



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

14	VIDEO OUT Recovery Time:	1 us MAX to within 1 dB of baseline for PW <10us & Power = -10dBm	600 ns	PMI QA3
15	VIDEO OUT Video Frequency Flatness:	±2.0 dB MAX @25C	±1.75 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	1.8 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	142 mV	



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

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: *K. Klumpp*

Date: 10-23-24

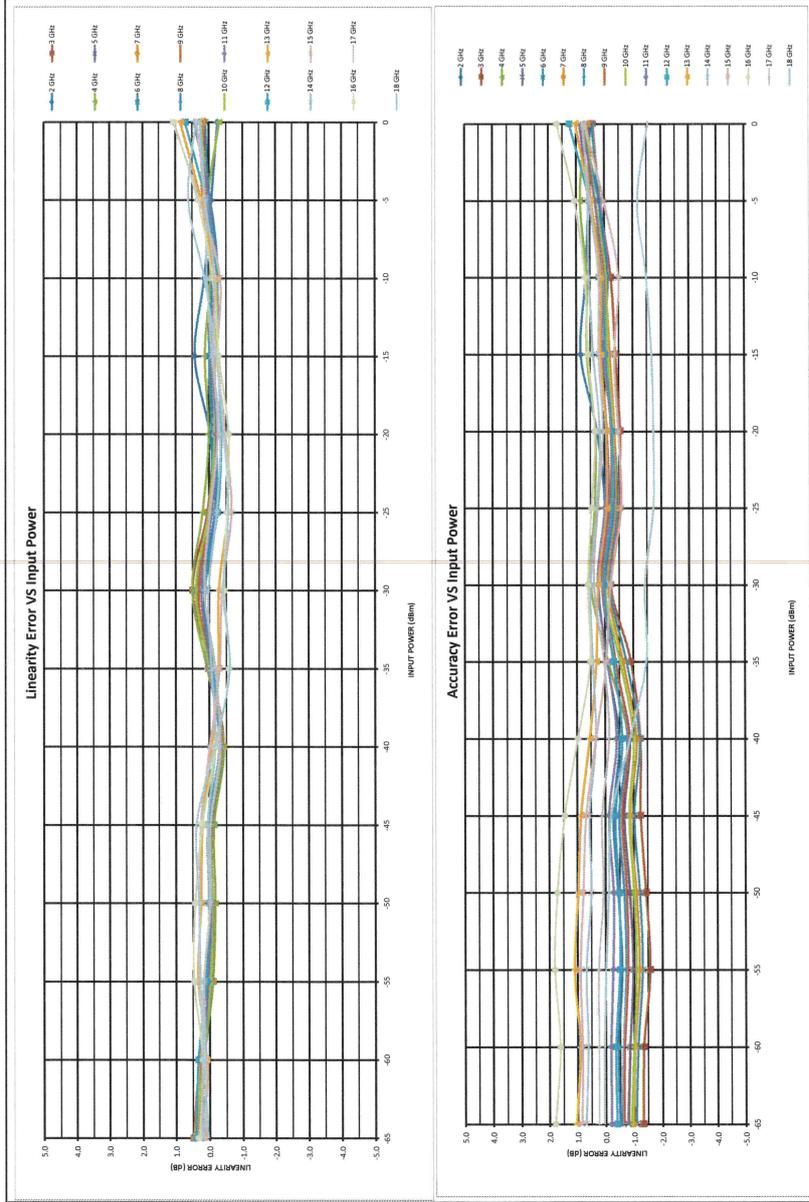


LOG TRANSFER VS. FREQUENCY
 Model: ENDLVA-218-65-70MV-70
 Tested by: J. Houston
 Date: 08-18-24
 Serial Number: PL44818
 Test Temp: +25°C

Frequency	Intercept (mV)	Slope (mV/dB)	65	60	55	50	45	40	35	30	25	20	15	10	5	0	Measured Value (mV)	Linearity Error (dB)	Accuracy Error (dB)
2 GHz	4935	71.24	310	671	1020	1369	1724	2059	2433	2814	3154	3516	3888	4237	4566	4814	0.44	0.44	1.11
	4935	71.24	5	10	3	4	-5	-27	-9	-16	0	5	31	14	-11	-21	0.07	0.14	0.44
	4935	71.24	0.07	0.14	0.04	-0.06	-0.38	-0.93	-1.73	-2.22	-0.01	0.08	0.44	0.84	0.20	-0.16	-0.30	-0.92	-0.80
3 GHz	4937	71.65	268	618	956	1310	1674	2048	2433	2814	3154	3516	3888	4237	4566	4814	0.54	0.54	1.76
	4937	71.65	12	14	-5	-8	-6	-25	-4	39	14	-3	-5	-8	-2	0	0.17	0.20	0.54
	4937	71.65	0.17	0.20	-0.07	-0.13	-0.08	-0.34	-0.06	0.20	0.04	-0.08	-0.11	-0.03	-0.03	0.00	-1.66	-1.55	-1.76
4 GHz	4958	71.79	285	653	1002	1353	1715	2084	2469	2854	3187	3528	3892	4241	4594	4930	0.52	0.52	1.54
	4958	71.79	4	13	-7	-15	-12	-32	-4	37	24	6	11	11	11	6	0.06	0.18	0.52
	4958	71.79	0.06	0.18	-0.10	-0.21	-0.17	-0.44	0.06	0.52	0.34	0.09	0.16	0.32	0.06	0.16	-1.13	-0.91	-1.11
5 GHz	4936	71.86	292	666	998	1352	1713	2084	2469	2854	3187	3528	3892	4241	4594	4930	0.37	0.37	1.45
	4936	71.86	12	14	-2	-6	-3	-25	0	25	7	5	-1	-9	-6	11	0.16	0.19	0.37
	4936	71.86	0.16	0.19	-0.03	-0.08	-0.04	-0.36	0.00	0.35	0.10	-0.06	-0.02	-0.13	-0.09	0.15	-1.12	-1.01	-1.16
6 GHz	4916	71.49	282	641	953	1334	1692	2029	2409	2798	3136	3487	3847	4196	4552	4917	0.38	0.38	1.21
	4916	71.49	13	15	-1	-7	-5	-27	-4	27	8	0	0.05	-0.07	-0.09	0.02	0.19	0.21	0.38
	4916	71.49	0.19	0.21	-0.01	-0.10	-0.09	-0.30	0.06	0.38	0.11	0.02	0.05	-0.07	-0.09	0.02	-1.32	-1.23	-1.37
7 GHz	4923	71.87	285	646	988	1339	1698	2035	2415	2803	3139	3486	3842	4200	4573	4929	0.37	0.37	1.45
	4923	71.87	13	17	1	-6	-5	-26	-4	27	5	-6	-8	-8	7	6	0.19	0.23	0.37
	4923	71.87	0.19	0.23	0.01	-0.08	-0.07	-0.36	-0.05	0.37	0.07	-0.08	-0.11	-0.11	-0.10	0.08	-1.28	-1.16	-1.30
8 GHz	4921	71.00	314	674	1017	1368	1726	2099	2431	2810	3147	3494	3869	4187	4554	4944	0.33	0.33	1.21
	4921	71.00	8	13	0.02	-0.06	-0.22	-0.07	0.27	0.02	-0.09	0.05	-0.19	-0.16	-0.16	0.33	0.11	0.16	0.33
	4921	71.00	0.11	0.16	-0.02	-0.09	-0.38	-0.11	0.27	0.02	-0.09	0.05	-0.19	-0.16	-0.16	0.33	-0.87	-0.76	-0.89
9 GHz	4929	71.24	308	669	1012	1358	1718	2052	2432	2820	3159	3499	3857	4209	4568	4936	0.40	0.40	1.21
	4929	71.24	10	15	1	-9	-5	-27	-3	29	11	-5	-3	-7	-4	7	0.14	0.20	0.40
	4929	71.24	0.14	0.20	0.02	-0.12	-0.07	-0.38	-0.05	0.40	0.16	-0.07	-0.04	-0.10	-0.06	0.11	-0.45	-0.36	-0.47
10 GHz	4936	71.60	280	651	984	1346	1706	2045	2435	2822	3160	3501	3858	4208	4566	4943	0.60	0.60	1.88
	4936	71.60	1	11	0.06	-0.10	-0.07	-0.34	0.07	0.47	0.20	-0.04	-0.06	-0.17	-0.10	0.10	0.11	0.15	0.06
	4936	71.60	0.11	0.15	-0.08	-0.17	-0.12	-0.41	0.07	0.47	0.20	-0.04	-0.06	-0.17	-0.10	0.10	-1.21	-1.08	-1.22
11 GHz	4938	70.71	343	702	1055	1399	1754	2090	2458	2837	3179	3517	3874	4224	4578	4951	0.29	0.29	0.87
	4938	70.71	1	6	-4	-2	-20	-5	-20	9	-7	-3	-7	-6	13	0.01	0.09	0.29	
	4938	70.71	0.01	0.09	0.08	-0.05	-0.03	-0.28	-0.07	0.29	0.12	-0.10	-0.05	-0.10	-0.09	0.18	-0.45	-0.36	-0.47
12 GHz	4939	71.03	330	693	1044	1399	1740	2075	2443	2821	3160	3500	3859	4214	4581	4981	0.60	0.60	1.88
	4939	71.03	0.12	0.23	0.17	0.03	-0.03	-0.32	0.13	0.19	-0.04	-0.25	-0.20	-0.20	-0.03	0.60	-0.64	-0.49	-0.51
	4939	71.03	0.64	-0.49	-0.51	-0.61	-0.64	-0.88	-0.66	-0.30	-0.49	-0.67	-0.57	-0.54	-0.33	0.34	0.64	-0.49	-0.51
13 GHz	4928	69.13	446	787	1152	1487	1822	2151	2485	2841	3180	3523	3880	4228	4591	4977	0.74	0.74	2.21
	4928	69.13	12	7	26	16	5	-12	-23	-13	-20	-22	-11	-9	8	49	0.17	0.10	0.38
	4928	69.13	0.17	0.10	0.38	0.22	0.07	-0.17	-0.34	-0.19	-0.29	-0.33	-0.16	-0.33	0.12	0.29	-1.01	0.84	1.02
14 GHz	4944	69.74	415	763	1124	1468	1803	2141	2493	2856	3199	3536	3895	4255	4598	4950	0.57	0.57	1.54
	4944	69.74	4	13	1	-2	-13	-10	5	-1	-13	-3	9	3	6	0.07	0.06	0.57	
	4944	69.74	0.07	0.06	0.19	0.02	-0.03	-0.19	0.14	0.07	-0.18	-0.04	-0.13	0.04	0.09	-0.57	-0.50	-0.58	
15 GHz	4892	68.82	412	768	1127	1466	1806	2133	2458	2816	3151	3495	3851	4187	4553	4944	0.76	0.76	2.21
	4892	68.82	7	5	20	15	11	-5	-25	-11	-26	-30	-12	-24	0.08	0.76	-0.10	0.07	0.29
	4892	68.82	-0.10	0.07	0.29	0.22	0.16	-0.09	-0.37	-0.15	-26	-30	-12	-24	0.08	0.76	0.52	0.58	
16 GHz	4955	68.79	503	840	1203	1544	1866	2190	2509	2868	3212	3542	3900	4256	4633	5022	0.28	0.28	0.84
	4955	68.79	20	13	32	29	7	-13	-35	-23	-23	-37	-23	-11	22	67	0.18	0.18	0.57
	4955	68.79	0.18	0.18	0.46	0.42	0.10	-0.19	-0.56	-0.34	-0.54	-0.33	-0.16	-0.32	0.98	1.82	1.60	1.75	
17 GHz	4951	69.46	439	768	1151	1489	1821	2156	2503	2872	3222	3549	3901	4256	4633	5022	0.04	0.04	0.12
	4951	69.46	3	4	20	4	-4	-17	-24	-15	0.07	0.11	-0.16	-0.12	-0.07	0.06	0.04	0.06	0.29
	4951	69.46	0.04	0.06	0.29	0.05	0.06	-0.34	-0.15	0.07	0.11	-0.16	-0.12	-0.07	0.06	0.29	-0.91	0.88	1.01
18 GHz	67.62	67.62	421	773	1133	1465	1798	2109	2412	2787	3120	3453	3806	4162	4525	4834	0.65	0.65	1.74
	67.62	67.62	-11	3	25	19	14	-13	-48	-11	-16	-21	-7	11	36	7	0.16	0.05	0.37
	67.62	67.62	-0.16	0.05	0.37	0.28	0.21	-0.19	-0.71	-0.24	-0.74	-0.24	-0.32	-0.10	0.17	0.54	0.65	0.65	
Output Voss: -3.0 mV																			
Avg Slope: 70.5 mV/dB																			
Max Slope: 71.8 mV/dB																			
Min Slope: 67.6 mV/dB																			

Max Measured (mV)
 Min Measured (mV)
 Fitness Error (V-dB)

PL44918
+70°C

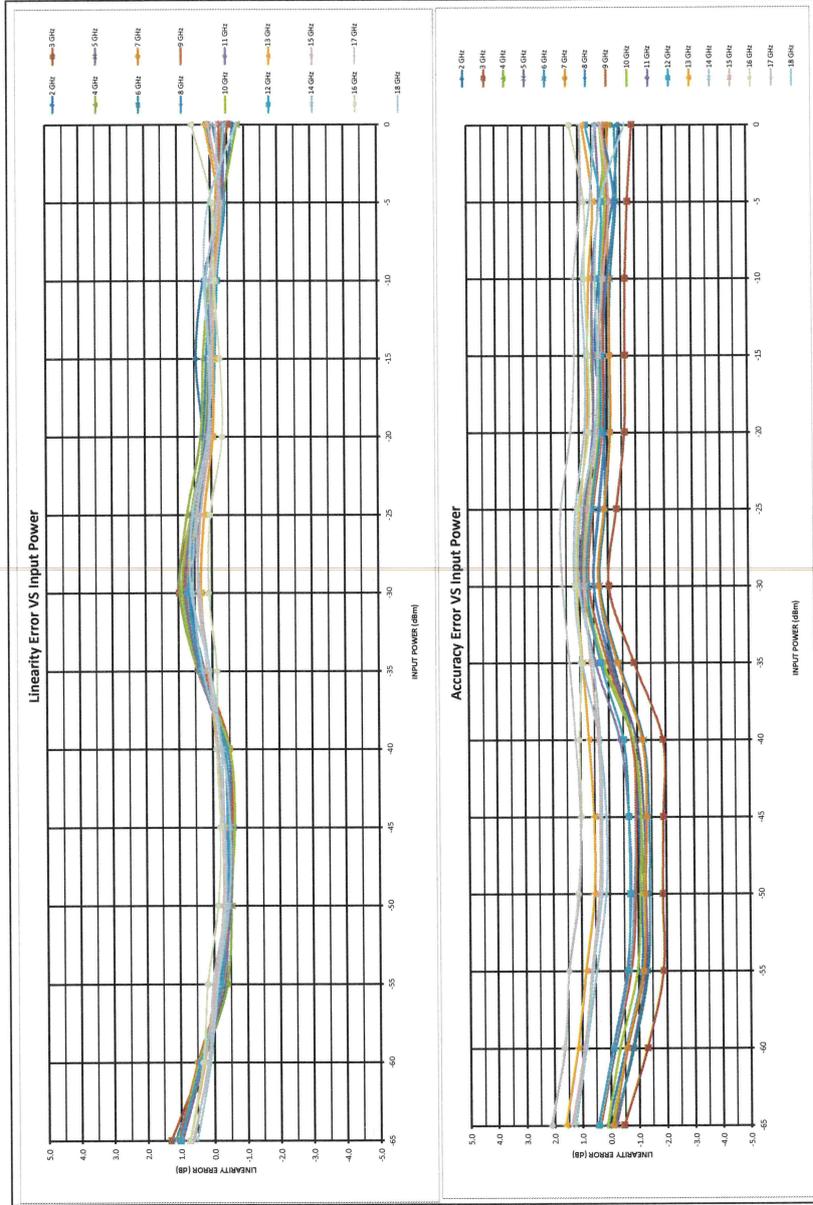


LOG TRANSFER VS. FREQUENCY
 Model: ERDLVA-218-65-70MV-70
 Tested By: Jim Hooson
 Date: 10-18-24
 Serial Number: PL44918
 Test Temp: 40°C



Frequency	Intercept (mV)	Slope (mV/dB)	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	Measured Value (mV)	Linearity Error (dB)	Accuracy Error (dB)	RF Input Power (dBm)
2 GHz	4896	73.32	207	522	840	1201	1566	1940	2347	2743	3087	3448	3829	4179	4502	4847	1.05	1.05	1.11	1.05
	4896	73.32	77	25	-23	-29	-31	-29	-17	47	24	19	33	16	-27	-49	1.05	1.05	1.11	1.05
	4896	73.32	0.10	-0.53	-1.11	-1.10	-1.03	-0.83	-0.18	0.32	1.10	0.11	0.40	0.26	-0.25	-0.48	1.05	1.05	1.11	1.05
3 GHz	4852	73.55	168	467	785	1146	1503	1876	2296	2718	3069	3397	3755	4114	4487	4815	1.31	1.31	1.40	1.31
	4852	73.55	96	28	-22	-29	-40	-34	18	72	44	16	6	-3	-18	-37	1.31	1.31	1.40	1.31
	4852	73.55	-0.44	-1.29	-1.86	-1.86	-1.90	-1.90	-0.89	-0.03	-0.31	-0.60	-0.63	-0.64	-0.74	-0.90	1.31	1.31	1.40	1.31
4 GHz	4931	73.97	198	518	854	1194	1560	1941	2375	2783	3136	3475	3839	4195	4536	4873	1.01	1.01	1.09	1.01
	4931	73.97	75	25	-29	-39	-43	-32	33	71	54	23	17	3	-25	-58	1.01	1.01	1.09	1.01
	4931	73.97	-0.03	-0.58	-1.19	-1.19	-1.11	-0.82	-0.21	0.86	0.78	0.49	0.54	0.49	0.22	-0.10	1.01	1.01	1.09	1.01
5 GHz	4911	73.85	187	505	829	1188	1552	1931	2352	2756	3103	3446	3808	4165	4515	4891	1.03	1.03	1.10	1.03
	4911	73.85	76	25	-20	-30	-36	-26	26	66	38	12	5	-7	-27	-20	1.03	1.03	1.10	1.03
	4911	73.85	-0.18	-0.76	-1.28	-1.26	-1.22	-0.96	-0.11	0.50	0.32	0.08	0.11	0.07	-0.07	0.15	1.03	1.03	1.10	1.03
6 GHz	4887	73.56	193	501	824	1179	1539	1912	2333	2740	3085	3433	3794	4150	4494	4857	1.16	1.16	1.23	1.16
	4887	73.56	87	27	-17	-30	-38	-33	21	60	37	17	11	-1	-25	-30	1.16	1.16	1.23	1.16
	4887	73.56	-0.10	-0.82	-1.53	-1.40	-1.40	-1.22	-0.38	0.83	0.07	-0.10	-0.08	-0.14	-0.36	-0.32	1.16	1.16	1.23	1.16
7 GHz	4895	73.56	193	519	835	1191	1546	1916	2337	2744	3089	3432	3793	4155	4517	4876	1.07	1.07	1.14	1.07
	4895	73.56	79	37	-15	-26	-39	-37	16	56	33	8	1	-5	-10	-19	1.07	1.07	1.14	1.07
	4895	73.56	-0.10	-0.57	-1.18	-1.24	-1.31	-1.17	-0.32	0.83	0.13	-0.11	-0.10	-0.07	-0.04	-0.06	1.07	1.07	1.14	1.07
8 GHz	4895	73.00	227	547	869	1217	1573	1941	2386	2785	3101	3446	3810	4168	4499	4899	1.06	1.06	1.13	1.06
	4895	73.00	76	30	-14	-26	-34	-28	16	56	33	10	10	-7	-31	-8	1.06	1.06	1.13	1.06
	4895	73.00	0.38	-0.18	-0.71	-0.88	-0.93	-0.82	-0.06	0.83	0.29	0.07	-0.14	-0.03	-0.29	0.13	1.06	1.06	1.13	1.06
9 GHz	4905	73.17	227	551	867	1214	1572	1942	2382	2789	3117	3453	3810	4170	4518	4887	1.06	1.06	1.13	1.06
	4905	73.17	76	36	-14	-33	-41	-36	18	59	41	11	2	-4	-21	-18	1.06	1.06	1.13	1.06
	4905	73.17	0.44	-0.08	-0.58	-0.75	-0.68	-0.39	0.46	0.84	0.83	0.50	0.49	0.51	0.26	0.38	1.06	1.06	1.13	1.06
10 GHz	4919	73.81	209	536	861	1203	1560	1938	2371	2775	3124	3481	3820	4176	4523	4895	1.02	1.02	1.09	1.02
	4919	73.81	76	30	-14	-26	-32	-26	26	56	33	10	10	-7	-31	-8	1.02	1.02	1.09	1.02
	4919	73.81	0.13	-0.33	-0.86	-1.07	-1.11	-0.86	-0.15	0.76	0.61	0.29	0.28	0.22	0.04	0.21	1.02	1.02	1.09	1.02
11 GHz	4932	73.40	232	554	878	1226	1591	1972	2393	2798	3140	3476	3835	4197	4539	4907	1.06	1.06	1.13	1.06
	4932	73.40	71	26	-17	-36	-41	-36	18	59	43	12	4	-1	-26	-25	1.06	1.06	1.13	1.06
	4932	73.40	0.44	-0.08	-0.58	-0.75	-0.68	-0.39	0.46	0.84	0.83	0.50	0.49	0.51	0.26	0.38	1.06	1.06	1.13	1.06
12 GHz	4924	73.37	231	552	875	1209	1563	1943	2374	2778	3124	3481	3820	4176	4523	4892	1.03	1.03	1.10	1.03
	4924	73.37	76	30	-14	-26	-32	-26	26	56	33	10	10	-7	-31	-8	1.03	1.03	1.10	1.03
	4924	73.37	0.43	-0.11	-0.63	-0.71	-0.68	-0.51	0.28	0.75	0.57	0.24	0.22	0.25	0.18	0.72	1.03	1.03	1.10	1.03
13 GHz	4930	71.78	317	644	982	1319	1679	2051	2426	2800	3162	3492	3850	4206	4555	4942	0.73	0.73	0.78	0.73
	4930	71.78	53	21	0	-22	-21	-8	23	16	-3	-4	-6	-16	-12	0.73	0.73	0.78	0.73	
	4930	71.78	1.63	1.17	0.85	0.54	0.54	0.71	0.92	1.11	1.00	0.72	0.69	0.64	0.49	0.86	0.73	0.73	0.78	0.73
14 GHz	4937	72.32	290	621	954	1269	1647	2024	2427	2807	3163	3496	3856	4224	4561	4908	0.74	0.74	0.78	0.74
	4937	72.32	53	23	-6	-32	-36	-20	21	39	34	7	4	10	-15	-29	0.74	0.74	0.78	0.74
	4937	72.32	1.25	0.85	0.47	0.13	0.10	0.33	0.93	1.21	1.15	0.81	0.78	0.89	0.57	0.39	0.74	0.74	0.78	0.74
15 GHz	4890	71.28	301	627	967	1306	1663	2027	2405	2781	3131	3468	3822	4169	4513	4893	0.62	0.62	0.66	0.62
	4890	71.28	44	14	-3	-20	-12	10	29	23	4	1	-8	-21	3	0.62	0.62	0.66	0.62	
	4890	71.28	1.40	0.93	0.65	0.36	0.32	0.38	0.63	0.85	0.71	0.39	0.31	0.13	-0.10	0.18	0.62	0.62	0.66	0.62
16 GHz	4936	71.34	352	679	1026	1360	1711	2075	2430	2803	3166	3487	3848	4217	4577	4975	0.75	0.75	0.79	0.75
	4936	71.34	53	24	14	-9	-15	-7	9	7	4	-22	-18	-6	-2	-39	0.75	0.75	0.79	0.75
	4936	71.34	2.11	1.65	1.47	1.11	0.99	1.04	0.97	1.15	1.06	0.65	0.67	0.79	0.79	1.32	0.75	0.75	0.79	0.75
17 GHz	4959	71.57	354	677	1026	1357	1714	2085	2460	2838	3201	3534	3884	4245	4596	4948	0.66	0.66	0.70	0.66
	4959	71.57	47	12	3	-24	-24	-11	6	26	31	6	-1	-2	-15	-11	0.66	0.66	0.70	0.66
	4959	71.57	2.14	1.63	1.47	1.07	1.03	1.18	1.18	1.38	1.68	1.31	1.17	1.18	0.92	0.94	0.66	0.66	0.70	0.66
18 GHz	4887	71.23	284	622	963	1300	1659	2021	2399	2794	3147	3470	3823	4183	4535	4833	0.52	0.52	0.56	0.52
	4887	71.23	37	9	-7	-26	-23	-17	5	44	40	7	4	14	4	-54	0.52	0.52	0.56	0.52
	4887	71.23	1.31	0.86	0.60	0.28	0.26	0.29	0.54	1.03	0.93	0.42	0.32	0.40	0.21	-0.65	0.52	0.52	0.56	0.52
Output Vos: -29.0 mV																				
Avg Slope: 70.8 mV/dB																				
Max Slope: 74.0 mV/dB																				
Min Slope: 71.2 mV/dB																				
Fitness Error (4-dB): 0.82 1.10																				

PL44918
- 40°C



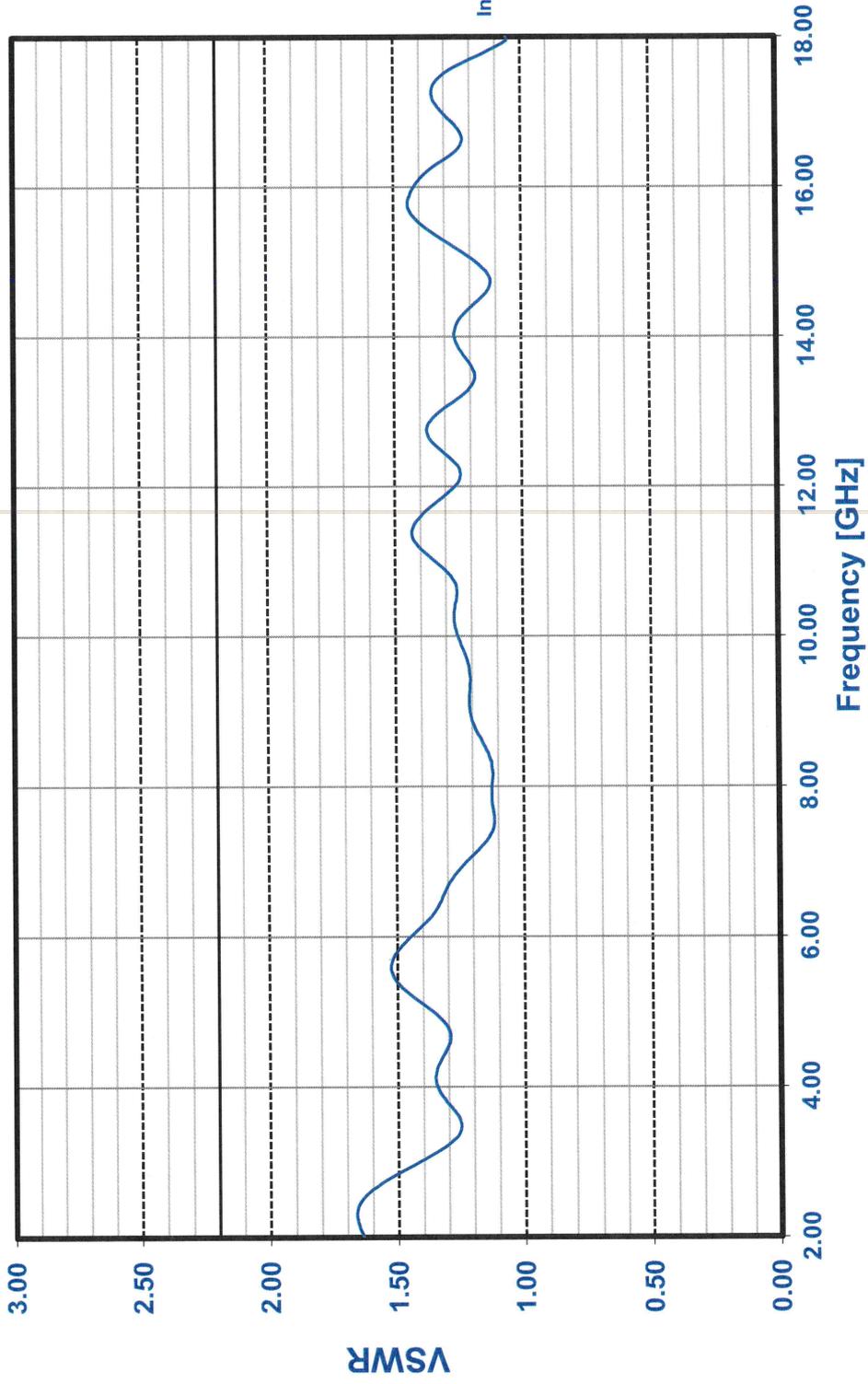
Model Number: ERDLVA-2G18G-65-70MV-70C

Serial Number: PL44918

Date: 10/18/2024

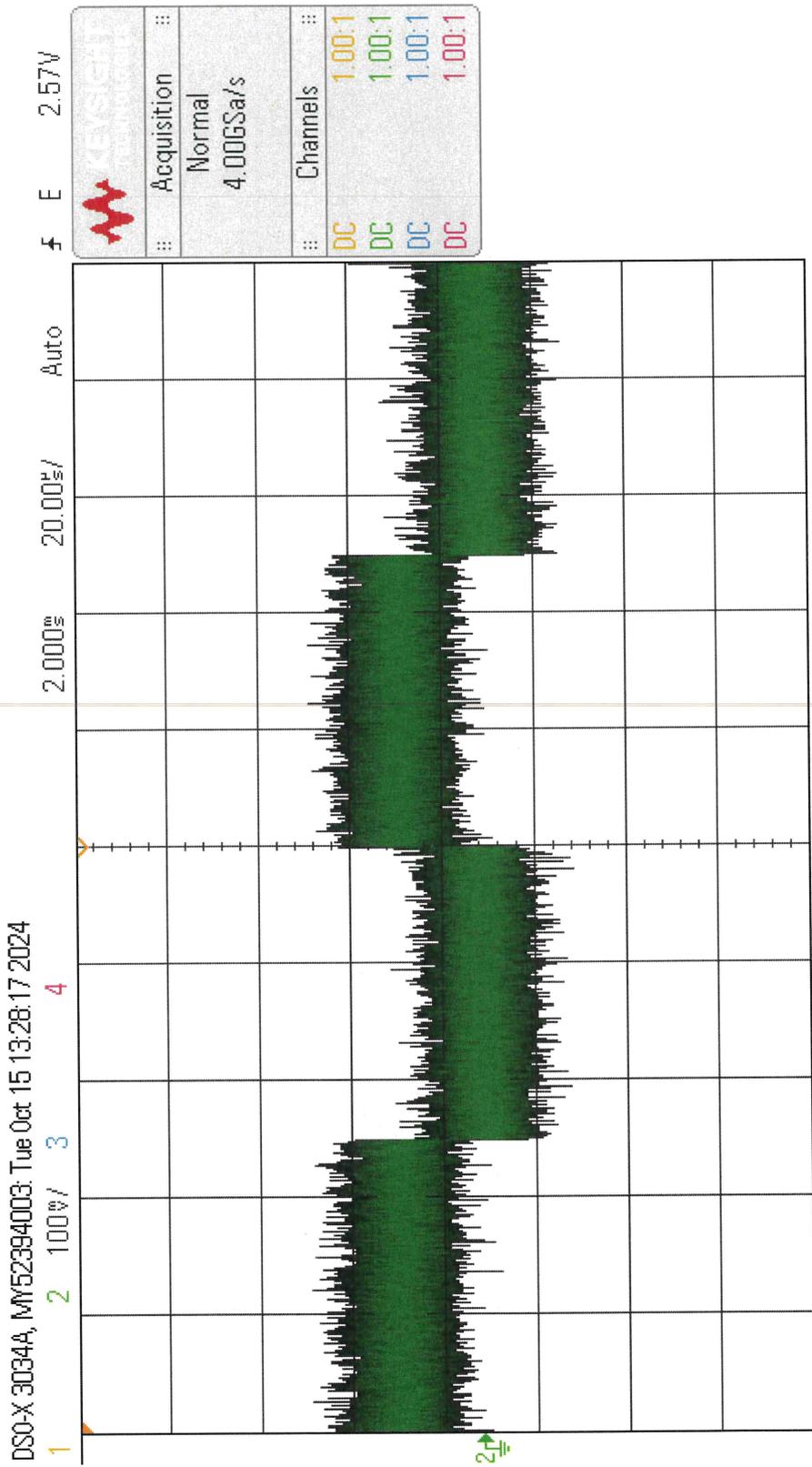
Temperature: +25C

VSWR GRAPH



PL 44918

TSS -71 dbm

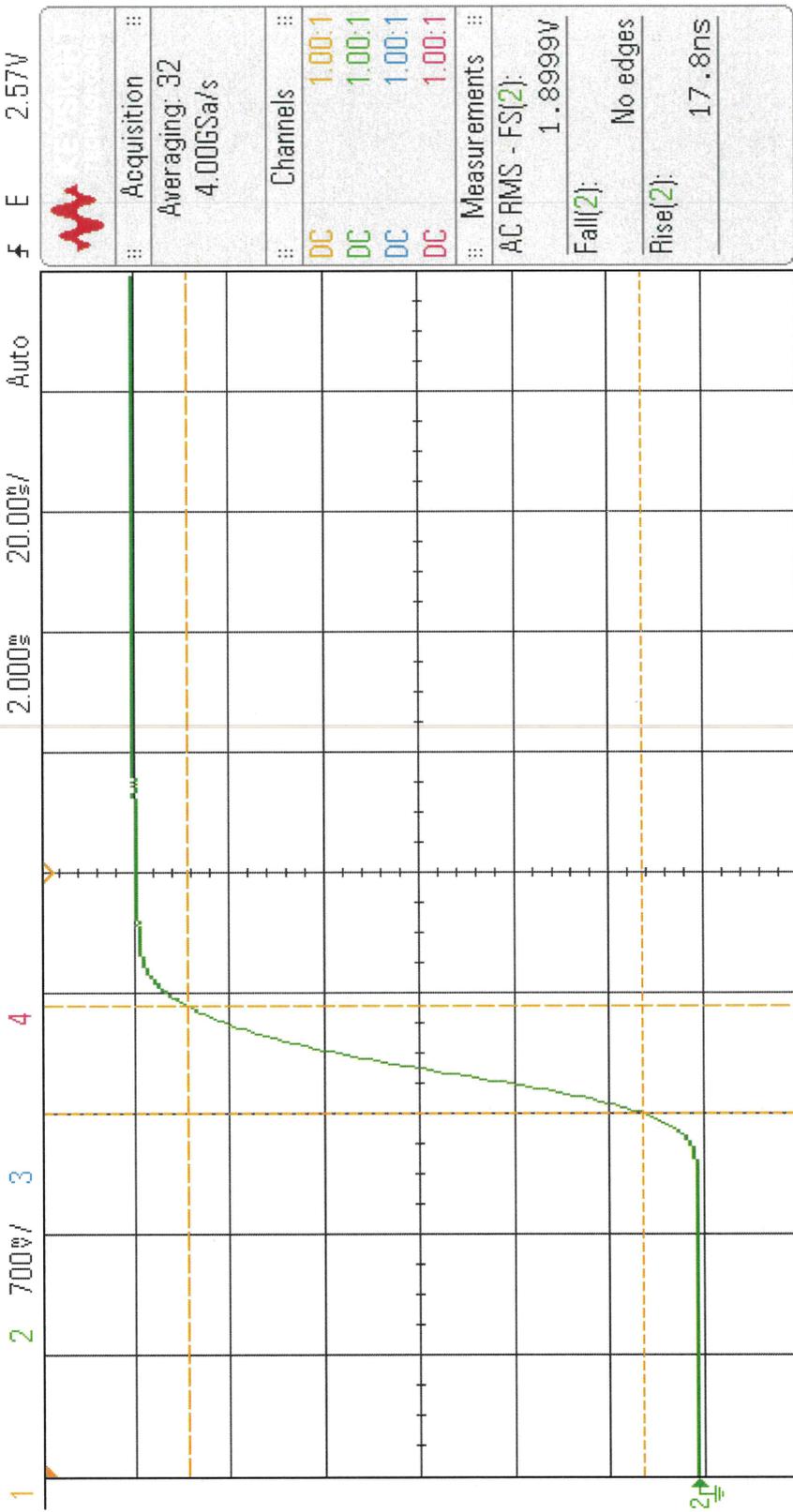


Cursors Menu
Mode Off

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

PL44918
settle

DSO-X 3034A, MY52394003: Tue Oct 15 13:22:37 2024

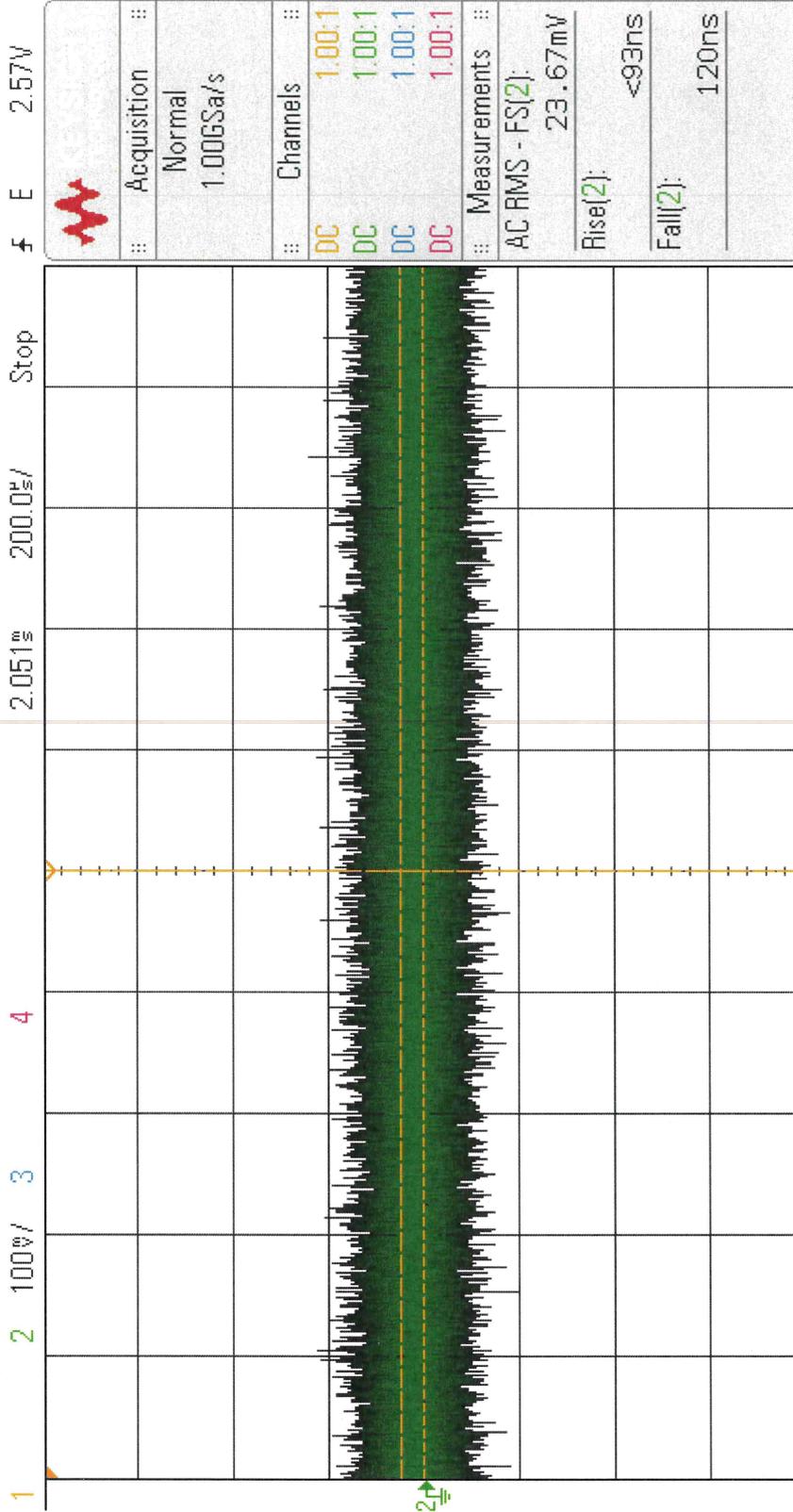


Measurement Menu

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

PL44918,
RMS noise

DSO-X 3034A, MY52394003, Tue Oct 15 13:25:30 2024



Acquire Menu



Acq Mode
Normal

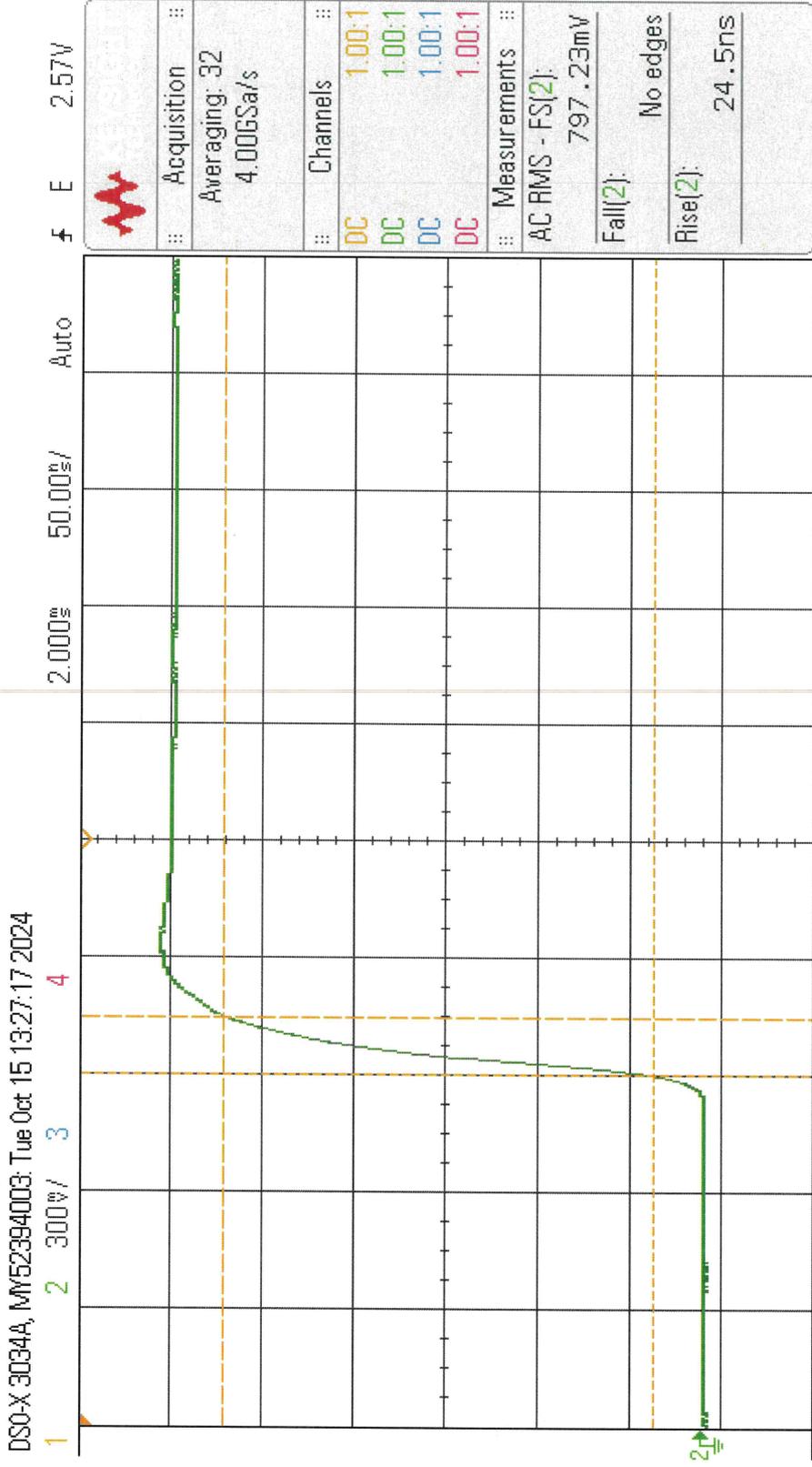


Avgs
32

Segmented



PL 44918
RiseTime - 45dbm

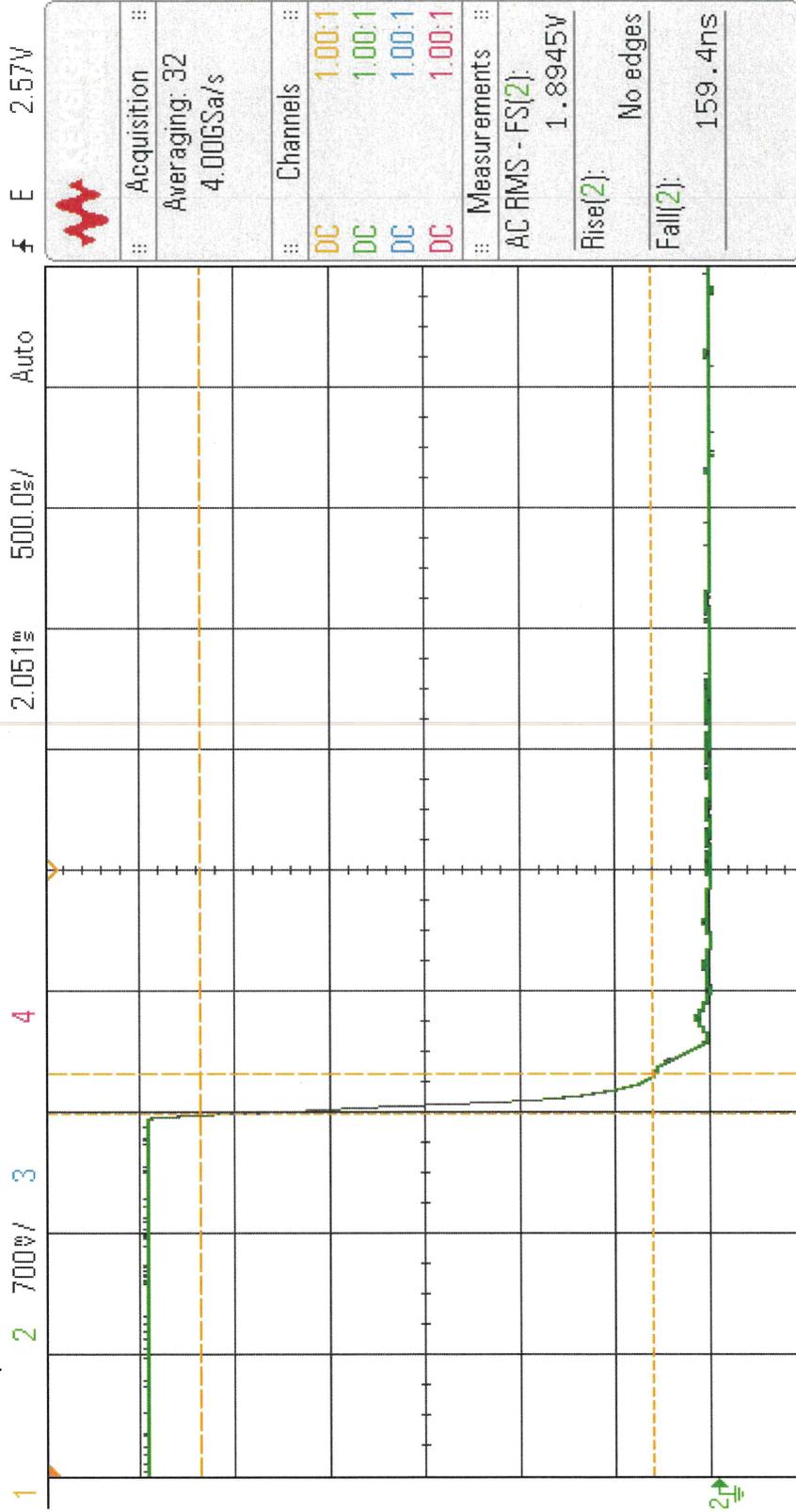


Measurement Menu

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

PL44918
Recovery Fall

DSO-X 3034A, MY62394003: Tue Oct 15 13:24:13 2024



Measurement Menu

Source 2

Type: Fall

Add Measurement

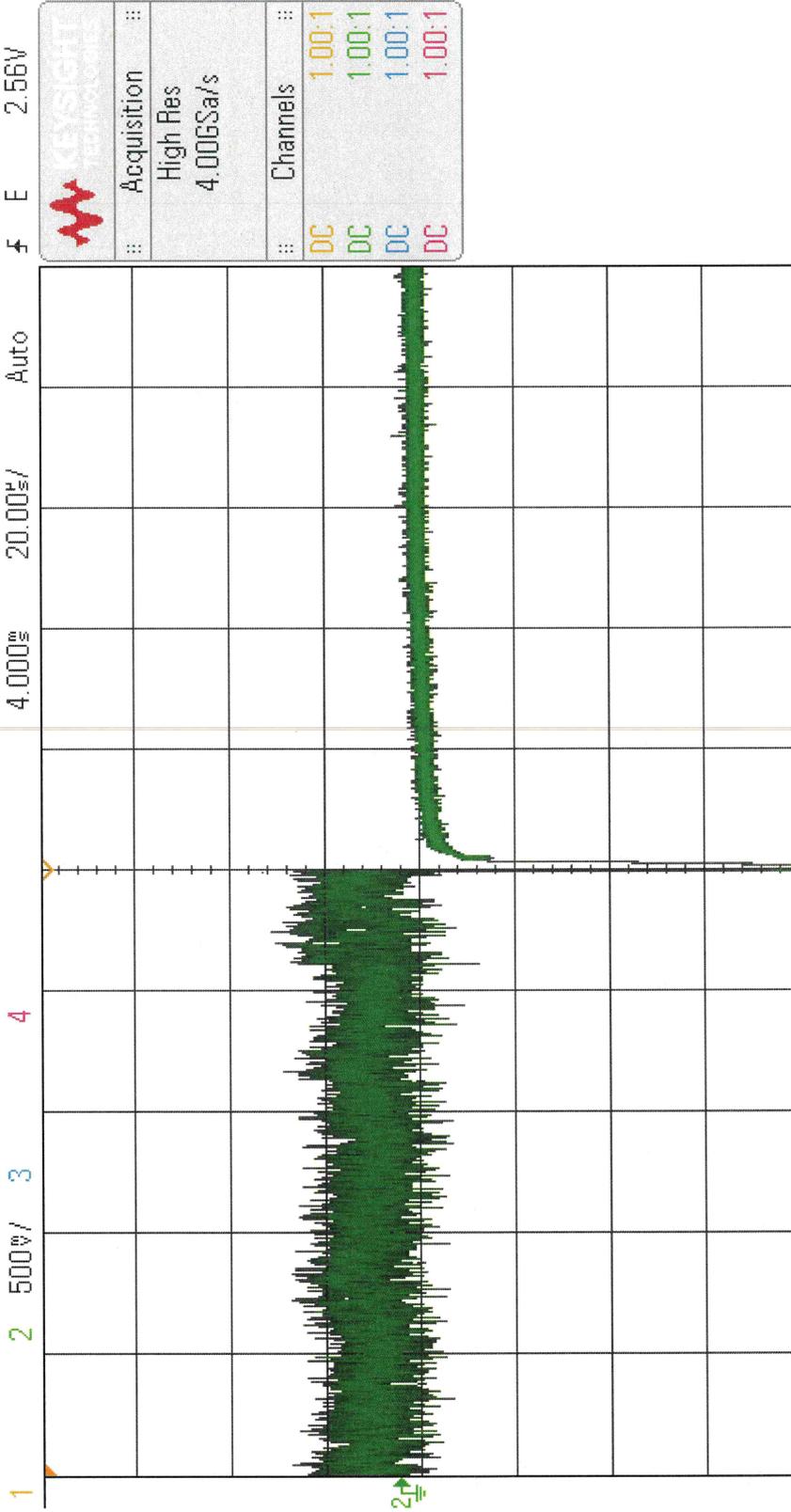
Settings

Clear Meas

Statistics

PL44918
CW Recovery

DSO-X 3034A, MY52394003: Tue Oct 15 13:18:51 2024



Save to file = pl44918_cw_recover

Save

Recall

Default/Erase

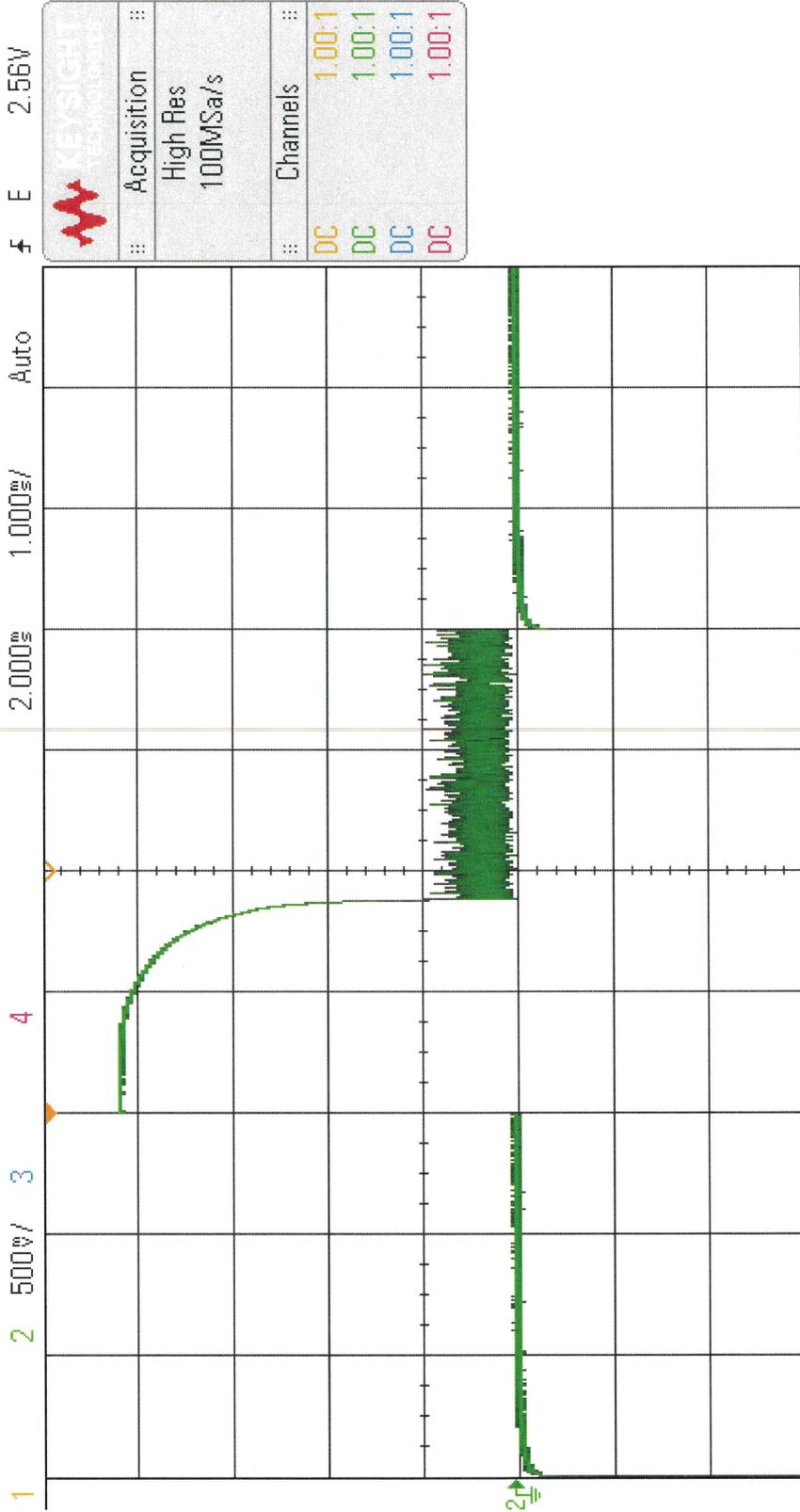
Press to

Save

PL44918

cu Immune

DSO-X 3034A, MY52394003: Tue Oct 15 13:19:56 2024



KEYSIGHT
TECHNOLOGIES

Acquisition
High Res
100MSa/s

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

Save to file = pl44918_cw_immune

Save

Recall

Default/Erase

Press to Save