

# SUMMARY TEST DATA ON GMDA-S4080-60

CUSTOMER: \_\_\_\_\_  
 SO: \_\_\_\_\_  
 MODEL NO: GMDA-S4080-60  
 SERIAL NO: PL40217/2317

TESTED BY: M. Ayala  
 TEMPERATURE: +25°C  
 DATE: 4/27/2023  
 DRAWING NO: 27645260      REV: A1

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE	4 GHz TO 8 GHz	4 GHz TO 8 GHz	PMI QA3
2	TSS	-60 dBm Min	-68 dBm	
3	INPUT POWER HANDLING	+23 dBm CW	PASS	
3	VIDEO LOG RANGE	-55 dBm to +5 dBm	PASS	
4	VIDEO LOG LINEARITY	±1.85 dB Over Temp	0.9 dBm	
5	VIDEO LOG SLOPE	25 ± 1mV / dB Nom	24.5 mV	
6	VIDEO FREQ FLATNESS	±2 dB Max	0.9 dB	
7	VIDEO RISE TIME	30ns Max	7.0 ns	
9	VIDEO FALL TIME	80ns Max	58.3 ns	
10	RECOVERY TIME	100ns Max	95 ns	
11	VIDEO OUTPUT LOAD IMPEDANCE	75 Ω	75Ω	
12	INPUT VSWR (50 Ω)	2.0:1 Max	1.66:1	
13	DC POWER	+11.4 to +15.75V, 460mA Max -11.4 to 15.75V, 150mA Max	+300mA /-50mA	

QA/QC Approval: \_\_\_\_\_

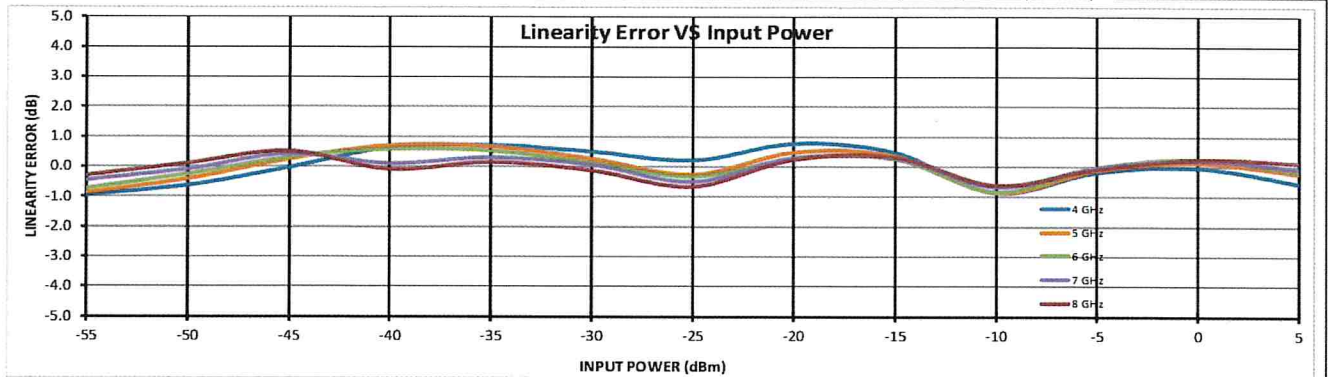
Date: \_\_\_\_\_



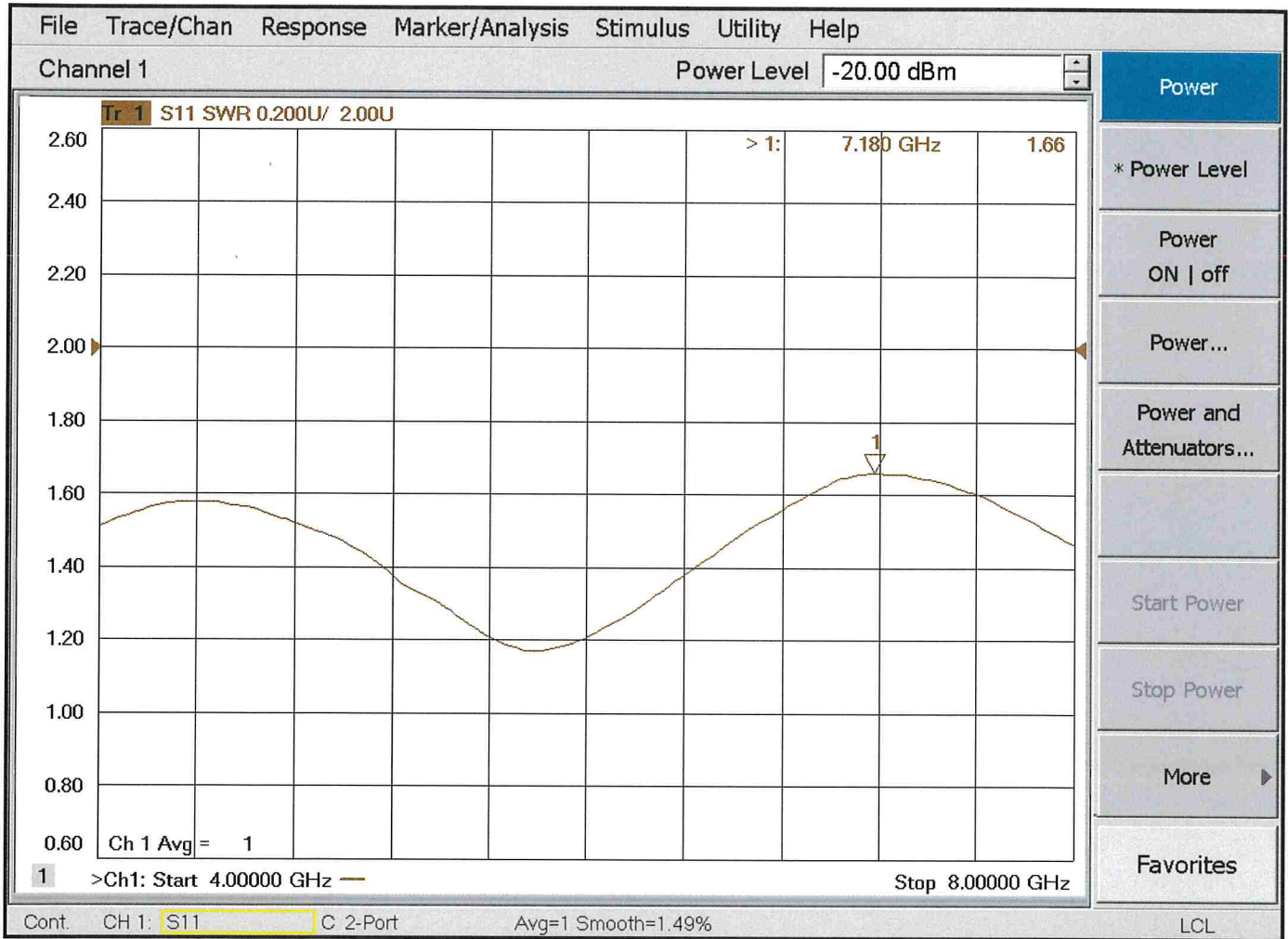
MODEL: GMDA-S4080-60  
SERIAL NO: PL40217  
DATE: 04-26-2023  
TESTED BY: M. Ayala  
TEST TEMP: +25°C

Frequency

			-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
4 GHz	INTERCEPT (mV)	1625	235	367	506	647	773	892	1009	1147	1264	1355	1496	1624	1735	Measured Value (mV)
	SLOPE (mV/dB)	24.8	-24	-16	-1	16	18	12	5	19	12	-21	-5	-1	-14	Error (mV)
	LIN. ERR. (dB)	0.9	-0.95	-0.64	-0.04	0.64	0.71	0.50	0.21	0.76	0.47	-0.86	-0.19	-0.04	-0.57	LINEARITY ERROR (dB)
5 GHz	INTERCEPT (mV)	1617	255	388	526	659	780	892	1001	1141	1260	1352	1492	1620	1733	Measured Value (mV)
	SLOPE (mV/dB)	24.4	-21	-10	6	17	16	6	-7	12	9	-21	-3	3	-6	Error (mV)
	LIN. ERR. (dB)	0.88	-0.88	-0.42	0.24	0.70	0.66	0.26	-0.27	0.47	0.35	-0.87	-0.13	0.12	-0.24	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	1619	266	399	534	662	782	894	1004	1140	1261	1356	1497	1625	1736	Measured Value (mV)
	SLOPE (mV/dB)	24.3	-18	-6	7	14	13	3	-8	7	6	-20	0	6	-4	Error (mV)
	LIN. ERR. (dB)	0.83	-0.73	-0.25	0.31	0.58	0.52	0.14	-0.33	0.27	0.26	-0.83	-0.02	0.25	-0.17	LINEARITY ERROR (dB)
7 GHz	INTERCEPT (mV)	1608	244	376	512	627	755	872	981	1124	1247	1346	1485	1614	1730	Measured Value (mV)
	SLOPE (mV/dB)	24.6	-11	-2	11	3	8	2	-12	8	8	-16	0	6	-1	Error (mV)
	LIN. ERR. (dB)	0.67	-0.45	-0.09	0.44	0.11	0.31	0.07	-0.50	0.31	0.31	-0.67	-0.02	0.23	-0.06	LINEARITY ERROR (dB)
8 GHz	INTERCEPT (mV)	1598	249	381	513	620	748	863	972	1116	1240	1339	1474	1604	1723	Measured Value (mV)
	SLOPE (mV/dB)	24.4	-7	3	13	-2	4	-3	-16	6	8	-15	-2	6	3	Error (mV)
	LIN. ERR. (dB)	0.65	-0.29	0.12	0.53	-0.08	0.17	-0.12	-0.65	0.25	0.34	-0.60	-0.07	0.26	0.14	LINEARITY ERROR (dB)
Avg. Slope: 24.5 mV/dB			0.6	0.7	0.6	0.9	0.7	0.6	0.8	0.6	0.5	0.3	0.5	0.4	0.3	Flatness dB: ±0.9 dB

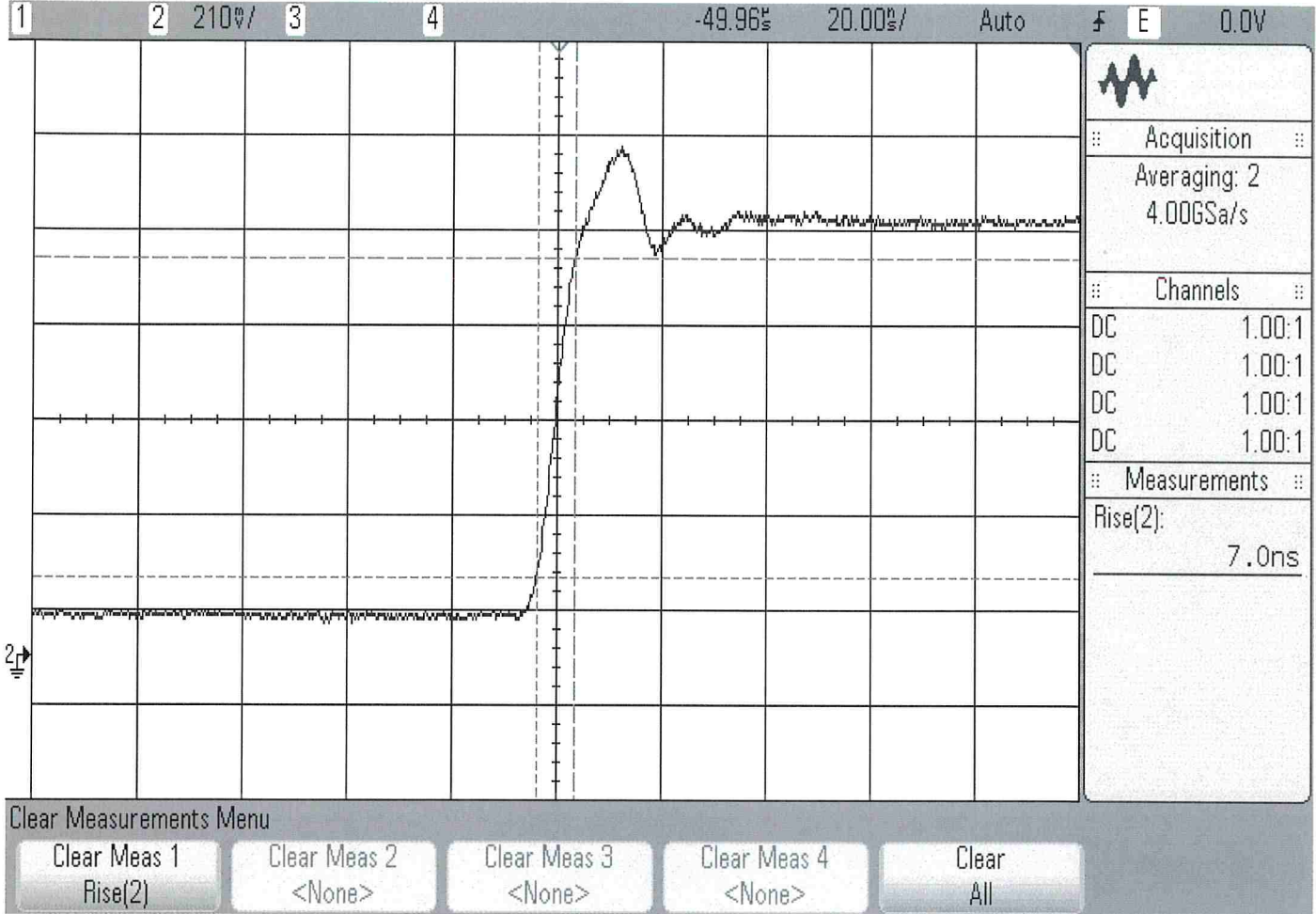


# VSWR



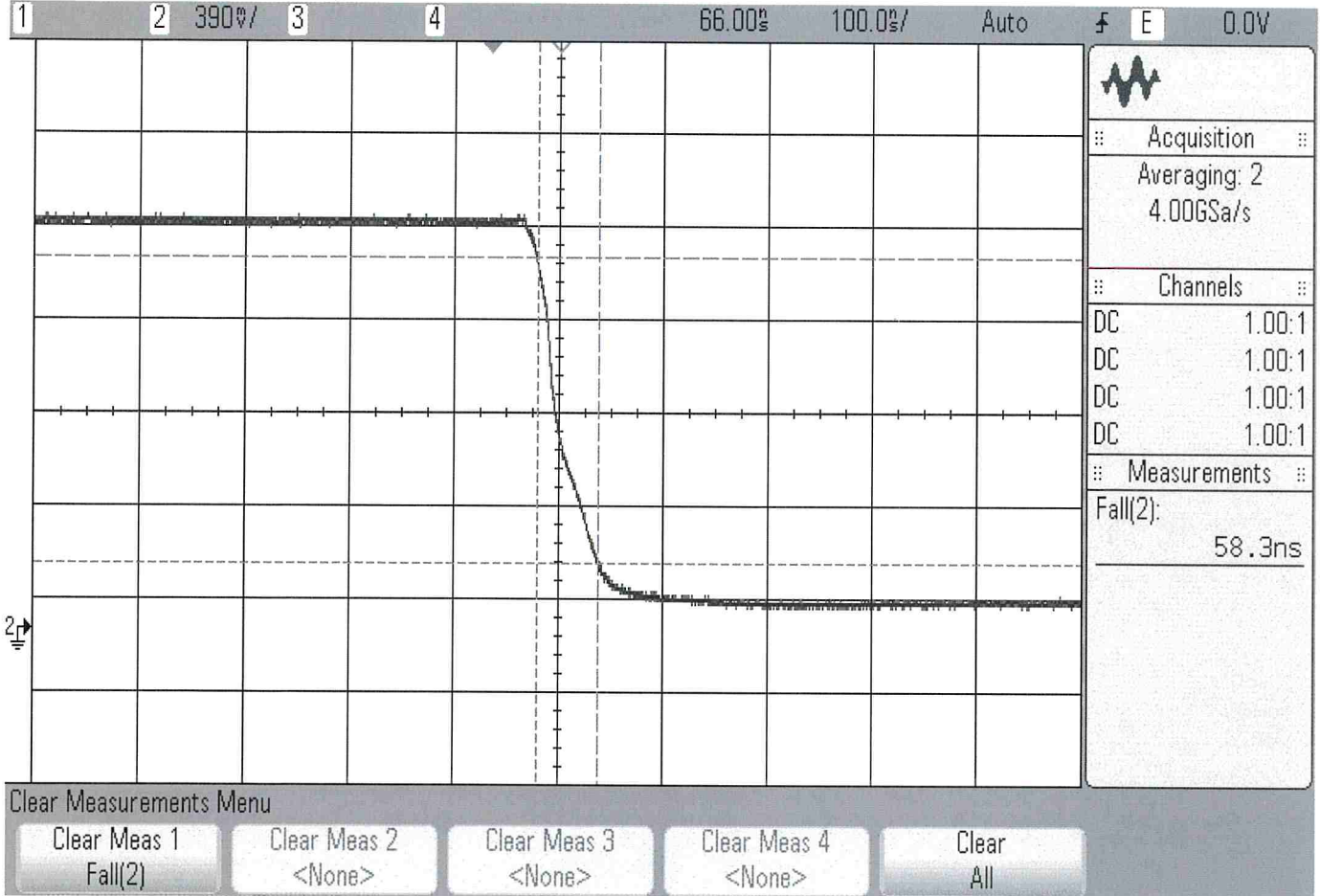
## Rise Time

MSO-X 3054A, MY53400180: Wed Apr 26 11:27:20 2023



# Fall Time

MSO-X 3054A, MY53400180: Wed Apr 26 11:29:04 2023



## TSS @ -68 dBm

MSO-X 3054A, MY53400180: Wed Apr 26 11:25:55 2023

