. 4:  
No. 5:  
No. 6:  
No. 7:  
No. 8:  
Δ:

470.025 & 469.975 MHz



No.	Multi	Marker	List	**
1:	469.9736	MHZ	23.22	dBm
2:	470.0243	MHZ	23.31	dBm
3:	470.0743	MHZ	-13.63	dBm
4:	470.1250	MHZ	-45.03	dBm
5:	470.1757	MHZ	-47.31	dBm
6:				
7:				
8:				
Δ:				



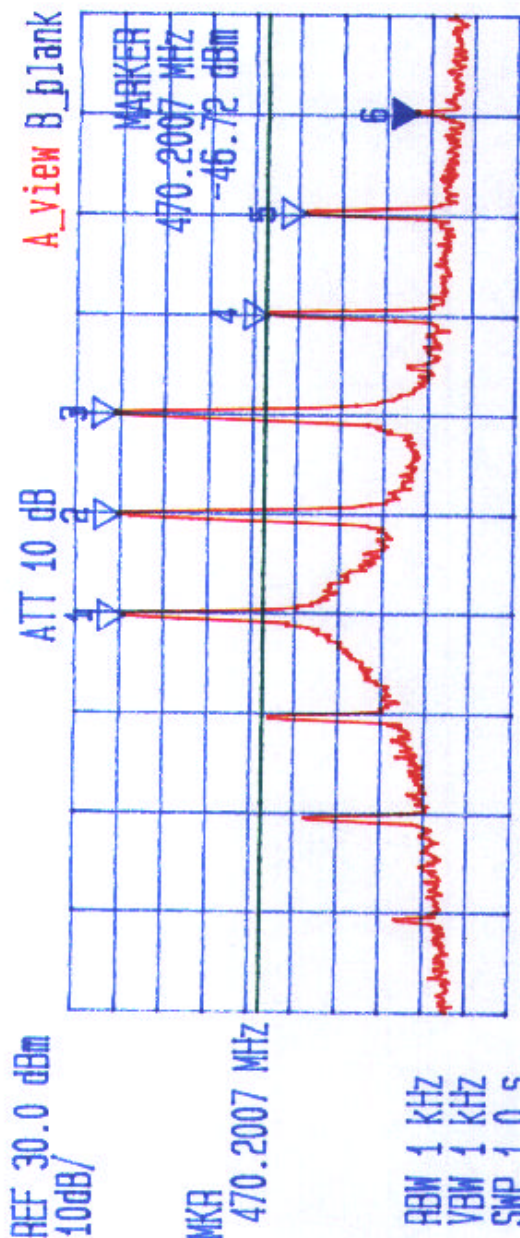
Date: April 04, 2000  
 Tested by: Hung Trinh

**KAVAL TELECOM INC.**

**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz**  
 Intermodulation with 3 RF Input signals in 403-512 MHz band

*470.05, 470 & 469.95 MHz*

**UltraTech**  
 Engineering Labs Inc.



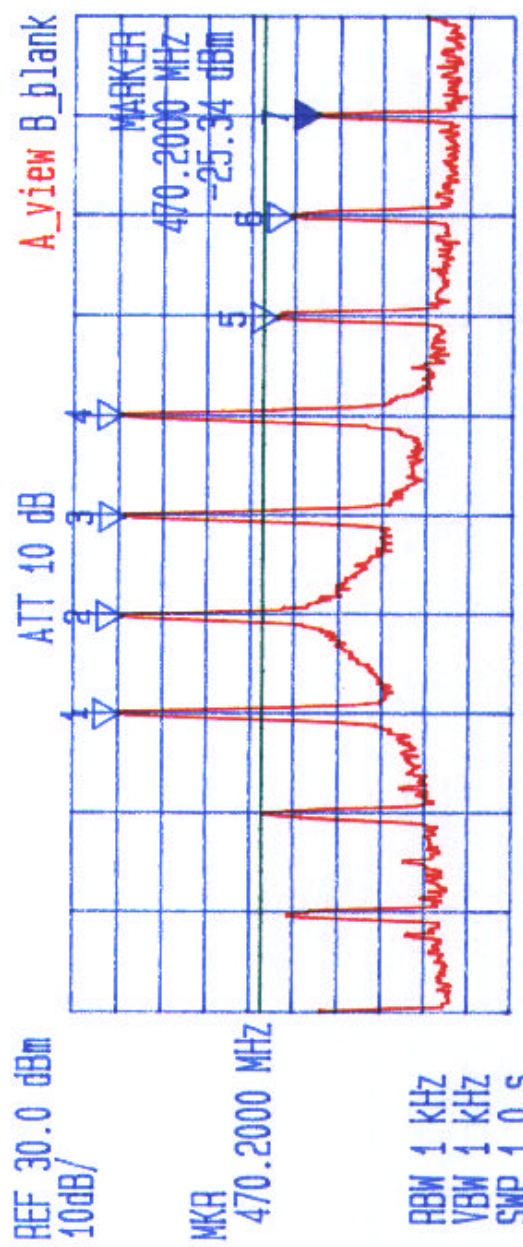
SPAN 500 kHz

CENTER 470.0000 MHz

*** Multi Marker List ***			
No. 1:	469.9479 MHz	19.25 dBm	A
No. 2:	469.9986 MHz	20.03 dBm	A
No. 3:	470.0500 MHz	20.88 dBm	A
No. 4:	470.1000 MHz	-13.28 dBm	A
No. 5:	470.1507 MHz	-21.84 dBm	A
No. 6:	470.2007 MHz	-46.72 dBm	A
No. 7:			
No. 8:			
Δ:			

Date: April 24 2000  
 Tested by: Hung Trinh

**KAVAL TELECOM INC.**  
**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz**  
 Intermodulation with 4 RF Input signals in 403-512 MHz band  
 470.05, 470.1486, 469.95 & 470.10 MHz



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

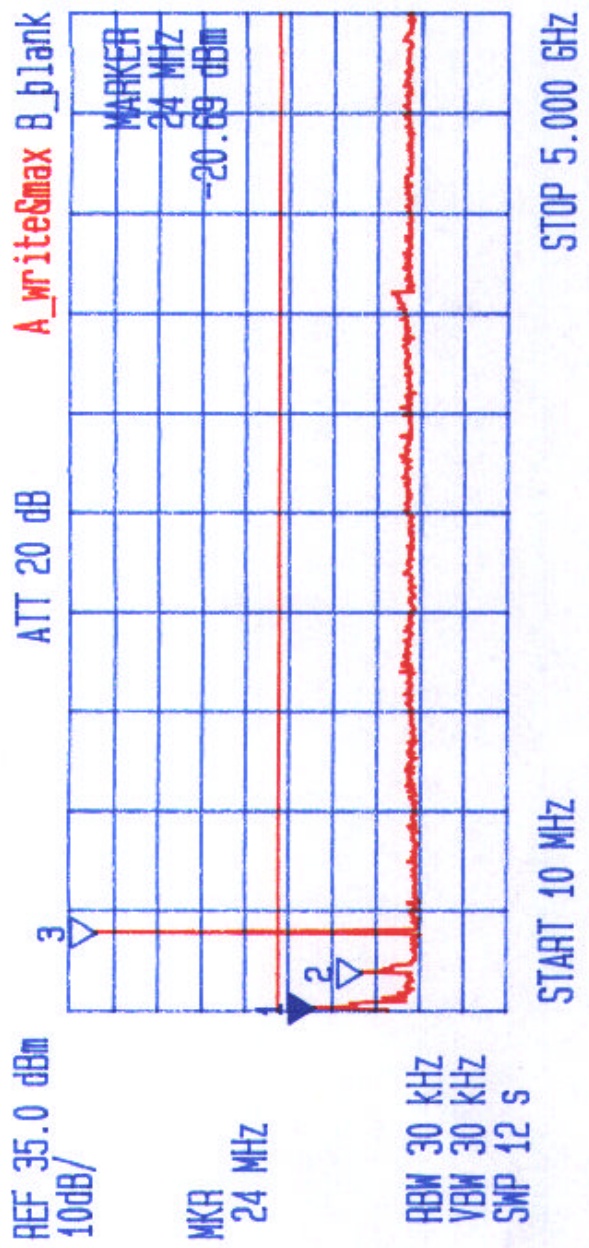
No.	Freq (MHz)	Power (dBm)	Label
1	469.8993	19.50	A
2	469.9486	19.03	A
3	469.9986	18.94	A
4	470.0500	19.00	A
5	470.0986	-15.91	A
6	470.1486	-19.38	A
7	470.2000	-25.34	A

- No. 1: Δ
- No. 2: Δ
- No. 3: Δ
- No. 4: Δ
- No. 5: Δ
- No. 6: Δ
- No. 7: Δ
- No. 8: Δ



Date: April 17 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.: \_\_\_\_ kHz  
**Transmitter Antenna Power Conducted Emissions**



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

No. 1:	24 MHz	-20.69 dBm	A
No. 2:	202 MHz	-31.66 dBm	A
No. 3:	402 MHz	29.28 dBm	A
No. 4:			
No. 5:			
No. 6:			
No. 7:			
No. 8:			
Δ:			



**KAVAL TELECOM INC.**

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

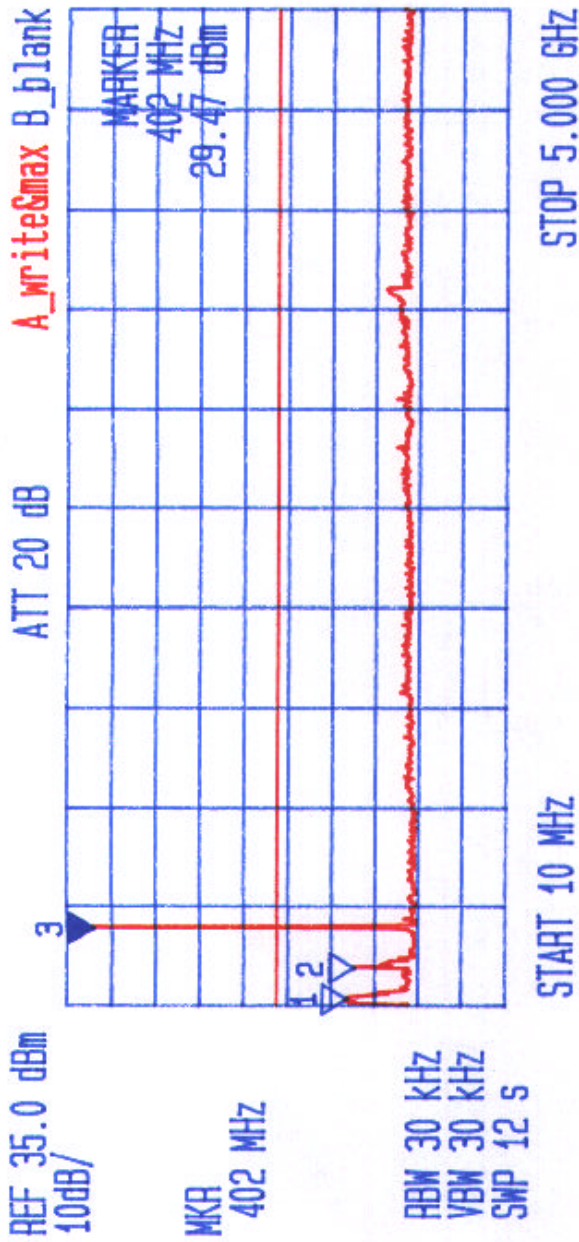
Tx Freq.: 406.125 MHz, RF Output: 1.4 Watts

RF In at level of -40 dBm @ 406.125 MHz

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

**Transmitter Antenna Power Conducted Emissions**

Date: April 17, 2000  
Tested by: Hung Trinh



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

46 MHz	-28.66 dBm	A
202 MHz	-30.28 dBm	A
402 MHz	29.47 dBm	A

No. 1: Δ  
No. 2:  
No. 3:  
No. 4:  
No. 5:  
No. 6:  
No. 7:  
No. 8: Δ



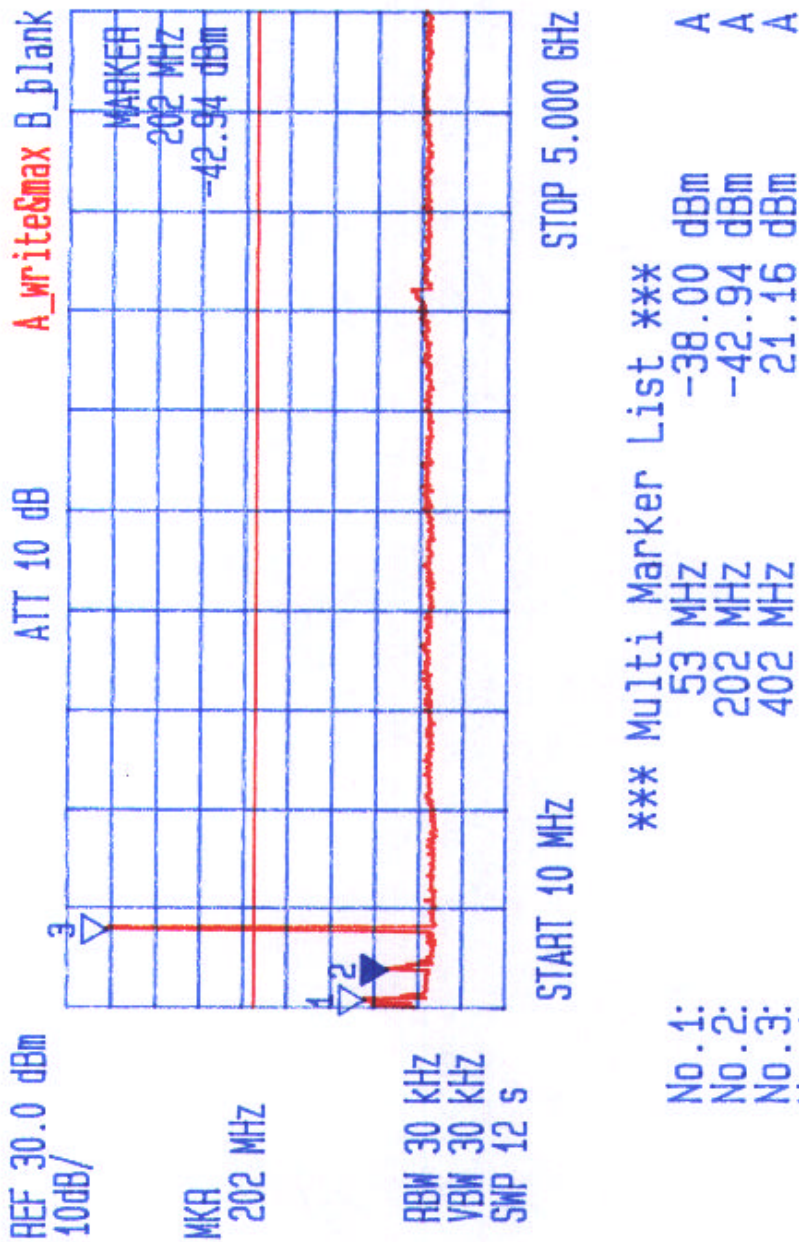
Date: April 17 2000  
Tested by: Hung Trinh

**KAVAL TELECOM INC.**

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

Spurious Emissions at 403 - 512 MHz Output with 2 RF Input signals  
406.15 & 406.10 MHz

**UltraTech**  
Engineering Labs Inc.





**KAVAL TELECOM INC.**  
**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz**  
 Spurious Emissions at 403 - 512 MHz Output with 3 RF Input signals  
**406.125, 406.175, & 406.075 MHz**

Date: April 17 2000  
 Tested by: Hung Triish

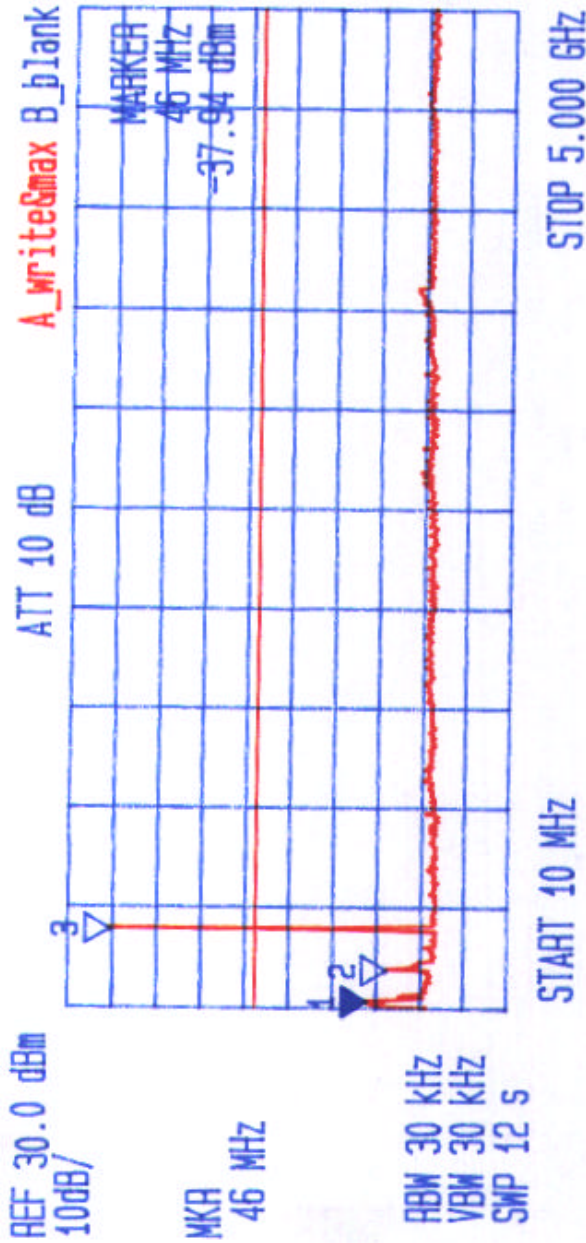


EXHIBIT 9 - PLOT #49 OF 60

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

46 MHz	-37.94 dBm	A
202 MHz	-42.34 dBm	A
402 MHz	20.56 dBm	A

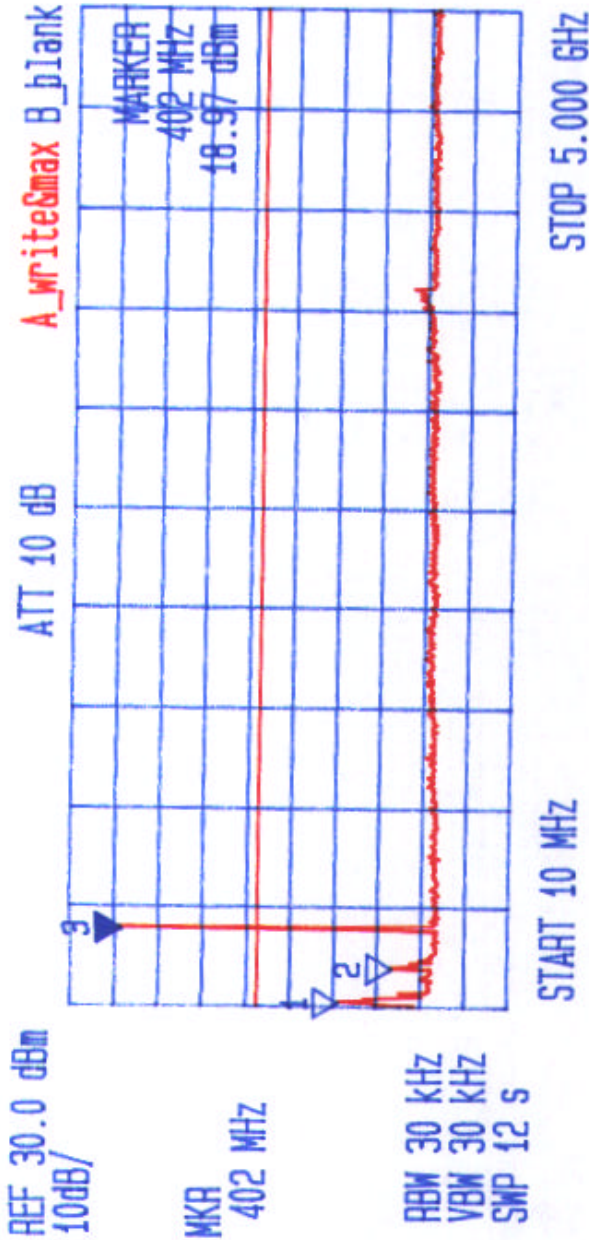
No. 1: Δ  
 No. 2:  
 No. 3:  
 No. 4:  
 No. 5:  
 No. 6:  
 No. 7:  
 No. 8:





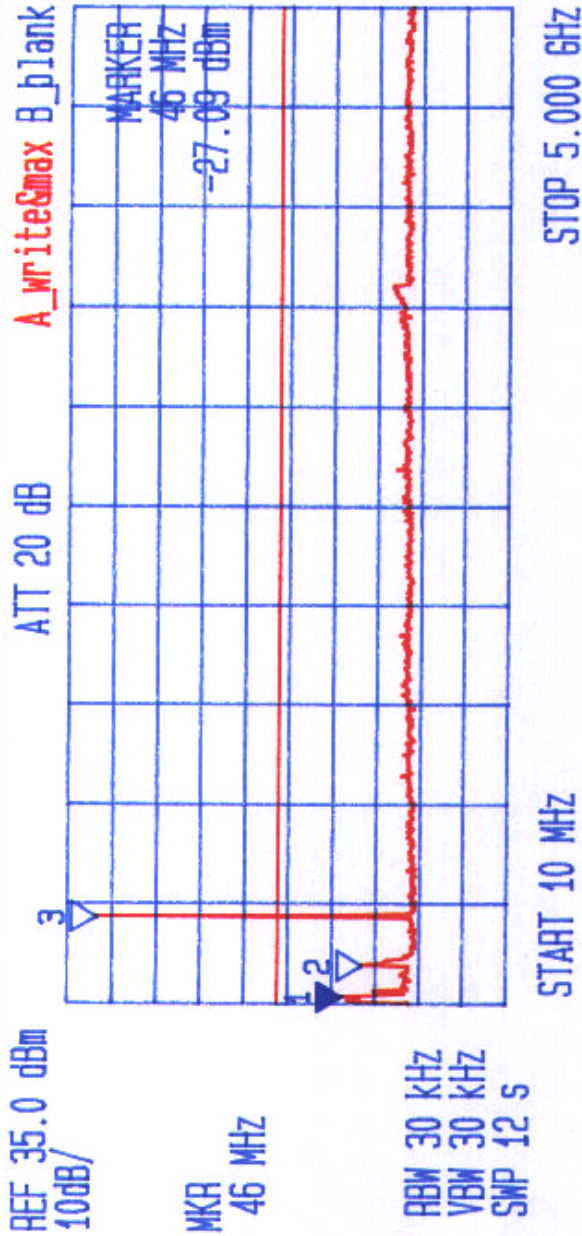
**KAVAL TELÉCOM INC.**  
BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz  
Spurious Emissions at 403 - 512 MHz Output with 4 RF Input signals  
406.125, 406.175, 406.225 & 406.075 MHz

Date: April / Z / 2000  
Tested By: Hung Trinh



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

No.	Marker	List	***
No. 1:	31 MHz	-31.50 dBm	A
No. 2:	202 MHz	-43.22 dBm	A
No. 3:	402 MHz	18.97 dBm	A
No. 4:			
No. 5:			
No. 6:			
No. 7:			
No. 8:			
Δ:			



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

No.	1:	No.	2:	No.	3:	No.	4:	No.	5:	No.	6:	No.	7:	No.	8:	Δ:
	46 MHz		-27.09 dBm													A
	202 MHz		-31.94 dBm													A
	445 MHz		28.78 dBm													A





**UltraTech**  
Engineering Labs Inc.

**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.: \_\_\_\_ kHz

**Transmitter Antenna Power Conducted Emissions**

Date: April 17, 2000  
Tested by: Hung Trinh

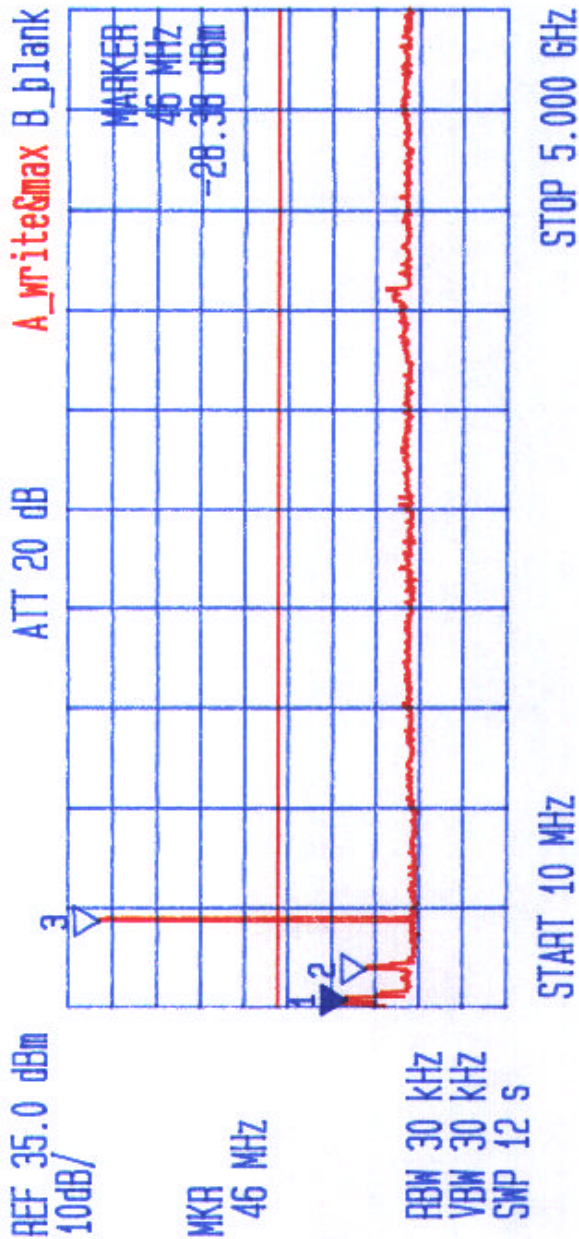


EXHIBIT 9 - PLOT #52 OF 60

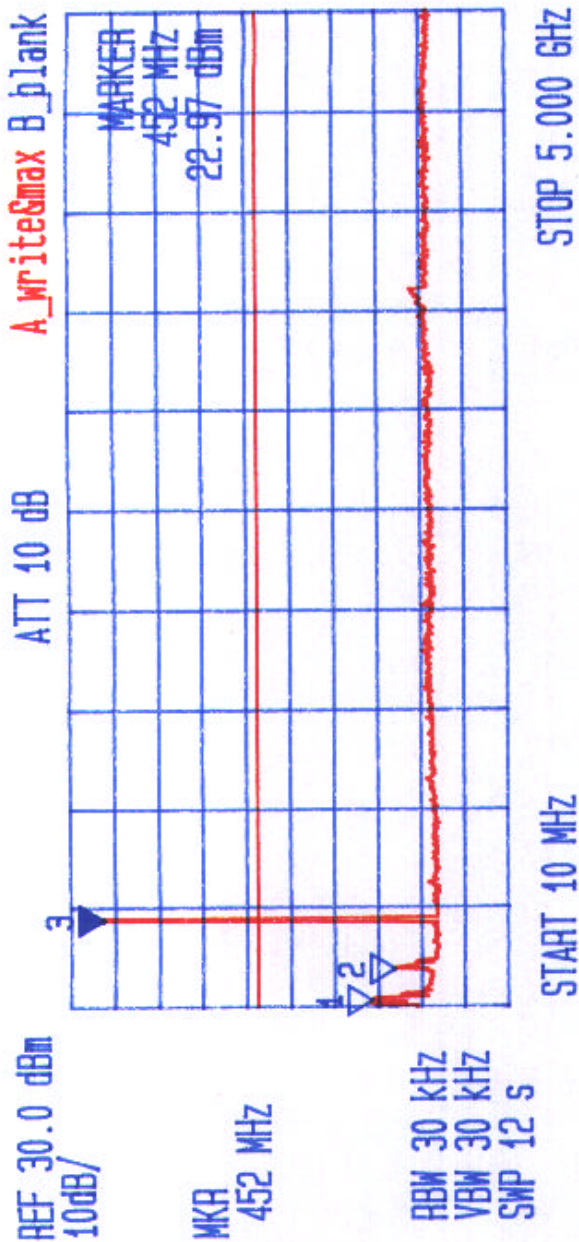
\*\*\* Multi Marker List \*\*\*

No.	1:	2:	3:	4:	5:	6:	7:	8:	Δ:
	46	202	445						
	MHz	MHz	MHz						
	-28.38	-32.63	28.44						
	dBm	dBm	dBm						

Date: April 17 2000  
Tested by: Hung Trinh

KAVAL TELECOM INC.  
BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz  
Spurious Emissions at 403 - 512 MHz Output with 2 RF Input signals  
450.025 & 449.975 MHz

**UltraTech**  
Engineering Labs Inc.



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

No. 1:	46 MHz	-38.75 dBm	A
No. 2:	202 MHz	-43.59 dBm	A
No. 3:	452 MHz	22.97 dBm	A
No. 4:			
No. 5:			
No. 6:			
No. 7:			
No. 8:			
Δ:			





**UltraTech**  
Engineering Labs Inc.

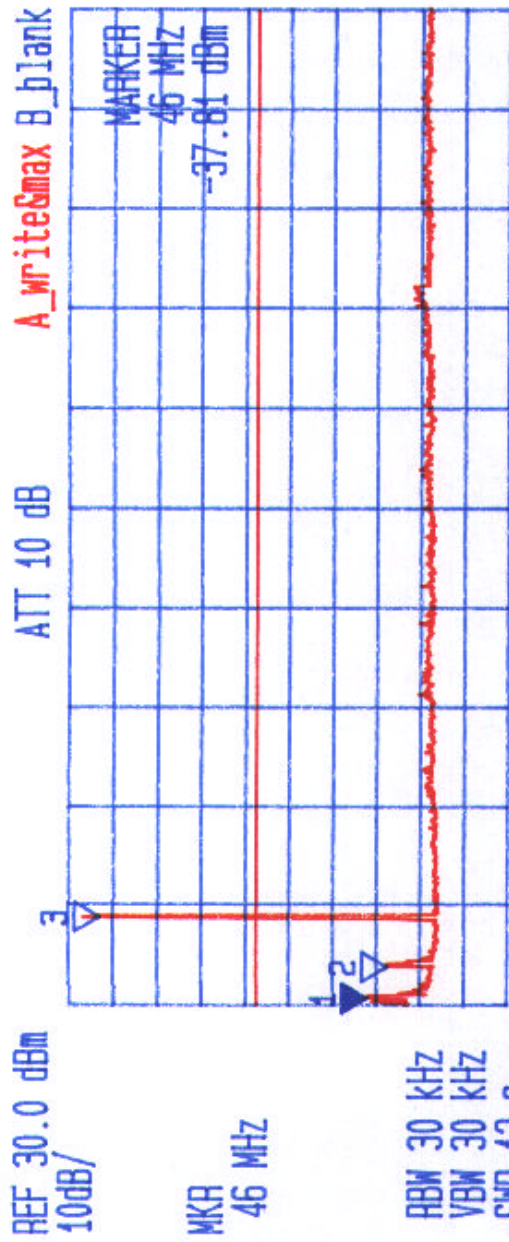
**KAVAL TELECOM INC.**

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

Spurious Emissions at 403 - 512 MHz Output with 3 RF Input signals

**450.05, 450.00, & 449.95 MHz**

Date: April 17 2000  
Tested by: Hung Trinh



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

No.	1:	2:	3:	4:	5:	6:	7:	8:	Δ:
	46 MHz	202 MHz	452 MHz	-37.81 dBm	-42.22 dBm	23.47 dBm	A	A	A



**UltraTech**  
Engineering Labs Inc.

KAVAL TELECOM INC.

BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz

Spurious Emissions at 403 - 512 MHz Output with 4 RF Input signals

450.05, 450.00, 449.95, & 450.10 MHz

Date: April 17 2000  
Tested by: Hung Trinh

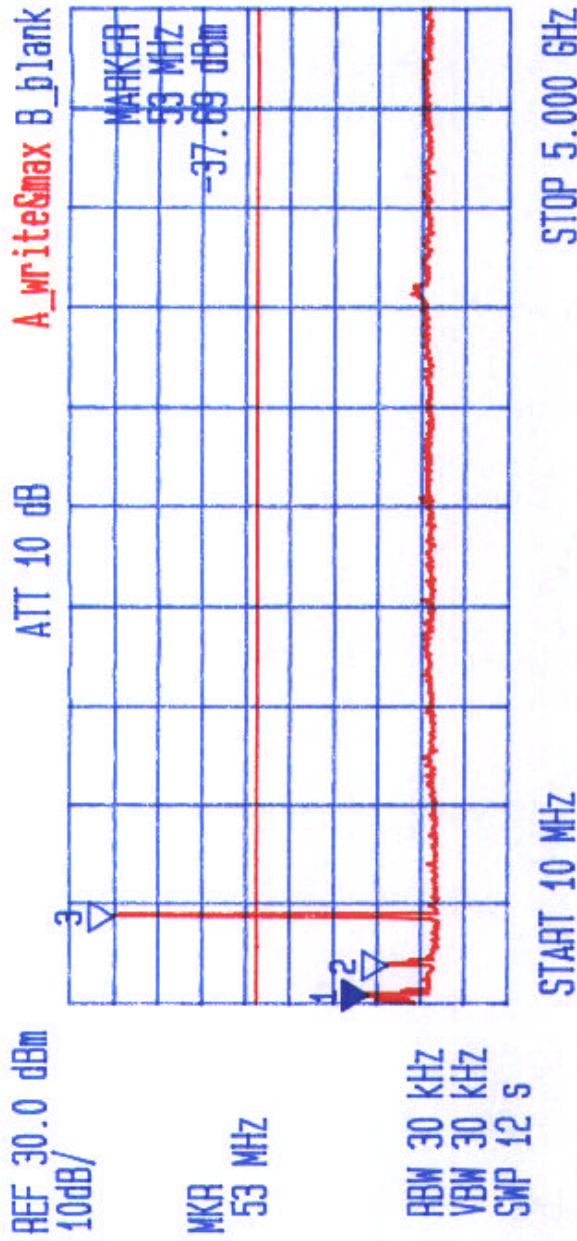


EXHIBIT 9 - PLOT #55 OF 60

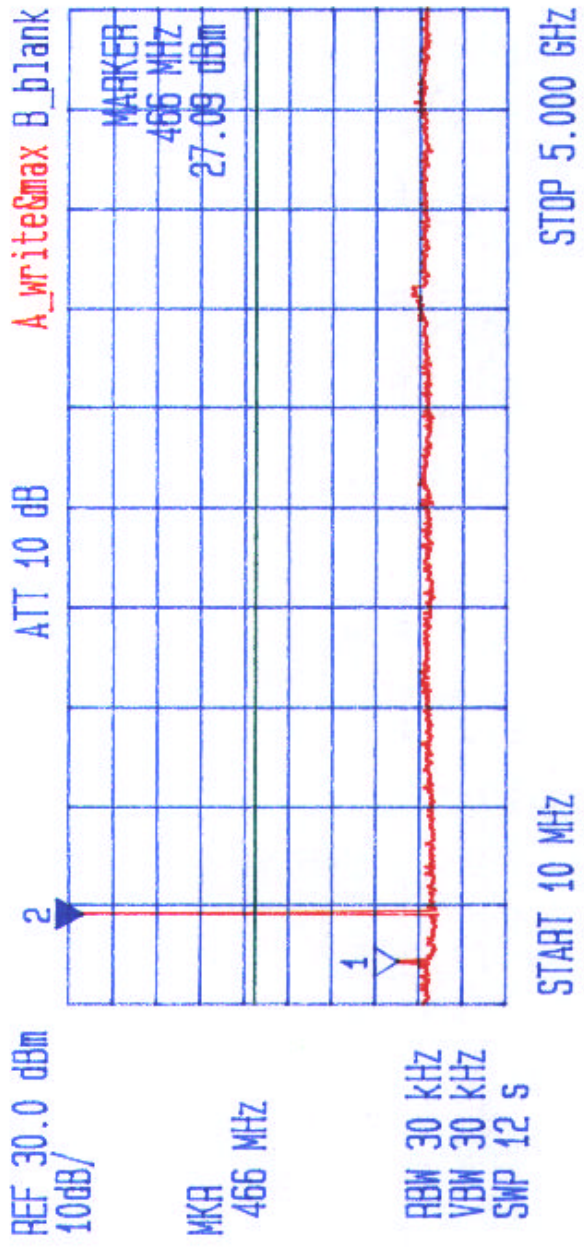
\*\*\* Multi Marker List \*\*\*

No.	Marker	List	***
NO. 1:	53 MHz	-37.69 dBm	A
NO. 2:	202 MHz	-42.31 dBm	A
NO. 3:	445 MHz	20.00 dBm	A
NO. 4:			
NO. 5:			
NO. 6:			
NO. 7:			
NO. 8:			
Δ:			



**KAVAL TELECOM INC.**  
**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz**  
 Tx Freq.: 470 MHz, RF Output: 0.83 Watts  
 RF In at level of -40 dBm @ 470 MHz  
 Mod: FM Modulated with 2.5 kHz Sine Wave signal, F req. Dev.: 4 kHz  
**Transmitter Antenna Power Conducted Emissions**

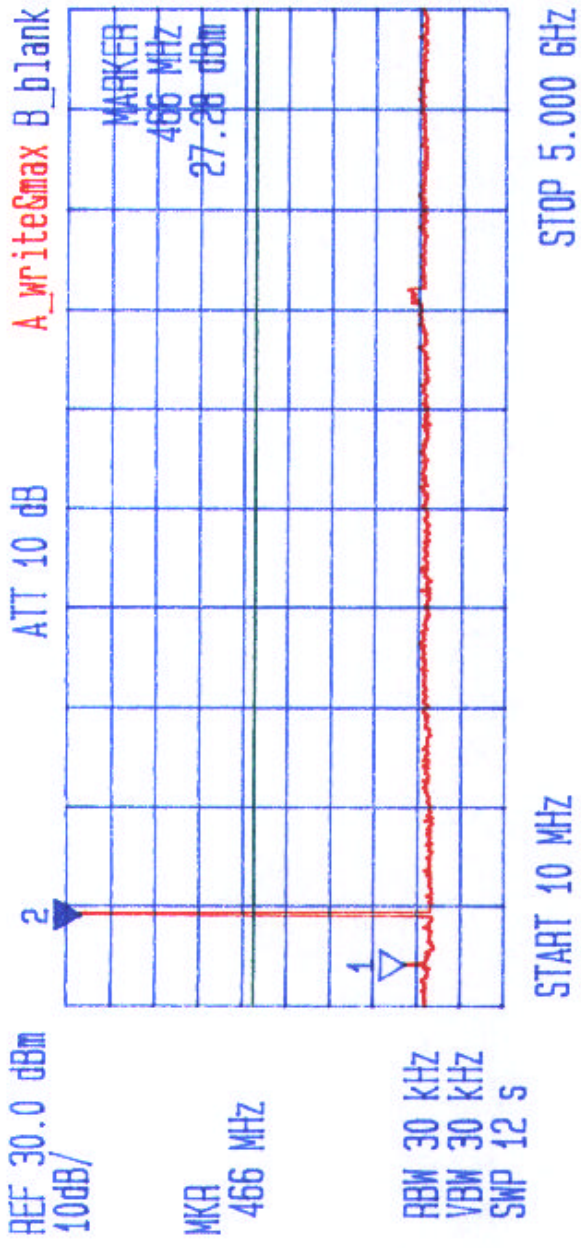
Date: April 03 2000  
 Tested by: Hung Trinh



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

No.	1:	224 MHz	-45.38 dBm	A
No. 2:	466 MHz	27.09 dBm	A	

**KAVAL TELECOM INC.**  
**BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz**  
 Tx Freq: 470 MHz, RF Output: 0.88 Watts  
 RF In at level of 40 dBm @ 470 MHz  
 Mod: FM Modulated with an external 9600 b/s random data, Freq. Dev.: 4 kHz  
**Transmitter Antenna Power Conducted Emissions**







**UltraTech**  
Engineering Labs Inc.

KAVAL TELECOM INC.

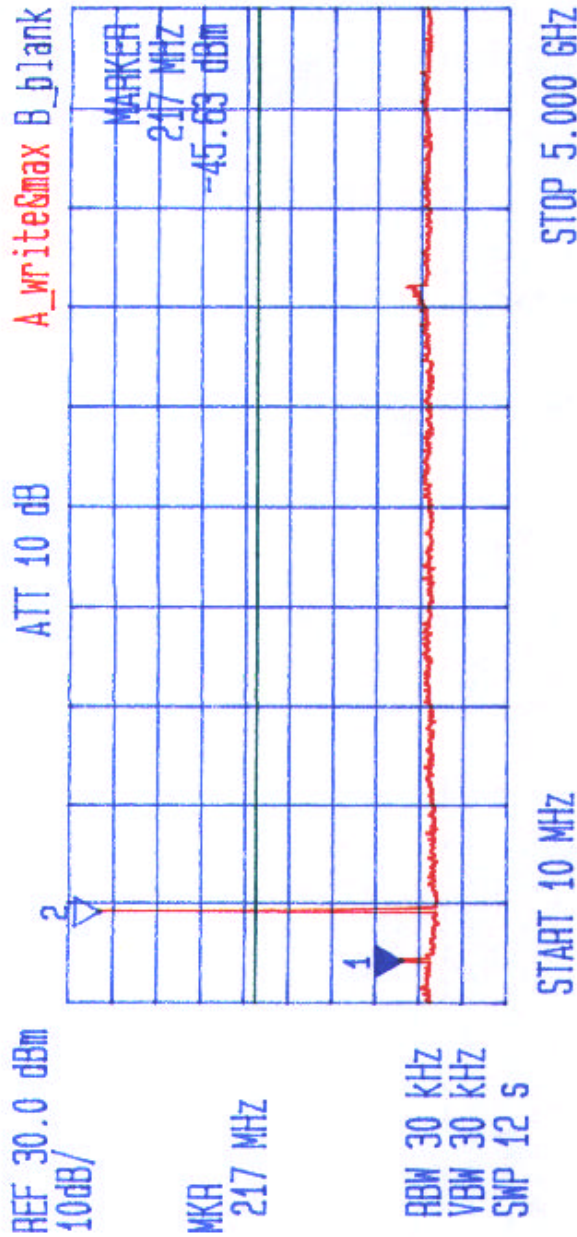
BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz

Spurious Emissions at 403-512 MHz Output with 2 RF Input signals

470.085 A 469.975 MHz

Date: April 03 2000

Tested by: Hung Trinh



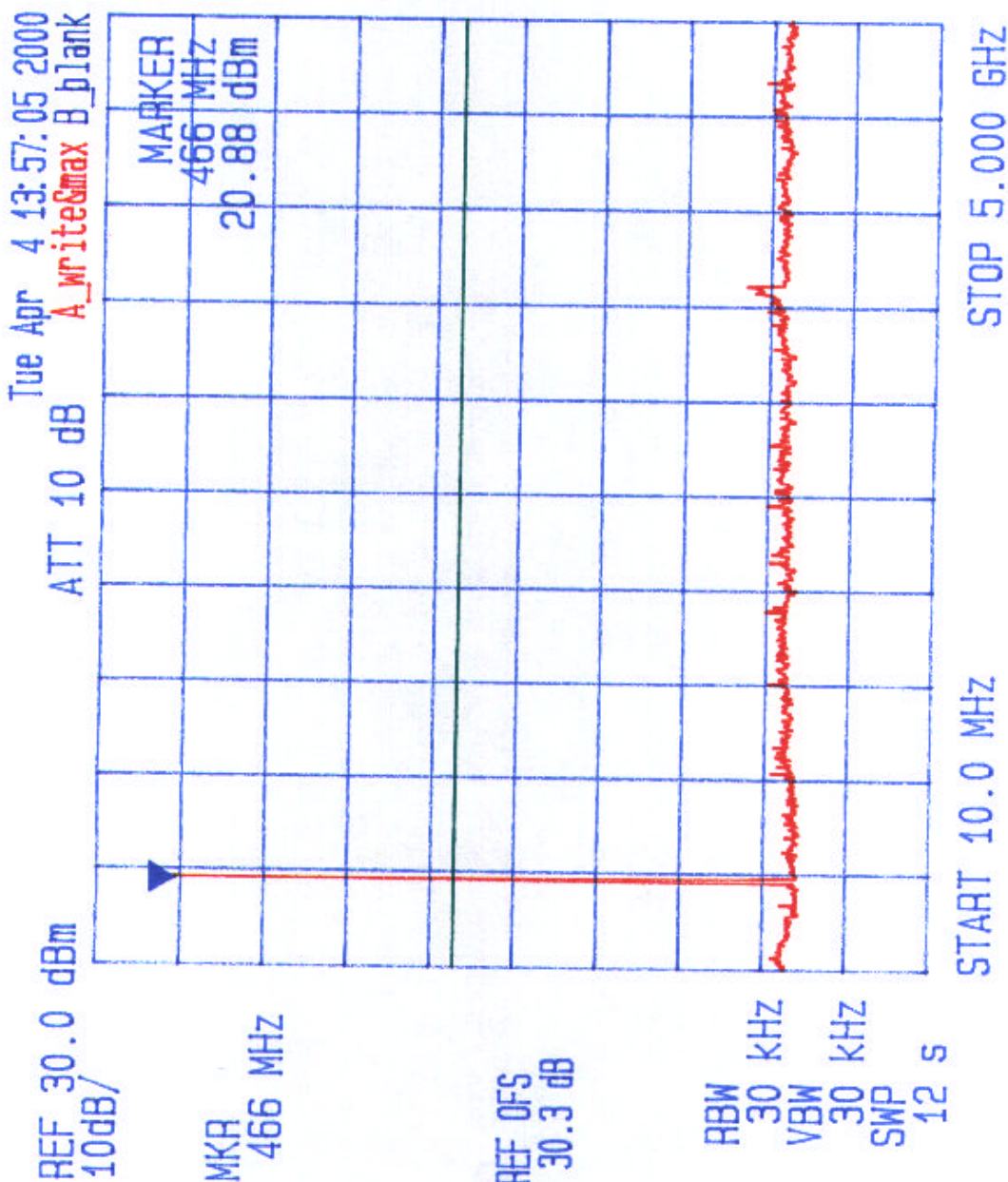
No. 1:  
No. 2:  
No. 3:  
No. 4:  
No. 5:  
No. 6:  
No. 7:  
No. 8:  
Δ:

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

217 MHz	-45.63 dBm	A
466 MHz	23.28 dBm	A

Date: April 04 2000  
Tested by: Hung Trinh

KAVAL TELECOM INC.  
BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz  
Spurious Emissions at 403-512 MHz Output with 3 RF Input signals  
470.05, 470 & 469.95 MHz







**UltraTech**  
Engineering Labs Inc.

KAVAL TELECOM INC.

BDA1300 BI-DIRECTIONAL AMPLIFIER, UHF 403-512 MHz

Spurious Emissions at 403-512 MHz Output with 4 RF Input signals

#70.15, #70, #69.95 & #70.10 MHz

Date: April 25 2000  
Tested by: Hung Trinh

