



SUMMARY TEST DATA ON GMDA-D1004-YK-HERM

Customer: _____
 SO: _____
 Model No: GMDA-D1004-YK-HERM
 Serial No: PL58609/2611

Tested By: Anton L.
 Date: Thursday, March 12, 2026
 Temp: +25°C, -54°C, +85°C
 Drawing No: 27652540 Rev: A1

Test Item No.	Parameters	Specified Value	Measured Value			QA QC
			-54°C	+25°C	+85°C	
1	Frequency Range:	2.0 TO 18.0 GHz	2.0 TO 18.0 GHz			PMI QA5
2	Logging Range:	-60 dBm TO +7 dBm	-60 dBm TO +7 dBm			
3	TSS:	-70 dBm MIN.	-70.3 dBm	-71.4 dBm	-70.2 dBm	
4	Logging Slope:	+25.0 ± 1.0 mV/dB @ +25°C +25.0 ± 2.0 mV/dB @ -54°C to +85°C	25.6 mV/dB	25.1 mV/dB	25.7 mV/dB	
5	Logging Linearity	+1.5 dB @ +25°C +2.0 dB @ -54°C to +85°C	1.02 dB	0.86 dB	1.17 dB	
6	Flatness:	100 mV MAX.	95 mV	57 mV	51 mV	
7	RF Safe Input Power:	+23 dBm MAX. CW	+23 dBm MAX. CW			
8	MAX. Output Voltage:	+2.5 V MAX.	+1.97 V	+1.95 V	+1.96 V	
9	Input VSWR:	2.3:1 MAX.	1.61:1	1.59:1	1.57:1	
10	Video Load Impedance:	75 Ω TYP.	75.01 Ω			
11	Rise Time:	30 ns MAX.	27.7 ns	27.8 ns	29.0 ns	
12	Recovery Time:	100 ns MAX.	56.7 ns	59.8 ns	58.7 ns	
13	Throughput Time:	30 ns MAX.	8.3 ns	9.8 ns	10.6 ns	
14	Video Bandwidth:	10 MHz TYP.	16.5 MHz	16.6 MHz	15.5 MHz	

7309-A Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731

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ON
GMDA-D1004-YK-HERM**

PL58609/2611

Test Item No.	Parameters	Specified Value	Measured Value			QA QC
			-54°C	+25°C	+85°C	
15	Offset Voltage:	± 50 mV MAX.	22 mV	5 mV	-2 mV	PMI QAS
16	Leading and Trailing Edge:	No overshoot	Pass	Pass	Pass	PMI QAS
17	Reverse Shoot and Slope Reverse:	No reverse shoot No slope reverse	Pass	Pass	Pass	
18	DC Power Supply:	+12 to +15.5 VDC @ 400 mA MAX. -12 to -15.5 VDC @ 165 mA MAX.	+15 VDC @ 385 mA -15 VDC @ 120 mA			PMI QAS

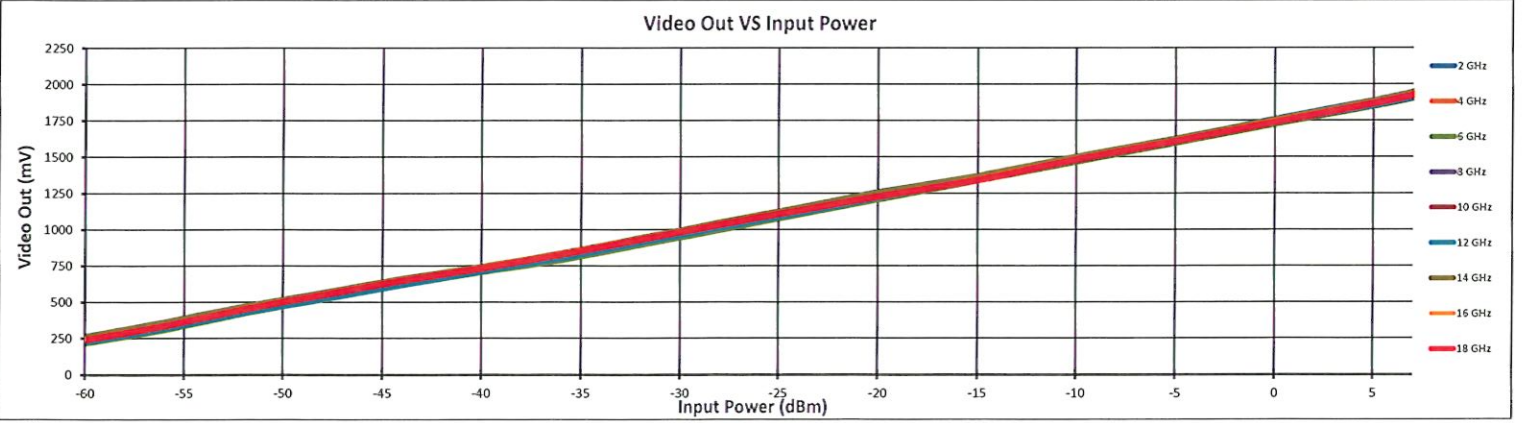
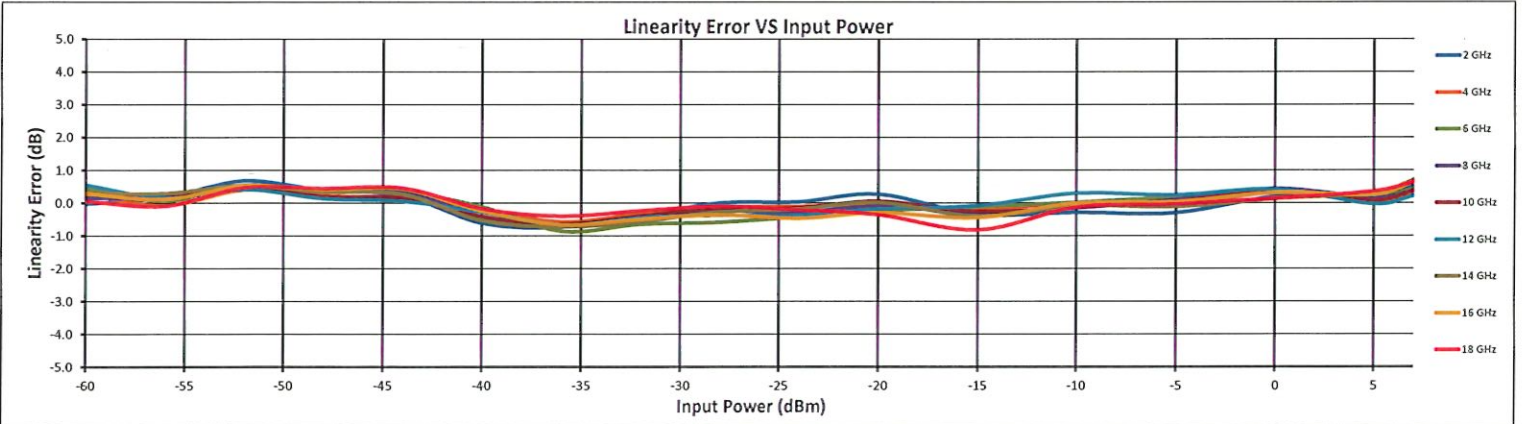
QA/QC Approval: Jordan Meyers

Date: 3-19-26

Log Transfer Over Frequency +25°C

Video offset: 5 mV

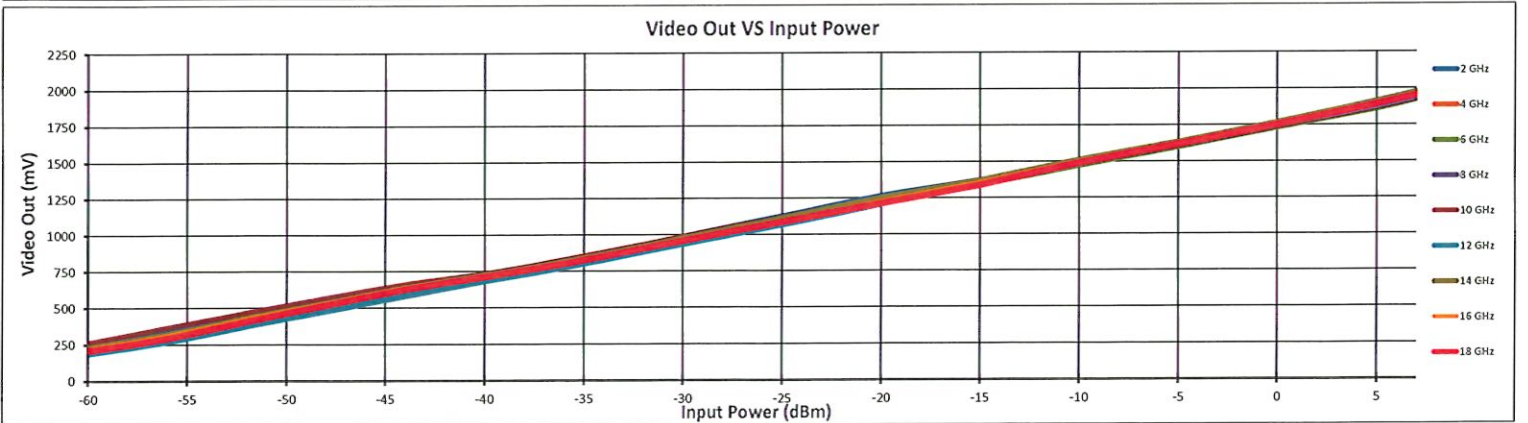
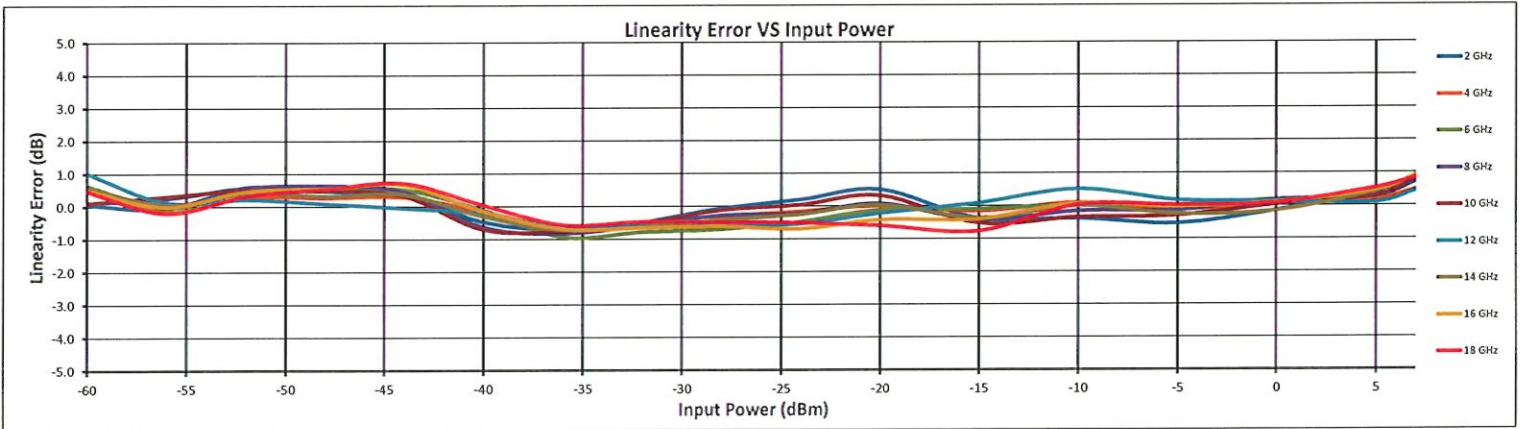
Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	LIN. ERR. (dB)	-60	-56	-52	-48	-44	-40	-36	-32	-28	-24	-20	-15	-10	-5	0	5	7	RF Input Power (dBm)	
2 GHz	1758	25.3	0.7	240	346	460	554	651	731	829	939	1050	1152	1259	1370	1498	1624	1763	1891	1948	Measured Value (mV)	
				-1	4	17	10	6	-15	-19	-10	0	1	7	-9	-7	-8	5	6	13	ERROR (mV)	
				-0.02	0.17	0.67	0.39	0.23	-0.61	-0.74	-0.39	0.00	0.03	0.26	-0.35	-0.29	-0.31	0.19	0.25	0.50	LINEARITY ERROR (dB)	
4 GHz	1735	25.4	0.6	216	309	423	520	620	713	805	913	1020	1122	1225	1349	1481	1607	1743	1864	1919	Measured Value (mV)	
				7	-2	10	6	4	-5	-16	-8	-3	-3	-1	-5	0	-1	8	2	6	ERROR (mV)	
				0.27	-0.08	0.41	0.22	0.15	-0.19	-0.57	-0.33	-0.12	-0.11	-0.06	-0.18	0.01	-0.04	0.31	0.07	0.23	LINEARITY ERROR (dB)	
6 GHz	1712	25.2	0.9	214	305	417	515	614	703	785	891	993	1098	1203	1332	1461	1591	1722	1843	1899	Measured Value (mV)	
				11	2	13	10	9	-3	-22	-16	-15	-10	-5	-3	0	5	10	5	11	ERROR (mV)	
				0.45	0.06	0.52	0.41	0.35	-0.12	-0.86	-0.64	-0.59	-0.42	-0.24	-0.11	0.01	0.18	0.39	0.20	0.42	LINEARITY ERROR (dB)	
8 GHz	1722	24.5	0.7	253	352	459	554	651	730	821	925	1029	1126	1229	1347	1473	1602	1733	1849	1903	Measured Value (mV)	
				4	4	18	10	9	-10	-18	-12	-5	-7	-2	-7	-4	2	11	4	9	ERROR (mV)	
				0.15	0.18	0.54	0.41	0.36	-0.42	-0.72	-0.48	-0.24	-0.29	-0.10	-0.29	-0.16	0.10	0.44	0.16	0.36	LINEARITY ERROR (dB)	
10 GHz	1723	24.7	0.6	246	341	448	540	638	723	816	921	1026	1125	1229	1345	1472	1600	1731	1848	1905	Measured Value (mV)	
				8	4	12	5	4	-10	-16	-10	-4	-4	1	-7	-3	1	8	2	9	ERROR (mV)	
				0.31	0.15	0.48	0.19	0.16	-0.41	-0.65	-0.40	-0.16	-0.16	0.05	-0.26	-0.13	0.05	0.34	0.07	0.38	LINEARITY ERROR (dB)	
12 GHz	1730	25.3	0.7	227	318	426	520	619	712	803	910	1013	1114	1220	1349	1485	1610	1741	1856	1913	Measured Value (mV)	
				14	4	11	3	1	-7	-17	-11	-9	-10	-5	-2	7	6	11	-1	5	ERROR (mV)	
				0.55	0.15	0.42	0.13	0.05	-0.27	-0.68	-0.44	-0.37	-0.38	-0.19	-0.09	0.29	0.24	0.42	-0.04	0.22	LINEARITY ERROR (dB)	
14 GHz	1751	25.0	0.7	261	360	466	561	659	739	834	938	1045	1147	1252	1366	1499	1623	1754	1883	1943	Measured Value (mV)	
				8	7	13	8	7	-13	-18	-14	-7	-5	0	-10	-2	-3	3	7	17	ERROR (mV)	
				0.32	0.29	0.53	0.34	0.26	-0.53	-0.73	-0.56	-0.27	-0.19	0.02	-0.41	-0.09	-0.12	0.13	0.30	0.70	LINEARITY ERROR (dB)	
16 GHz	1742	25.2	0.7	239	335	446	544	645	729	819	924	1028	1126	1231	1353	1490	1617	1750	1874	1934	Measured Value (mV)	
				7	3	13	10	11	-6	-17	-12	-9	-12	-7	-11	0	1	8	6	16	ERROR (mV)	
				0.29	0.11	0.52	0.41	0.42	-0.24	-0.66	-0.49	-0.36	-0.47	-0.30	-0.45	-0.01	0.04	0.32	0.25	0.63	LINEARITY ERROR (dB)	
18 GHz	1734	24.9	0.8	239	335	449	548	648	732	826	930	1033	1130	1228	1339	1481	1608	1737	1867	1924	Measured Value (mV)	
				1	-2	12	11	11	-4	-10	-6	-2	-5	-9	-21	-3	-1	3	9	16	ERROR (mV)	
				0.05	-0.10	0.48	0.45	0.46	-0.17	-0.40	-0.23	-0.10	-0.21	-0.36	-0.83	-0.13	-0.04	0.14	0.35	0.64	LINEARITY ERROR (dB)	
Avg. Slope: 25.1 mV/dB				0.9	1.1	1	0.9	0.9	0.7	1	1	1.1	1.1	1.1	1.1	0.8	0.8	0.7	0.8	1	1	Flatness dB: ±1.1 dB



Log Transfer Over Frequency -54°C

Video offset: 22 mV

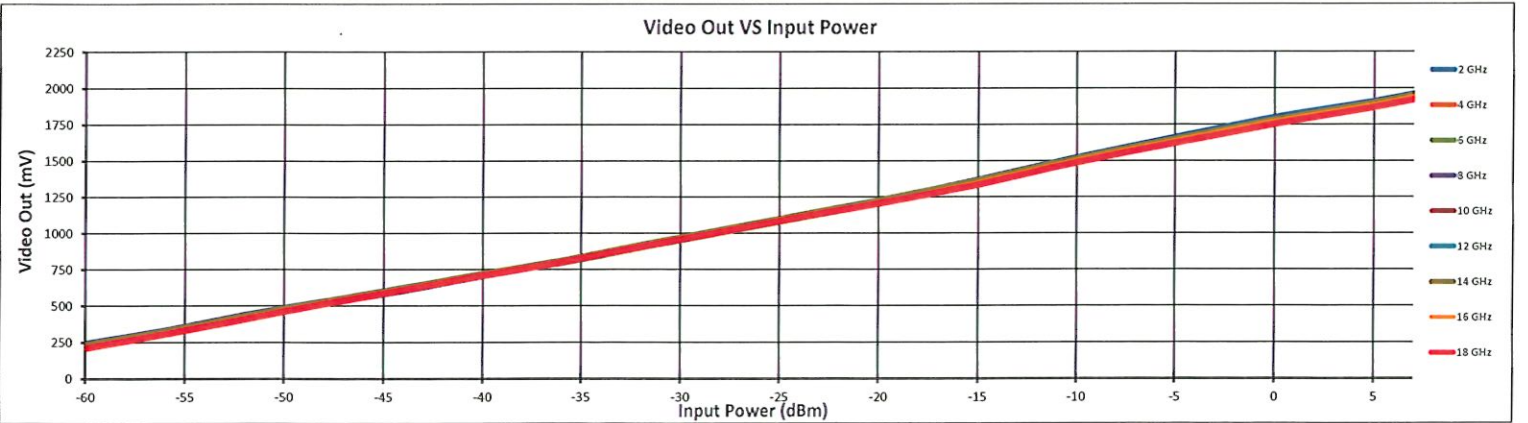
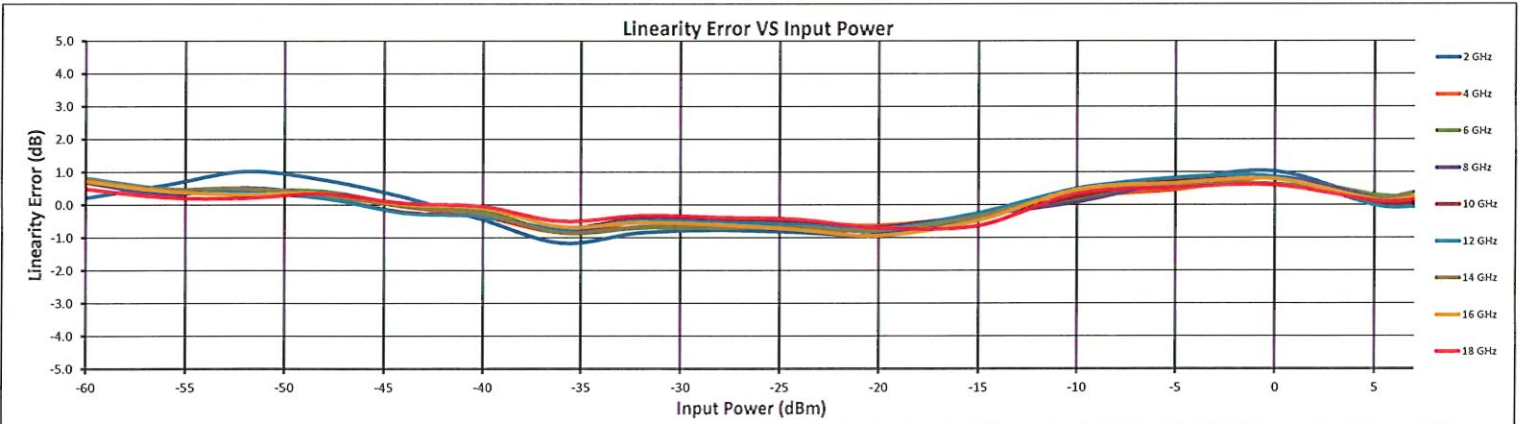
Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	LIN. ERR. (dB)	-60	-56	-52	-48	-44	-40	-36	-32	-28	-24	-20	-15	-10	-5	0	5	7	RF Input Power (dBm)	Measured Value (mV)	ERROR (mV)	LINEARITY ERROR (dB)
2 GHz	1770	25.8	0.8	224	324	444	544	644	726	823	932	1046	1156	1267	1373	1502	1627	1766	1909	1970	Measured Value (mV)			
				1	-2	15	12	9	-12	-18	-13	-2	5	13	-10	-10	-14	-3	10	29	ERROR (mV)			
				0.96	-0.07	0.59	0.46	0.34	-0.48	-0.72	-0.49	-0.07	0.20	0.50	-0.39	-0.39	-0.54	-0.15	0.39	0.76	LINEARITY ERROR (dB)			
4 GHz	1747	25.9	0.6	207	293	408	511	615	707	798	906	1014	1121	1229	1354	1490	1614	1748	1881	1940	Measured Value (mV)			
				14	-4	7	7	7	-4	-17	-12	-5	-4	0	-4	2	-3	1	5	12	ERROR (mV)			
				0.52	-0.15	0.29	0.27	0.29	-0.16	-0.64	-0.47	-0.30	-0.17	0.01	-0.17	0.09	-0.12	0.06	0.19	0.47	LINEARITY ERROR (dB)			
6 GHz	1721	25.5	0.9	207	292	406	509	612	698	779	885	989	1097	1208	1336	1467	1594	1726	1856	1918	Measured Value (mV)			
				16	-1	11	12	13	-3	-24	-20	-18	-12	-3	-3	1	0	5	7	18	ERROR (mV)			
				0.64	-0.03	0.44	0.48	0.51	-0.12	-0.94	-0.78	-0.71	-0.47	-0.12	-0.10	0.03	0.01	0.18	0.28	0.71	LINEARITY ERROR (dB)			
8 GHz	1736	24.7	0.8	258	360	467	567	661	733	827	932	1038	1138	1244	1355	1485	1609	1740	1866	1927	Measured Value (mV)			
				3	6	14	16	11	-18	-20	-14	-7	-5	2	-11	-4	-3	4	7	18	ERROR (mV)			
				0.11	0.25	0.58	0.64	0.44	-0.64	-0.83	-0.57	-0.28	-0.23	0.07	-0.43	-0.16	-0.14	0.17	0.27	0.75	LINEARITY ERROR (dB)			
10 GHz	1733	24.5	0.9	263	366	469	567	661	734	831	935	1043	1145	1250	1352	1479	1603	1734	1863	1926	Measured Value (mV)			
				3	8	12	12	8	-17	-18	-13	-3	1	8	-13	-9	-7	1	7	21	ERROR (mV)			
				0.11	0.31	0.50	0.49	0.32	-0.70	-0.75	-0.51	-0.12	0.04	0.32	-0.53	-0.35	-0.30	0.03	0.29	0.85	LINEARITY ERROR (dB)			
12 GHz	1746	26.4	1.0	189	271	379	481	583	684	778	886	991	1098	1212	1352	1495	1618	1749	1880	1942	Measured Value (mV)			
				27	3	6	2	-1	-6	-18	-15	-16	-14	-6	2	13	4	3	2	12	ERROR (mV)			
				1.02	0.13	0.22	0.08	-0.05	-0.22	-0.66	-0.57	-0.59	-0.54	-0.22	0.09	0.50	0.16	0.13	0.09	0.44	LINEARITY ERROR (dB)			
14 GHz	1764	25.9	0.9	225	316	428	529	634	720	813	919	1028	1136	1247	1366	1505	1628	1760	1905	1969	Measured Value (mV)			
				15	1	11	8	10	-5	-19	-18	-11	-5	1	-10	0	-7	-4	11	24	ERROR (mV)			
				0.58	0.05	0.42	0.32	0.37	-0.31	-0.72	-0.63	-0.42	-0.25	0.04	-0.37	0.00	-0.26	-0.16	0.44	0.91	LINEARITY ERROR (dB)			
16 GHz	1754	25.7	0.9	222	312	427	532	638	720	809	913	1017	1118	1228	1357	1498	1624	1756	1894	1957	Measured Value (mV)			
				13	0	12	14	17	-4	-18	-17	-16	-18	-11	-10	2	-1	2	12	23	ERROR (mV)			
				0.50	-0.01	0.46	0.54	0.66	-0.15	-0.70	-0.66	-0.62	-0.69	-0.42	-0.41	0.07	-0.03	0.09	0.45	0.90	LINEARITY ERROR (dB)			
18 GHz	1746	25.9	0.8	206	292	409	518	626	712	800	906	1009	1112	1213	1338	1488	1617	1748	1889	1949	Measured Value (mV)			
				12	-5	8	14	18	1	-16	-12	-13	-13	-18	-20	1	0	2	14	22	ERROR (mV)			
				0.48	-0.20	0.32	0.54	0.71	0.03	-0.56	-0.47	-0.49	-0.50	-0.60	-0.77	0.03	0.02	0.08	0.53	0.85	LINEARITY ERROR (dB)			
Avg. Slope: 25.6 mV/dB				1.4	1.9	1.8	1.7	1.5	1	1	1	1.1	1.2	1.2	0.7	0.7	0.7	0.8	1	1	Flatness dB: ±1.9 dB			

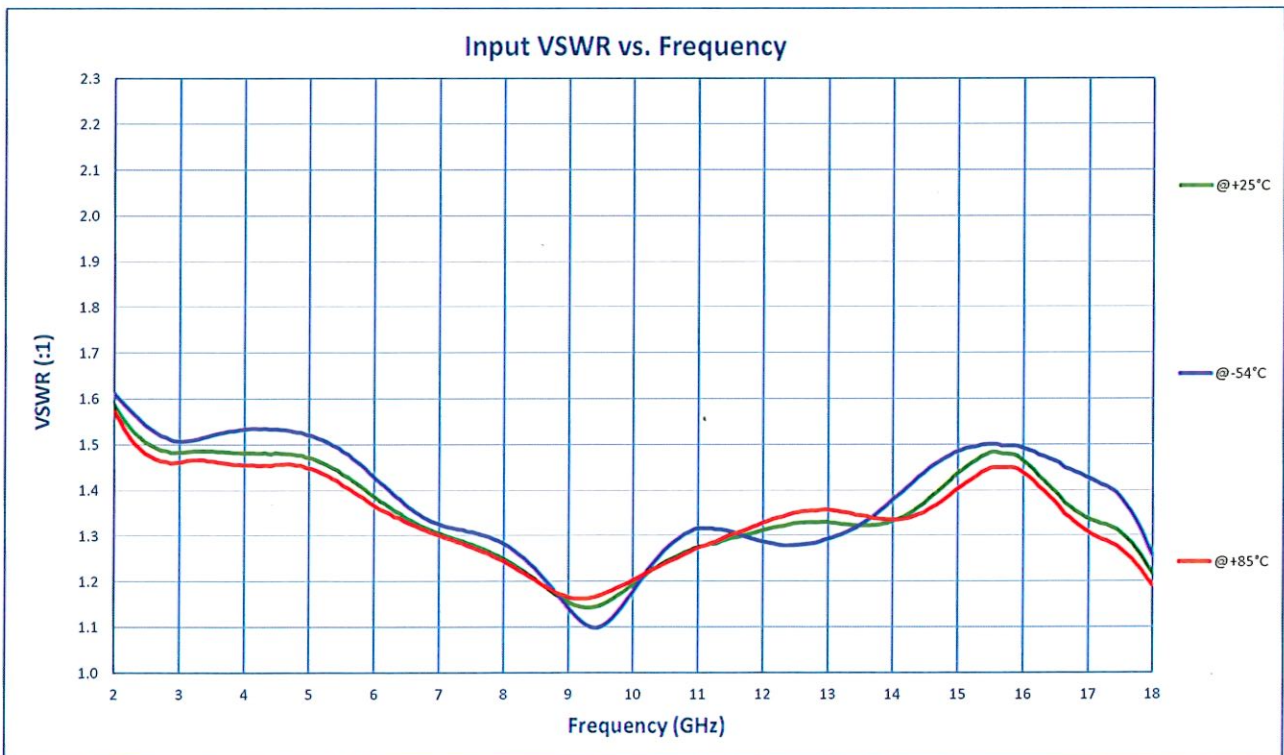
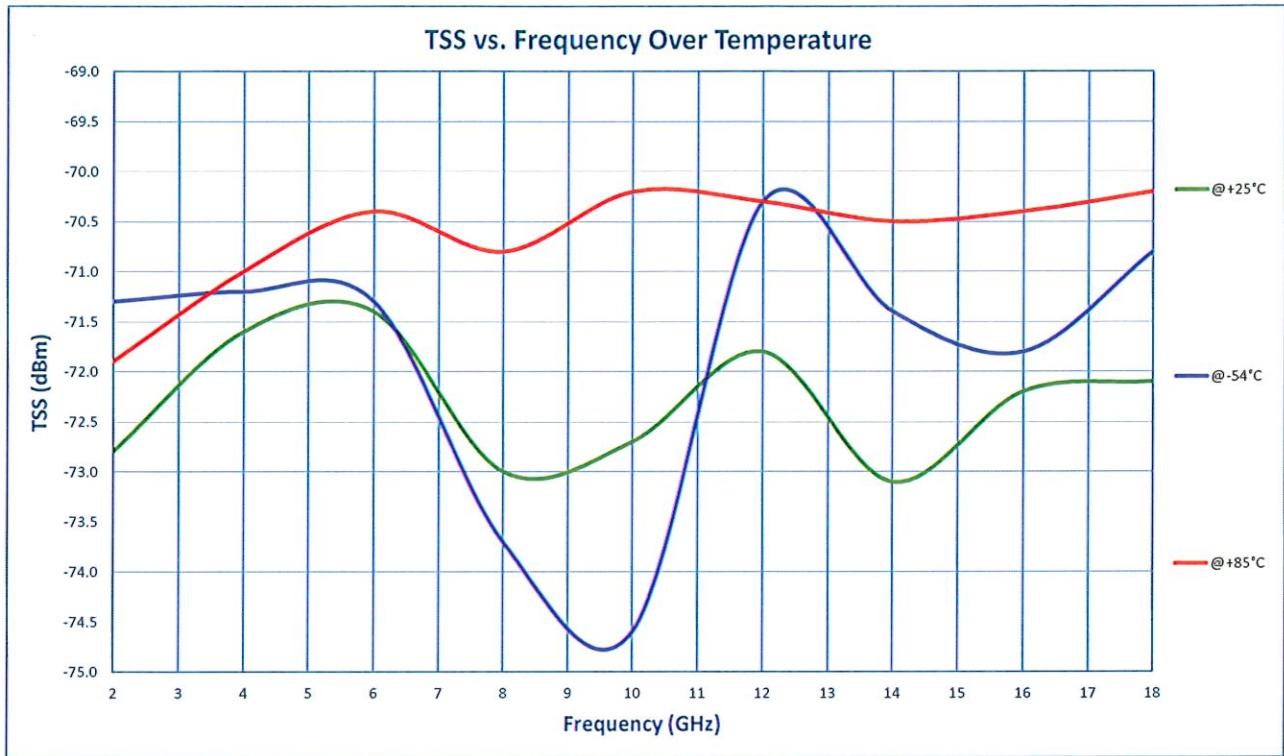


Log Transfer Over Frequency +85°C

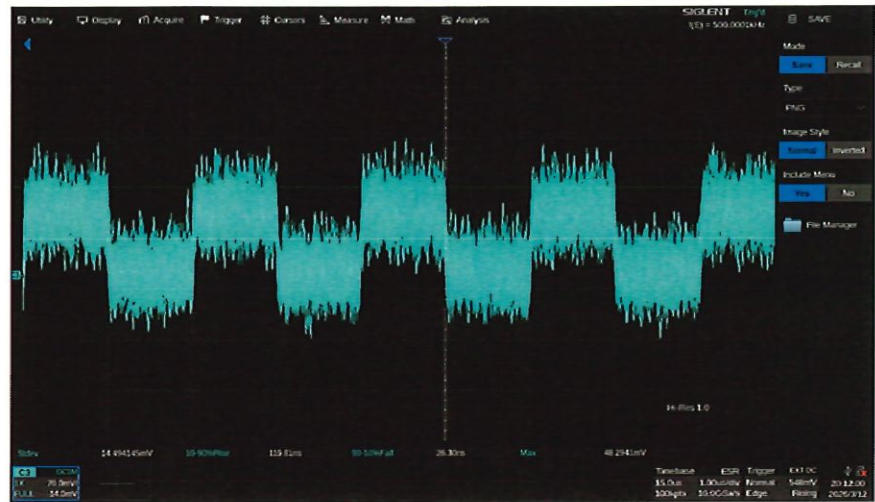
Video offset: -2 mV

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	LIN. ERR. (dB)	-60	-56	-52	-48	-44	-40	-36	-32	-28	-24	-20	-15	-10	-5	0	5	7	RF Input Power (dBm)	Measured Value (mV)	ERROR (mV)	LINEARITY ERROR (dB)
2 GHz	1776	26.2	1.2	208	323	439	537	628	715	801	914	1021	1124	1227	1372	1526	1664	1802	1910	1962				
				5	16	27	20	6	-12	-31	-22	-20	-22	-24	-10	13	20	27	4	3				
				0.21	0.60	1.02	0.76	0.23	-0.45	-1.17	-0.85	-0.77	-0.84	-0.91	-0.38	0.49	0.76	1.02	0.15	0.13				
4 GHz	1753	25.5	0.8	234	328	434	532	625	720	810	921	1026	1126	1225	1361	1503	1637	1774	1886	1935				
				17	9	12	8	-1	-9	-21	-13	-10	-13	-16	-8	6	12	21	5	2				
				0.67	0.35	0.48	0.31	-0.06	-0.35	-0.83	-0.60	-0.40	-0.49	-0.63	-0.32	0.23	0.46	0.81	0.18	0.09				
6 GHz	1731	25.5	0.9	220	314	416	517	609	706	791	897	999	1101	1201	1340	1481	1620	1752	1867	1916				
				20	12	12	10	0	-5	-22	-18	-18	-18	-20	-9	5	16	21	8	6				
				0.77	0.46	0.45	0.41	0.02	-0.18	-0.85	-0.70	-0.70	-0.71	-0.79	-0.34	0.18	0.63	0.80	0.31	0.23				
8 GHz	1738	25.2	0.9	245	336	442	537	630	724	812	920	1019	1118	1217	1352	1488	1629	1759	1859	1915				
				18	8	19	7	0	-7	-20	-12	-14	-16	-17	-3	2	17	21	6	1				
				0.70	0.31	0.52	0.30	-0.01	-0.27	-0.78	-0.49	-0.55	-0.62	-0.68	-0.32	0.08	0.69	0.85	0.22	0.05				
10 GHz	1738	25.6	0.8	222	316	416	514	605	704	797	907	1008	1108	1207	1344	1486	1627	1756	1866	1915				
				20	12	10	6	-6	-9	-18	-11	-12	-14	-17	-9	6	19	20	3	0				
				0.79	0.46	0.38	0.21	-0.23	-0.36	-0.72	-0.42	-0.46	-0.55	-0.68	-0.32	0.24	0.75	0.80	0.10	0.02				
12 GHz	1741	25.7	0.9	223	317	417	515	606	706	799	908	1009	1110	1209	1350	1497	1634	1763	1869	1919				
				21	12	10	6	-5	-9	-19	-12	-14	-16	-19	-6	12	21	22	0	-2				
				0.82	0.48	0.38	0.20	-0.25	-0.35	-0.73	-0.48	-0.54	-0.60	-0.75	-0.25	0.48	0.82	0.85	-0.02	-0.07				
14 GHz	1761	25.8	0.8	232	327	431	529	623	721	809	917	1020	1123	1224	1364	1513	1646	1777	1895	1951				
				21	13	13	8	-1	-7	-22	-17	-17	-18	-20	-9	11	15	16	5	10				
				0.81	0.49	0.51	0.31	-0.05	-0.26	-0.85	-0.67	-0.68	-0.69	-0.78	-0.36	0.41	0.56	0.64	0.21	0.38				
16 GHz	1754	26.0	0.9	215	311	412	517	612	713	802	909	1011	1111	1210	1352	1506	1641	1774	1887	1941				
				19	11	8	9	0	-2	-17	-14	-16	-20	-25	-12	12	17	20	4	6				
				0.72	0.42	0.31	0.36	0.02	-0.09	-0.66	-0.54	-0.61	-0.76	-0.94	-0.47	0.46	0.66	0.79	0.14	0.22				
18 GHz	1736	25.6	0.7	210	306	408	514	609	709	800	907	1008	1109	1205	1335	1488	1621	1751	1867	1919				
				12	6	5	9	1	-1	-13	-8	-10	-11	-18	-16	9	13	16	3	4				
				0.48	0.23	0.21	0.34	0.05	-0.05	-0.50	-0.33	-0.39	-0.45	-0.70	-0.63	0.34	0.53	0.60	0.12	0.15				
Avg. Slope: 25.7 mV/dB				0.7	0.6	0.7	0.4	0.5	0.4	0.5	0.5	0.5	0.5	0.7	0.9	0.9	1	0.9	0.9	Flatness dB: ±1 dB				

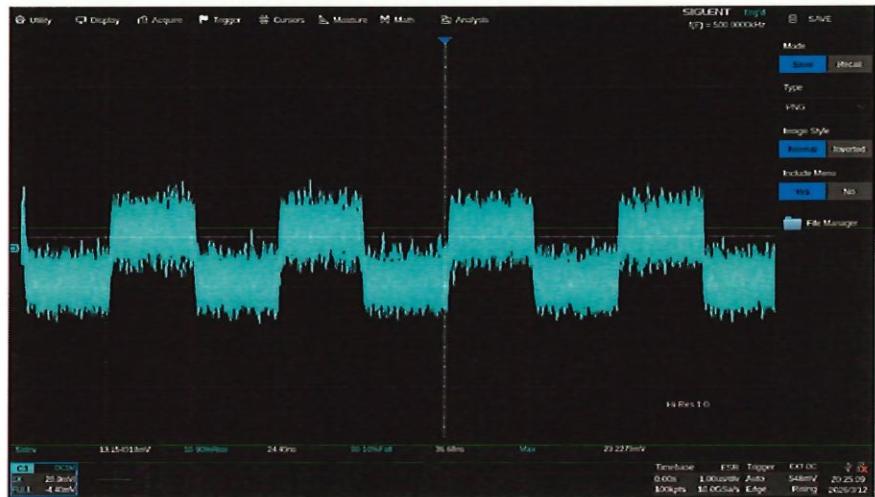




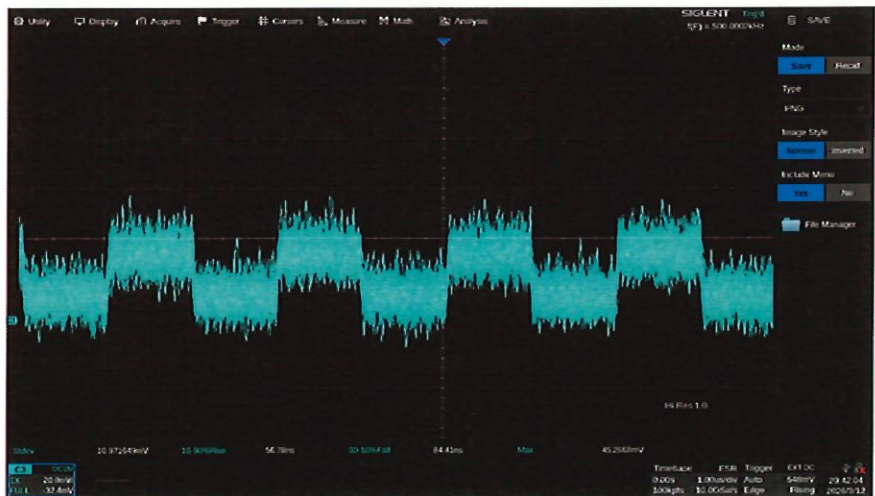
TSS @ -72.7 dBm (+25°C, 10GHz)



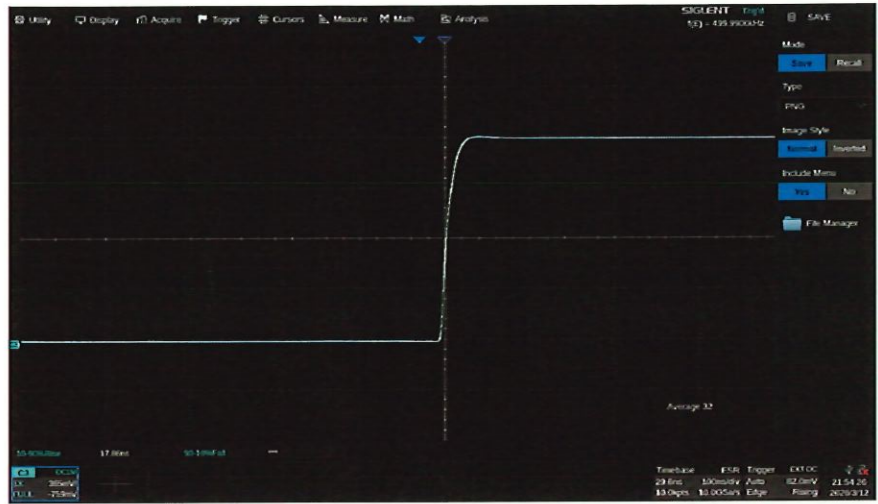
TSS @ -74.6 dBm (-54°C, 10GHz)



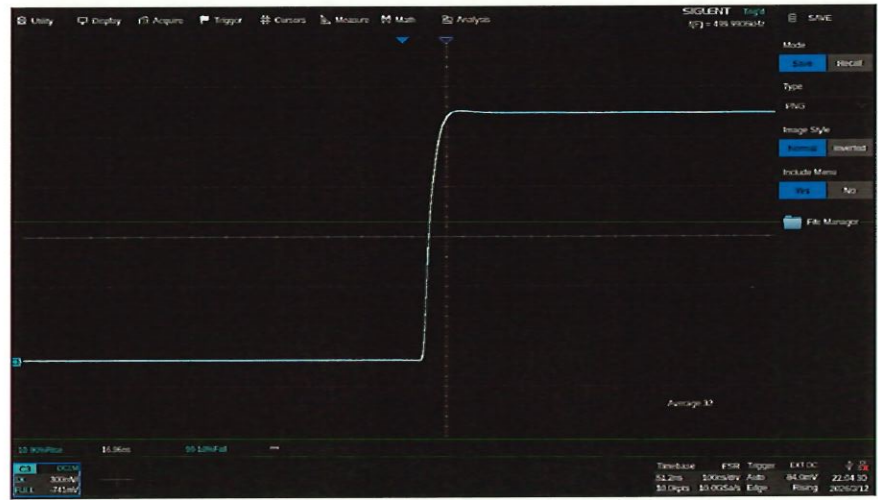
TSS @ -70.2 dBm (+85°C, 10GHz)



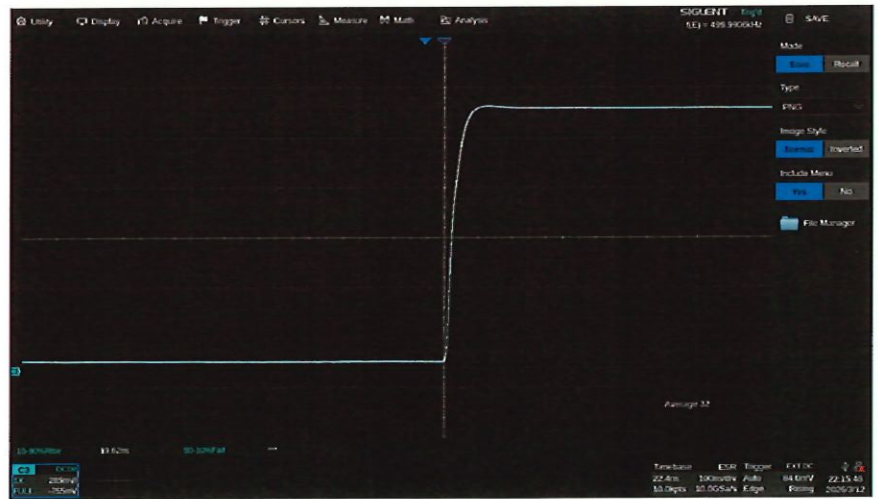
Rise time 17.8 ns
 (+25°C, 10GHz, -10 dBm,
 Pulse width = 1 us,
 Pulse Period = 2 us)



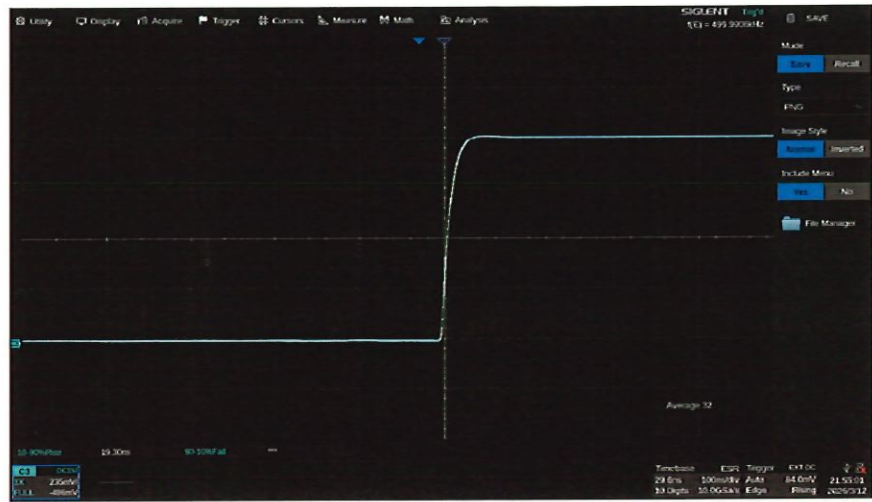
Rise time 16.9 ns
 (-54°C, 10GHz, -10 dBm,
 Pulse width = 1 us,
 Pulse Period = 2 us)



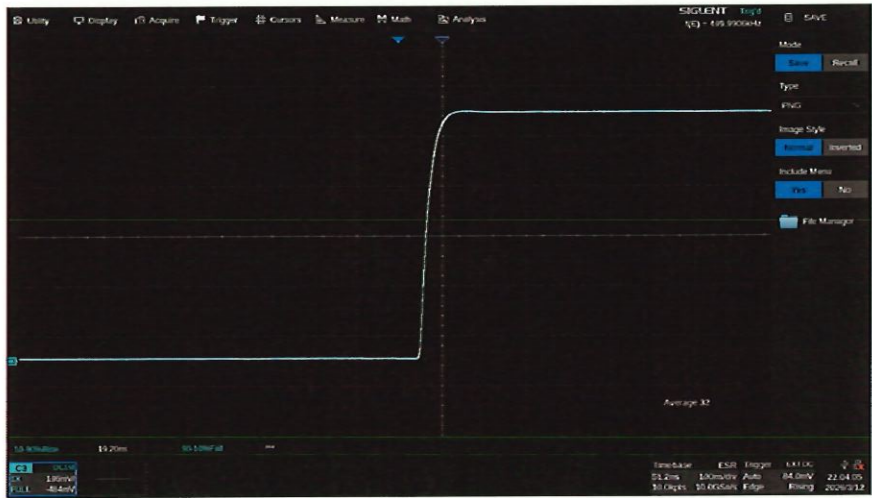
Rise time 19.6 ns
 (+85°C, 10GHz, -10 dBm,
 Pulse width = 1 us,
 Pulse Period = 2 us)



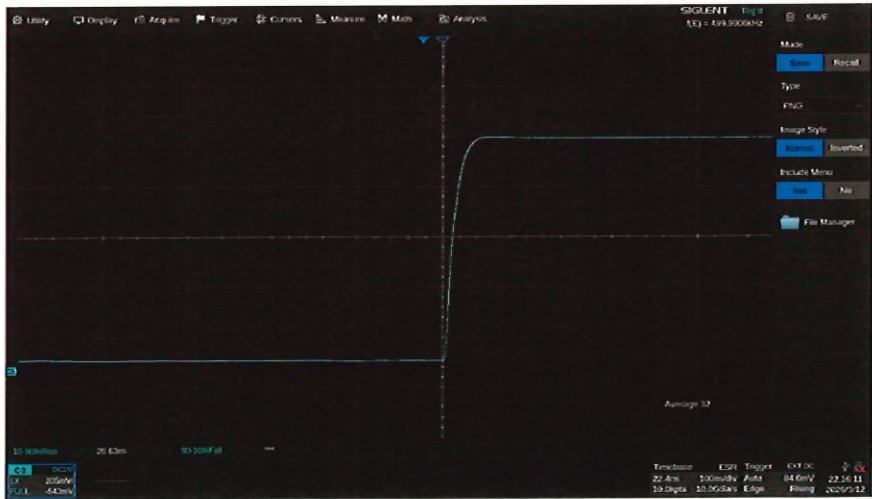
Rise time 19.3 ns
 (+25°C, 10GHz, -30 dBm,
 Pulse width = 1 us,
 Pulse Period = 2 us)



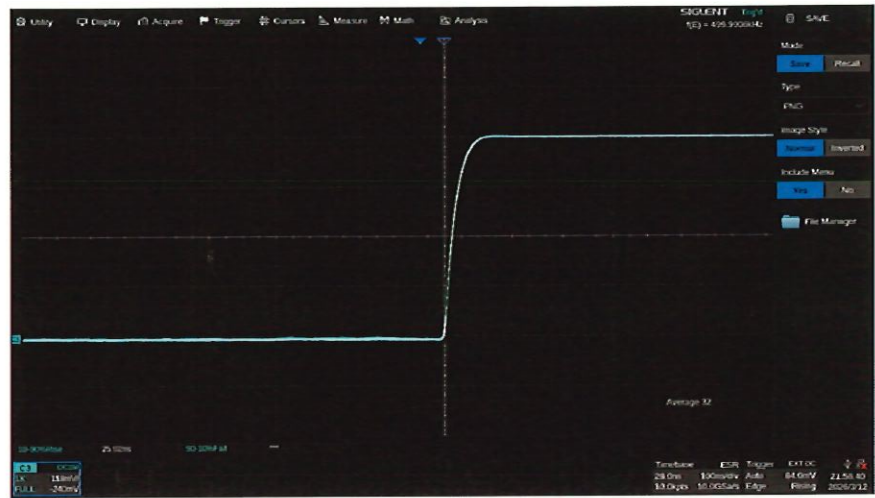
Rise time 19.2 ns
 (-54°C, 10GHz, -30 dBm,
 Pulse width = 1 us,
 Pulse Period = 2 us)



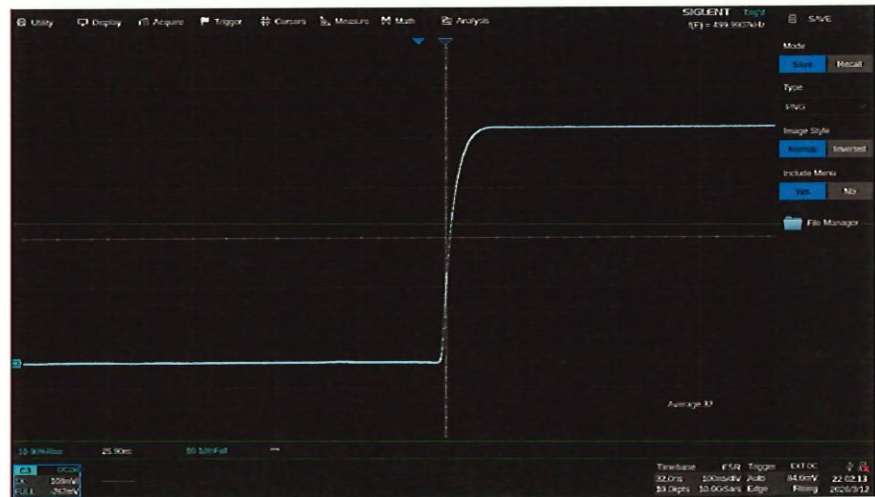
Rise time 20.6 ns
 (+85°C, 10GHz, -30 dBm,
 Pulse width = 1 us,
 Pulse Period = 2 us)



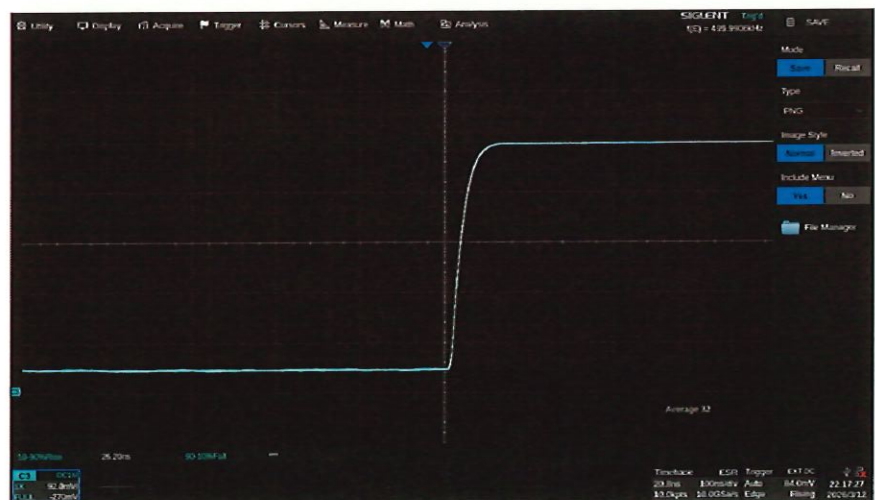
Rise time 25.0 ns
(+25°C, 10GHz, -50 dBm,
Pulse width = 1 us,
Pulse Period = 2 us)



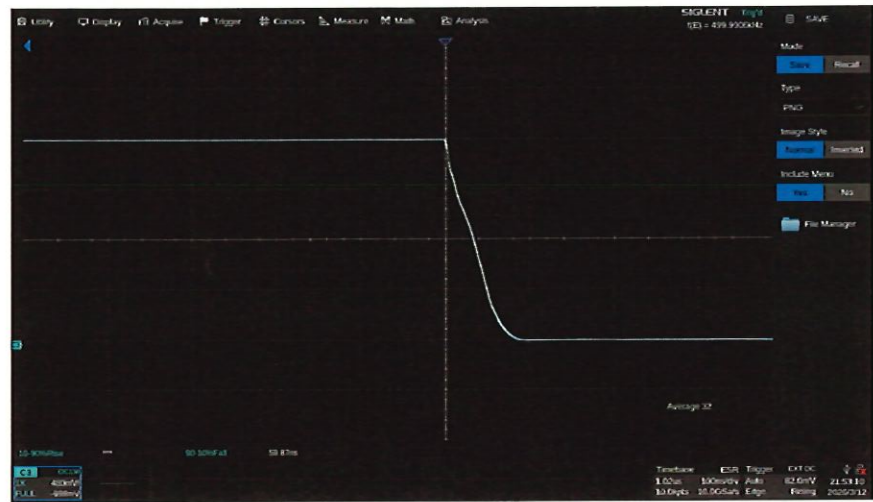
Rise time 25.9 ns
(-54°C, 10GHz, -50 dBm,
Pulse width = 1 us,
Pulse Period = 2 us)



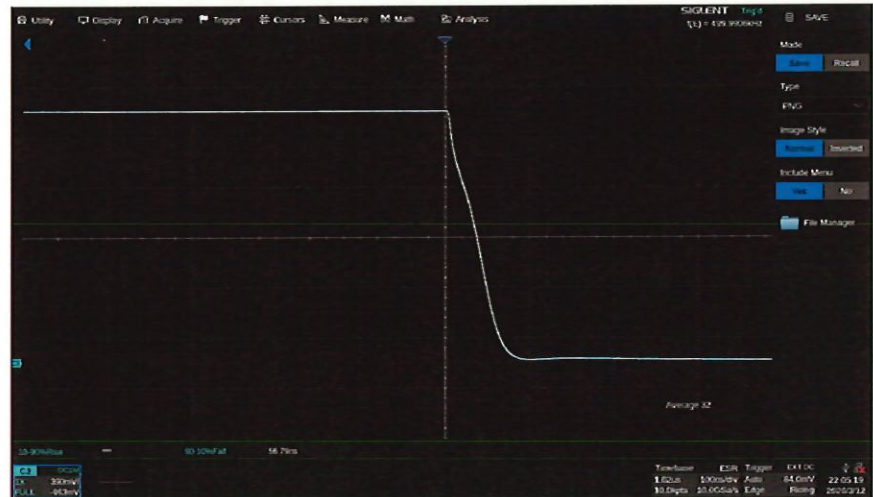
Rise time 26.2 ns
(+85°C, 10GHz, -50 dBm,
Pulse width = 1 us,
Pulse Period = 2 us)



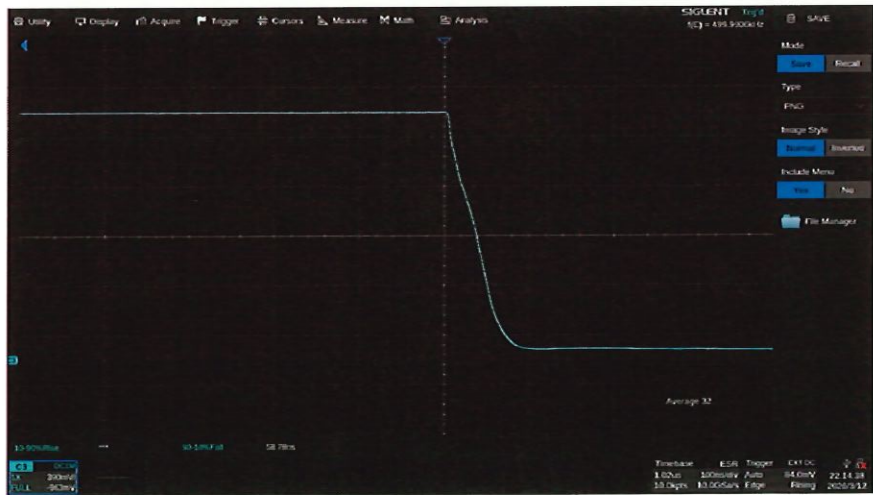
Recovery time 59.8 ns
(+25°C, 10GHz, +7 dBm,
Pulse width = 1 us,
Pulse Period = 2 us)



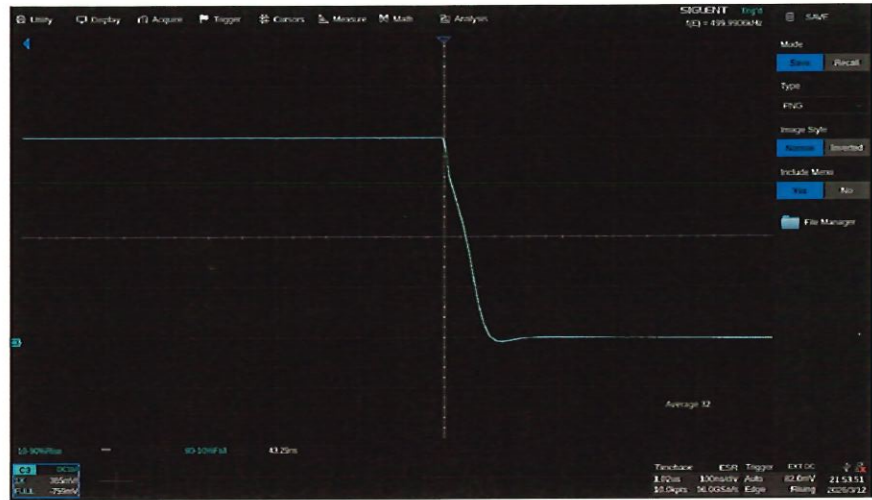
Recovery time 56.7 ns
(-54°C, 10GHz, +7 dBm,
Pulse width = 1 us,
Pulse Period = 2 us)



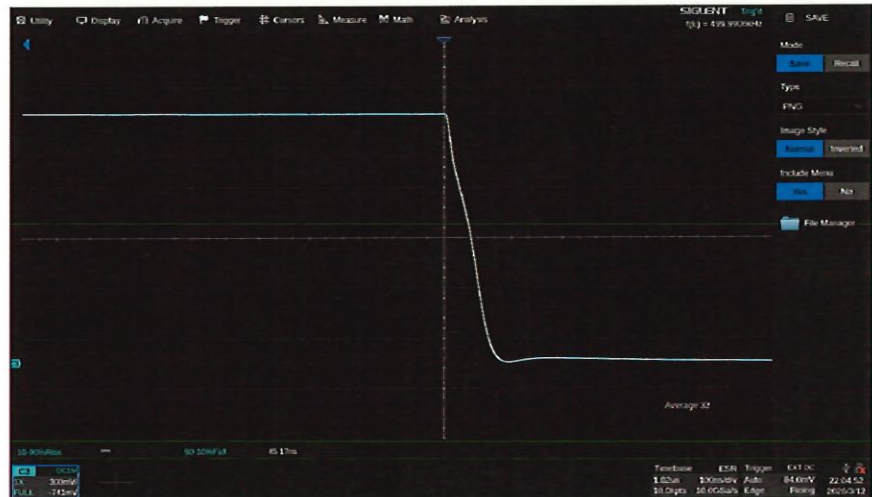
Recovery time 58.7 ns
(+85°C, 10GHz, +7 dBm,
Pulse width = 1 us,
Pulse Period = 2 us)



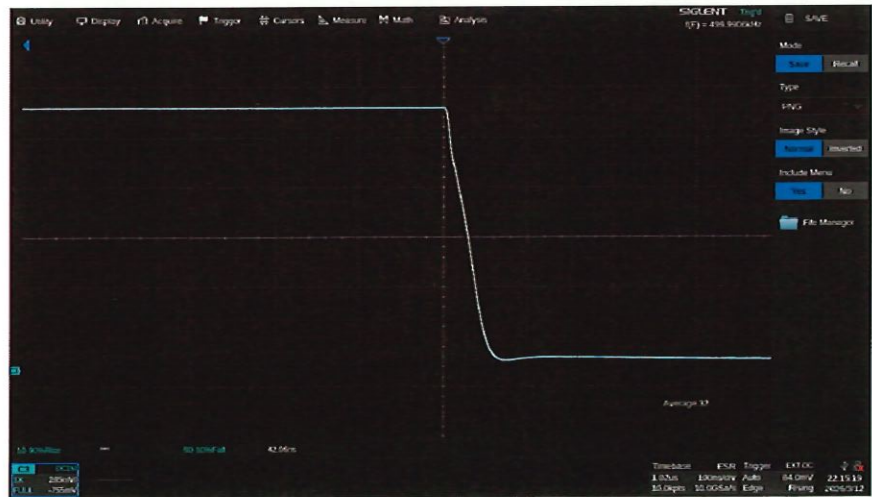
Recovery time 43.2 ns
 (+25°C, 10GHz, -10 dBm,
 Pulse width = 1 us,
 Pulse Period = 2 us)



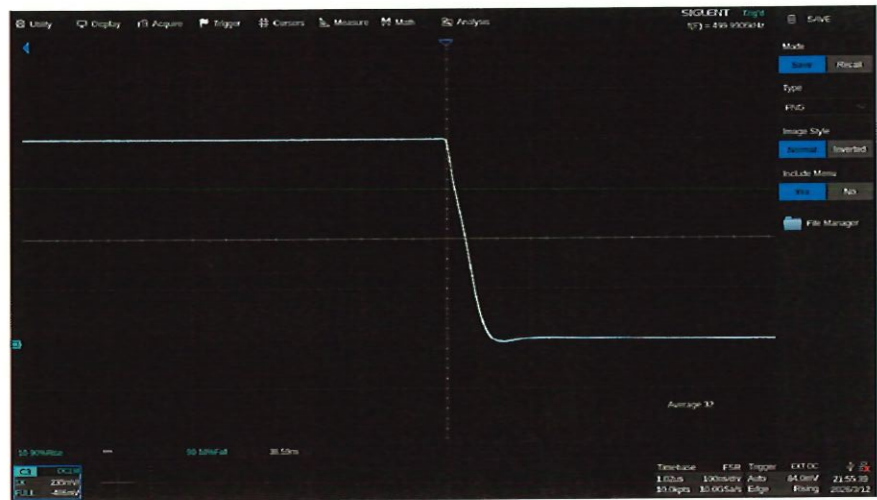
Recovery time 45.1 ns
 (-54°C, 10GHz, -10 dBm,
 Pulse width = 1 us,
 Pulse Period = 2 us)



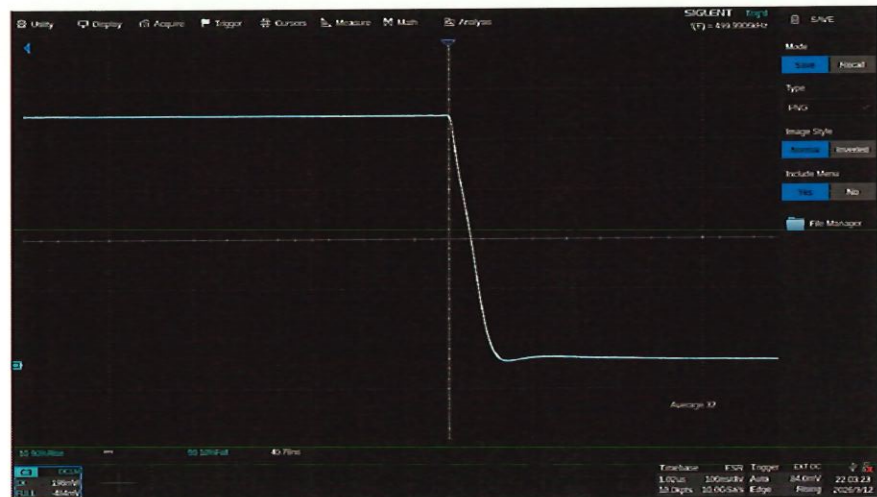
Recovery time 42.0 ns
 (+85°C, 10GHz, -10 dBm,
 Pulse width = 1 us,
 Pulse Period = 2 us)



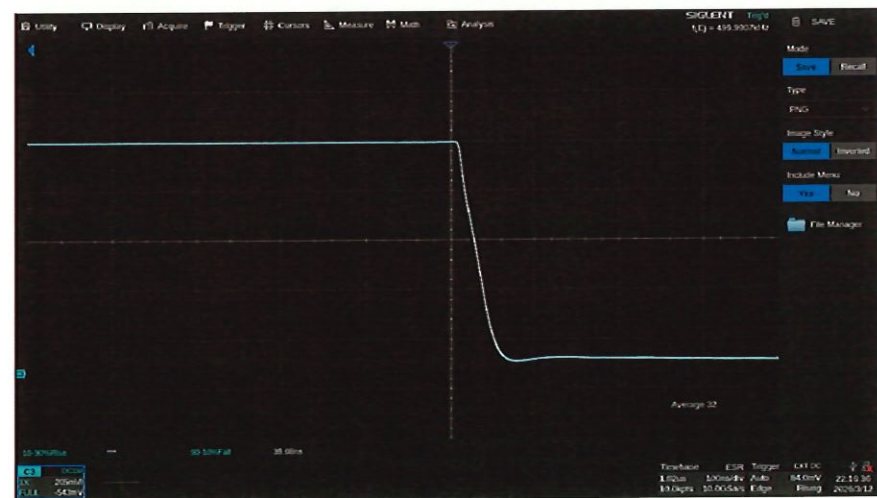
Recovery time 38.5 ns
 (+25°C, 10GHz, -30 dBm,
 Pulse width = 1 us,
 Pulse Period = 2 us)



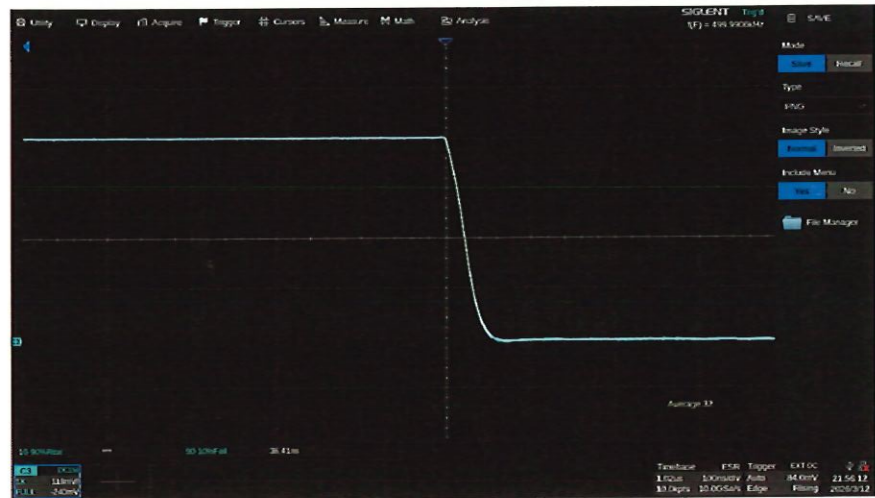
Recovery time 40.7 ns
 (-54°C, 10GHz, -30 dBm,
 Pulse width = 1 us,
 Pulse Period = 2 us)



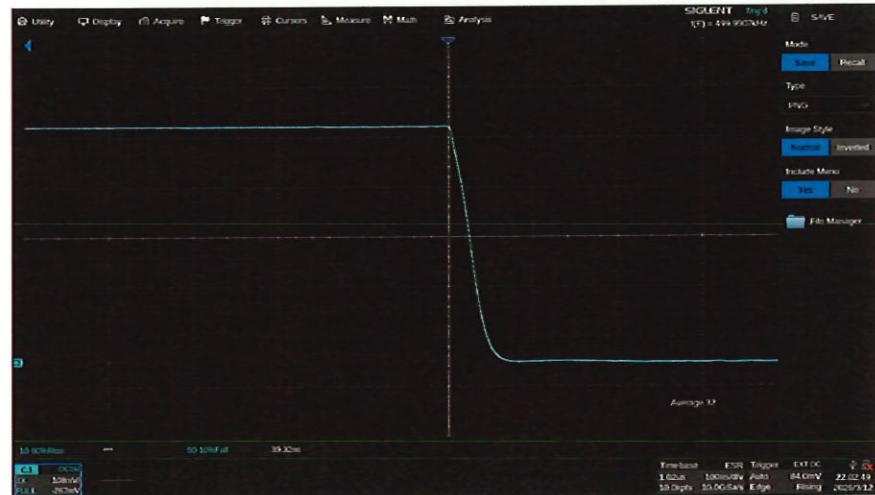
Recovery time 39.0 ns
 (+85°C, 10GHz, -30 dBm,
 Pulse width = 1 us,
 Pulse Period = 2 us)



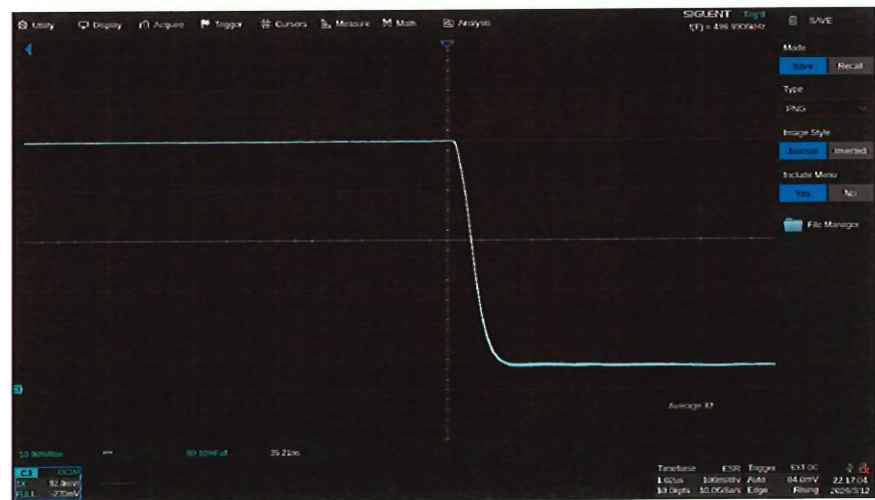
Recovery time 36.4 ns
(+25°C, 10GHz, -50 dBm,
Pulse width = 1 us,
Pulse Period = 2 us)



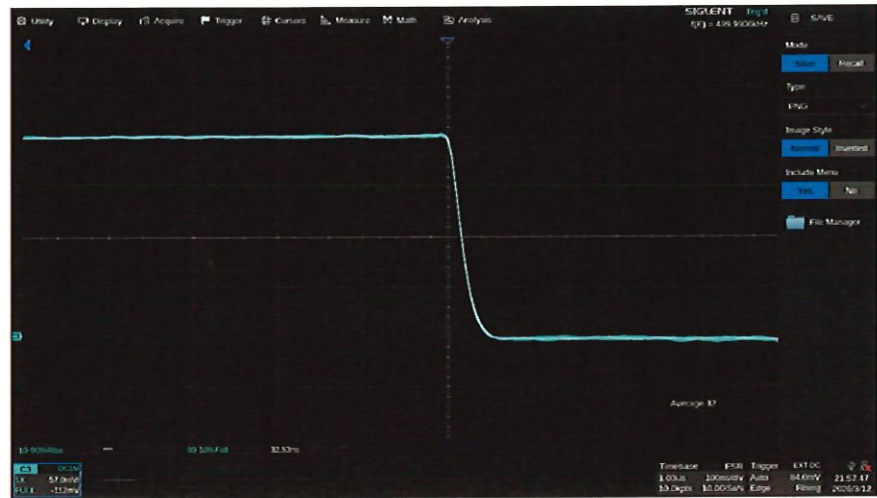
Recovery time 39.3 ns
(-54°C, 10GHz, -50 dBm,
Pulse width = 1 us,
Pulse Period = 2 us)



Recovery time 35.2 ns
(+85°C, 10GHz, -50 dBm,
Pulse width = 1 us,
Pulse Period = 2 us)



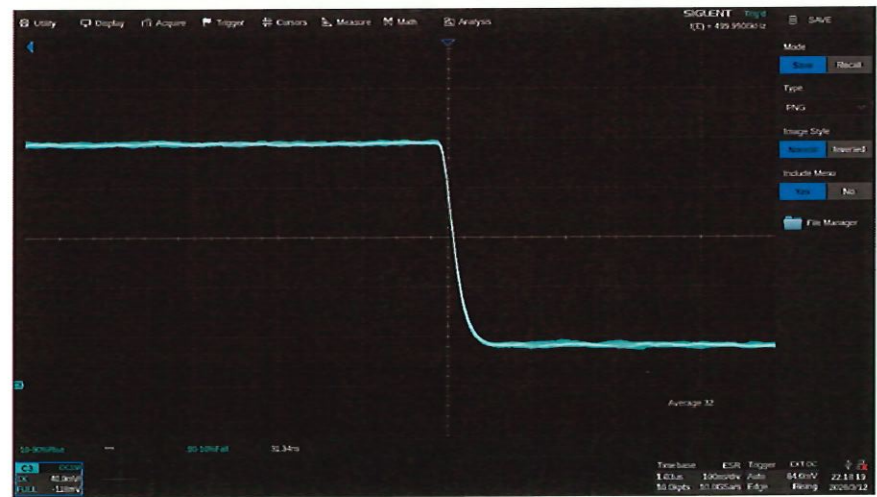
Recovery time 32.5 ns
 (+25°C, 10GHz, -60 dBm,
 Pulse width = 1 us,
 Pulse Period = 2 us)



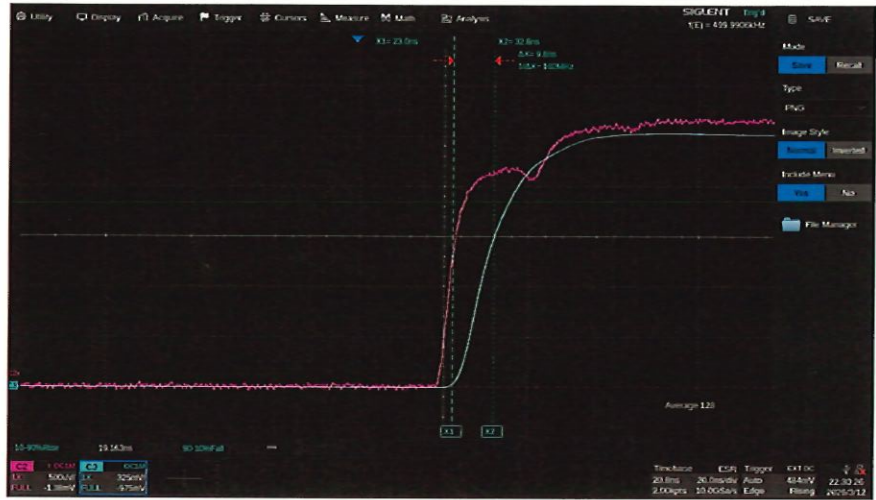
Recovery time 33.1 ns
 (-54°C, 10GHz, -60 dBm,
 Pulse width = 1 us,
 Pulse Period = 2 us)



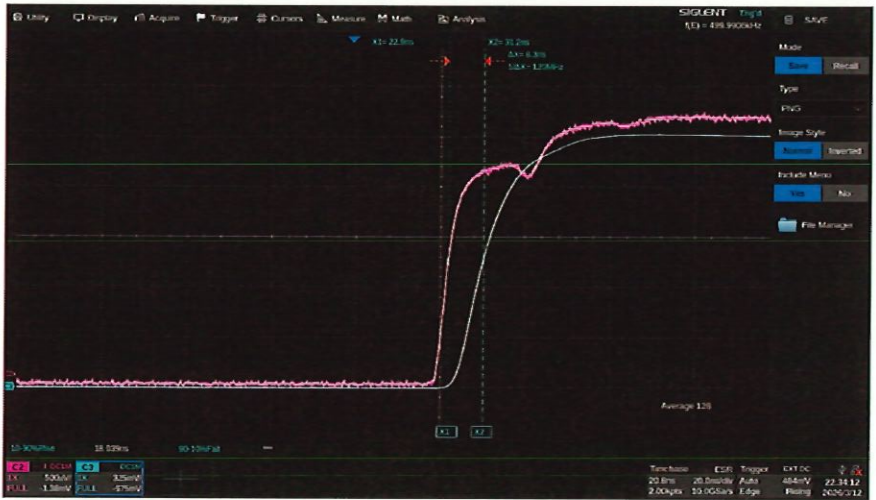
Recovery time 31.3 ns
 (+85°C, 10GHz, -60 dBm,
 Pulse width = 1 us,
 Pulse Period = 2 us)



Throughput time 9.8 ns (+25°C)



Throughput time 8.3 ns (-54°C)



Throughput time 10.6 ns (+85°C)

