

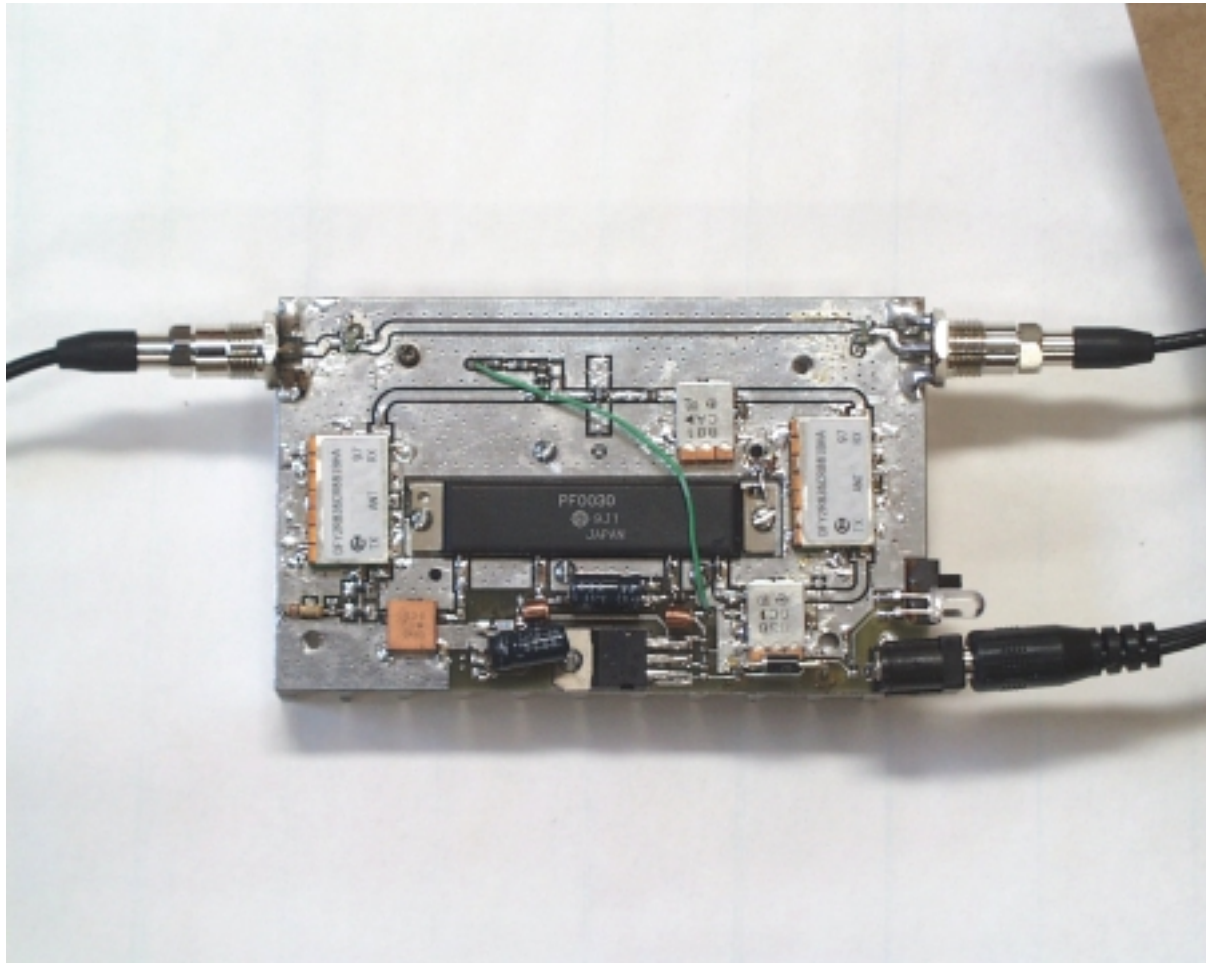


**BST 301 TRUNCKING BOOSTER**

Sample #1758	Signal Gen	Spec A	Losses*	Calculated	Gain
Frequency	RF Out (dBm)	Reading	(dB)	Out (dBm)	(dB)
		(dBm)			
806	10	-18.8	21.8	33.5	23.5
807	10	-18.6	21.8	33.7	23.7
813.5	10	-20.3	21.8	32	22
851	-13	-20	21.8	6	17.1
855	-13	-44.6	21.8	7.7	20.7
866	-13	-45.2	21.8	7.1	20.1
Note: *Losses Include Cable1 (0.9), Cable2 (0.9), Coupler (20),					
LOSSES= 21.8					
Signal Gen RF Out taken at 1dB compression point					

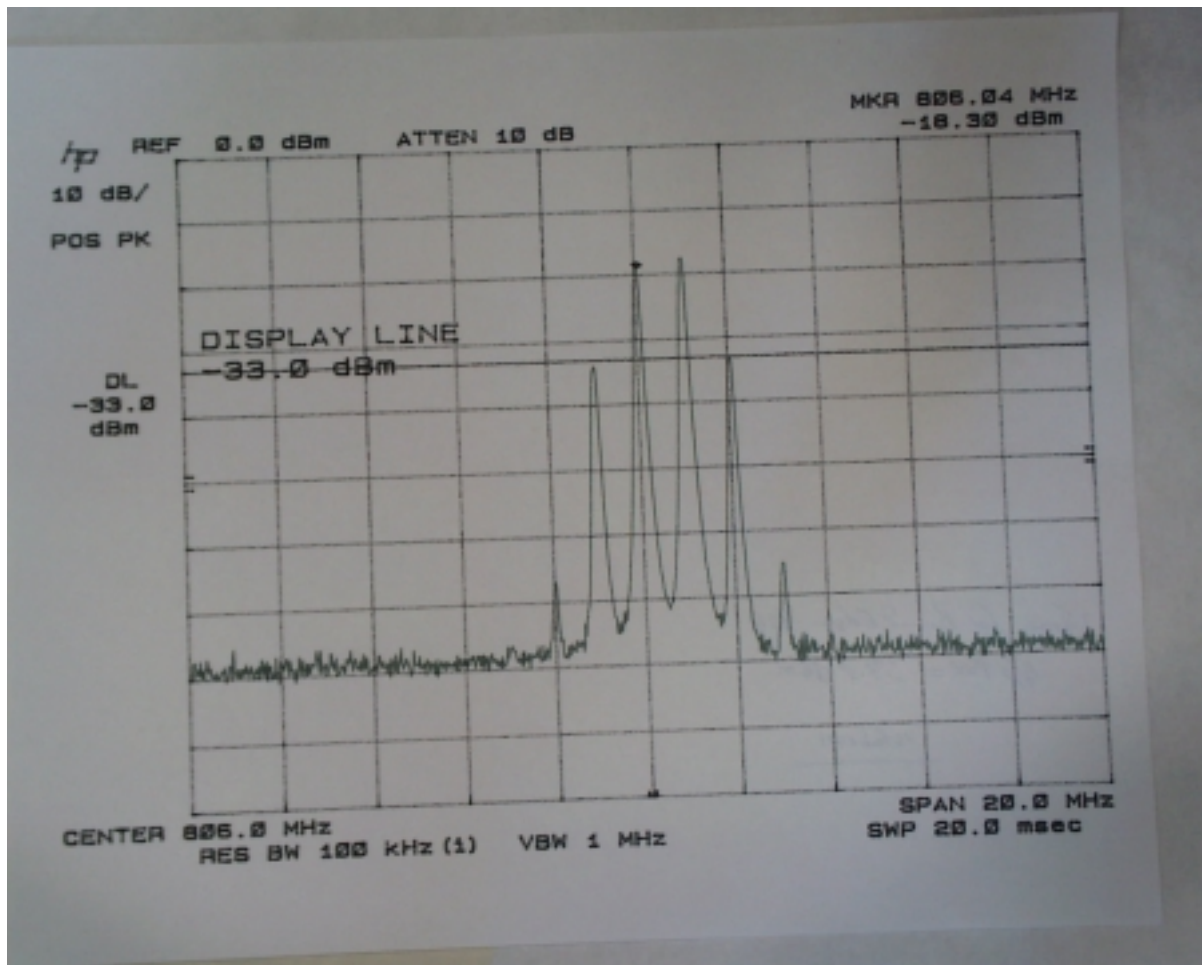
**The EUT complies with maximum power output requirements.**

TEST REPORT DATA				
Customer No: 208		MPBT No.: M34r2460	Test Date: Feb 7, 2001	
TEST COMP./PART: SAMPLE 1758	TEST DESCRIPTION: EMISSION LIMITATIONS FOR CELLULAR – OCCUPIED BANDWIDTH		TEST CRITERIA:	
MIL-SPECS./STDS.:	FCC PART 90 SUBPART G, SECTION 90.219		QUAL: ✓ ENG.:	
FACILITY: <b>MPB TECHNOLOGIES INC.</b>	TEST ENGINEER: D. BECK		INTERNAL:	
QA PERSONNEL:	OTHER: TEMP.: 21 C                      HUMIDITY: 20 %			
TEST PROCEDURES	DETAILS/DEVIATIONS	PASS	FAIL	INIT
	The EUT must meet the specifications of <b>either</b> (b) <b>or</b> (c)			
Mask (b)	(f <sub>c</sub> – 45 kHz) to (f <sub>c</sub> – 20 kHz), 26 dB			
	(f <sub>c</sub> + 20 kHz) to (f <sub>c</sub> + 45 kHz), 26 dB			
	0 to (f <sub>c</sub> – 45 kHz) , 60 <u>or</u> 43 + 10logP dB			
	(f <sub>c</sub> + 45 kHz) to (2 x f <sub>c</sub> ), 60 <u>or</u> 43 + 10logP dB			
Mask (c)	(f <sub>c</sub> – 20 kHz) to (f <sub>c</sub> – 12 kHz), 117log(f <sub>d</sub> /12)dB			
	(f <sub>c</sub> + 12 kHz) to (f <sub>c</sub> + 20 kHz), 117log(f <sub>d</sub> /12) dB			
	0 to (f <sub>c</sub> – 20 kHz), 100log(f <sub>d</sub> /12) <u>or</u> 60 <u>or</u> 43 + 10logP dB			
	(f <sub>c</sub> + 20 kHz) to (2 x f <sub>c</sub> ), 100log(f <sub>d</sub> /12) <u>or</u> 60 <u>or</u> 43+10logP dB			
	Note: dB refers to attenuation from the mean power of the unmodulated carrier			
	<b>OR</b>			
	For equipment which does not perform modulation and only amplifies the RF signal, pass/fail criteria shall be based on the following:			
	a) The 20 dB bandwidth of the modulated carrier shall be the same (input signal vs. output signal).	✓		D.B.
	b) The difference of the amplitudes between the input signal and the output signal shall remain consistent (+/- 0.5 dB), for the 20 dB bandwidth of the modulated carrier.	✓		D.B.
MPBT: D.BECK	CUSTOMER: M.C.T. INC.		4 OF 6	



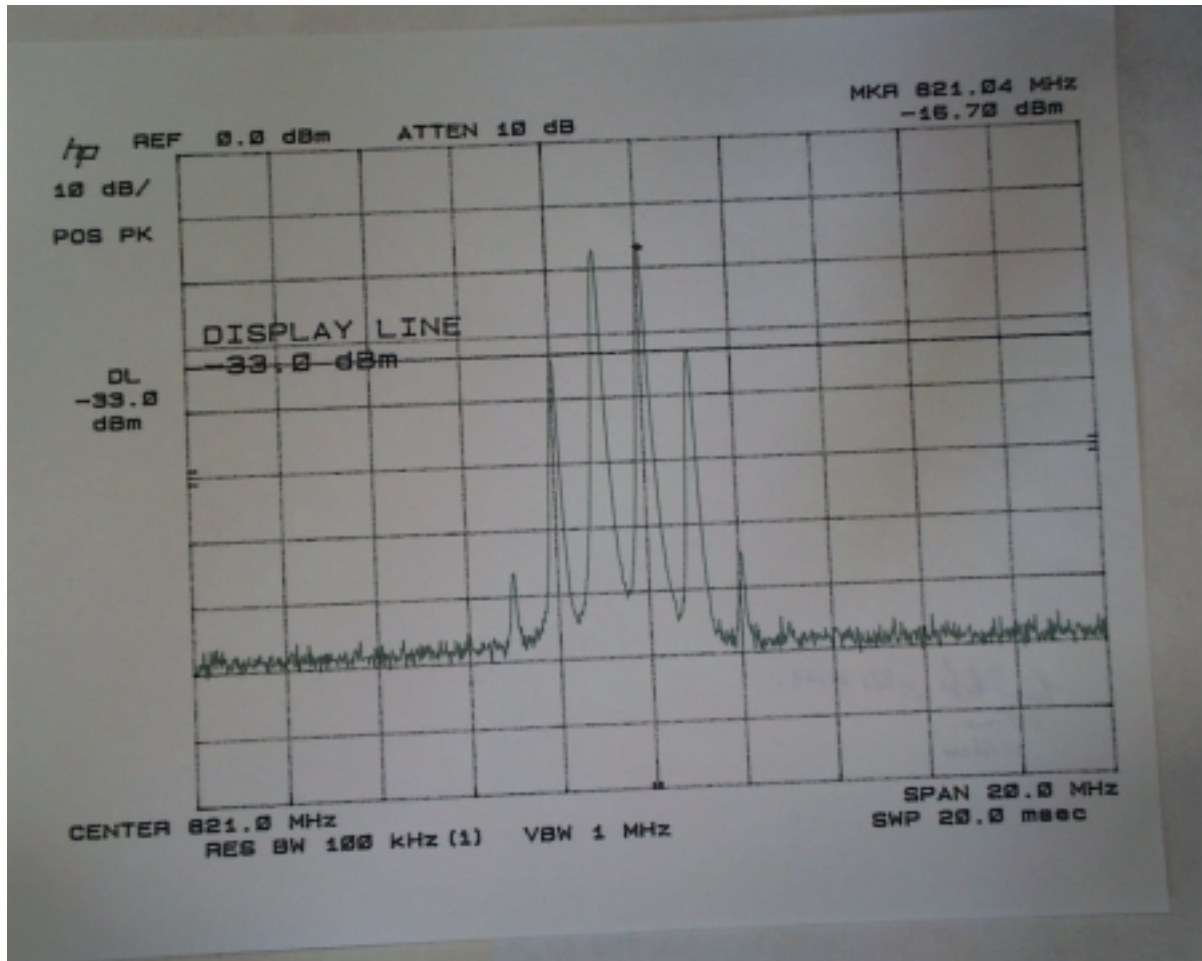
**BST 301 iDEN  
Construction Detail**

**Sample 1758**



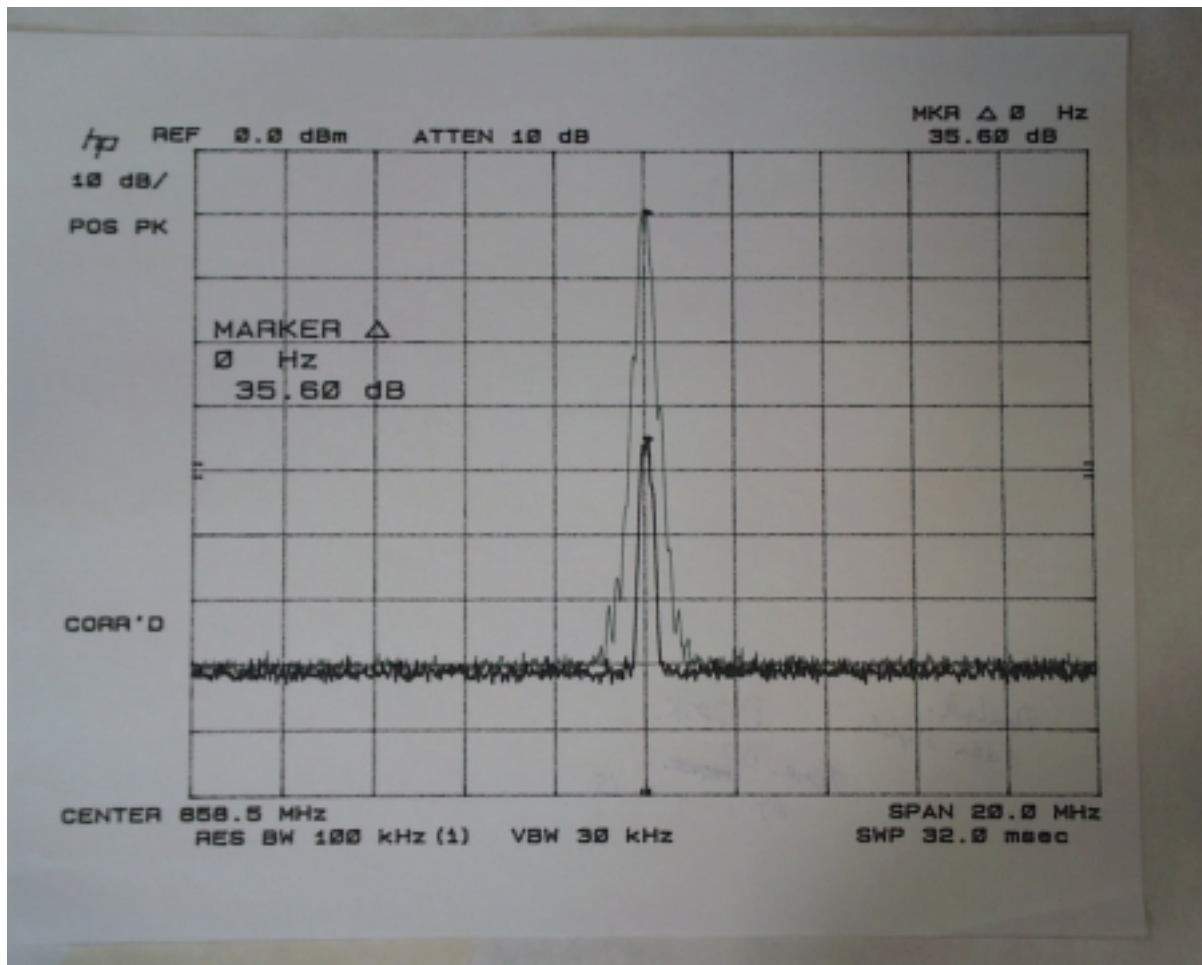
**BST301 Truncking Booster  
Sample 1758**

**TDMA @ 806mhz / 2-Tone f1=806 MHZ,f2=807 MHz with 20 dB external PAD**



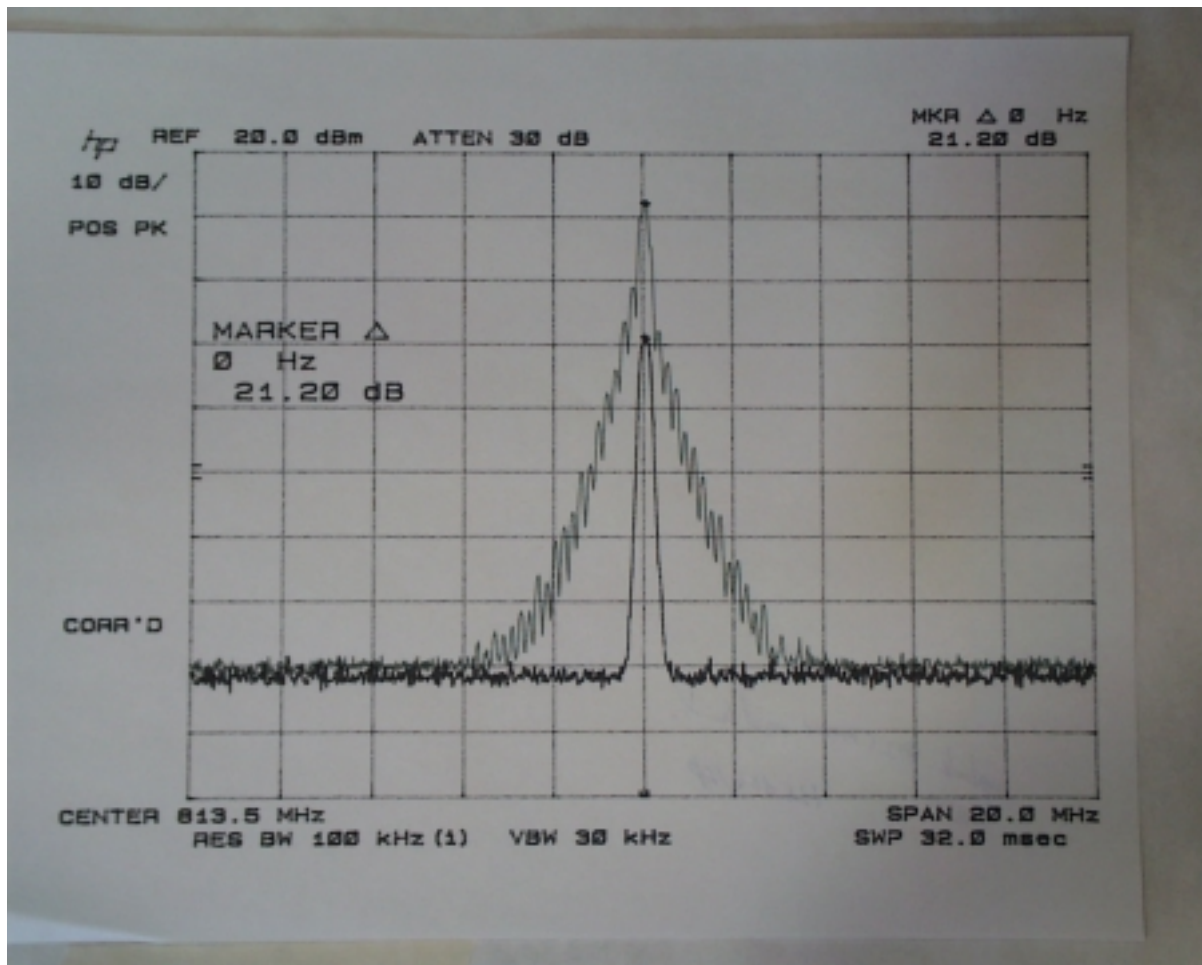
**BST301 Truncking Booster  
Sample 1758**

**TDMA @ 821 /**



**BST301 Truncking Booster  
Sample 1758**

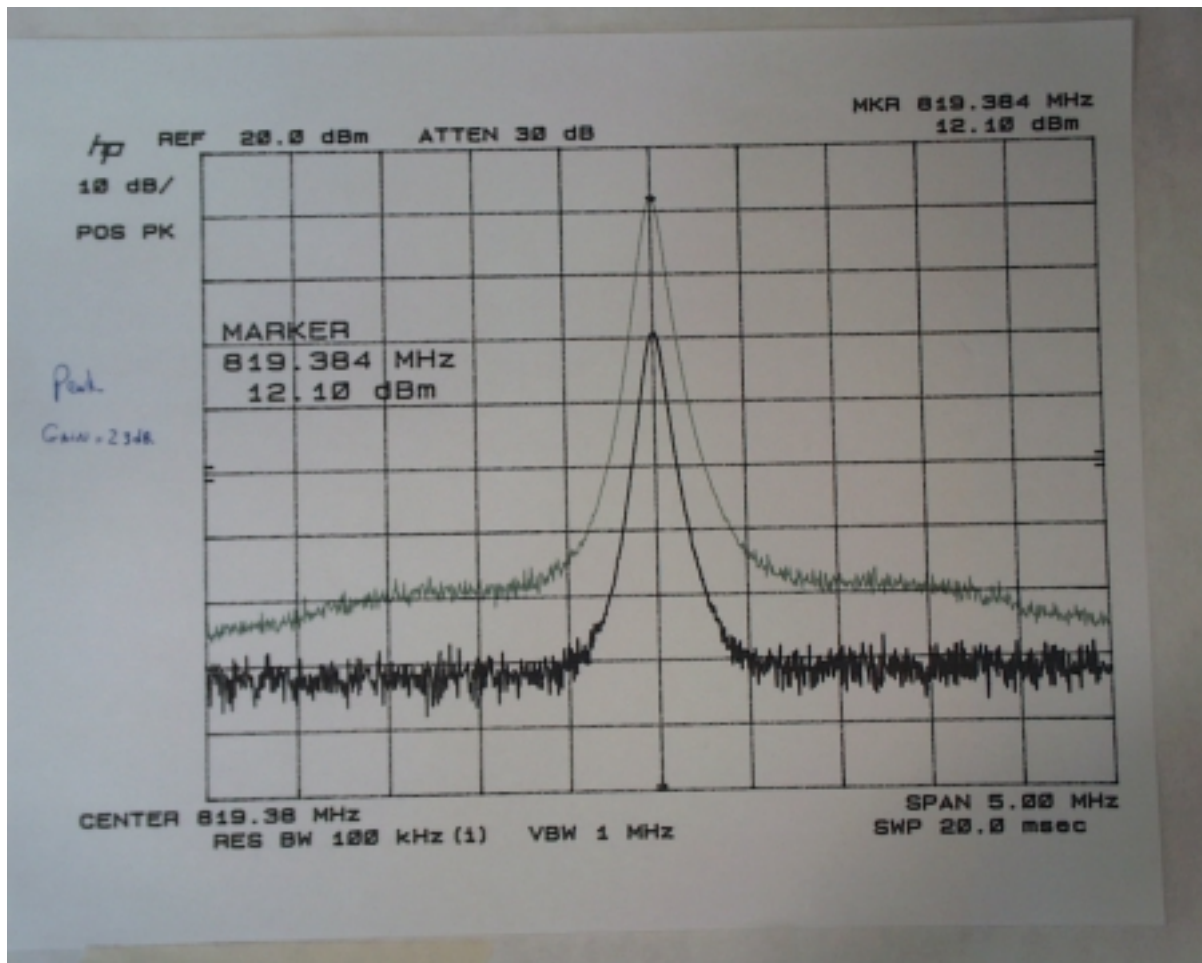
**TDMA @ 858.5 / Sig IN vs. Sig OUT**



**BST301 Truncking Booster  
Sample 1758**

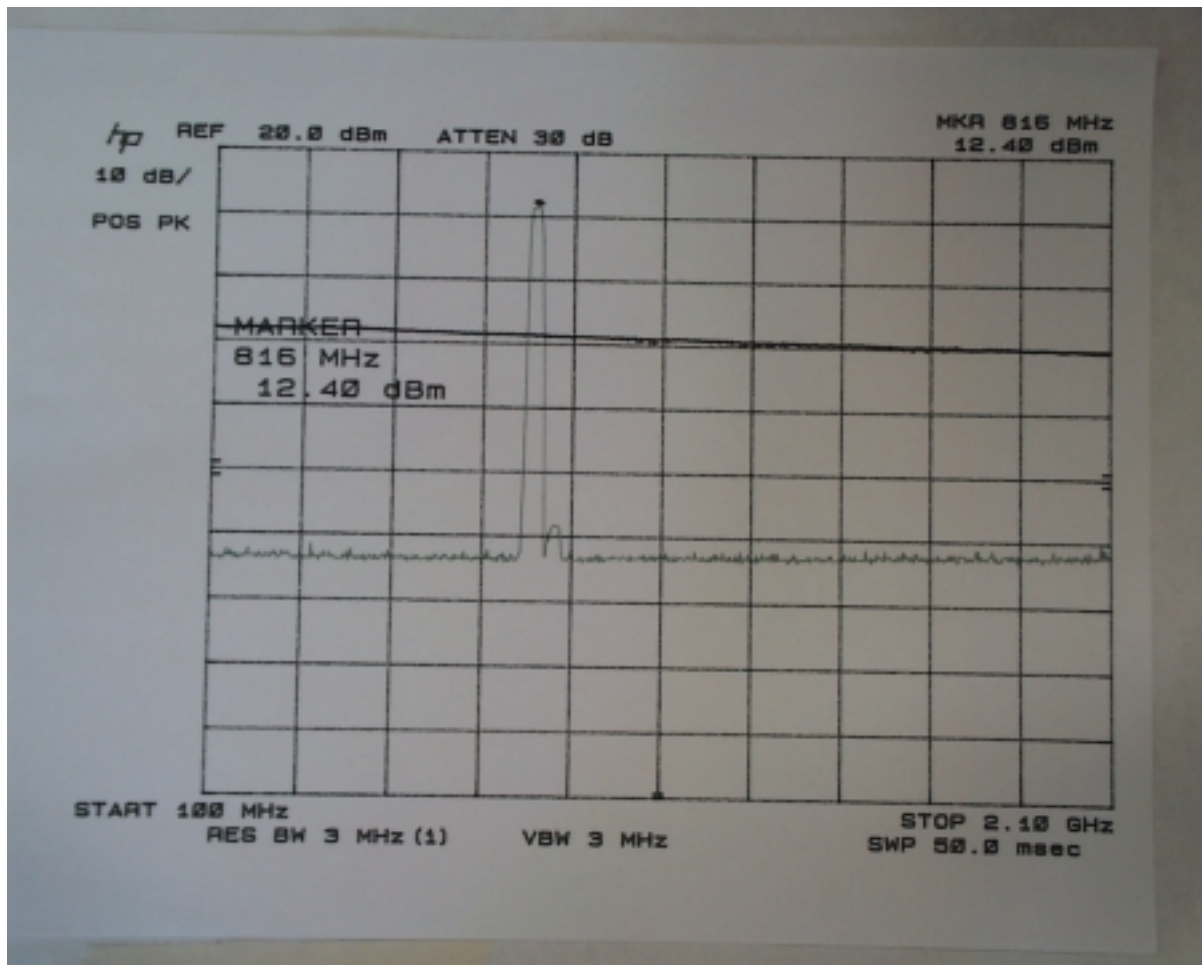
**Uplink 813.5 MHz Midband  
TDMA  
13.5dBm input**





**BST301 Truncking Booster  
Sample 1758**

**Peak Gain 23 dB**



**BST301 Truncking Booster  
Sample 1758**

**Gain versus Frequency**

**Bandpass**