



**Summary Data**  
**For**  
**ERDLVA-2G18G-65-70MV-70C**

Customer: \_\_\_\_\_ Tested By: Jim Hopson  
 SO No: \_\_\_\_\_ Temperature: -40C TO +70C  
 Model No: ERDLVA-2G18G-65-70MV-70C Date 8/8/2024  
 Serial No: PL40510/2322 Drawing No: 27642020 Rev: A1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	2 to 18 GHz	2 to 18 GHz	PMI QA3
2	VSWR:	2.2:1 MAX @ 50 Ω	2.17:1 MAX	
3	Input Power:	(1) 1 W CW, Max. (2) 100 W Peak @ PW = 1 us & Duty Cycle = 1%, Max.	Pass	
4	VIDEO OUT TSS:	-71 dBm MAX	-71 dBm	
5	VIDEO OUT Dynamic Range:	-65 to 0 dBm	-65 to 0 dBm	
6	VIDEO OUT Log Slope Fixed:	70 ± 3mV/dB	72.4/69.0 mv/db	
7	VIDEO OUT Log Linearity:	±1.0 dB MAX @25C	.68/- .69 db	
8	VIDEO OUT Log Accuracy:	±2.3 dB MAX @25C	1.23/-1.14 db	
9	VIDEO OUT Absolute Log Accuracy:	±2.9 dB MAX Over Freq & temp	±1.48 dB MAX Over Freq & temp	
10	VIDEO OUT DC Offset:	0 ±70 mV (RF Input Terminated & DC Power On) @25C	36 mV	
11	VIDEO OUT Rise Time (10% to 90%):	28 ns MAX	26.8 ns	
12	VIDEO OUT Fall Time (90% to 10%):	300 ns MAX	124.7 ns	
13	VIDEO OUT Settling Time:	50 ns With in ±70 mV of final value @-10 dBm	< 50ns	



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14	VIDEO OUT Recovery Time:	1 us MAX to within 1 dB of baseline for PW <10us & Power = -10dBm	< 1us	PMI QA3
15	VIDEO OUT Video Frequency Flatness:	±2.0 dB MAX @25C	±1.12 dB MAX @25C	
16	VIDEO OUT CW Immunity:	CW Immune Power TSS to -40 dBm	Pass	
		Pulse Peak Amplitude Loss; 2 dB MAX @ -40dBm CW	<2dB	
		Baseline shift 200mV @-40dBm CW	< 200mV	
		CW Immunity Time at CW = -40 dBm, ≤ 4 ms	1.3 ms	
		CW Recovery Time at CW = -40 dBm, ≤ 20 us	<20 us	
17	Pulse droop	1dB Max for 300us pulse at or above -65dBm	<1dB	
18	VIDEO OUT Pulse Response, input Signal:	100 ns to 300 us	100 ns to 300 us	
19	VIDEO LOAD Impedance:	75 ±1 Ω	75Ω	
20	VIDEO driver capability	100 ft RG11 into 75 ohm load	Pass	
21	Pulse density capability	10% duty cycle 100 ns, 70% duty cycle 300 us at peak power -10 dBm with 1 dB variable for pulse amplitude and baseline	Pass	
22	VIDEO OUT Noise Level (Vp-p):	160 mV max	153 mV	



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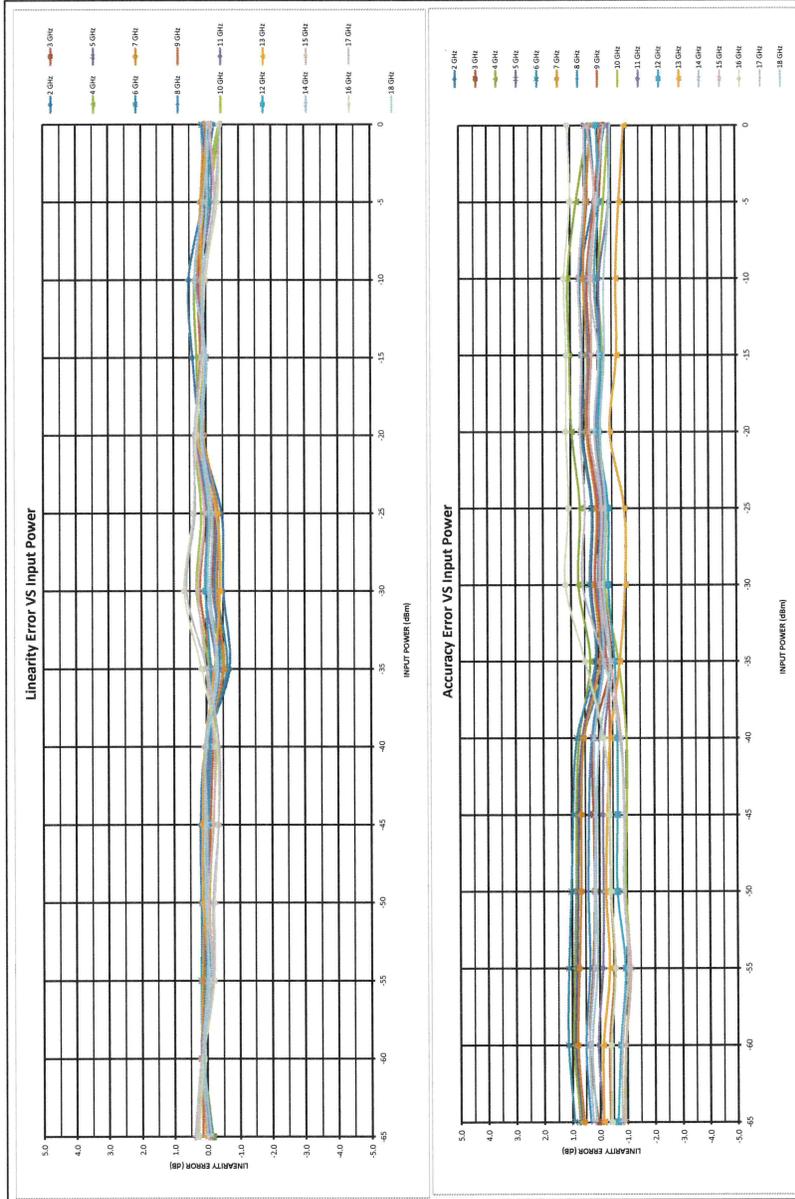
23	VIDEO OUT Propagation Delay:	50 ns MAX from RF 50% to 10% video (excluding cable)	< 50 ns	PMI QA3
24	Power Supply	+15 V @ 500 mA MAX -15 V @ 100 mA MAX	+15 V @ 310 mA 15 V @ 80 mA	
25	Power Supply Ripple From DC to 10 MHz	100 mV MAX	Pass	

QA/QC Approval: *H. L. L.*

Date: 8-13-24

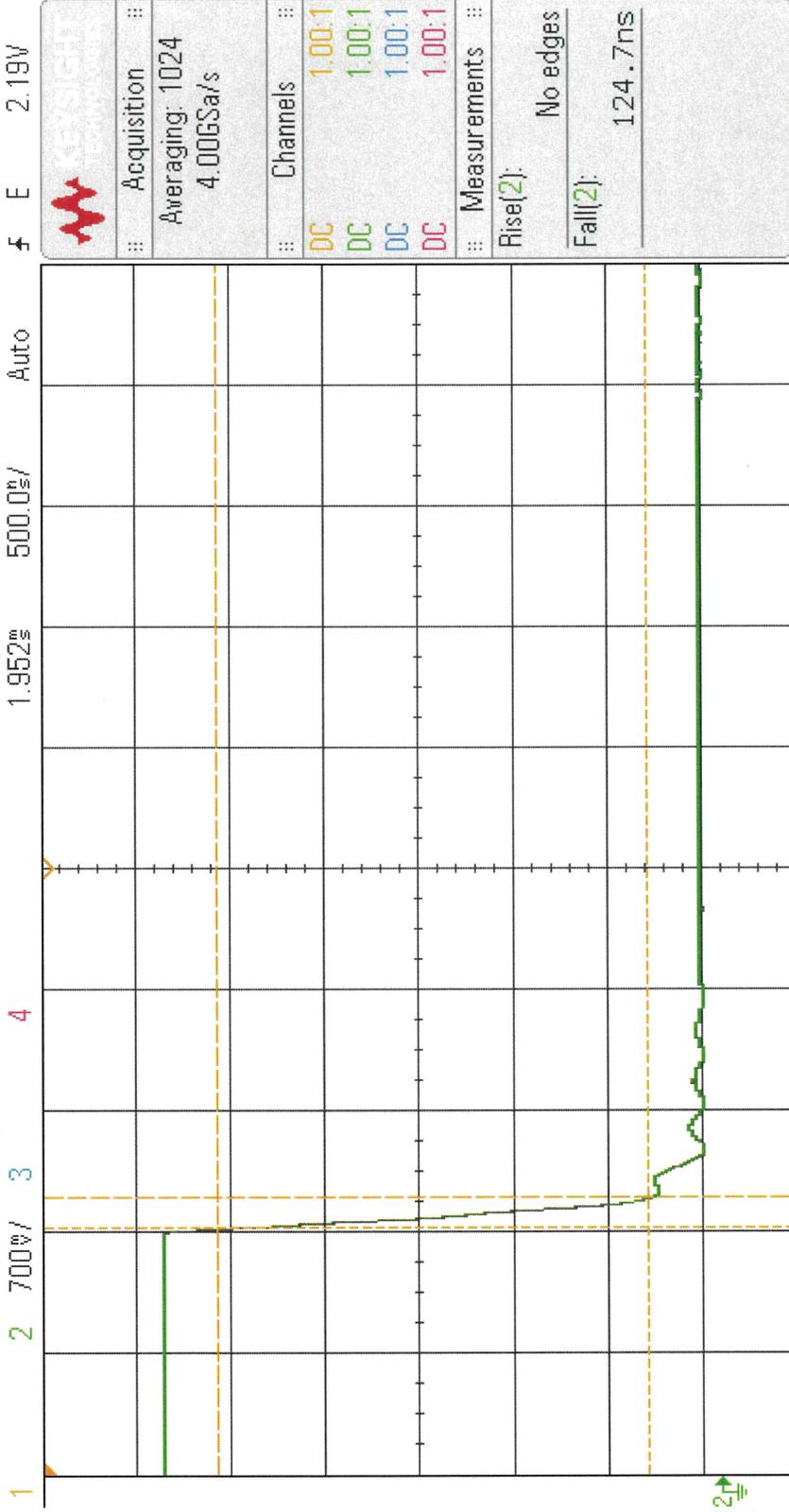


PL40510



# PL40510 Recovery

DSO-X 3034A, MY52394003: Thu Aug 08 10:20:22 2024



Measurement Menu

Source 2

Type: Fall

Add Measurement

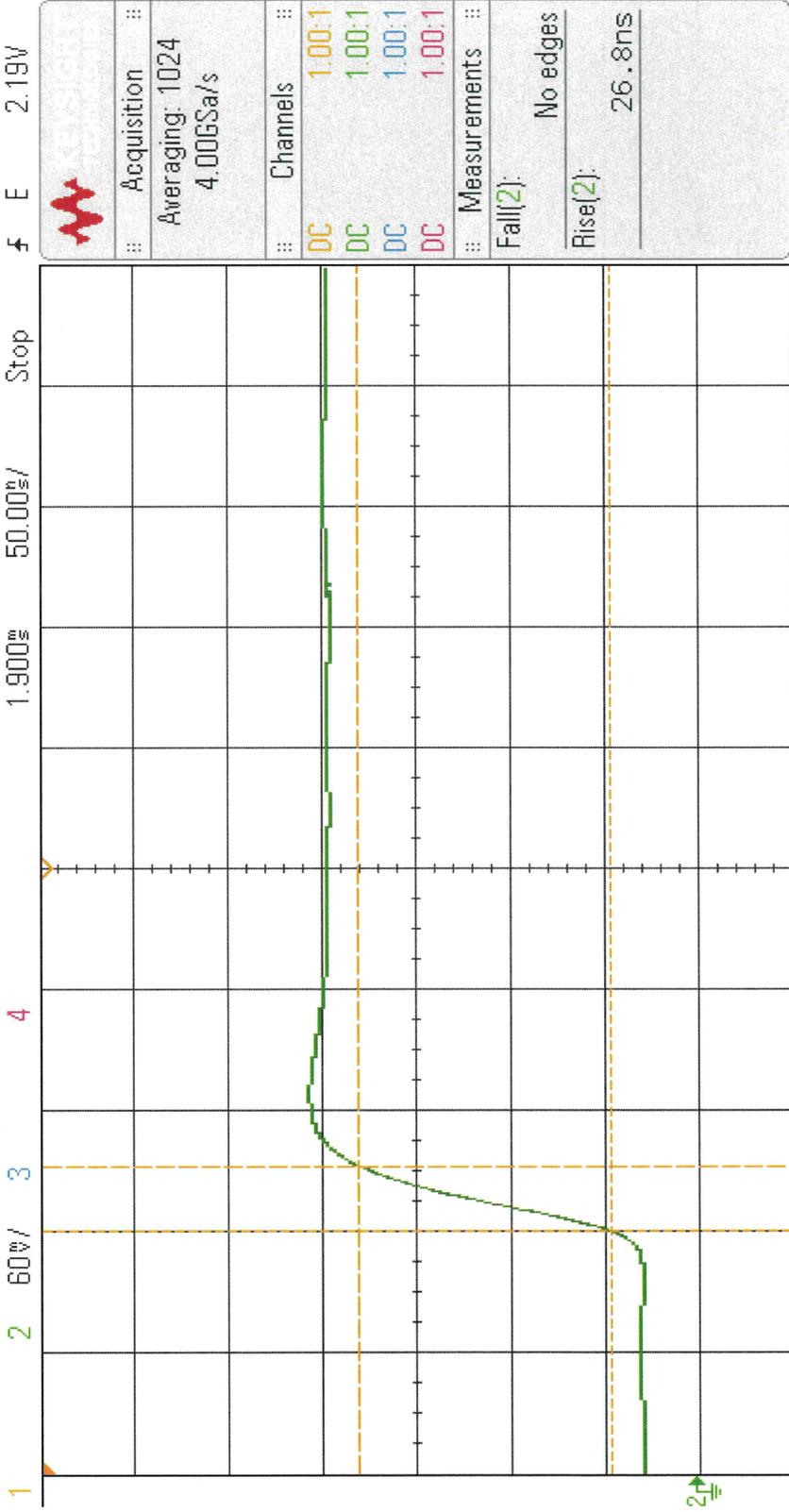
Settings

Clear Meas

Statistics

PL40510  
Rise Time

DSO-X 3034A, MY52394003: Thu Aug 08 10:18:29 2024



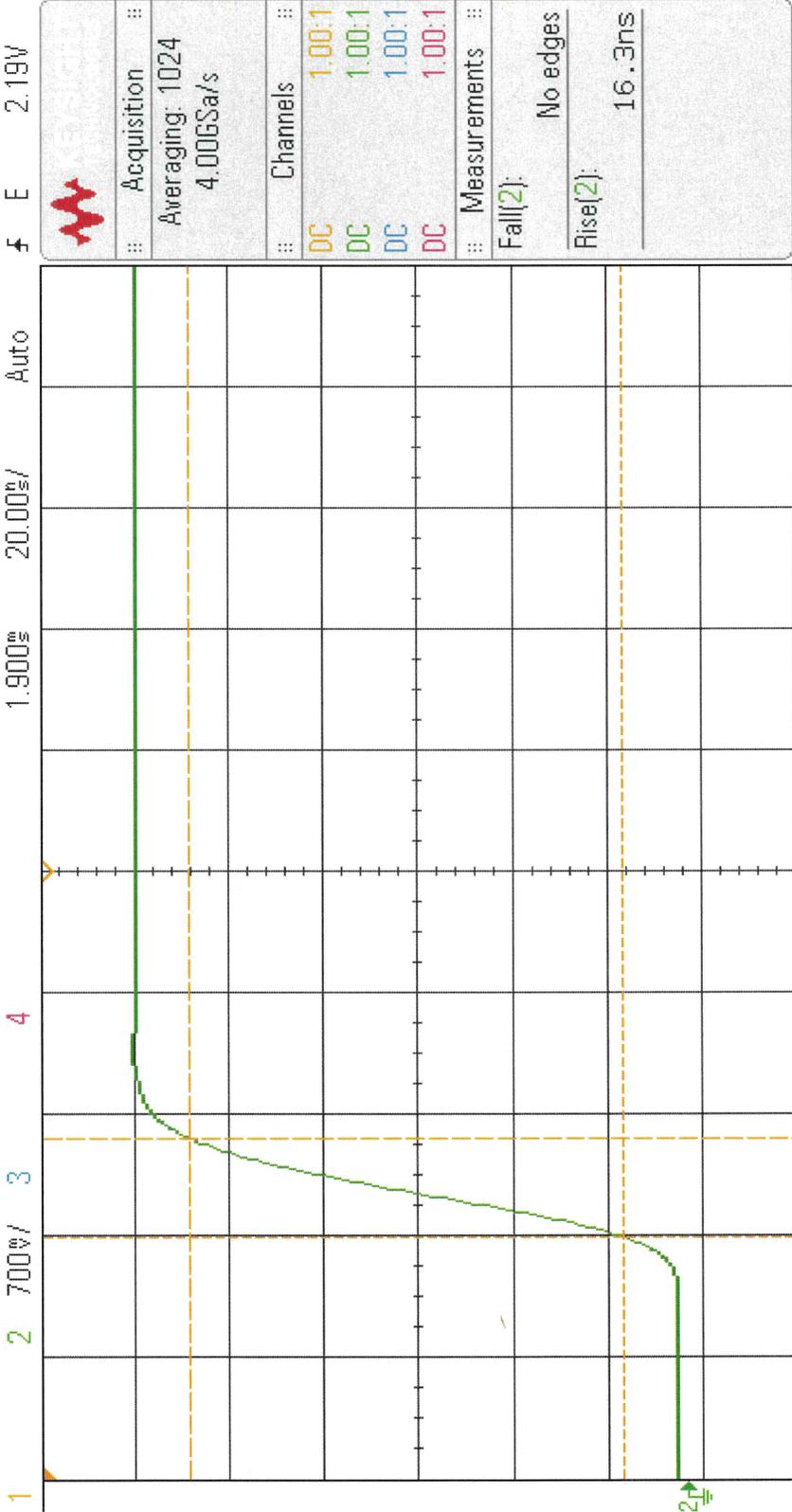
Save to file = pl40510\_rise\_time

Save → Recall → Default/Erace →

Press to Save

PL40510  
settle

DSO-X 3034A, MY52394003: Thu Aug 08 10:19:25 2024



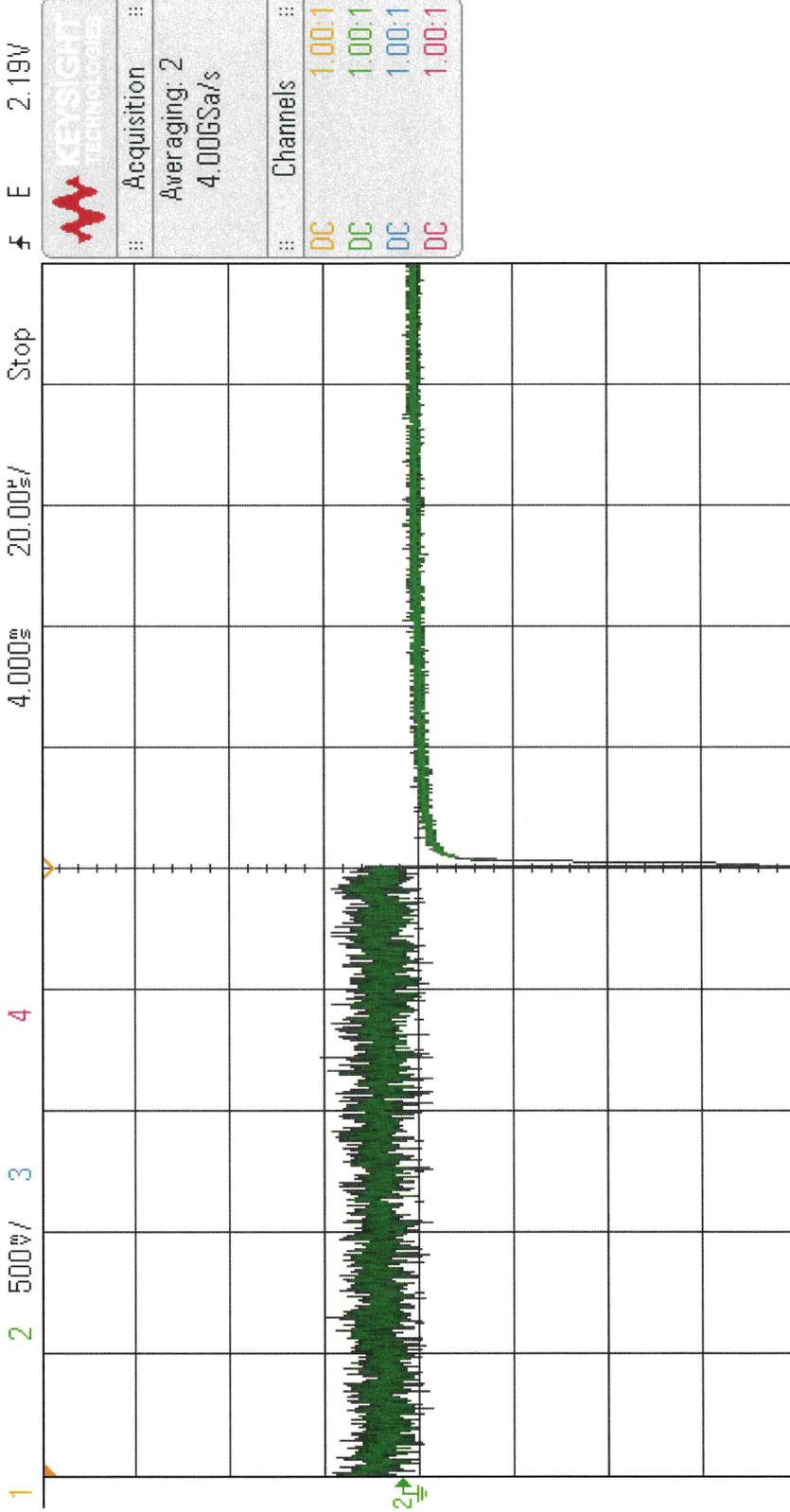
Save to file = pl40510\_settle

Save → Recall → Default/Erase →

Press to Save

PL 40510  
CW Recovery

DSO-X 3034A, MV52394003, Wed Aug 07 12:57:58 2024



Cursors Menu

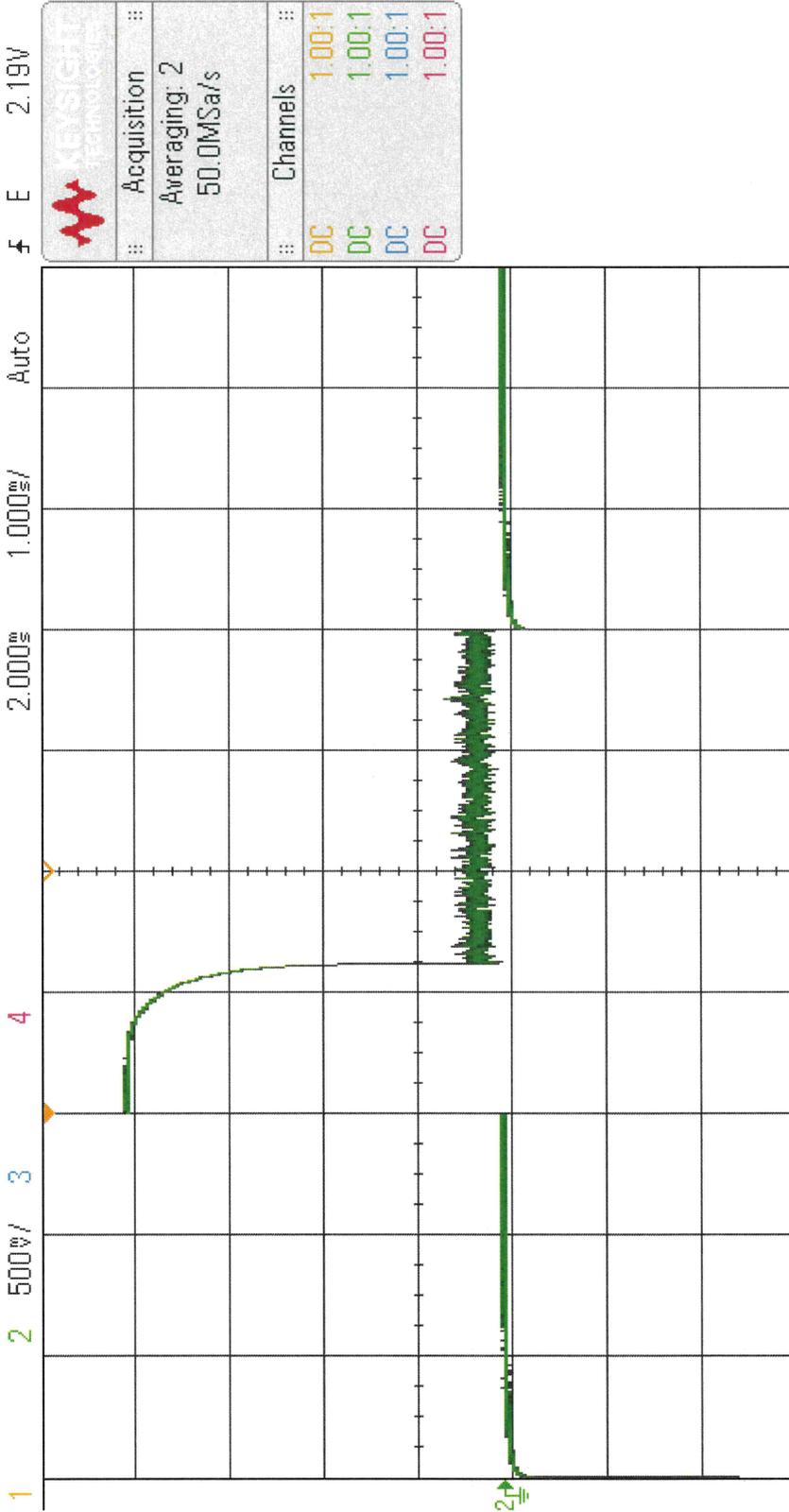
Mode Off

To turn on cursors, press the [Cursors] key on the front panel.

PL40510

CW Immune

DSO-X 3034A, MW52394003, Wed Aug 07 13:15:47 2024



Save to file = pl40510\_cw\_immune

Save

Recall

Default/Erase

Press to Save

## RMA REPAIR REPORT

RMA NO: 2405-085	PMI MODEL No.: 27342040 Customer MODEL No.: NA	SERIAL No: PL40510/2322
DATE RECEIVED: 05/22/2024	JOB NO: 20240307-R	WARRANTY [ X ] Yes [ ] No
CUSTOMER: HI Intelligence	CONTACT NAME: George Chang	TEL#: 916-542-1401
CUSTOMER RTV#: LJ-20008-4	RETURN P.O.: 20240307	
CUSTOMER COMPLAINT: Failed incoming Test.		Verified [ X ] Yes [ ] No
OBSERVATIONS: Channel 1 was bad.		
REPAIR ACTIONS: Changed out IC that was bad. Returned RF & Video for better margins, verified all other specs passing.		
SUSPECTED ROOT CAUSE: Unknown cause resulted in IC chip failing.		
INTERNAL CORRECTIVE ACTION REQUIRED [ ] Yes [ X ] No		CAR NUMBER:
QA Inspector: <i>Arthur Zimmerman</i> Final Inspection & Document Review IAW PMI-Q-P-7008 and PMI-Q-P-7017		DATE: 08/12/2024

**Quantic PMI**

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