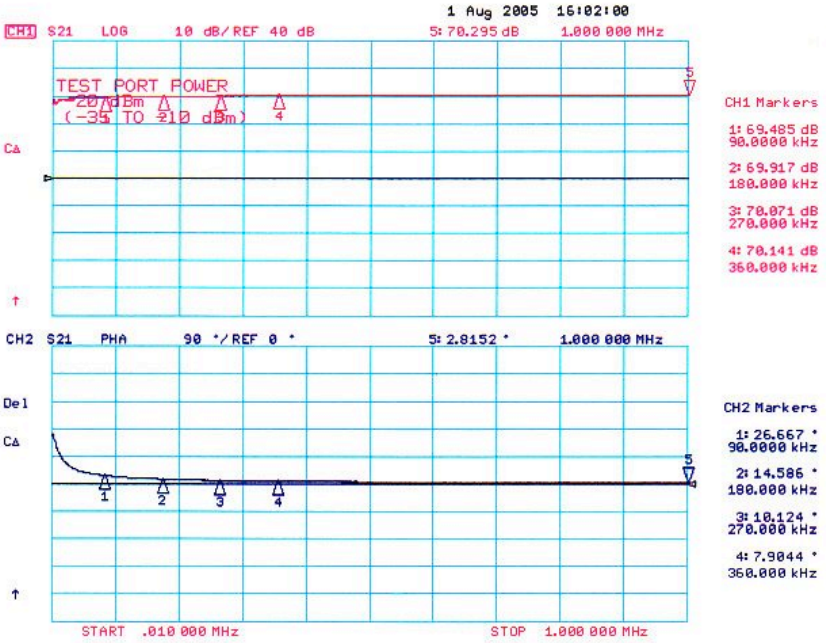
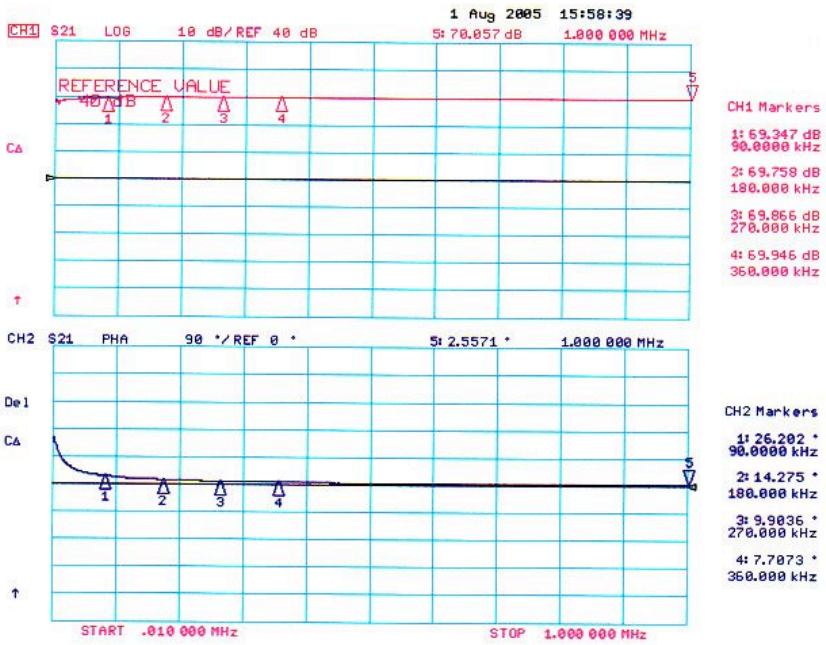
#22028

-20dBm
75W
208V



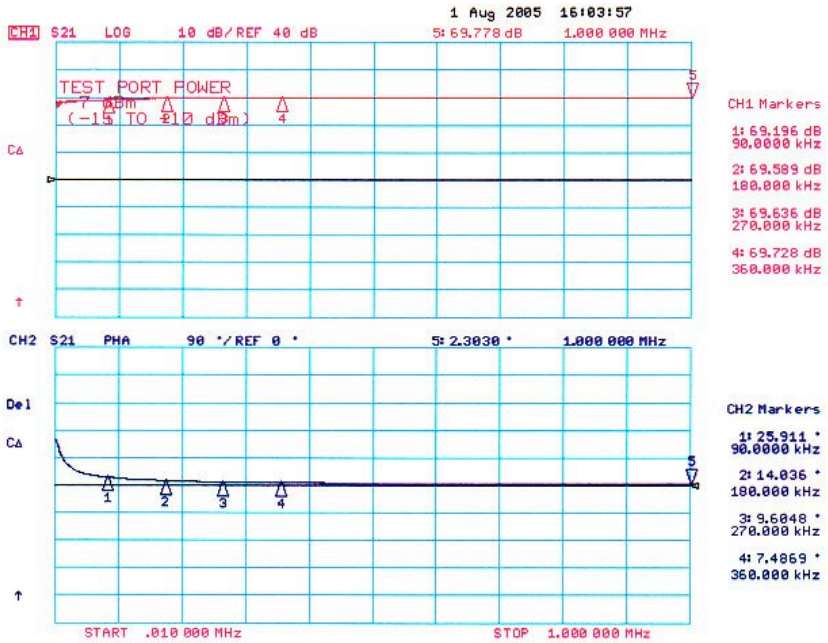
#22028

-10 dBm
1000W
208V



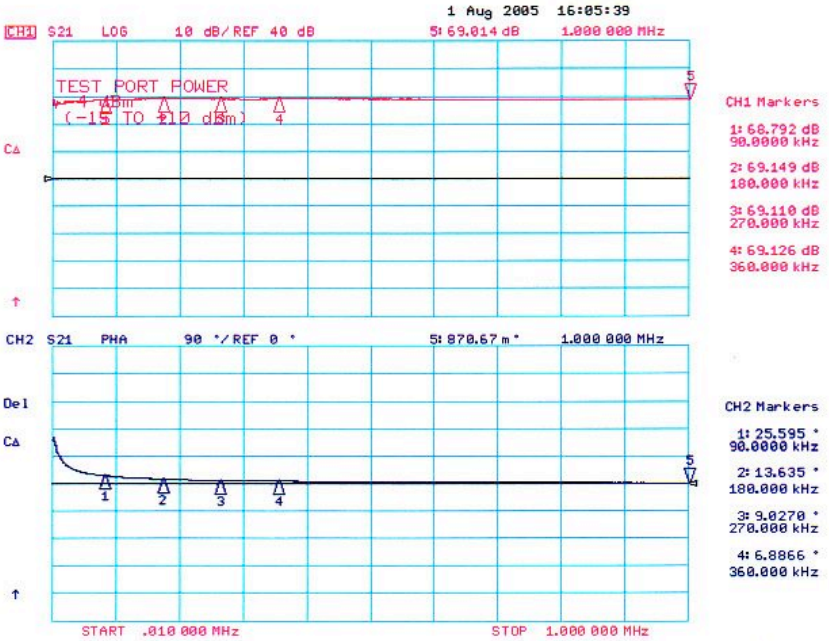
#22028

-7dBm
2000 ω
208V



#22028

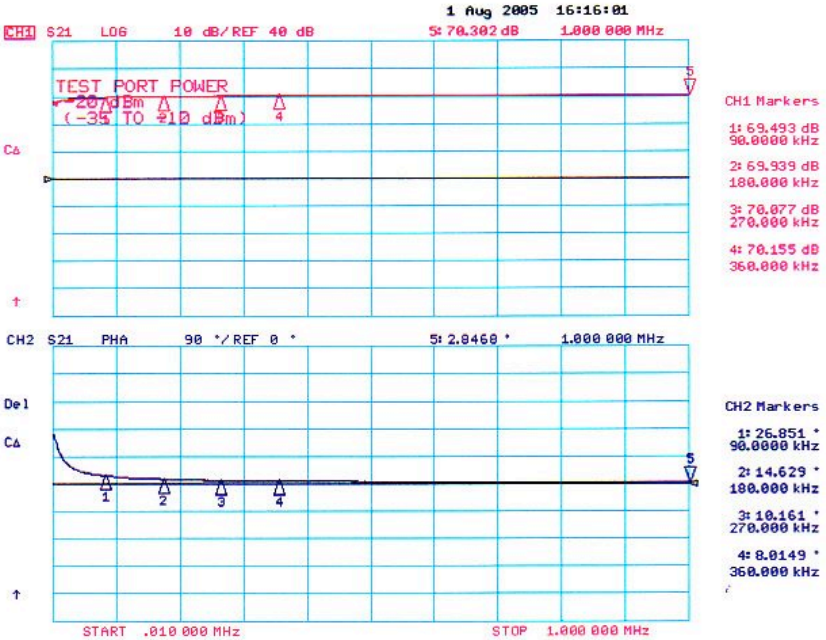
-4 dBm
3500 ω
208V



Electrical Delay 110.17 ns

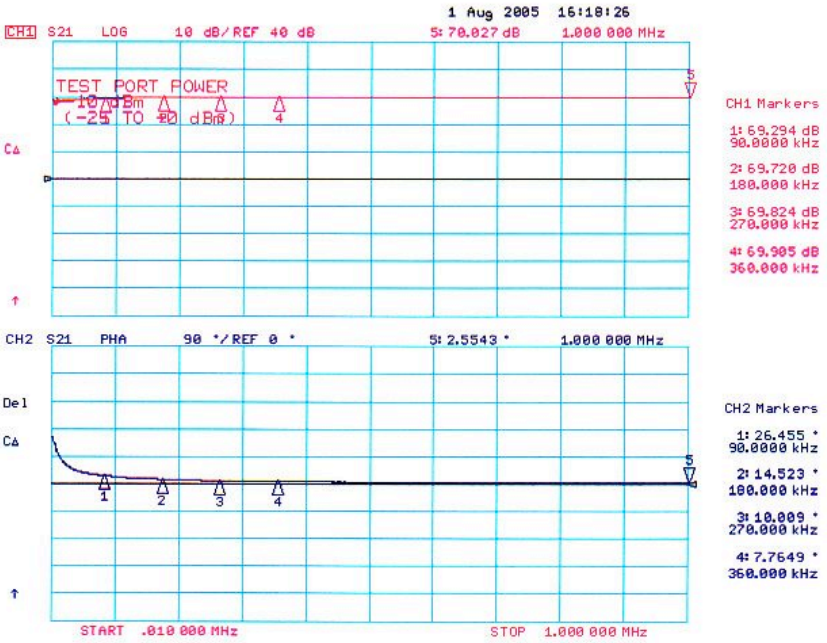
#22028

-20dBm
188V



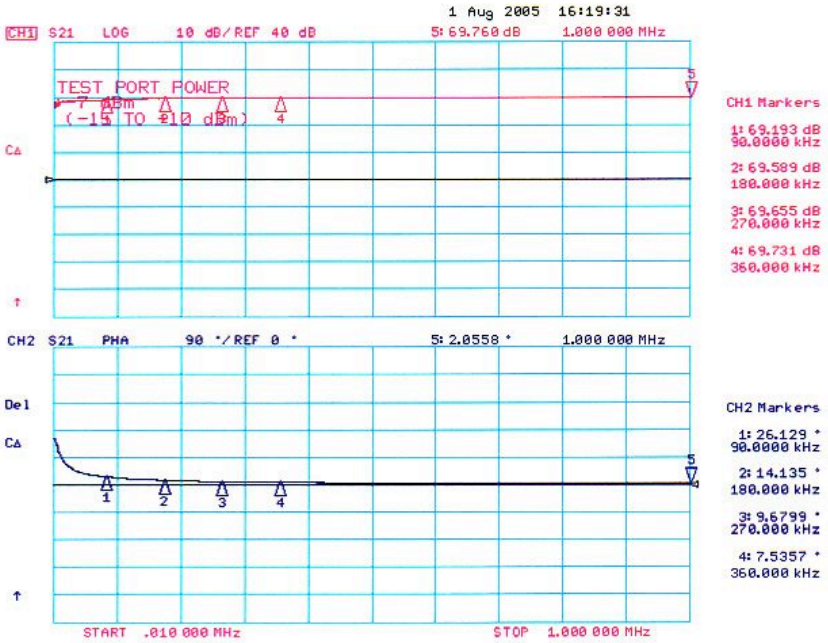
#22028

-10dBm
188V



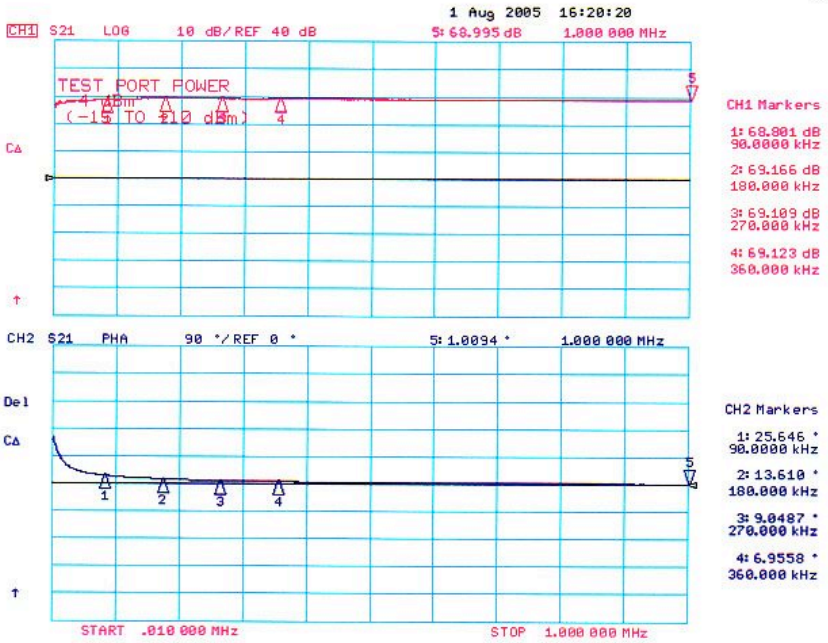
#22028

-7 dBm
188V



#22028

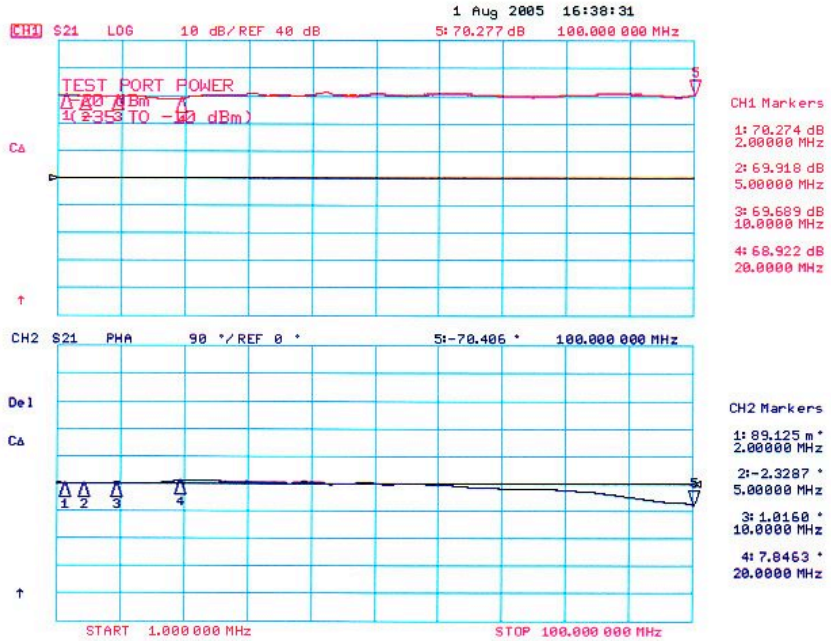
-4dBm
188V



Serial # 22028

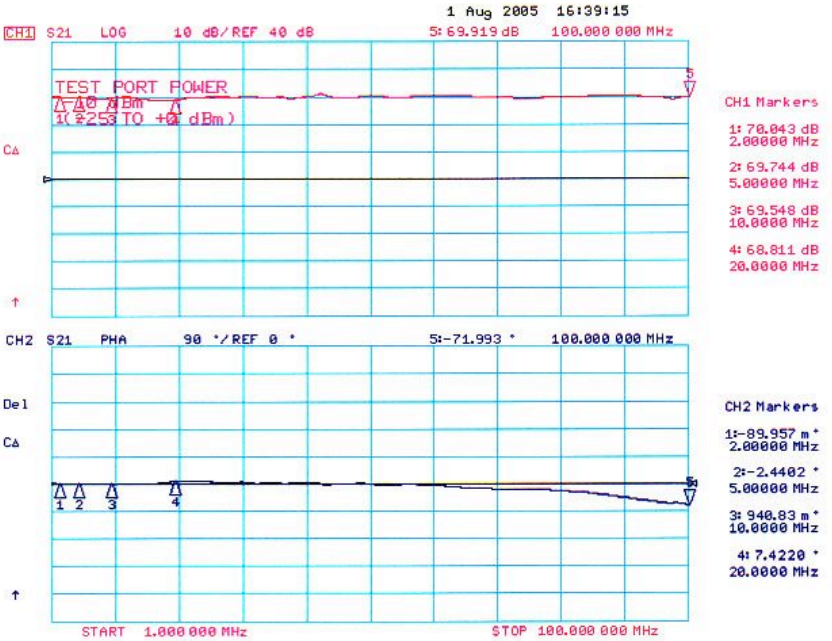
22028

-20dBm
188 V



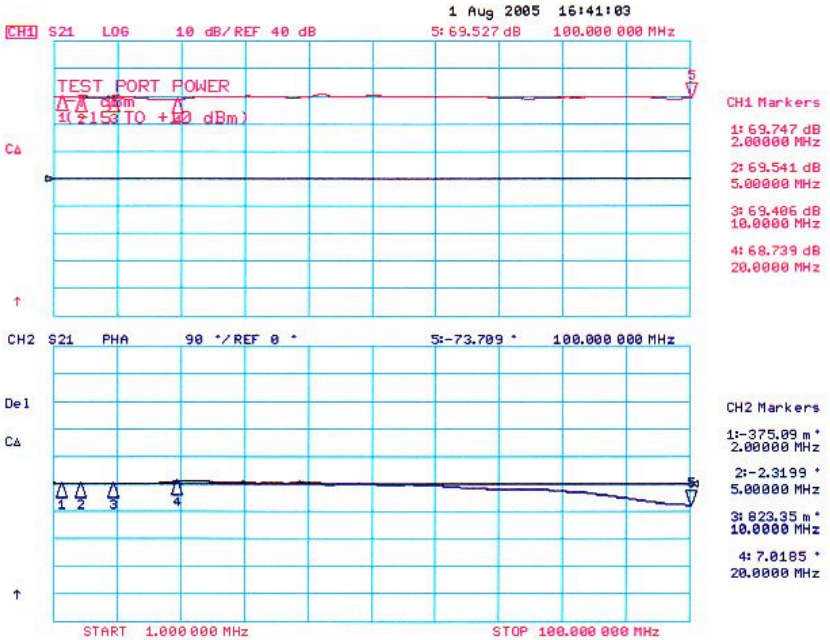
22028

-10dBm
188 V



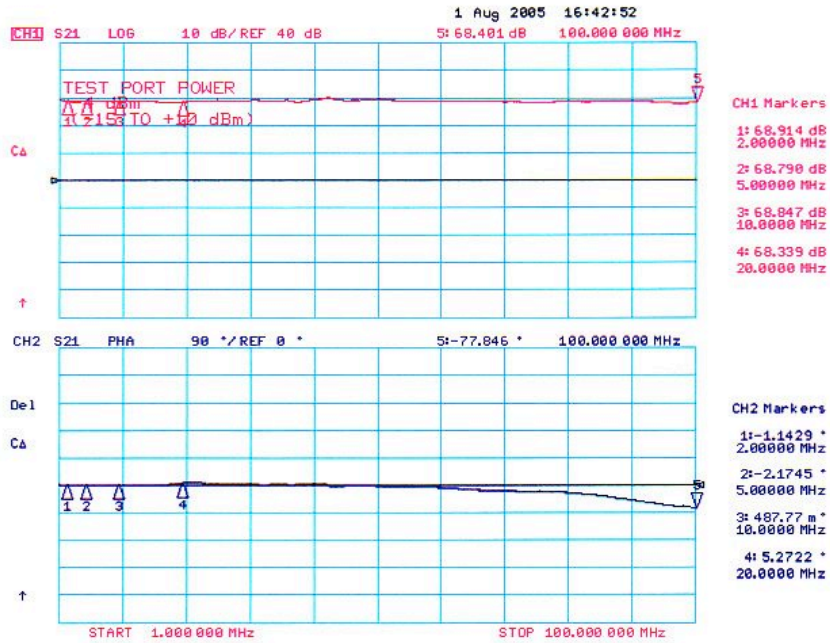
#22028

-7dBm
188V



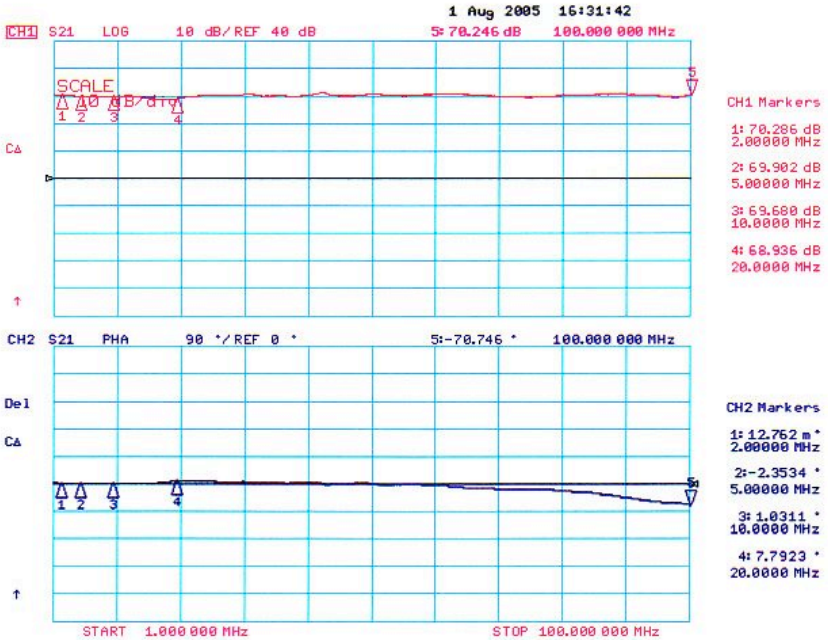
#22028

-4dBm
188V



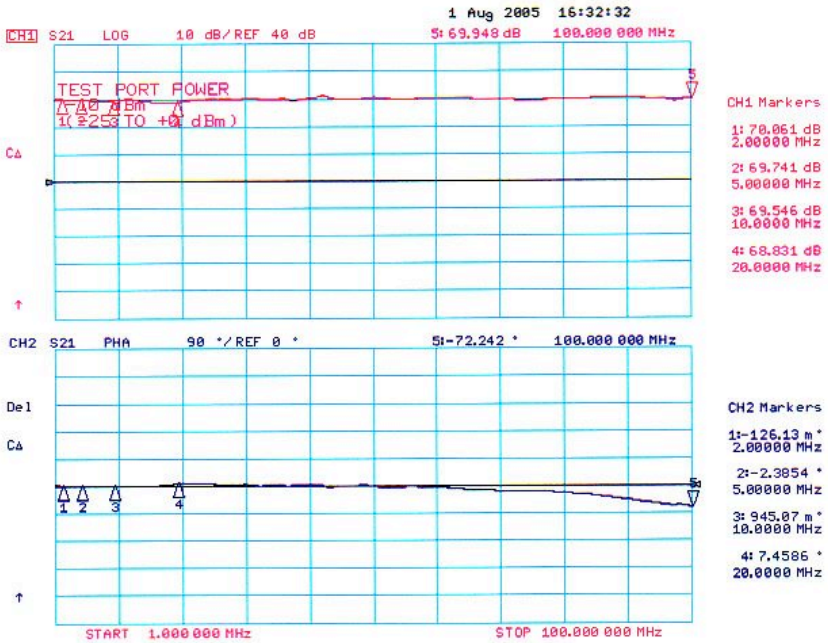
#22028

-20dBm
208V



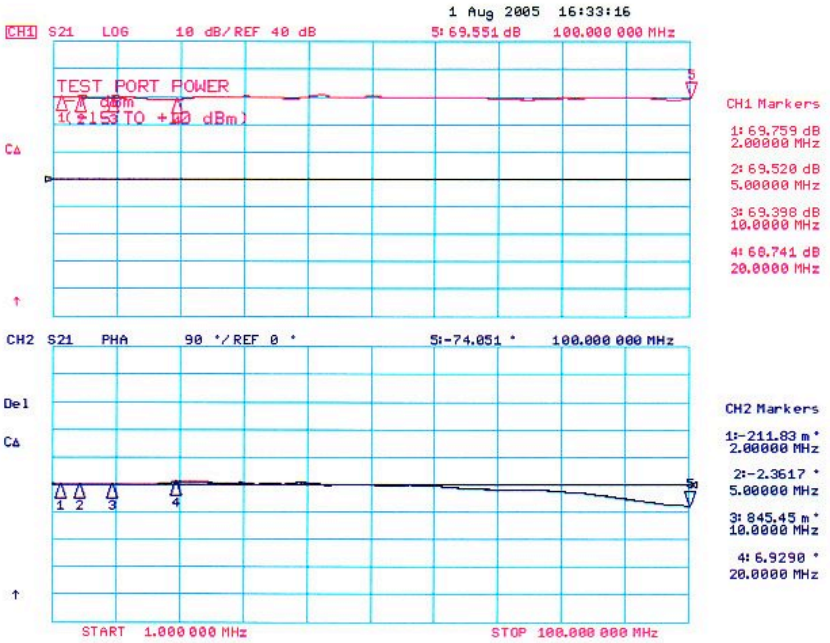
#22028

-10dBm
208V



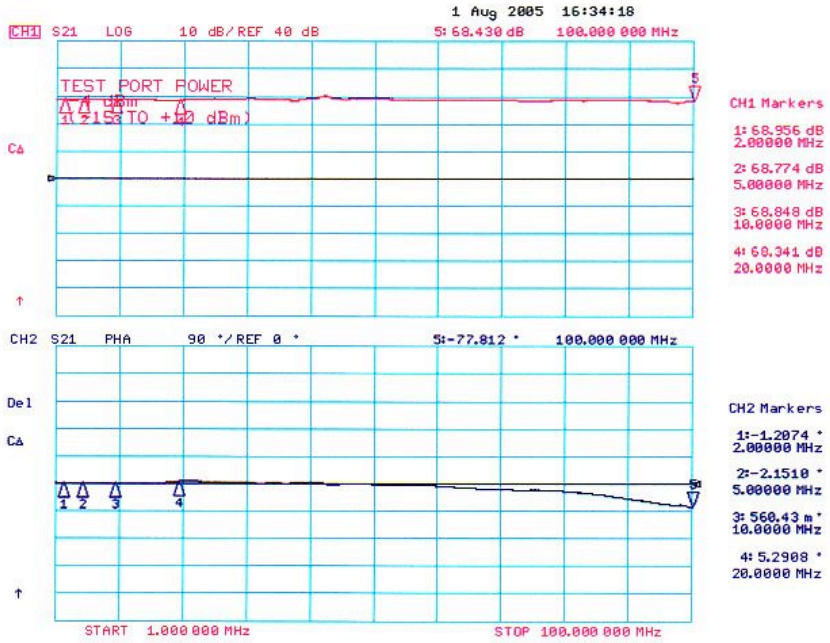
#22028

-7dBm
208V



#22028

-4dBm
208V



FERMILAB
ENGINEERING NOTE

SECTION	PROJECT	SERIAL-CATEGORY	PAGE
		#22028	1

SUBJECT: Gain variation with time/temperature 3500A100

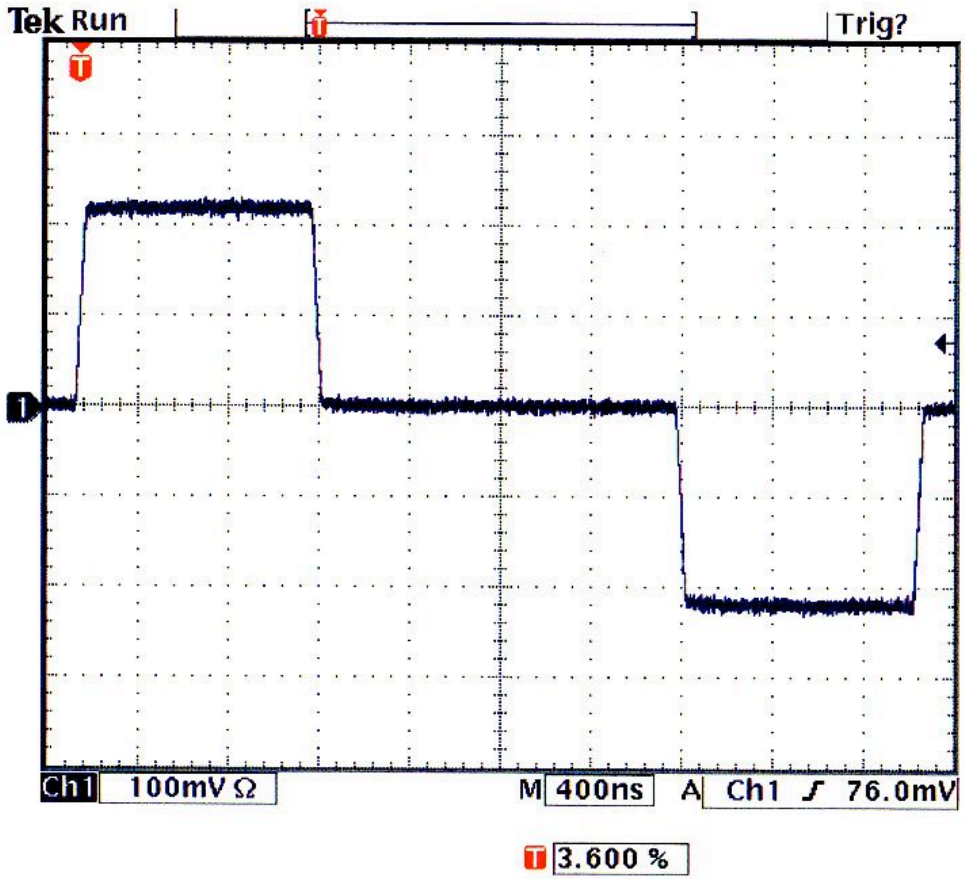
NAME: MCA

DATE: 8-3-05

REVISION DATE:

		Vector Voltmeter	Panel
Start Cold	4:24PM	-22.2dbm	200+ watts
	4:29	-23.4dbm	≈170w.
	4:34	-23.8dbm	149w.
	4:39	-24.1dbm	138w.
	4:44	-24.2dbm	132w.
	4:49	-24.3dbm	129w.
	4:54	-24.3dbm	127w.
	4:59	-24.4dbm	127w.

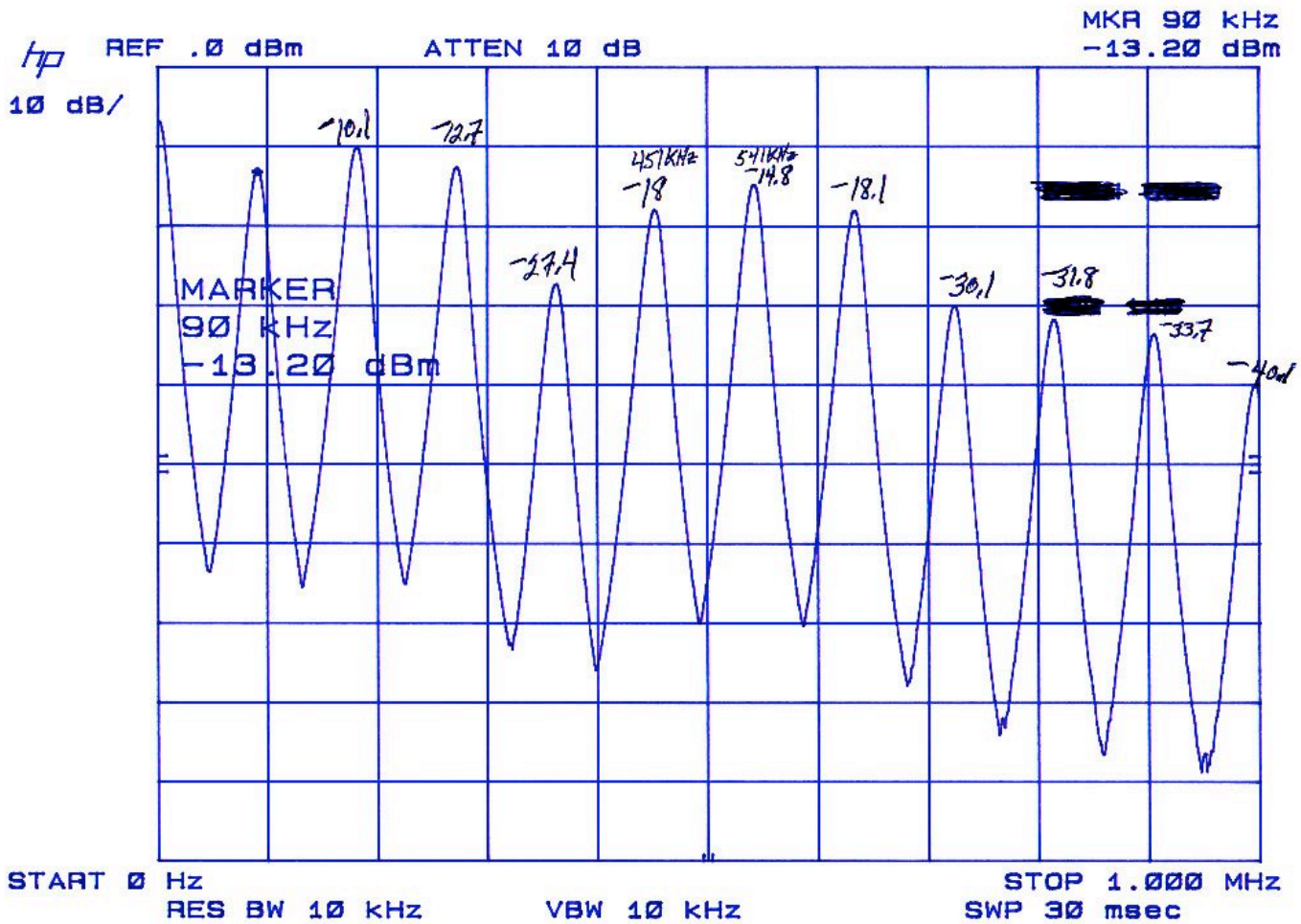
(Signal from Arb. generator 13db pad ahead of scope to give ≈ 400mV P-P)



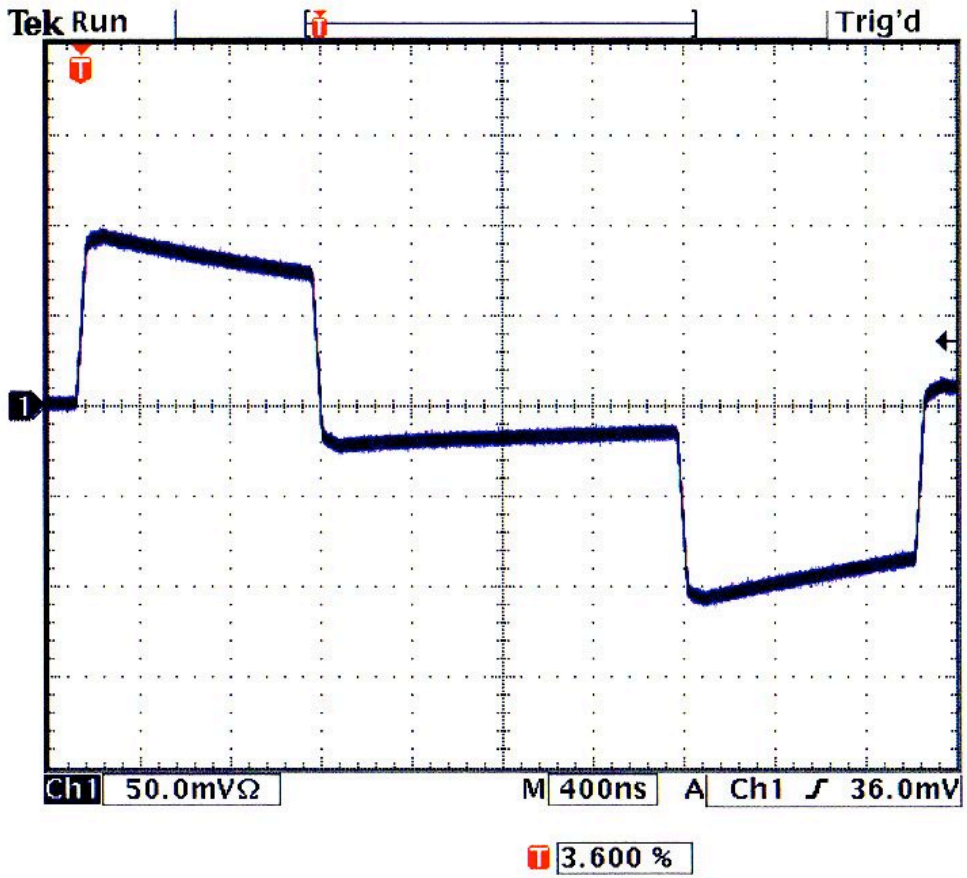
Rep. rate = 89.819 KHz

TDS 3034 4 Aug 2005 16:01:43

Signal from Arb. generator, 10db pad ahead of S.A.



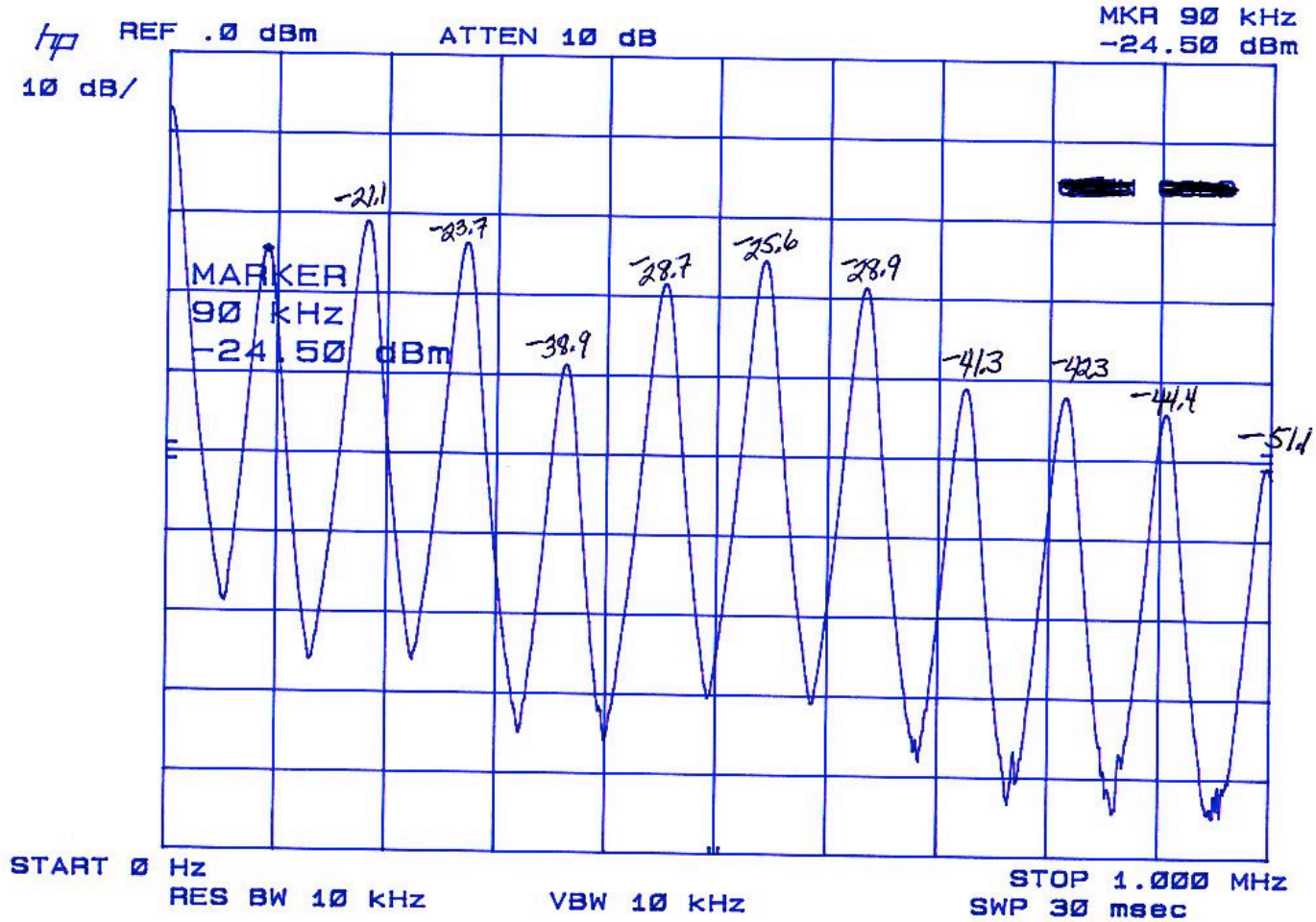
6C16 afteramplifier, Output ≈ 100V Peak Ser. # 22028



4 Aug 2005
16:12:18

TDS 3034 4 Aug 2005 16:12:19

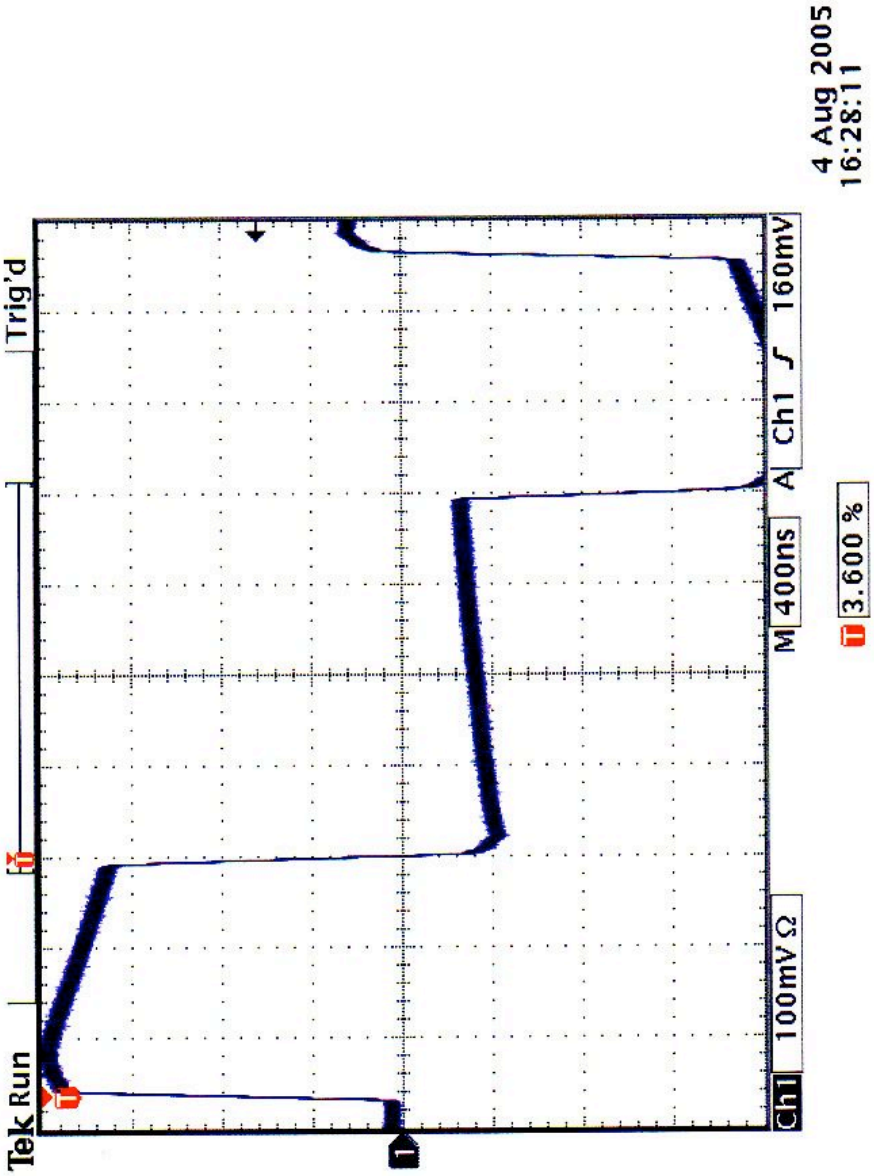
(Output of amp ≈ 100V Peak 60" between amp and S.A. #22028 (



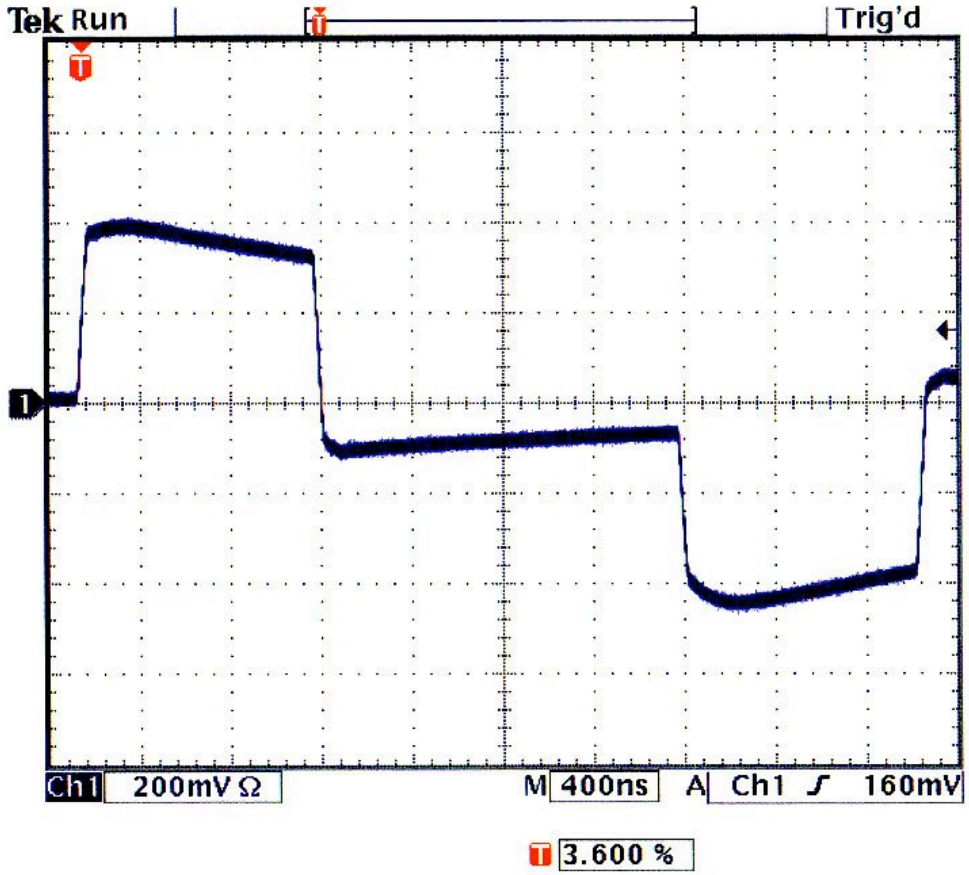
TDS 3034 4 Aug 2005 16:28:11

C input of amp ≈ 400 V_{pk}

#22028



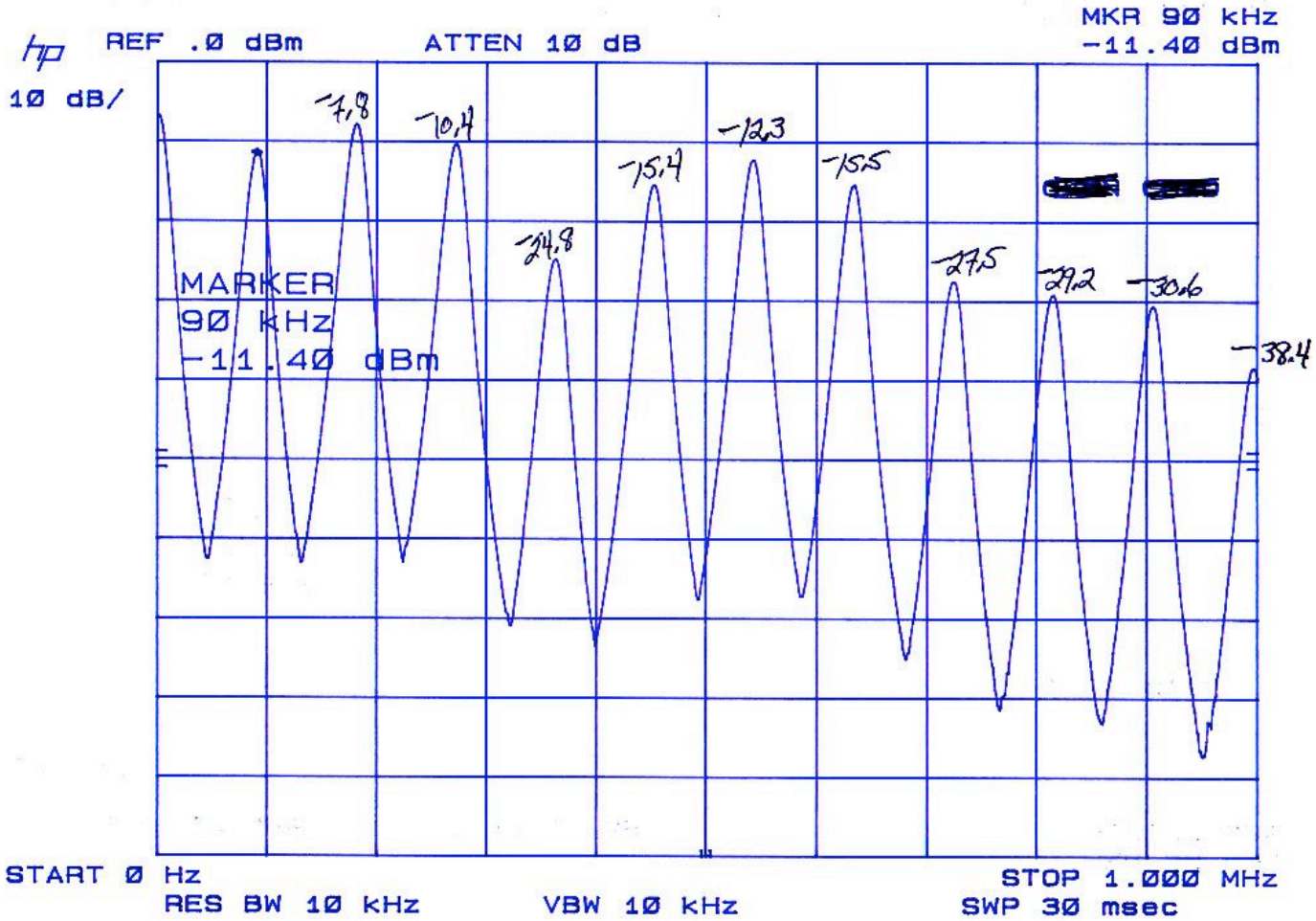
(Output of amp ≈ 400V Pk #22028



4 Aug 2005
16:29:24

Output of amp ≈ 400 VPK.

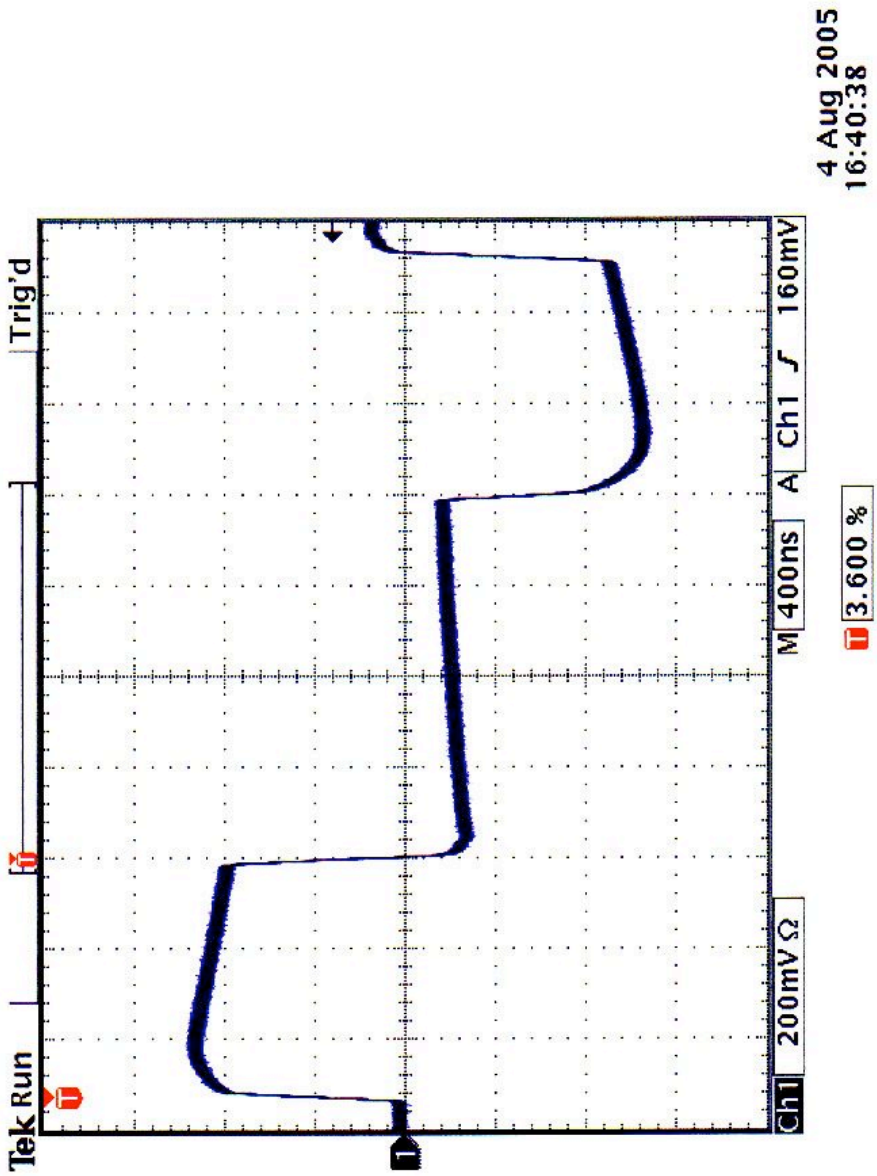
#22028



TDS 3034 4 Aug 2005 16:40:38

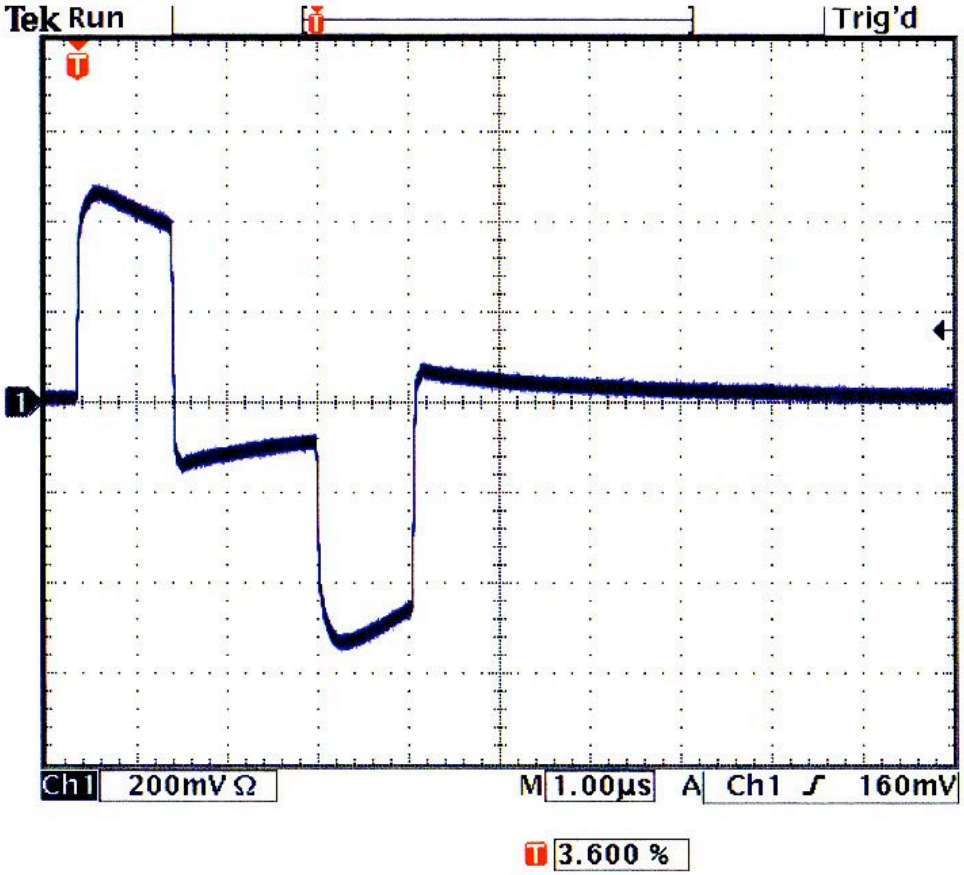
Output ≈ 500VPk.

#22028



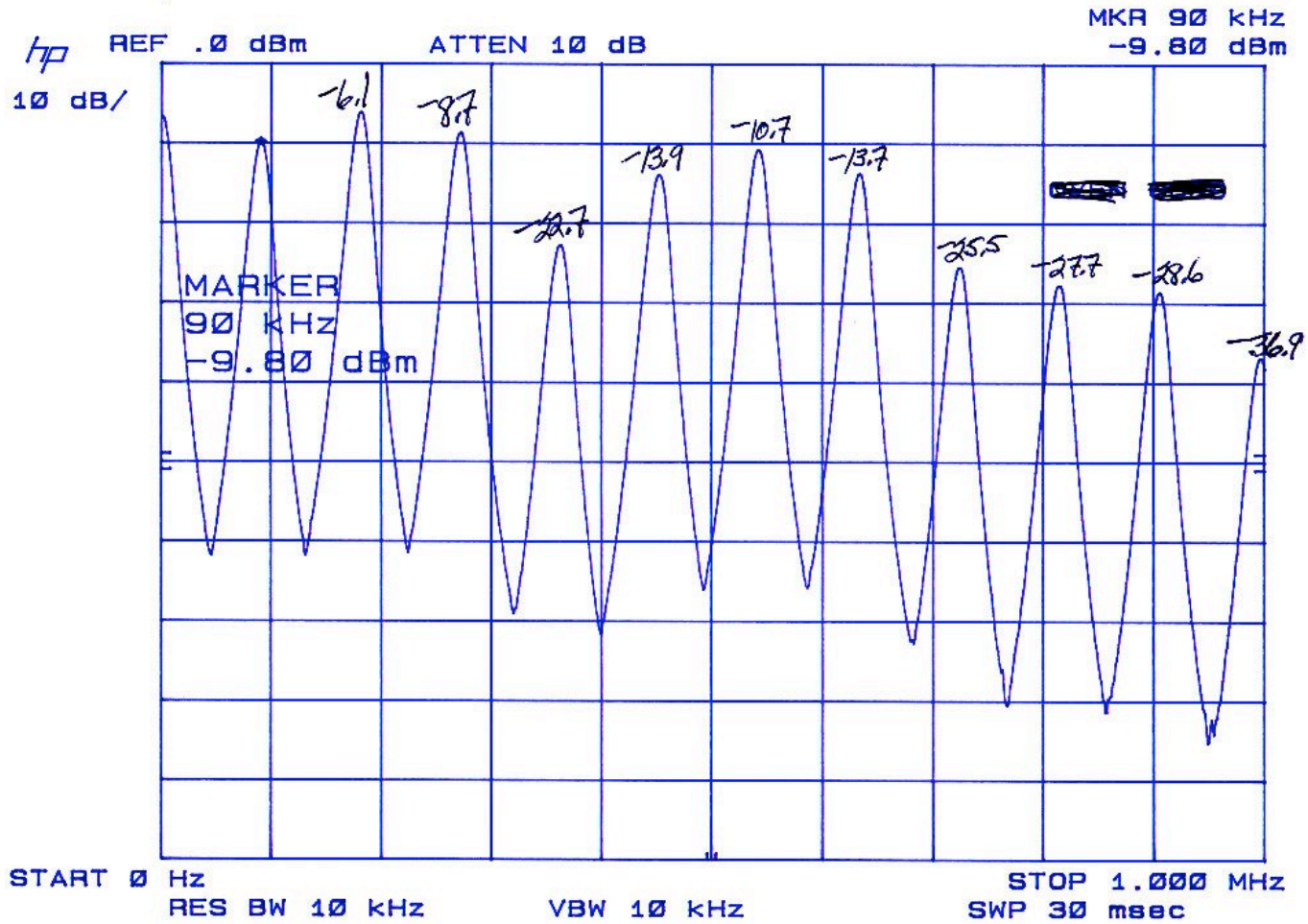
Output ≈ 500V Pk.

#22028



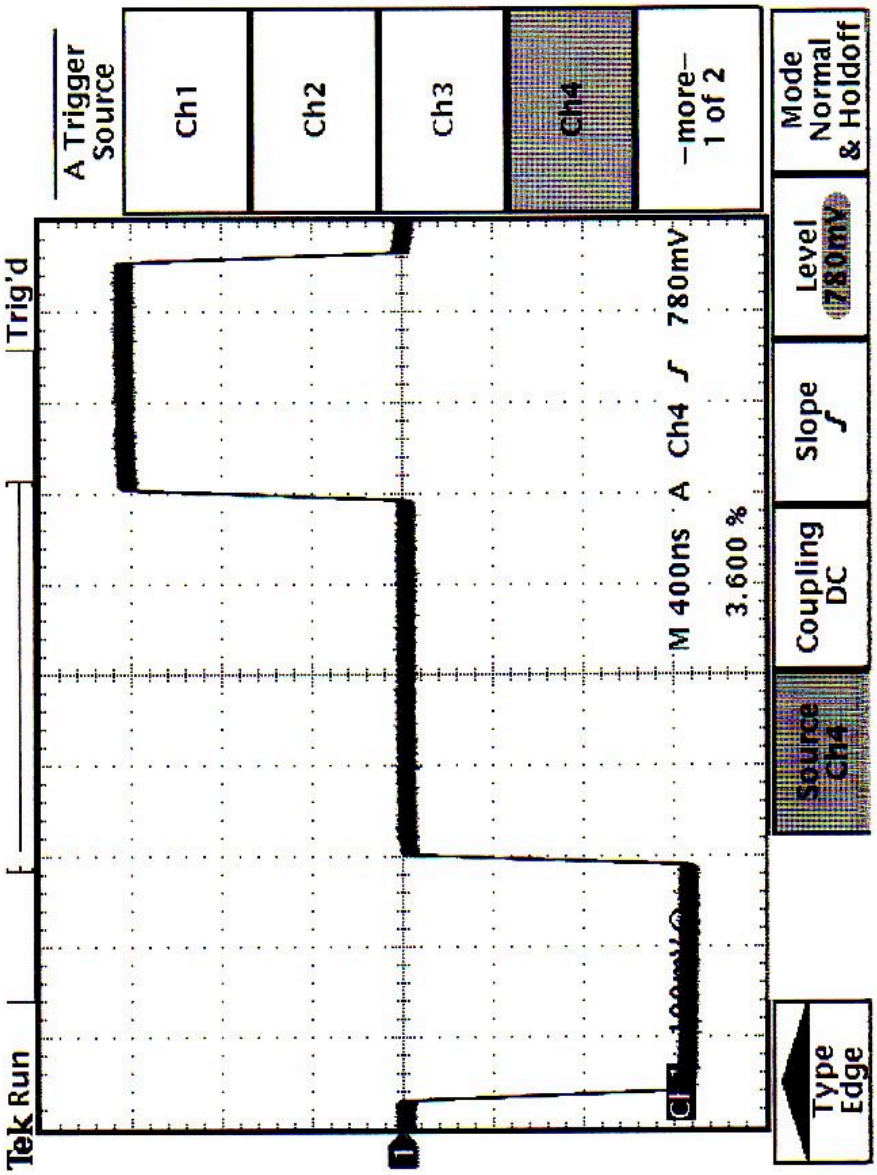
4 Aug 2005
16:41:39

Output ≈ 500V Pk. #22028

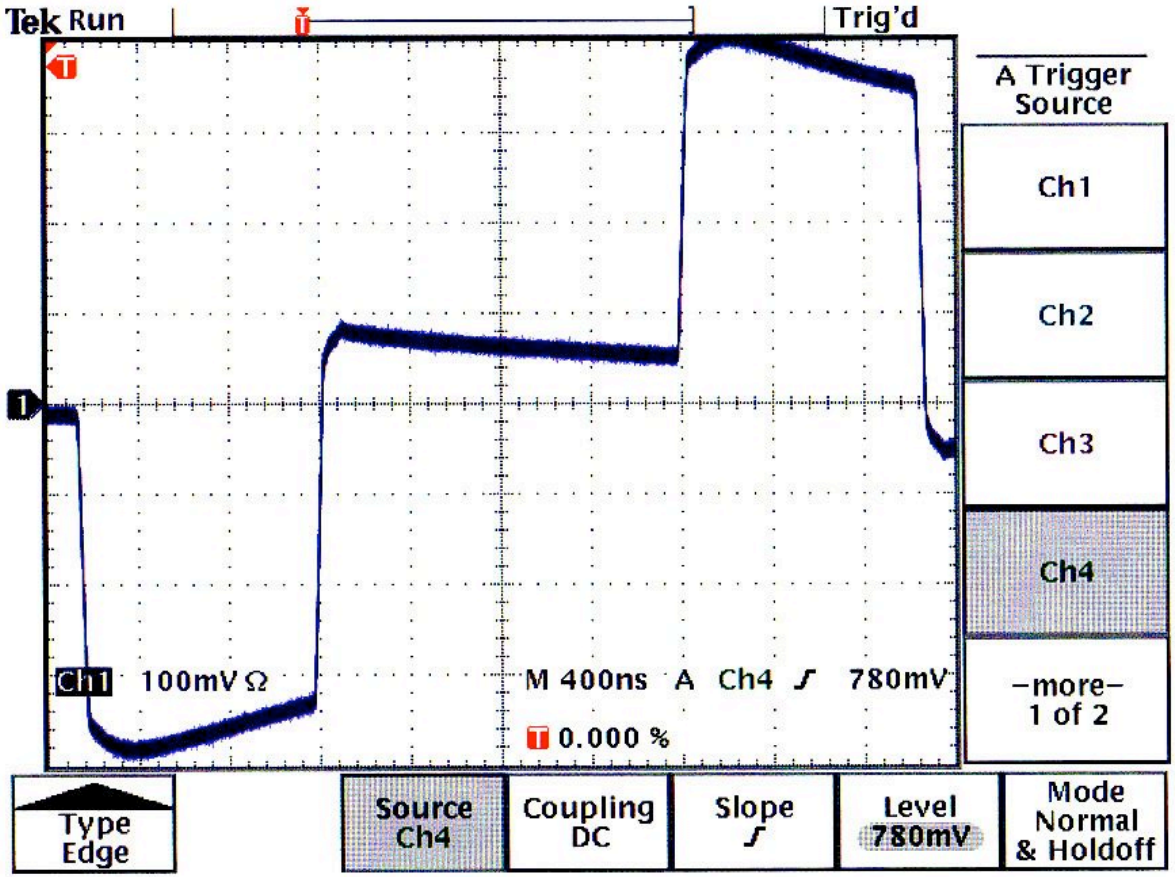


E*1r-3U TDS 3034 5 Aug 2005 11:21:58

Flip polarity of waveform from Arb-generator 8-5-05



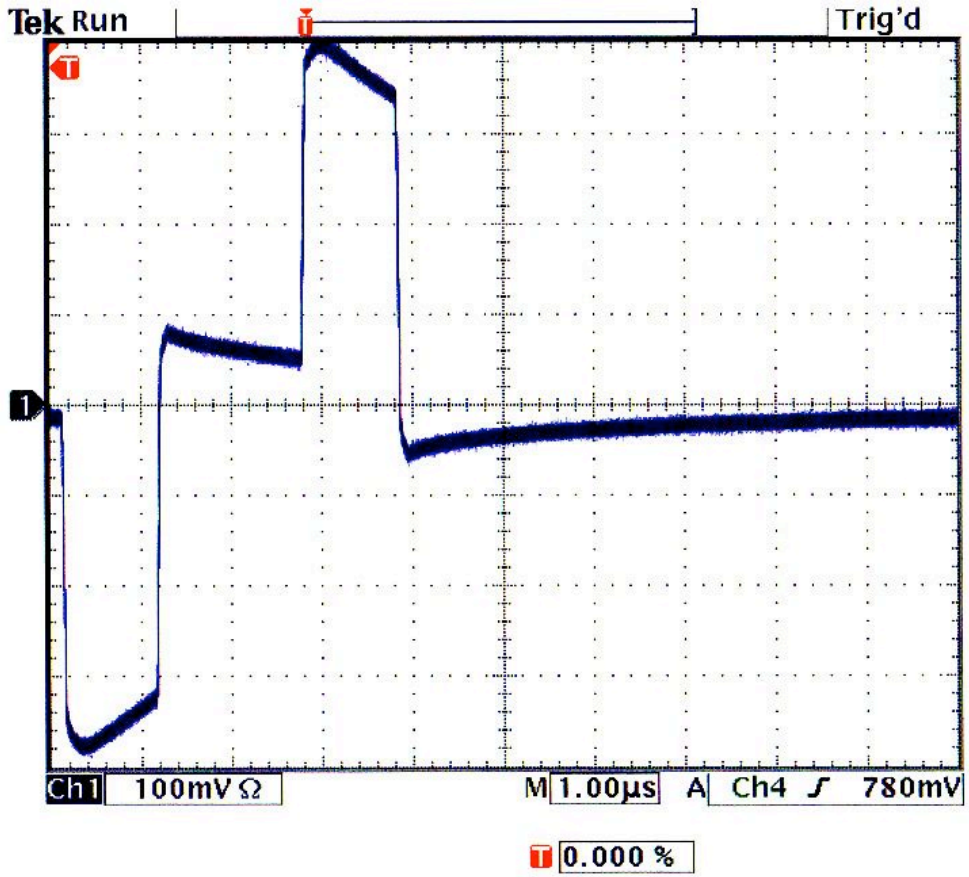
400V Peak (polarity [illegible]) Ser. # 22028



TDS 3034 5 Aug 2005 11:26:21

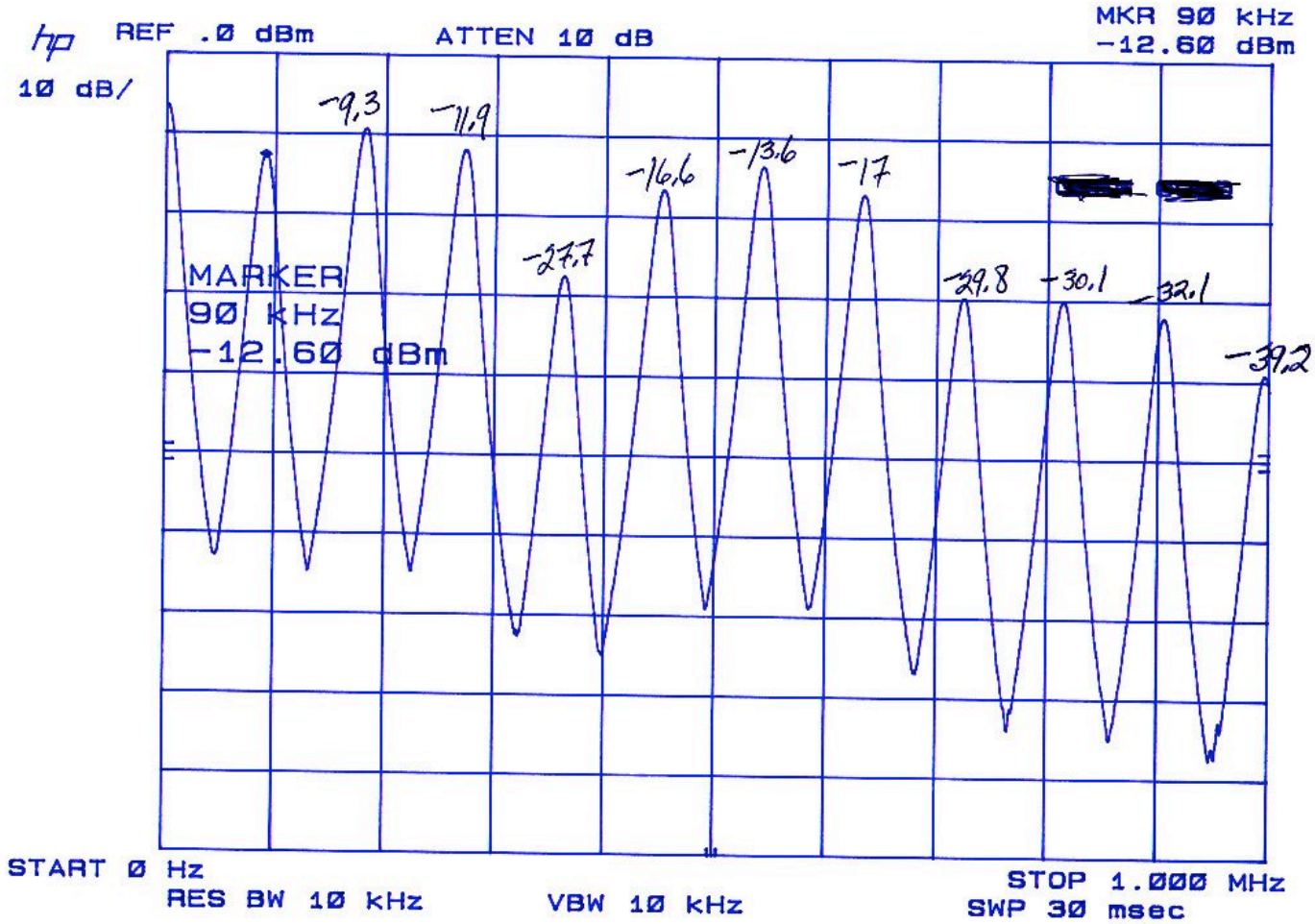
400V Peak (p 'infty flip

#22028



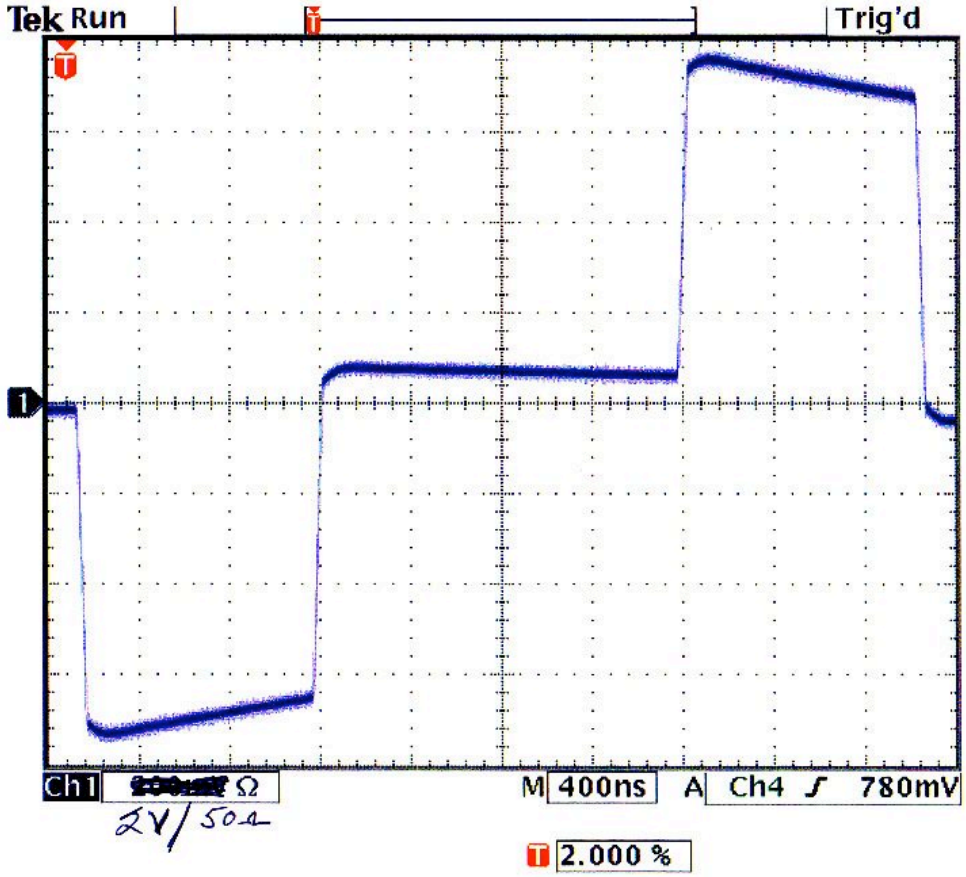
5 Aug 2005
11:27:33

400V Peak (polarity flip) #22028



Output from driver amp at drt level = 400V Peak from total amp

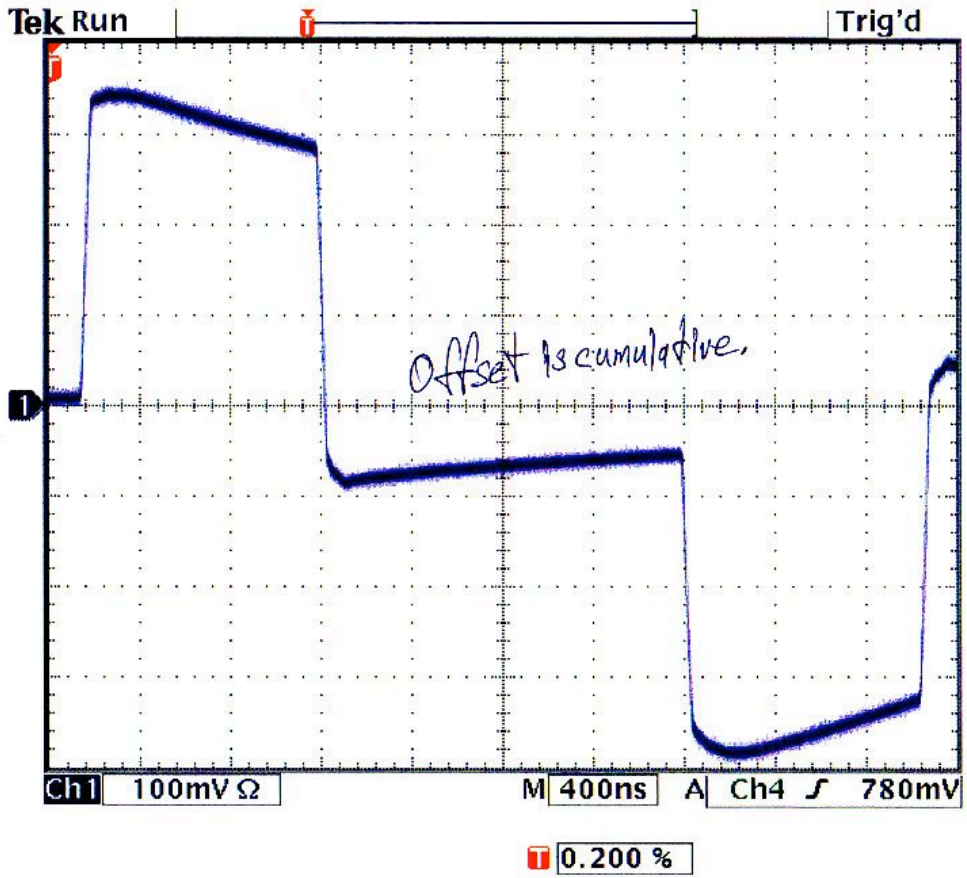
#22028



TDS 3034 5 Aug 2005 16:13:41

Output from total amp with same drive level as Driver waveform.

#22028



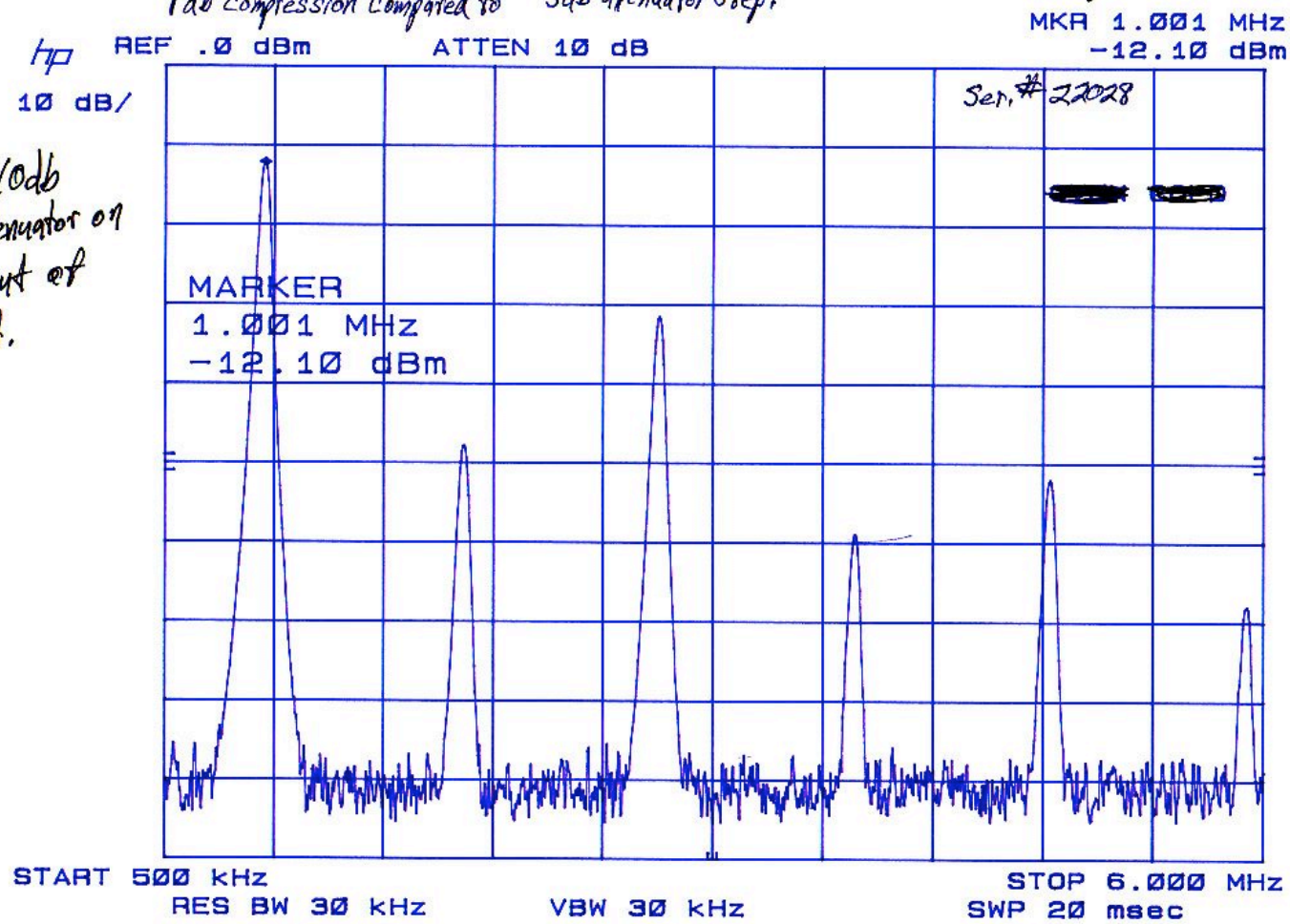
5 Aug 2005
17:01:36

TDS 3034 5 Aug 2005 17:01:36

Reading 3240W on front panel. 0db-attenuator 400mV P-P from H-P8116A

1db compression compared to 3db attenuator step.

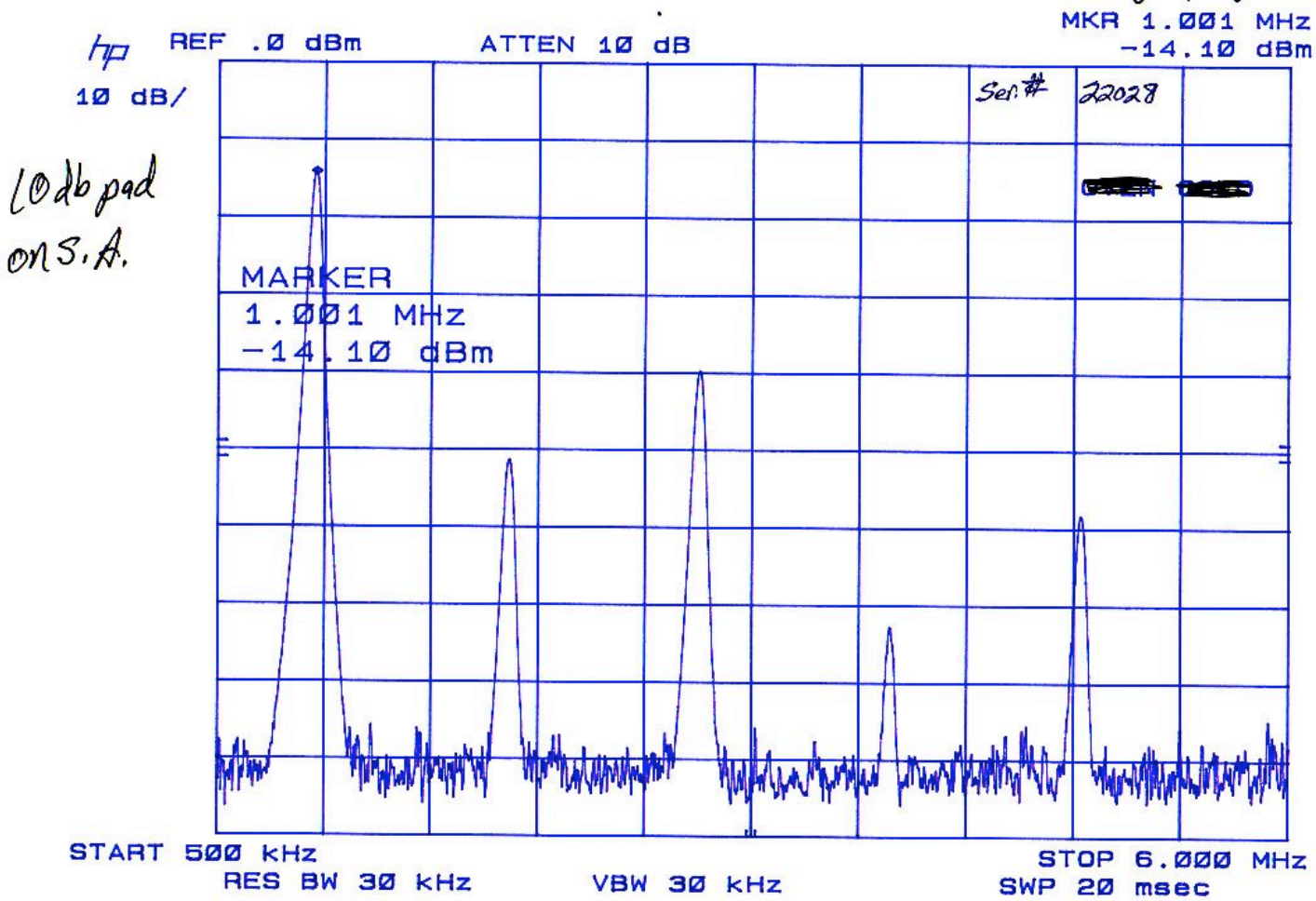
8-2-05



10db attenuator on input of S.A.

Reading 200010 on front panel. 3 db-attenuator

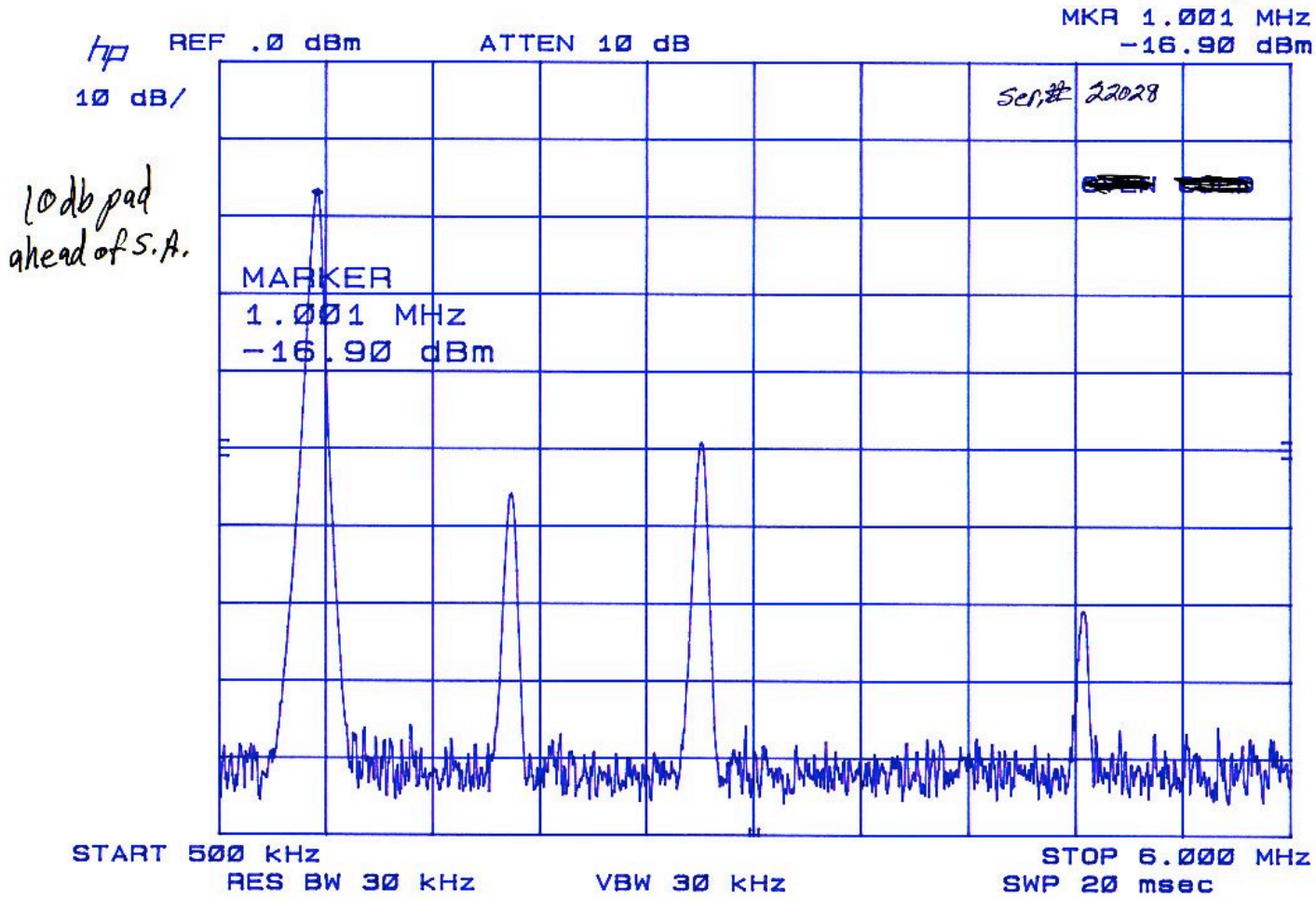
8-2-05



10db pad on S.A.

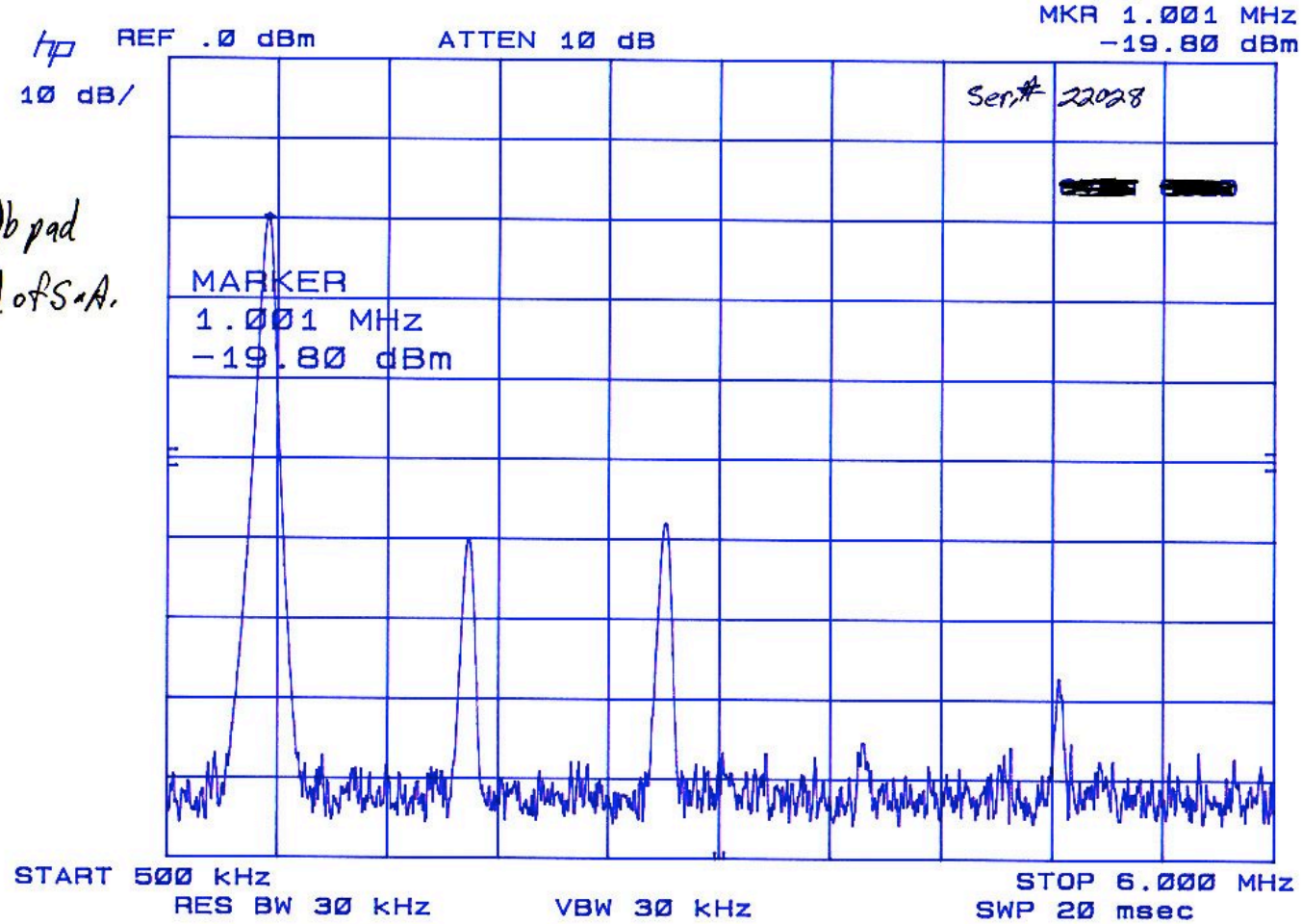
Reading 1220 W on front panel. 6db-attenuator

8-2-05



Reading 642W. on front panel 9db-attenuator

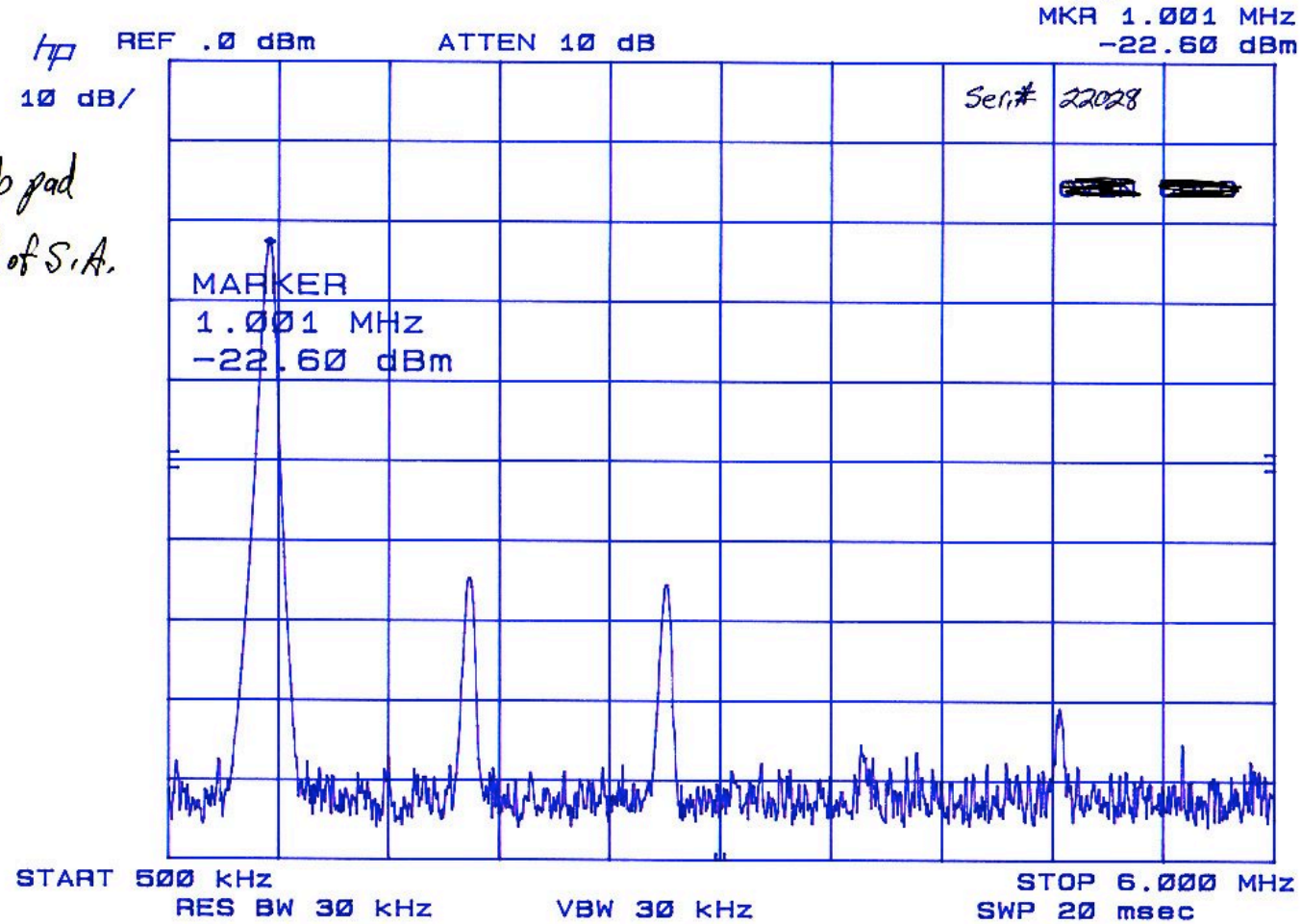
8-2-05



10db pad ahead of S.A.

Reading 296 W. on front panel 12db-attenuator

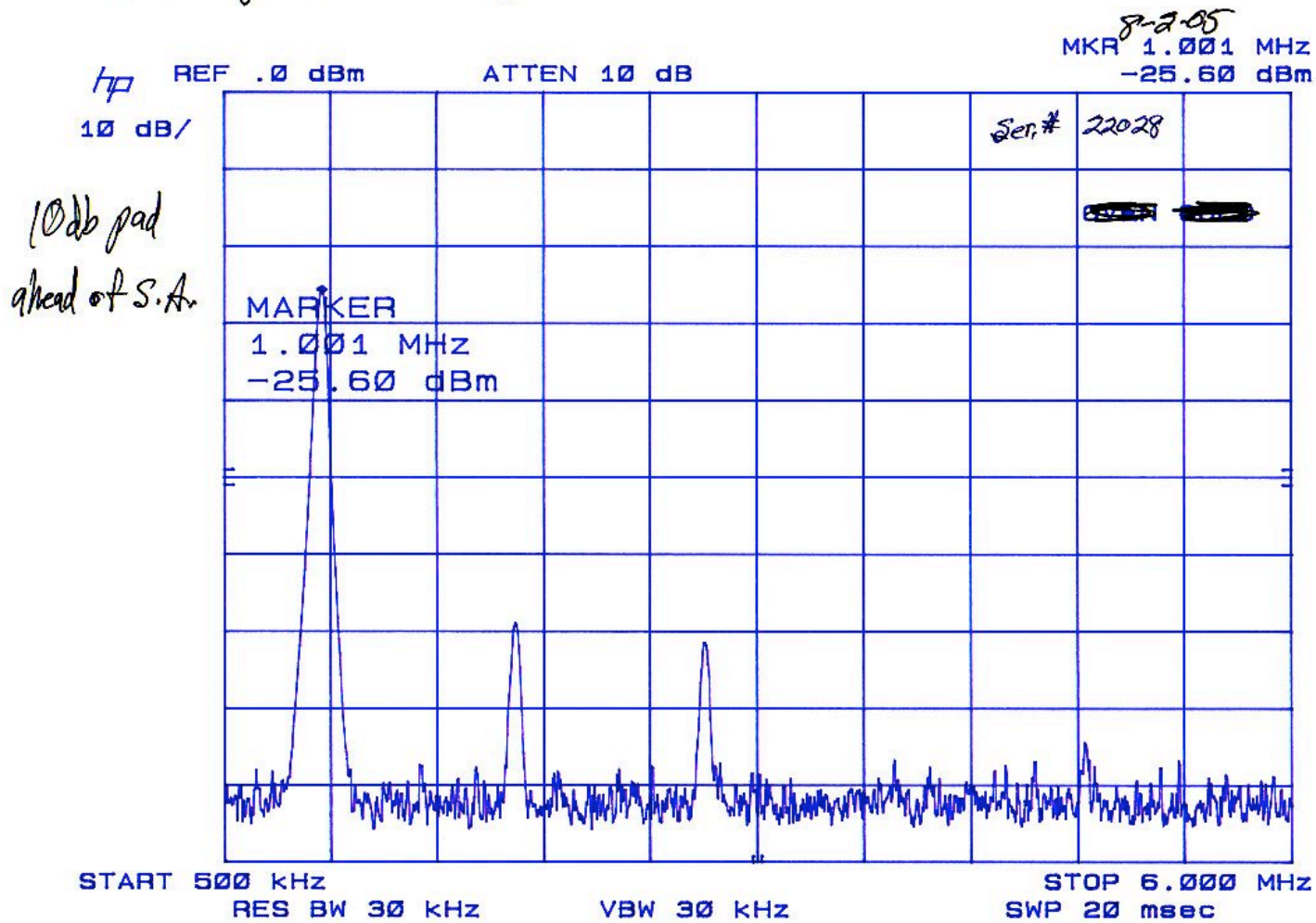
8-2-05



10db pad ahead of S.A.

Reading 114w. on front panel 15db-attenuator

8-2-05



10db pad ahead of S.A.