

# SUMMARY TEST DATA ON GMDA-S4080-60

CUSTOMER: \_\_\_\_\_  
 SO: \_\_\_\_\_  
 MODEL NO: GMDA-S4080-60  
 SERIAL NO: PL40222/2320

TESTED BY: M. Ayala  
 TEMPERATURE: +25°C  
 DATE: 5/15/2023  
 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	1.0 dBm	
5	VIDEO LOG SLOPE	25 ± 1mV / dB Nom	24.9 mV	
6	VIDEO FREQ FLATNESS	±2 dB Max	0.9 dB	
7	VIDEO RISE TIME	30ns Max	9.5 ns	
9	VIDEO FALL TIME	80ns Max	76.3 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	1.57:1	
13	DC POWER	+11.4 to +15.75V, 460mA Max -11.4 to 15.75V, 150mA Max	+292mA /-50mA	

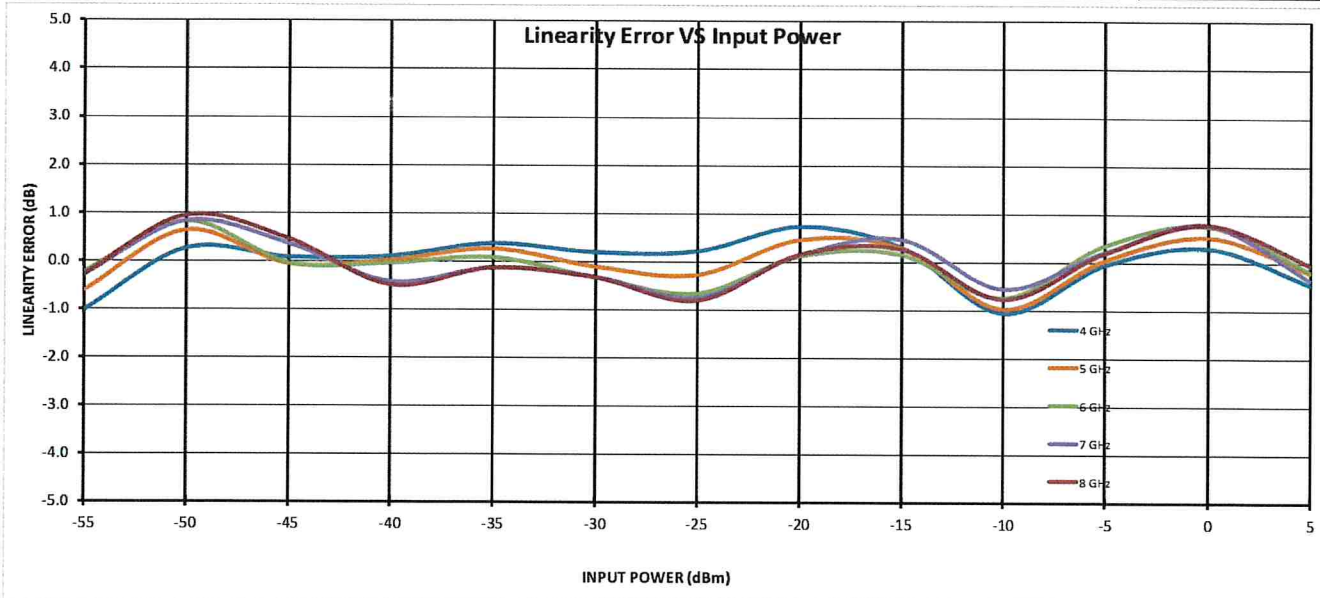
QA/QC Approval: *K. Hunter*

Date: 5-17-23

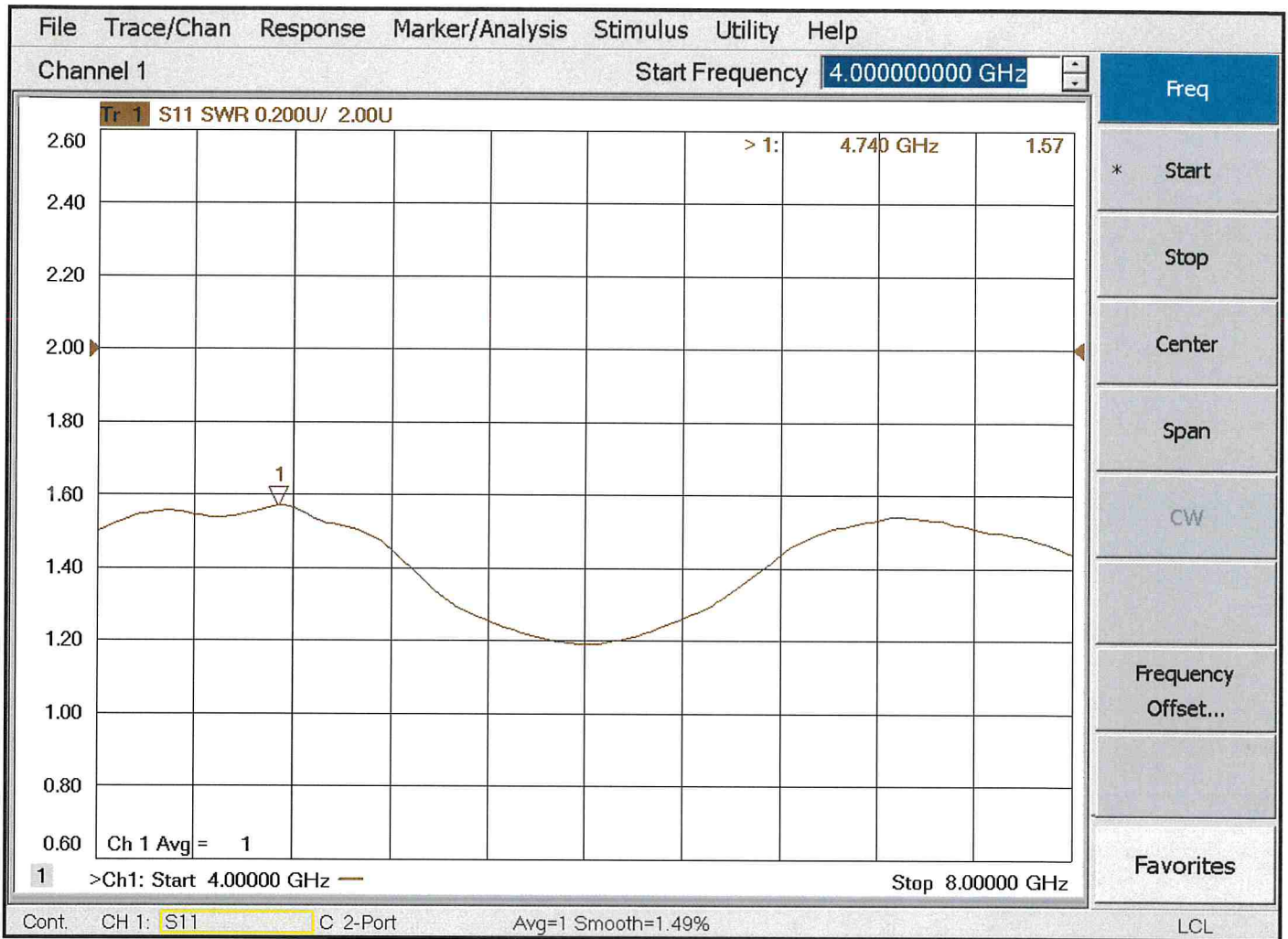
MODEL: GMDA-S4080-60  
SERIAL NO: PL40222  
DATE: 05-15-2023  
TESTED BY: M. Ayala  
TEST TEMP: +25°C



Frequency		-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
4 GHz	INTERCEPT (mV)	1698													Measured Value (mV)
	SLOPE (mV/dB)	24.7													Error (mV)
	LIN. ERR. (dB)	1.0													LINEARITY ERROR (dB)
		315	470	589	713	843	962	1086	1222	1335	1425	1573	1705	1810	
		-25	6	2	3	9	5	5	18	8	-26	-1	7	-11	
		-1.02	0.26	0.08	0.11	0.37	0.19	0.22	0.73	0.31	-1.05	-0.05	0.30	-0.45	
5 GHz	INTERCEPT (mV)	1694													Measured Value (mV)
	SLOPE (mV/dB)	24.4													Error (mV)
	LIN. ERR. (dB)	0.98													LINEARITY ERROR (dB)
		336	489	594	718	846	959	1077	1217	1335	1426	1573	1707	1811	
		-15	16	-1	1	6	-3	-7	11	7	-24	1	13	-5	
		-0.63	0.64	-0.06	0.02	0.26	-0.11	-0.27	0.46	0.29	-0.98	0.04	0.53	-0.21	
6 GHz	INTERCEPT (mV)	1702													Measured Value (mV)
	SLOPE (mV/dB)	24.6													Error (mV)
	LIN. ERR. (dB)	0.82													LINEARITY ERROR (dB)
		342	491	593	716	842	955	1070	1212	1336	1437	1587	1720	1820	
		-6	20	-1	-1	2	-8	-16	3	4	-18	9	18	-5	
		-0.24	0.82	-0.04	-0.04	0.08	-0.33	-0.66	0.11	0.15	-0.75	0.35	0.75	-0.19	
7 GHz	INTERCEPT (mV)	1705													Measured Value (mV)
	SLOPE (mV/dB)	25.3													Error (mV)
	LIN. ERR. (dB)	0.83													LINEARITY ERROR (dB)
		304	459	574	681	815	937	1053	1202	1337	1438	1584	1725	1823	
		-7	21	9	-11	-3	-8	-19	4	12	-14	5	20	-9	
		-0.29	0.83	0.36	-0.41	-0.13	-0.31	-0.74	0.14	0.47	-0.55	0.21	0.78	-0.36	
8 GHz	INTERCEPT (mV)	1693													Measured Value (mV)
	SLOPE (mV/dB)	25.2													Error (mV)
	LIN. ERR. (dB)	0.95													LINEARITY ERROR (dB)
		300	457	571	673	808	929	1043	1193	1322	1422	1572	1713	1818	
		-7	24	12	-12	-3	-8	-20	4	7	-19	5	20	-1	
		-0.29	0.95	0.47	-0.48	-0.13	-0.32	-0.80	0.15	0.27	-0.76	0.19	0.79	-0.04	
Avg. Slope: 24.9 mV/dB		0.8	0.7	0.5	0.9	0.8	0.7	0.9	0.6	0.3	0.3	0.3	0.4	0.3	Flatness dB: ±0.9 dB



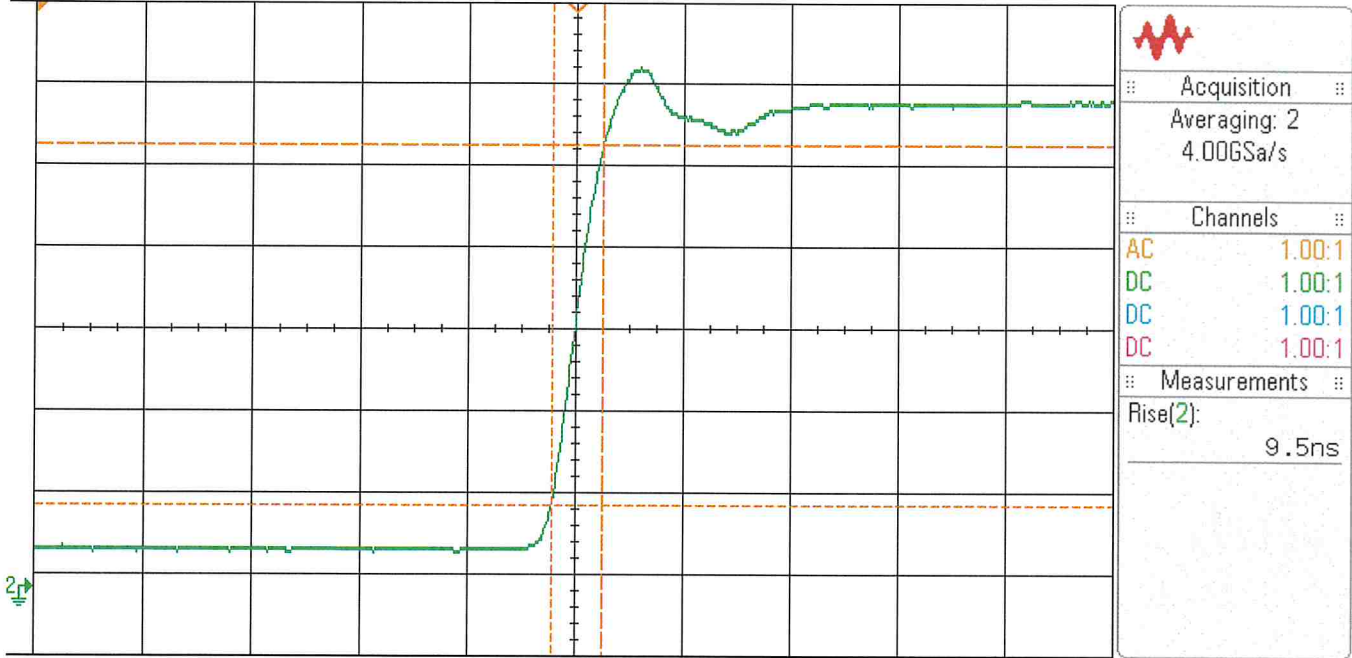
# VSWR



# Rise Time

DSO-X 3024A, MY54490369: Mon May 15 13:48:24 2023

1 2 200V/ 3 4 100.1% 20.00%/ Auto f E 350V



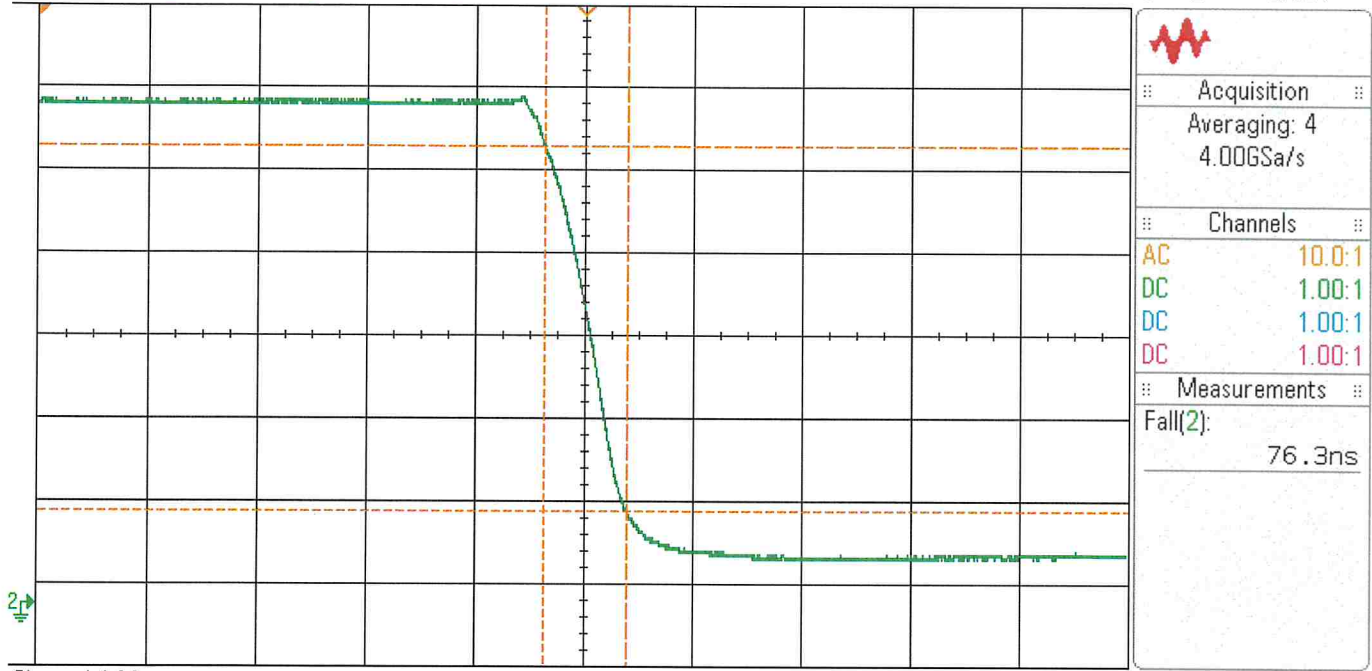
Clear Measurements Menu

Clear Meas 1 Rise(2)	Clear Meas 2 <None>	Clear Meas 3 <None>	Clear Meas 4 <None>	Clear All
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# Fall Time

DSO-X 3024A, MY54490369: Mon May 15 15:36:57 2023

1 2 300V/ 3 4 50.12% 100.0% / Auto f E 2.56V



Channel 1 Menu

Coupling  
AC

BW Limit

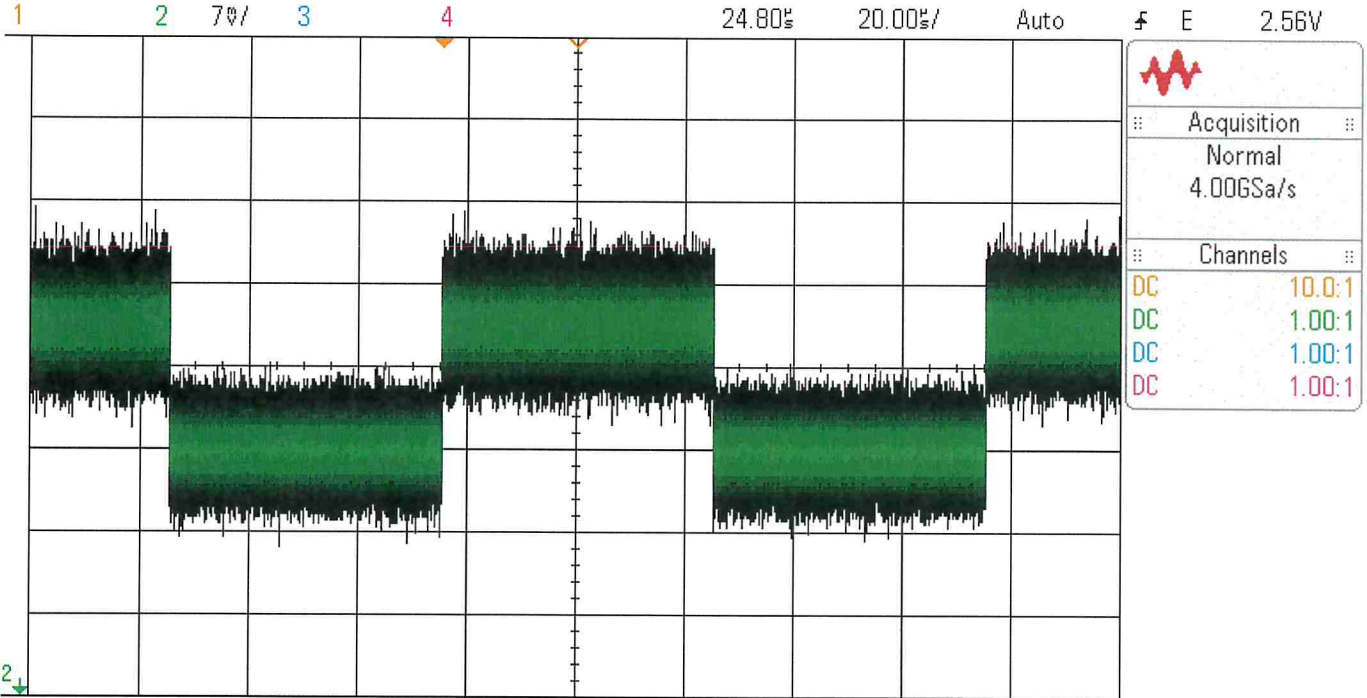
Fine

Invert

Probe  
↓

# TSS @ -68 dBm

DSO-X 3024A, MY54490369: Mon May 15 17:24:06 2023



Measurement Menu

Source 2 Type: Fall Add Measurement Settings Clear Meas Statistics