

SUMMARY TEST DATA ON GMDA-S4080-60

CUSTOMER: _____
 SO: _____
 MODEL NO: GMDA-S4080-60
 SERIAL NO: PL54054/2530

TESTED BY: EA Valdez
 TEMPERATURE: +25°C
 DATE: 7/22/2025
 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	- 65 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	1.35 dBm	
5	VIDEO LOG SLOPE	25 ± 1mV / dB Nom	26.5 mV	
6	VIDEO FREQ FLATNESS	±2 dB Max	1.2 dB	
7	VIDEO RISE TIME	30ns Max	14.0 ns	
9	VIDEO FALL TIME	80ns Max	74.0 ns	
10	RECOVERY TIME	100ns Max	90 ns	
11	VIDEO OUTPUT LOAD IMPEDANCE	75 Ω	75Ω	
12	INPUT VSWR (50 Ω)	2.0:1 Max	1.39:1	
13	DC POWER	+11.4 to +15.75V, 460mA Max -11.4 to 15.75V, 150mA Max	+359mA /-37mA	

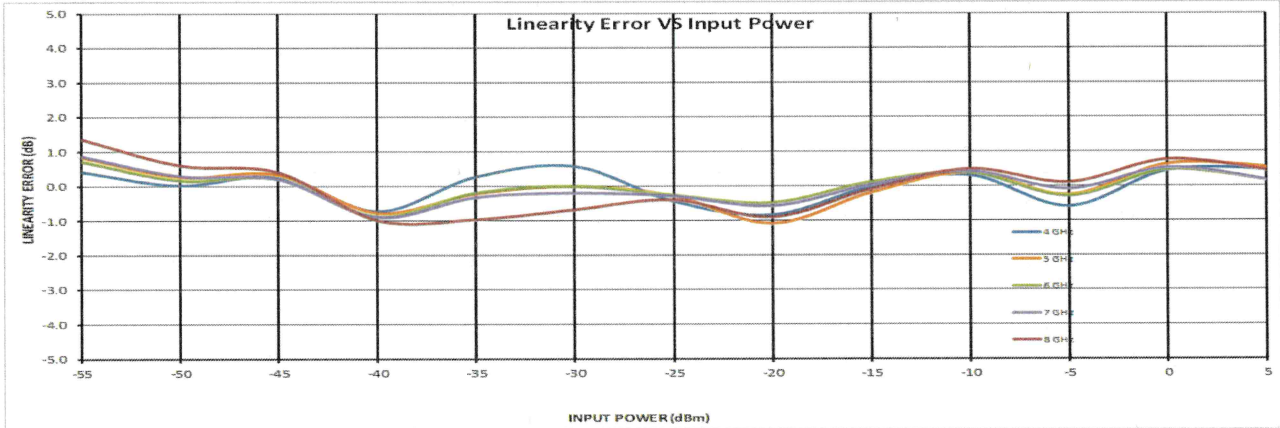
QA/QC Approval: 

Date: 7-22-25

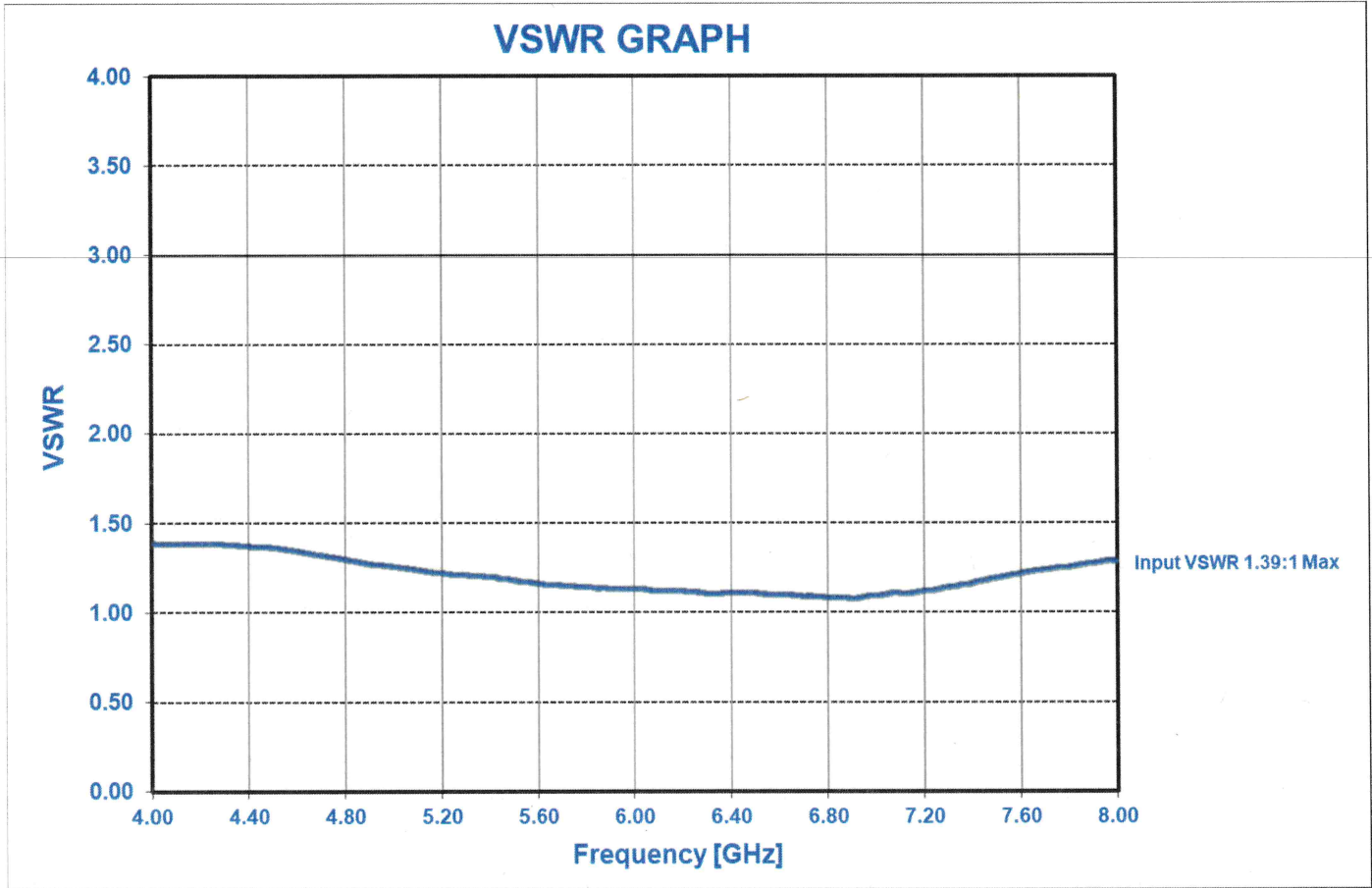


MODEL: GMDA-S4080-60
SERIAL NO: PL54054
DATE: 07/09/2025
TESTED BY: EAV
TEST TEMP: +25°C

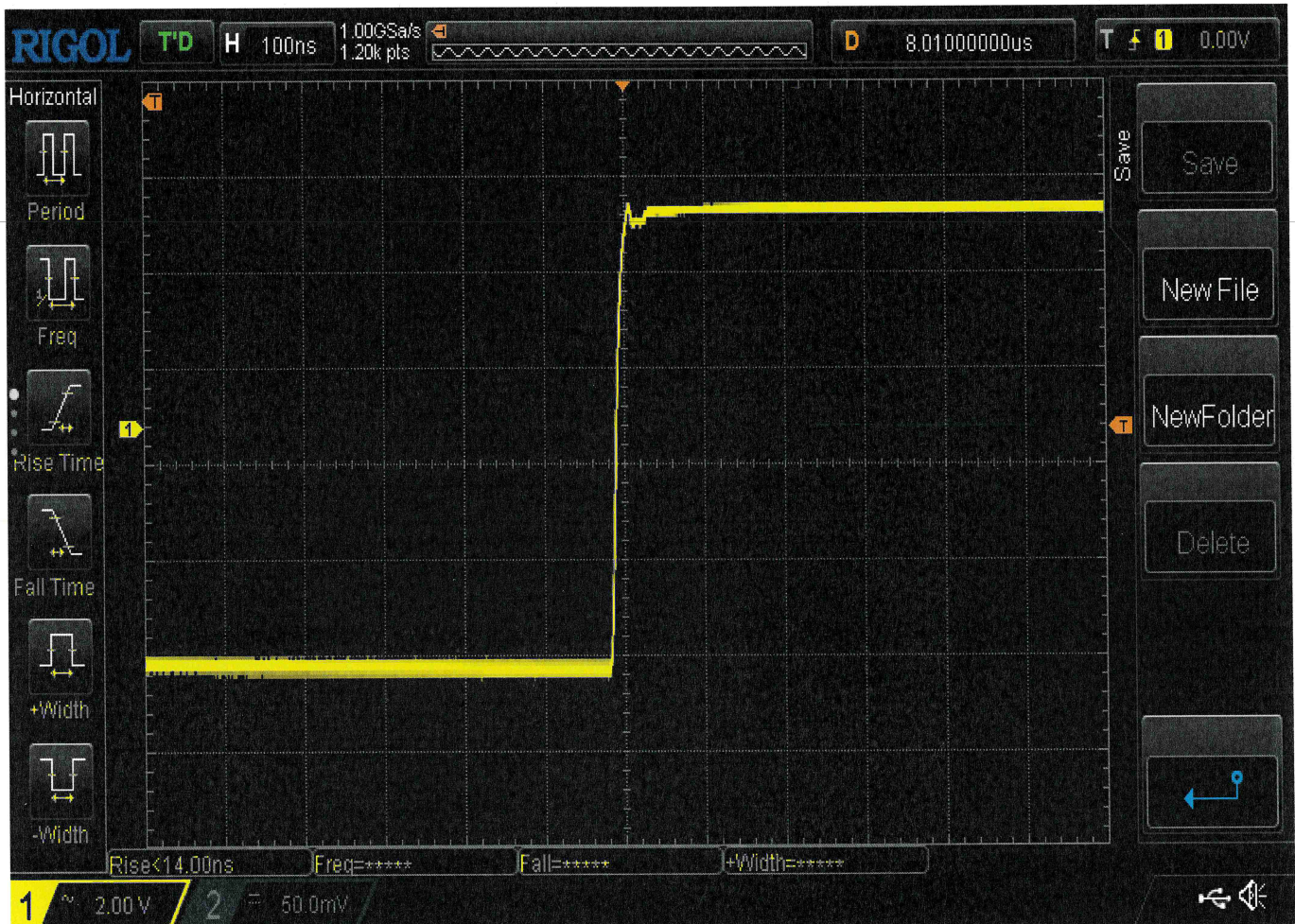
Frequency		-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)	
4 GHz	INTERCEPT (mV)	1593														Measured Value (mV)
	SLOPE (mV/dB)	25.84														Error (mV)
	LIN. ERR. (dB)	0.9														LINEARITY ERROR (dB)
		182	301	437	540	695	832	935	1054	1204	1342	1448	1604	1734		
		11	0	7	-19	7	14	-12	-22	-1	8	-16	11	12		
		0.41	0.01	0.27	-0.74	0.26	0.56	-0.46	-0.85	-0.05	0.29	-0.60	0.43	0.46		
5 GHz	INTERCEPT (mV)	1591														Measured Value (mV)
	SLOPE (mV/dB)	26.47														Error (mV)
	LIN. ERR. (dB)	1.106														LINEARITY ERROR (dB)
		157	274	408	511	658	796	921	1032	1188	1336	1451	1607	1737		
		22	7	8	-21	-6	-1	-8	-29	-6	10	-7	16	14		
		0.84	0.26	0.32	-0.79	-0.23	-0.02	-0.30	-1.11	-0.21	0.38	-0.28	0.62	0.53		
6 GHz	INTERCEPT (mV)	1608														Measured Value (mV)
	SLOPE (mV/dB)	26.58														Error (mV)
	LIN. ERR. (dB)	0.886														LINEARITY ERROR (dB)
		165	283	417	521	672	810	936	1063	1212	1352	1467	1620	1745		
		19	4	5	-24	-5	0	-7	-13	3	10	-8	12	4		
		0.72	0.16	0.20	-0.89	-0.21	-0.01	-0.27	-0.50	0.11	0.37	-0.30	0.46	0.16		
7 GHz	INTERCEPT (mV)	1611														Measured Value (mV)
	SLOPE (mV/dB)	26.72														Error (mV)
	LIN. ERR. (dB)	0.915														LINEARITY ERROR (dB)
		165	283	414	518	667	804	935	1061	1211	1355	1475	1625	1749		
		23	8	5	-24	-9	-6	-8	-16	1	11	-3	14	4		
		0.87	0.29	0.19	-0.92	-0.34	-0.21	0.31	0.59	0.02	0.41	-0.10	0.52	0.16		
8 GHz	INTERCEPT (mV)	1597														Measured Value (mV)
	SLOPE (mV/dB)	26.88														Error (mV)
	LIN. ERR. (dB)	1.352														LINEARITY ERROR (dB)
		155	269	398	495	630	772	914	1035	1191	1341	1465	1617	1743		
		36	16	11	-27	-26	-19	-11	-24	-3	13	2	20	12		
		1.35	0.59	0.39	-1.00	-0.98	-0.69	-0.41	-0.91	-0.10	0.48	0.09	0.75	0.43		
Avg. Slope: 26.5 mV/dB		0.5	0.6	0.7	0.8	1.2	1.1	0.4	0.6	0.5	0.4	0.5	0.4	0.3	Flatness dB: ±1.2 dB	



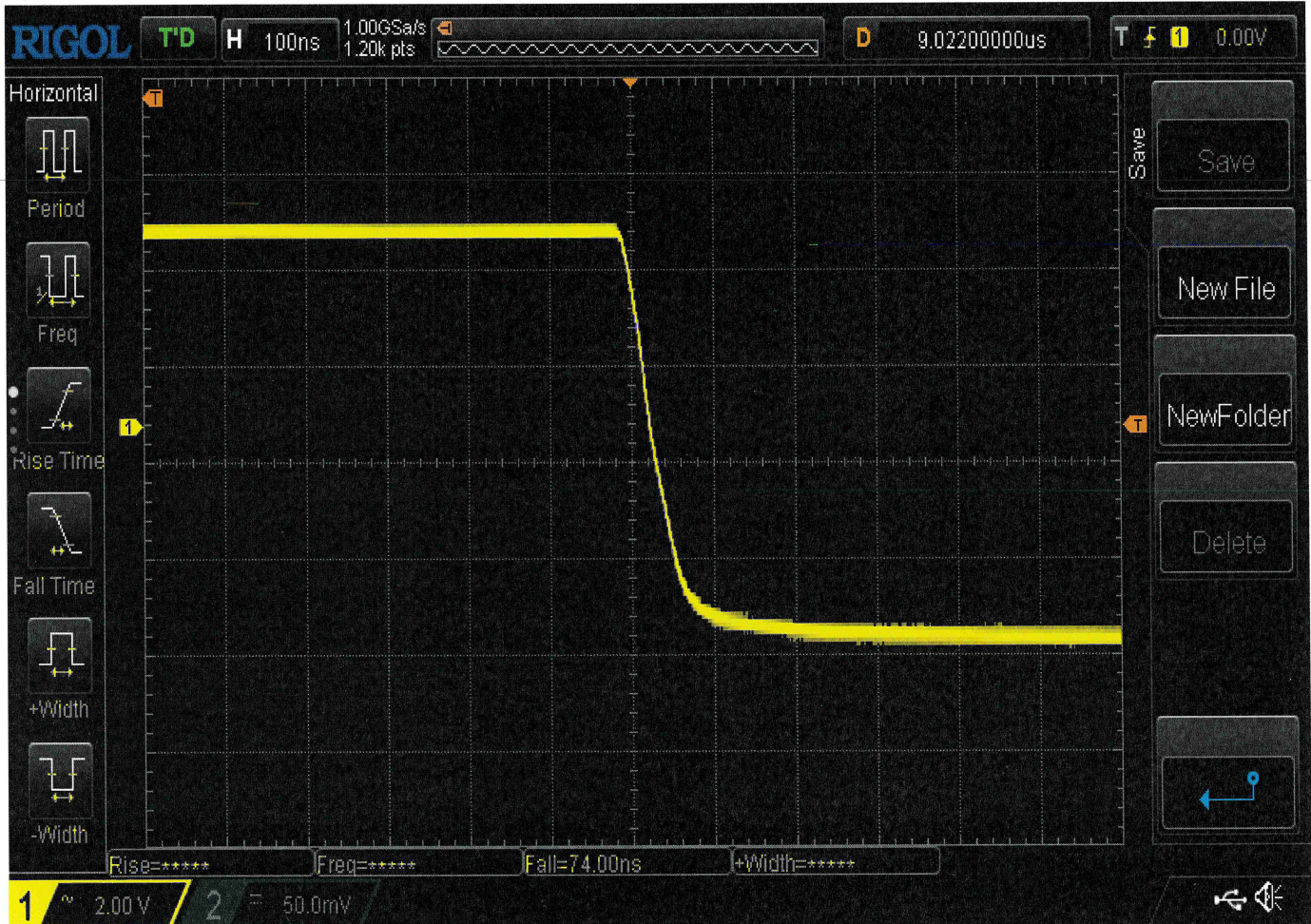
VSWR



Rise Time



Fall Time



TSS @ -65 dBm

