



## SUMMARY TEST DATA ON SDLVA-100M4G-CD-2

PL54228/2535

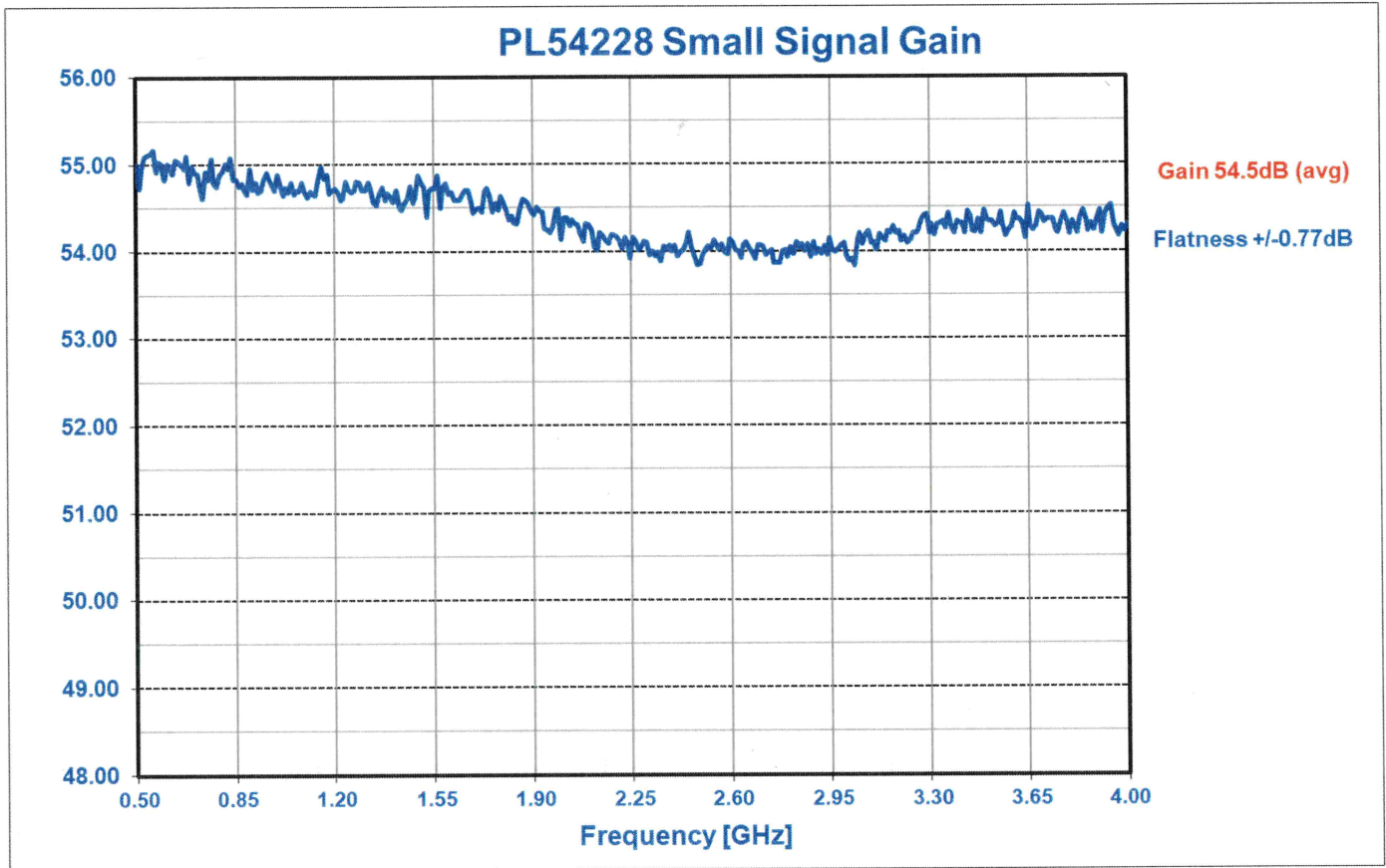
Customer: \_\_\_\_\_ Tested By: Daniel Weinrob  
 SO No: \_\_\_\_\_ Temperature: +25° C  
 Model No: SDLVA-100M4G-CD-2 Date: 08/29/2025  
 Serial No: PL54228/2535 Drawing No: 27619921 Rev: A1

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	100 MHz to 4 GHz	100 MHz to 4 GHz See Plot	PMI QA3
2	RF Gain (Small Signal):	55dB Typ (J1 to J2)@-50dBm	54.5 dB	
3	Video Flatness Over Frequency:	± 50mV Max @-45dBm	±32.5mV	
4	TSS:	-73dBm Typ, -71dBm Max	-71.5 dBm	
5	VSWR:	2.0:1 (J1 VSWR)	1.57:1 (Input)	
6	PSAT:	+13dBm Typ (J2)	14.74 dB	
7	Power Input:	+17dBm CW Max (J1)	Pass	
8	Log Slope:	25mV/dB Typ(J3) (50Ω Load )	25.3 mV/dB See Plot	
9	Log Range:	-70 to 0 dBm	-70 to 0dBm	
10	Log Linearity:	±2.5dB (J3)	±1.5 dB See Plot	
11	DC Offset:	50 ± 50mV(J3)	Pass	
12	Pulse Range:	100ns to CW	Pass	
13	Rise Time:	30ns (Max)	11.8 ns	
14	Recovery Time:	200ns (Max)	<500ns	
15	Harmonics	15dBc Min -70 to 0dBm	<15dBc	
16	DC Supply:	+15VDC @ 350 mA -15VDC @ 180 mA	+15VDC @ 264 mA -15VDC @ 97 mA	

QA/QC Approval: *K. Kourmouzis*

Date: 8.29.25

# RF Gain



# Video Flatness and Logging Linearity

MODEL: SDLVA-100M4G-CD-2  
 SERIAL NO: PL54228  
 DATE: 8/29/25  
 TESTED BY: Justen Gayduchik  
 Test Temp: +25°C



PLANAR MONOLITHICS INDUSTRIES  
 4621 Robert J. Mathews Parkway Suite 1  
 El Dorado Hills, CA 95762  
 Phone 916-542-1401 Fax 301-662-1731  
 WEB: WWW.PMI-RF.COM

Frequency

0.1 GHz INTERCEPT (mV) 1832  
 SLOPE (mV/dB) 25.6

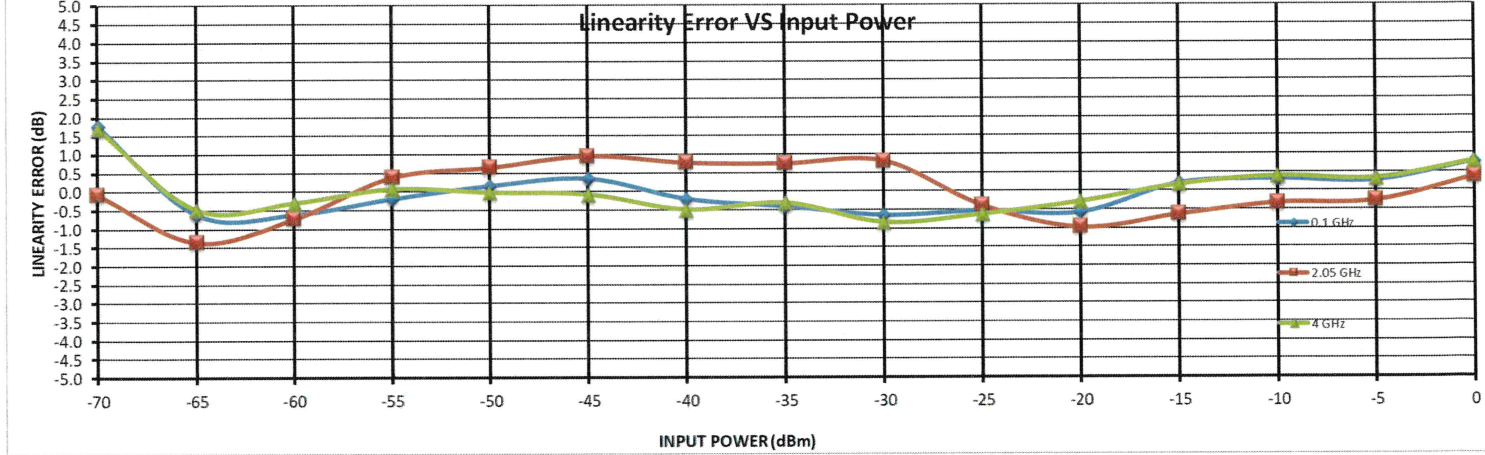
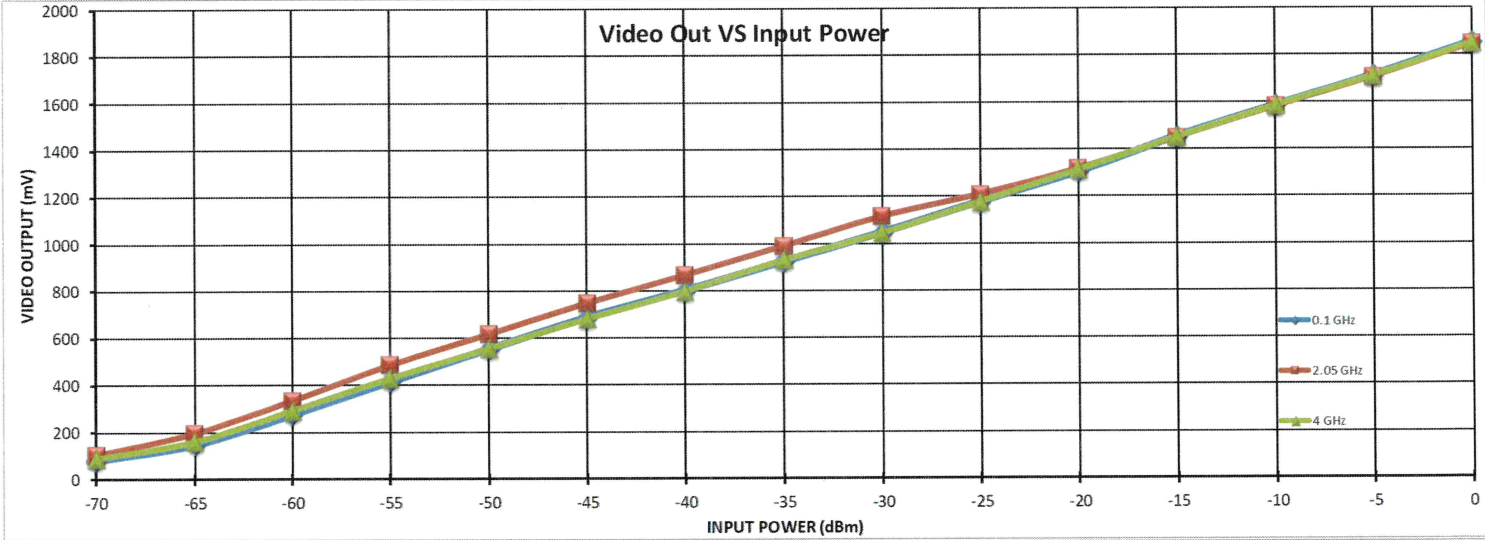
2.05 GHz INTERCEPT (mV) 1835  
 SLOPE (mV/dB) 24.7

4 GHz INTERCEPT (mV) 1831  
 SLOPE (mV/dB) 25.5

Avg. Slope: 25.3 mV/dB  
 Flatness dB: ±1.4 dB

	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
0.1 GHz	84	151	279	418	555	688	802	925	1047	1178	1305	1453	1584	1711	1852
2.05 GHz	104	196	335	486	616	747	866	989	1114	1208	1317	1449	1580	1705	1844
4 GHz	90	162	294	431	556	682	799	931	1045	1178	1314	1453	1586	1712	1851
Error (mV)	1.77	-0.61	-0.62	-0.19	0.15	0.34	-0.21	-0.41	-0.65	-0.54	-0.58	0.20	0.31	0.26	0.77
Error (mV)	-0.07	-1.35	-0.72	0.39	0.65	0.96	0.77	0.75	0.81	-0.38	-0.97	-0.63	-0.32	-0.26	0.36
Error (mV)	1.70	-0.48	-0.30	0.07	-0.02	-0.08	-0.49	-0.31	-0.84	-0.62	-0.29	0.17	0.38	0.33	0.78
RF Input Power (dBm)	0.4	0.9	1.1	1.4	1.2	1.3	1.4	1.3	1.4	0.6	0.2	0.1	0.1	0.1	0.2

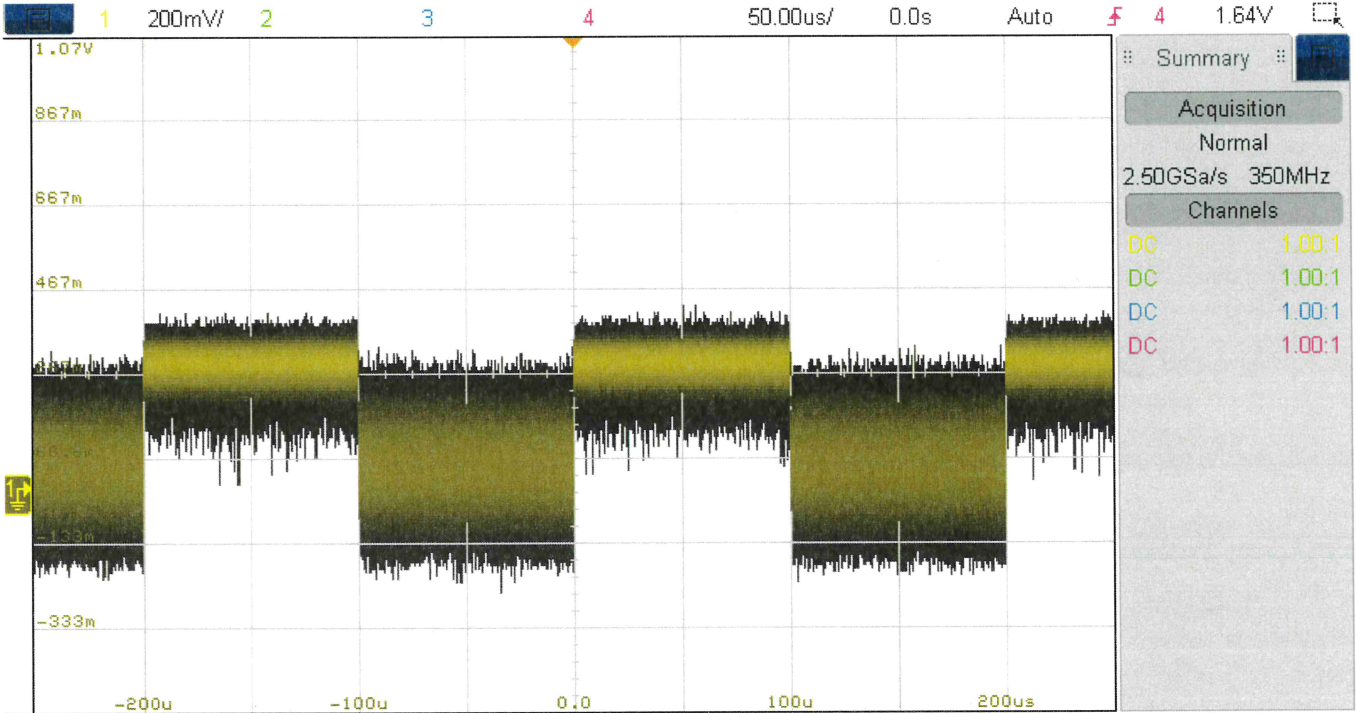
Measured Value (mV)	1.77
Error (mV)	1.35
Measured Value (mV)	1.70
Error (mV)	1.70



# TSS -71.5dBm



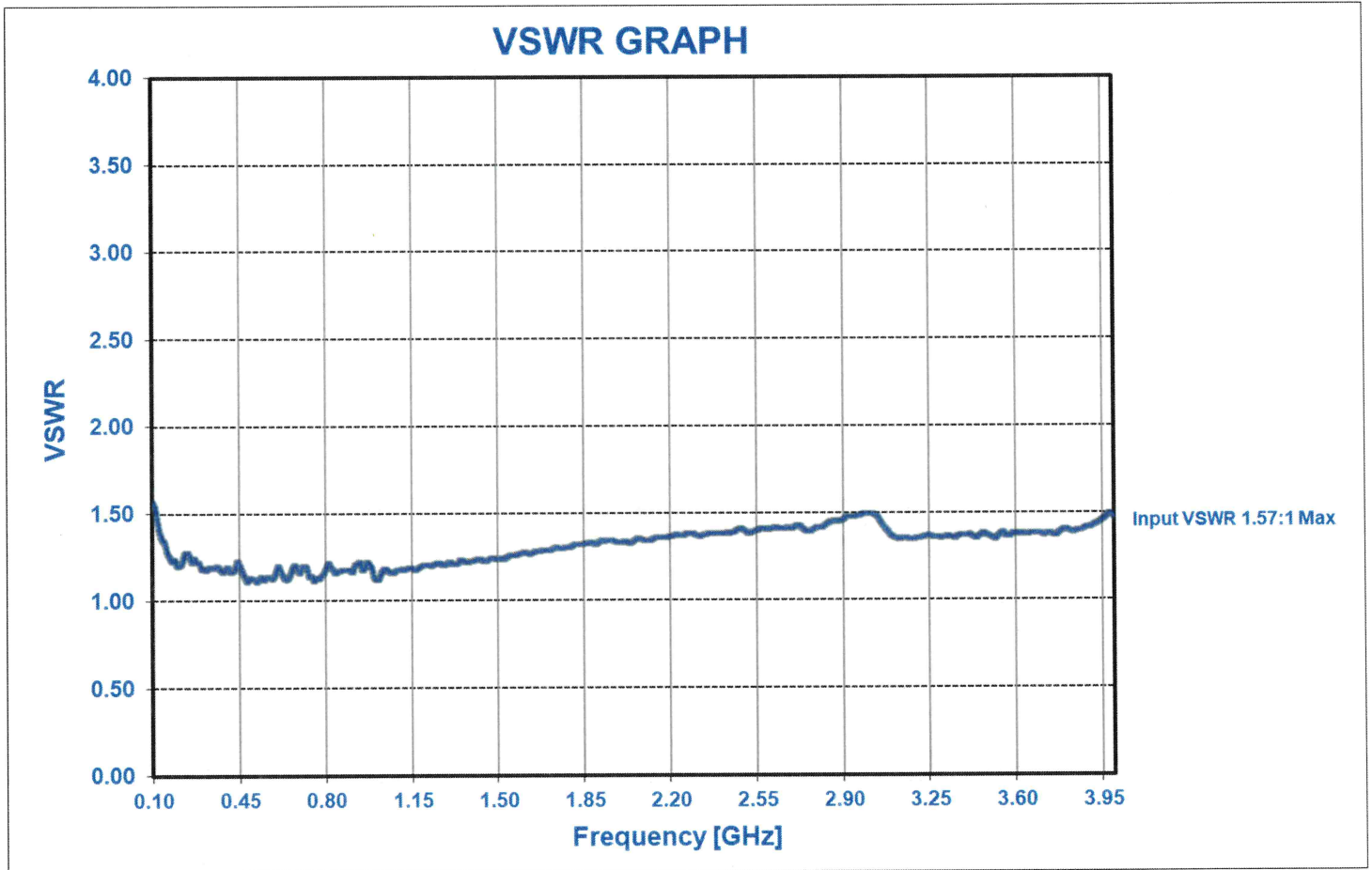
MSO-X 3034T, MY59241076, 07.50.2021102830: Mon Aug 18 13:48:16 2025



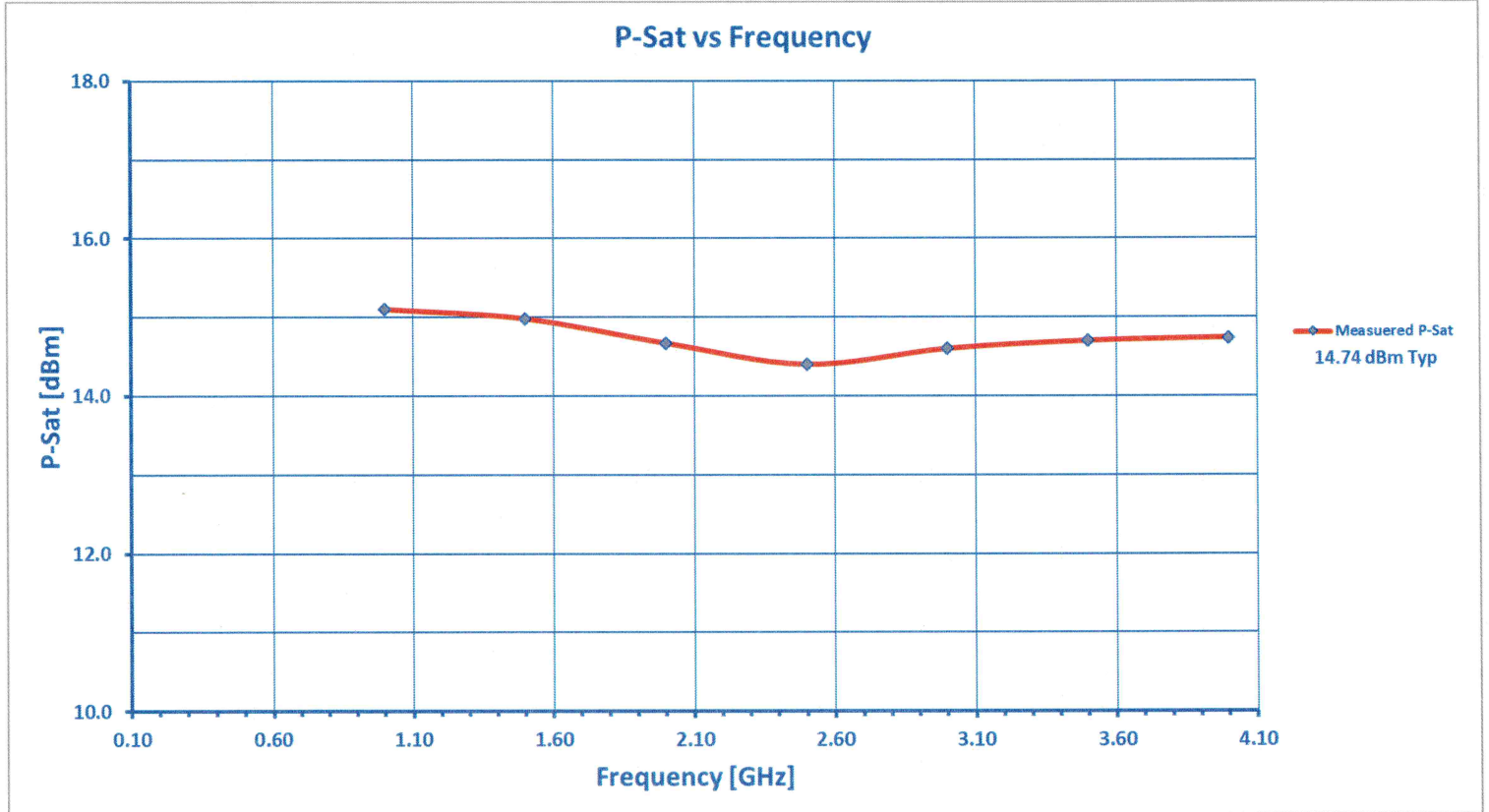
Trigger Menu

↑ Trigger Type Edge Source 4 Slope f

VSWR 1.57:1



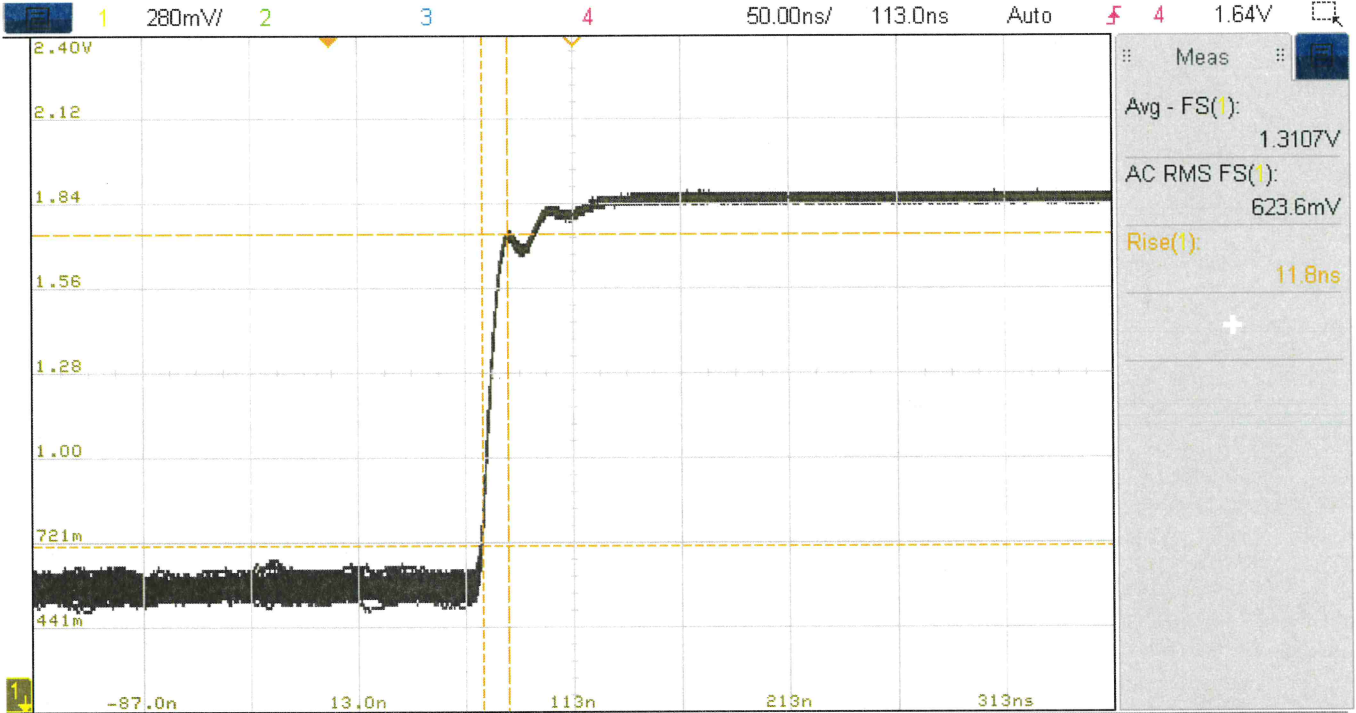
# P-Sat



# Rise Time



MSO-X 3034T, MY59241076, 07.50.2021102830: Mon Aug 18 13:50:44 2025



Add Measurements Menu

Meas Window: Auto Select

↑ Type: Rise Parameter Source Source 1 Add Measurement

# Recovery Time

