



**SUMMARY TEST DATA
ON
SDLVA-500M4G-CD-2**

PMI MODEL NUMBER SDLVA-500M4G-CD-2 IS A SDLVA (SUCCESSIVE DETECTION LOGARITHMIC VIDEO AMPLIFIER) DESIGNED TO OPERATE OVER THE 500MHZ TO 4GHZ FREQUENCY RANGE. THIS MODEL IS DESIGNED FOR ULTRA HIGH SPEED APPLICATIONS WHILE MAINTAINING FLATNESS AND ACCURACY.



August 27, 2014

**Tested By: Paul Kuhn
Designed by: Paul Kuhn**

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SUMMARY TEST DATA ON SDLVA-500M4G-CD-2

ZONE	REV.	DESCRIPTION	DATE	APPROVED
A		ORIGINAL RELEASE	1/17/13	
B1		ECN # 14-0002	1/7/14	

DESCRIPTION:
PMI MODEL NUMBER SDLVA-500M4G-CD-2 IS A SDLVA (SUCCESSIVE DETECTION LOGARITHMIC VIDEO AMPLIFIER) DESIGNED TO OPERATE OVER THE 500MHz TO 4GHz FREQUENCY RANGE. THIS MODEL IS DESIGNED FOR ULTRA HIGH SPEED APPLICATIONS WHILE MAINTAINING FLATNESS AND ACCURACY.

SPECIFICATIONS:

- FREQUENCY: 500MHz TO 4.0 GHz
- RF GAIN (SMALL SIGNAL): 55 dB Typ
- VIDEO FLATNESS OVER FREQUENCY: ± 50mV Max
- TSS: -73 dB Typ, -71dB Max
- VSWR J1, J2, J3 (50 Ohm): 2.0:1 Max
- PSAT: +13dBm Typ
- HARMONICS(J2): 15dBc Min (-70 to 0dBm J1 Input) (EXCLUDING ODD HARMONICS)
- POWER INPUT: +17 dBm CW Max
- LOG SLOPE: 25 mV/dB Typ. 50 Ω LOAD
- LOG RANGE: -70 to 0 dBm
- LOG LINEARITY: ±2.5 dB (-40°C - +75°C)
- DC OFFSET: 50 ± 50mV
- PULSE RANGE: 30 ns to CW
- RISE TIME: 10 ns Max (5 ns Typ)
- RECOVERY TIME: 60 ns Max (40 ns Typ)
- POWER SUPPLY: +15V or +12V @ 350 mA NOMINAL
-15V or -12V @ 180 mA NOMINAL
- SEALING: HERMETIC
- CONNECTORS: SMA FEMALE CONNECTORS
- FINISH: GRAY EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER, EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.
- MOUNTING SURFACE: CHEMICAL CONVERSION COATING / MIL-C-5541, CLASS 1A

ENVIRONMENTAL RATINGS:

- TEMPERATURE: -40°C TO +75°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- SALT FOG: MIL-STD-202F, METHOD 107D COND. A
- FUNGUS: MIL-STD-810C, METHOD 508.2
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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APPROVALS	DATE	TITLE	PRODUCT FEATURE
DRWN	1/17/13		SDLVA-500M4G-CD-2
CHEK			
ISSUED			

SCALE	N:S	SIZE	FSCM NO.	DWG NO.	REV.
		A	05X00	27019942	B1

SHEET 1 OF 1

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**SUMMARY TEST DATA
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Summary Test Data @ 25°C

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	QA QC
1	Frequency Range:	500 MHz to 4 GHz	250 MHz to 6 GHz	
2	Pulse Range:	30 ns to CW	30 ns to CW	
3	Input Power:	+17 dBm CW Max.	+17 dBm CW Max.	
4	Flatness:	± 2.0 dB Max.	± 1.6 dB	
5	Log Linearity	± 2.5 dB Max.	± 0.9 dB	
6	Log Range:	-70 to 0 dBm	-70 to 0 dBm	
7	Log Slope	25mV/dB Typ (±5%)	24.7 mV/dB	
8	VSWR:	2.0:1 Max.	1.70 :1	
9	Rise Time:	10 ns Max.	9.1 ns	
10	Recovery Time:	60 ns Max.	55.0 ns	
11	TSS:	-73 dBm Typ.	-73 dBm	
12	DC Supply:	+15VDC @ 350 mA -15VDC @ 180 mA	+15 VDC @ 271 mA -15 VDC @ 93 mA	



**SUMMARY TEST DATA
ON
SDLVA-500M4G-CD-2**

Summary Test Data @ -40°C

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	QA QC
1	Frequency Range:	500 MHz to 4 GHZ	250 MHz to 6 GHZ	
2	Pulse Range:	30 ns to CW	30 ns to CW	
3	Input Power:	+17 dBm CW Max.	+17 dBm CW Max.	
4	Flatness:	± 2.0 dB Max.	± 1.1 dB	
5	Log Linearity	± 2.5 dB Max.	± 1.13 dB	
6	Log Range:	-70 to 0 dBm	-70 to 0 dBm	
7	Log Slope	25mV/dB Typ (±5%)	24.8 mV/dB	
8	VSWR:	2.0:1 Max.	1.66 :1	
9	Rise Time:	10 ns Max.	8.1 ns	
10	Recovery Time:	60 ns Max.	55.0 ns	
11	TSS:	-73 dBm Typ.	-73 dBm	
12	DC Supply:	+15VDC @ 350 mA -15VDC @ 180 mA	+15 VDC @ 208 mA -15 VDC @ 82 mA	



**SUMMARY TEST DATA
ON
SDLVA-500M4G-CD-2**

Summary Test Data @ 75°C

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	PASS FAIL	QA QC
1	Frequency Range:	500 MHz to 4 GHz	250 MHz to 6 GHz	
2	Pulse Range:	30 ns to CW	30 ns to CW	
3	Input Power:	+17 dBm CW Max.	+17 dBm CW Max.	
4	Flatness:	± 2.0 dB Max.	± 1.6 dB	
5	Log Linearity	± 2.5 dB Max.	± 1.1 dB	
6	Log Range:	-70 to 0 dBm	-70 to 0 dBm	
7	Log Slope	25mV/dB Typ (±5%)	25.4 mV/dB	
8	VSWR:	2.0:1 Max.	1.78 :1	
9	Rise Time:	10 ns Max.	8.3 ns	
10	Recovery Time:	60 ns Max.	55.0 ns	
11	TSS:	-73 dBm Typ.	-73 dBm	
12	DC Supply:	+15VDC @ 350 mA -15VDC @ 180 mA	+15 VDC @ 324 mA -15 VDC @ 109 mA	



SUMMARY TEST DATA ON SDLVA-500M4G-CD-2

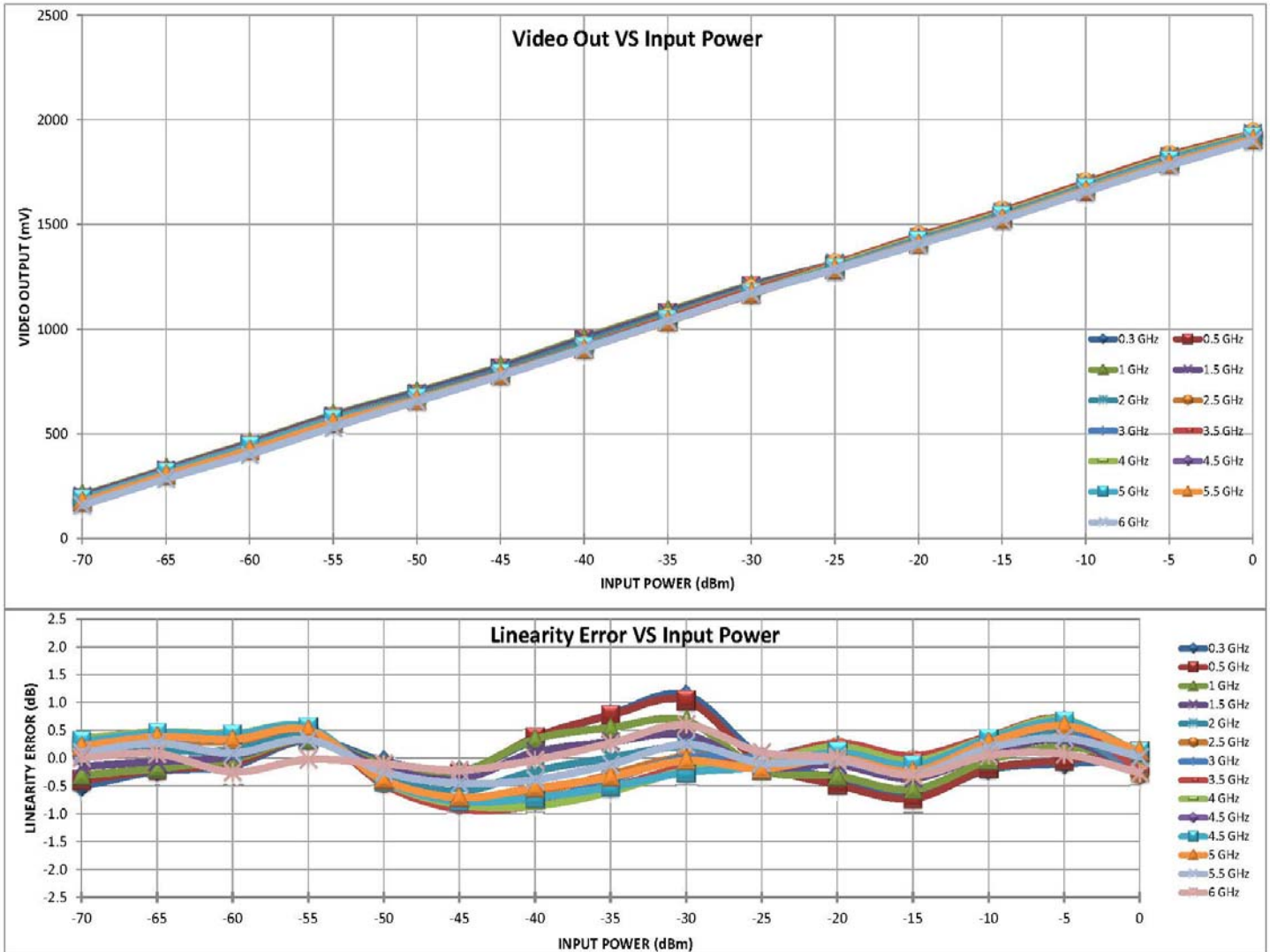
SDLVA-500M4G-CD-2 (Tabulated Data) @ -40°C

			-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
0.3 GHz	INTERCEPT (mV)	1920	182	312	438	573	687	805	942	1077	1208	1304	1418	1533	1668	1794	1919	Measured Value (mV)
	SLOPE (mV/dB)	24.6	-13	-6	-3	8	-1	-6	8	19	28	0	-9	-17	-5	-2	-1	Error (mV)
			-0.51	-0.24	-0.14	0.33	-0.05	-0.23	0.33	0.78	1.13	0.02	-0.38	-0.69	-0.21	-0.10	-0.04	LINEARTY ERROR (dB)
0.5 GHz	INTERCEPT (mV)	1914	195	322	447	579	689	808	946	1078	1207	1301	1414	1530	1665	1791	1917	Measured Value (mV)
	SLOPE (mV/dB)	24.4	-10	-5	-2	8	-4	-7	9	19	25	-2	-12	-18	-5	-1	3	Error (mV)
			-0.40	-0.21	-0.09	0.34	-0.15	-0.28	0.38	0.77	1.03	-0.09	-0.48	-0.73	-0.19	-0.04	0.12	LINEARTY ERROR (dB)
1 GHz	INTERCEPT (mV)	1930	206	331	458	590	701	820	957	1085	1211	1312	1432	1549	1684	1813	1929	Measured Value (mV)
	SLOPE (mV/dB)	24.5	-8	-4	-1	8	-3	-6	8	13	16	-5	-8	-14	-1	5	-2	Error (mV)
			-0.31	-0.18	-0.02	0.34	-0.11	-0.25	0.34	0.55	0.67	-0.21	-0.32	-0.56	-0.04	0.20	-0.07	LINEARTY ERROR (dB)
1.5 GHz	INTERCEPT (mV)	1938	200	326	452	584	695	814	950	1078	1205	1315	1439	1557	1692	1822	1932	Measured Value (mV)
	SLOPE (mV/dB)	24.8	-4	-2	1	9	-4	-9	3	7	10	-4	-3	-9	2	8	-6	Error (mV)
			-0.15	-0.06	0.03	0.37	-0.17	-0.38	0.11	0.29	0.42	-0.15	-0.12	-0.36	0.08	0.33	-0.24	LINEARTY ERROR (dB)
2 GHz	INTERCEPT (mV)	1941	190	318	443	576	682	800	934	1065	1195	1313	1441	1560	1696	1827	1934	Measured Value (mV)
	SLOPE (mV/dB)	25	1	3	4	11	-8	-15	-6	0	5	-2	1	-5	5	11	-6	Error (mV)
			0.04	0.13	0.15	0.45	-0.31	-0.59	-0.23	0.01	0.20	-0.07	0.04	-0.22	0.21	0.45	-0.26	LINEARTY ERROR (dB)
2.5 GHz	INTERCEPT (mV)	1942	187	315	440	571	673	789	920	1054	1188	1313	1444	1564	1699	1831	1935	Measured Value (mV)
	SLOPE (mV/dB)	25.2	6	8	8	13	-11	-21	-16	-7	1	0	5	-1	8	14	-7	Error (mV)
			0.24	0.33	0.30	0.51	-0.44	-0.82	-0.62	-0.29	0.03	-0.01	0.20	-0.04	0.32	0.58	-0.28	LINEARTY ERROR (dB)
3 GHz	INTERCEPT (mV)	1937	186	314	439	569	671	786	913	1048	1184	1310	1441	1560	1695	1826	1931	Measured Value (mV)
	SLOPE (mV/dB)	25.1	7	9	9	13	-11	-22	-20	-10	0	0	6	0	9	15	-7	Error (mV)
			0.28	0.37	0.34	0.53	-0.43	-0.86	-0.79	-0.39	0.01	0.02	0.25	-0.01	0.36	0.58	-0.26	LINEARTY ERROR (dB)
3.5 GHz	INTERCEPT (mV)	1937	192	320	444	572	672	787	913	1047	1182	1310	1443	1562	1696	1829	1932	Measured Value (mV)
	SLOPE (mV/dB)	25.1	9	11	11	13	-12	-23	-21	-13	-4	-1	7	1	10	17	-5	Error (mV)
			0.35	0.46	0.43	0.53	-0.47	-0.91	-0.85	-0.53	-0.15	-0.03	0.27	0.04	0.39	0.70	-0.21	LINEARTY ERROR (dB)
4 GHz	INTERCEPT (mV)	1927	190	318	442	569	670	784	908	1039	1174	1302	1434	1552	1687	1820	1927	Measured Value (mV)
	SLOPE (mV/dB)	24.9	9	12	11	14	-10	-21	-21	-15	-5	-2	5	-1	9	17	-1	Error (mV)
			0.34	0.48	0.44	0.55	-0.42	-0.84	-0.86	-0.60	-0.22	-0.07	0.21	-0.05	0.36	0.69	-0.02	LINEARTY ERROR (dB)
4.5 GHz	INTERCEPT (mV)	1918	190	317	441	568	668	783	908	1037	1168	1294	1424	1543	1678	1810	1920	Measured Value (mV)
	SLOPE (mV/dB)	24.8	7	11	11	14	-10	-19	-18	-13	-6	-4	2	-3	9	16	3	Error (mV)
			0.30	0.45	0.42	0.56	-0.40	-0.78	-0.71	-0.52	-0.26	-0.15	0.10	-0.13	0.35	0.66	0.11	LINEARTY ERROR (dB)
5 GHz	INTERCEPT (mV)	1915	188	316	438	566	668	784	911	1040	1171	1291	1420	1538	1674	1805	1918	Measured Value (mV)
	SLOPE (mV/dB)	24.7	5	9	8	12	-10	-17	-13	-8	-1	-5	0	-6	7	14	3	Error (mV)
			0.22	0.38	0.34	0.50	-0.39	-0.71	-0.54	-0.34	-0.04	-0.19	0.00	-0.23	0.28	0.58	0.12	LINEARTY ERROR (dB)
5.5 GHz	INTERCEPT (mV)	1907	175	303	422	552	662	781	906	1037	1170	1285	1410	1528	1664	1792	1908	Measured Value (mV)
	SLOPE (mV/dB)	24.8	2	7	2	8	-6	-11	-10	-3	6	-2	-1	-7	5	9	1	Error (mV)
			0.10	0.27	0.09	0.33	-0.24	-0.45	-0.39	-0.11	0.25	-0.08	-0.04	-0.29	0.18	0.36	0.03	LINEARTY ERROR (dB)
6 GHz	INTERCEPT (mV)	1905	159	286	402	533	655	777	907	1039	1172	1284	1406	1523	1657	1782	1898	Measured Value (mV)
	SLOPE (mV/dB)	24.9	0	2	-6	-1	-3	-5	-1	7	15	3	0	-8	1	2	-7	Error (mV)
			0.01	0.08	-0.25	-0.02	-0.10	-0.21	-0.03	0.27	0.60	0.10	0.00	-0.31	0.05	0.07	-0.26	LINEARTY ERROR (dB)
Average Slope			24.8															
Flatness ± dB																		
Average Offset			187.7															
			0.9	0.9	1.1	1.1	0.9	0.9	1	1	0.9	0.6	0.8	0.8	0.8	1	0.7	
			159	286	402	533	655	777	906	1037	1168	1284	1406	1523	1657	1782	1898	
			206	331	458	590	701	820	957	1085	1211	1315	1444	1564	1699	1831	1935	



**SUMMARY TEST DATA
ON
SDLVA-500M4G-CD-2**

SDLVA-500M4G-CD-2 (2D-Plots) @ -40°C

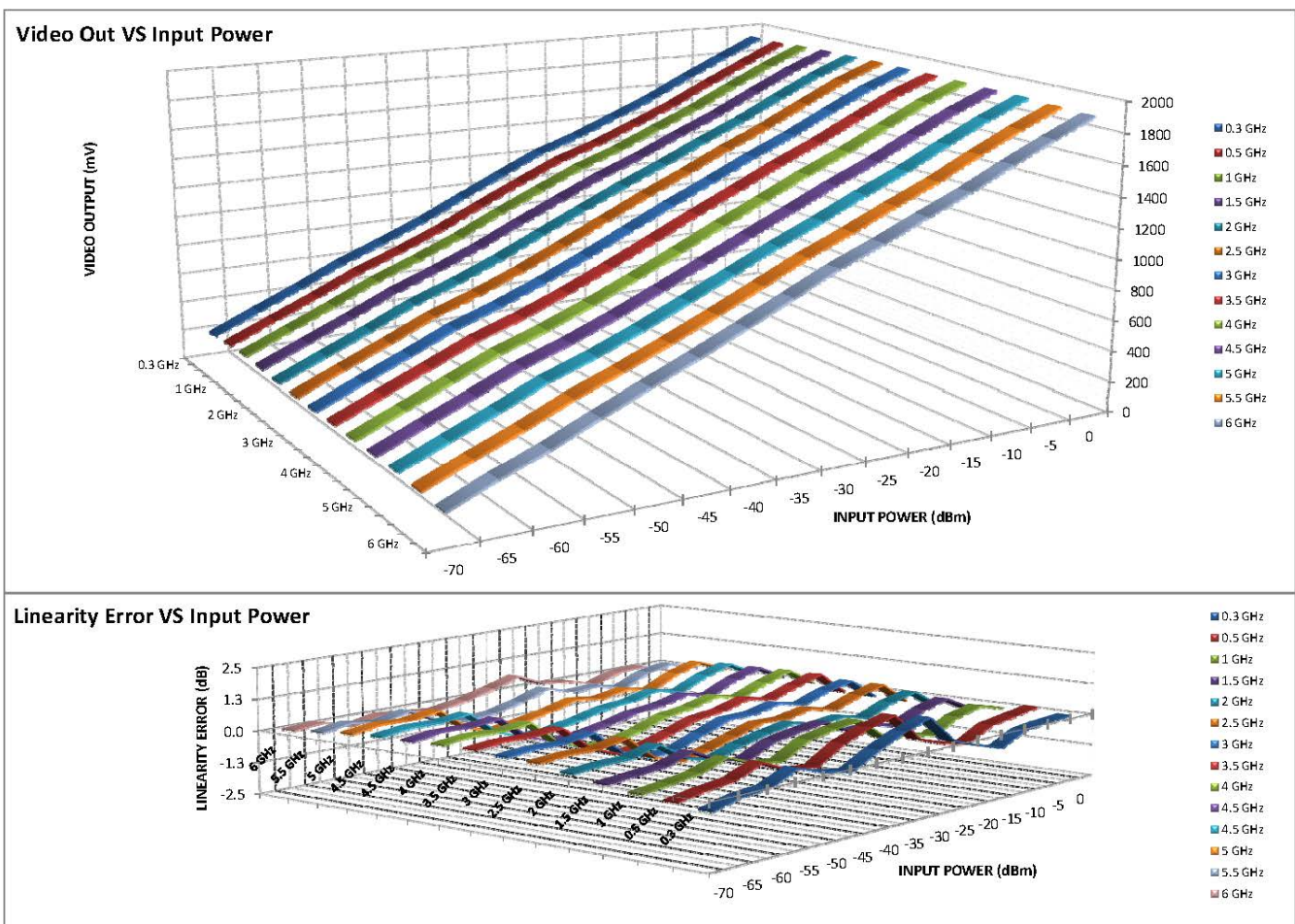


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SUMMARY TEST DATA ON SDLVA-500M4G-CD-2

SDLVA-500M4G-CD-2 (3D-Plots) @ -40°C





SUMMARY TEST DATA ON SDLVA-500M4G-CD-2

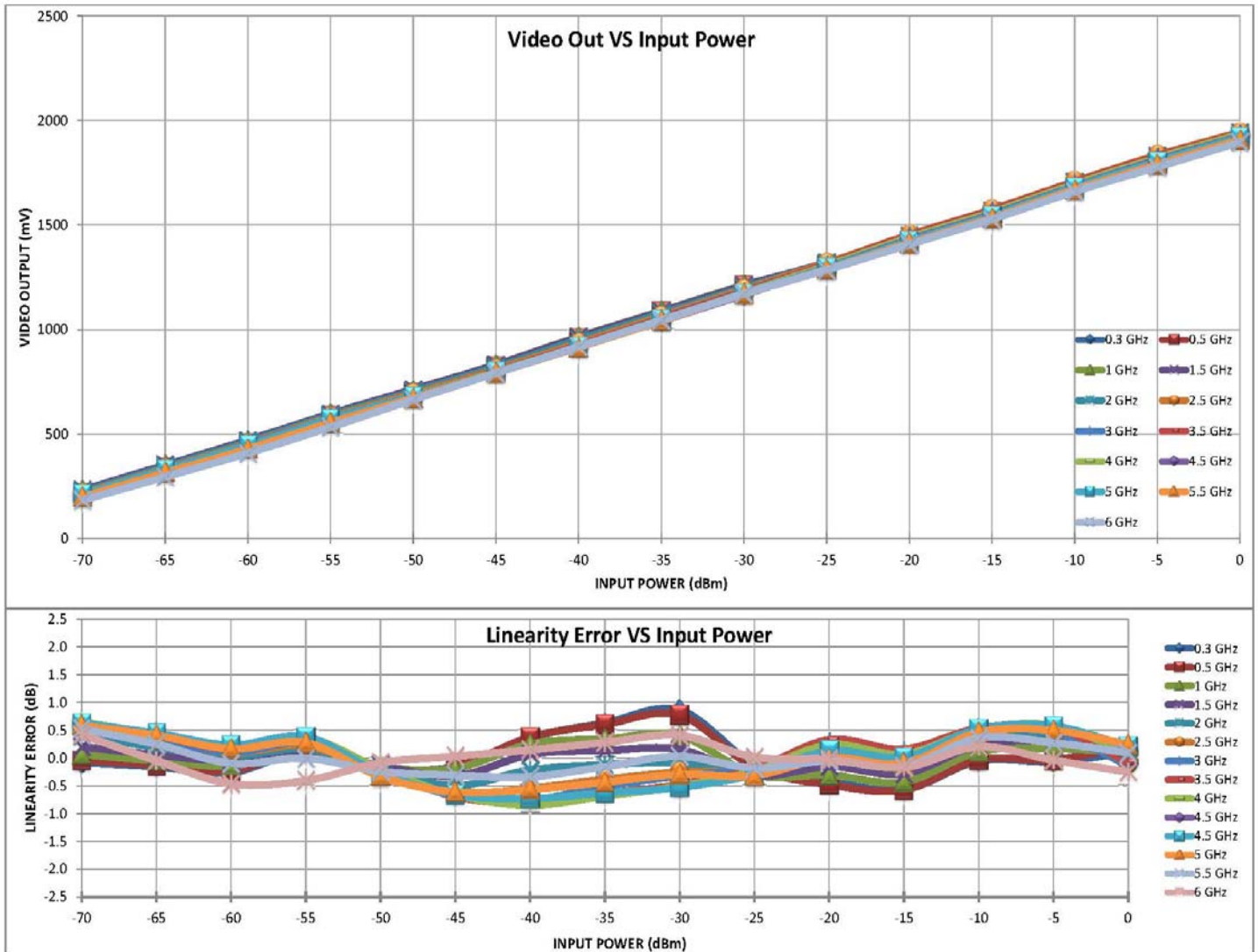
SDLVA-500M4G-CD-2 (Tabulated Data) @ -5°C

		RF Input Power (dBm)														RF Input Power (dBm)	
		-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	
0.3 GHz	INTERCEPT (mV)	1921														Measured Value (mV)	
	SLOPE (mV/dB)	24.3														Error (mV)	
			216	336	455	586	700	823	957	1085	1212	1310	1424	1542	1676	1798	1923
		-2	-4	-6	3	-4	-4	9	15	21	-3	-10	-14	-1	-2	2	
		-0.08	-0.16	-0.26	0.12	-0.18	-0.16	0.36	0.63	0.86	-0.11	-0.42	-0.57	-0.05	-0.06	0.10	
0.5 GHz	INTERCEPT (mV)	1917														Measured Value (mV)	
	SLOPE (mV/dB)	24.2														Error (mV)	
			219	338	457	587	699	822	956	1083	1208	1307	1420	1539	1673	1795	1921
		-1	-3	-6	3	-6	-4	9	15	19	-4	-12	-14	-1	-1	5	
		-0.04	-0.13	-0.24	0.14	-0.23	-0.16	0.37	0.60	0.77	-0.17	-0.48	-0.57	-0.04	-0.03	0.20	
1 GHz	INTERCEPT (mV)	1933														Measured Value (mV)	
	SLOPE (mV/dB)	24.4														Error (mV)	
			229	348	468	596	711	832	964	1088	1212	1316	1438	1557	1692	1815	1935
		2	-1	-3	3	-4	-5	6	8	10	-7	-7	-11	3	4	2	
		0.07	-0.05	-0.14	0.14	-0.16	-0.19	0.25	0.34	0.40	-0.30	-0.31	-0.43	0.11	0.17	0.10	
1.5 GHz	INTERCEPT (mV)	1938														Measured Value (mV)	
	SLOPE (mV/dB)	24.4														Error (mV)	
			232	350	470	596	712	830	962	1086	1209	1319	1445	1565	1699	1823	1939
		5	1	-1	3	-3	-8	1	3	4	-8	-4	-7	6	7	1	
		0.21	0.06	-0.05	0.11	-0.14	-0.33	0.06	0.13	0.15	-0.32	-0.15	-0.28	0.23	0.29	0.02	
2 GHz	INTERCEPT (mV)	1942														Measured Value (mV)	
	SLOPE (mV/dB)	24.7														Error (mV)	
			224	343	462	588	703	819	949	1075	1199	1318	1448	1568	1704	1828	1942
		10	5	1	4	-5	-12	-5	-3	-2	-7	0	-3	9	10	0	
		0.40	0.20	0.04	0.16	-0.20	-0.50	-0.22	-0.12	-0.09	-0.28	0.00	-0.14	0.35	0.39	0.01	
2.5 GHz	INTERCEPT (mV)	1946														Measured Value (mV)	
	SLOPE (mV/dB)	24.9														Error (mV)	
			215	334	453	580	693	808	935	1064	1192	1318	1452	1573	1708	1833	1943
		14	8	2	5	-6	-16	-14	-10	-6	-5	5	1	11	12	-2	
		0.57	0.32	0.09	0.22	-0.26	-0.64	-0.55	-0.39	-0.26	-0.21	0.21	0.05	0.45	0.47	-0.09	
3 GHz	INTERCEPT (mV)	1941														Measured Value (mV)	
	SLOPE (mV/dB)	25														Error (mV)	
			208	326	445	574	687	801	923	1054	1183	1312	1449	1569	1704	1827	1937
		15	8	3	7	-5	-16	-19	-13	-8	-4	8	3	13	12	-3	
		0.60	0.34	0.10	0.28	-0.21	-0.65	-0.76	-0.51	-0.32	-0.17	0.30	0.13	0.51	0.46	-0.13	
3.5 GHz	INTERCEPT (mV)	1941														Measured Value (mV)	
	SLOPE (mV/dB)	24.9														Error (mV)	
			211	330	448	577	688	801	923	1052	1181	1312	1450	1571	1705	1830	1939
		16	10	4	8	-5	-17	-20	-16	-12	-5	8	4	13	14	-2	
		0.64	0.41	0.16	0.34	-0.22	-0.69	-0.81	-0.64	-0.48	-0.20	0.33	0.16	0.54	0.56	-0.08	
4 GHz	INTERCEPT (mV)	1930														Measured Value (mV)	
	SLOPE (mV/dB)	24.8														Error (mV)	
			210	328	446	575	685	797	917	1045	1174	1304	1440	1560	1695	1821	1933
		16	11	5	9	-5	-17	-21	-17	-12	-6	6	2	13	14	2	
		0.64	0.43	0.19	0.37	-0.20	-0.67	-0.85	-0.69	-0.50	-0.24	0.23	0.07	0.51	0.58	0.10	
4.5 GHz	INTERCEPT (mV)	1918														Measured Value (mV)	
	SLOPE (mV/dB)	24.6														Error (mV)	
			210	329	447	574	681	794	916	1041	1167	1295	1429	1549	1695	1809	1923
		15	11	6	9	-7	-16	-18	-15	-13	-7	3	0	13	14	5	
		0.62	0.45	0.23	0.38	-0.27	-0.66	-0.73	-0.63	-0.53	-0.30	0.13	0.01	0.52	0.57	0.21	
5 GHz	INTERCEPT (mV)	1914														Measured Value (mV)	
	SLOPE (mV/dB)	24.5														Error (mV)	
			210	329	445	571	679	795	918	1044	1170	1293	1423	1544	1680	1804	1920
		14	10	4	7	-8	-15	-14	-11	-7	-8	0	-2	11	12	6	
		0.59	0.41	0.17	0.28	-0.33	-0.61	-0.57	-0.44	-0.29	-0.32	0.00	-0.10	0.46	0.50	0.25	
5.5 GHz	INTERCEPT (mV)	1906														Measured Value (mV)	
	SLOPE (mV/dB)	24.6														Error (mV)	
			199	315	429	554	671	792	915	1042	1169	1287	1413	1533	1669	1789	1908
		13	6	-2	0	-6	-8	-4	-1	-4	-1	-4	9	7	2	2	
		0.52	0.25	-0.10	0.00	-0.24	-0.31	-0.34	-0.16	0.03	-0.18	-0.05	-0.15	0.36	0.27	0.09	
6 GHz	INTERCEPT (mV)	1902														Measured Value (mV)	
	SLOPE (mV/dB)	24.7														Error (mV)	
			183	295	408	533	665	791	918	1044	1171	1285	1408	1527	1660	1778	1896
		10	-1	-11	-10	-2	1	4	7	10	0	-1	-4	5	-1	-6	
		0.42	-0.05	-0.46	-0.41	-0.09	0.03	0.14	0.28	0.41	0.01	-0.02	-0.17	0.20	-0.04	-0.25	
Average Slope		24.6															
Flatness ± dB																	
Average Offset		212.9															
		1	1.1	1.2	1.3	1	0.8	1	0.9	0.9	0.7	0.9	0.9	1	1.1	0.9	
		183	295	408	533	665	791	915	1041	1167	1285	1408	1527	1660	1778	1896	
		232	350	470	596	712	832	964	1088	1212	1319	1445	1569	1699	1823	1939	



**SUMMARY TEST DATA
ON
SDLVA-500M4G-CD-2**

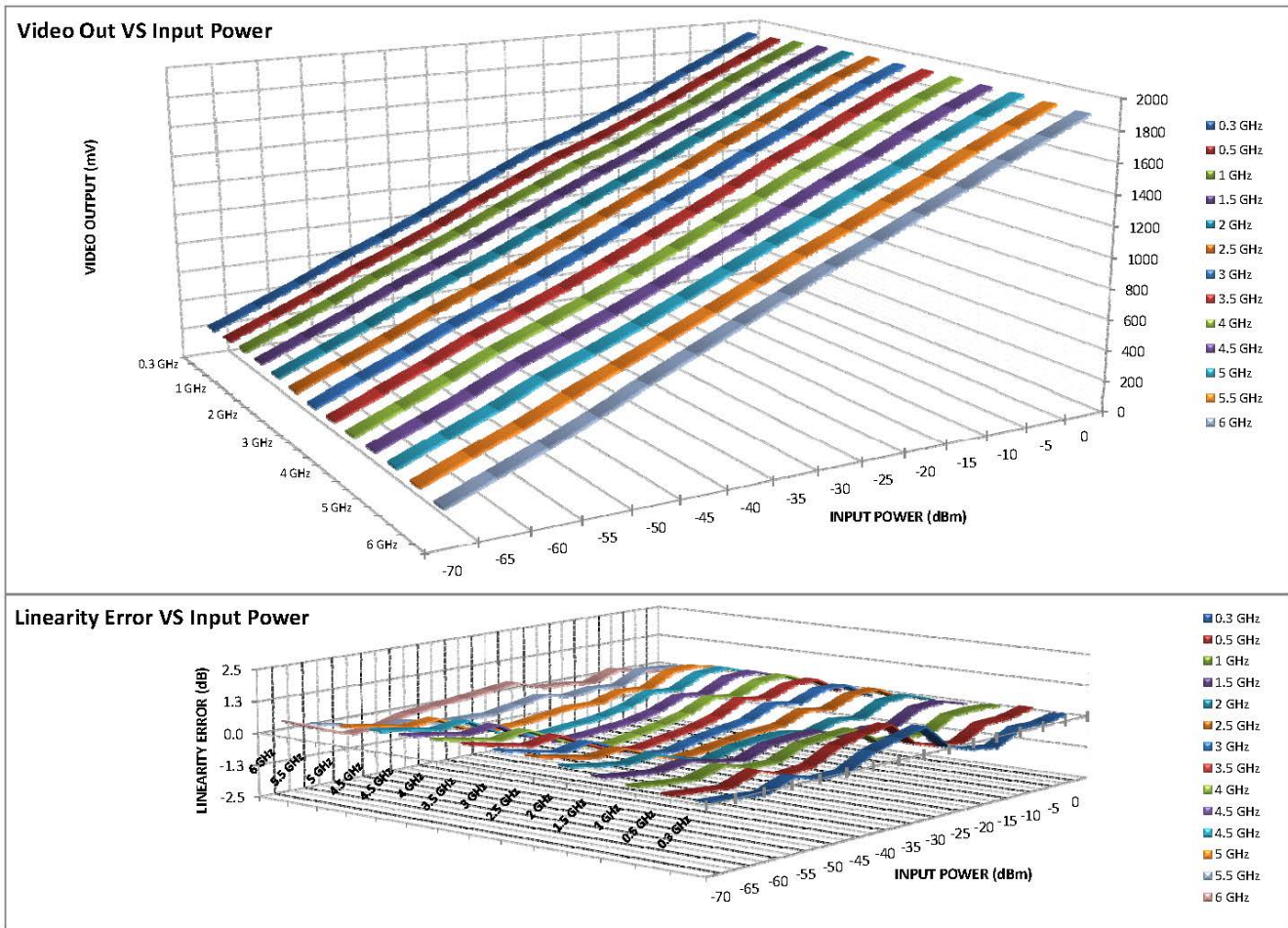
SDLVA-500M4G-CD-2 (2D-Plots) @ -5°C





**SUMMARY TEST DATA
ON
SDLVA-500M4G-CD-2**

SDLVA-500M4G-CD-2 (3D Data) @ -5°C





SUMMARY TEST DATA ON SDLVA-500M4G-CD-2

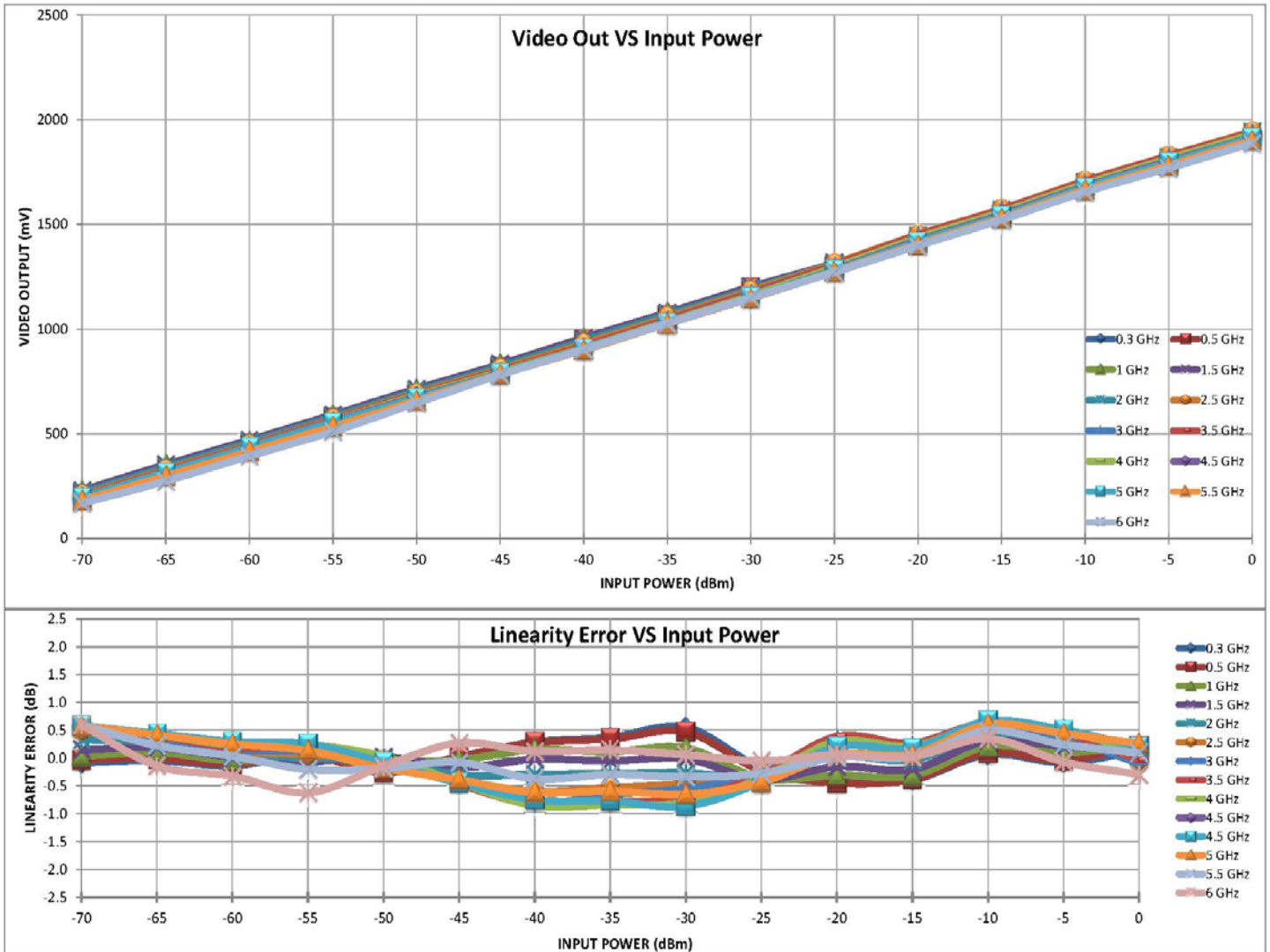
SDLVA-500M4G-CD-2 (Tabulated Data) @ 25°C

		-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
0.3 GHz	INTERCEPT (mV)	209	331	450	576	691	819	947	1070	1196	1300	1417	1538	1671	1789	1915	Measured Value (mV)
	SLOPE (mV/dB)	-2	-1	-3	1	-5	1	7	9	13	-4	-9	-9	2	-2	3	Error (mV)
		-0.08	-0.04	-0.14	0.05	-0.22	0.02	0.29	0.37	0.55	-0.17	-0.38	-0.39	0.07	-0.07	0.13	LINEARITY ERROR (dB)
0.5 GHz	INTERCEPT (mV)	211	333	452	577	690	818	946	1068	1193	1297	1413	1536	1668	1786	1914	Measured Value (mV)
	SLOPE (mV/dB)	-1	0	-3	1	-6	1	7	8	11	-5	-11	-9	2	-1	5	Error (mV)
		-0.03	-0.01	-0.11	0.06	-0.26	0.02	0.28	0.34	0.47	-0.22	-0.45	-0.38	0.09	-0.04	0.23	LINEARITY ERROR (dB)
1 GHz	INTERCEPT (mV)	226	349	466	589	708	831	957	1077	1200	1308	1431	1552	1686	1805	1929	Measured Value (mV)
	SLOPE (mV/dB)	1	3	-1	0	-2	-1	4	3	4	-9	-7	-8	5	3	5	Error (mV)
		0.04	0.10	-0.04	0.01	-0.08	-0.03	0.16	0.11	0.18	-0.36	-0.31	-0.31	0.21	0.11	0.22	LINEARITY ERROR (dB)
1.5 GHz	INTERCEPT (mV)	229	352	470	590	714	831	956	1077	1200	1313	1440	1561	1695	1815	1935	Measured Value (mV)
	SLOPE (mV/dB)	4	5	0	-1	1	-4	0	-1	0	-9	-4	-5	8	5	3	Error (mV)
		0.15	0.19	0.02	-0.06	0.02	-0.16	-0.02	-0.05	-0.01	-0.38	-0.15	-0.20	0.31	0.21	0.13	LINEARITY ERROR (dB)
2 GHz	INTERCEPT (mV)	217	340	458	580	703	819	943	1066	1190	1312	1444	1566	1701	1821	1939	Measured Value (mV)
	SLOPE (mV/dB)	8	7	2	0	0	-7	-7	-7	-7	-9	1	-1	11	7	2	Error (mV)
		0.33	0.29	0.08	0.00	-0.02	-0.30	-0.29	-0.28	-0.27	-0.34	0.03	-0.04	0.44	0.28	0.08	LINEARITY ERROR (dB)
2.5 GHz	INTERCEPT (mV)	206	328	447	570	693	808	929	1055	1182	1311	1450	1572	1706	1827	1942	Measured Value (mV)
	SLOPE (mV/dB)	12	9	3	2	-1	-10	-15	-13	-11	-7	7	4	13	9	-1	Error (mV)
		0.50	0.35	0.13	0.06	-0.04	-0.41	-0.60	-0.53	-0.45	-0.28	0.26	0.16	0.54	0.36	-0.05	LINEARITY ERROR (dB)
3 GHz	INTERCEPT (mV)	199	319	439	564	686	801	916	1045	1173	1305	1446	1568	1703	1822	1935	Measured Value (mV)
	SLOPE (mV/dB)	14	9	4	3	0	-10	-20	-16	-14	-7	9	6	15	9	-2	Error (mV)
		0.56	0.35	0.15	0.13	0.00	-0.42	-0.81	-0.66	-0.55	-0.26	0.35	0.25	0.62	0.38	-0.10	LINEARITY ERROR (dB)
3.5 GHz	INTERCEPT (mV)	201	322	442	567	687	800	916	1042	1169	1304	1447	1569	1703	1824	1936	Measured Value (mV)
	SLOPE (mV/dB)	15	10	5	5	0	-12	-21	-20	-18	-8	10	7	16	11	-1	Error (mV)
		0.59	0.41	0.19	0.21	0.01	-0.46	-0.84	-0.79	-0.72	-0.31	0.39	0.27	0.64	0.46	-0.04	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	197	317	437	562	681	794	908	1033	1158	1293	1434	1557	1692	1813	1928	Measured Value (mV)
	SLOPE (mV/dB)	15	10	6	6	1	-11	-21	-21	-20	-9	8	5	16	12	3	Error (mV)
		0.59	0.42	0.24	0.24	0.03	-0.44	-0.85	-0.84	-0.80	-0.36	0.30	0.22	0.64	0.49	0.11	LINEARITY ERROR (dB)
4.5 GHz	INTERCEPT (mV)	196	316	436	558	673	788	904	1027	1148	1282	1422	1545	1680	1800	1916	Measured Value (mV)
	SLOPE (mV/dB)	14	11	7	6	-2	-11	-18	-19	-21	-11	5	4	16	13	5	Error (mV)
		0.59	0.44	0.30	0.25	-0.08	-0.45	-0.75	-0.77	-0.86	-0.44	0.20	0.18	0.66	0.51	0.21	LINEARITY ERROR (dB)
5 GHz	INTERCEPT (mV)	194	313	433	553	669	787	904	1028	1150	1279	1415	1538	1675	1794	1913	Measured Value (mV)
	SLOPE (mV/dB)	14	10	6	3	-4	-10	-15	-15	-16	-11	2	2	15	11	7	Error (mV)
		0.59	0.42	0.26	0.13	-0.18	-0.39	-0.61	-0.59	-0.65	-0.43	0.07	0.07	0.61	0.45	0.27	LINEARITY ERROR (dB)
5.5 GHz	INTERCEPT (mV)	183	297	416	534	657	784	900	1025	1148	1273	1404	1528	1663	1780	1900	Measured Value (mV)
	SLOPE (mV/dB)	15	6	1	-5	-5	-2	-9	-7	-8	-7	0	1	12	6	2	Error (mV)
		0.60	0.23	0.04	-0.20	-0.18	-0.08	-0.37	-0.30	-0.34	-0.27	0.02	0.03	0.50	0.25	0.09	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	168	274	394	511	647	781	902	1027	1149	1271	1398	1522	1654	1768	1886	Measured Value (mV)
	SLOPE (mV/dB)	15	3	8	-15	-4	7	3	4	1	1	1	1	9	-2	-7	Error (mV)
		0.60	-0.14	-0.32	-0.62	-0.14	0.27	0.12	0.14	0.06	-0.05	0.06	0.03	0.35	-0.07	-0.30	LINEARITY ERROR (dB)
Average Slope		1.2	1.6	1.5	1.6	1.3	1	1.1	1	1	0.8	1	1	1.1	1.2	1.1	
Flatness ± dB		168	274	394	511	647	781	900	1025	1148	1271	1398	1522	1654	1768	1886	
Average Offset		229	352	470	590	714	831	957	1077	1200	1313	1450	1572	1706	1827	1942	



SUMMARY TEST DATA ON SDLVA-500M4G-CD-2

SDLVA-500M4G-CD-2 (2D-Plots) @ 25°C

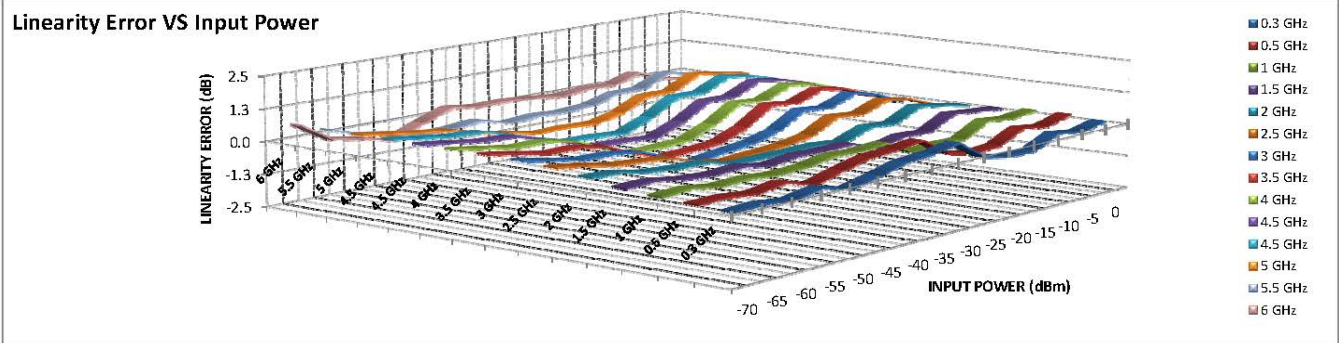
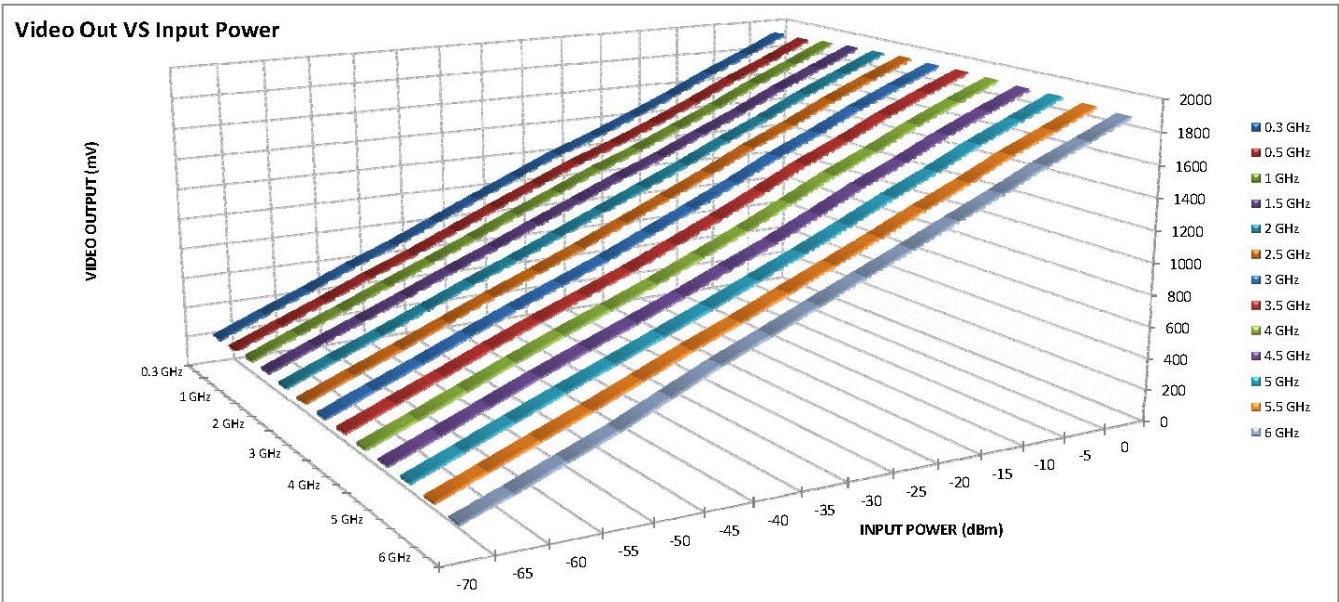


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SUMMARY TEST DATA ON SDLVA-500M4G-CD-2

SDLVA-500M4G -CD-2 (3D Data) @ 25°C





SUMMARY TEST DATA ON SDLVA-500M4G-CD-2

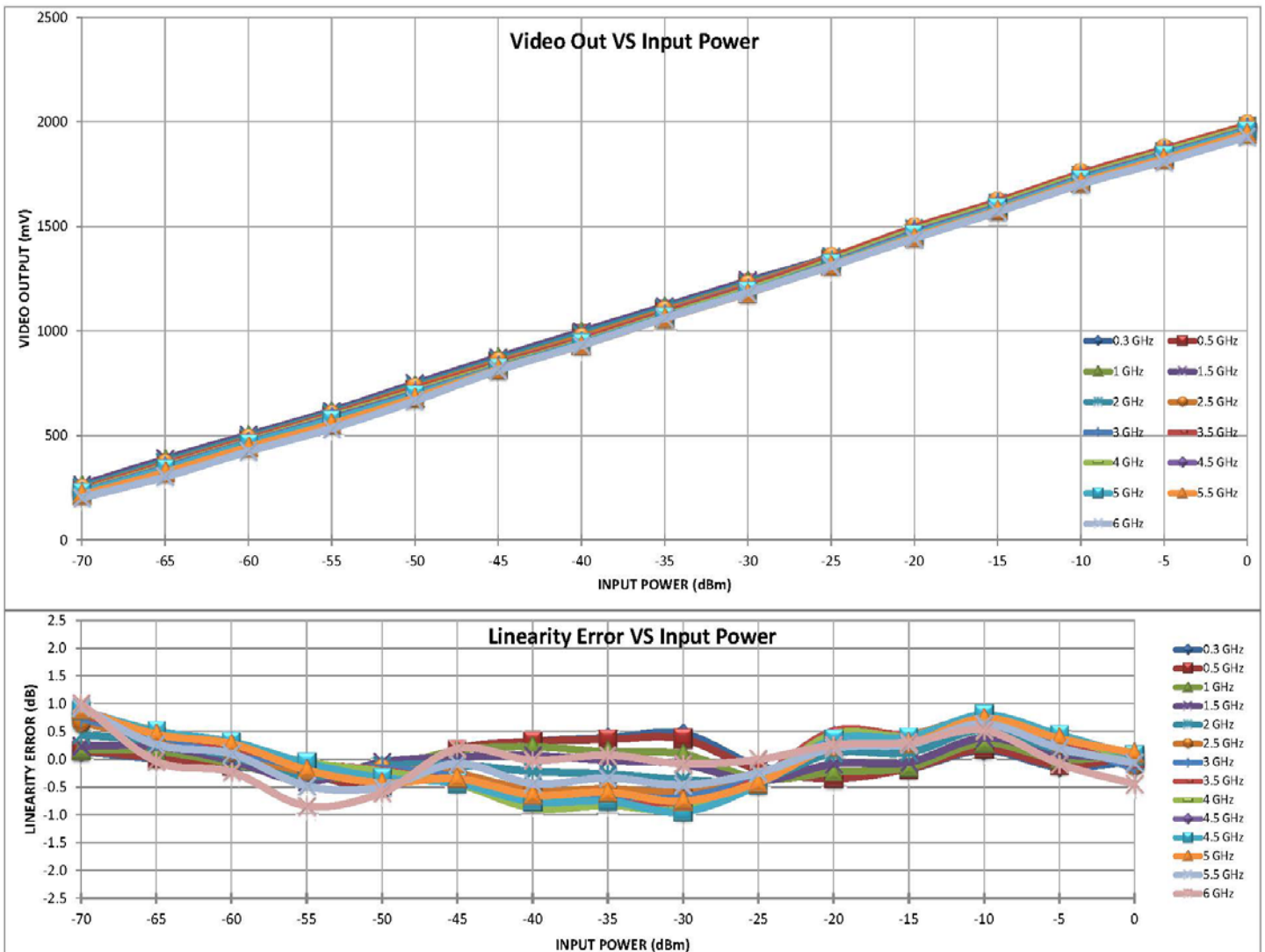
SDLVA-500M4G-CD-2 (Tabulated Data) @ 50°C

			-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
0.3 GHz	INTERCEPT (mV)	1959	240	360	480	599	717	856	983	1107	1232	1341	1460	1586	1717	1833	1958	Measured Value (mV)
	SLOPE (mV/dB)	24.6	4	0	-3	-7	-12	4	8	9	11	-3	-7	-4	4	-3	-1	Error (mV)
			0.14	0.00	-0.12	-0.27	-0.50	0.15	0.32	0.39	0.46	-0.12	-0.27	-0.17	0.16	-0.14	-0.04	LINEARITY ERROR (dB)
0.5 GHz	INTERCEPT (mV)	1955	242	361	481	599	716	855	982	1105	1228	1337	1456	1583	1714	1830	1956	Measured Value (mV)
	SLOPE (mV/dB)	24.5	4	1	-2	-6	-12	4	8	9	9	-4	-9	-4	5	-3	1	Error (mV)
			0.15	0.03	-0.10	-0.26	-0.49	0.18	0.32	0.36	0.37	-0.18	-0.35	-0.17	0.19	-0.10	0.05	LINEARITY ERROR (dB)
1 GHz	INTERCEPT (mV)	1969	257	379	497	612	739	870	994	1114	1236	1348	1473	1598	1731	1846	1971	Measured Value (mV)
	SLOPE (mV/dB)	24.5	4	4	-2	-9	-5	4	6	3	2	-8	-6	-3	7	0	2	Error (mV)
			0.17	0.15	-0.07	-0.35	-0.19	0.16	0.23	0.13	0.09	-0.35	-0.23	-0.14	0.30	0.00	0.09	LINEARITY ERROR (dB)
1.5 GHz	INTERCEPT (mV)	1977	263	386	502	616	747	872	996	1116	1238	1353	1483	1607	1741	1856	1977	Measured Value (mV)
	SLOPE (mV/dB)	24.6	6	6	-1	-10	-1	1	2	0	-2	-9	-2	-1	10	2	1	Error (mV)
			0.24	0.24	-0.03	-0.40	-0.05	0.04	0.07	-0.02	-0.08	-0.39	-0.08	-0.05	0.39	0.10	0.02	LINEARITY ERROR (dB)
2 GHz	INTERCEPT (mV)	1982	251	373	491	606	735	860	982	1105	1227	1351	1488	1612	1747	1862	1982	Measured Value (mV)
	SLOPE (mV/dB)	24.9	11	8	1	-8	-3	-3	-5	-7	-9	-9	3	3	13	4	0	Error (mV)
			0.44	0.32	0.05	-0.30	-0.12	-0.10	-0.21	-0.26	-0.37	-0.38	0.11	0.12	0.53	0.17	-0.01	LINEARITY ERROR (dB)
2.5 GHz	INTERCEPT (mV)	1988	242	362	481	598	725	849	967	1093	1218	1350	1494	1619	1753	1869	1985	Measured Value (mV)
	SLOPE (mV/dB)	25.2	17	10	3	-5	-4	-7	-14	-13	-15	-8	9	8	16	7	-3	Error (mV)
			0.66	0.40	0.12	-0.22	-0.18	-0.26	-0.56	-0.53	-0.59	-0.33	0.36	0.33	0.65	0.26	-0.12	LINEARITY ERROR (dB)
3 GHz	INTERCEPT (mV)	1983	237	355	475	593	719	841	955	1084	1210	1345	1490	1615	1749	1865	1979	Measured Value (mV)
	SLOPE (mV/dB)	25.2	19	10	4	-3	-4	-8	-19	-17	-17	-8	11	10	19	8	-4	Error (mV)
			0.74	0.42	0.17	-0.14	-0.16	-0.32	-0.77	-0.66	-0.68	-0.32	0.45	0.41	0.74	0.31	-0.16	LINEARITY ERROR (dB)
3.5 GHz	INTERCEPT (mV)	1984	240	358	477	596	719	839	954	1082	1207	1345	1493	1617	1751	1867	1981	Measured Value (mV)
	SLOPE (mV/dB)	25.2	20	13	6	-2	-5	-11	-21	-20	-21	-9	13	11	19	10	-3	Error (mV)
			0.80	0.50	0.22	-0.06	-0.20	-0.42	-0.85	-0.78	-0.84	-0.35	0.51	0.45	0.76	0.38	-0.11	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	1972	233	351	470	588	709	830	944	1071	1195	1333	1480	1605	1740	1857	1972	Measured Value (mV)
	SLOPE (mV/dB)	25.1	21	13	7	-1	-5	-11	-22	-21	-23	-10	11	11	19	11	0	Error (mV)
			0.85	0.51	0.28	-0.05	-0.22	-0.43	-0.88	-0.83	-0.90	-0.40	0.45	0.42	0.77	0.42	0.01	LINEARITY ERROR (dB)
4.5 GHz	INTERCEPT (mV)	1958	229	345	465	581	699	822	939	1064	1184	1321	1467	1593	1728	1844	1960	Measured Value (mV)
	SLOPE (mV/dB)	25	22	13	8	-2	-8	-11	-19	-19	-24	-11	9	10	20	11	2	Error (mV)
			0.88	0.51	0.31	-0.07	-0.33	-0.43	-0.76	-0.75	-0.94	-0.46	0.36	0.40	0.79	0.44	0.06	LINEARITY ERROR (dB)
5 GHz	INTERCEPT (mV)	1953	225	339	460	573	692	819	937	1063	1184	1318	1459	1585	1722	1838	1956	Measured Value (mV)
	SLOPE (mV/dB)	25	22	11	7	-5	-11	-9	-16	-15	-19	-10	6	7	18	9	3	Error (mV)
			0.89	0.45	0.28	-0.19	-0.42	-0.35	-0.64	-0.59	-0.75	-0.42	0.23	0.29	0.74	0.37	0.11	LINEARITY ERROR (dB)
5.5 GHz	INTERCEPT (mV)	1944	215	323	444	555	679	815	931	1059	1181	1312	1448	1575	1710	1824	1942	Measured Value (mV)
	SLOPE (mV/dB)	25	24	7	2	-12	-13	-2	-11	-8	-12	-6	5	7	16	5	-2	Error (mV)
			0.94	0.27	0.10	-0.48	-0.51	-0.08	-0.44	-0.34	-0.46	-0.24	0.20	0.27	0.63	0.20	-0.07	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	1939	202	302	423	533	665	811	932	1060	1182	1310	1442	1569	1701	1811	1928	Measured Value (mV)
	SLOPE (mV/dB)	25.2	25	-1	-6	-21	-15	5	0	2	-2	0	6	8	13	2	-11	Error (mV)
			1.00	-0.04	-0.23	-0.84	-0.60	0.19	-0.02	0.07	-0.08	-0.01	0.26	0.30	0.52	-0.08	-0.45	LINEARITY ERROR (dB)
Average Slope			24.8															
Flatness ± dB																		
Average Offset			236.7															
			1.2	1.7	1.6	1.6	1.6	1.2	1.3	1.1	1.1	0.9	1	1	1	1.1	1.1	
			202	302	423	533	665	811	931	1059	1181	1310	1442	1569	1701	1811	1928	
			263	386	502	616	747	872	996	1116	1238	1353	1494	1619	1753	1869	1985	



SUMMARY TEST DATA ON SDLVA-500M4G-CD-2

SDLVA-500M4G-CD-2 (2D-Plots) @ 50°C

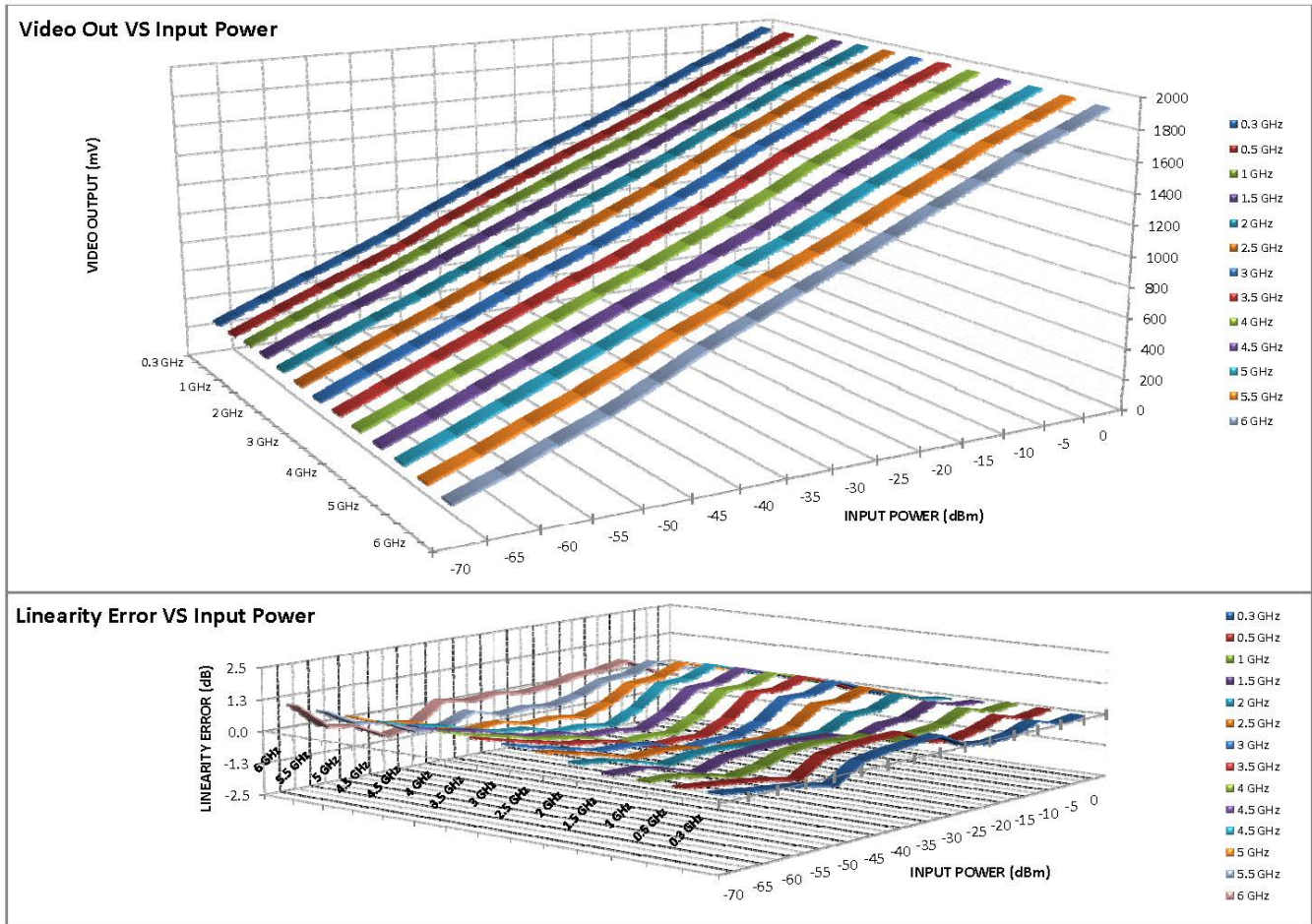


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SUMMARY TEST DATA ON SDLVA-500M4G-CD-2

SDLVA-500M4G-CD-2 (3D Data) @ 50°C





SUMMARY TEST DATA ON SDLVA-500M4G-CD-2

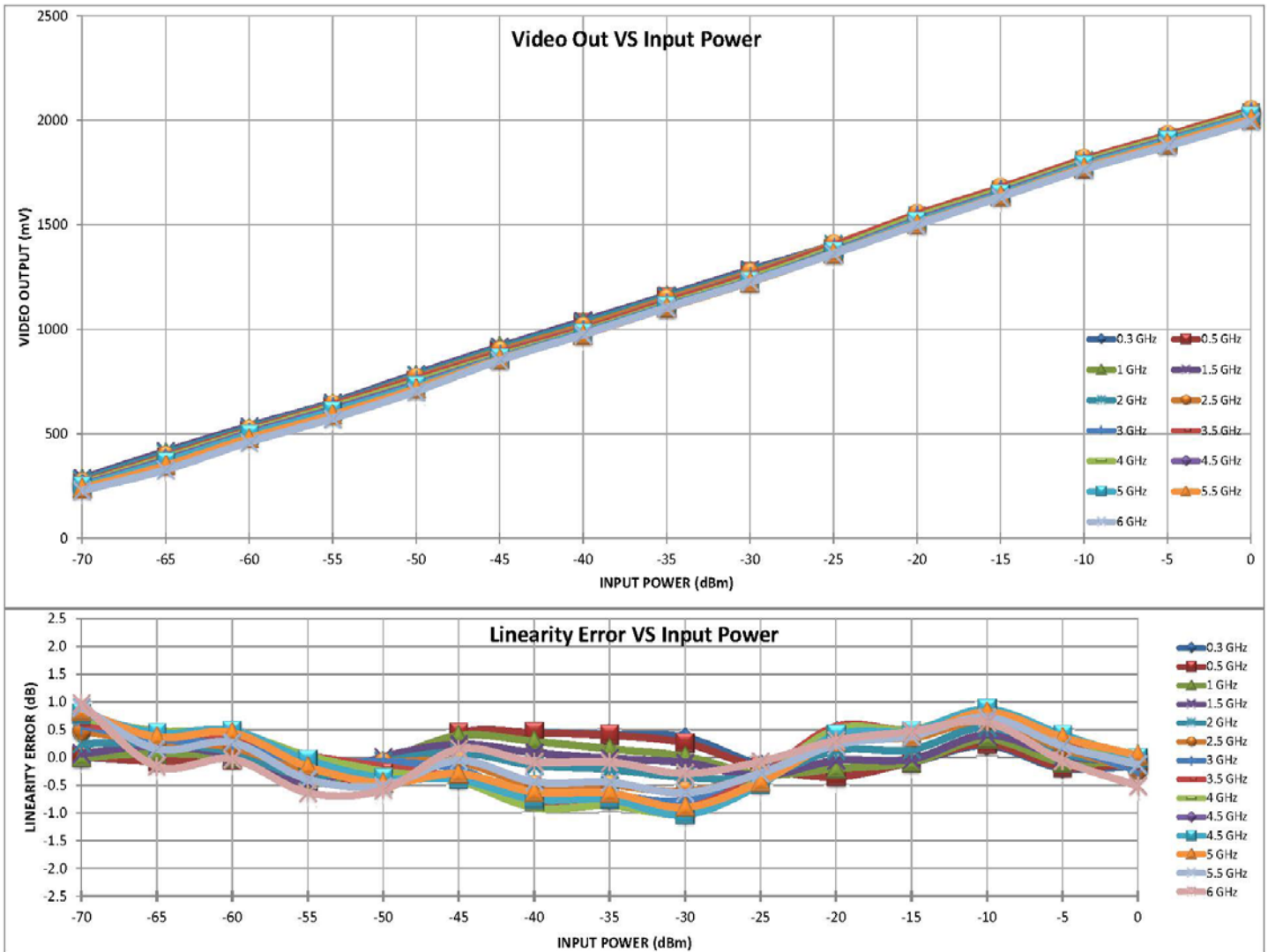
SDLVA-500M4G-CD-2 (Tabulated Data) @ 75°C

			-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
0.3 GHz	INTERCEPT (mV)	2018	266	390	515	631	755	901	1028	1152	1276	1389	1510	1640	1773	1888	2014	Measured Value (mV)
	SLOPE (mV/dB)	25	0	-2	-1	-10	-11	10	11	10	9	-3	-7	-2	5	-5	-4	Error (mV)
			0.01	-0.06	-0.03	-0.42	-0.46	0.39	0.45	0.41	0.36	-0.13	-0.29	-0.08	0.21	-0.19	-0.16	LINEARITY ERROR (dB)
0.5 GHz	INTERCEPT (mV)	2015	264	387	513	629	754	900	1025	1149	1271	1385	1506	1637	1771	1885	2012	Measured Value (mV)
	SLOPE (mV/dB)	25	0	-2	-1	-10	-10	11	11	10	6	-5	-9	-2	6	-4	-3	Error (mV)
			0.02	-0.07	-0.03	-0.42	-0.40	0.43	0.44	0.40	0.26	-0.18	-0.35	-0.08	0.24	-0.17	-0.10	LINEARITY ERROR (dB)
1 GHz	INTERCEPT (mV)	2028	278	405	528	641	776	913	1035	1157	1278	1395	1523	1651	1786	1901	2027	Measured Value (mV)
	SLOPE (mV/dB)	25	0	2	0	-12	-2	10	7	4	0	-8	-5	-2	8	-2	-1	Error (mV)
			0.00	0.07	-0.02	-0.47	-0.07	0.40	0.29	0.16	0.02	-0.30	-0.20	-0.09	0.33	-0.08	-0.04	LINEARITY ERROR (dB)
1.5 GHz	INTERCEPT (mV)	2036	287	415	536	649	786	917	1038	1160	1284	1403	1535	1660	1796	1912	2035	Measured Value (mV)
	SLOPE (mV/dB)	25	2	5	1	-11	0	6	2	0	-2	-8	-1	-1	10	1	-2	Error (mV)
			0.06	0.21	0.03	-0.45	0.01	0.24	0.09	-0.02	-0.10	-0.33	-0.06	-0.03	0.41	0.02	-0.07	LINEARITY ERROR (dB)
2 GHz	INTERCEPT (mV)	2045	277	404	527	643	776	907	1028	1152	1275	1403	1541	1668	1805	1920	2041	Measured Value (mV)
	SLOPE (mV/dB)	25.3	6	7	2	-9	-2	2	-4	-5	-9	-9	3	4	14	2	-3	Error (mV)
			0.25	0.26	0.10	-0.34	-0.07	0.09	-0.14	-0.21	-0.36	-0.34	0.13	0.14	0.55	0.08	-0.13	LINEARITY ERROR (dB)
2.5 GHz	INTERCEPT (mV)	2052	267	391	516	634	766	894	1012	1141	1266	1403	1549	1676	1812	1928	2046	Measured Value (mV)
	SLOPE (mV/dB)	25.7	12	8	5	-6	-2	-2	-13	-13	-16	-7	10	9	17	4	-6	Error (mV)
			0.47	0.30	0.18	-0.23	-0.10	-0.09	-0.49	-0.49	-0.61	-0.28	0.40	0.36	0.66	0.16	-0.23	LINEARITY ERROR (dB)
3 GHz	INTERCEPT (mV)	2047	262	384	512	631	760	885	999	1129	1256	1397	1546	1674	1810	1925	2041	Measured Value (mV)
	SLOPE (mV/dB)	25.7	15	8	7	-2	-2	-5	-19	-18	-20	-7	13	12	20	6	-6	Error (mV)
			0.58	0.33	0.27	-0.09	-0.08	-0.21	-0.76	-0.70	-0.77	-0.28	0.50	0.47	0.77	0.23	-0.24	LINEARITY ERROR (dB)
3.5 GHz	INTERCEPT (mV)	2048	267	391	517	637	760	883	998	1128	1254	1398	1549	1675	1812	1928	2043	Measured Value (mV)
	SLOPE (mV/dB)	25.7	16	12	10	1	-4	-10	-23	-21	-23	-8	14	13	21	8	-4	Error (mV)
			0.61	0.46	0.37	0.04	-0.17	-0.38	-0.89	-0.82	-0.91	-0.33	0.56	0.50	0.80	0.32	-0.16	LINEARITY ERROR (dB)
4 GHz	INTERCEPT (mV)	2035	261	383	511	628	749	872	988	1117	1242	1385	1536	1664	1801	1917	2034	Measured Value (mV)
	SLOPE (mV/dB)	25.6	18	12	12	1	-6	-11	-23	-22	-26	-10	13	13	21	10	-2	Error (mV)
			0.71	0.48	0.46	0.03	-0.25	-0.42	-0.90	-0.87	-1.00	-0.39	0.51	0.50	0.84	0.38	-0.06	LINEARITY ERROR (dB)
4.5 GHz	INTERCEPT (mV)	2023	255	373	502	617	736	863	982	1109	1230	1372	1522	1652	1789	1905	2022	Measured Value (mV)
	SLOPE (mV/dB)	25.5	20	11	12	-1	-10	-10	-19	-19	-26	-12	10	12	22	10	0	Error (mV)
			0.79	0.44	0.48	-0.04	-0.37	-0.40	-0.75	-0.75	-1.03	-0.48	0.40	0.48	0.86	0.40	-0.02	LINEARITY ERROR (dB)
5 GHz	INTERCEPT (mV)	2018	249	365	495	607	728	860	979	1107	1228	1368	1514	1644	1783	1900	2019	Measured Value (mV)
	SLOPE (mV/dB)	25.6	21	9	11	-4	-12	-7	-16	-16	-23	-11	7	9	21	9	1	Error (mV)
			0.84	0.37	0.44	-0.17	-0.46	-0.29	-0.62	-0.64	-0.90	-0.44	0.27	0.37	0.82	0.36	0.04	LINEARITY ERROR (dB)
5.5 GHz	INTERCEPT (mV)	2010	239	347	479	590	715	855	973	1101	1225	1362	1503	1635	1772	1887	2007	Measured Value (mV)
	SLOPE (mV/dB)	25.6	23	4	7	-10	-13	-1	-11	-11	-16	-7	6	10	18	5	-3	Error (mV)
			0.91	0.15	0.27	-0.39	-0.50	-0.05	-0.44	-0.45	-0.64	-0.28	0.23	0.39	0.72	0.21	-0.12	LINEARITY ERROR (dB)
6 GHz	INTERCEPT (mV)	2006	227	327	459	573	703	851	974	1102	1226	1360	1499	1632	1765	1876	1993	Measured Value (mV)
	SLOPE (mV/dB)	25.8	25	-4	-1	-16	-15	4	-2	-2	-7	-2	8	12	16	-1	-13	Error (mV)
			0.97	-0.16	-0.03	-0.64	-0.59	0.15	-0.08	-0.08	-0.29	-0.08	0.30	0.47	0.63	-0.06	-0.51	LINEARITY ERROR (dB)
Average Slope			25.4															
Flatness ± dB			1.2	1.7	1.5	1.5	1.6	1.3	1.3	1.1	1.1	0.8	1	0.9	0.9	1	1	
Average Offset			227	327	459	573	703	851	973	1101	1225	1360	1499	1632	1765	1876	1993	
			287	415	536	649	786	917	1038	1160	1284	1403	1549	1676	1812	1928	2046	



SUMMARY TEST DATA ON SDLVA-500M4G-CD-2

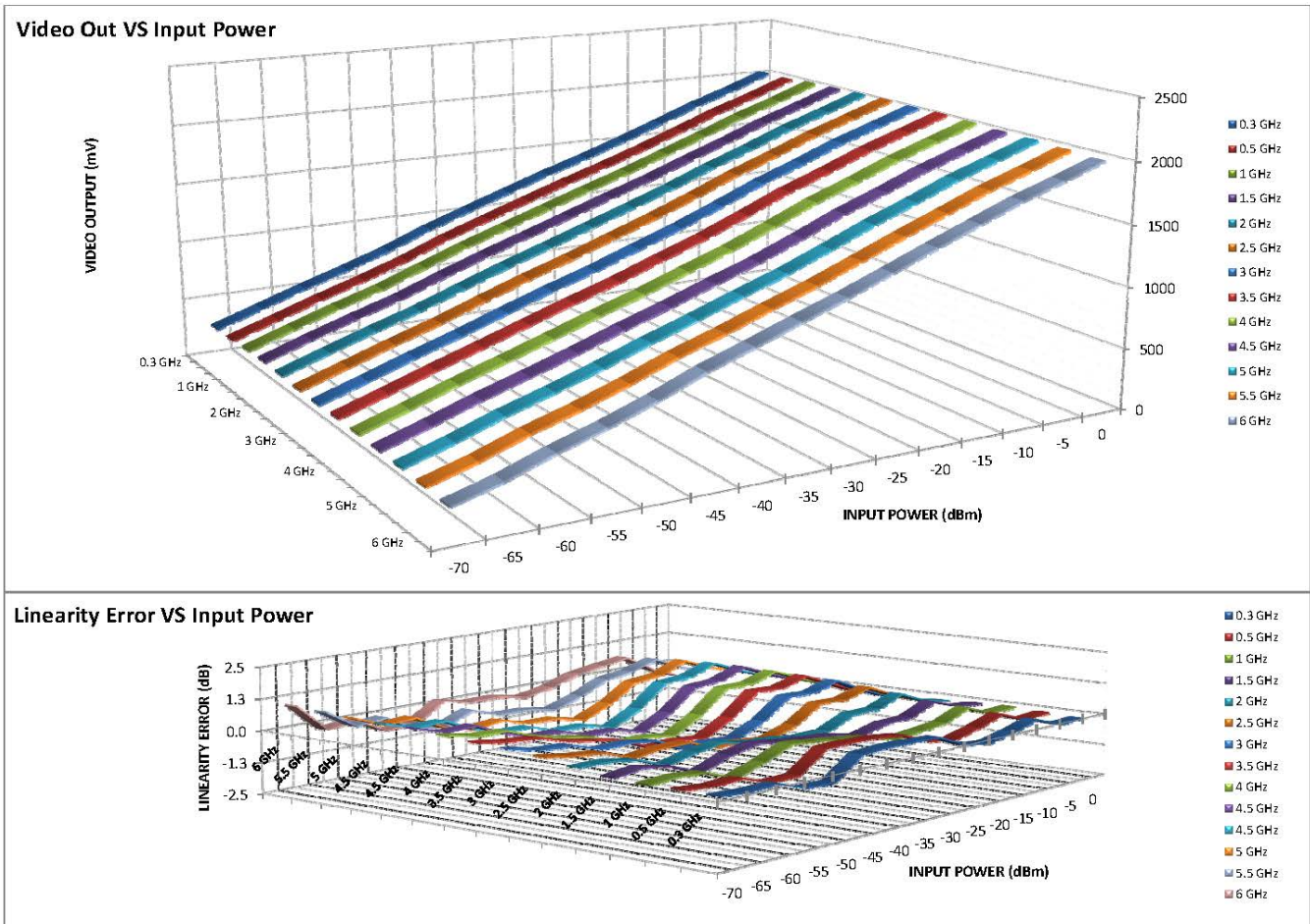
SDLVA-500M4G-CD-2 (2D-Plots) @ 75°C





SUMMARY TEST DATA ON SDLVA-500M4G-CD-2

SDLVA-500M4G-CD-2 (3D Data) @ 75°C

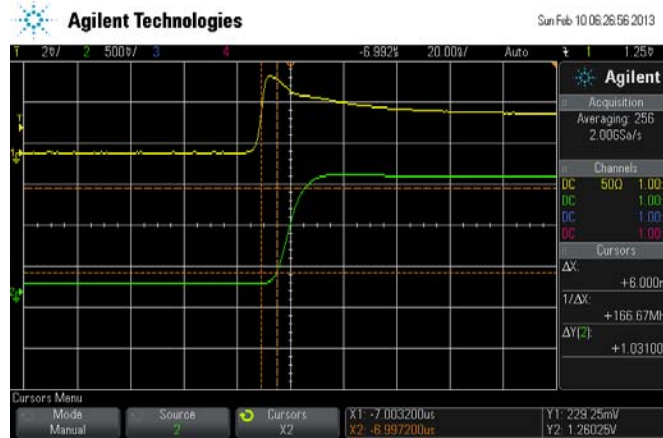


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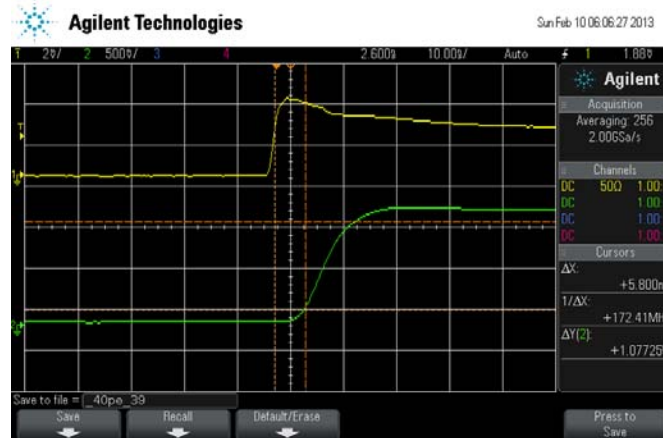


SUMMARY TEST DATA ON SDLVA-500M4G-CD-2

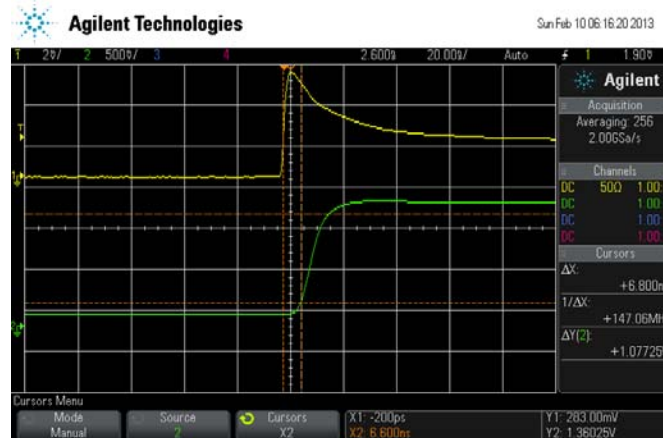
Delay Time (50%RF to 10%Video), 3GHz @ 25°C



Delay Time (50%RF to 10%Video), 3GHz @ -40°C



Delay Time (50%RF to 10%Video), 3GHz @ 75°C

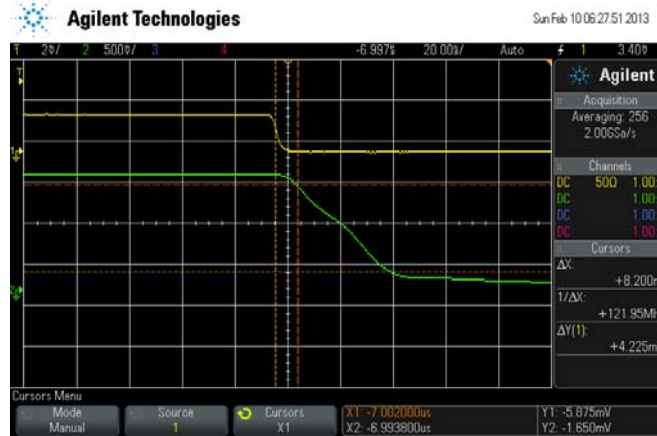


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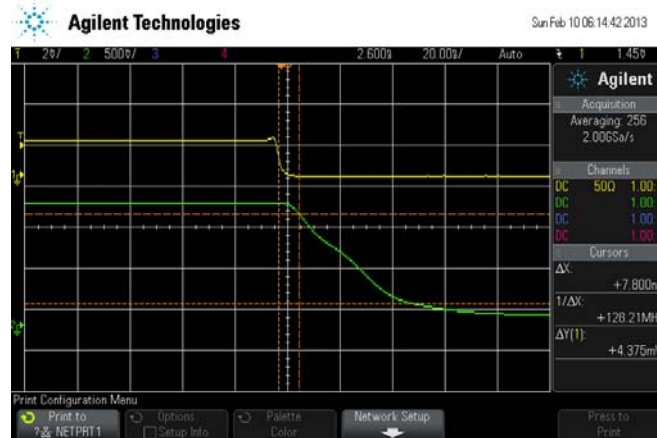


SUMMARY TEST DATA ON SDLVA-500M4G-CD-2

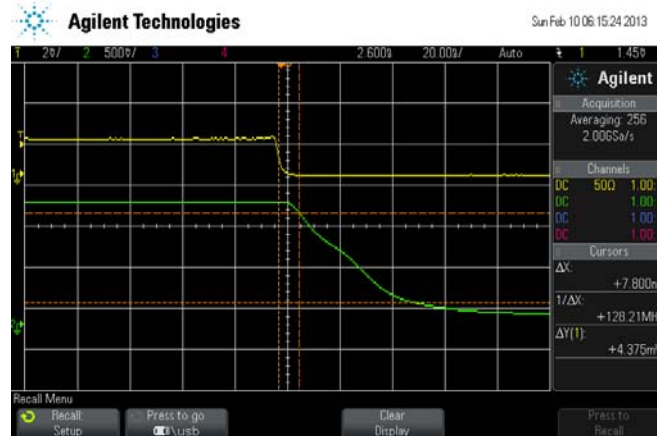
Delay Time (50%RF to 90%Video), 3GHz @ 25°C



Delay Time (50%RF to 90%Video), 3GHz @ -40°C



Delay Time (50%RF to 90%Video), 3GHz @ 75°C

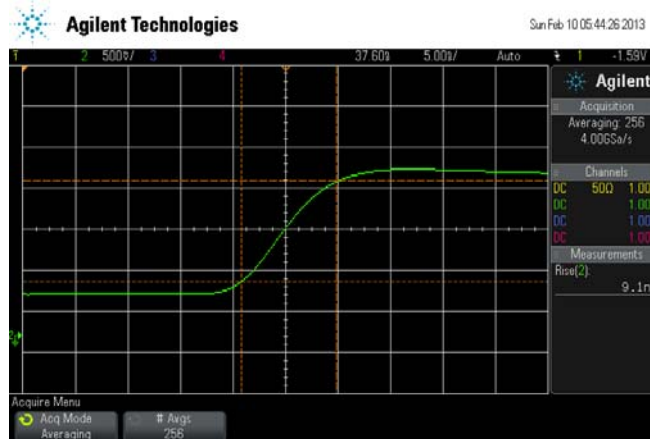


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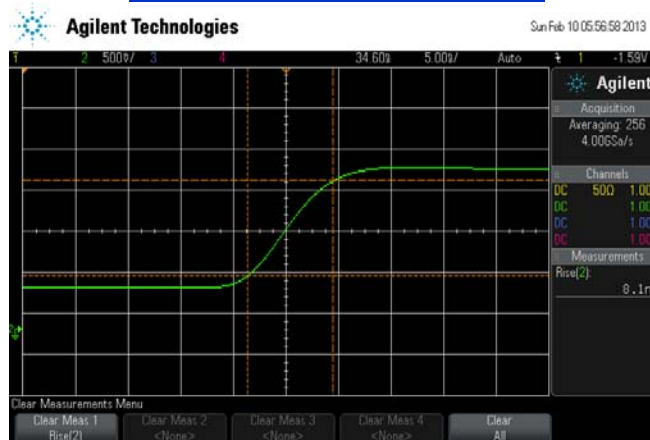


SUMMARY TEST DATA ON SDLVA-500M4G-CD-2

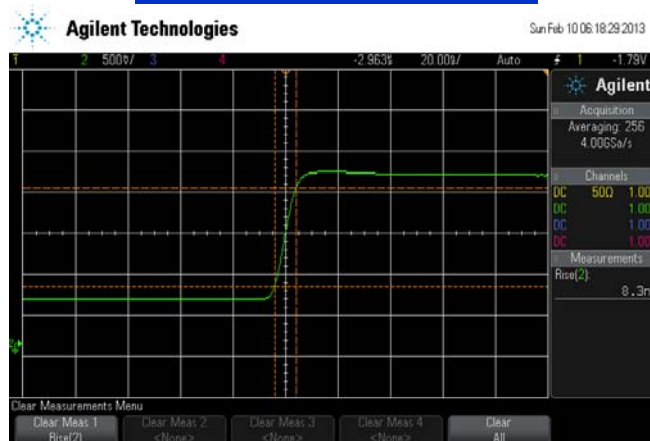
Rise Time, 3GHz @ 25°C



Rise Time, 3GHz @ -40°C



Rise Time, 3GHz @ 75°C

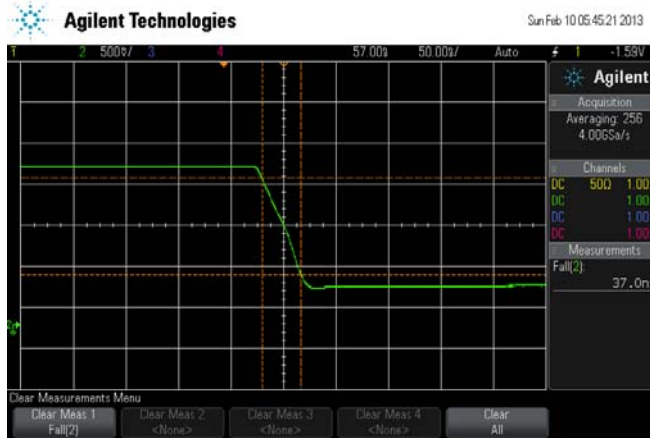


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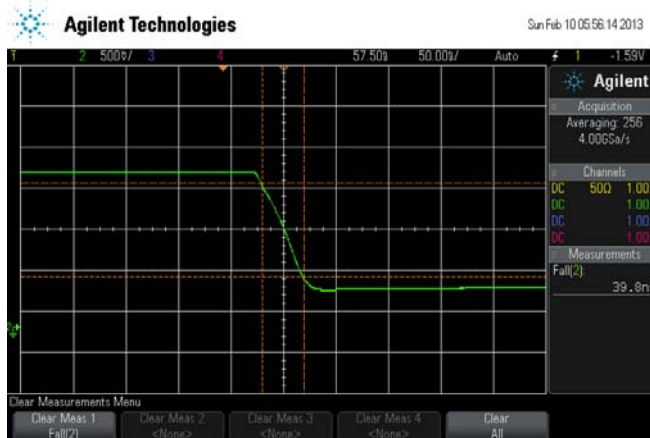


SUMMARY TEST DATA ON SDLVA-500M4G-CD-2

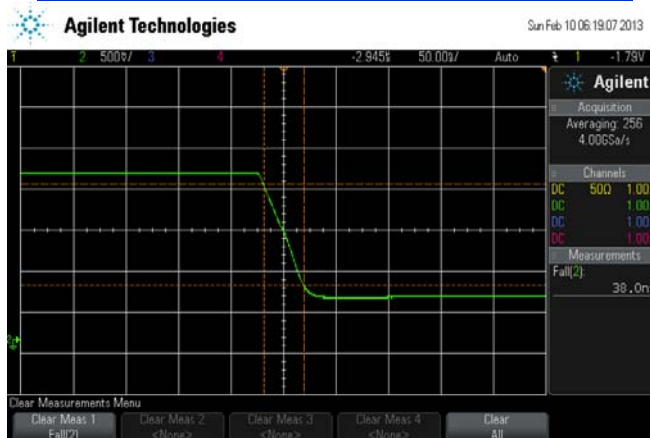
Fall & Recovery Time, 3GHz @ 25°C



Fall & Recovery Time, 3GHz @ -40°C



Fall & Recovery Time, 3GHz @ 75°C

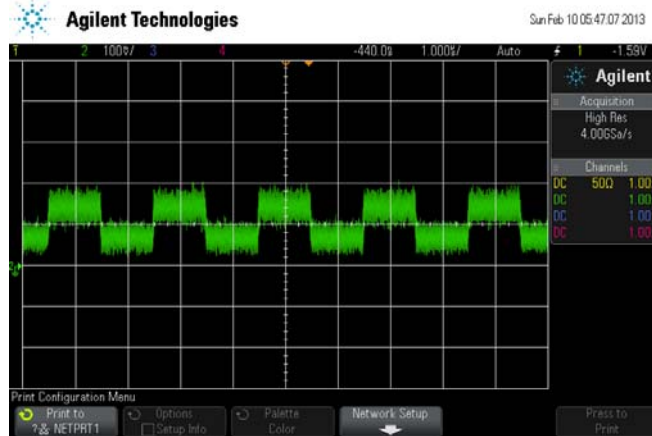


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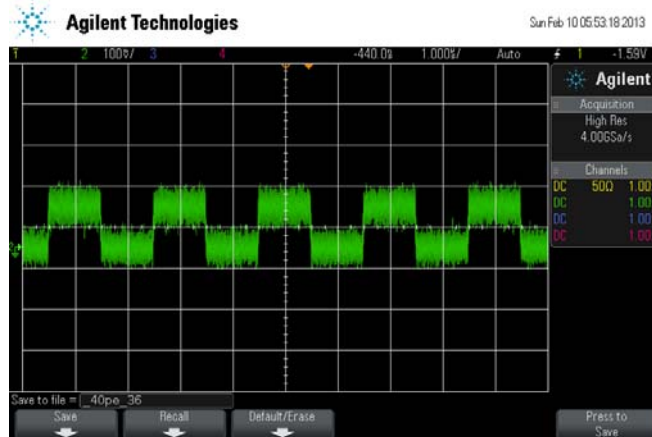


**SUMMARY TEST DATA
ON
SDLVA-500M4G-CD-2**

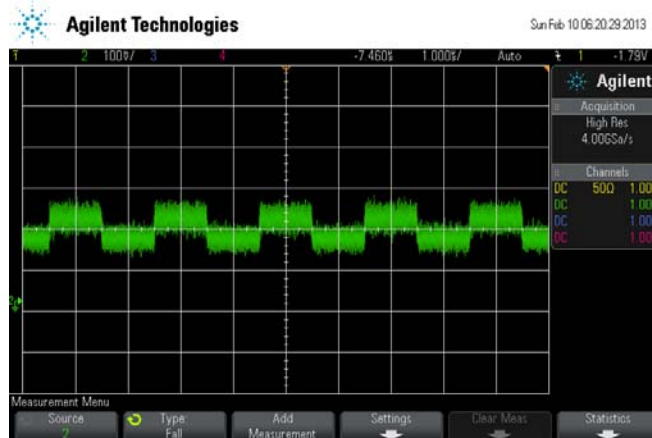
Tangential Signal Sensitivity (TSS), 3GHz, -73dBm @ 25°C



Tangential Signal Sensitivity (TSS), 3GHz, -73dBm @ -40°C



Tangential Signal Sensitivity (TSS), 3GHz, -73dBm @ 75°C

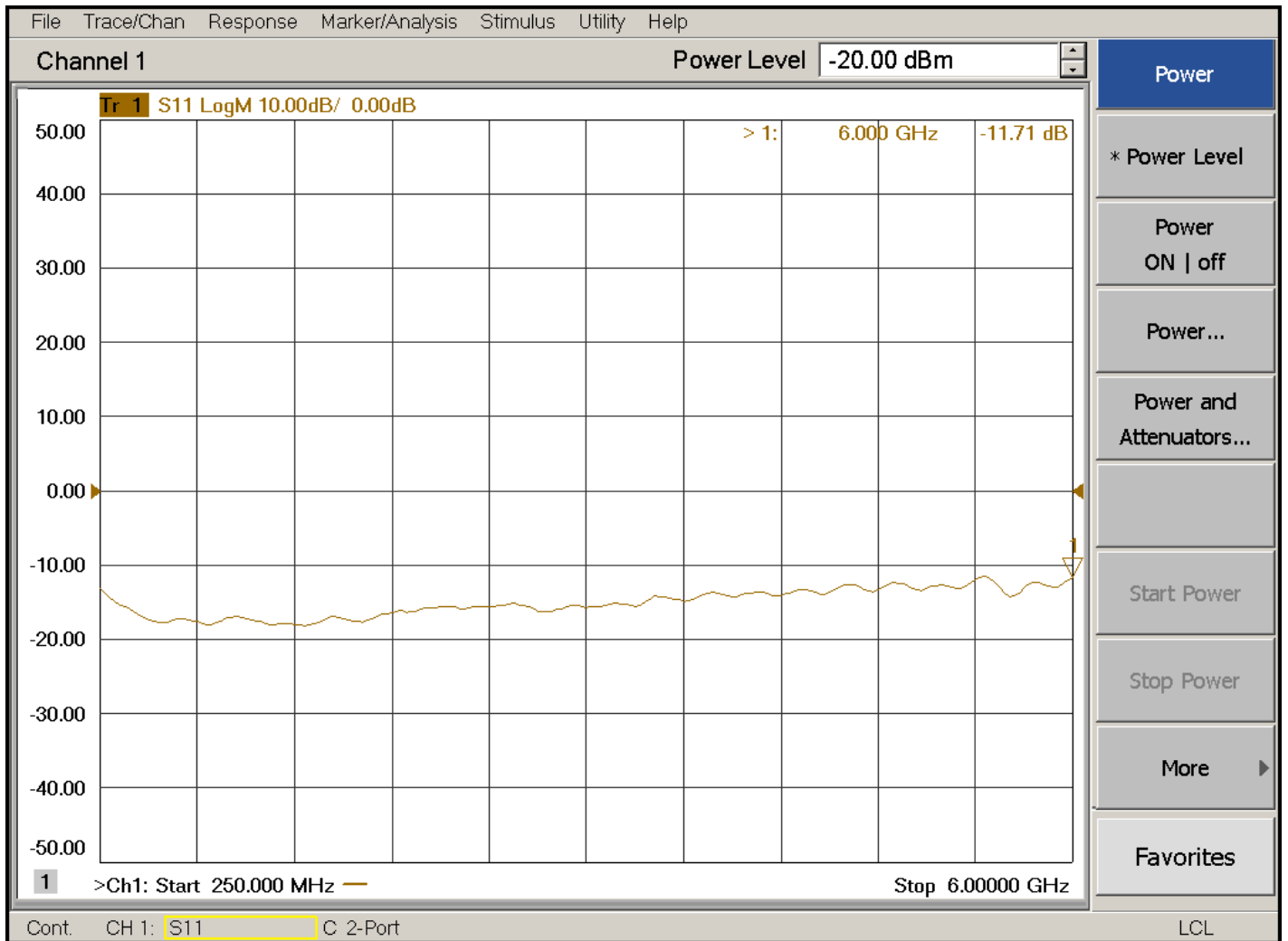


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**SUMMARY TEST DATA
ON
SDLVA-500M4G-CD-2**

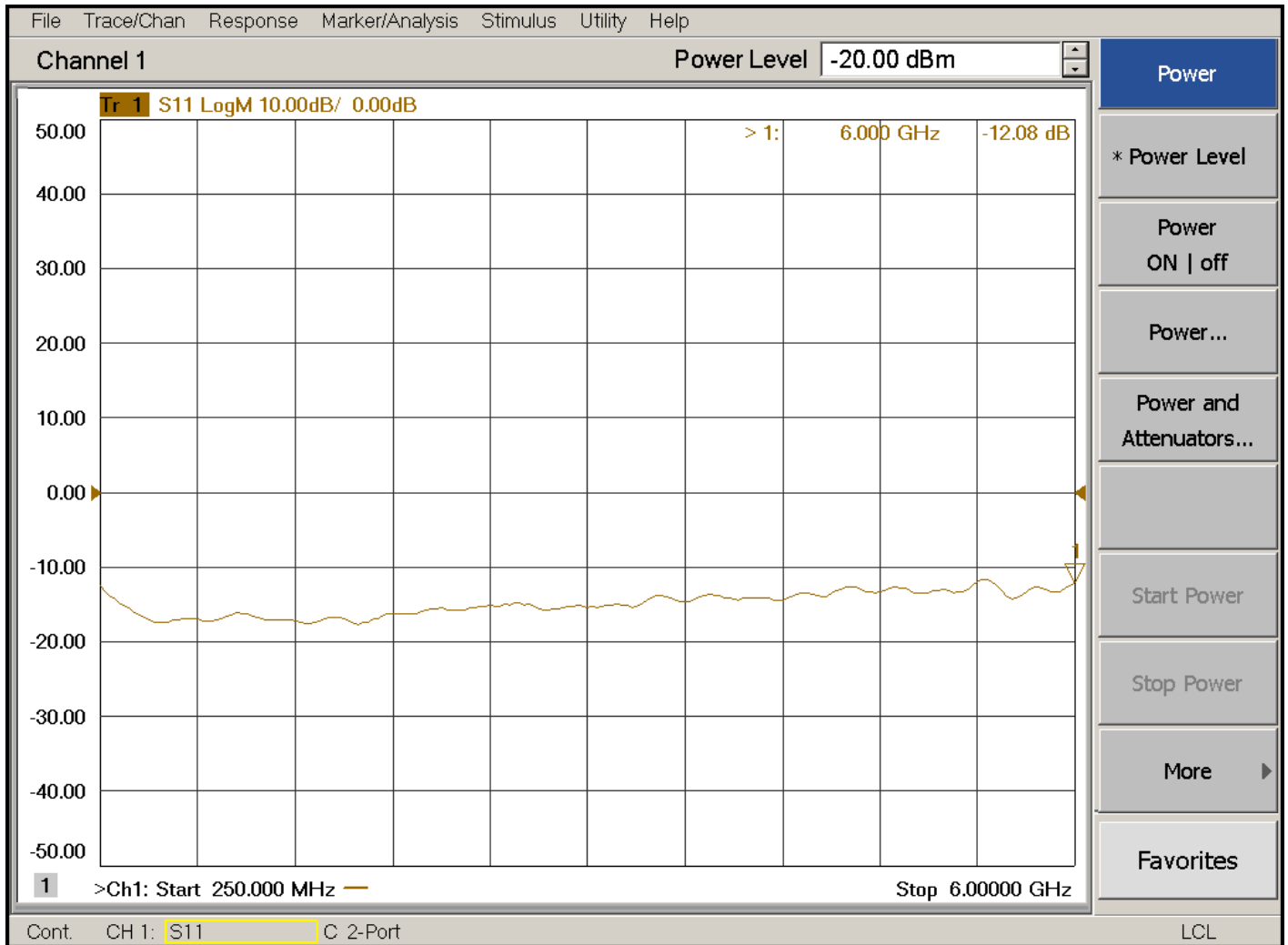
Return Loss @ 25°C





**SUMMARY TEST DATA
ON
SDLVA-500M4G-CD-2**

Return Loss @ -40°C





**SUMMARY TEST DATA
ON
SDLVA-500M4G-CD-2**

Return Loss @ 75°C

