

# SUMMARY TEST DATA ON GMDA-S4080-60

CUSTOMER: \_\_\_\_\_  
 SO: 1  
 MODEL NO: GMDA-S4080-60  
 SERIAL NO: PL40219/2317

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	-66 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	1.23 dBm	
5	VIDEO LOG SLOPE	25 ± 1mV / dB Nom	24.7 mV	
6	VIDEO FREQ FLATNESS	±2 dB Max	1.1 dB	
7	VIDEO RISE TIME	30ns Max	7.0 ns	
9	VIDEO FALL TIME	80ns Max	77.5ns	
10	RECOVERY TIME	100ns Max	95 ns	
11	VIDEO OUTPUT LOAD IMPEDANCE	75 Ω	75Ω	
12	INPUT VSWR (50 Ω)	2.0:1 Max	1.50:1	
13	DC POWER	+11.4 to +15.75V, 460mA Max -11.4 to 15.75V, 150mA Max	+300mA /-50mA	

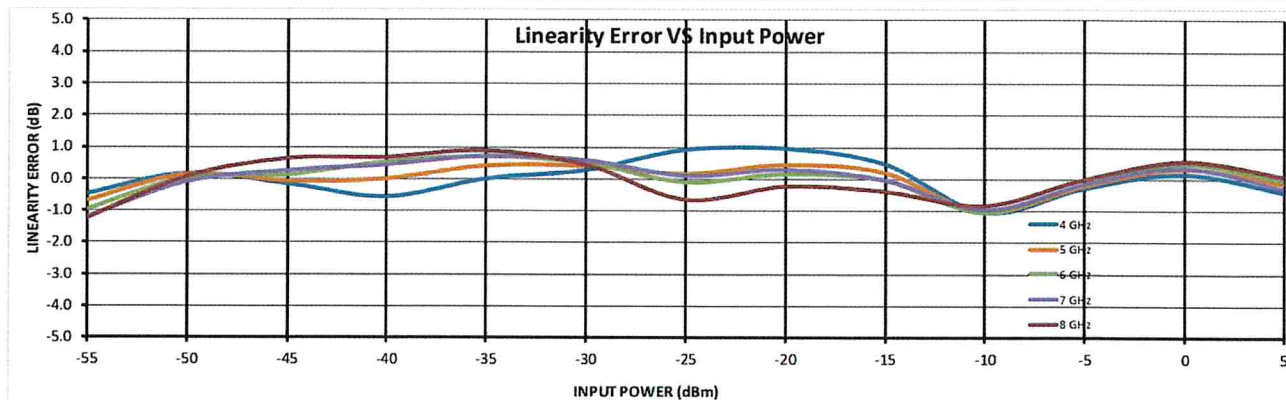
QA/QC Approval: *K. [Signature]*

Date: 4-28-23

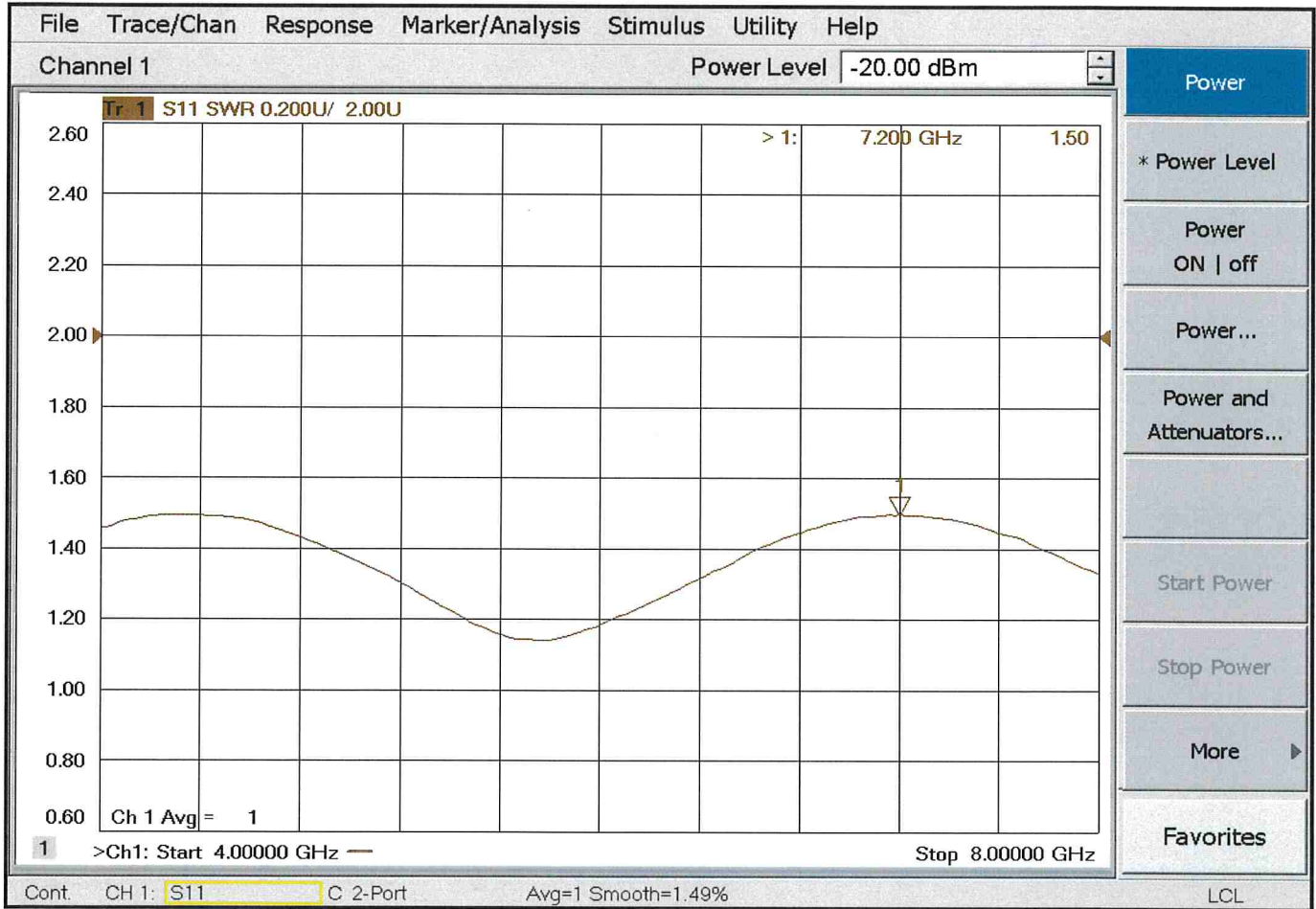
MODEL: GMDA-S4080-60  
SERIAL NO: PL40219  
DATE: 04-26-2023  
TESTED BY: M. Ayala  
TEST TEMP: +25°C



Frequency		-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
4 GHz	INTERCEPT (mV)	1625													Measured Value (mV)
	SLOPE (mV/dB)	24.8													Error (mV)
	LIN. ERR. (dB)	1.1													LINEARITY ERROR (dB)
		249	389	505	619	757	888	1028	1153	1265	1351	1494	1629	1739	
		-12	4	-4	-14	0	7	23	24	12	-26	-7	4	-10	
		-0.48	0.16	-0.16	-0.56	0.00	0.28	0.92	0.96	0.48	-1.05	-0.29	0.15	-0.41	
5 GHz	INTERCEPT (mV)	1619													Measured Value (mV)
	SLOPE (mV/dB)	24.4													Error (mV)
	LIN. ERR. (dB)	1.03													LINEARITY ERROR (dB)
		260	402	519	643	775	897	1013	1142	1258	1350	1492	1627	1738	
		-16	3	-2	0	10	10	4	11	5	-25	-5	8	-3	
		-0.68	0.14	-0.07	0.01	0.42	0.42	0.17	0.45	0.20	-1.03	-0.21	0.32	-0.14	
6 GHz	INTERCEPT (mV)	1624													Measured Value (mV)
	SLOPE (mV/dB)	24.4													Error (mV)
	LIN. ERR. (dB)	1.07													LINEARITY ERROR (dB)
		260	406	530	662	788	905	1012	1140	1257	1354	1498	1635	1744	
		-24	0	3	13	17	12	-3	3	-1	-26	-4	11	-2	
		-0.98	0.02	0.11	0.52	0.70	0.50	-0.11	0.14	-0.05	-1.07	-0.16	0.46	-0.06	
7 GHz	INTERCEPT (mV)	1624													Measured Value (mV)
	SLOPE (mV/dB)	25													Error (mV)
	LIN. ERR. (dB)	1.21													LINEARITY ERROR (dB)
		217	370	504	634	766	888	1001	1131	1248	1350	1495	1633	1742	
		-30	-2	6	11	18	15	3	7	-1	-24	-4	9	-8	
		-1.21	-0.10	0.25	0.45	0.72	0.59	0.10	0.30	-0.03	-0.96	-0.17	0.35	-0.30	
8 GHz	INTERCEPT (mV)	1611													Measured Value (mV)
	SLOPE (mV/dB)	24.8													Error (mV)
	LIN. ERR. (dB)	1.23													LINEARITY ERROR (dB)
		218	374	512	637	766	879	976	1110	1230	1343	1487	1625	1737	
		-31	2	16	17	22	11	-16	-6	-10	-20	0	14	2	
		-1.23	0.06	0.63	0.68	0.88	0.45	-0.64	-0.23	-0.39	-0.83	-0.01	0.56	0.08	
Avg. Slope: 24.7 mV/dB		0.9	0.7	0.5	0.9	0.6	0.5	1.1	0.9	0.7	0.2	0.2	0.2	0.1	Flatness dB: ±1.1 dB

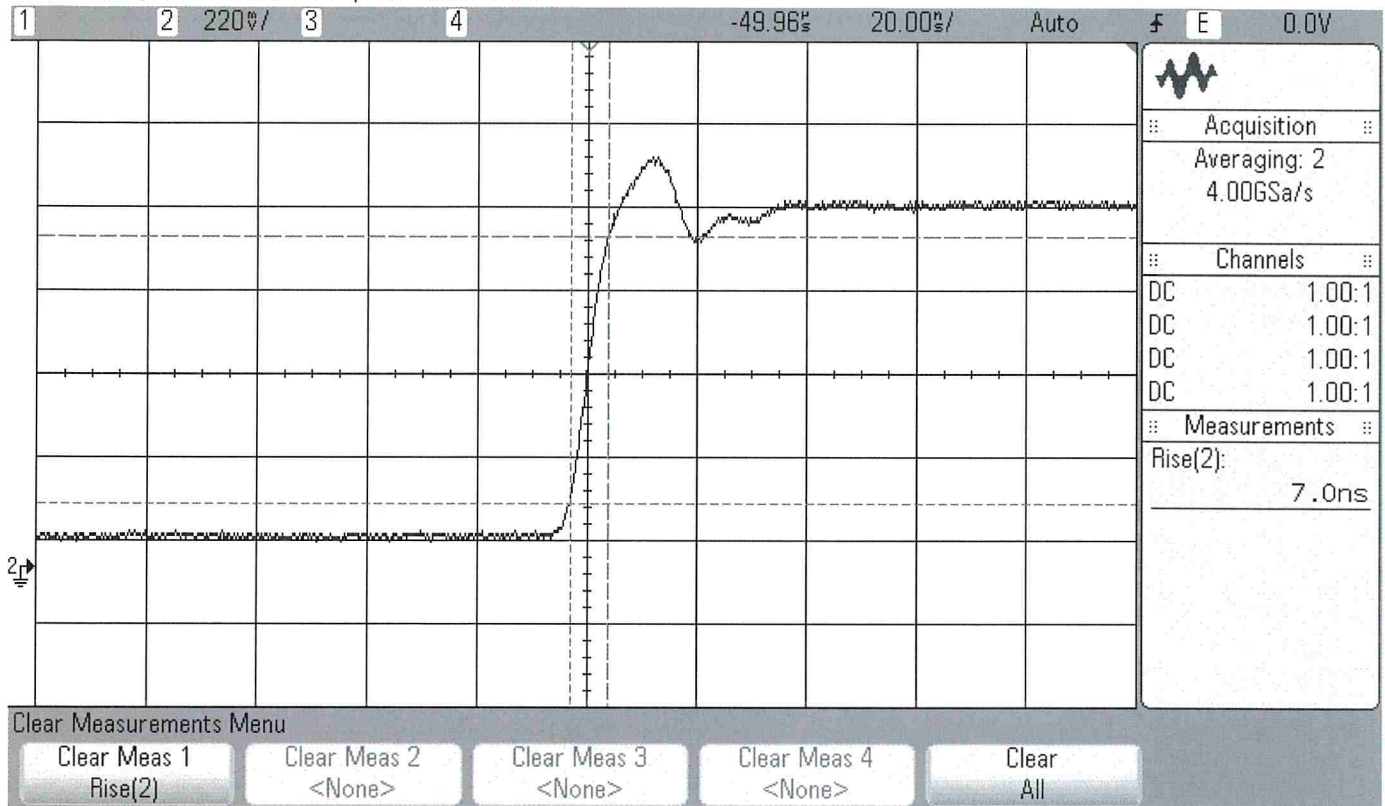


# VSWR



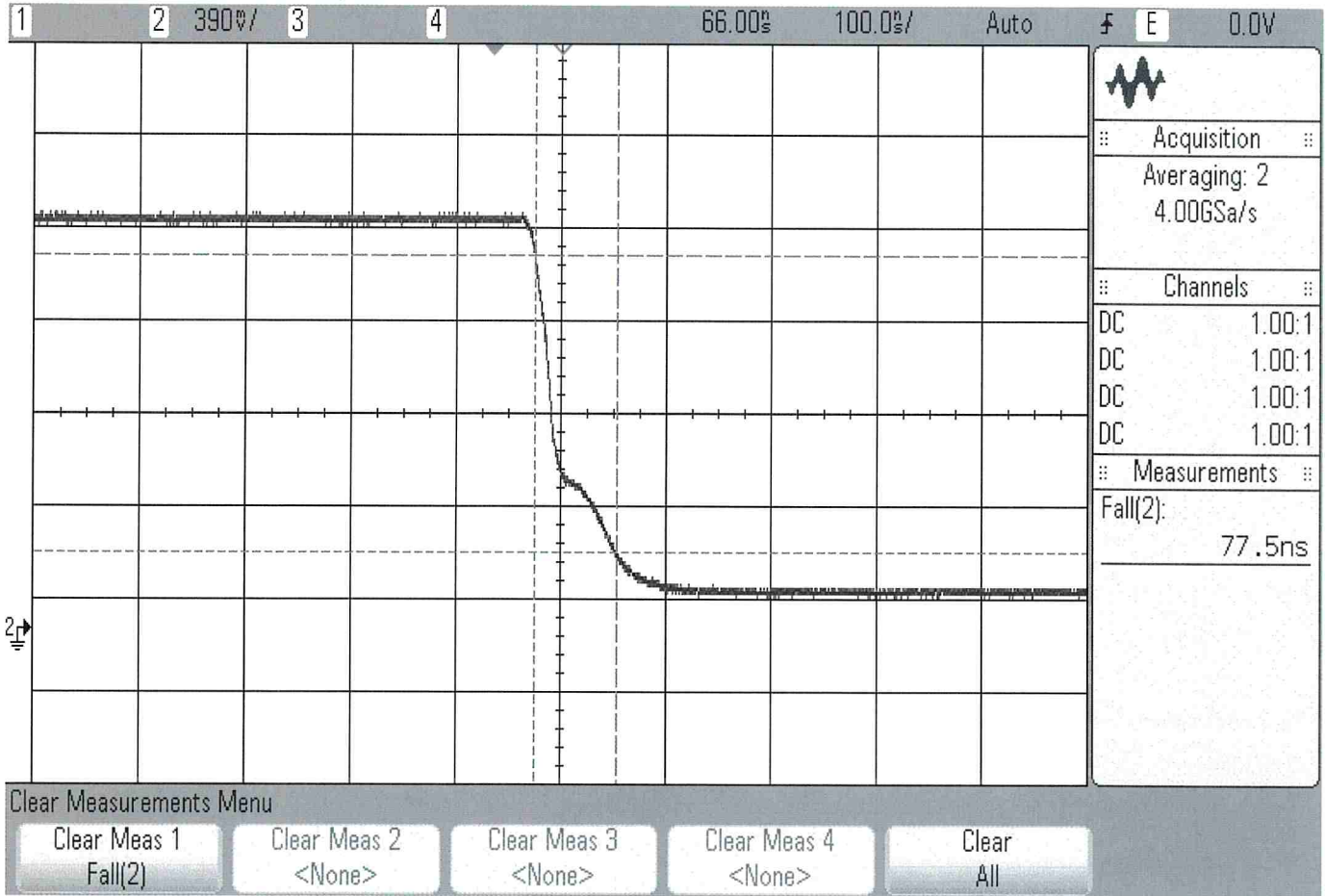
# Rise Time

MSO-X 3054A, MY53400180: Wed Apr 26 11:36:07 2023



## Fall Time

MSO-X 3054A, MY53400180: Wed Apr 26 11:32:04 2023



## TSS @ -66 dBm

MSO-X 3054A, MY53400180: Wed Apr 26 11:38:08 2023

