Quantic PMI
PLANAR MONOLITHICS

Summary Data
For
ERDLVA-8G18G-65-70MV-2

Customer: [redacted]
SO No: [redacted]
Model No: ERDLVA-8G18G-65-70MV-2
Serial No: PL53799/2531

Tested By: Jim Hopson
Temperature: +25°C, +85C, -10C
Date 7/31/2025
Drawing No: 27650100 **Rev:** A1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	8 to 18 GHz	**8 to 18 GHz**	
2	Input VSWR:	2.3:1 Max	**1.82:1**	
3	Input Power Max:	(1) 1 W CW (2) 100 W Peak @ PW = 1 us & Duty Cycle = 1%	**W CW Pass** **W Peak Pass**	
4	Switch Isolation:	60 dB Min (All Ports)	**>60dB**	
5	Switching Speed:	100 ns Max	**<100ns**	

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TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
6	TSS:	-71 dBm	**-73dBm**	
7	Dynamic Range:	-65 to 0 dBm	**-65 to 0 dBm**	
8	Log Slope:	70 mV/dB ±3 mV/dB	**69.57/70.90mV/dB**	
9	Log Linearity:	±1.0 dB Max	**+.39/-.64dB**	
10	Log Accuracy @ 25°C:	±1.75 dB Max	**1.01/-1.05dB**	
11	Absolute Log Accuracy:	±2.0 dB Max	**+1.43/-1.46dB**	
12	DC Offset:	±70 mV	**+47mV**	
13	Rise Time:	28 ns Max (10% to 90% @ -50 to 0 dBm, 10% to 90% Full Dynamic Range Guaranteed)	**34.3ns**	
14	Fall Time:	300 ns Max (10% to 90% @ -50 to 0 dBm, 10% to 90% Full Dynamic Range Guaranteed)	**195.9ns**	
15	Settling Time:	50 ns Max (From 10% to within 70 mV of final value @ -40 & -10 dBm)	**75ns**	
16	Recovery Time:	1 us Max (From 90% to within ±1.5 dB of baseline)	**750ns**	
17	Video Frequency Flatness:	±1.75 dB Max @ 25°C	**.81dB**	
18	Pulse Width Process Range:	100 ns to 100 us	**100 ns to 100 us**	
19	Video Output Load Impedance:	95 ±1 Ω	**95 ±1 Ω**	

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TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
20	Video Output @ -65 dBm:	330 ± 123 mV Over Frequency	**279/376mV**	
21	Video Output Drive Capability:	Driving 100 ft RG180 into 95 Ω Load	**Pass**	
22	Pulse Density Capability:	10% Duty @ 100 ns PW 70% Duty @ 100 us PW	**10% Duty @ 100ns PW** **70% Duty @ 100us PW**	
23	Noise Level:	25 mV RMS Max	**17.3mV**	
24	Pulse Droop @ -65 dBm:	70 mV Max for PW 100 us	**<70mV**	
25	Propagation Delay:	50 ns Max (50% RF to 10% Video)	**<50ns**	
26	CW Immune Power:	TSS to -40 dBm	**TSS to -40 dBm**	
27	Baseline Shift:	200 mV Max @ -40 dBm CW	**<200mV**	
28	Pulse Amplitude Loss with Pulse @ -30 dBm:	CW @ -50 dBm = No Loss CW @ -40 dBm = 2 dB Max	**-50 dBm = 0dB** **-40 dBm = <1dB**	
29	CW Immue Time @ CW = -40 dBm	4 ms Max	**2.6ms**	
30	CW Recovery Time @ CW = -40 dBm	120 us Max	**<100us**	
31	DC Power:	+15V (±5%) @ 500 mA Max -15V (±5%) @ 200 mA Max	**480 mA** **140 mA**	
32	Ripple DC to 10 MHz	100 mV Max	**<100mV**	

QA/QC Approval: _____ **Date:** _____

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LOG TRANSFER WITH FREQUENCY
MODEL: ERDLVA-8G18G-65-70MV-2
TESTED BY: JIM HOPSON
DATE: 7/31/25
SERIAL NO: PL53799-RF

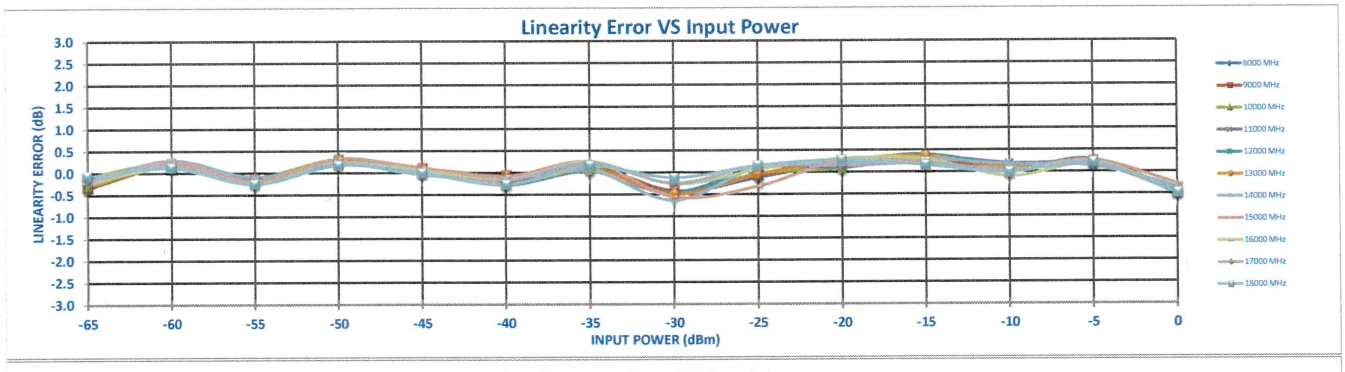
Test Temp: +25C

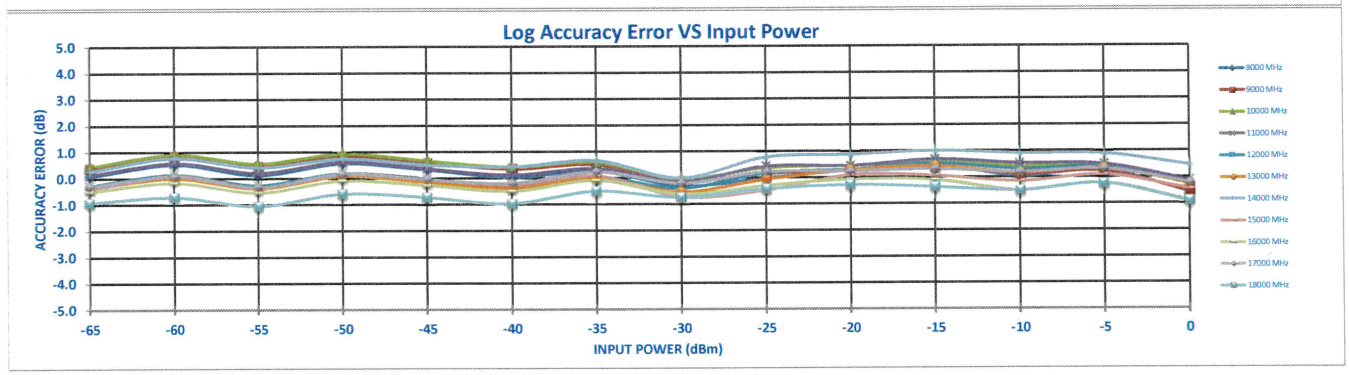
DC Offset= 0.047

PLANAR MONOLITHICS INDUSTRIES
4921 Robert J. Mathews Parkway STE 1
TEL: 916-542-1401 FAX: 301-662-1731
EMAIL: SALES@PMI-RF.COM
ISO 9001:2000 CERTIFIED

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
8000 MHz	INTERCEPT (mV)	4918.3	350	734	1058	1441	1776	2108	2476	2787	3160	3533	3896	4222	4588	4882	Measured Value (mV)
	SLOPE (mV/dB)	69.99	-19	15	-11	22	7	-11	7	-32	-9	15	28	4	20	-36	Error (mV)
			-0.27	0.21	-0.16	0.32	0.10	-0.15	0.10	-0.45	-0.12	0.21	0.39	0.05	0.28	-0.52	LINEARITY ERROR (dB)
			0.07	0.52	0.12	0.56	0.32	0.03	0.26	-0.32	-0.03	0.27	0.42	0.05	0.25	-0.58	ACCURACY ERROR (dB)
9000 MHz	INTERCEPT (mV)	4916.6	371	755	1082	1460	1794	2130	2493	2800	3172	3535	3893	4226	4586	4883	Measured Value (mV)
	SLOPE (mV/dB)	69.57	-24	12	-8	22	8	-4	11	-30	-5	10	20	5	17	-34	Error (mV)
			-0.34	0.18	-0.12	0.31	0.11	-0.06	0.16	-0.43	-0.08	0.14	0.29	0.07	0.25	-0.48	LINEARITY ERROR (dB)
			0.37	0.82	0.47	0.83	0.58	0.35	0.50	-0.14	0.14	0.30	0.38	0.11	0.22	-0.56	ACCURACY ERROR (dB)
10000 MHz	INTERCEPT (mV)	4936.1	376	761	1089	1467	1800	2136	2499	2806	3188	3545	3910	4247	4602	4907	Measured Value (mV)
	SLOPE (mV/dB)	69.83	-21	15	-6	22	6	-7	7	-35	-2	5	21	9	15	-29	Error (mV)
			-0.30	0.21	-0.09	0.32	0.09	-0.10	0.10	-0.50	-0.03	0.08	0.31	0.13	0.21	-0.42	LINEARITY ERROR (dB)
			0.44	0.91	0.56	0.93	0.66	0.43	0.59	-0.05	0.37	0.44	0.62	0.41	0.45	-0.22	ACCURACY ERROR (dB)
11000 MHz	INTERCEPT (mV)	4945.8	354	738	1064	1445	1779	2114	2483	2799	3192	3545	3914	4255	4605	4914	Measured Value (mV)
	SLOPE (mV/dB)	70.42	-15	17	-9	20	2	-15	2	-34	7	8	24	13	11	-32	Error (mV)
			-0.21	0.25	-0.13	0.29	0.03	-0.21	0.03	-0.49	0.09	0.11	0.35	0.19	0.16	-0.45	LINEARITY ERROR (dB)
			0.13	0.58	0.21	0.62	0.36	0.12	0.36	-0.15	0.43	0.44	0.68	0.52	0.49	-0.12	ACCURACY ERROR (dB)
12000 MHz	INTERCEPT (mV)	4937.8	325	707	1031	1415	1752	2085	2461	2781	3174	3535	3903	4240	4597	4903	Measured Value (mV)
	SLOPE (mV/dB)	70.81	-10	18	-12	18	1	-20	2	-32	7	13	27	10	13	-35	Error (mV)
			-0.14	0.25	-0.17	0.25	0.01	-0.29	0.02	-0.46	0.09	0.19	0.39	0.15	0.19	-0.49	LINEARITY ERROR (dB)
			-0.28	0.14	-0.26	0.19	-0.02	-0.29	0.05	-0.41	0.17	0.30	0.52	0.31	0.38	-0.28	ACCURACY ERROR (dB)
13000 MHz	INTERCEPT (mV)	4932.7	319	697	1022	1407	1743	2079	2456	2771	3157	3534	3895	4230	4593	4904	Measured Value (mV)
	SLOPE (mV/dB)	70.88	-6	17	-12	18	0	-18	4	-35	-4	19	26	6	15	-29	Error (mV)
			-0.09	0.24	-0.17	0.26	0.00	-0.26	0.06	-0.50	-0.05	0.27	0.36	0.09	0.21	-0.40	LINEARITY ERROR (dB)
			-0.37	0.00	-0.39	0.08	-0.15	-0.38	-0.02	-0.55	-0.07	0.28	0.41	0.17	0.32	-0.26	ACCURACY ERROR (dB)
14000 MHz	INTERCEPT (mV)	4978.2	364	751	1078	1454	1789	2136	2504	2809	3216	3575	3937	4282	4633	4954	Measured Value (mV)
	SLOPE (mV/dB)	70.80	-12	21	-6	16	-3	-10	4	-45	8	13	21	12	9	-24	Error (mV)
			-0.17	0.29	-0.09	0.22	-0.05	-0.15	0.05	-0.64	0.11	0.18	0.29	0.17	0.12	-0.34	LINEARITY ERROR (dB)
			0.27	0.77	0.41	0.75	0.50	0.43	0.66	-0.01	0.77	0.86	1.01	0.90	0.89	0.45	ACCURACY ERROR (dB)
15000 MHz	INTERCEPT (mV)	4909.9	315	704	1026	1413	1750	2088	2463	2758	3127	3520	3870	4207	4576	4890	Measured Value (mV)
	SLOPE (mV/dB)	70.40	-19	18	-12	23	8	-6	17	-40	-23	18	16	1	18	-20	Error (mV)
			-0.27	0.26	-0.17	0.33	0.11	-0.08	0.24	-0.57	-0.33	0.26	0.23	0.02	0.26	-0.28	LINEARITY ERROR (dB)
			-0.43	0.10	-0.33	0.17	-0.05	-0.25	0.07	-0.74	-0.50	0.08	0.05	-0.16	0.08	-0.46	ACCURACY ERROR (dB)
16000 MHz	INTERCEPT (mV)	4893.3	309	685	1011	1395	1734	2070	2451	2766	3140	3509	3859	4183	4554	4859	Measured Value (mV)
	SLOPE (mV/dB)	70.29	-16	9	-16	16	4	-12	18	-19	4	21	20	-7	12	-34	Error (mV)
			-0.22	0.13	-0.23	0.23	0.05	-0.17	0.25	-0.27	0.06	0.31	0.29	-0.11	0.17	-0.49	LINEARITY ERROR (dB)
			-0.51	-0.17	-0.54	-0.09	-0.28	-0.51	-0.10	-0.62	-0.31	-0.07	-0.10	-0.50	-0.23	-0.90	ACCURACY ERROR (dB)
17000 MHz	INTERCEPT (mV)	4936.1	323	702	1026	1412	1750	2092	2474	2795	3177	3530	3888	4231	4592	4907	Measured Value (mV)
	SLOPE (mV/dB)	70.78	-12	13	-17	15	-1	-13	15	-18	10	10	14	3	10	-29	Error (mV)
			-0.17	0.18	-0.24	0.21	-0.01	-0.18	0.22	-0.25	0.15	0.13	0.19	0.04	0.14	-0.41	LINEARITY ERROR (dB)
			-0.31	0.07	-0.33	0.15	-0.05	-0.19	0.23	-0.21	0.21	0.23	0.31	0.18	0.31	-0.22	ACCURACY ERROR (dB)
18000 MHz	INTERCEPT (mV)	4892.7	279	647	975	1360	1702	2037	2422	2757	3131	3494	3840	4183	4553	4858	Measured Value (mV)
	SLOPE (mV/dB)	70.90	-5	8	-18	12	0	-20	11	-9	11	19	11	-1	15	-35	Error (mV)
			-0.07	0.12	-0.26	0.17	0.00	-0.28	0.15	-0.12	0.15	0.27	0.15	-0.01	0.21	-0.49	LINEARITY ERROR (dB)
			-0.94	-0.71	-1.05	-0.59	-0.73	-0.97	-0.51	-0.75	-0.44	-0.29	-0.37	-0.50	-0.25	-0.92	ACCURACY ERROR (dB)
	Flatness	+/- dB	0.69	0.81	0.81	0.76	0.70	0.70	0.58	0.37	0.63	0.58	0.69	0.70	0.57	0.68	

-65dBm mV-Out	
376	Max
279	Min





LOG TRANSFER WITH FREQUENCY
MODEL: ERDLVA-8G18G-65-70MV-2
TESTED BY: JIM HOPSON
DATE: 7/31/25
SERIAL NO: PL53799-BIT

Test Temp: +25C

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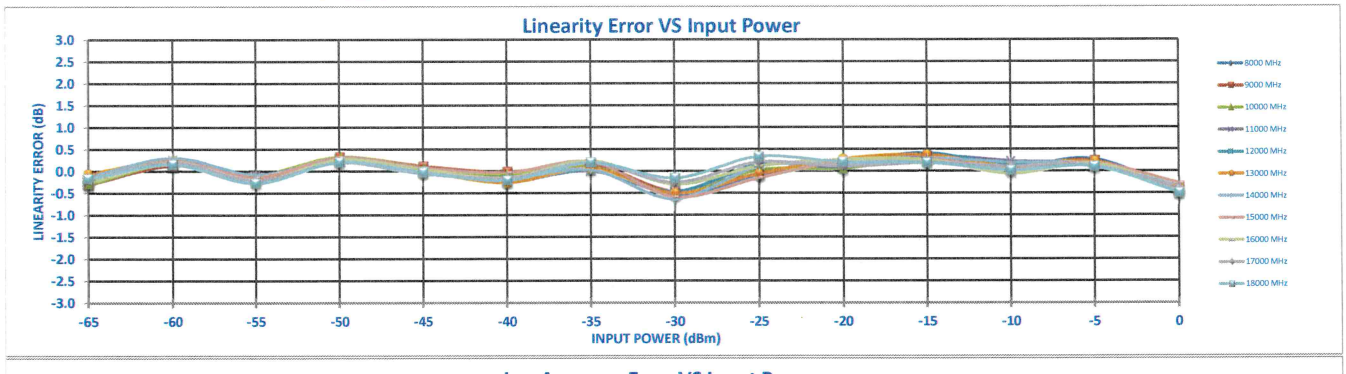
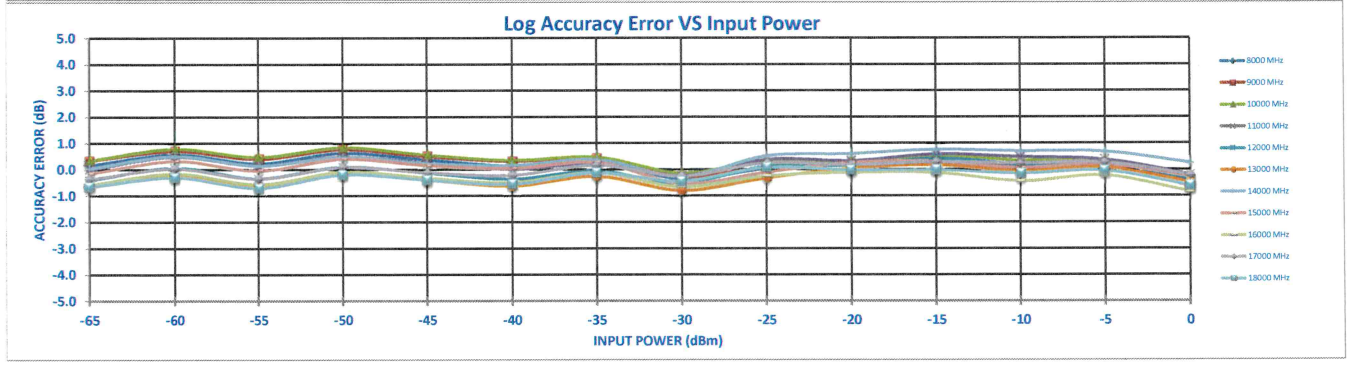
4921 Robert J. Mathews Parkway STE 1
TEL: 916-542-1401 FAX: 301-662-1731
EMAIL: SALES@PMI-RF.COM
ISO 9001:2000 CERTIFIED

DC Offset= 0.047

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
8000 MHz	INTERCEPT (mV)	4942.6	376	757	1085	1465	1799	2135	2500	2804	3185	3555	3921	4249	4611	4909	Measured Value (mV)
	SLOPE (mV/dB)	69.99	-17	14	-8	22	6	-8	7	-39	-8	12	28	6	18	-34	Error (mV)
			-0.25	0.20	-0.12	0.31	0.08	-0.11	0.10	-0.56	-0.11	0.17	0.40	0.09	0.26	-0.48	LINEARITY ERROR (dB)
			0.16	0.57	0.22	0.62	0.36	0.13	0.31	-0.37	0.04	0.29	0.49	0.15	0.28	-0.48	ACCURACY ERROR (dB)
9000 MHz	INTERCEPT (mV)	4930.3	388	766	1097	1475	1808	2147	2507	2811	3187	3548	3909	4241	4598	4897	Measured Value (mV)
	SLOPE (mV/dB)	69.55	-22	9	-8	22	7	-1	11	-33	-5	9	22	6	15	-33	Error (mV)
			-0.31	0.13	-0.12	0.32	0.11	-0.02	0.16	-0.47	-0.07	0.12	0.32	0.09	0.22	-0.48	LINEARITY ERROR (dB)
			0.33	0.69	0.39	0.76	0.49	0.30	0.41	-0.27	0.07	0.19	0.32	0.03	0.10	-0.65	ACCURACY ERROR (dB)
10000 MHz	INTERCEPT (mV)	4949.5	389	772	1102	1480	1812	2150	2511	2820	3205	3556	3923	4262	4613	4920	Measured Value (mV)
	SLOPE (mV/dB)	69.84	-21	13	-6	23	5	-6	6	-34	2	3	21	11	13	-29	Error (mV)
			-0.30	0.19	-0.09	0.32	0.08	-0.08	0.09	-0.49	0.02	0.05	0.30	0.16	0.18	-0.42	LINEARITY ERROR (dB)
			0.34	0.78	0.46	0.83	0.54	0.34	0.47	-0.14	0.32	0.31	0.52	0.33	0.31	-0.33	ACCURACY ERROR (dB)
11000 MHz	INTERCEPT (mV)	4960.1	365	751	1079	1455	1790	2126	2494	2813	3209	3557	3927	4271	4617	4929	Measured Value (mV)
	SLOPE (mV/dB)	70.46	-15	18	-6	18	1	-16	0	-33	10	6	24	15	9	-31	Error (mV)
			-0.22	0.26	-0.08	0.25	0.01	-0.22	0.00	-0.47	0.15	0.09	0.34	0.22	0.13	-0.44	LINEARITY ERROR (dB)
			0.00	0.48	0.14	0.48	0.23	0.00	0.23	-0.24	0.38	0.32	0.57	0.46	0.37	-0.20	ACCURACY ERROR (dB)
12000 MHz	INTERCEPT (mV)	4950	336	721	1045	1428	1764	2100	2474	2793	3190	3545	3915	4252	4608	4916	Measured Value (mV)
	SLOPE (mV/dB)	70.80	-12	19	-11	18	0	-18	2	-33	10	11	27	10	12	-34	Error (mV)
			-0.17	0.27	-0.16	0.25	0.00	-0.26	0.03	-0.47	0.14	0.15	0.38	0.14	0.17	-0.48	LINEARITY ERROR (dB)
			-0.41	0.05	-0.35	0.09	-0.14	-0.37	-0.06	-0.53	0.11	0.15	0.40	0.19	0.24	-0.38	ACCURACY ERROR (dB)
13000 MHz	INTERCEPT (mV)	4935.8	323	699	1023	1409	1745	2081	2459	2773	3159	3537	3898	4233	4596	4908	Measured Value (mV)
	SLOPE (mV/dB)	70.90	-4	17	-13	18	0	-19	5	-36	-4	19	26	6	15	-28	Error (mV)
			-0.06	0.24	-0.19	0.25	-0.01	-0.27	0.06	-0.51	-0.06	0.27	0.36	0.09	0.21	-0.39	LINEARITY ERROR (dB)
			-0.60	-0.26	-0.66	-0.18	-0.41	-0.64	-0.27	-0.81	-0.33	0.04	0.16	-0.08	0.07	-0.50	ACCURACY ERROR (dB)
14000 MHz	INTERCEPT (mV)	4982.3	367	752	1079	1454	1789	2136	2504	2811	3218	3576	3939	4287	4638	4960	Measured Value (mV)
	SLOPE (mV/dB)	70.86	-9	21	-6	15	-5	-12	2	-45	7	11	20	13	10	-22	Error (mV)
			-0.13	0.30	-0.08	0.21	-0.06	-0.17	0.03	-0.64	0.10	0.15	0.28	0.19	0.14	-0.31	LINEARITY ERROR (dB)
			0.03	0.49	0.14	0.46	0.22	0.14	0.37	-0.27	0.51	0.59	0.74	0.68	0.67	0.24	ACCURACY ERROR (dB)
15000 MHz	INTERCEPT (mV)	4943.3	354	739	1066	1449	1784	2128	2497	2792	3174	3552	3907	4242	4604	4923	Measured Value (mV)
	SLOPE (mV/dB)	70.32	-19	15	-10	22	5	-3	15	-42	-11	15	18	2	12	-20	Error (mV)
			-0.26	0.21	-0.14	0.31	0.07	-0.04	0.21	-0.59	-0.16	0.21	0.26	0.03	0.18	-0.29	LINEARITY ERROR (dB)
			-0.16	0.31	-0.05	0.39	0.15	0.03	0.27	-0.54	-0.12	0.25	0.29	0.05	0.19	-0.29	ACCURACY ERROR (dB)
16000 MHz	INTERCEPT (mV)	4915.1	323	706	1029	1415	1751	2090	2469	2783	3164	3526	3877	4207	4574	4883	Measured Value (mV)
	SLOPE (mV/dB)	70.36	-19	13	-16	18	2	-11	17	-21	8	18	17	-5	11	-32	Error (mV)
			-0.26	0.18	-0.23	0.26	0.03	-0.15	0.24	-0.30	0.11	0.26	0.25	-0.06	0.15	-0.46	LINEARITY ERROR (dB)
			-0.60	-0.16	-0.57	-0.09	-0.32	-0.51	-0.13	-0.67	-0.26	-0.12	-0.14	-0.45	-0.24	-0.85	ACCURACY ERROR (dB)
17000 MHz	INTERCEPT (mV)	4955.7	339	719	1044	1427	1765	2110	2489	2812	3199	3546	3906	4254	4609	4927	Measured Value (mV)
	SLOPE (mV/dB)	70.84	-12	14	-15	13	-3	-12	13	-18	14	7	13	7	7	-29	Error (mV)
			-0.17	0.20	-0.22	0.19	-0.04	-0.17	0.18	-0.26	0.20	0.10	0.18	0.09	0.11	-0.41	LINEARITY ERROR (dB)
			-0.37	0.03	-0.36	0.08	-0.12	-0.22	0.16	-0.26	0.24	0.16	0.28	0.22	0.26	-0.23	ACCURACY ERROR (dB)
18000 MHz	INTERCEPT (mV)	4934.6	318	695	1019	1407	1745	2086	2469	2798	3187	3532	3885	4227	4587	4899	Measured Value (mV)
	SLOPE (mV/dB)	70.84	-12	11	-20	14	-2	-15	14	-12	23	14	13	1	7	-36	Error (mV)
			-0.17	0.15	-0.28	0.20	-0.03	-0.21	0.19	-0.16	0.33	0.20	0.18	0.01	0.09	-0.50	LINEARITY ERROR (dB)
			-0.67	-0.31	-0.71	-0.21	-0.41	-0.57	-0.13	-0.46	0.07	-0.03	-0.02	-0.17	-0.06	-0.63	ACCURACY ERROR (dB)
	Flatness	+/- dB	0.50	0.55	0.59	0.52	0.48	0.49	0.37	0.33	0.42	0.35	0.44	0.57	0.45	0.55	

-65dBm mV-Out	
389	Max
318	Min





LOG TRANSFER WITH FREQUENCY
MODEL: ERDLVA-8G18G-65-70MV-2
TESTED BY: JIM HOPSON
DATE: 7/31/25
SERIAL NO: PL53799-RF

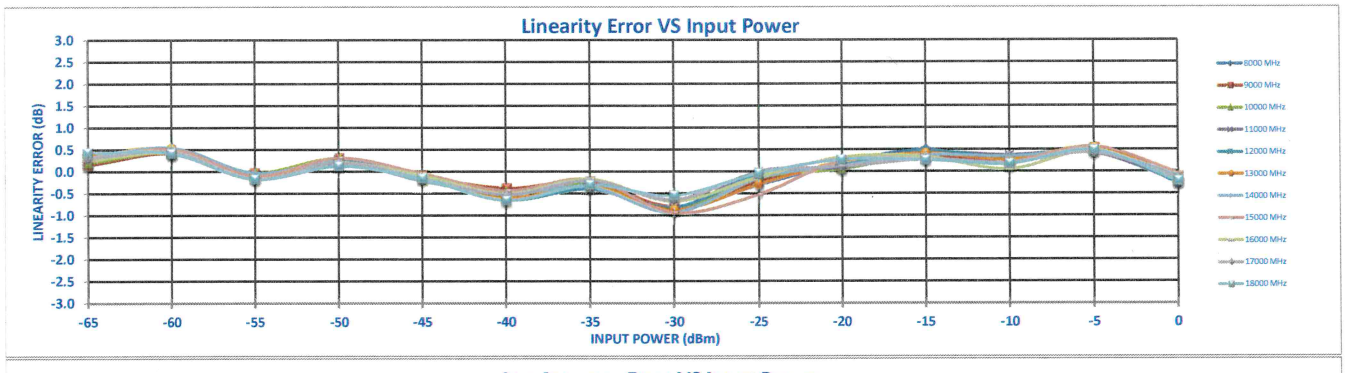
Test Temp: -10C

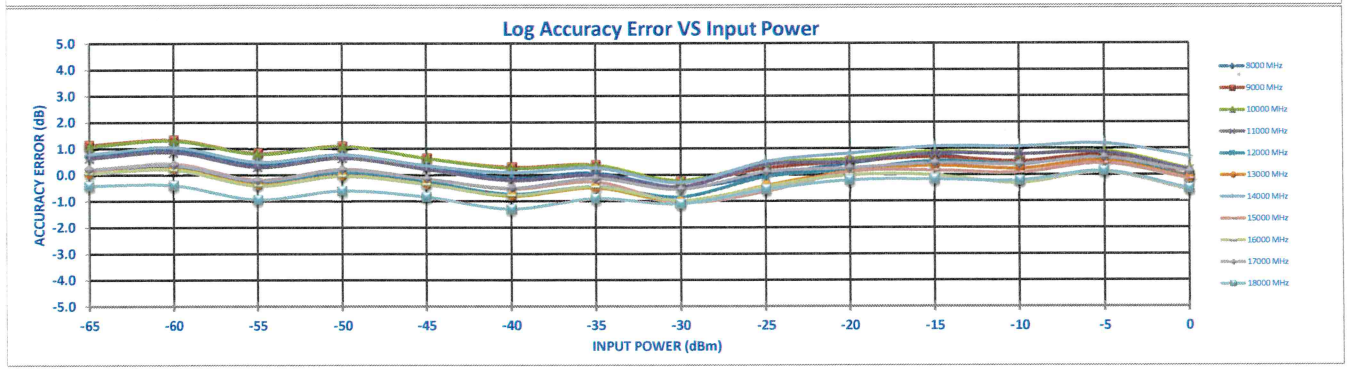
DC Offset= 0.029

PLANAR MONOLITHICS INDUSTRIES
4921 Robert J. Mathews Parkway STE 1
TEL: 916-542-1401 FAX: 301-662-1731
EMAIL: SALES@PMI-RF.COM
ISO 9001:2000 CERTIFIED

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
8000 MHz	INTERCEPT (mV)	4996.2	350	729	1049	1435	1766	2094	2467	2788	3182	3575	3957	4293	4677	4976	Measured Value (mV)
	SLOPE (mV/dB)	71.67	12	33	-5	22	-5	-35	-21	-58	-23	12	36	13	39	-20	Error (mV)
			0.17	0.46	-0.08	0.31	-0.07	-0.50	-0.29	-0.81	-0.31	0.17	0.50	0.19	0.55	-0.28	LINEARITY ERROR (dB)
			0.69	0.95	0.39	0.74	0.34	-0.11	0.06	-0.49	-0.02	0.43	0.73	0.39	0.72	-0.14	ACCURACY ERROR (dB)
9000 MHz	INTERCEPT (mV)	4995.7	381	756	1080	1460	1787	2122	2489	2803	3201	3579	3953	4301	4677	4979	Measured Value (mV)
	SLOPE (mV/dB)	71.15	10	29	-3	22	-7	-28	-17	-58	-16	6	25	17	37	-17	Error (mV)
			0.14	0.41	-0.04	0.30	-0.10	-0.39	-0.23	-0.82	-0.23	0.09	0.34	0.24	0.52	-0.23	LINEARITY ERROR (dB)
			1.12	1.33	0.82	1.09	0.63	0.27	0.37	-0.28	0.24	0.49	0.67	0.50	0.72	-0.09	ACCURACY ERROR (dB)
10000 MHz	INTERCEPT (mV)	5014.3	378	754	1078	1459	1787	2120	2488	2807	3215	3587	3968	4320	4690	5001	Measured Value (mV)
	SLOPE (mV/dB)	71.53	13	32	-2	21	-8	-33	-23	-61	-11	3	27	21	33	-13	Error (mV)
			0.19	0.44	-0.03	0.30	-0.12	-0.46	-0.32	-0.86	-0.15	0.05	0.37	0.29	0.47	-0.19	LINEARITY ERROR (dB)
			1.08	1.30	0.79	1.08	0.63	0.25	0.35	-0.22	0.44	0.60	0.88	0.76	0.90	0.21	ACCURACY ERROR (dB)
11000 MHz	INTERCEPT (mV)	5015.3	345	722	1042	1427	1757	2086	2461	2790	3211	3578	3963	4320	4685	4998	Measured Value (mV)
	SLOPE (mV/dB)	72.15	20	36	-5	19	-11	-43	-29	-61	0	6	30	26	30	-17	Error (mV)
			0.27	0.50	-0.07	0.27	-0.16	-0.60	-0.40	-0.84	-0.01	0.08	0.42	0.36	0.42	-0.24	LINEARITY ERROR (dB)
			0.62	0.85	0.29	0.63	0.21	-0.23	-0.02	-0.46	0.38	0.47	0.81	0.76	0.83	0.17	ACCURACY ERROR (dB)
12000 MHz	INTERCEPT (mV)	4996.7	309	684	1001	1388	1723	2049	2430	2762	3178	3557	3942	4294	4670	4978	Measured Value (mV)
	SLOPE (mV/dB)	72.50	25	38	-8	16	-11	-48	-29	-60	-6	10	33	22	36	-19	Error (mV)
			0.35	0.52	-0.11	0.23	-0.15	-0.66	-0.40	-0.82	-0.08	0.14	0.45	0.31	0.49	-0.26	LINEARITY ERROR (dB)
			0.12	0.33	-0.28	0.09	-0.26	-0.74	-0.45	-0.85	-0.08	0.18	0.52	0.40	0.62	-0.11	ACCURACY ERROR (dB)
13000 MHz	INTERCEPT (mV)	4986.6	303	677	994	1379	1716	2044	2426	2749	3153	3553	3929	4281	4663	4975	Measured Value (mV)
	SLOPE (mV/dB)	72.46	26	38	-7	16	-10	-44	-24	-64	-22	16	29	19	39	-12	Error (mV)
			0.36	0.53	-0.10	0.21	-0.14	-0.61	-0.34	-0.88	-0.30	0.22	0.41	0.26	0.53	-0.16	LINEARITY ERROR (dB)
			0.04	0.23	-0.37	-0.03	-0.36	-0.81	-0.51	-1.03	-0.42	0.12	0.34	0.22	0.52	-0.15	ACCURACY ERROR (dB)
14000 MHz	INTERCEPT (mV)	5042	356	736	1056	1437	1767	2108	2481	2801	3220	3602	3982	4342	4711	5035	Measured Value (mV)
	SLOPE (mV/dB)	72.43	22	40	-3	16	-16	-37	-26	-68	-11	9	26	24	31	-7	Error (mV)
			0.30	0.55	-0.03	0.23	-0.22	-0.51	-0.36	-0.94	-0.16	0.12	0.36	0.33	0.43	-0.10	LINEARITY ERROR (dB)
			0.78	1.05	0.49	0.77	0.35	0.08	0.25	-0.31	0.51	0.80	1.08	1.07	1.19	0.68	ACCURACY ERROR (dB)
15000 MHz	INTERCEPT (mV)	4976.1	310	691	1007	1397	1731	2063	2442	2747	3137	3552	3916	4270	4656	4973	Measured Value (mV)
	SLOPE (mV/dB)	72.03	16	37	-7	22	-4	-32	-13	-68	-38	16	20	14	40	-3	Error (mV)
			0.22	0.51	-0.10	0.31	-0.05	-0.44	-0.18	-0.95	-0.53	0.23	0.28	0.20	0.56	-0.04	LINEARITY ERROR (dB)
			0.14	0.42	-0.19	0.22	-0.15	-0.54	-0.29	-1.06	-0.65	0.11	0.16	0.07	0.43	-0.18	ACCURACY ERROR (dB)
16000 MHz	INTERCEPT (mV)	4958	303	674	991	1378	1715	2045	2429	2752	3151	3543	3903	4242	4632	4942	Measured Value (mV)
	SLOPE (mV/dB)	71.89	18	30	-13	15	-8	-37	-13	-49	-10	23	23	3	33	-16	Error (mV)
			0.25	0.41	-0.18	0.20	-0.11	-0.52	-0.18	-0.68	-0.13	0.32	0.33	0.04	0.47	-0.22	LINEARITY ERROR (dB)
			0.04	0.19	-0.41	-0.05	-0.37	-0.79	-0.47	-0.99	-0.45	-0.01	-0.02	-0.32	0.09	-0.61	ACCURACY ERROR (dB)
17000 MHz	INTERCEPT (mV)	5004.1	315	688	1005	1395	1731	2066	2452	2783	3191	3562	3936	4293	4672	4993	Measured Value (mV)
	SLOPE (mV/dB)	72.47	22	32	-13	15	-12	-39	-16	-47	-1	7	19	14	30	-11	Error (mV)
			0.30	0.45	-0.18	0.20	-0.16	-0.54	-0.21	-0.65	-0.02	0.10	0.26	0.19	0.42	-0.15	LINEARITY ERROR (dB)
			0.21	0.38	-0.22	0.19	-0.15	-0.50	-0.15	-0.56	0.10	0.25	0.44	0.39	0.65	0.10	ACCURACY ERROR (dB)
18000 MHz	INTERCEPT (mV)	4963.6	270	632	953	1338	1681	2008	2397	2743	3143	3529	3892	4249	4635	4947	Measured Value (mV)
	SLOPE (mV/dB)	72.69	31	30	-13	9	-12	-48	-22	-40	-3	19	19	12	35	-17	Error (mV)
			0.43	0.41	-0.17	0.12	-0.16	-0.66	-0.31	-0.55	-0.05	0.26	0.26	0.17	0.48	-0.23	LINEARITY ERROR (dB)
			-0.42	-0.39	-0.94	-0.60	-0.84	-1.31	-0.91	-1.11	-0.56	-0.21	-0.17	-0.22	0.13	-0.54	ACCURACY ERROR (dB)
	Flatness	+/- dB	0.77	0.86	0.88	0.85	0.74	0.79	0.64	0.44	0.58	0.51	0.62	0.69	0.55	0.65	

-65dBm mV-Out	
381	Max
270	Min





LOG TRANSFER WITH FREQUENCY
MODEL: ERDLVA-8G18G-65-70MV-2
TESTED BY: JIM HOPSON
DATE: 7/31/25
SERIAL NO: PL53799-RF

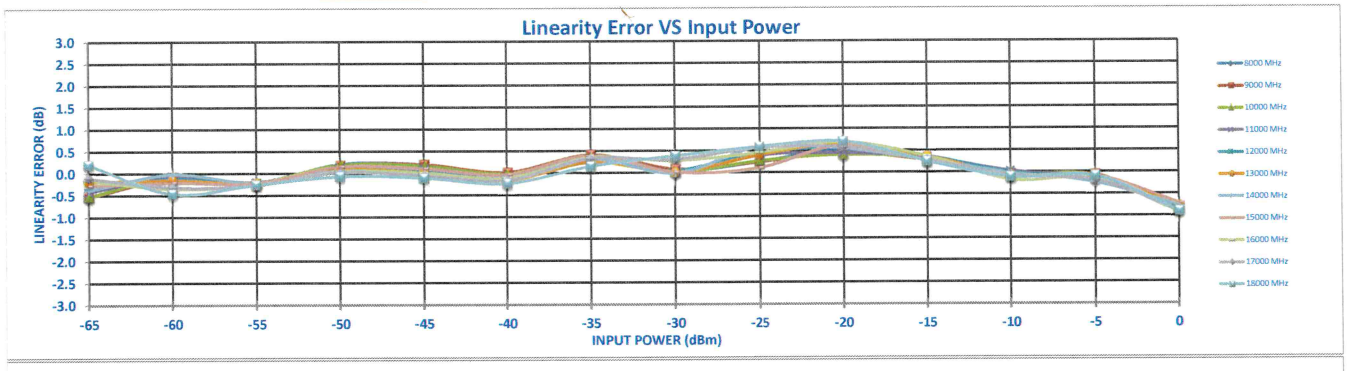
Test Temp: +85C

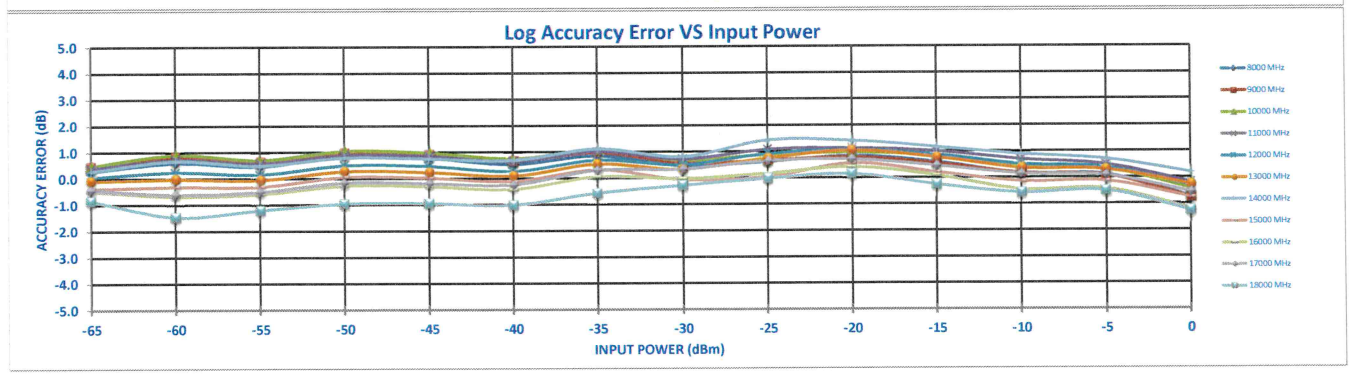
PLANAR MONOLITHICS INDUSTRIES
4921 Robert J. Mathews Parkway STE 1
TEL: 916-542-1401 FAX: 301-662-1731
EMAIL: SALES@PMI-RF.COM
ISO 9001:2000 CERTIFIED

DC Offset= 0.060

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
8000 MHz	INTERCEPT (mV)	4730.6	278	644	978	1347	1686	2012	2377	2694	3048	3406	3733	4046	4386	4671	Measured Value (mV)
	SLOPE (mV/dB)	67.96	-35	-9	-15	14	14	0	25	2	16	35	22	-5	-5	-60	Error (mV)
			-0.52	-0.13	-0.22	0.21	0.20	0.00	0.37	0.03	0.24	0.51	0.32	-0.07	-0.07	-0.88	LINEARITY ERROR (dB)
			0.26	0.59	0.46	0.84	0.77	0.52	0.84	0.46	0.62	0.83	0.59	0.15	0.11	-0.74	ACCURACY ERROR (dB)
9000 MHz	INTERCEPT (mV)	4726.8	292	659	990	1356	1695	2021	2386	2702	3051	3403	3730	4047	4384	4669	Measured Value (mV)
	SLOPE (mV/dB)	67.67	-36	-8	-15	13	13	1	28	5	16	30	18	-3	-4	-58	Error (mV)
			-0.53	-0.11	-0.22	0.19	0.20	0.02	0.41	0.08	0.24	0.44	0.27	-0.05	-0.07	-0.85	LINEARITY ERROR (dB)
			0.47	0.81	0.63	0.97	0.91	0.65	0.97	0.58	0.66	0.79	0.55	0.17	0.08	-0.77	ACCURACY ERROR (dB)
10000 MHz	INTERCEPT (mV)	4747.3	293	665	995	1362	1700	2027	2392	2709	3066	3415	3749	4067	4401	4692	Measured Value (mV)
	SLOPE (mV/dB)	67.98	-36	-4	-14	14	12	-1	24	1	18	27	21	-1	-6	-55	Error (mV)
			-0.53	-0.05	-0.20	0.20	0.17	-0.02	0.35	0.01	0.27	0.40	0.31	-0.01	-0.09	-0.81	LINEARITY ERROR (dB)
			0.48	0.90	0.71	1.05	0.98	0.74	1.06	0.68	0.88	0.96	0.83	0.46	0.33	-0.43	ACCURACY ERROR (dB)
11000 MHz	INTERCEPT (mV)	4765	286	653	986	1351	1691	2020	2389	2712	3080	3426	3761	4082	4412	4709	Measured Value (mV)
	SLOPE (mV/dB)	68.47	-29	-4	-13	9	7	-6	20	1	27	30	23	2	-11	-56	Error (mV)
			-0.42	-0.06	-0.20	0.14	0.10	-0.09	0.30	0.01	0.39	0.44	0.34	0.02	-0.16	-0.82	LINEARITY ERROR (dB)
			0.38	0.73	0.58	0.89	0.85	0.64	1.02	0.72	1.08	1.12	1.00	0.68	0.49	-0.19	ACCURACY ERROR (dB)
12000 MHz	INTERCEPT (mV)	4759.5	263	620	957	1324	1665	1994	2366	2697	3069	3421	3752	4070	4404	4700	Measured Value (mV)
	SLOPE (mV/dB)	68.86	-21	-8	-15	7	4	-11	17	3	31	39	25	-1	-11	-59	Error (mV)
			-0.30	-0.12	-0.22	0.11	0.06	-0.16	0.24	0.05	0.45	0.56	0.37	-0.01	-0.16	-0.86	LINEARITY ERROR (dB)
			0.04	0.24	0.15	0.50	0.47	0.26	0.68	0.50	0.92	1.05	0.87	0.50	0.37	-0.32	ACCURACY ERROR (dB)
13000 MHz	INTERCEPT (mV)	4756	254	602	943	1309	1649	1982	2356	2685	3057	3420	3745	4060	4399	4702	Measured Value (mV)
	SLOPE (mV/dB)	69.06	-13	-11	-15	6	1	-12	17	1	27	45	25	-5	-12	-54	Error (mV)
			-0.19	-0.15	-0.22	0.08	0.01	-0.17	0.25	0.01	0.40	0.65	0.36	-0.08	-0.17	-0.78	LINEARITY ERROR (dB)
			-0.09	-0.02	-0.05	0.28	0.24	0.09	0.53	0.33	0.75	1.04	0.77	0.36	0.30	-0.29	ACCURACY ERROR (dB)
14000 MHz	INTERCEPT (mV)	4787.6	279	649	980	1344	1684	2023	2396	2718	3104	3446	3772	4096	4426	4734	Measured Value (mV)
	SLOPE (mV/dB)	68.96	-26	-1	-15	4	-1	-6	22	-1	40	38	19	-2	-17	-54	Error (mV)
			-0.38	-0.02	-0.22	0.06	-0.01	-0.09	0.32	-0.01	0.58	0.54	0.27	-0.03	-0.24	-0.78	LINEARITY ERROR (dB)
			0.28	0.67	0.49	0.79	0.74	0.68	1.12	0.81	1.43	1.41	1.16	0.88	0.69	0.18	ACCURACY ERROR (dB)
15000 MHz	INTERCEPT (mV)	4718.5	234	582	925	1294	1634	1968	2341	2658	3008	3387	3706	4025	4369	4669	Measured Value (mV)
	SLOPE (mV/dB)	68.70	-19	-14	-15	11	7	-2	27	1	7	43	18	-7	-6	-50	Error (mV)
			-0.27	-0.21	-0.22	0.15	0.10	-0.04	0.39	0.01	0.10	0.62	0.26	-0.09	-0.09	-0.72	LINEARITY ERROR (dB)
			-0.38	-0.31	-0.31	0.06	0.02	-0.12	0.32	-0.07	0.03	0.55	0.20	-0.15	-0.14	-0.77	ACCURACY ERROR (dB)
16000 MHz	INTERCEPT (mV)	4703.9	227	557	906	1271	1612	1947	2323	2661	3017	3377	3698	4004	4349	4640	Measured Value (mV)
	SLOPE (mV/dB)	68.71	-10	-24	-19	3	0	-8	24	19	31	47	25	-13	-11	-64	Error (mV)
			-0.15	-0.35	-0.27	0.04	0.00	-0.12	0.35	0.27	0.45	0.69	0.36	-0.19	-0.16	-0.93	LINEARITY ERROR (dB)
			-0.48	-0.67	-0.59	-0.27	-0.30	-0.42	0.05	-0.02	0.16	0.41	0.08	-0.46	-0.43	-1.19	ACCURACY ERROR (dB)
17000 MHz	INTERCEPT (mV)	4744.1	230	562	912	1279	1620	1959	2340	2685	3050	3397	3723	4045	4384	4683	Measured Value (mV)
	SLOPE (mV/dB)	69.34	-7	-22	-19	2	-4	-12	23	21	39	40	19	-6	-13	-61	Error (mV)
			-0.10	-0.32	-0.27	0.03	-0.06	-0.17	0.33	0.30	0.57	0.57	0.27	-0.08	-0.19	-0.88	LINEARITY ERROR (dB)
			-0.44	-0.60	-0.50	-0.16	-0.19	-0.25	0.30	0.33	0.64	0.70	0.45	0.14	0.08	-0.57	ACCURACY ERROR (dB)
18000 MHz	INTERCEPT (mV)	4697.7	202	503	864	1224	1568	1906	2280	2643	3004	3359	3674	3996	4344	4635	Measured Value (mV)
	SLOPE (mV/dB)	69.38	14	-32	-18	-5	-8	-17	10	27	41	49	17	-8	-7	-63	Error (mV)
			0.20	-0.46	-0.26	-0.07	-0.11	-0.24	0.15	0.38	0.59	0.70	0.24	-0.11	-0.10	-0.90	LINEARITY ERROR (dB)
			-0.84	-1.46	-1.20	-0.96	-0.94	-1.02	-0.57	-0.28	-0.03	0.15	-0.26	-0.57	-0.50	-1.26	ACCURACY ERROR (dB)
	Flatness	+/- dB	0.66	1.18	0.95	1.01	0.96	0.88	0.84	0.55	0.73	0.63	0.71	0.73	0.60	0.72	

-65dBm mV-Out	
293	Max
202	Min

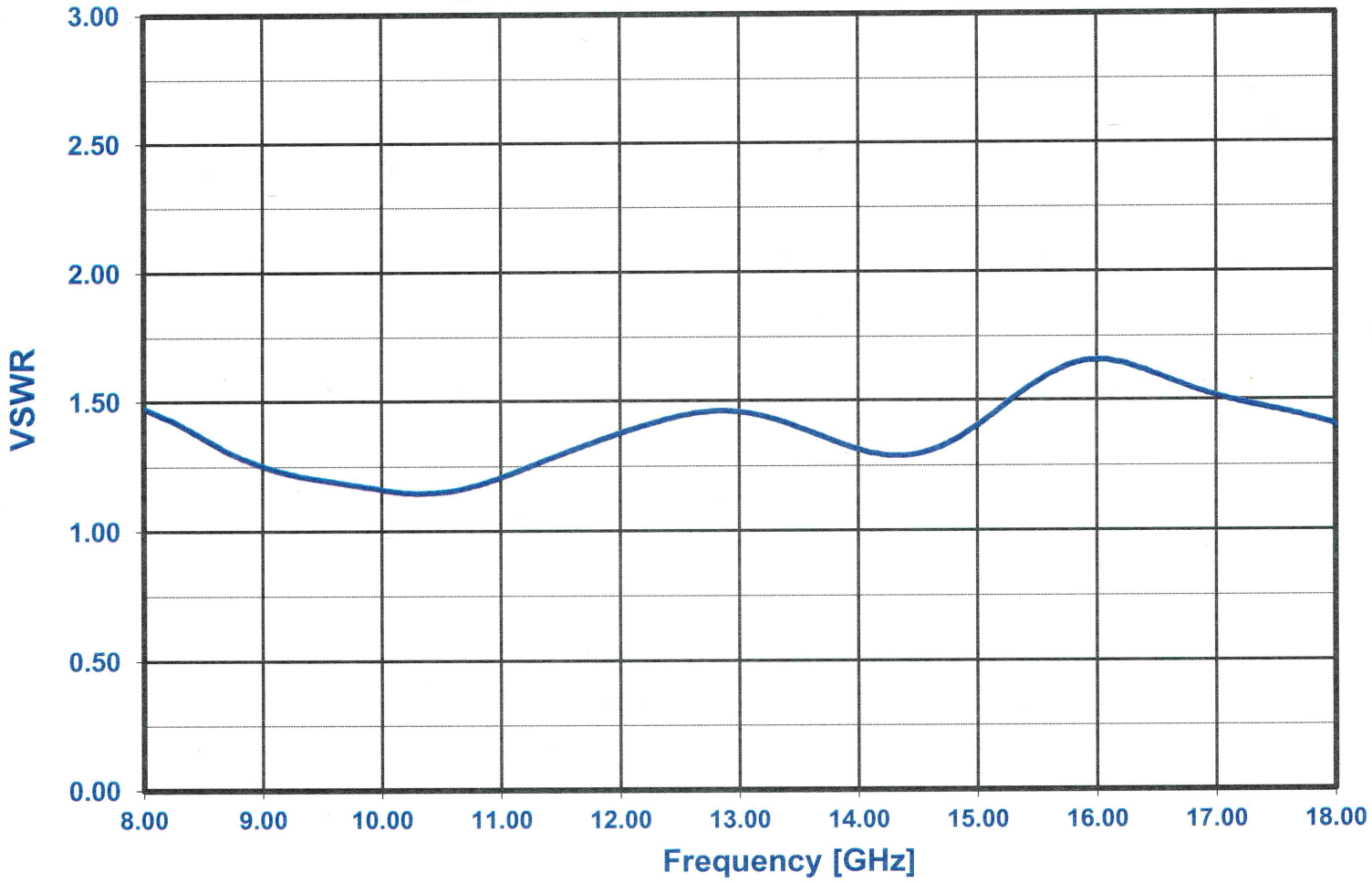




Model Number: ERDLVA-8G18G-65-70MV-2
Serial Number: PL53799

Temperature: +25C

BIT INPUT VSWR GRAPH



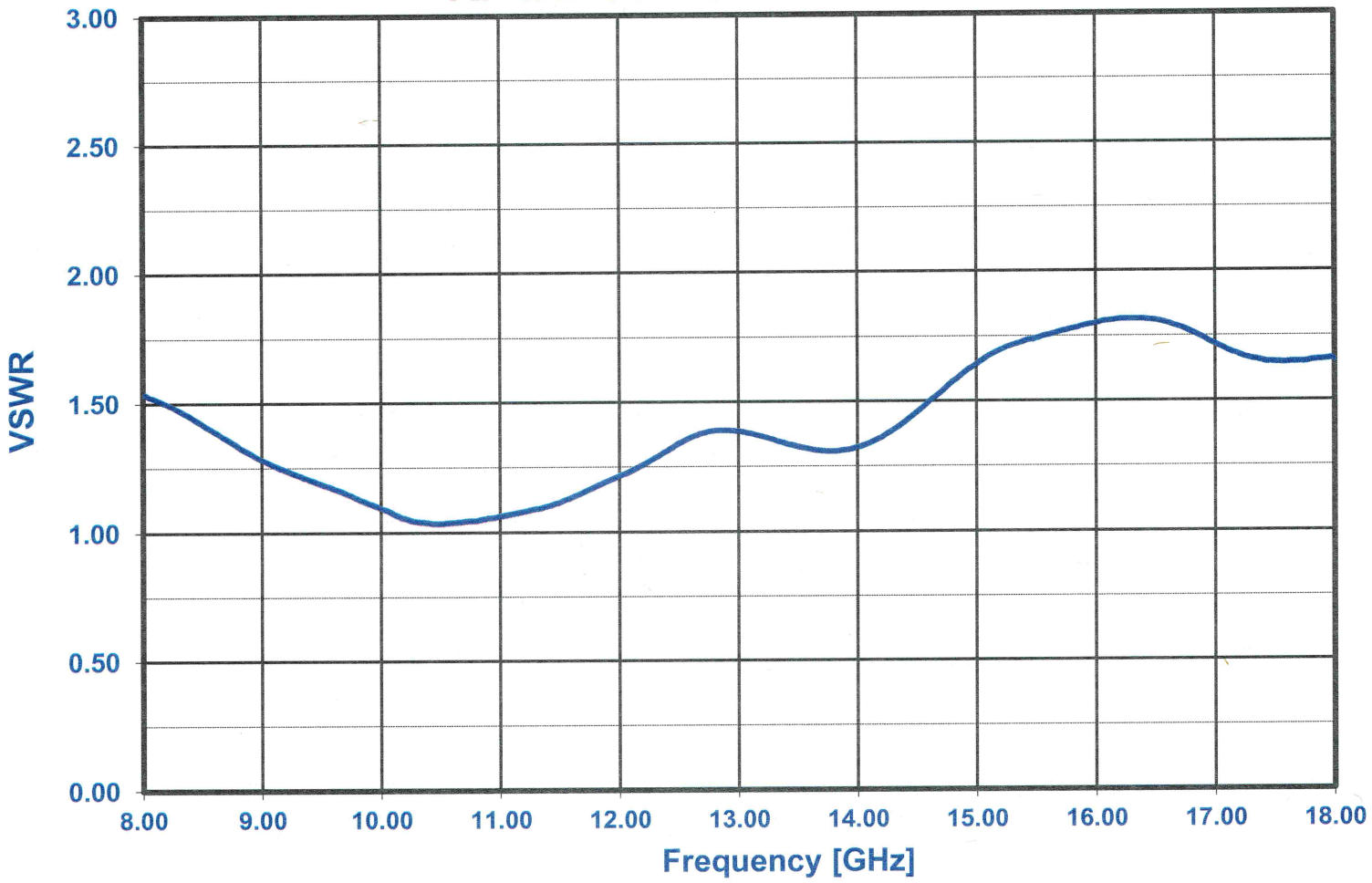
@ -20dBm

Input 1.66:1 Max

Model Number: ERDLVA-8G18G-65-70MV-2
Serial Number: PL53799

Temperature: +25C

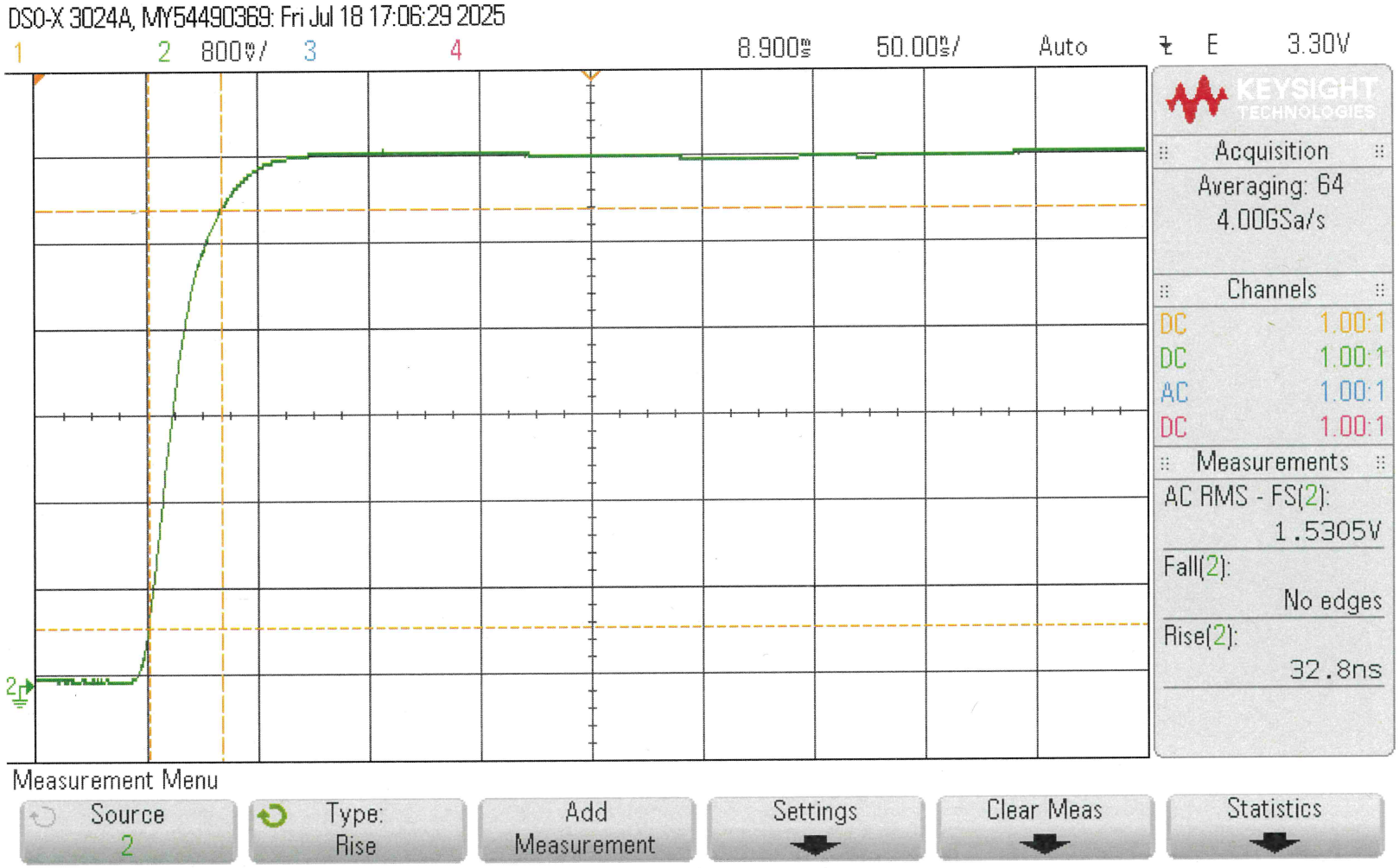
RF INPUT VSWR GRAPH



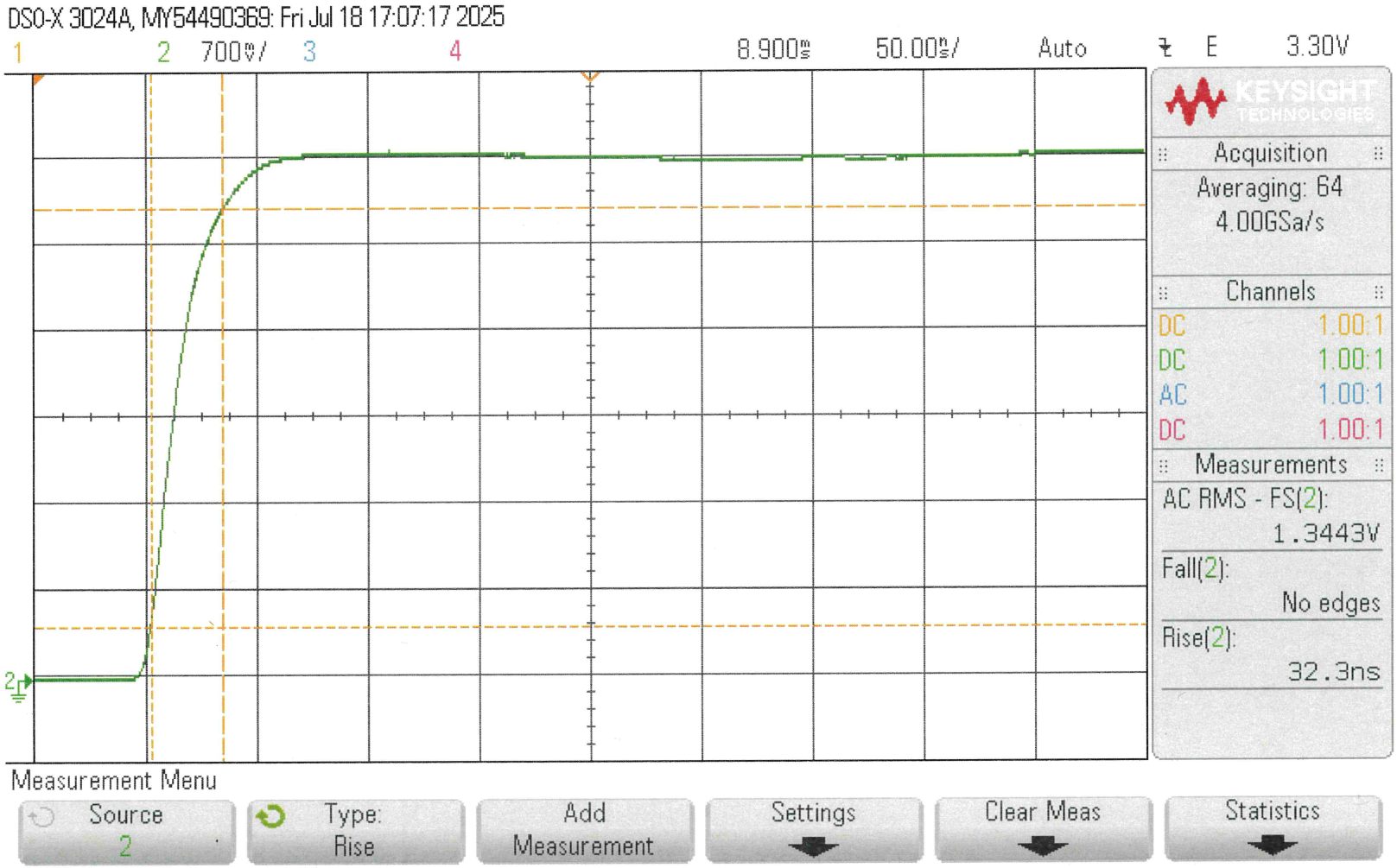
@ -20dBm

Input 1.82:1 Max

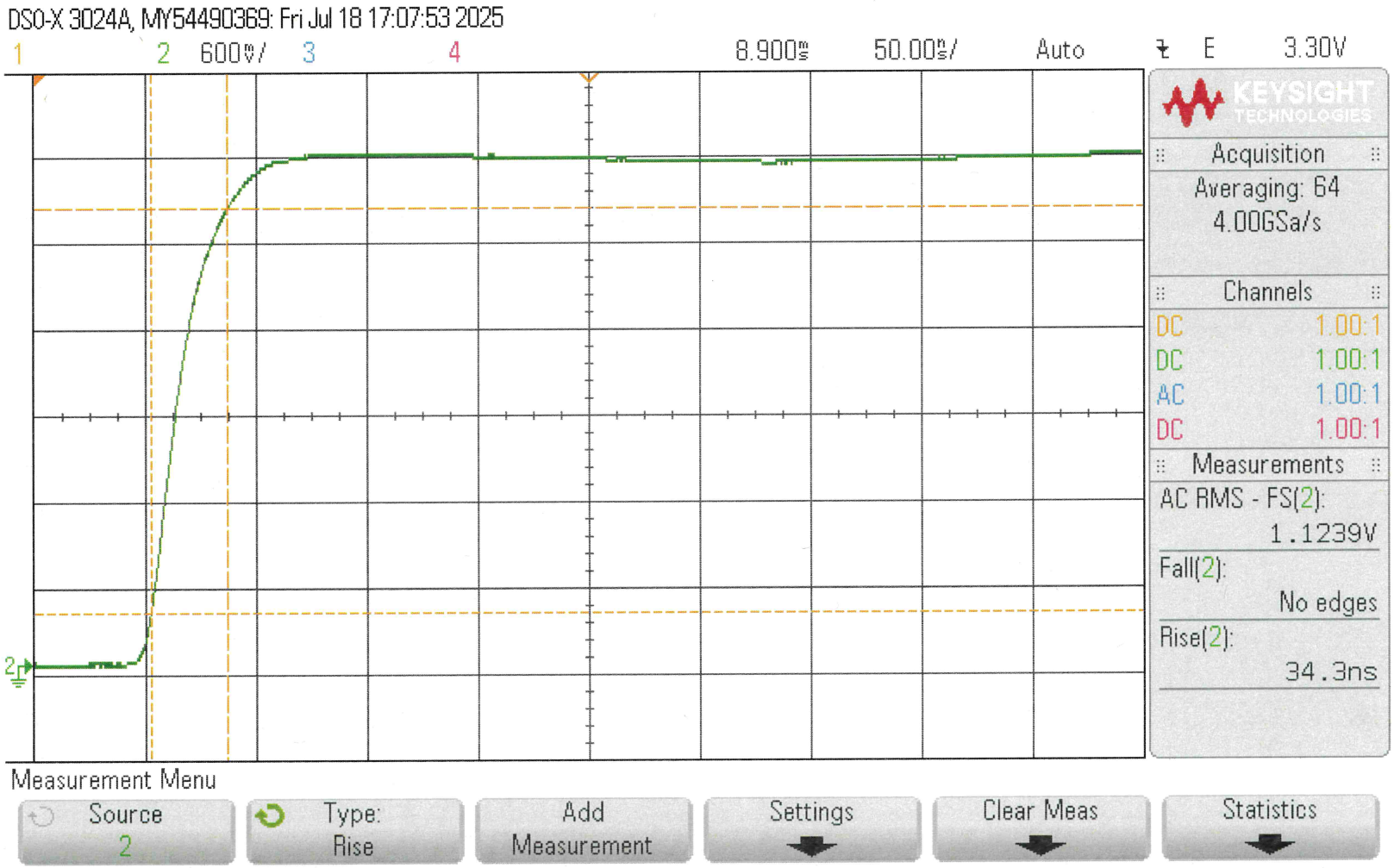
PL53799
settle / Rise 0dbm



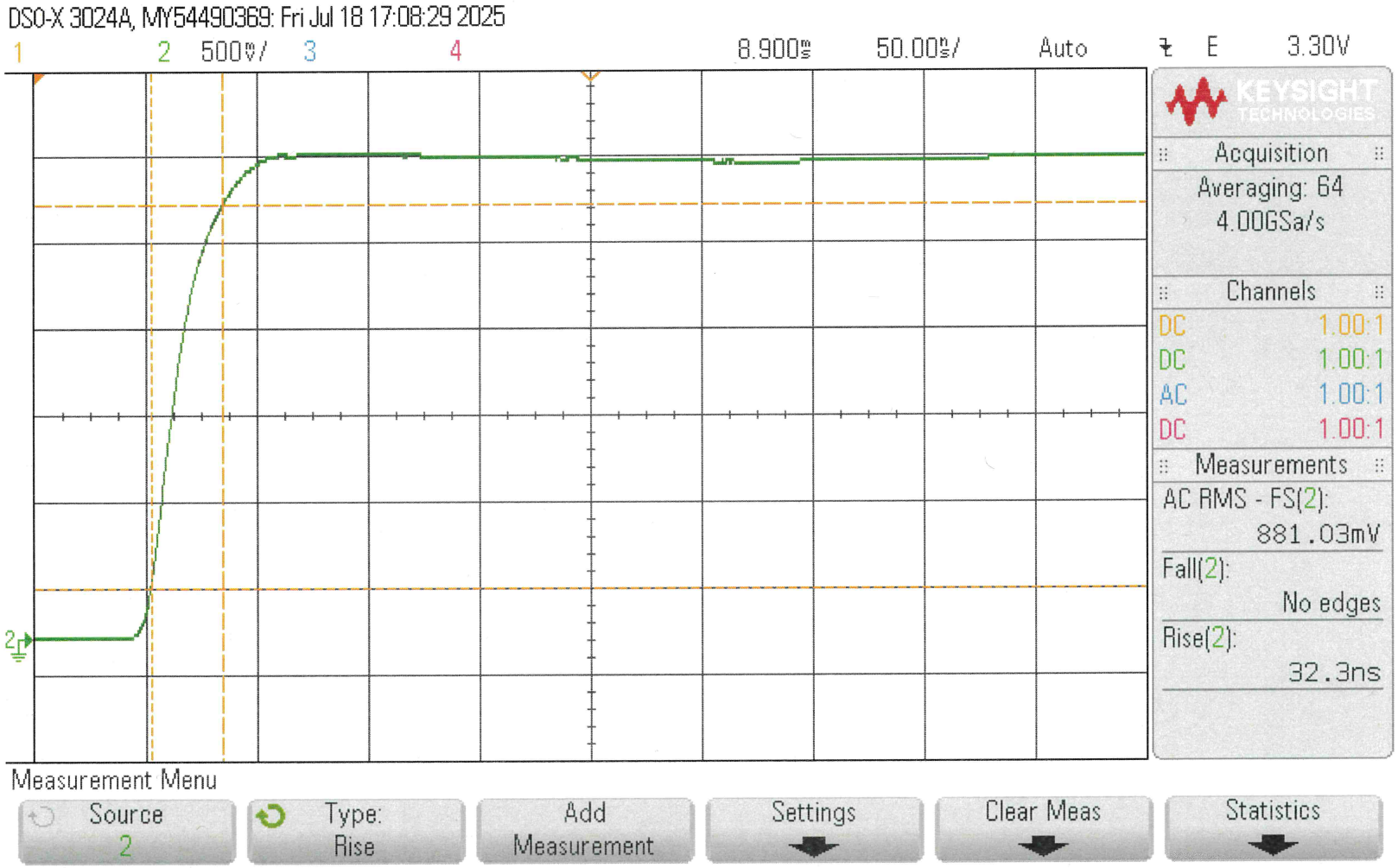
PL53799
settle / Rise -10dbm



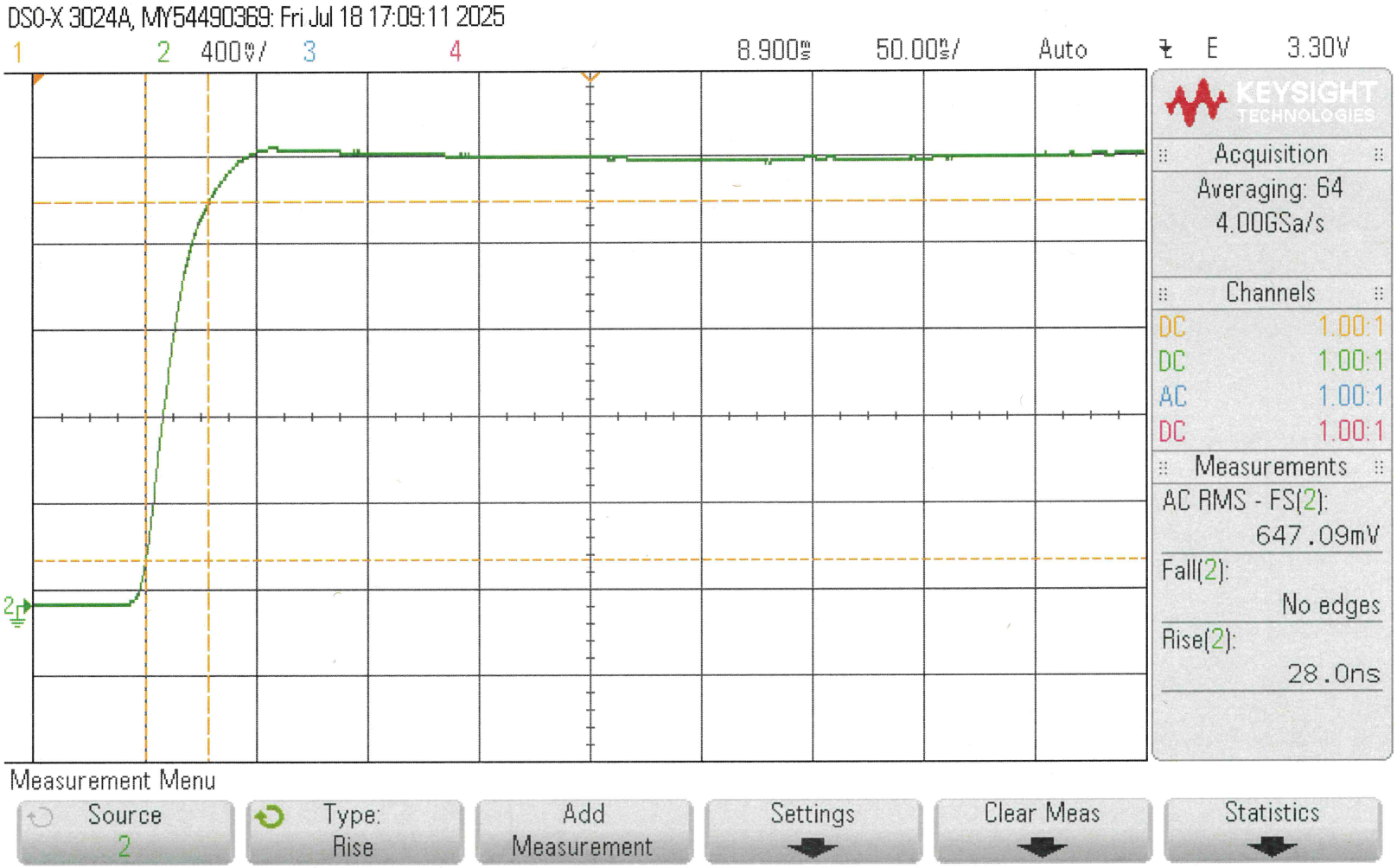
PL53799
settle / Rise -20dbm



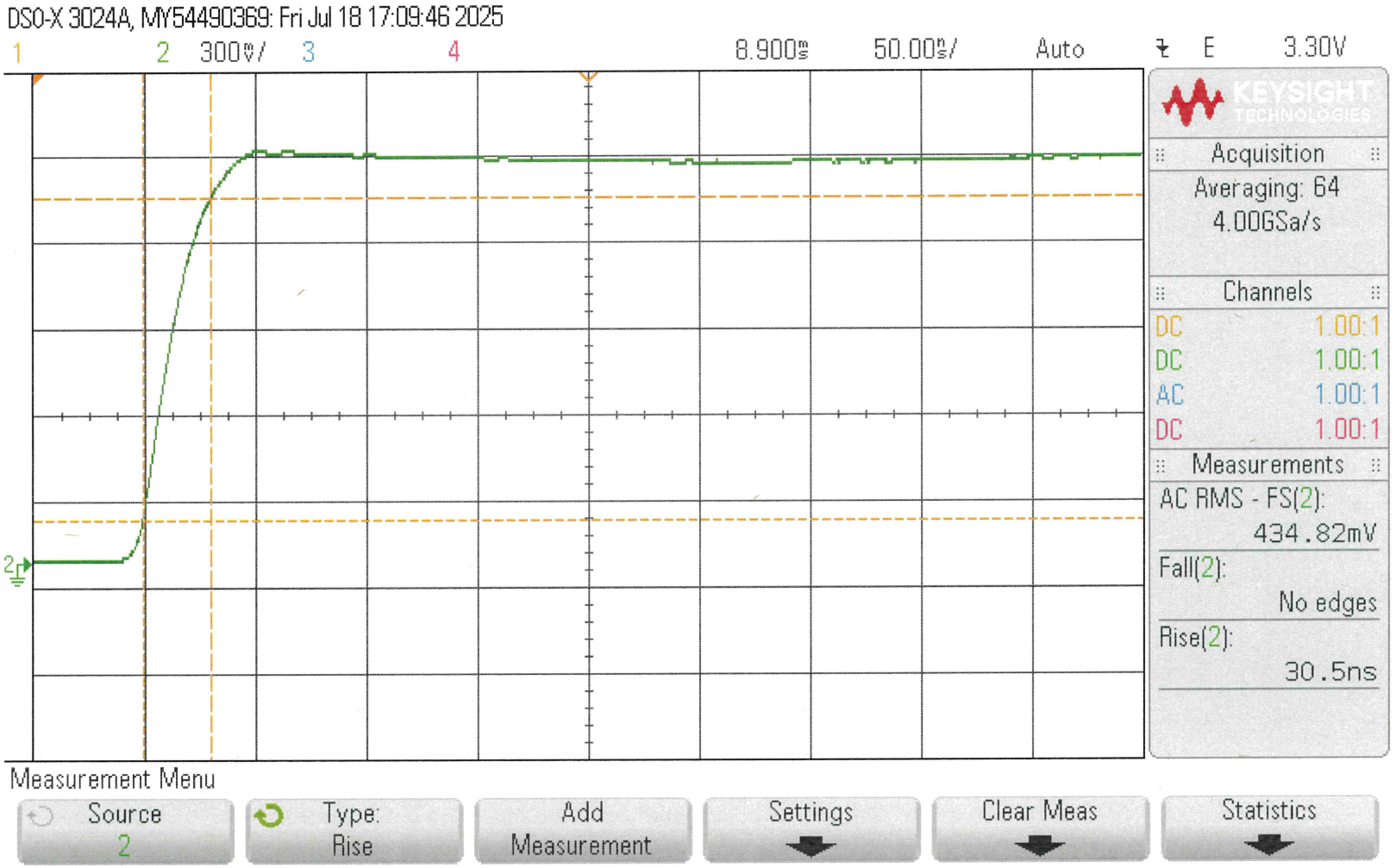
PL53799
settle / Rise -30dbm



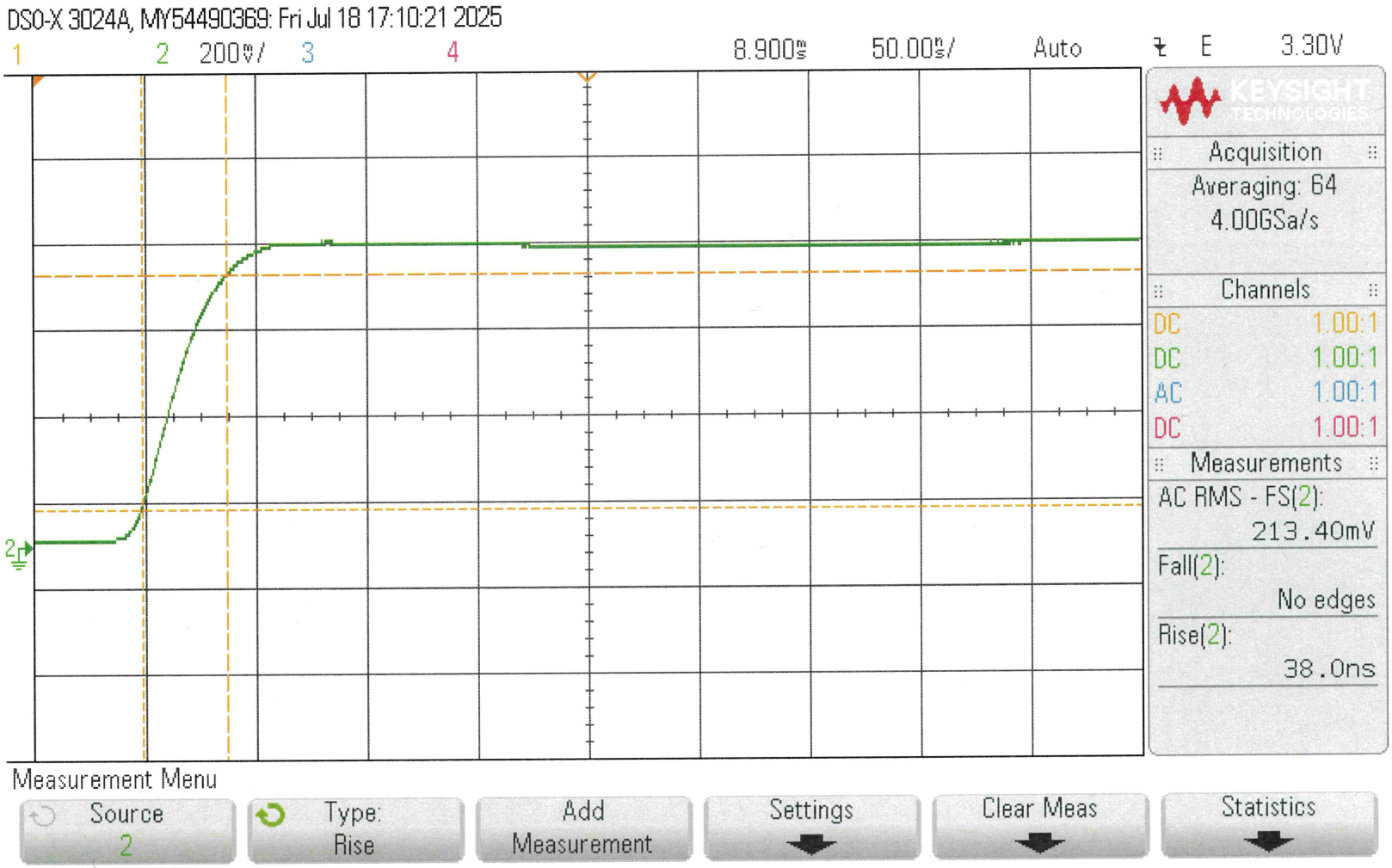
PL53799
settle / Rise -40dbm



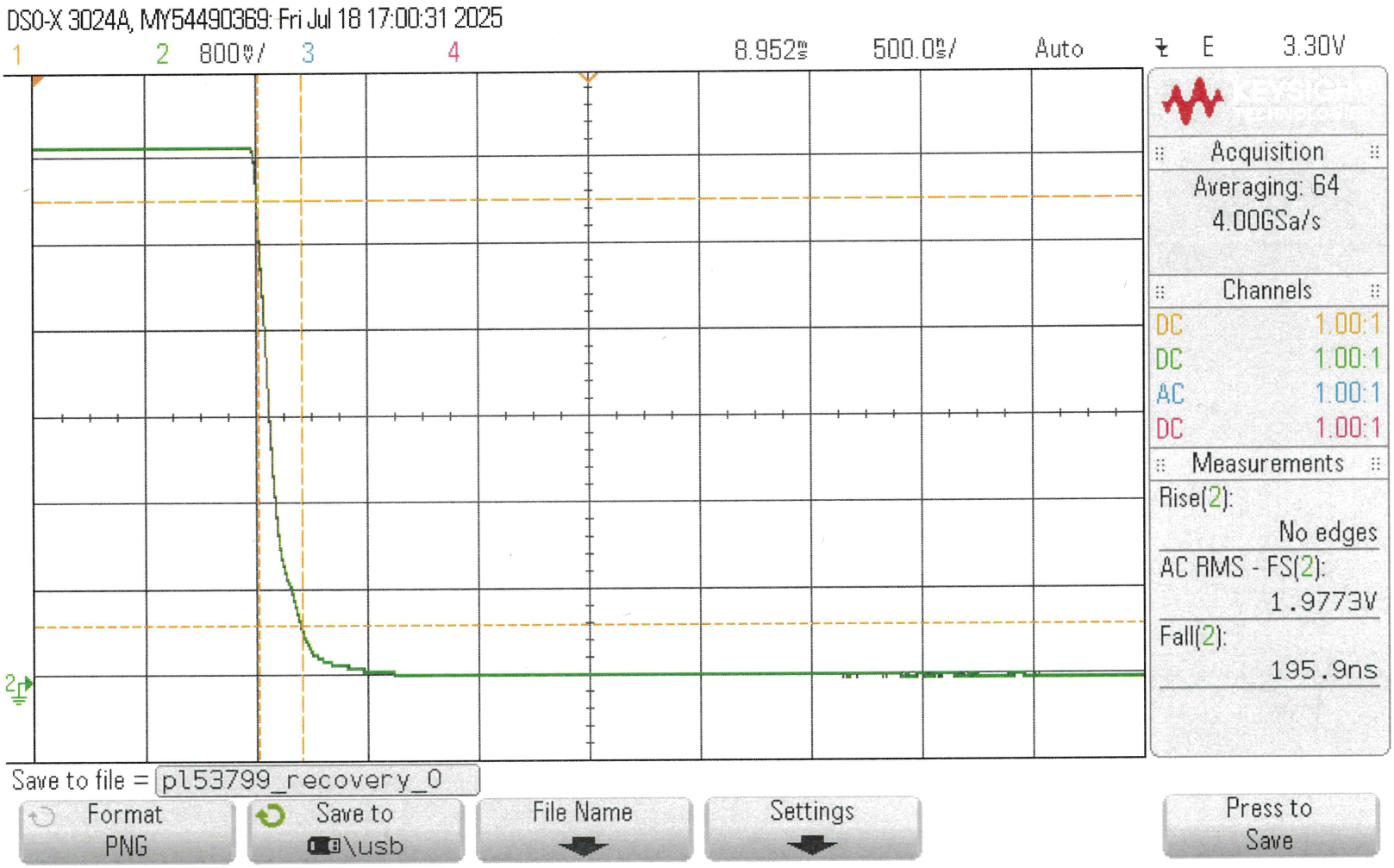
PL53799
settle / Rise -50 dbm



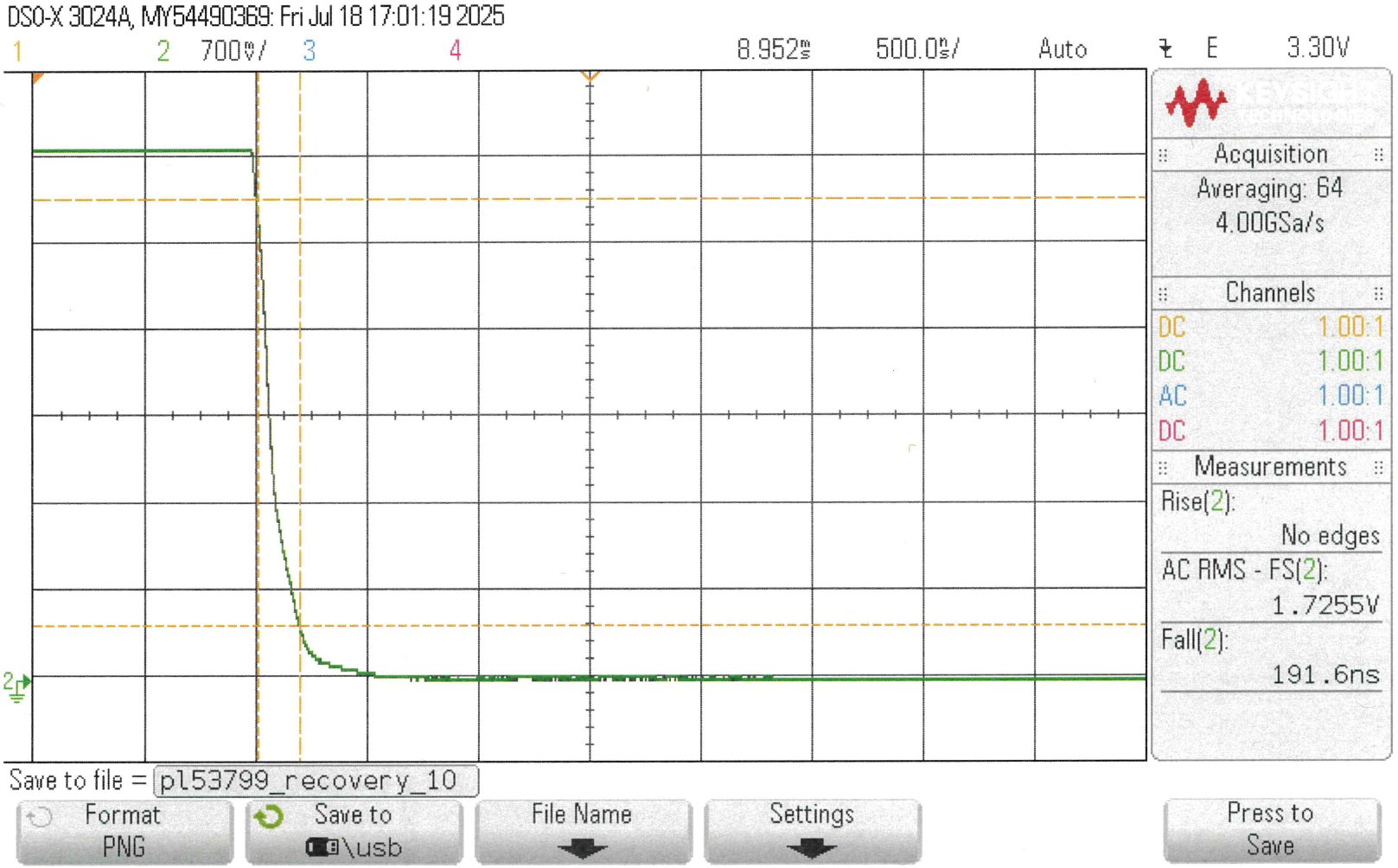
PL53799
Settle / Rise -60dbm



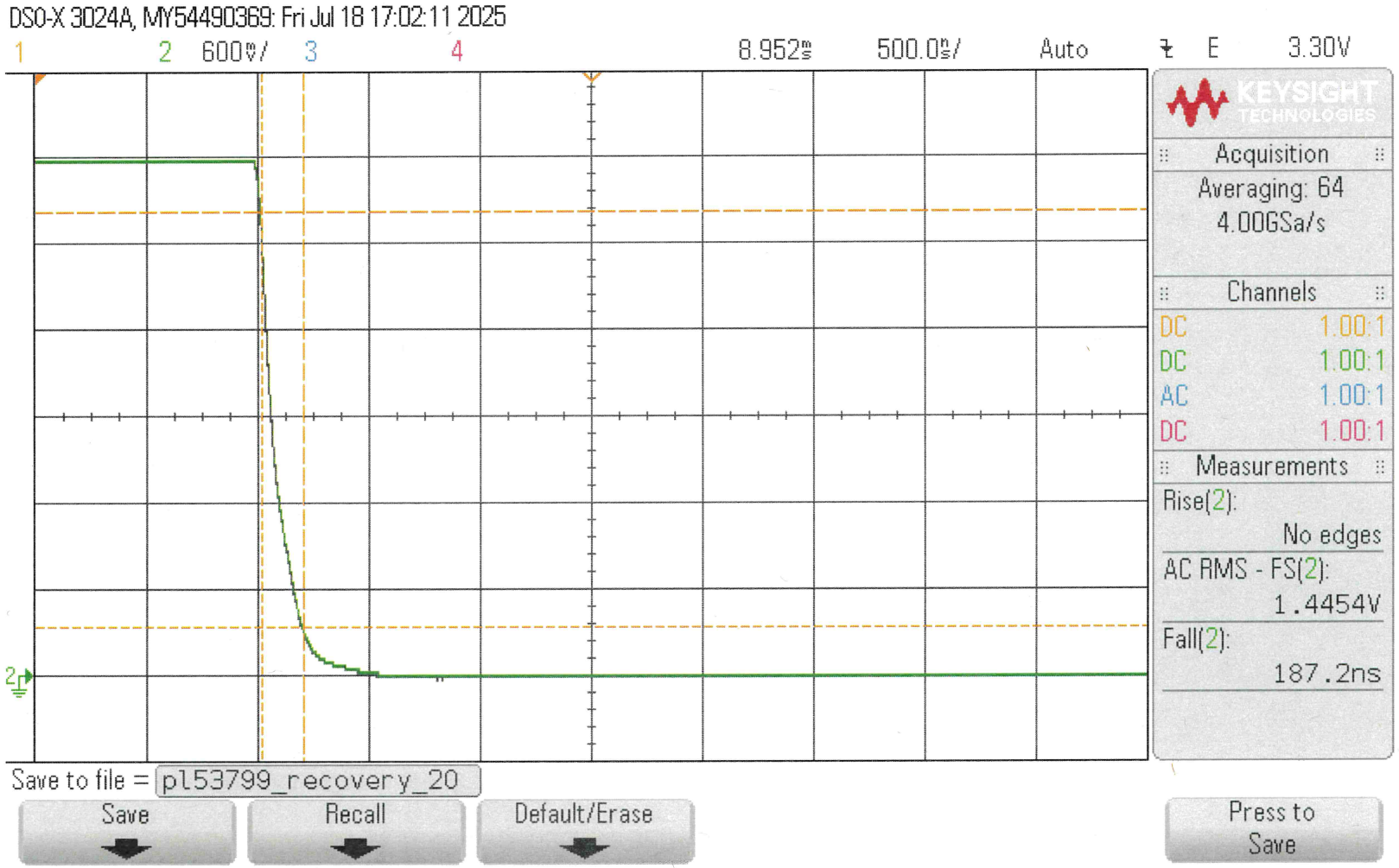
PL53799
Recovery/Fall 0dbm



PL53799
Recovery / Fall -10dbm

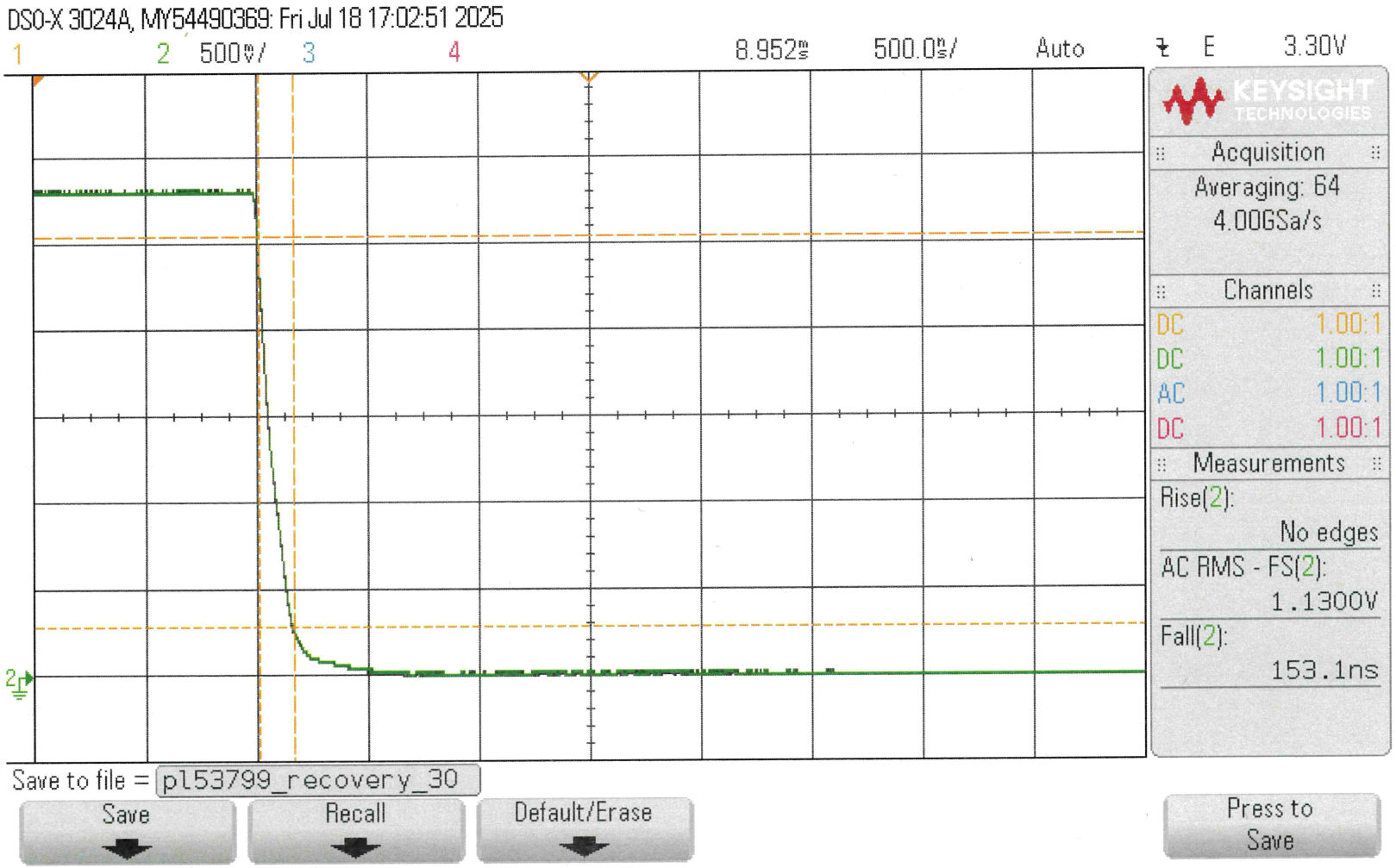


PL53799
Recovery Fall -20dbm

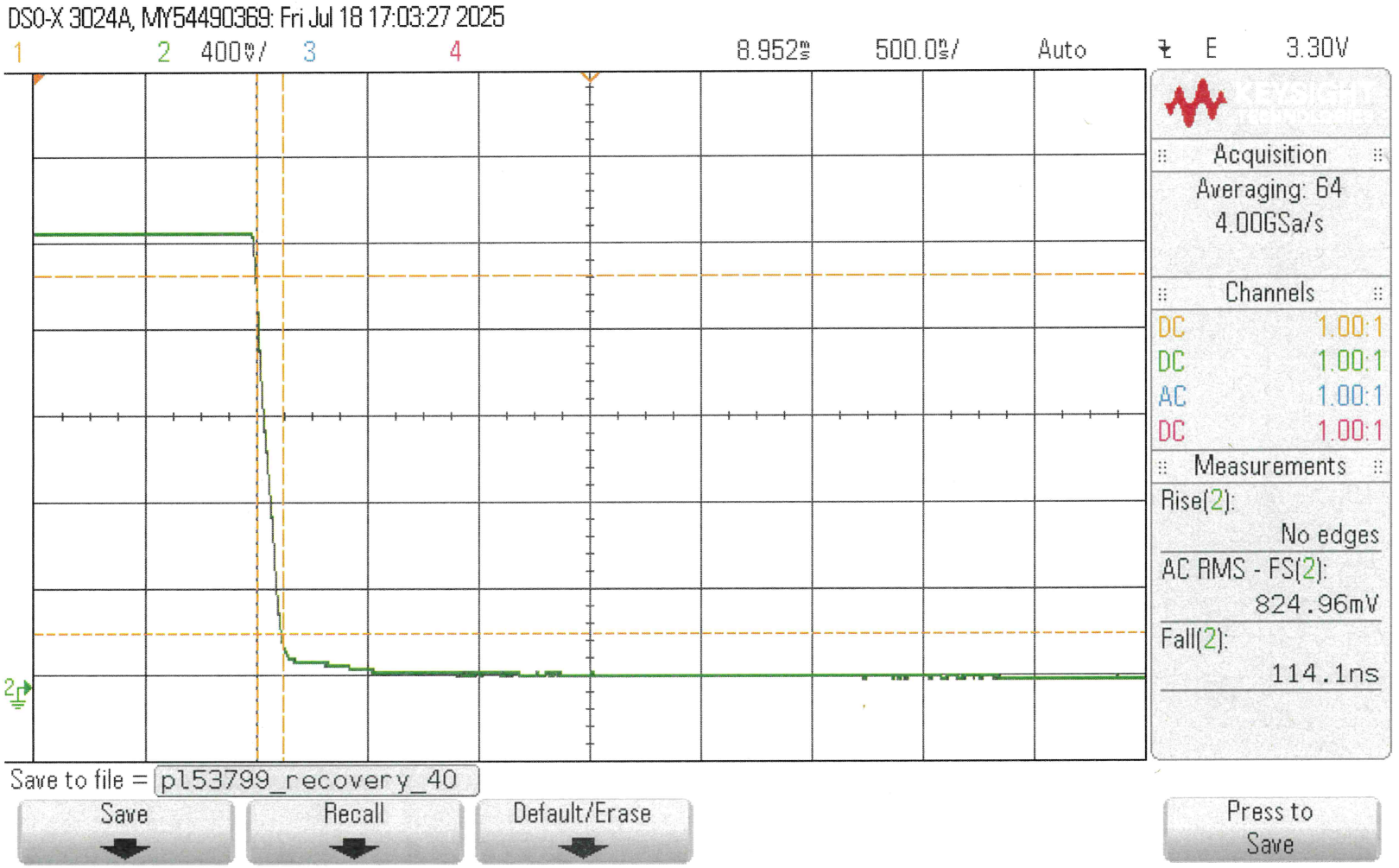


PL53799

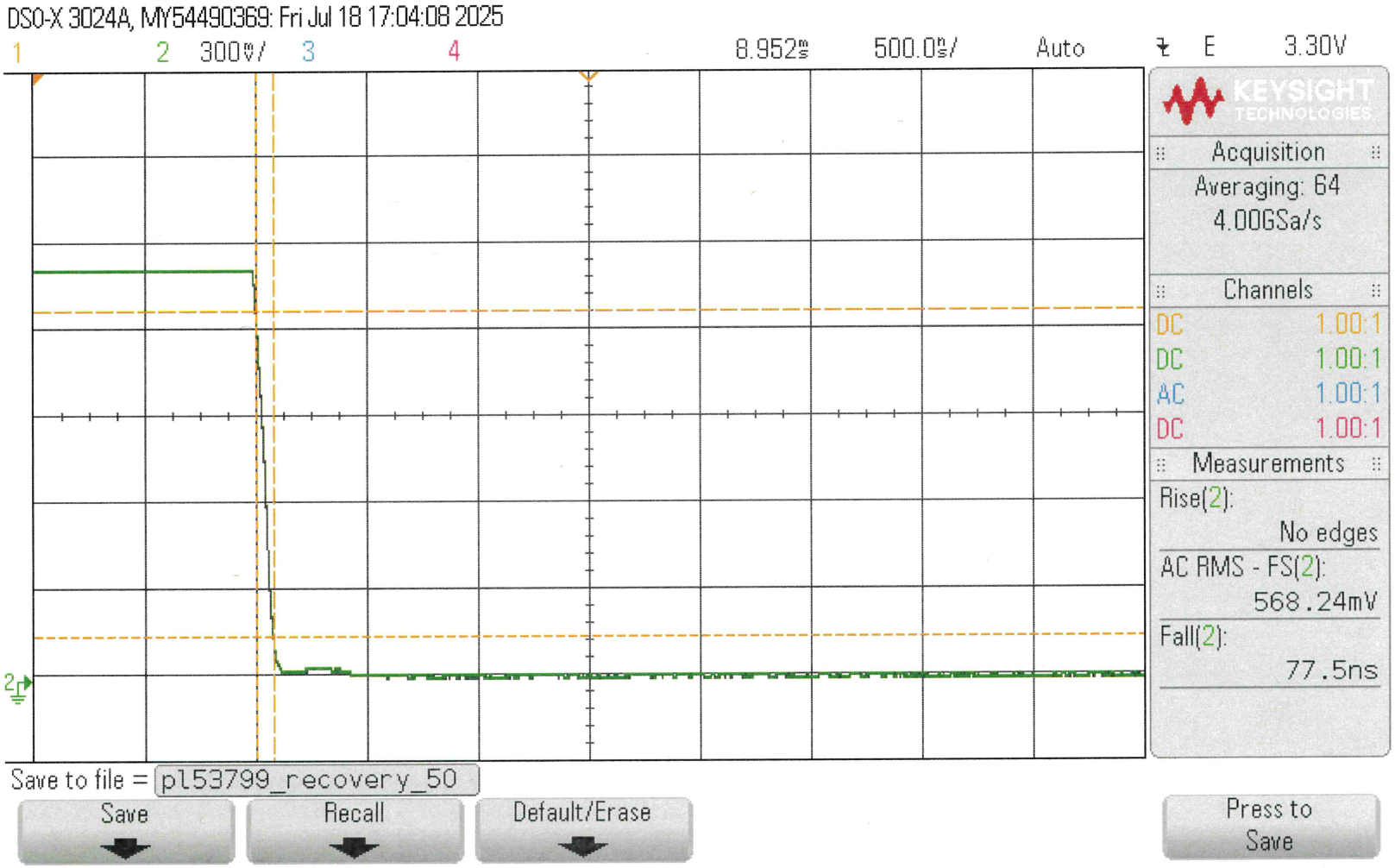
Recovery/Fall -30dbm



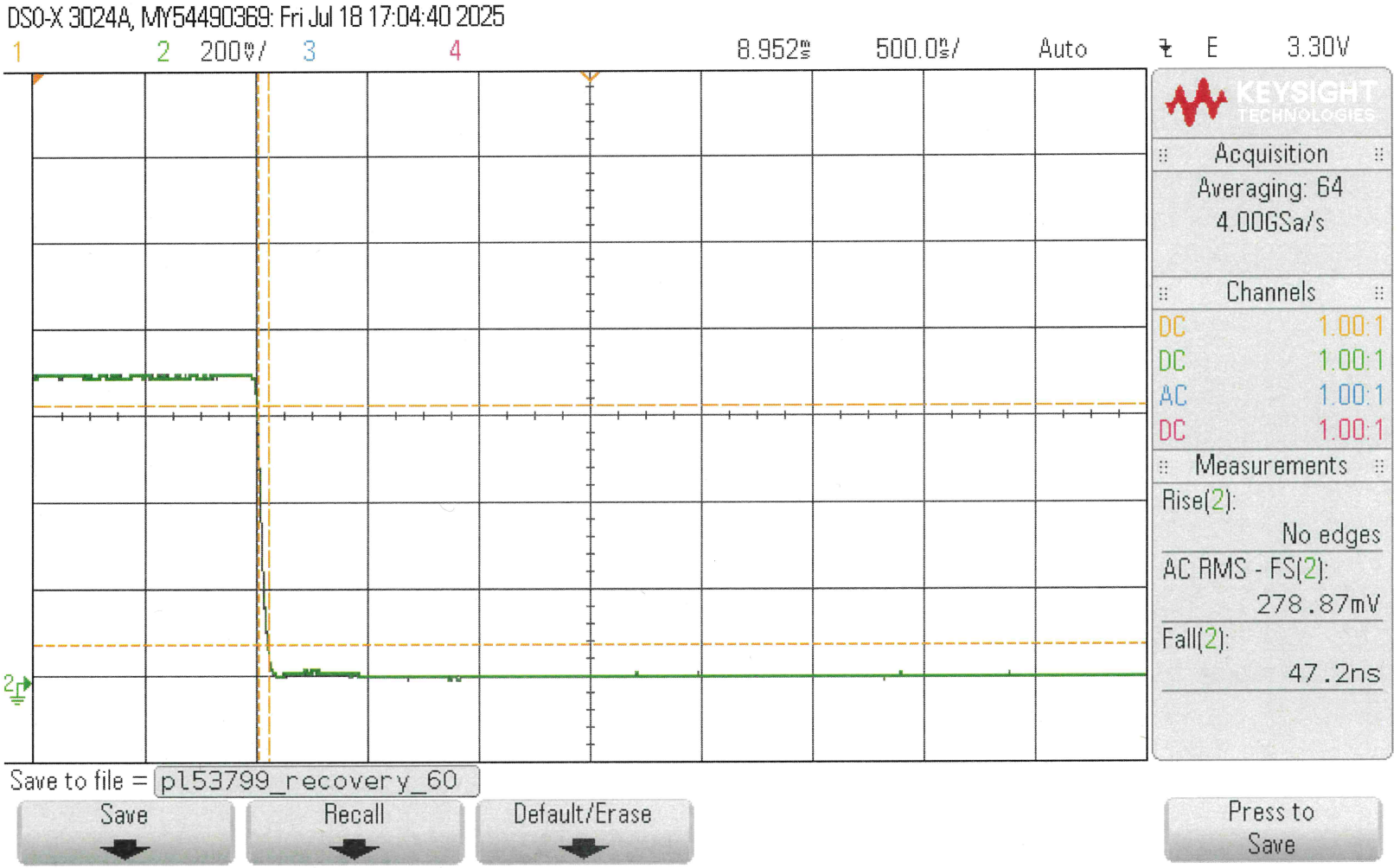
PL 53799
Recovery/Fall -40 dbm



PL53799
Recovery/Fall -50dbm

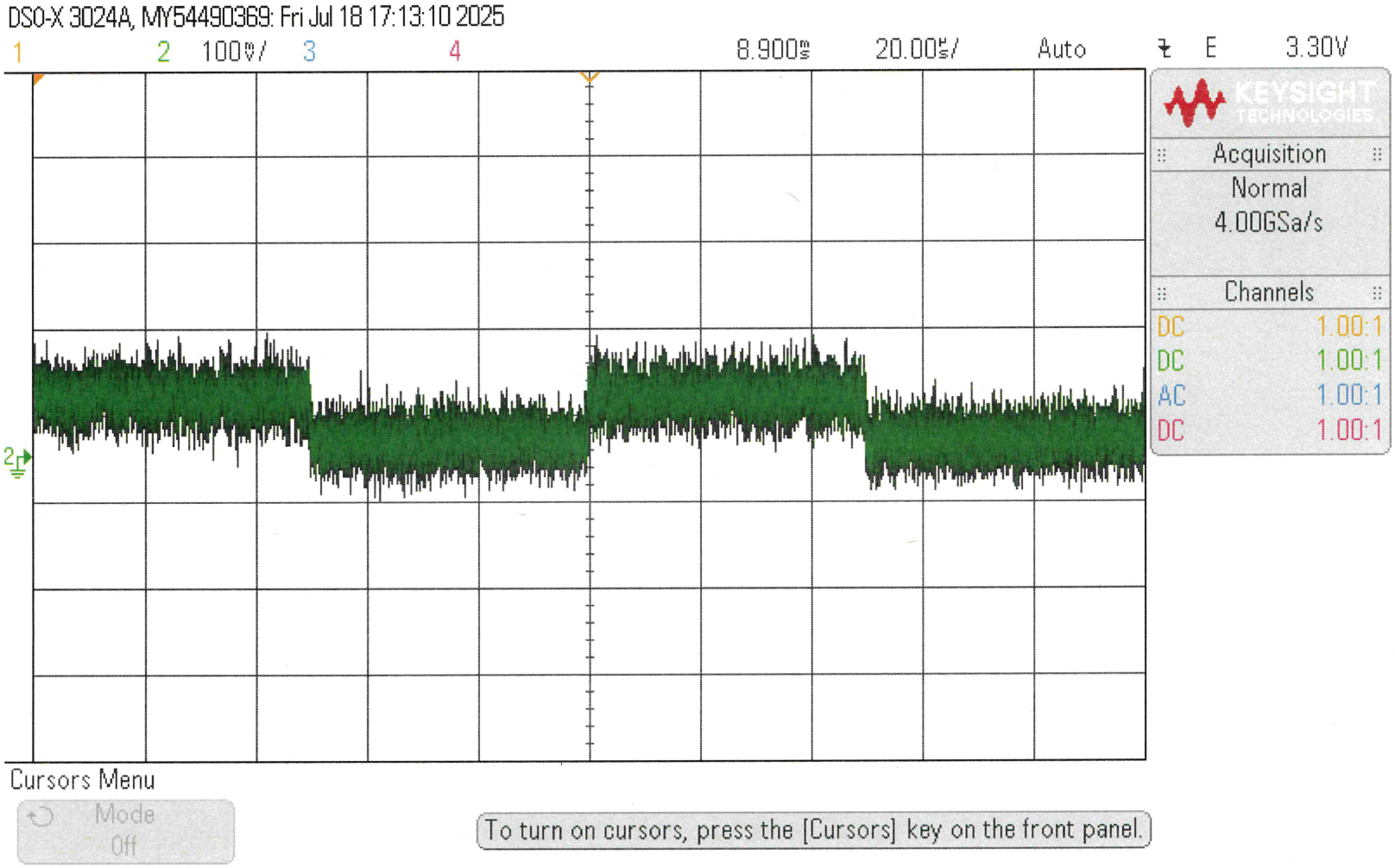


PL53799
Recovery / Fall -60dbm



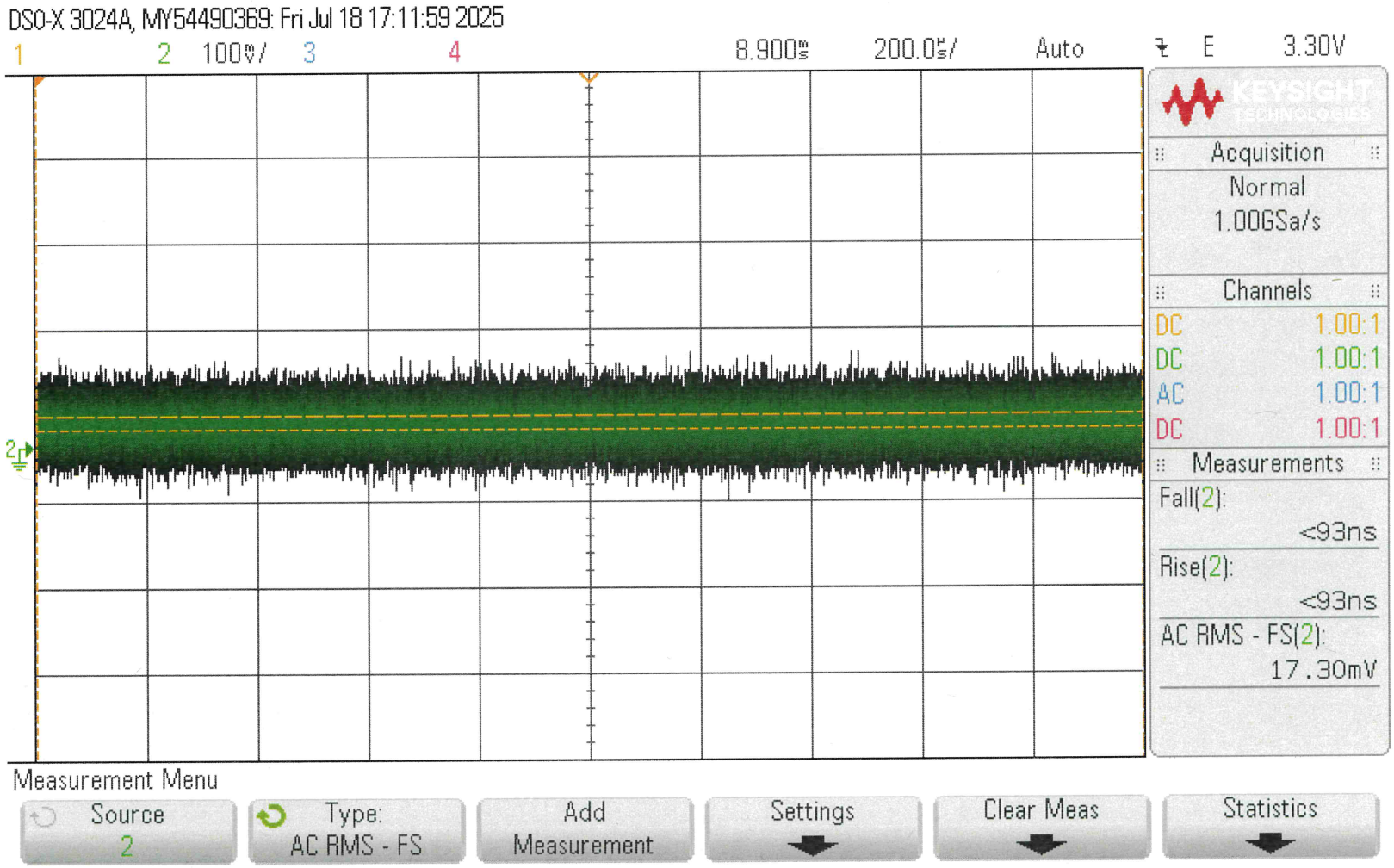
PL53799

TSS -73



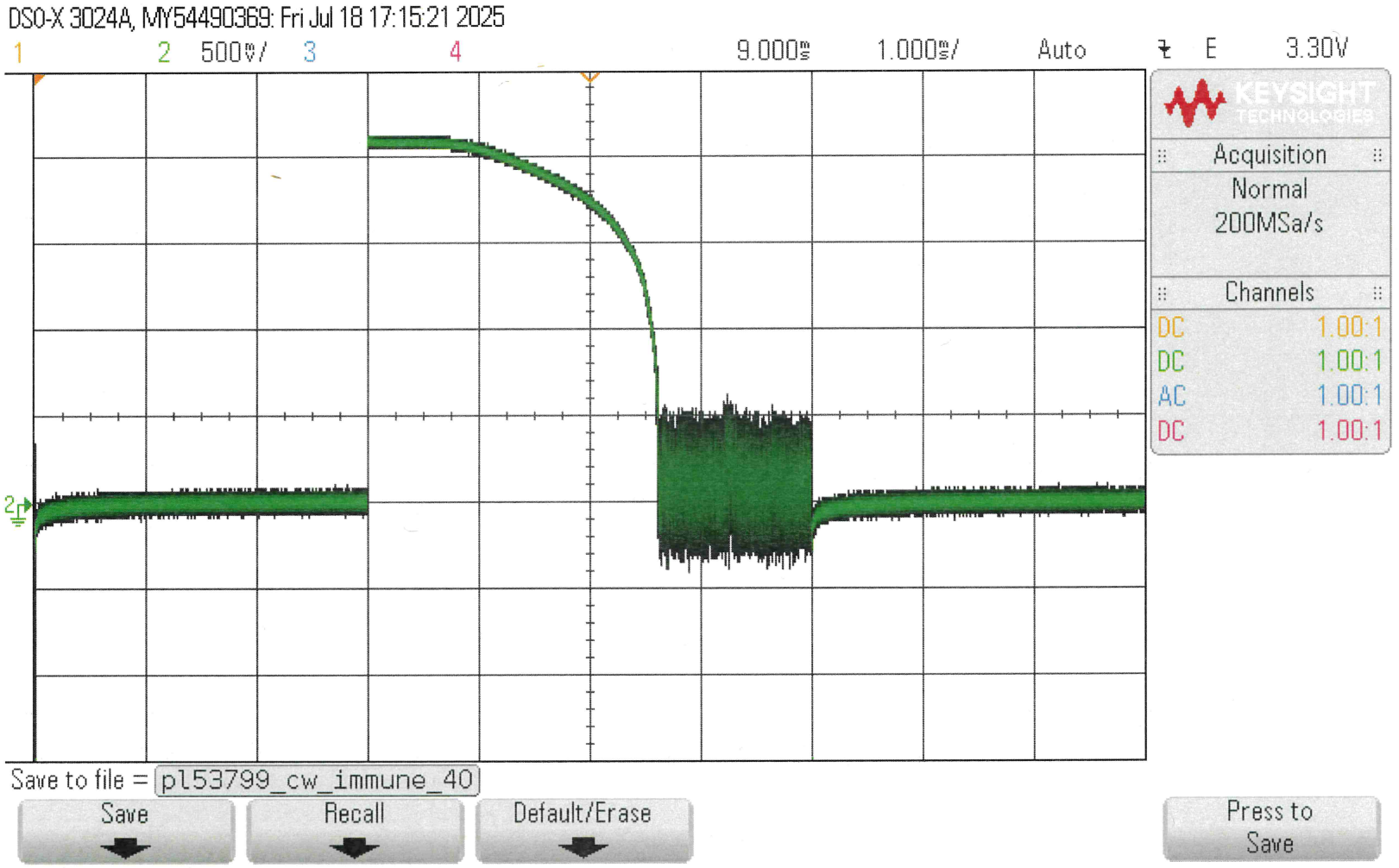
PL53799

Rms noise

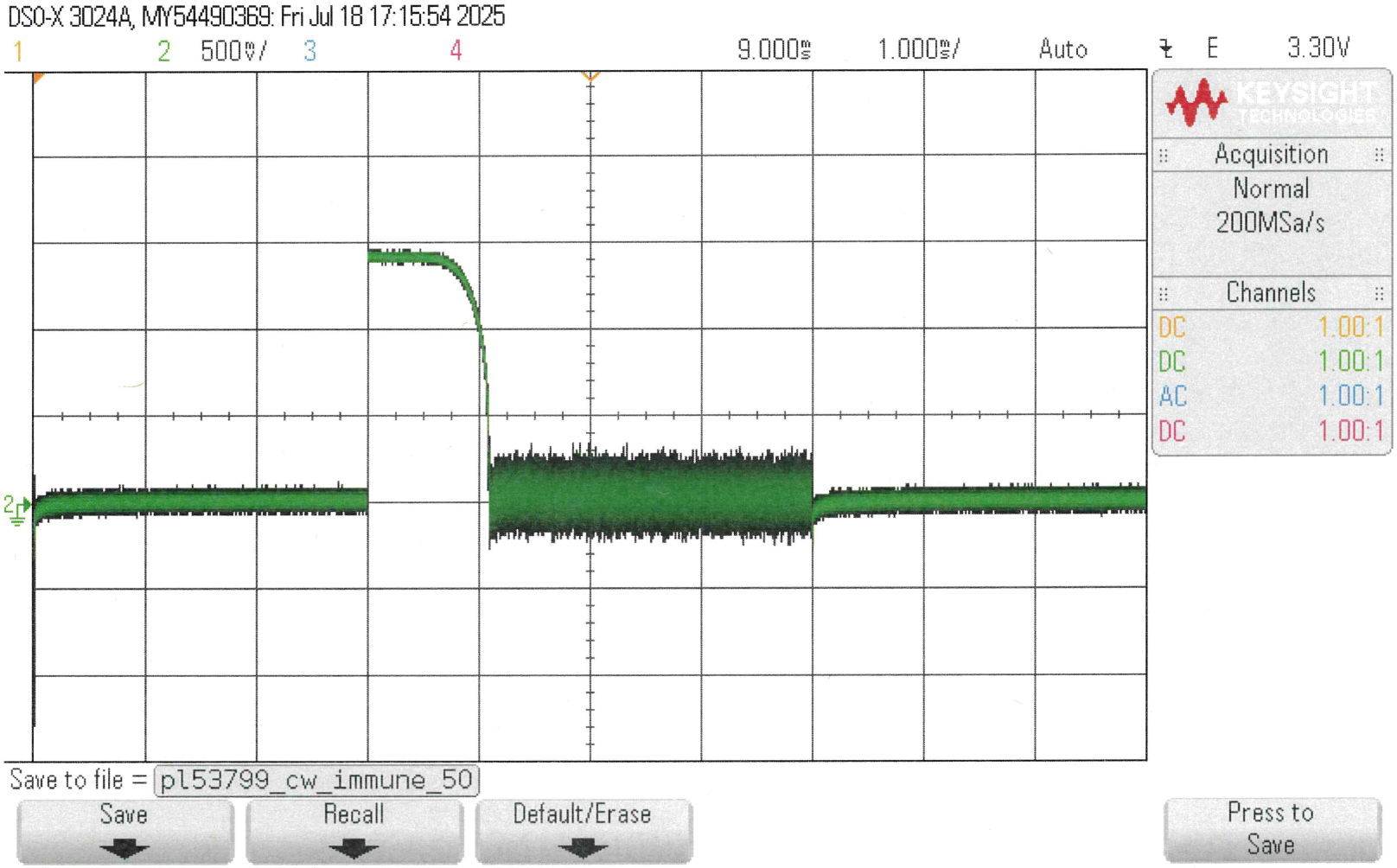


PL53799

CW Immunity Recovery -40dbm



PL53799
CW Immune/Recovery -50dBm



PL53799
CW Immune/Recovery -60dbm