


SUMMARY TEST DATA ON GMDA-S4080-60

CUSTOMER: _____
 SO: _____
 MODEL NO: GMDA-S4080-60
 SERIAL NO: PL40216/2317

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	-67 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	24.9 mV	
6	VIDEO FREQ FLATNESS	±2 dB Max	1 dB	
7	VIDEO RISE TIME	30ns Max	8.3 ns	
9	VIDEO FALL TIME	80ns Max	69.3 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	1.56:1	
13	DC POWER	+11.4 to +15.75V, 460mA Max -11.4 to 15.75V, 150mA Max	+310mA /-50mA	

QA/QC Approval: *K. Hunter*

Date: 4-28-23



MODEL: GMDA-S4080-60
SERIAL NO: PL40216
DATE: 04-26-2023
TESTED BY: M. Ayala
TEST TEMP: +25°C

Frequency

4 GHz	INTERCEPT (mV)	1607
	SLOPE (mV/dB)	24.8
	LIN. ERR. (dB)	0.9

	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5
Measured Value (mV)	223	356	492	624	761	875	995	1122	1239	1341	1478	1620	1713
Error (mV)	-21	-12	0	8	21	11	7	10	3	-18	-5	13	-18
LINEARITY ERROR (dB)	-0.84	-0.48	0.01	0.33	0.86	0.46	0.30	0.42	0.14	-0.74	-0.22	0.51	-0.74

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

5 GHz	INTERCEPT (mV)	1599
	SLOPE (mV/dB)	24.6
	LIN. ERR. (dB)	0.87

	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5
Measured Value (mV)	224	359	496	623	759	870	985	1114	1234	1333	1470	1612	1711
Error (mV)	-21	-9	5	8	21	9	1	7	4	-20	-6	13	-12
LINEARITY ERROR (dB)	-0.86	-0.38	0.19	0.35	0.87	0.38	0.05	0.29	0.16	-0.82	-0.26	0.51	-0.47

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

6 GHz	INTERCEPT (mV)	1604
	SLOPE (mV/dB)	24.8
	LIN. ERR. (dB)	0.76

	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5
Measured Value (mV)	222	358	496	618	754	867	983	1112	1235	1340	1477	1620	1713
Error (mV)	-19	-7	7	6	18	7	-1	4	3	-16	-3	16	-15
LINEARITY ERROR (dB)	-0.76	-0.27	0.30	0.22	0.71	0.27	-0.05	0.16	0.12	-0.64	-0.12	0.65	-0.59

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

7 GHz	INTERCEPT (mV)	1601
	SLOPE (mV/dB)	25.2
	LIN. ERR. (dB)	0.59

	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5
Measured Value (mV)	201	334	476	587	730	848	970	1102	1228	1336	1473	1615	1712
Error (mV)	-12	-5	10	-5	12	4	0	6	6	-13	-2	14	-15
LINEARITY ERROR (dB)	-0.49	-0.22	0.41	-0.19	0.48	0.16	-0.01	0.23	0.22	-0.50	-0.07	0.56	-0.59

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

8 GHz	INTERCEPT (mV)	1592
	SLOPE (mV/dB)	25.2
	LIN. ERR. (dB)	0.63

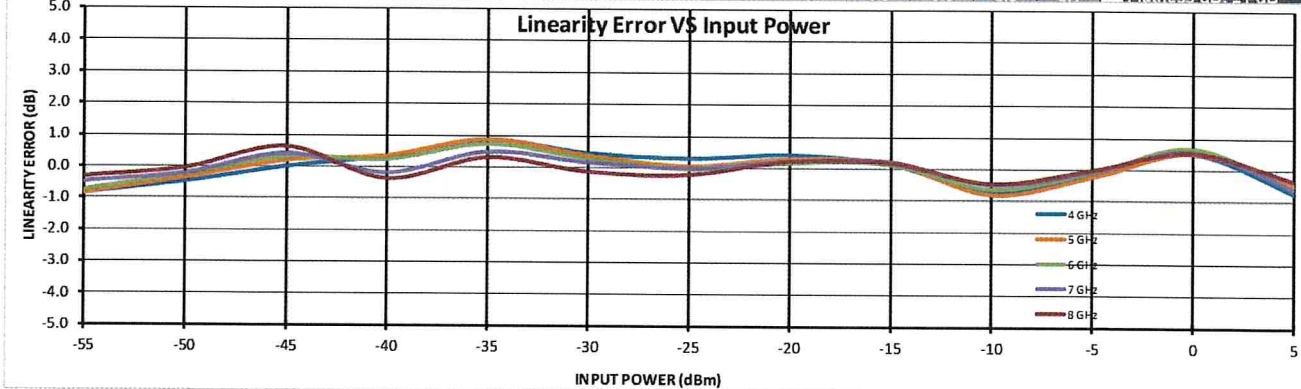
	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5
Measured Value (mV)	197	330	473	574	717	832	956	1093	1218	1328	1465	1605	1709
Error (mV)	-8	-1	16	-9	8	-3	-5	6	5	-11	0	13	-9
LINEARITY ERROR (dB)	-0.32	-0.04	0.63	-0.36	0.31	-0.13	-0.21	0.22	0.18	-0.45	-0.02	0.53	-0.34

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

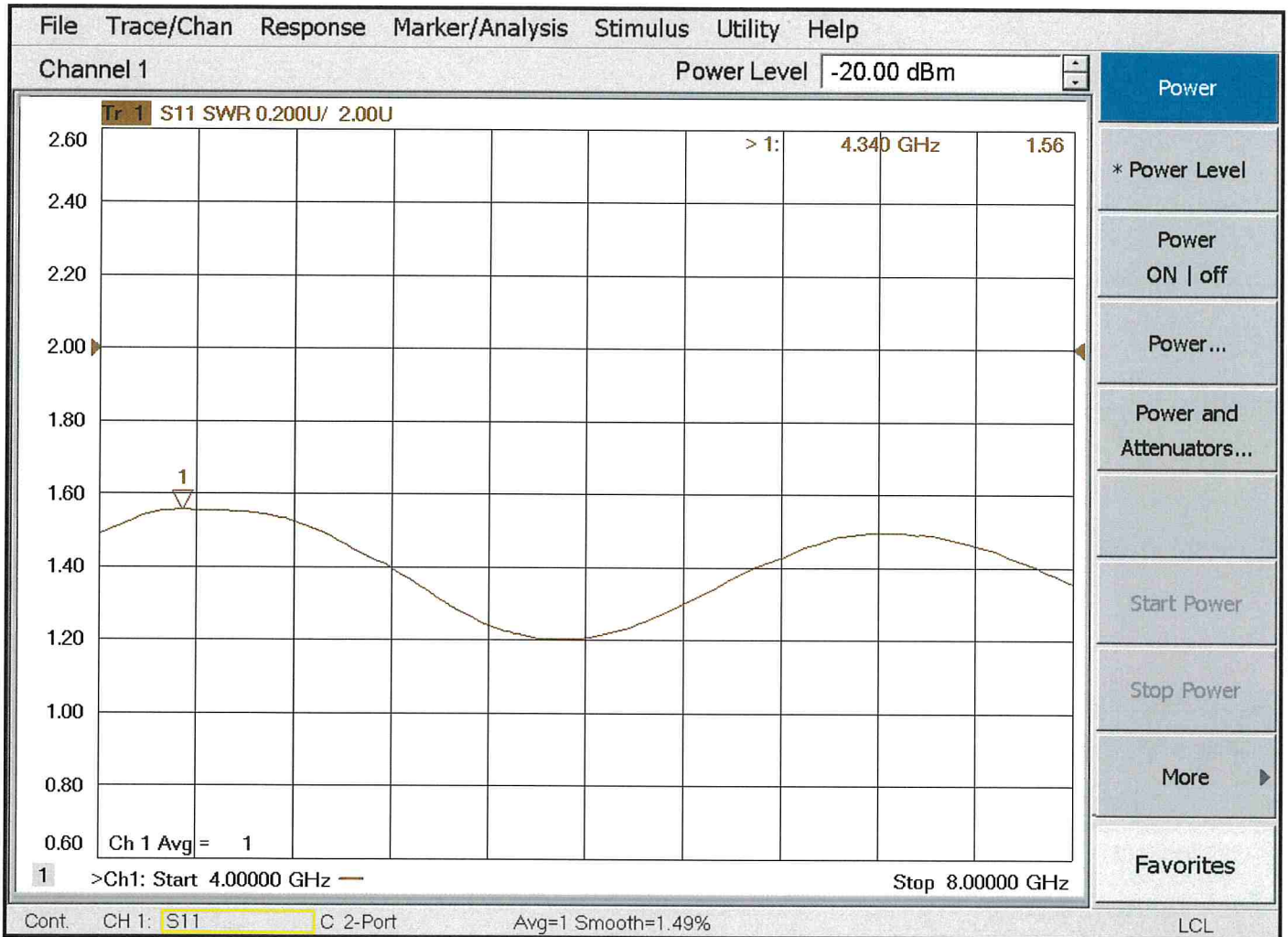
Ava. Slope: 24.9 mV/dB

	0.5	0.6	0.5	1	0.9	0.9	0.8	0.6	0.4	0.3	0.3	0.3	0.1
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Flatness dB: ±1 dB

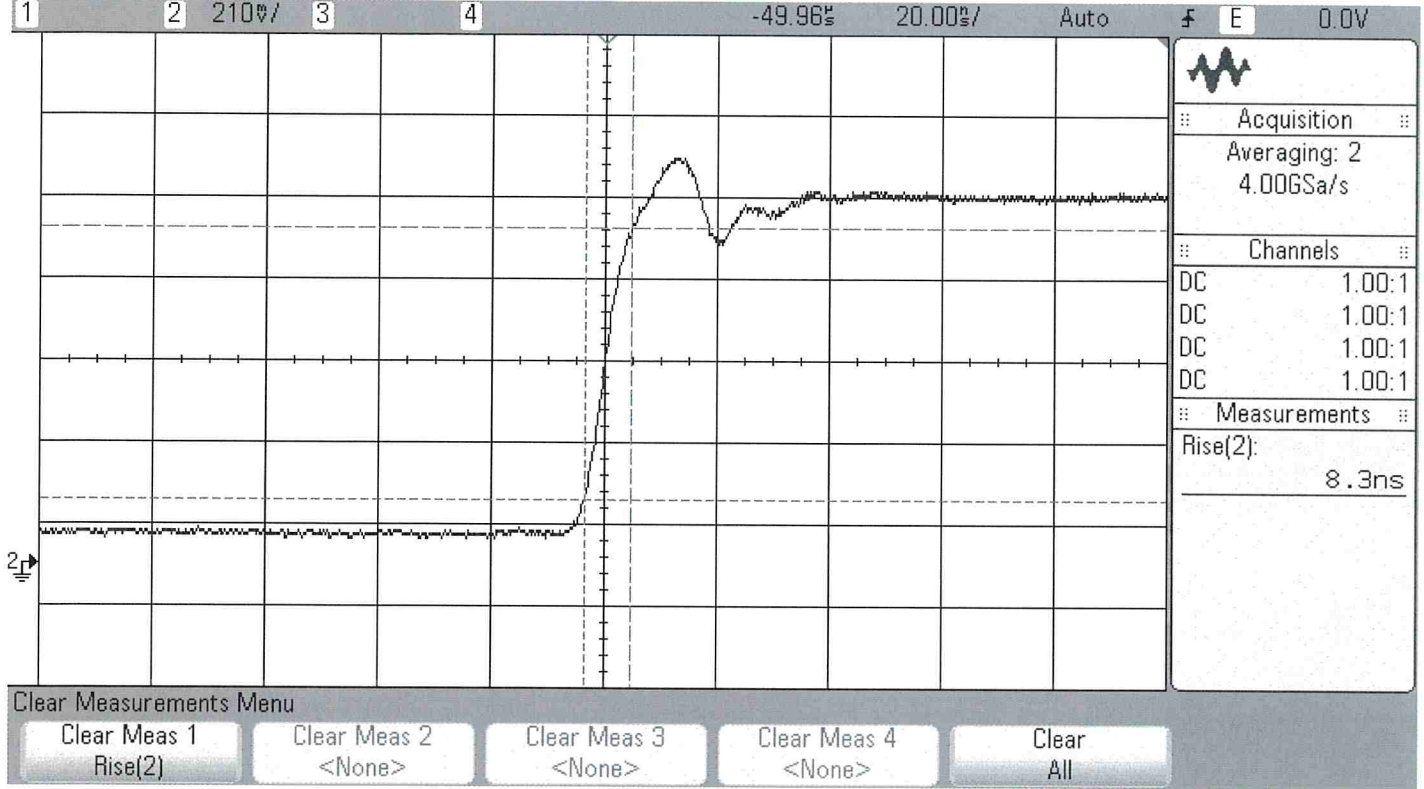


VSWR



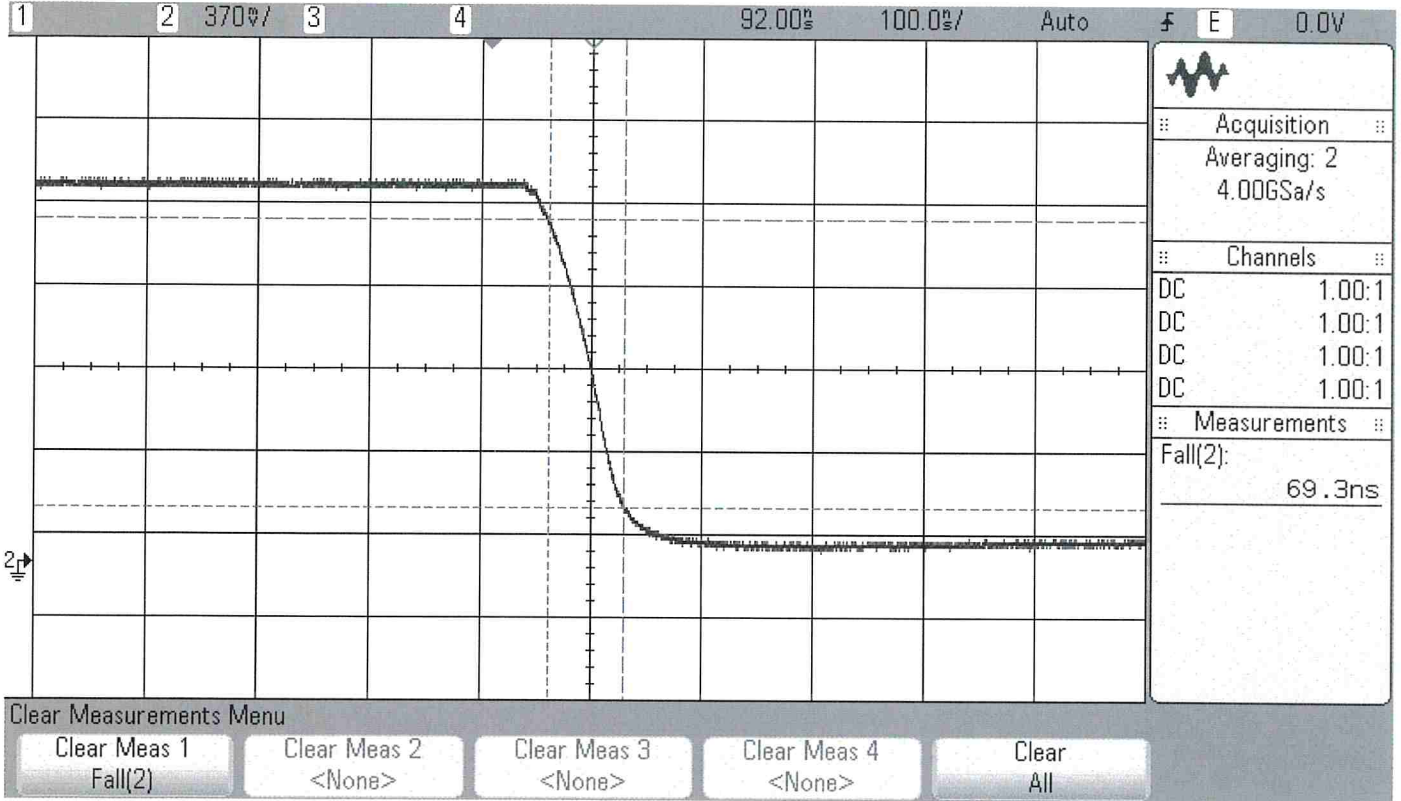
Rise Time

MSO-X 3054A, MY53400180: Wed Apr 26 10:56:52 2023



Fall Time

MSO-X 3054A, MY53400180: Wed Apr 26 10:58:20 2023



TSS @ -67 dBm

MSO-X 3054A, MY53400180: Wed Apr 26 10:55:39 2023

