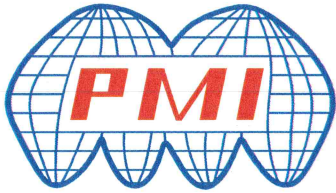


Summary Data
For
ERDLVA-2G18G-65-70MV-85C

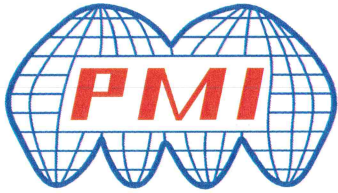
Customer: _____ Tested By: Jim Hopson
 SO No: _____ Temperature: -10°C TO +85°C
 Model No: ERDLVA-2G18G-65-70MV-85C Date 8/7/2024
 Serial No: PL39777/2313 Drawing No: 27642020 Rev: B1

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	2.06:1 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	71.9/68.6 db	
7	VIDEO OUT Log Linearity:	±1.0 dB MAX @25C	.85/- .65 db	
8	VIDEO OUT Log Accuracy:	±2.3 dB MAX @25C	12.5/-1.19 db	
9	VIDEO OUT Absolute Log Accuracy:	±2.6 dB MAX Over Freq & temp	±1.74 dB MAX Over Freq & temp	
10	VIDEO OUT DC Offset:	0 ±70 mV (RF Input Terminated & DC Power On) @25C	41 mV	
11	VIDEO OUT Rise Time (10% to 90%):	28 ns MAX	24.5 ns	
12	VIDEO OUT Fall Time (90% to 10%):	300 ns MAX	119 ns	
13	VIDEO OUT Settling Time:	50 ns With in ±70 mV of final value @-10 dBm	< 50ns	



Summary Data
For
ERDLVA-2G18G-65-70MV-85C

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	±1.13 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	1.5 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	152 mV	



Summary Data
For
ERDLVA-2G18G-65-70MV-85C

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 @ 320 mA -15 V @ 80 mA	
25	Power Supply Ripple From DC to 10 MHz	100 mV MAX	Pass	

QA/QC Approval: *H. Lester*

Date: 8-9-29



LOG TRANSFER VS FREQUENCY
 Model: ERDLVA-218-65-70MV-85
 Tested By: Jim Hobson
 Date: 8-7-24
 Serial Number: PL39777
 Test Temp: +25°C

Frequency	Intercept (mV)	Slope (mV/dB)	65	60	55	50	45	40	35	30	25	20	15	10	5	0
2 GHz	4872	68.99	363	725	1077	1427	1775	2103	2448	2809	3139	3505	3886	4195	4530	4845
	4872	68.99	-0.36	-0.11	0.01	0.06	0.11	0.14	0.18	0.22	0.26	0.29	0.32	0.35	0.38	0.40
3 GHz	4813	69.45	292	643	983	1339	1681	2023	2379	2759	3086	3437	3770	4102	4467	4802
	4813	69.45	-0.10	-0.04	-0.15	-0.02	0.05	-0.17	-0.04	0.43	0.14	0.19	-0.01	-0.23	0.02	-0.15
4 GHz	4864	69.92	325	683	1030	1382	1735	2074	2439	2817	3153	3503	3851	4179	4545	4839
	4864	69.92	-0.21	-0.09	-0.13	-0.09	-0.04	-0.24	0.03	0.43	0.24	0.25	0.22	-0.09	0.15	-0.65
5 GHz	4864	69.49	336	689	1037	1390	1743	2074	2428	2801	3133	3485	3828	4154	4519	4853
	4864	69.49	-0.17	-0.09	-0.06	0.00	0.08	-0.15	-0.06	0.31	0.09	0.15	0.09	-0.22	0.03	-0.10
6 GHz	4876	68.63	338	694	1045	1395	1745	2075	2432	2804	3136	3491	3836	4165	4534	4865
	4876	68.63	-0.16	-0.04	0.00	0.02	0.05	-0.21	-0.08	0.26	0.03	0.13	0.08	-0.19	0.11	-0.14
7 GHz	4874	70.15	312	665	1009	1366	1717	2050	2416	2798	3129	3483	3826	4159	4535	4853
	4874	70.15	-0.04	0.00	-0.10	-0.01	-0.01	-0.26	-0.04	0.49	0.12	0.16	0.06	-0.16	0.11	-0.10
8 GHz	4880	70.48	296	647	992	1352	1706	2044	2418	2801	3132	3486	3833	4154	4521	4865
	4880	70.48	-0.04	-0.06	-0.16	-0.05	-0.03	-0.22	0.20	0.22	0.15	0.30	-0.09	-0.21	-0.09	-0.21
9 GHz	4892	71.93	292	583	926	1295	1647	1999	2401	2807	3140	3488	3832	4165	4533	4867
	4892	71.93	-0.68	-0.46	-0.06	0.15	-0.26	0.23	0.82	0.50	0.34	0.12	-0.26	-0.13	-0.57	-0.70
10 GHz	4892	71.86	247	580	918	1289	1643	1991	2388	2797	3130	3480	3821	4152	4521	4858
	4892	71.86	-0.36	0.00	-0.30	-0.14	-0.21	-0.37	0.16	0.45	0.35	0.10	-0.29	-0.16	-0.47	-0.76
11 GHz	4900	70.55	310	666	1010	1363	1717	2054	2425	2823	3160	3508	3854	4180	4539	4874
	4900	70.55	-0.06	-0.01	-0.13	-0.13	-0.11	-0.34	0.06	0.56	0.34	0.27	0.18	-0.12	-0.37	-0.14
12 GHz	4929	71.79	284	628	966	1336	1691	2034	2426	2815	3152	3501	3849	4187	4570	4925
	4929	71.79	-0.29	0.09	-0.18	-0.05	-0.11	-0.33	0.24	0.11	-0.09	-0.24	0.04	0.00	-0.06	-0.23
13 GHz	4877	70.47	296	642	985	1345	1687	2039	2423	2807	3139	3485	3835	4152	4515	4843
	4877	70.47	-0.01	-0.10	-0.23	-0.12	-0.13	-0.27	0.18	0.63	0.34	0.39	0.21	-0.29	-0.14	-0.48
14 GHz	4873	69.54	339	695	1047	1390	1742	2083	2440	2811	3142	3489	3836	4177	4532	4847
	4873	69.54	-0.14	-0.03	-0.02	-0.09	0.03	0.20	0.01	0.56	0.11	0.09	0.08	-0.01	0.09	-0.38
15 GHz	4846	68.93	345	705	1055	1403	1755	2085	2426	2786	3115	3473	3813	4141	4505	4859
	4846	68.93	-0.29	-0.07	0.01	0.06	0.16	-0.05	-0.10	-0.12	-0.11	0.09	-0.02	-0.37	0.06	0.19
16 GHz	4929	70.50	337	692	1038	1391	1744	2090	2463	2842	3175	3511	3856	4181	4581	4916
	4929	70.50	-0.04	0.00	-0.09	-0.09	-0.08	-0.17	0.12	0.50	0.22	0.01	-0.12	-0.35	0.16	-0.08
17 GHz	4886	69.91	331	688	1034	1383	1738	2080	2439	2816	3153	3496	3859	4172	4539	4870
	4886	69.91	-0.15	-0.04	-0.09	-0.10	-0.02	-0.13	0.00	0.40	0.22	0.12	0.03	-0.21	0.04	-0.22
18 GHz	4801	68.56	331	684	1029	1384	1732	2067	2383	2747	3077	3426	3767	4101	4471	4813
	4801	68.56	-0.19	-0.05	-0.11	0.16	0.24	-0.02	0.26	0.04	-0.14	-0.05	-0.08	-0.21	0.19	0.18
Output Vols: 41.0 mV																
Avg Slope:	70.1 mV/dB		365	726	1077	1427	1775	2103	2463	2842	3175	3511	3856	4181	4581	4925
Max Slope:	71.9 mV/dB		247	580	918	1289	1643	1991	2388	2797	3130	3480	3821	4152	4521	4858
Min Slope:	68.6 mV/dB		0.93	1.63	1.13	0.88	0.84	0.80	0.60	0.68	0.70	0.61	0.71	0.65	0.81	0.88

RF Input Power (dBm)

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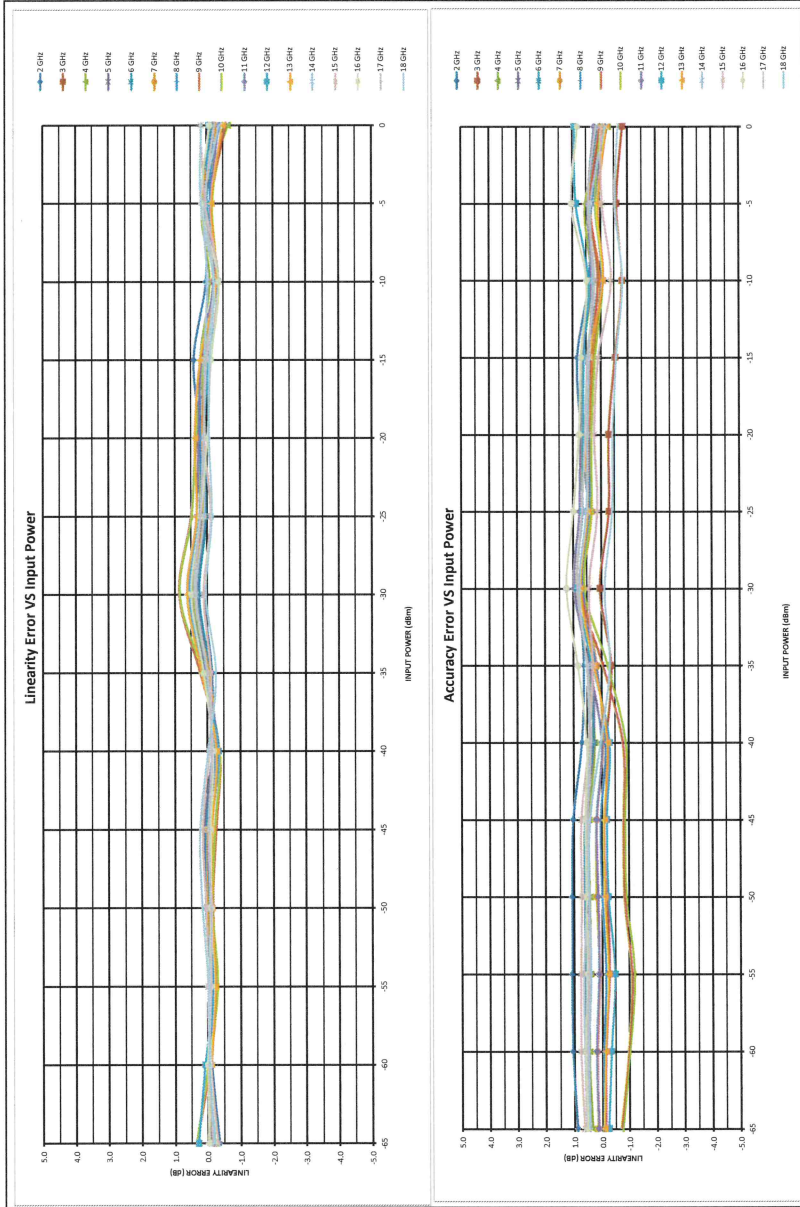
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Measured Value (mV

PL39777

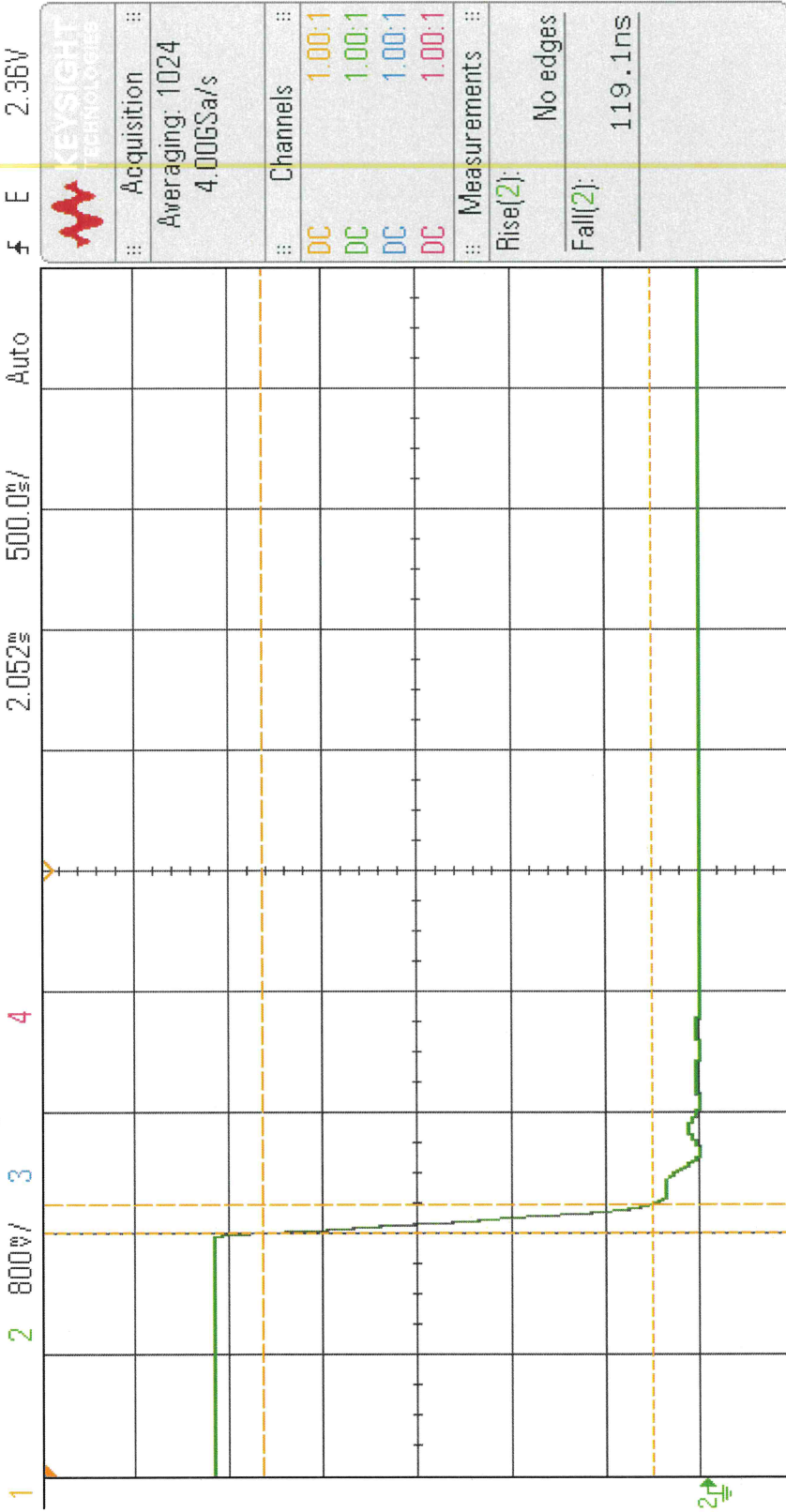
25°C



PL39777

Recovery

DSO-X 3034A, MW52394003, Mon Aug 05 11:33:56 2024



Measurement Menu

Source

2

Type:

Fall

Add

Measurement

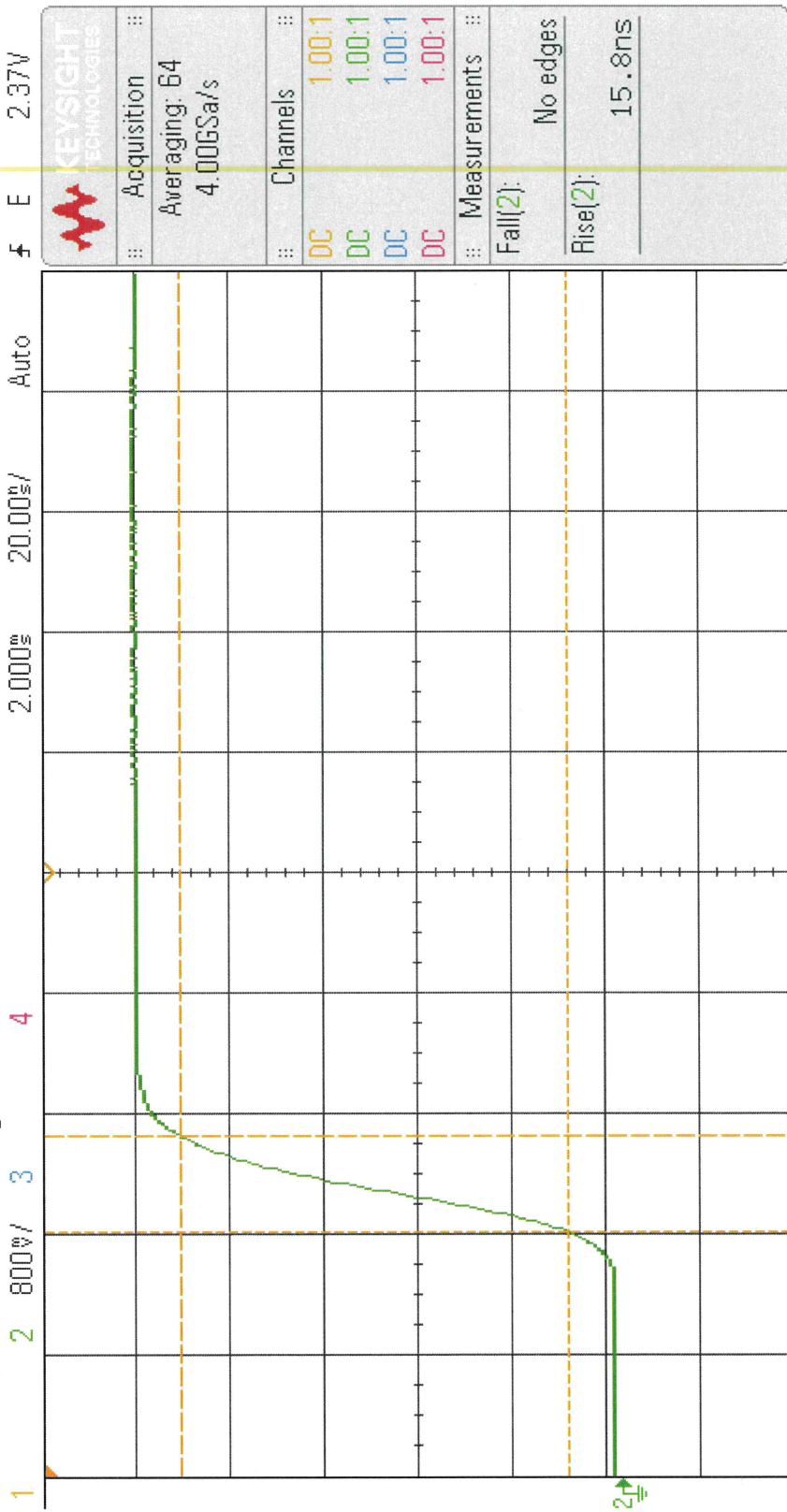
Settings

Clear Meas

Statistics

PL39777
settle

DSO-X 3034A, MVE2394003, Mon Aug 05 11:31:16 2024

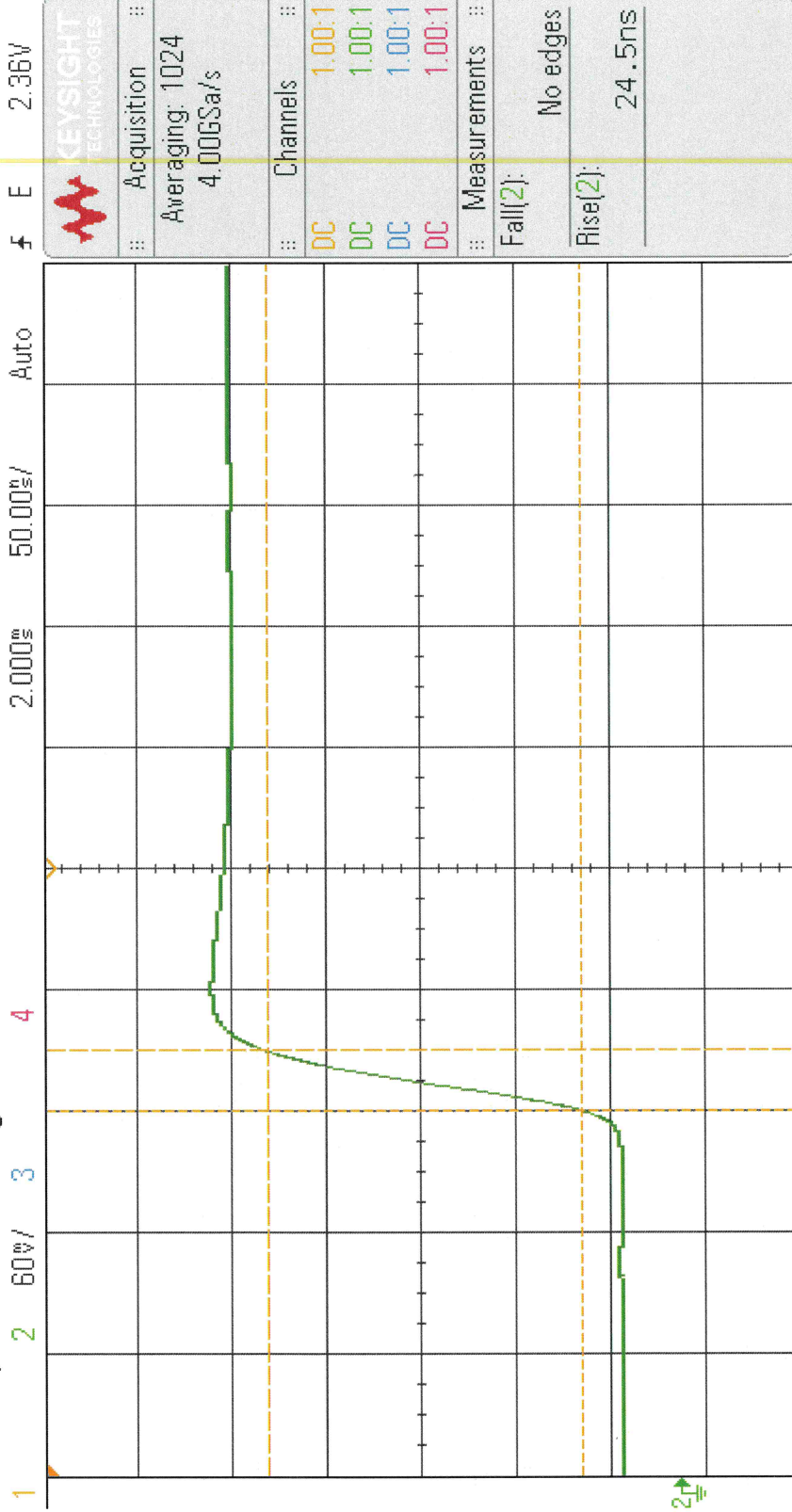


Measurement Menu

- Source 2
- Type: Rise
- Add Measurement
- Settings
- Clear Meas
- Statistics

PL39777
Rise Time

DSO-X 3034A, MW52394003, Mon Aug 05 11:32:28 2024



Acquire Menu

Acq Mode Averaging

Avgs 1024

Segmented

PL39777

cw Recovery

DSO-X 3034A, MV52394003, Mon Aug 05 11:29:05 2024

1 2 500V/ 3 4

4.020µs 20.00µs/ Auto

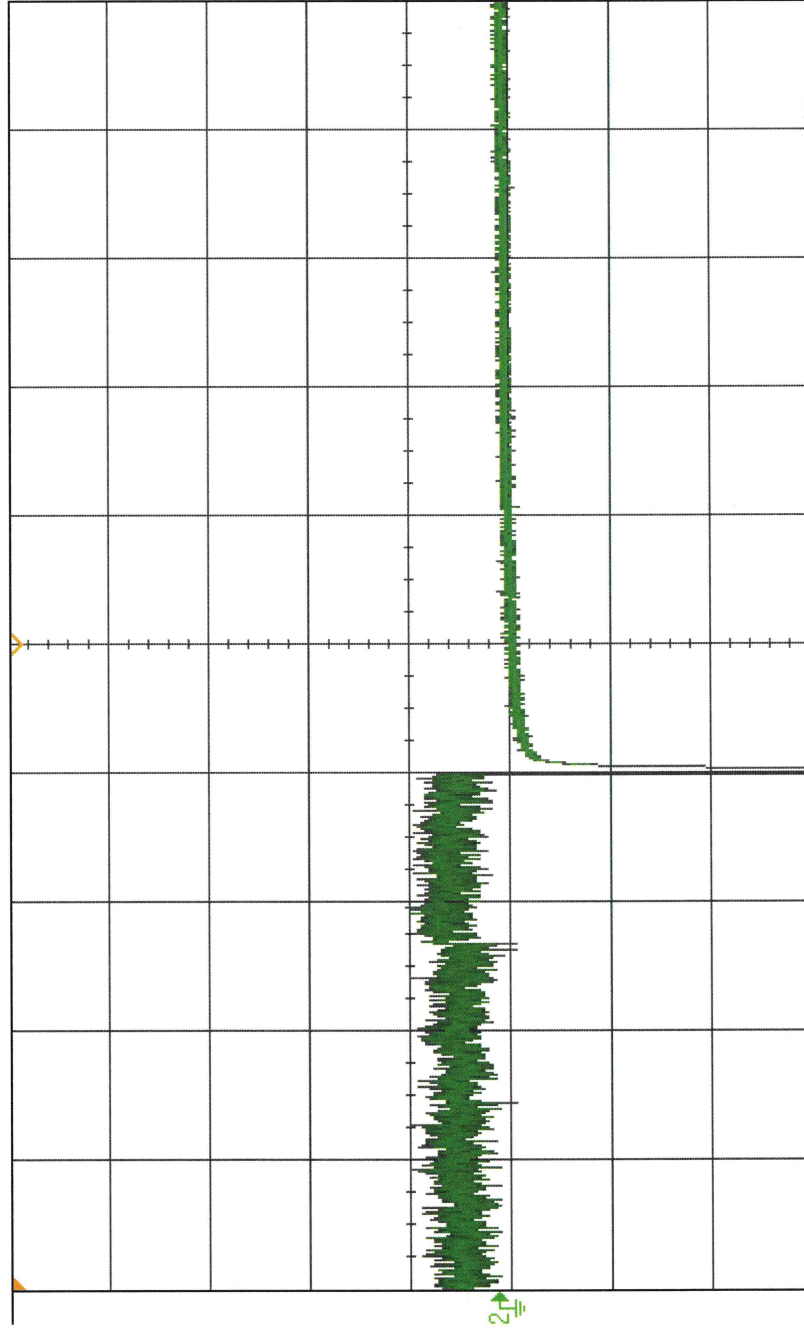
f E 2.37V

KEYSIGHT TECHNOLOGIES

Acquisition
Averaging: 2
4.00GSa/s

Channels

DC	1.00:1
DC	1.00:1
DC	1.00:1
DC	1.00:1



Save to file = pl39777_cw_recovery

Save

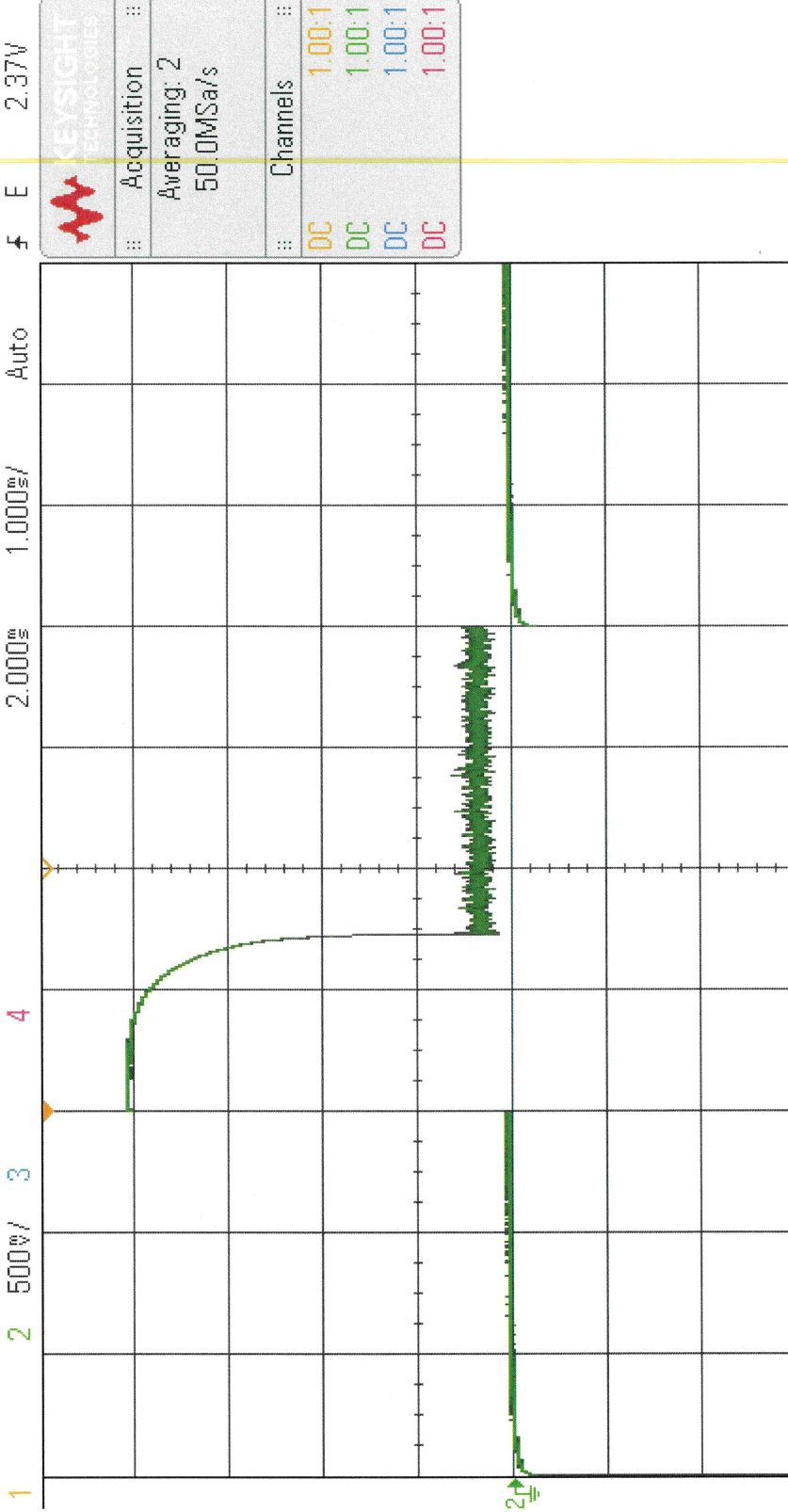
Recall

Default/Erase

Press to Save

PL39777
CW Immune

DSO-X 3034A, MW52394003, Mon Aug 05 11:29:44 2024



Save to file = pl39777_cw_immune

Save

Recall

Default/Erase

Press to Save