



**SUMMARY TEST DATA
ON
HADA-D2001**

PL31172/2105-WB

Customer: _____ Tested By: Jerry Wade
SO No: _____ Temperature: +25°C
Model No: HADA-D2001 Date: 1/26/2021
Serial No: PL31172/2105-WB Drawing No: 27620201 Rev: A1

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
11	Frequency Range:	0.5 GHz – 2.0 GHz	0.5 GHz – 2.0 GHz See Plot	PMI QA3
2	TSS:	-44 dBm Min @ -40°C to +85°	-45 dBm See Plot	
3	Frequency Flatness:	±0.75 dB Max	±0.50 dB See Plot	
4	Input / Output Characteristics: (93 Ω)	$Y = 2350 + 50X$ [X: Input (dBm), Y: Output (mv)]	Pass	
5	Logging Accuracy	±1.5 dB Max (@ +25°C, 1.0 GHz)* [-40 dBm ≤ INPUT ≤ 0 dBm] ±2.2 dB Max (Note)	+1.32 / 0.74 dB (Room Temp) +1.56 / -1.06 dB (Over Temp) See Plot	
6	Log Linearity:	±0.5 dB Max @ +25°C ±0.75 dB Max @ -40°C to +85°C	+0.21 / -0.30 dB (Room Temp) +0.43 / -0.42 dB (Over Temp) See Plot	
7	Maximum Input Power (CW):	+23 dBm	Pass	PMI QA3



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8	Duty Cycle:	100%	Pass	PMI QA3
9	Rise Time:	30 ns Max (10% to 90%)	18.4 ns See Plot	
10	Fall Time:	500 ns Max (@ Pulse width 100usec input) (90% to 10%)	164 ns See Plot	
11	DC Offset: (Input 50 Ω terminated):	+95 mV +55 / -100 mV (@ -40°C to +85°C)	+103 mV +52 mV	
12	Input VSWR:	2.5:1 Max @ +23 dBm	1.33:1 See Plot	
13	Propagation Delay:	60 ns Max	40 ns See Plot	
14	Power Supply:	+12 \pm 1VDC @ 125 mA Max -12 \pm 1VDC @ 75 mA Max	84 mA 41 mA	
15	Warm Up Time:	2 Minutes Max	2 Minutes	PMI QA3

*Notes: Includes Frequency Flatness. Input Power, Temperature Deviation and Deviation for DC Offset. The test shall be performed using RG-316 (or equivalent), 20cm, 93 \pm 0.5 Ohms terminated.

QA/QC Approval:

Arthur Zimmerman

Date:

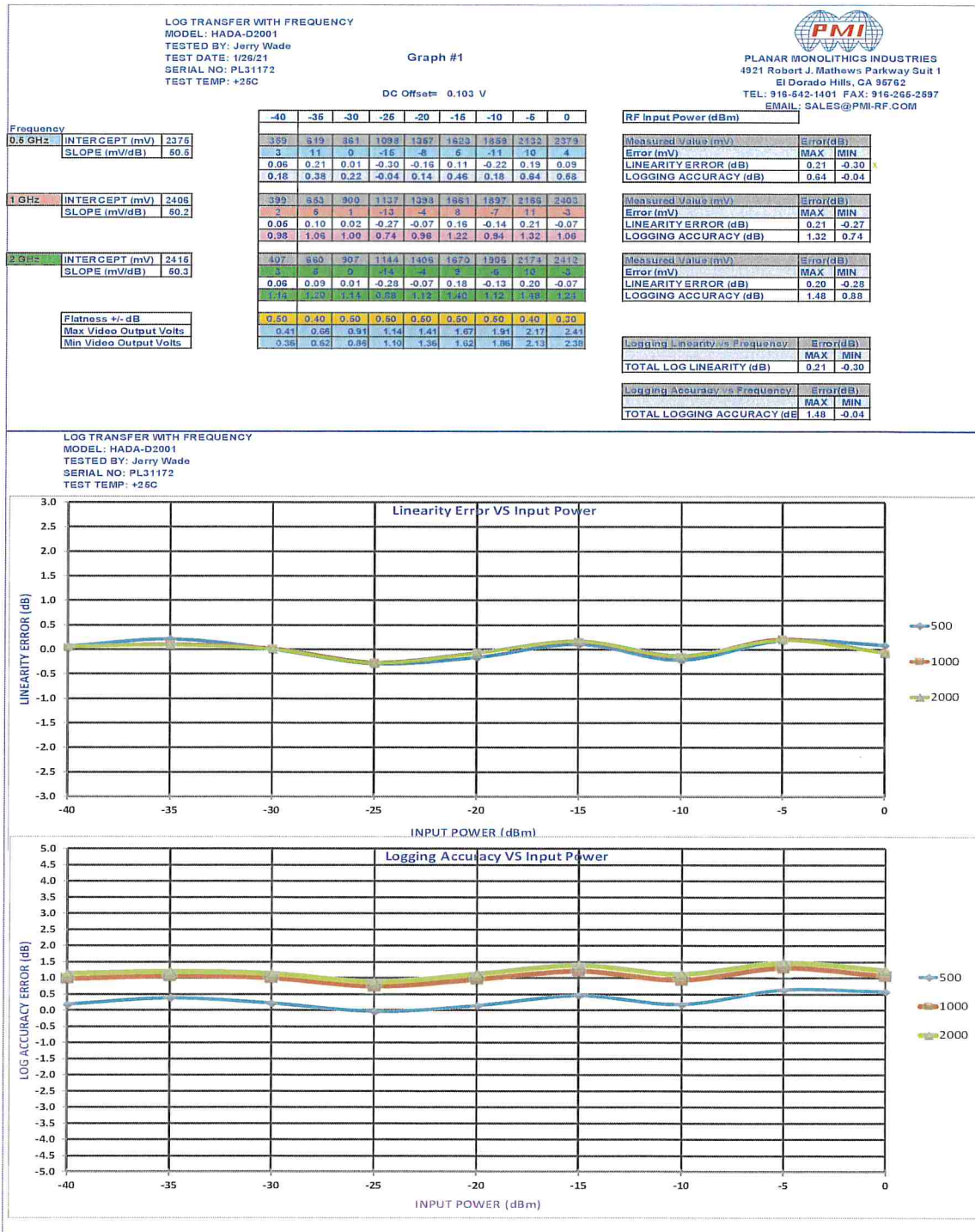
2-10-2021

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LOG TRANSFER WITH FREQUENCY
MODEL: HADA-D2001
TESTED BY: Jerry Wade
TEST DATE: 1/25/21
SERIAL NO: PL31172
TEST TEMP: -40C

DC Offset= 0.052 V

Flatness +/- dB
Max Video Output Volts
Min Video Output Volts

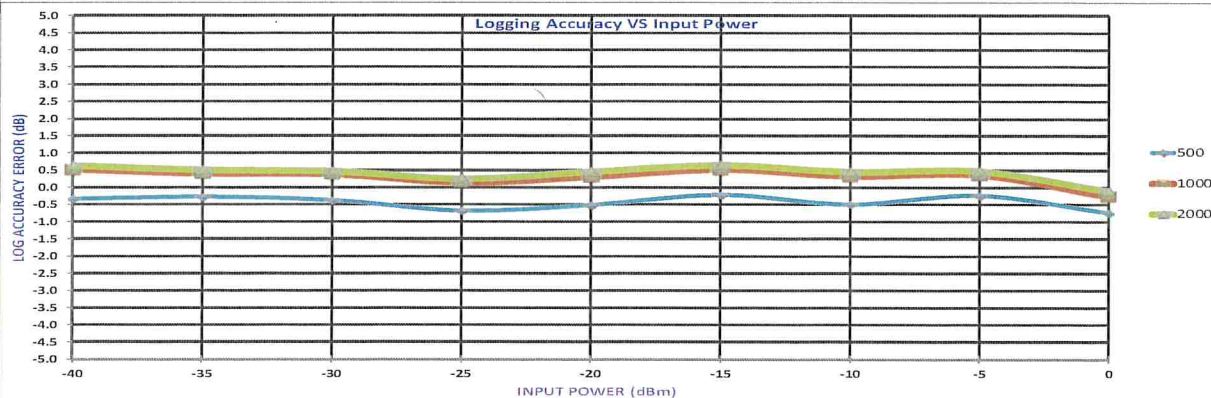
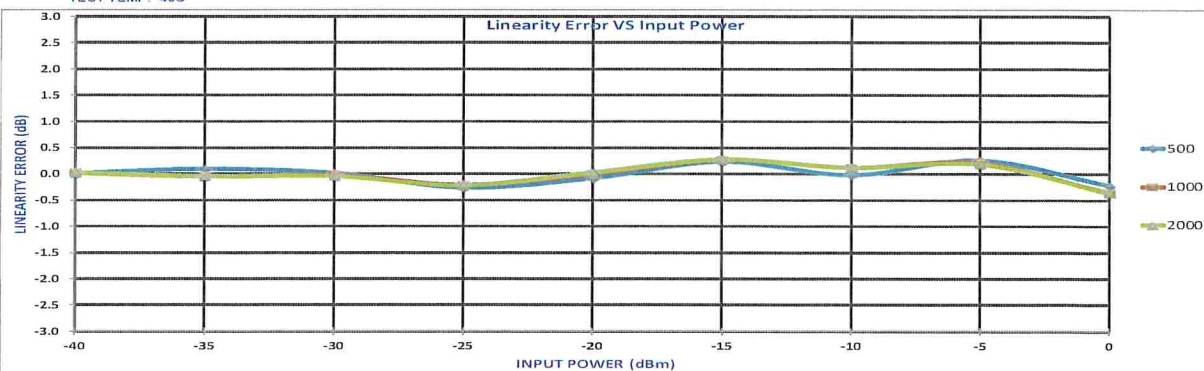
	-40	-35	-30	-25	-20	-15	-10	-5	0
323	586	821	1058	1324	1589	1825	2048	2313	
0	6	11	13	4	12	15	13	-11	
0.61	0.09	0.01	-0.67	0.03	0.24	0.23	0.36	-0.52	
-0.34	-0.29	-0.38	-0.68	-0.52	-0.22	-0.60	-0.24	-0.74	
375	620	850	1107	1365	1625	1888	2119	2337	
0.02	0.05	0.02	-0.11	0.07	0.03	0.24	0.32	0.36	-0.52
0.52	0.40	0.39	0.14	0.30	0.52	0.32	0.36	-0.28	
382	626	874	1113	1373	1633	1873	2124	2345	
0.03	-0.05	-0.04	-0.22	0.03	0.28	0.12	0.19	0.35	
0.54	0.52	0.48	0.28	0.45	0.65	0.44	0.53	-0.38	
0.50	0.40	0.40	0.50	0.50	0.40	0.50	0.40	0.30	
0.39	0.63	0.87	1.11	1.37	1.63	1.89	2.12	2.30	
0.39	0.89								

Measured Value (mV)	Error(dB)	
Error (mV)	MAX	MIN
LINEARITY ERROR (dB)	0.28	-0.35
LOGGING ACCURACY (dB)	0.66	-0.10

Logging Linearity vs Frequency	Error(dB)	
	MAX	MIN
TOTAL LOG LINEARITY (dB)	0.28	-0.36

Logging Accuracy vs Frequency	Error(dB)	
	MAX	MIN
TOTAL LOGGING ACCURACY (dB)	0.66	-0.74

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TESTED BY: Jerry Wade
SERIAL NO: PL31172
TEST TEMP: -40C

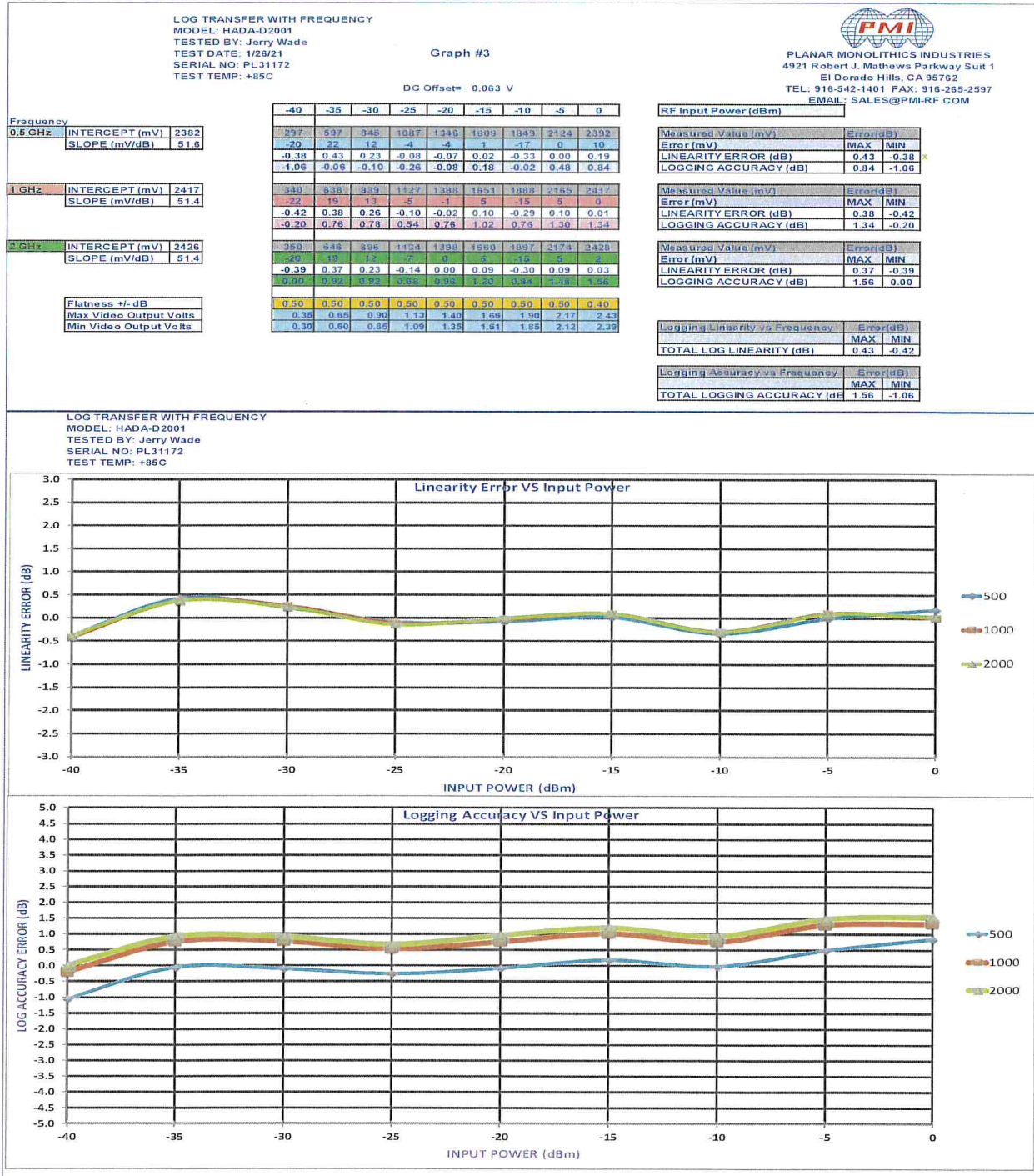


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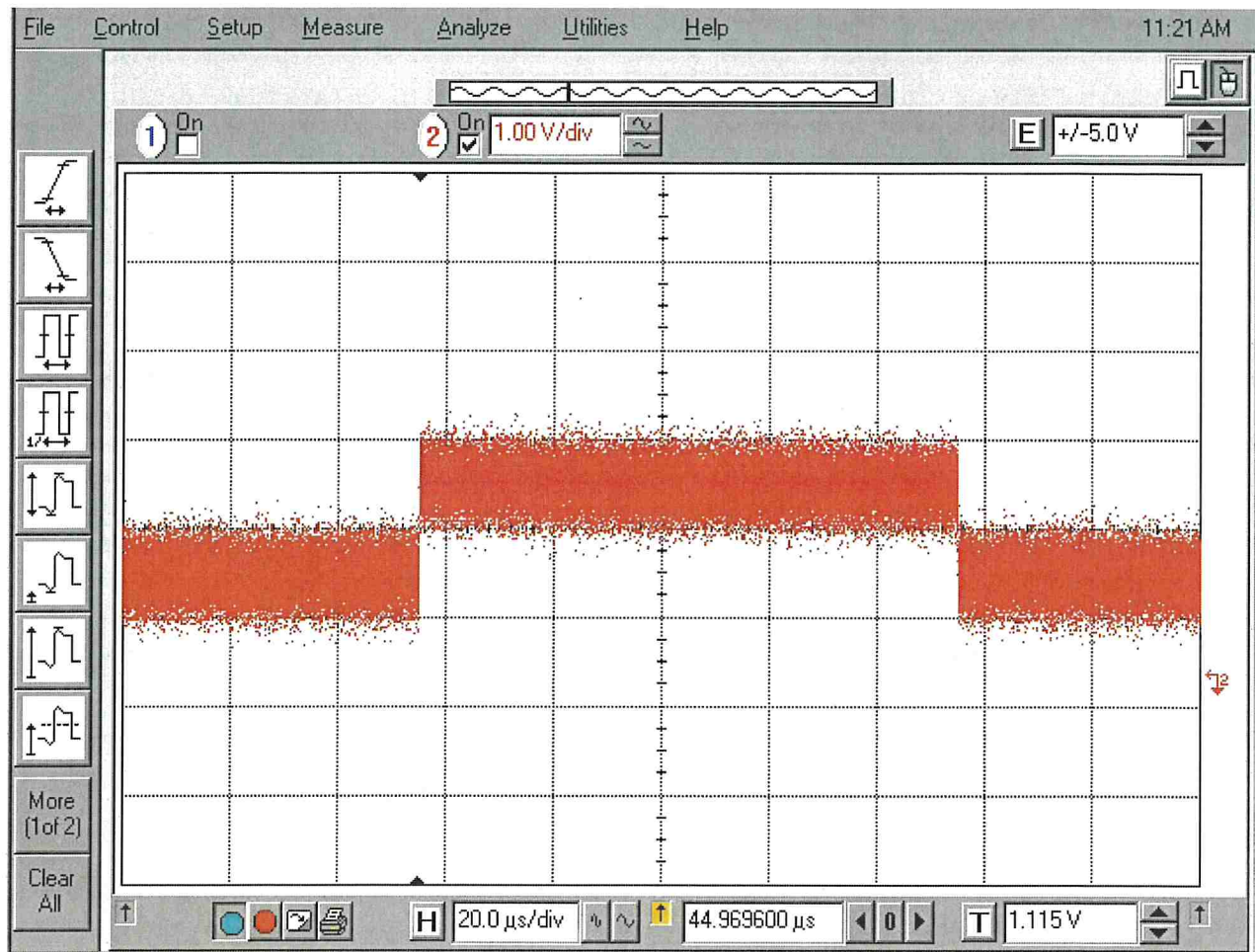




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TSS @ -45 dBm

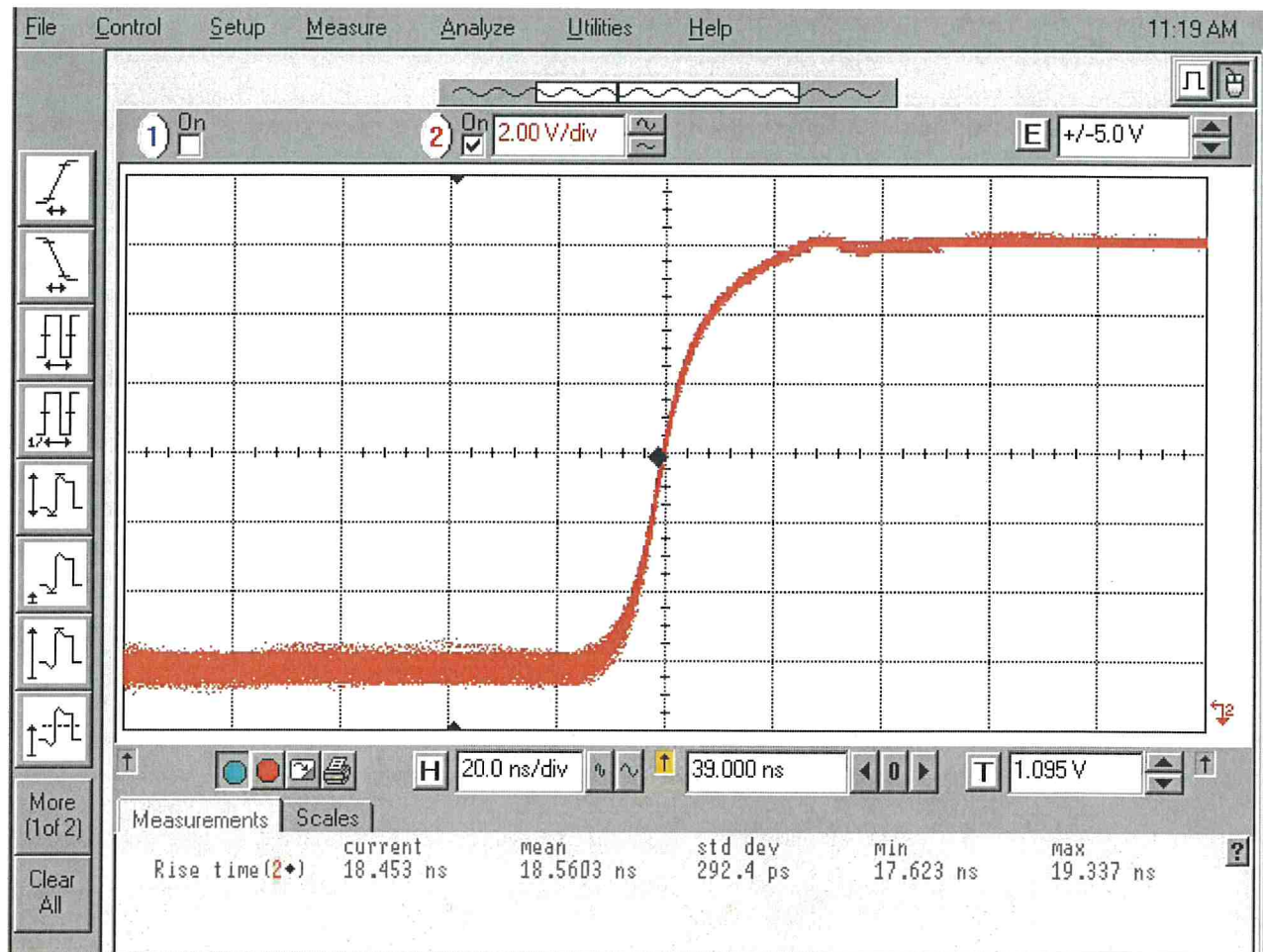




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Rise Time @ 18.4 ns

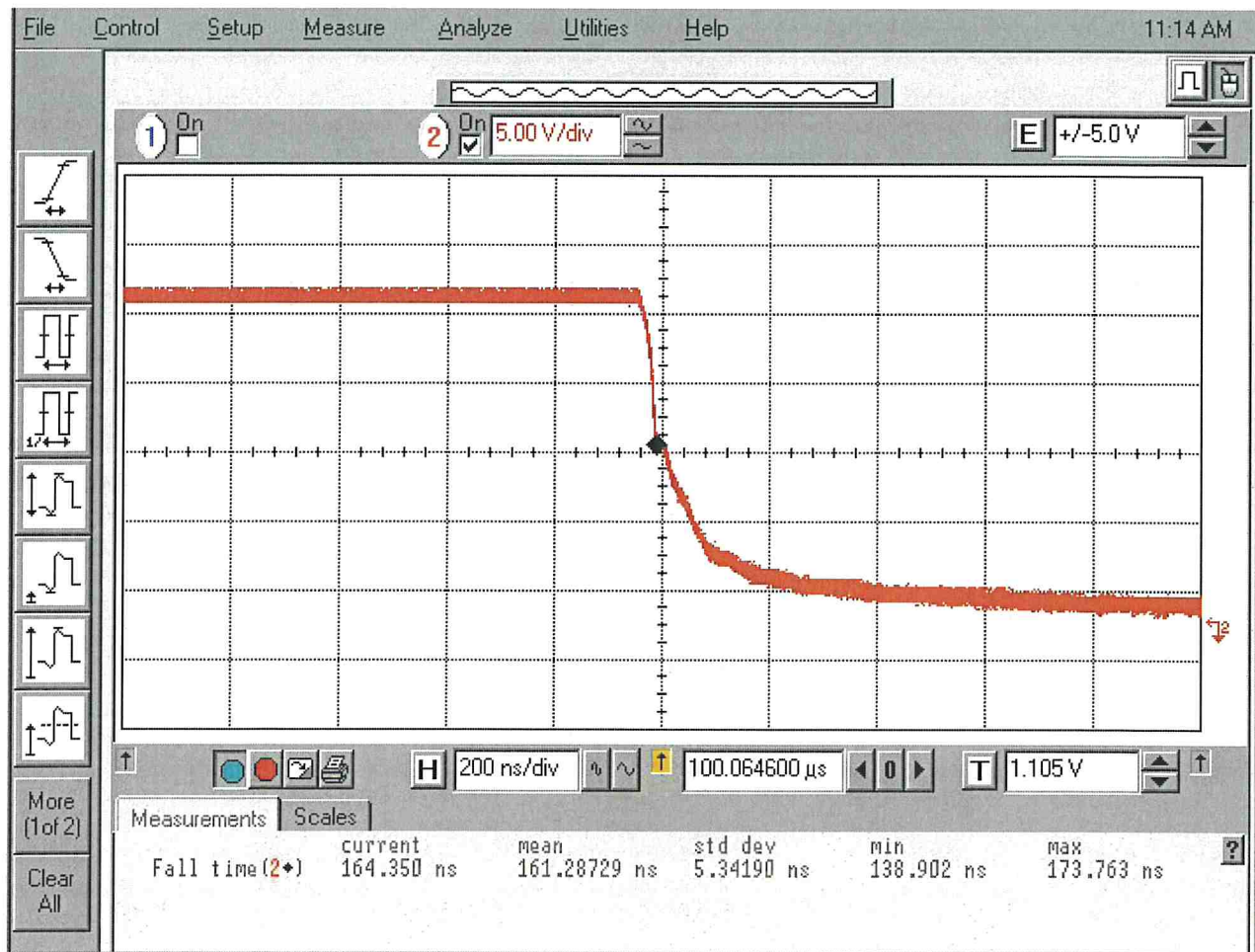




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Fall Time @ 164 ns





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VSWR @ 1.33:1

