



**Summary Data
For
ERDLVA-2G6G-70-50MV**

Customer: _____	Tested By: <u>DA</u>
SO No: _____	Temperature: <u>-40C, 25C, 85C</u>
Model No: <u>ERDLVA-2G6G-70-50MV</u>	Date: <u>12/21/2023</u>
Serial No: <u>PL40609/2351</u>	Drawing No: <u>27644580</u> Rev: <u>A1</u>

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC Pl. QA3
1	Frequency Range:	2 to 6 GHz	2 to 6 GHz	
2	Frequency Flatness:	±1.75 dB Typ. ±2.0 dB Max. (@ -20dBm)	±0.58 dB	
3	Output Noise Level:	150 mV P-P (Includes offset)	147 mV P-P	
4	Dynamic Range:	70 dB Min.	70 dB	
5	TSS:	-70 dBm @ +85°C	-71 dBm	
6	Log Dynamic Range:	-65 dBm to +5 dBm	-65 dBm to +5 dBm	
7	Log Slope:	50 mV/dB ±4.0 mV/dB	48.1 mV/dB ± 0.0/-1.9 mV/dB	
8	Log Linearity:	±1.5 dB Max.	+0.80/-0.85 dB	
9	Log Accuracy:	±1.5 dB Max. ±2.0 dB With Temp	+1.32 / -1.13dB +1.33 / -1.48dB	
10	Output Stability VS Temp:	±1.0 dB	<1.0dB	
11	Settling Time:	10% to 1 dB, 40 ns Max.	33 ns	
12	Recovery Time (1 dB Below Peak to 1 dB)	350 ns Max. (0 dBm is PW= 100 us)	230 ns	
13	VSWR:	2.5:1 Max.	1.22:1	
14	Max Input Level:	+20 dBm CW	PASS	
15	Propagation Delay:	50% RF to 10% Video	PASS	
16	DC Offset:	±50 mV Max.	± 48 mV	



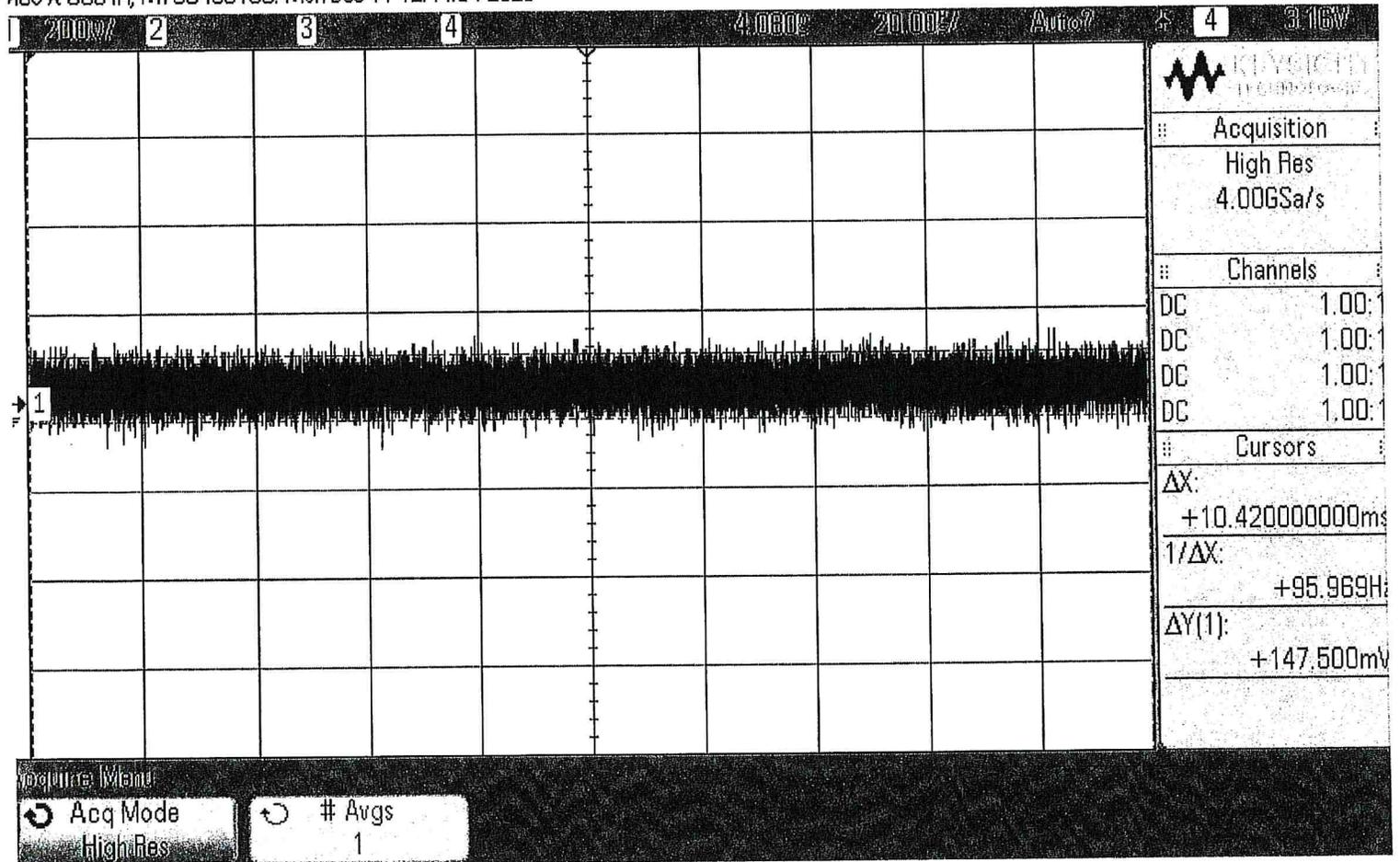
**Summary Data
For
ERDLVA-2G6G-70-50MV**

17	Pulse Width Range:	50 ns to 250 us	PASS	PMI QA3
18	Rise Time:	10 ns Typ., 25 ns Max. (10% to 90%)	11.5 ns	
19	CW Immunity Time:	5 ms @ -40 dBm	2.5ms	
20	CW Immunity:	TSS to -40 dBm, (-30 dBm Goal)	-35 dBm	
21	CW Immunity Recovery Time:	150 us Max.	30 us	
22	Baseline Shift With CW:	3 dB Max. to -40 dBm	2.5 dB	
23	Pulse Droop:	PW= 100 us, PRI= 1 ms, Pin= -60 dBm 2.5 dB Max.	0.50 dB	
24	Output Matching Unit to Unit:	1.2 dB P-P Max. @ -20 dBm 2.4 dB P-P Max. @ 0 dBm	N/A	
25	Power Supply	+9 to +12 V @ 330 mA Max. -11.5 V to -15V @ 120 mA Max.	280 mA 60 mA	

QA/QC Approval: *K. [Signature]* Date: 12-22-23

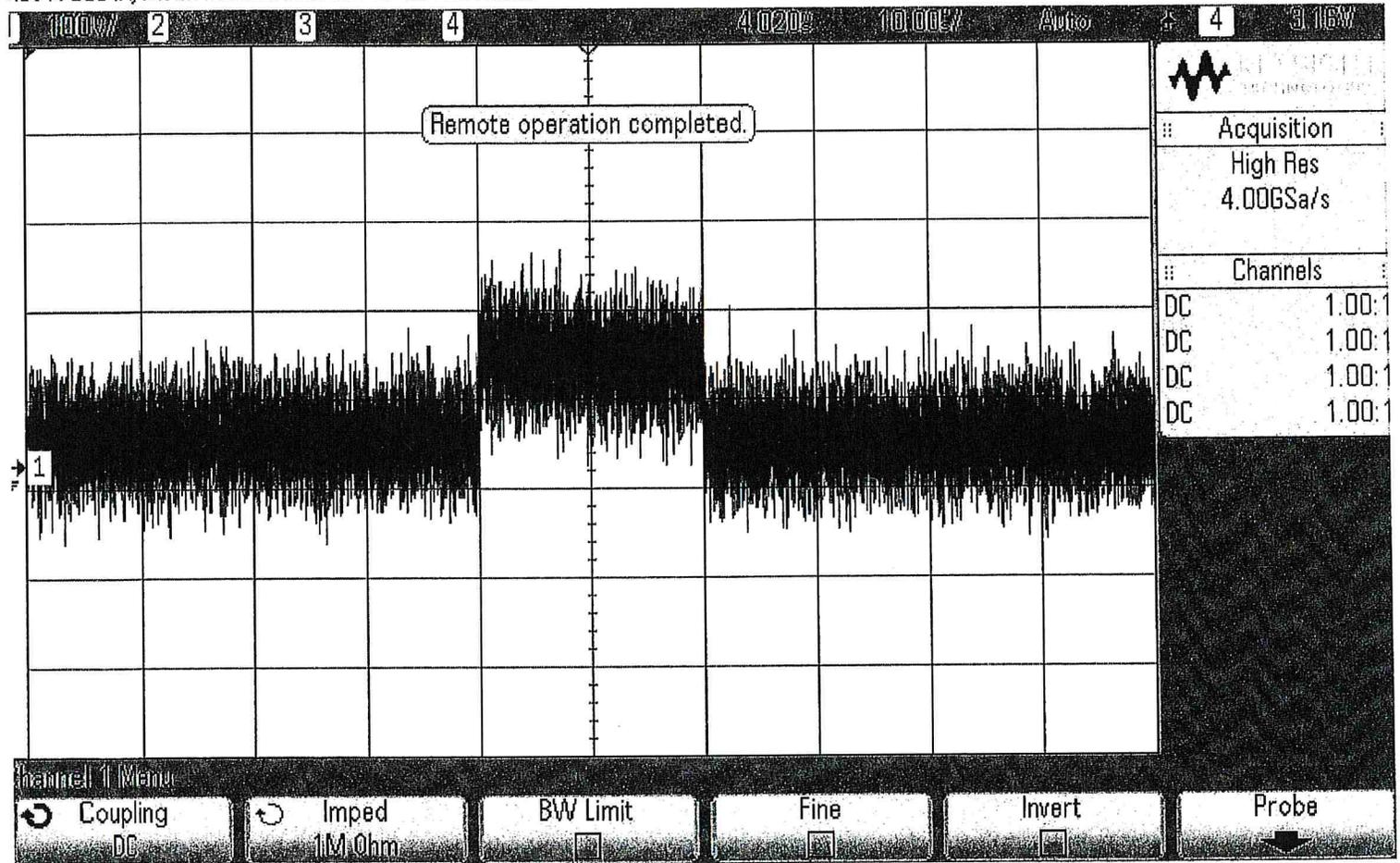
NOISE OUTPUT LEVEL

MSO-X 3054A, MY53400180: Mon Dec 11 12:44:04 2023



TSS (-71dBm)

MSO-X 3054A, MY53400180: Mon Dec 11 12:47:51 2023



LOG LINEARITY/ACCURACY +25C

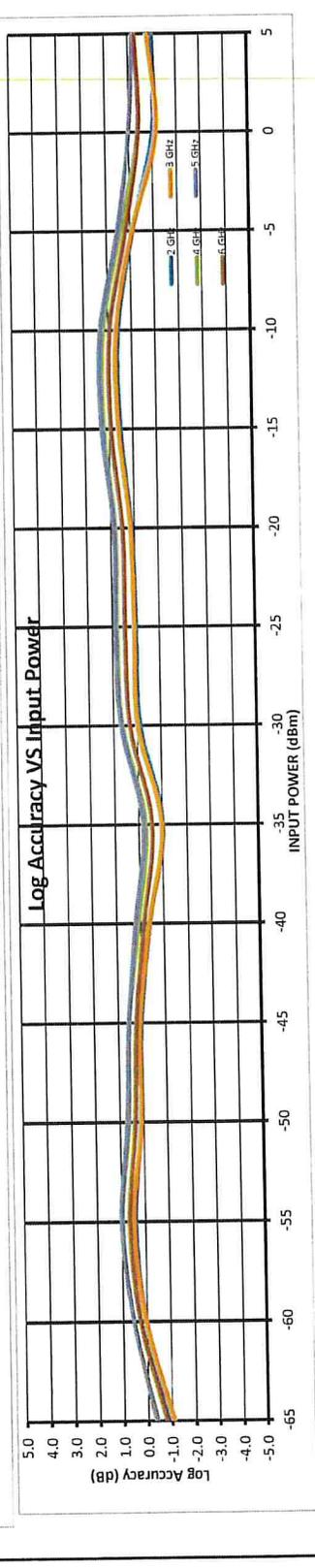
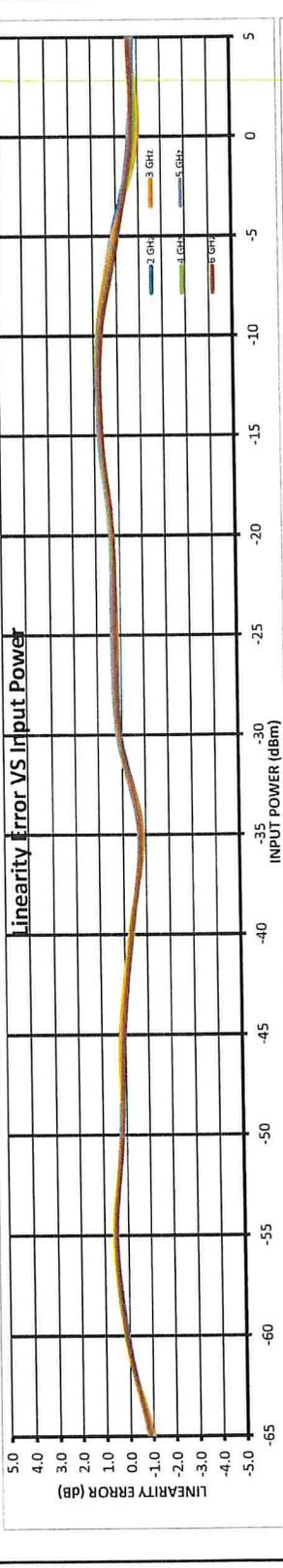


Model: ERDLVA-2G6G-70-50MW
 Serial No: PL40609
 Date: 12/13/2023
 Tested By: E.Benson
 Test Temp: +25°C

DC Offset: -11 mV

Frequency	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5
2 GHz	295	581	837	1063	1297	1516	1725	2007	2251	2496	2754	2995	3202	3397	3636
INTERCEPT (mV)	3433	3433	3433	3433	3433	3433	3433	3433	3433	3433	3433	3433	3433	3433	3433
SLOPE (mV/dB)	47.64	47.64	47.64	47.64	47.64	47.64	47.64	47.64	47.64	47.64	47.64	47.64	47.64	47.64	47.64
MAX LIN ERROR	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
MAX ACC ERROR	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02
3 GHz	289	581	841	1062	1301	1517	1728	2013	2255	2499	2759	3000	3204	3392	3647
INTERCEPT (mV)	3437	3437	3437	3437	3437	3437	3437	3437	3437	3437	3437	3437	3437	3437	3437
SLOPE (mV/dB)	47.72	47.72	47.72	47.72	47.72	47.72	47.72	47.72	47.72	47.72	47.72	47.72	47.72	47.72	47.72
MAX LIN ERROR	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
MAX ACC ERROR	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
4 GHz	321	605	864	1087	1322	1539	1760	2043	2280	2529	2788	3026	3227	3428	3672
INTERCEPT (mV)	3466	3466	3466	3466	3466	3466	3466	3466	3466	3466	3466	3466	3466	3466	3466
SLOPE (mV/dB)	47.77	47.77	47.77	47.77	47.77	47.77	47.77	47.77	47.77	47.77	47.77	47.77	47.77	47.77	47.77
MAX LIN ERROR	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
MAX ACC ERROR	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23	1.23
5 GHz	323	605	866	1090	1323	1545	1765	2046	2293	2532	2792	3031	3233	3446	3676
INTERCEPT (mV)	3474	3474	3474	3474	3474	3474	3474	3474	3474	3474	3474	3474	3474	3474	3474
SLOPE (mV/dB)	47.88	47.88	47.88	47.88	47.88	47.88	47.88	47.88	47.88	47.88	47.88	47.88	47.88	47.88	47.88
MAX LIN ERROR	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
MAX ACC ERROR	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
6 GHz	303	592	850	1074	1308	1528	1747	2028	2274	2515	2774	3013	3217	3422	3672
INTERCEPT (mV)	3459	3459	3459	3459	3459	3459	3459	3459	3459	3459	3459	3459	3459	3459	3459
SLOPE (mV/dB)	47.92	47.92	47.92	47.92	47.92	47.92	47.92	47.92	47.92	47.92	47.92	47.92	47.92	47.92	47.92
MAX LIN ERROR	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
MAX ACC ERROR	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94

RF Input Power (dBm) | Measured Value (mV) | Error (mV) | LINEARITY ERROR (dB) | LOG ACCURACY (dB)



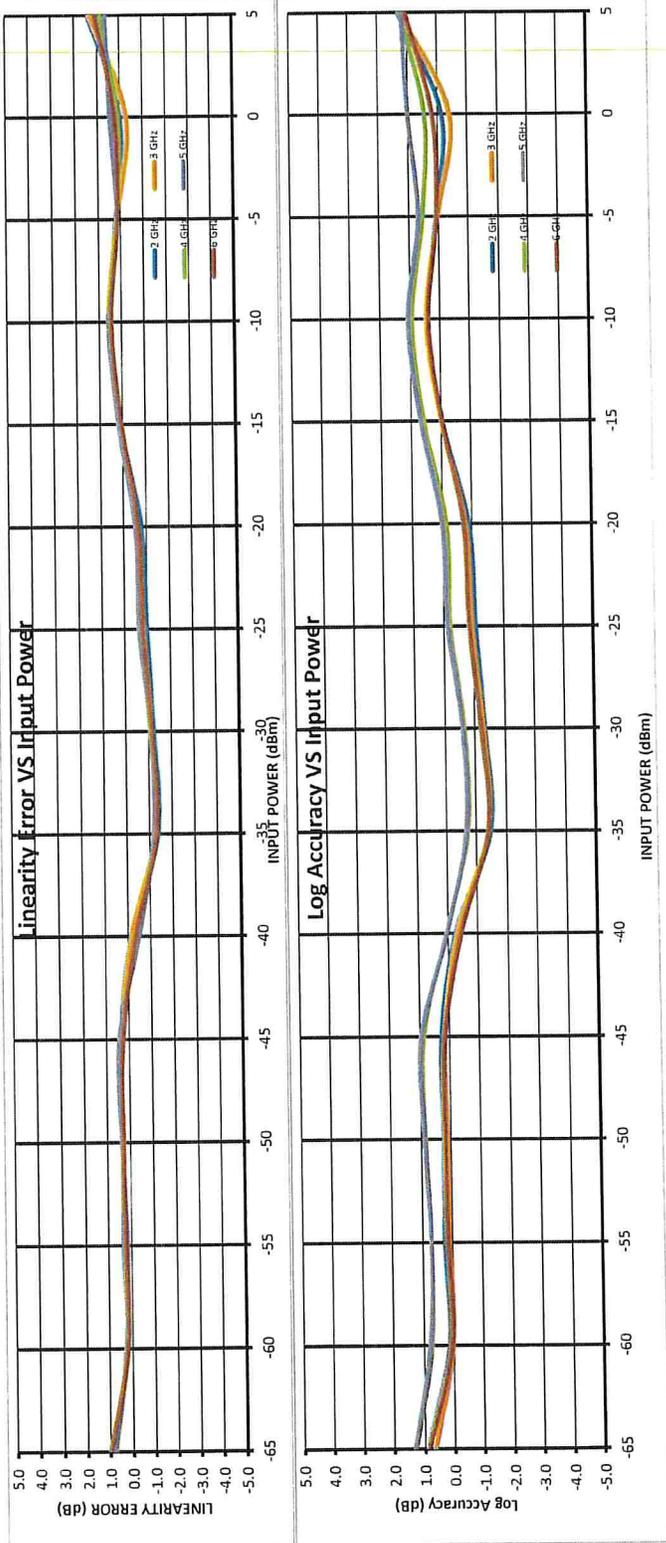
Avg. Slope: 47.8 mV/dB | Flatness dB: +0.57 dB

Model: ERDLVA-2G6G-70-50MV
 Serial No: PL40609
 Date: 12/11/2023
 Tested By: DA
 Test Temp: -40°C



DC Offset: 45 mV

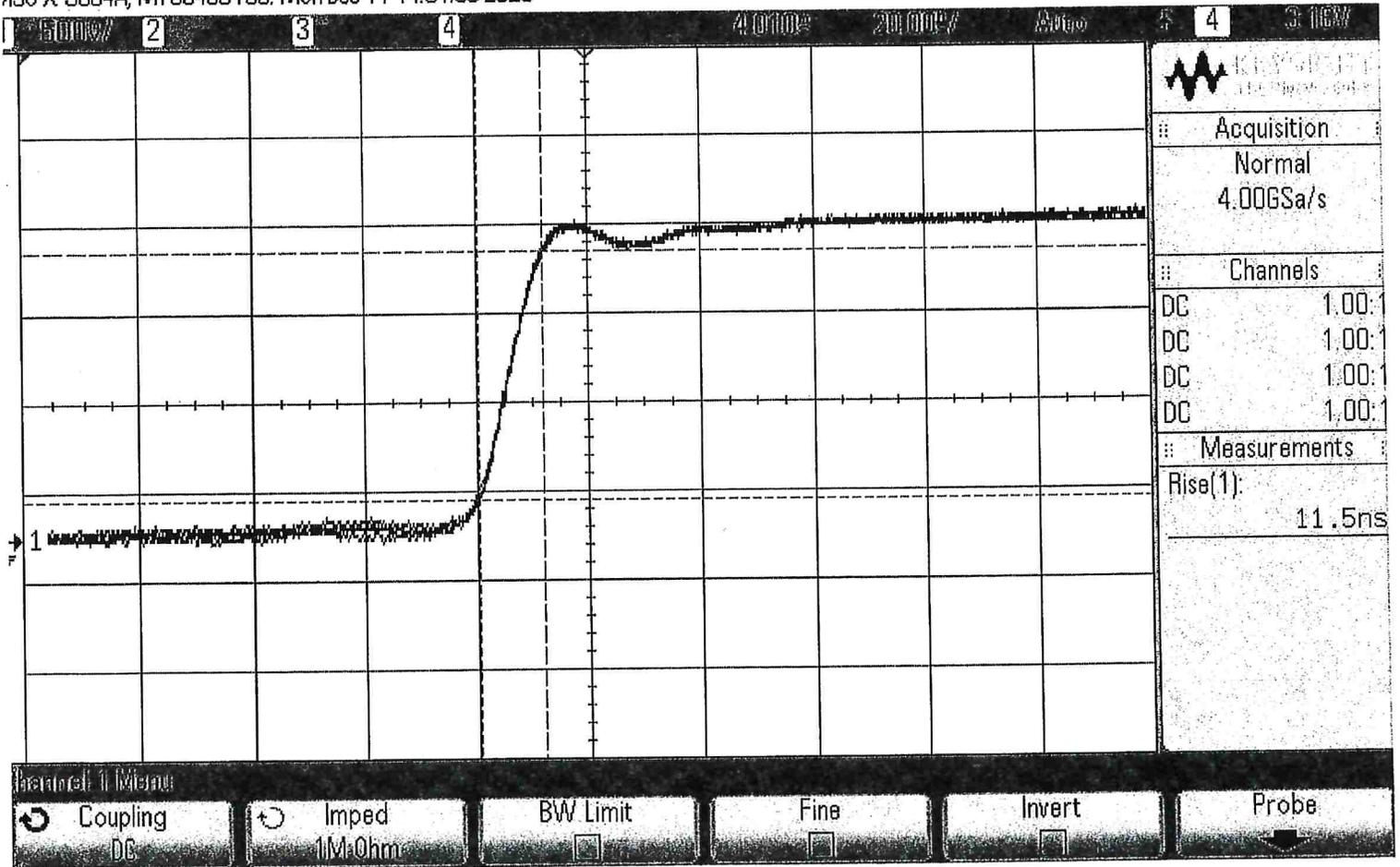
Frequency	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5
2 GHz	373	577	822	1061	1303	1518	1699	1946	2198	2447	2728	2991	3214	3443	3752
INTERCEPT (mV)	3444														
SLOPE (mV/dB)	47.97														
MAX LIN ERROR	1.42														
MAX ACC ERROR	1.48														
3 GHz	362	572	815	1056	1298	1515	1703	1949	2205	2453	2730	2992	3212	3431	3749
INTERCEPT (mV)	3444														
SLOPE (mV/dB)	48.05														
MAX LIN ERROR	1.34														
MAX ACC ERROR	1.39														
4 GHz	392	605	844	1091	1332	1533	1735	1979	2240	2484	2758	3015	3236	3471	3749
INTERCEPT (mV)	3467														
SLOPE (mV/dB)	47.88														
MAX LIN ERROR	1.18														
MAX ACC ERROR	1.29														
5 GHz	394	608	844	1093	1336	1532	1738	1982	2244	2491	2763	3021	3243	3498	3747
INTERCEPT (mV)	3476														
SLOPE (mV/dB)	48.02														
MAX LIN ERROR	1.20														
MAX ACC ERROR	1.33														
6 GHz	372	574	818	1060	1298	1509	1703	1952	2209	2456	2729	2989	3214	3459	3741
INTERCEPT (mV)	3447														
SLOPE (mV/dB)	48.06														
MAX LIN ERROR	1.30														
MAX ACC ERROR	1.39														
Avg. Slope: 48 mV/dB	0.33	0.38	0.30	0.39	0.40	0.25	0.41	0.38	0.48	0.46	0.36	0.33	0.32	0.70	0.11



LOG LINEARITY/ACCURACY -40C

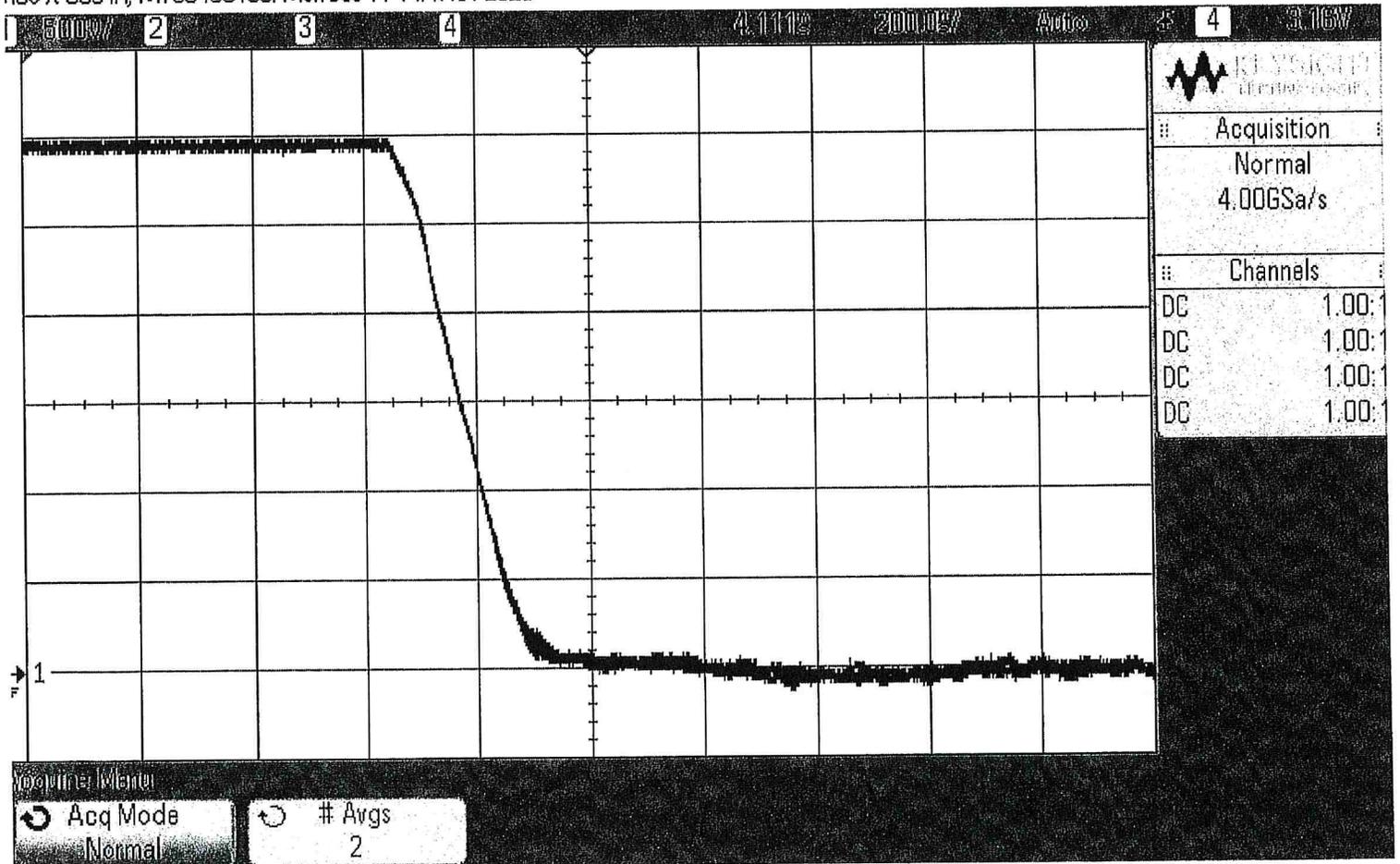
SETTLING TIME / RISE TIME

MSO-X 3054A, MY53400180: Mon Dec 11 14:51:33 2023

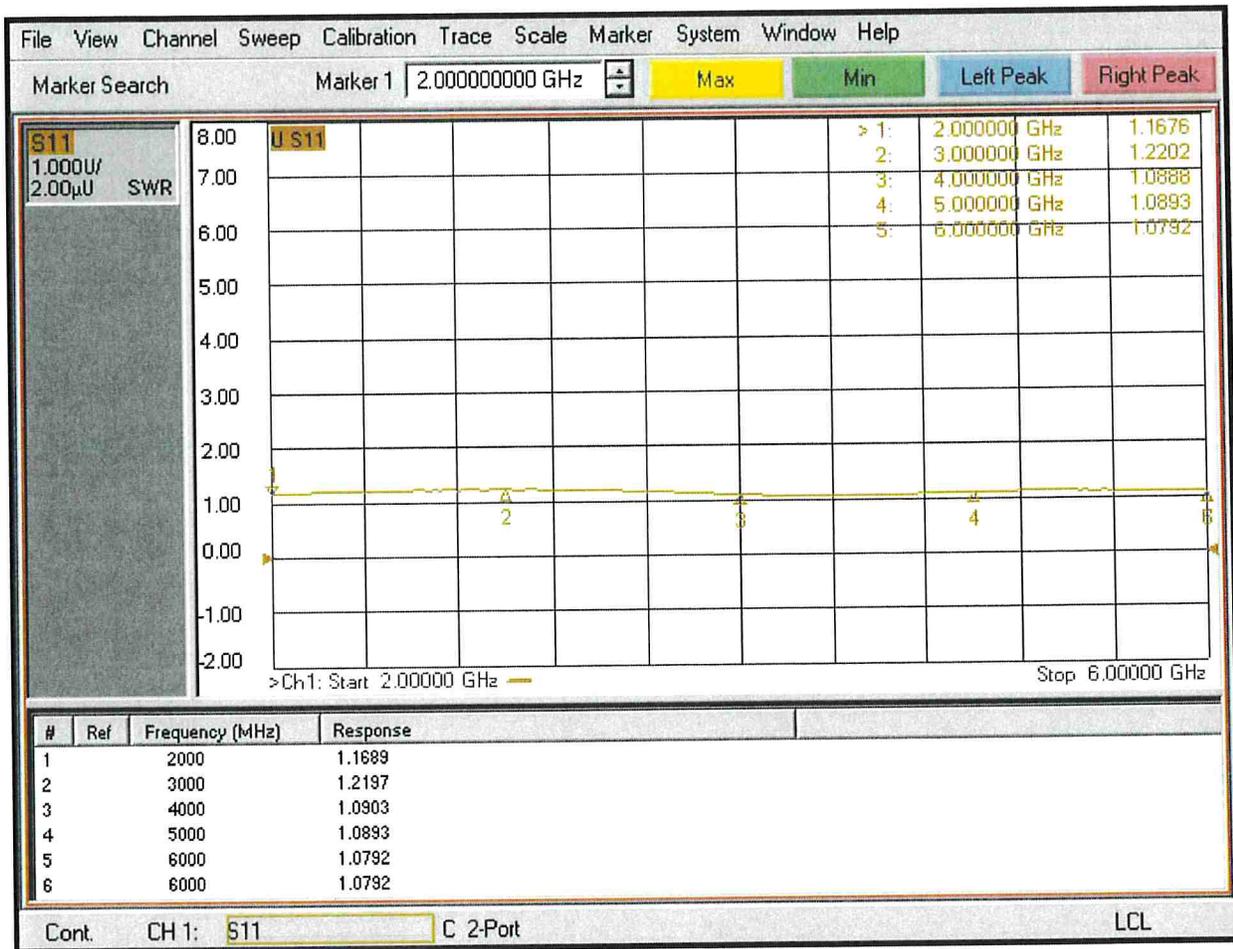


RECOVERY TIME

MSO-X 3054A, MY53400180: Mon Dec 11 14:47:01 2023

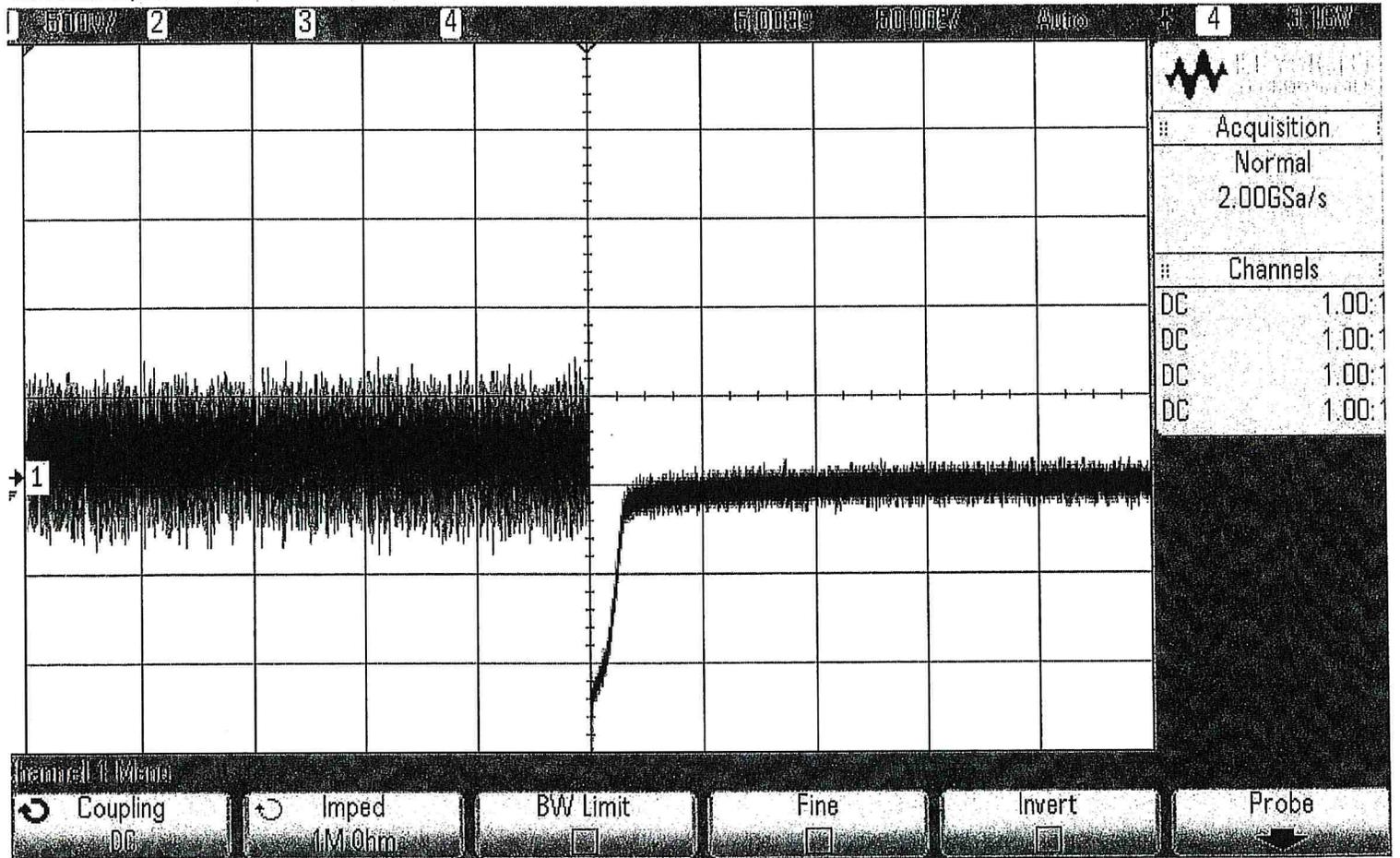


VSWR



CW RECOVERY TIME

ASO-X 3054A, MY53400180: Fri Dec 08 18:55:01 2023



PULSE DROOP

MSO-X 3054A, MY53400180: Fri Dec 08 19:06:37 2023

