NOTE: ① DEV#9/4PG1B/TEMP TEST [redacted] AUG 2000 ①

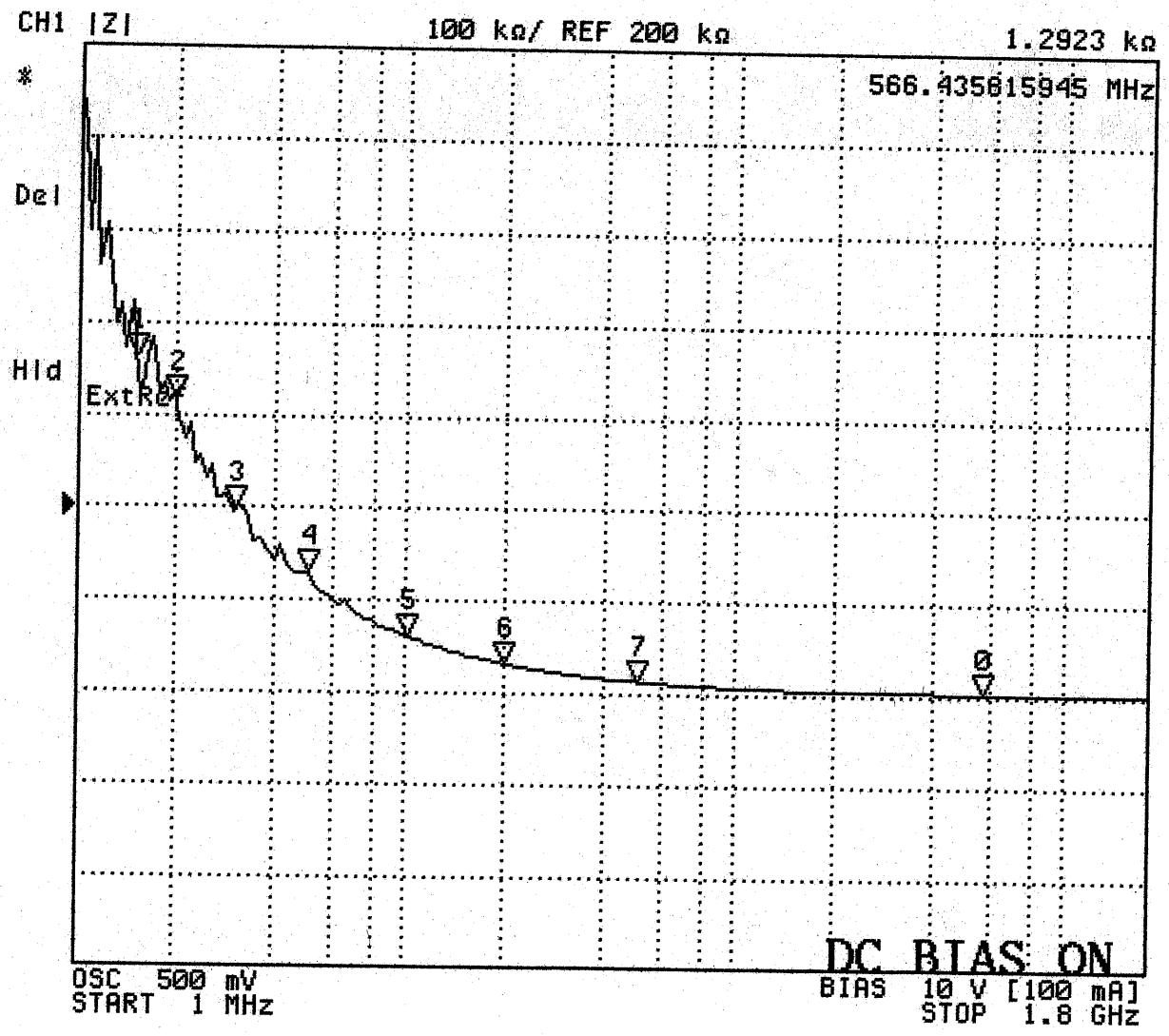
② FILE: 0

③ 10V @ 100mA

④ |Z| @ 566 MHz ≅ 1.29 KΩ

⑤ T ≅ 24°C (ROOM TEMP)

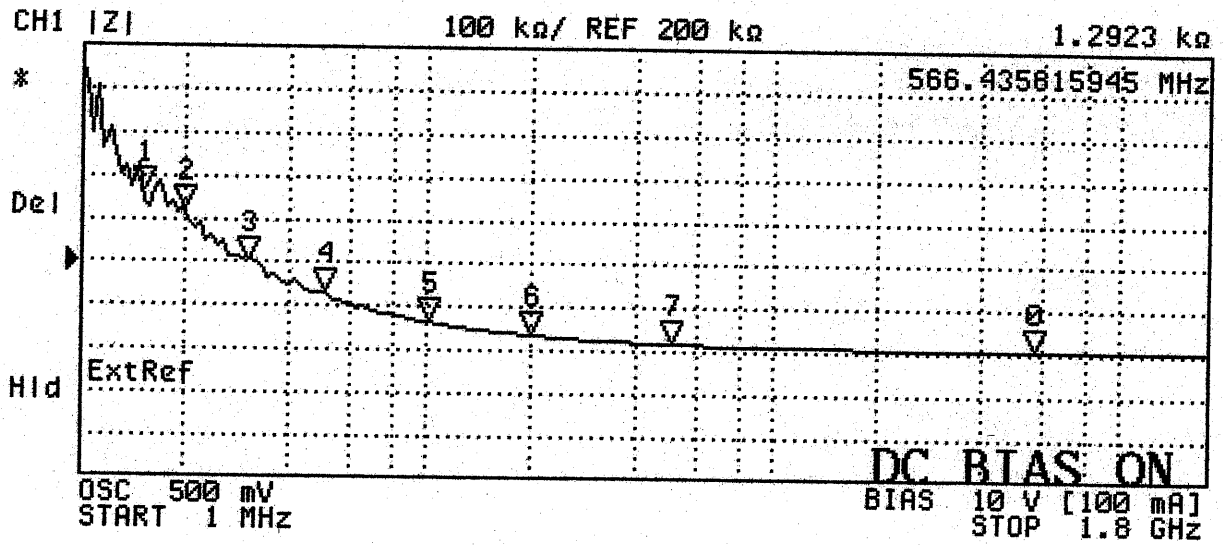
1A



⑥ |Z| @ 1.0000 MHz ≅ 652 KΩ

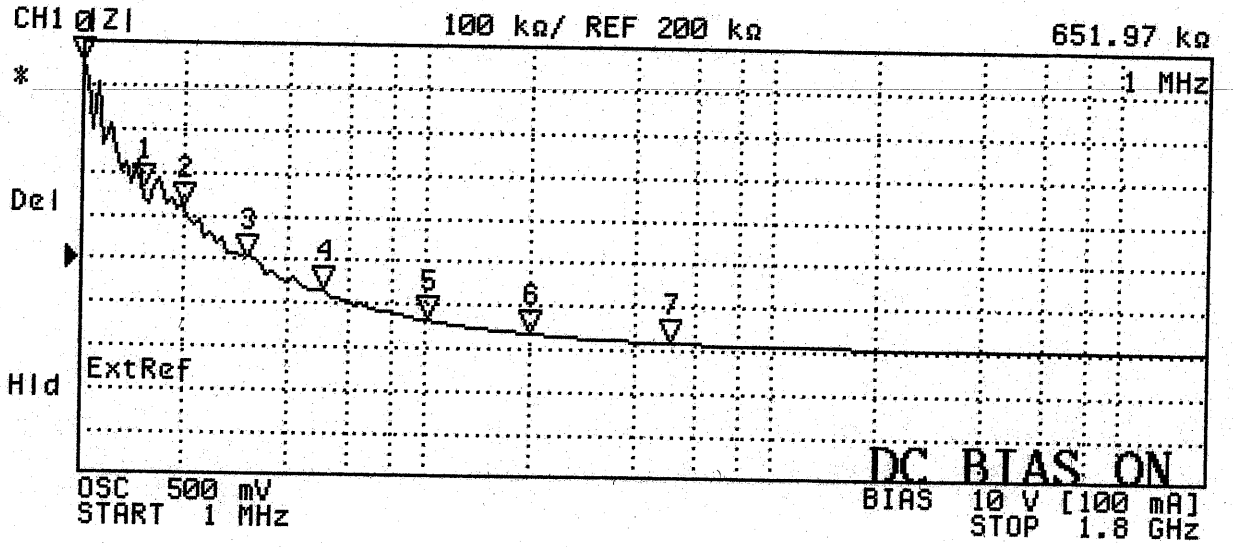
⑦ |Z| @ 1.8 GHz ≅ .502 KΩ

1B

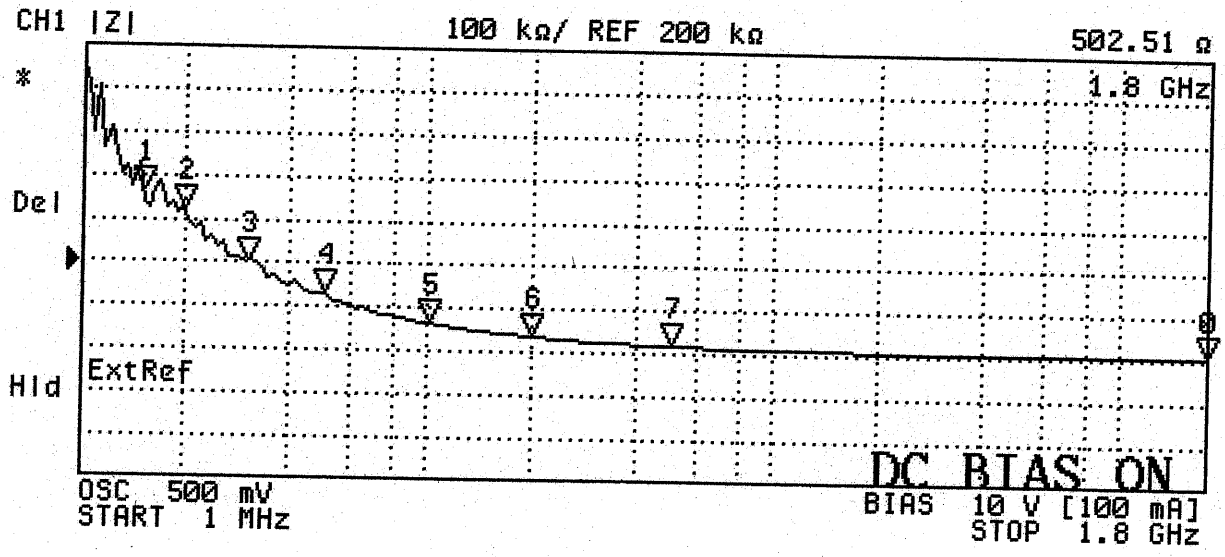


N	STIMULUS	VAL
0	566.435615945 MHz	1.2923 kΩ
1	1.502533134 MHz	360.64 kΩ
2	2.00228497 MHz	314.08 kΩ
3	3.004082066 MHz	196.94 kΩ
4	5.000716093 MHz	126.43 kΩ
5	10.010896139 MHz	59.613 kΩ
6	20.010394243 MHz	30.081 kΩ
7	50.016347219 MHz	11.997 kΩ

1C



N	STIMULUS	VAL
0	1 MHz	651.97 kΩ
1	1.502533134 MHz	360.64 kΩ
2	2.00228497 MHz	314.08 kΩ
3	3.004082066 MHz	196.94 kΩ
4	5.000716093 MHz	126.43 kΩ
5	10.010896139 MHz	59.613 kΩ
6	20.010394243 MHz	30.081 kΩ
7	50.016347219 MHz	11.997 kΩ



N	STIMULUS	VAL
0	1.8 GHz	502.51 Ω
1	1.502533134 MHz	360.64 kΩ
2	2.00228497 MHz	314.08 kΩ
3	3.004082066 MHz	196.94 kΩ
4	5.000716093 MHz	126.43 kΩ
5	10.010896139 MHz	59.613 kΩ
6	20.010394243 MHz	30.081 kΩ
7	50.016347219 MHz	11.997 kΩ

NOTE: ① DEV#9/4291B/ TEMP TEST 10 AUG 2000 ②

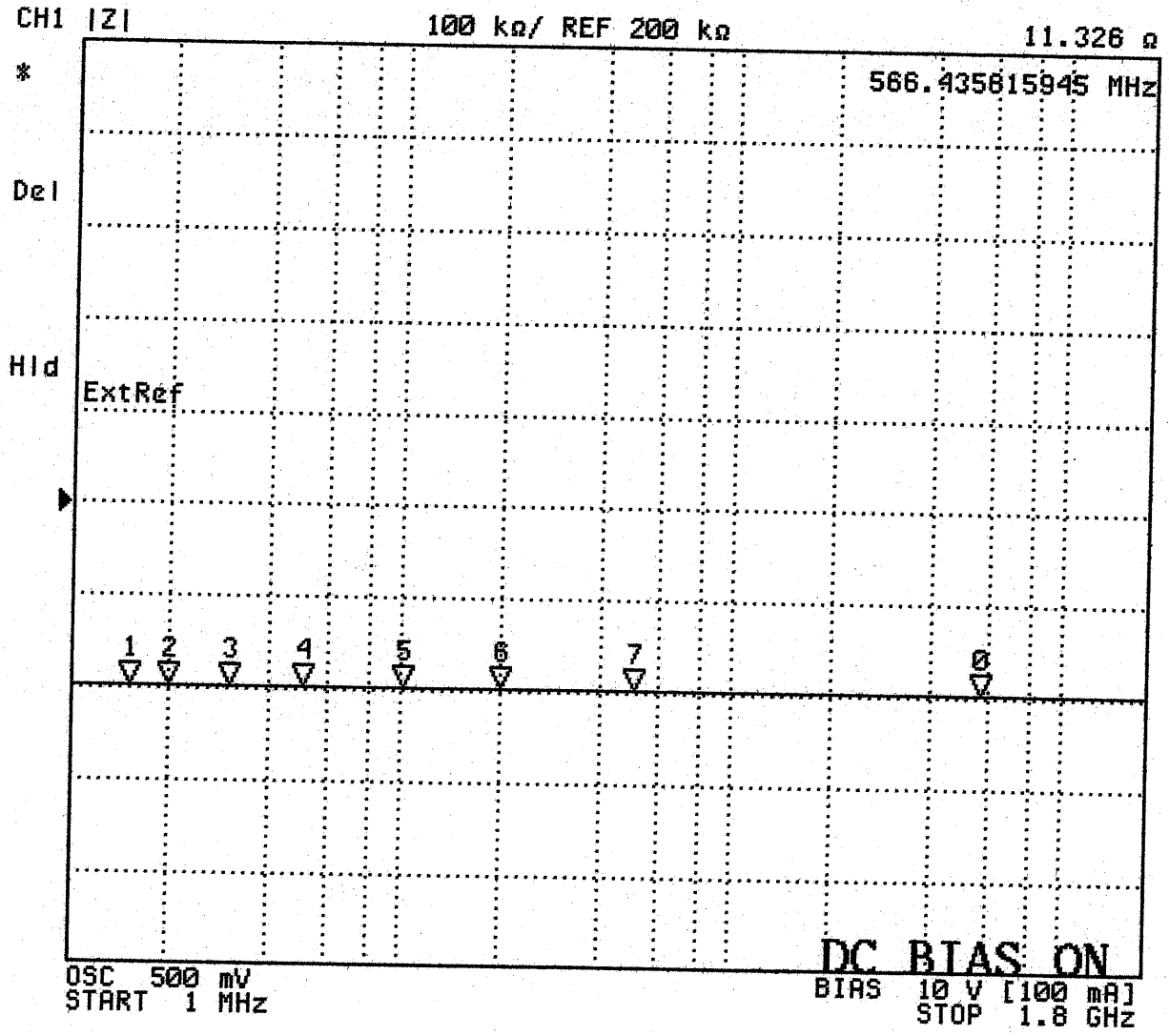
② FILE: 1

③ 10 V @ 100 mA

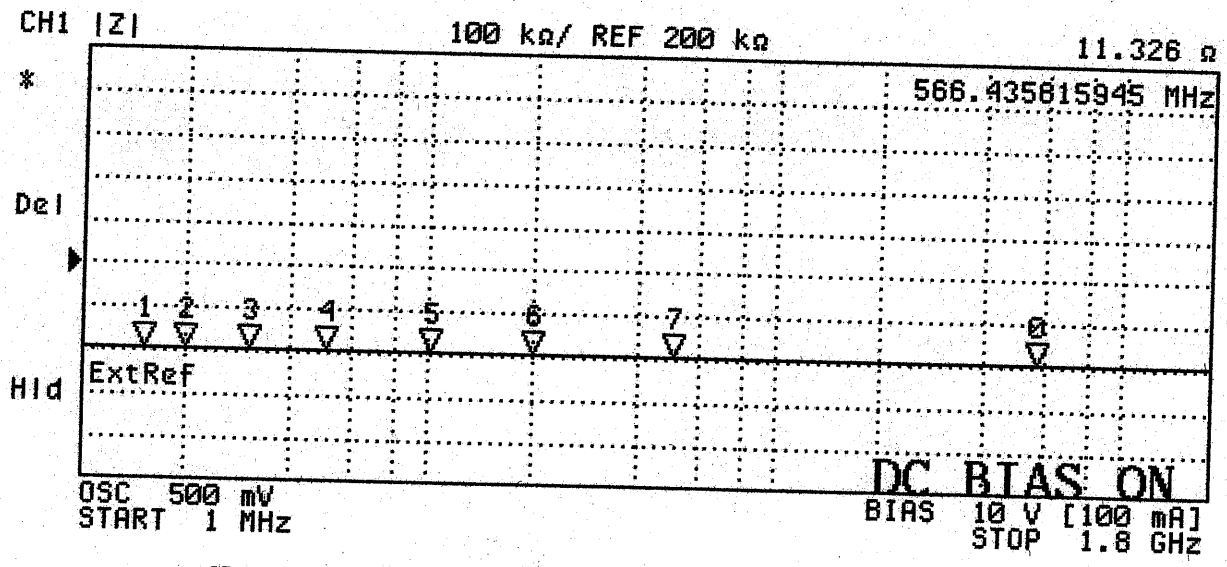
④ |Z| @ 566 MHz ≃ 11.3 Ω

⑤ NONFUNCTIONAL @ T ≃ 124°C

2A



2B



N	STIMULUS	VAL
0	566.435615945 MHz	11.326 Ω
1	1.502533134 MHz	1.7034 Ω
2	2.00228497 MHz	1.7036 Ω
3	3.004082066 MHz	1.7096 Ω
4	5.000716093 MHz	1.7366 Ω
5	10.010896139 MHz	1.7733 Ω
6	20.010394243 MHz	1.8883 Ω
7	50.016347219 MHz	2.265 Ω

NOTE: ① OEV#9

② FILE: 2

③ 10 V @ 100 mA

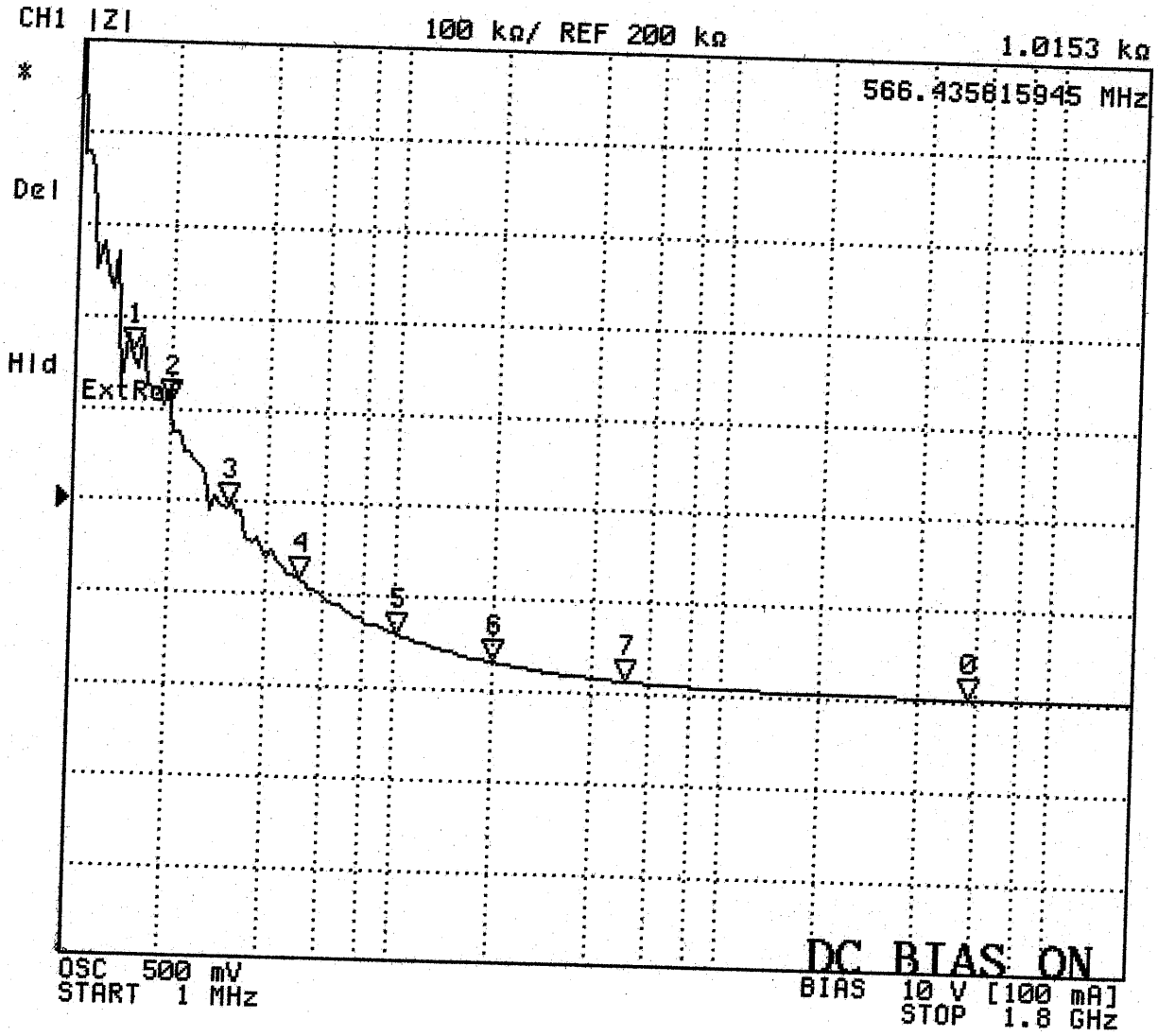
④ |Z| @ 566 MHz ≃ 1.02 KΩ

⑤ FUNCTIONAL @ T ≃ 40°C

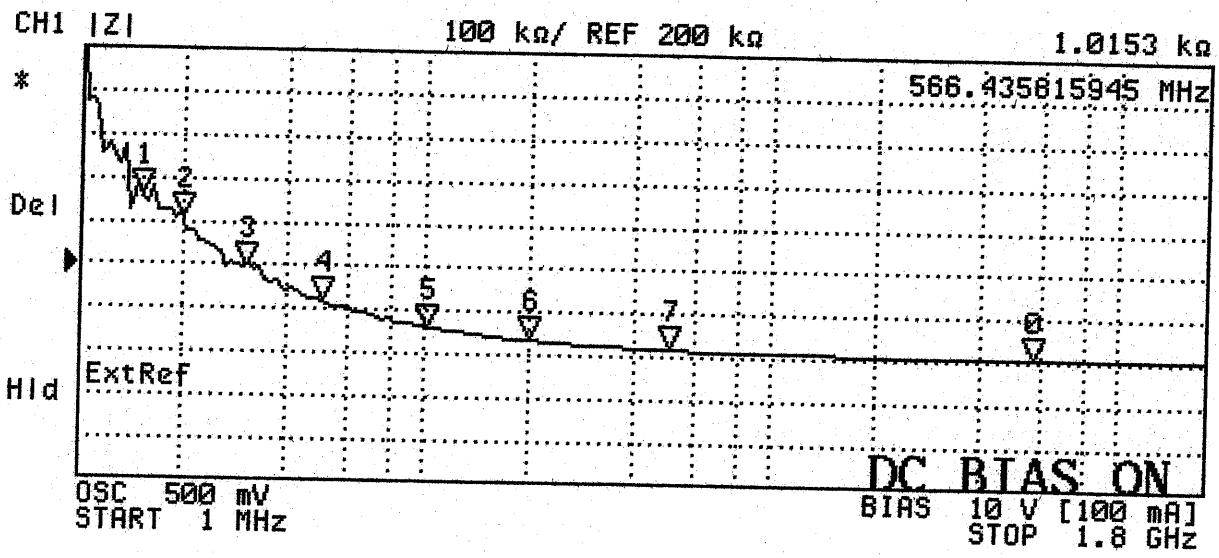
10 AUG 2000

3

2C



2D



N	STIMULUS	VAL
0	566.435615945 MHz	1.0153 kΩ
1	1.502533134 MHz	360.41 kΩ
2	2.00228497 MHz	304.29 kΩ
3	3.004082066 MHz	192.76 kΩ
4	5.000716093 MHz	113.85 kΩ
5	10.010896139 MHz	57.047 kΩ
6	20.010394243 MHz	28.963 kΩ
7	50.016347219 MHz	11.384 kΩ

NOTE: ① DEV#9

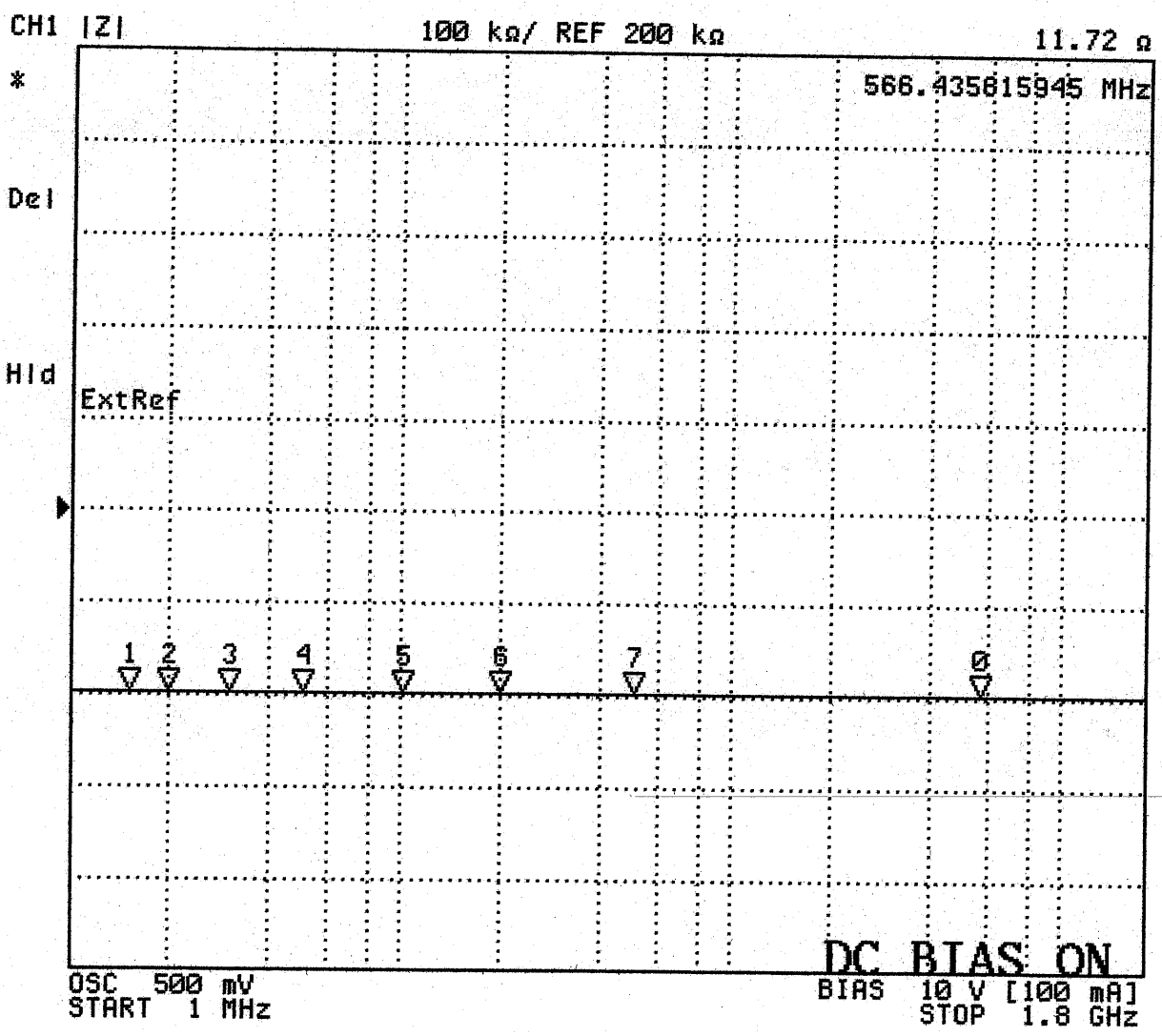
② FILE: 3

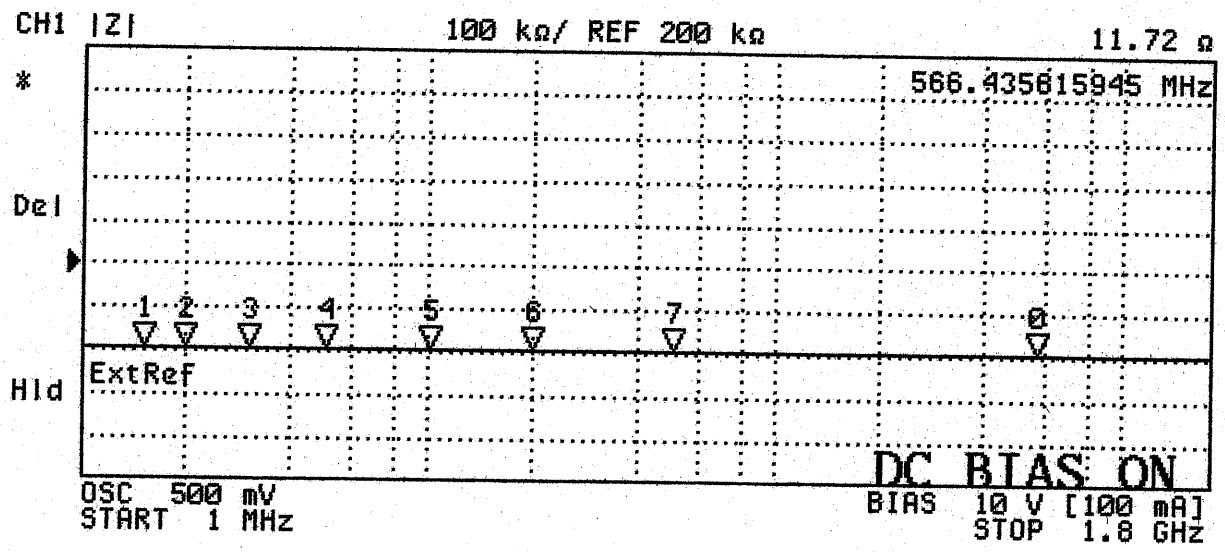
③ 10V @ 100mA

④ |Z| @ 566 MHz = .012 KΩ

⑤ NONFUNCTIONAL @ T = 90°C

10 AUG 2000 (4)





N	STIMULUS	VAL
0	566.435615945 MHz	11.72 Ω
1	1.502533134 MHz	2.4387 Ω
2	2.00228497 MHz	2.4296 Ω
3	3.004082066 MHz	2.412 Ω
4	5.000716093 MHz	2.403 Ω
5	10.010896139 MHz	2.415 Ω
6	20.010394243 MHz	2.502 Ω
7	50.016347219 MHz	2.8542 Ω

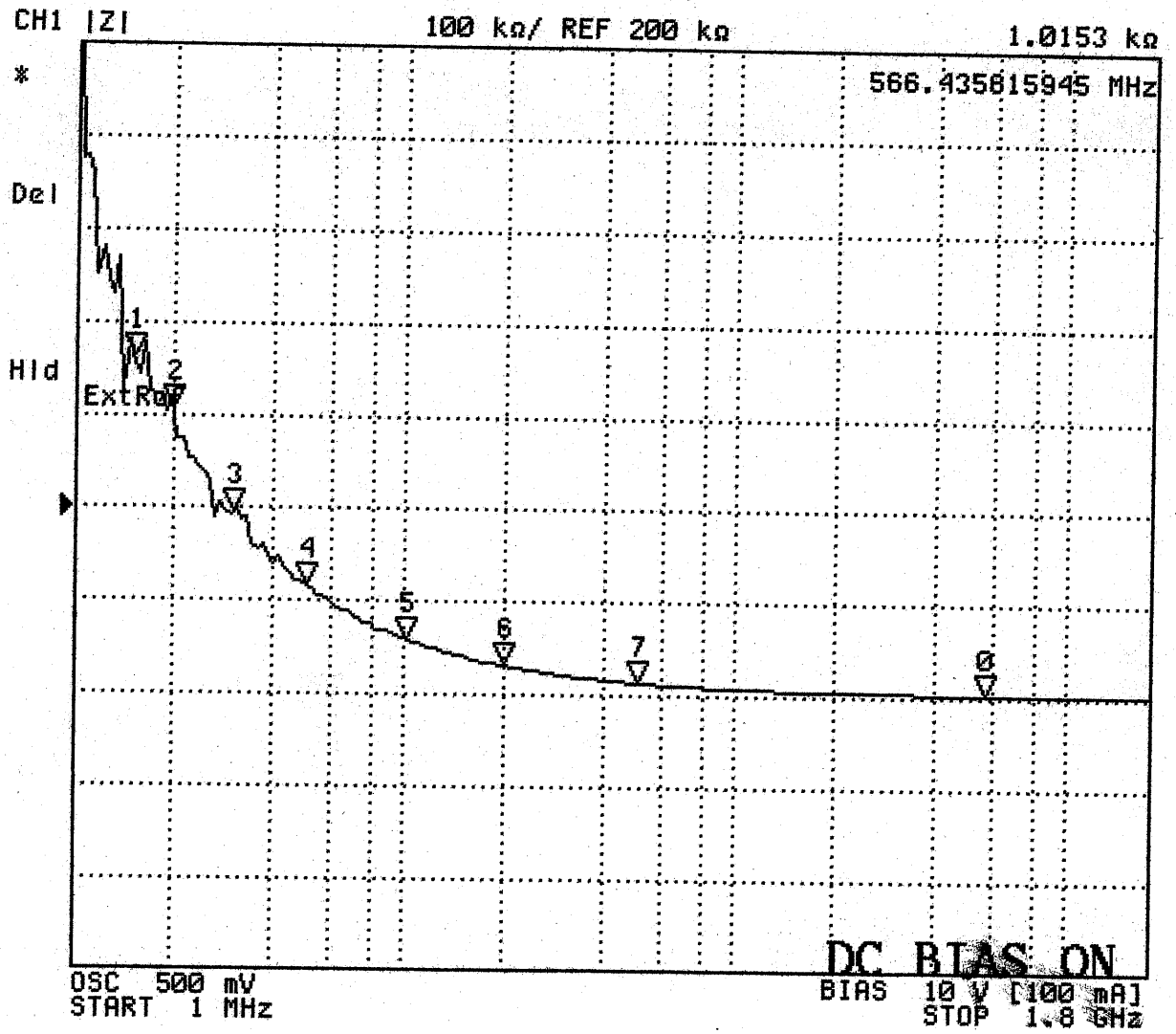
NOTE: ① DEV#9 — 10 AUG 2000 — (5)

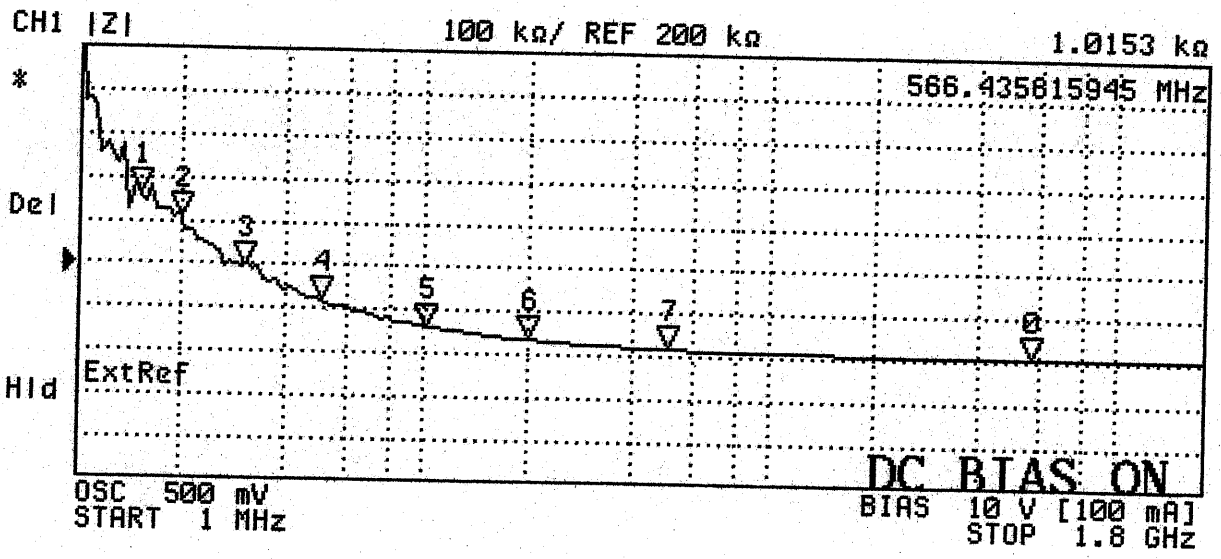
② FILE: 3A

③ 10 V @ 100 mA

④ |Z| @ 566 MHz ≃ 1.02 KΩ ~~0.92 KΩ~~

⑤ FUNCTIONAL @ T ≃ 40°C





N	STIMULUS	VAL
0	566.435615945 MHz	1.0153 kΩ
1	1.502533134 MHz	360.41 kΩ
2	2.00228497 MHz	304.29 kΩ
3	3.004082066 MHz	192.76 kΩ
4	5.000716093 MHz	113.85 kΩ
5	10.010896139 MHz	57.047 kΩ
6	20.010394243 MHz	28.963 kΩ
7	50.016347219 MHz	11.384 kΩ

NOTE: ① DEV#9

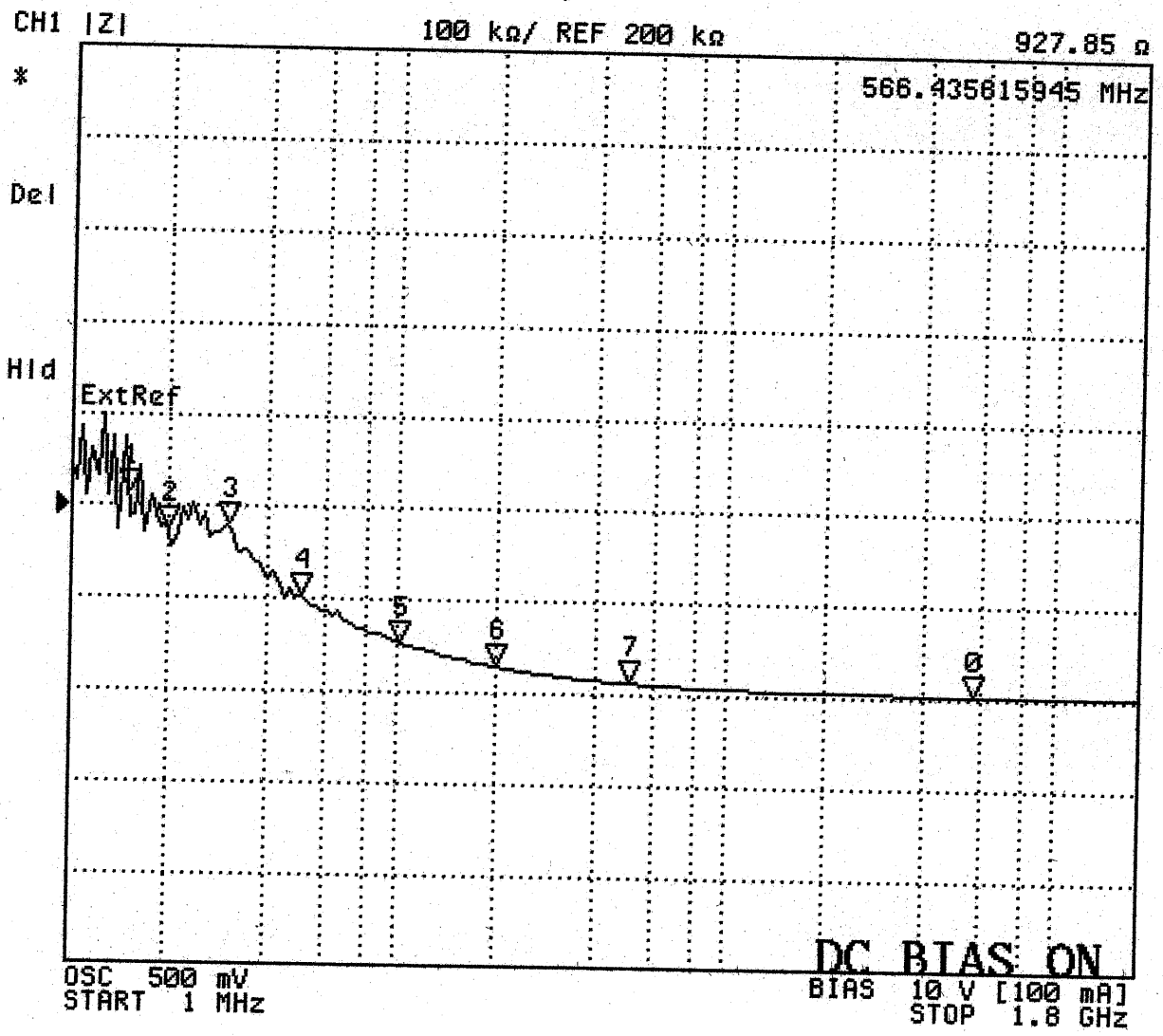
10 AUG 2000 ⑥

② FILE: 4

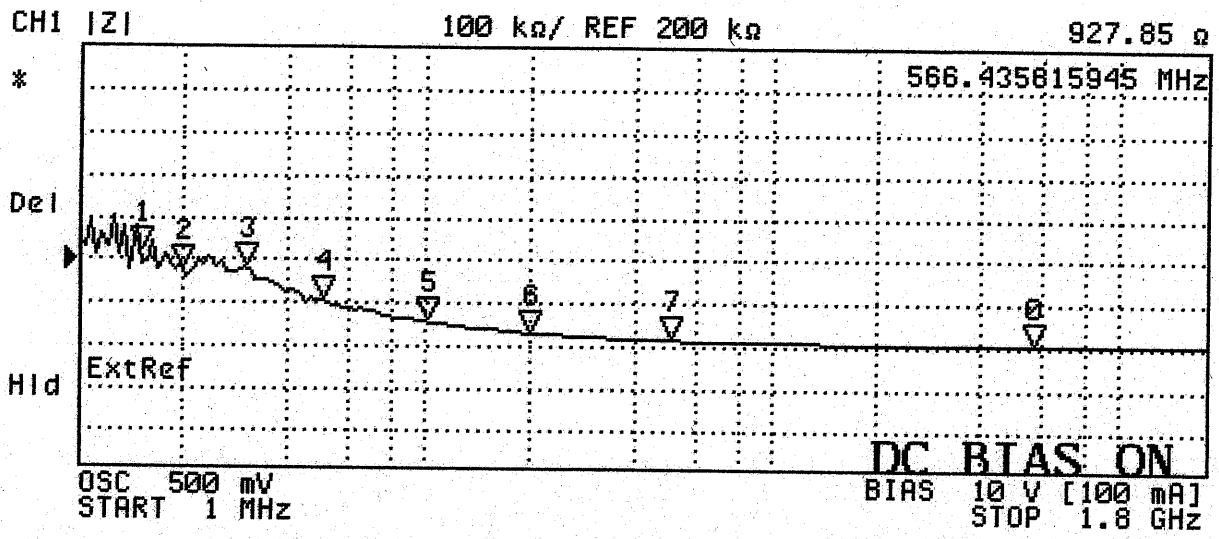
③ 10V@100mA

④ |Z|@ 566MHz ≃ .928 KΩ

⑤ BECOMMING NONFUNCTIONAL @ T ≃ 94°C

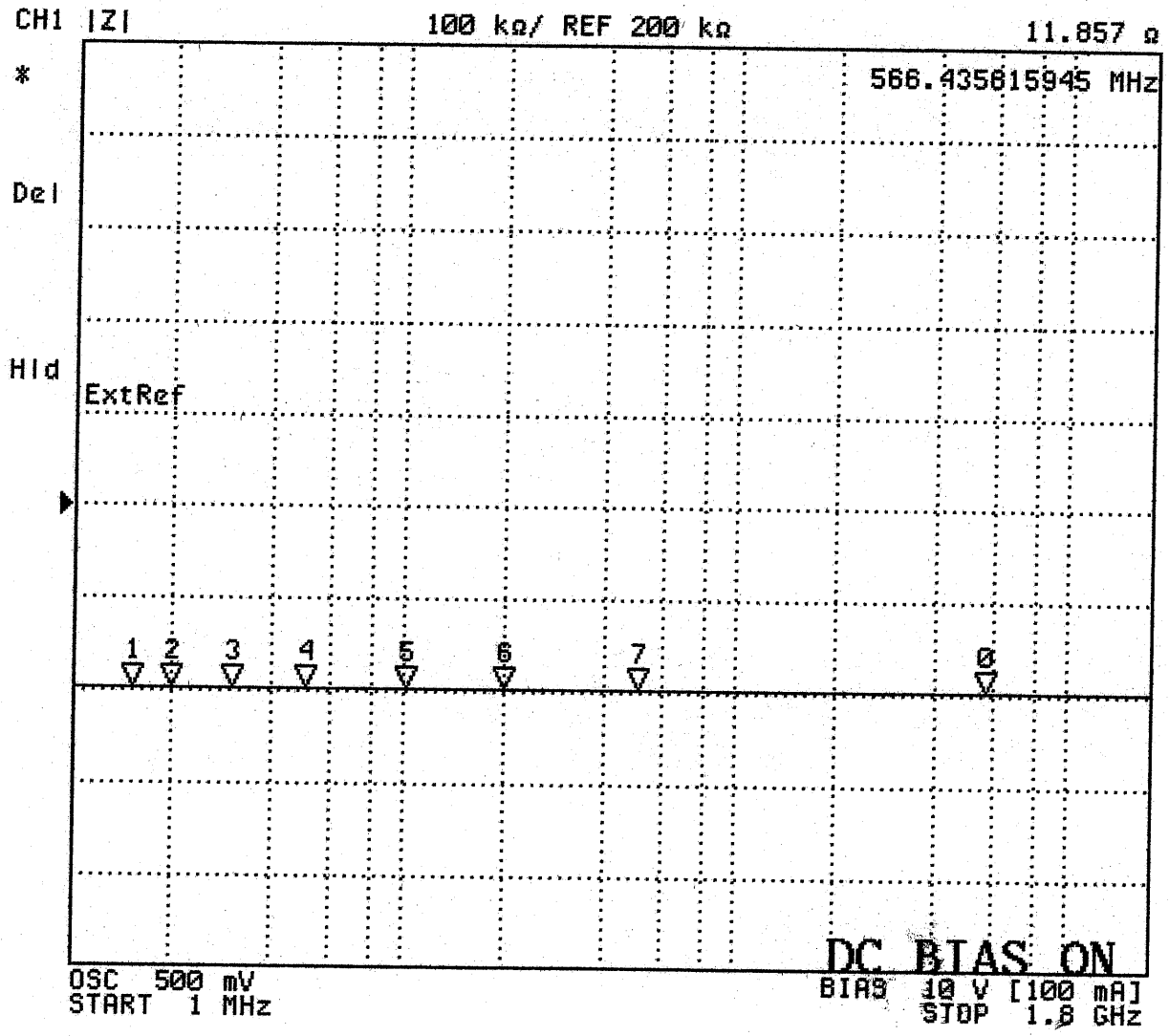


⑥ |Z|@1.8GHz ≃ .253KΩ



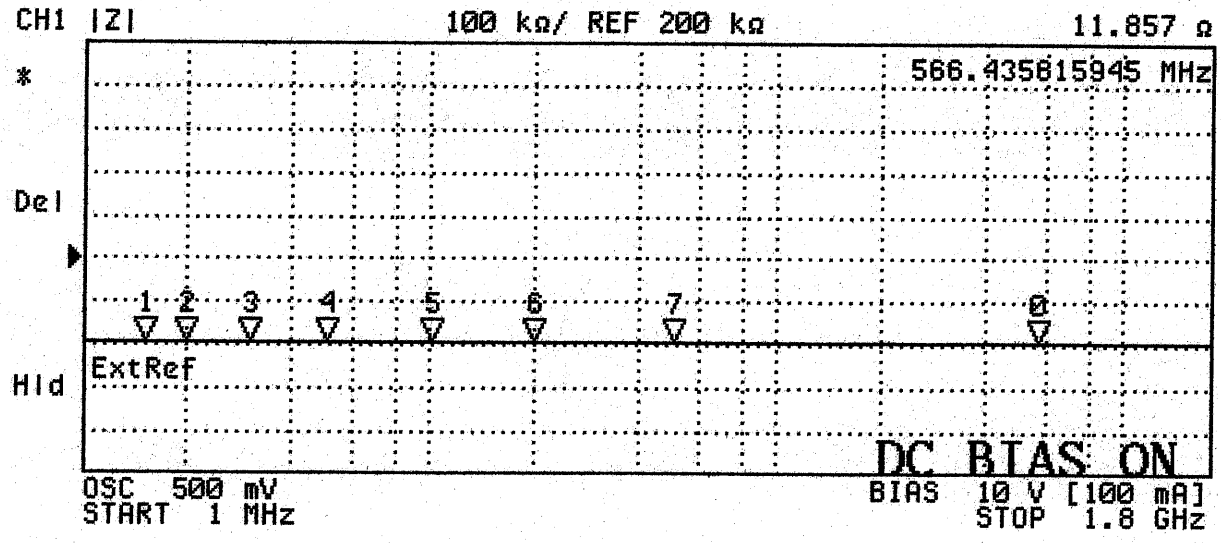
N	STIMULUS	VAL
0	566.435615945 MHz	927.85 Ω
1	1.502533134 MHz	212.16 kΩ
2	2.00228497 MHz	173.08 kΩ
3	3.004082066 MHz	176.2 kΩ
4	5.000716093 MHz	100.6 kΩ
5	10.010896139 MHz	51.693 kΩ
6	20.010394243 MHz	26.598 kΩ
7	50.016347219 MHz	10.339 kΩ

NOTE: ① DEV#9
② FILE:5
③ 10V@100mA
④ |Z|@566MHz ≃ .012 KΩ
⑤ T ≃ 94°C
⑥ NONFUNCTIONAL

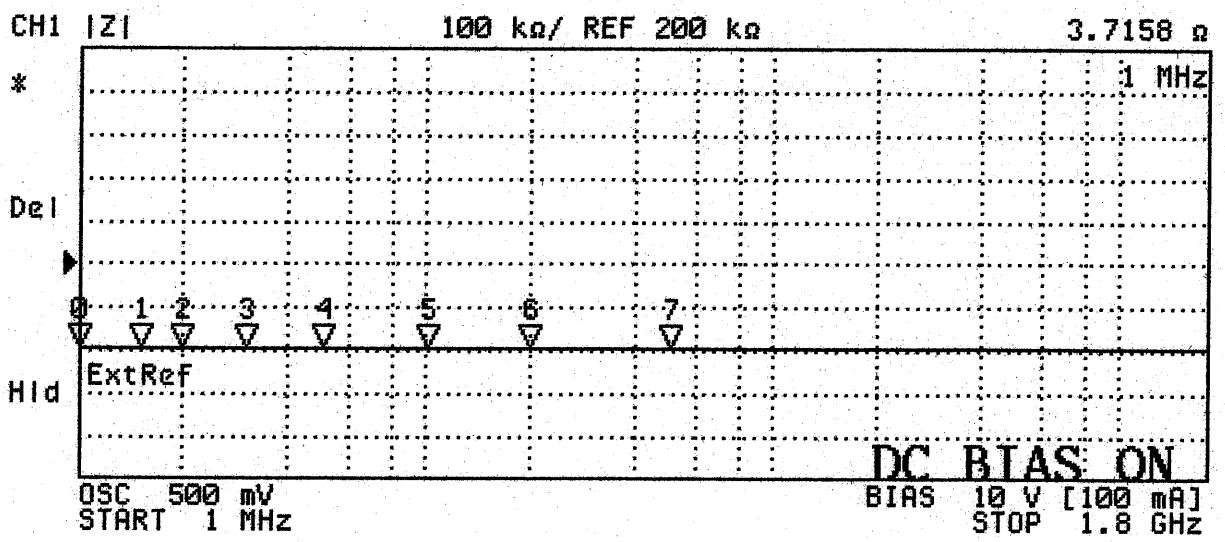


⑦ |Z|@1.0MHz ≃ .004 KΩ
⑧ |Z|@1.8GHz ≃ .035 KΩ

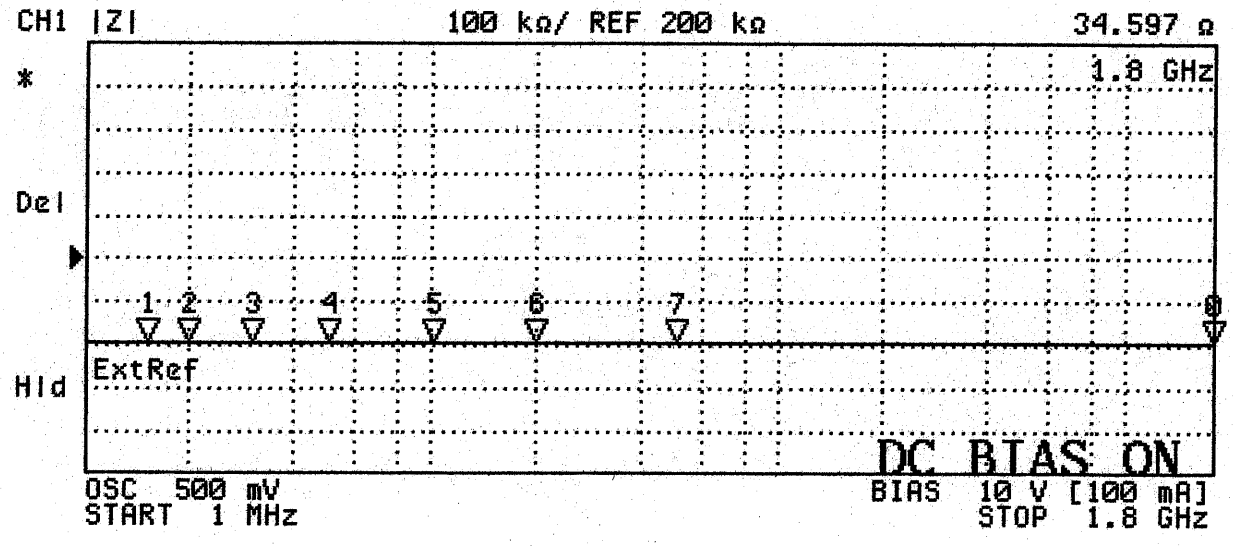
∴ PROVES DEVICE FAILS AS INDUCTOR
i.e. |Z| INCREASE WITH FREQUENCY IN AN INDUCTOR.



N	STIMULUS	VAL
0	566.435615945 MHz	11.857 Ω
1	1.502533134 MHz	3.6215 Ω
2	2.00228497 MHz	3.5433 Ω
3	3.004082066 MHz	3.4167 Ω
4	5.000716093 MHz	3.2979 Ω
5	10.010896139 MHz	3.1728 Ω
6	20.010394243 MHz	3.1557 Ω
7	50.016347219 MHz	3.3626 Ω



N	STIMULUS	VAL
0	1 MHz	3.7158 Ω
1	1.502533134 MHz	3.6215 Ω
2	2.00228497 MHz	3.5433 Ω
3	3.004082066 MHz	3.4167 Ω
4	5.000716093 MHz	3.2979 Ω
5	10.010896139 MHz	3.1728 Ω
6	20.010394243 MHz	3.1557 Ω
7	50.016347219 MHz	3.3626 Ω



N	STIMULUS	VAL
0	1.8 GHz	34.597 Ω
1	1.502533134 MHz	3.6215 Ω
2	2.00228497 MHz	3.5433 Ω
3	3.004082066 MHz	3.4167 Ω
4	5.000716093 MHz	3.2979 Ω
5	10.010896139 MHz	3.1728 Ω
6	20.010394243 MHz	3.1557 Ω
7	50.016347219 MHz	3.3626 Ω

NOTE: ① DEV#9

10 AUG 2000 ⑧

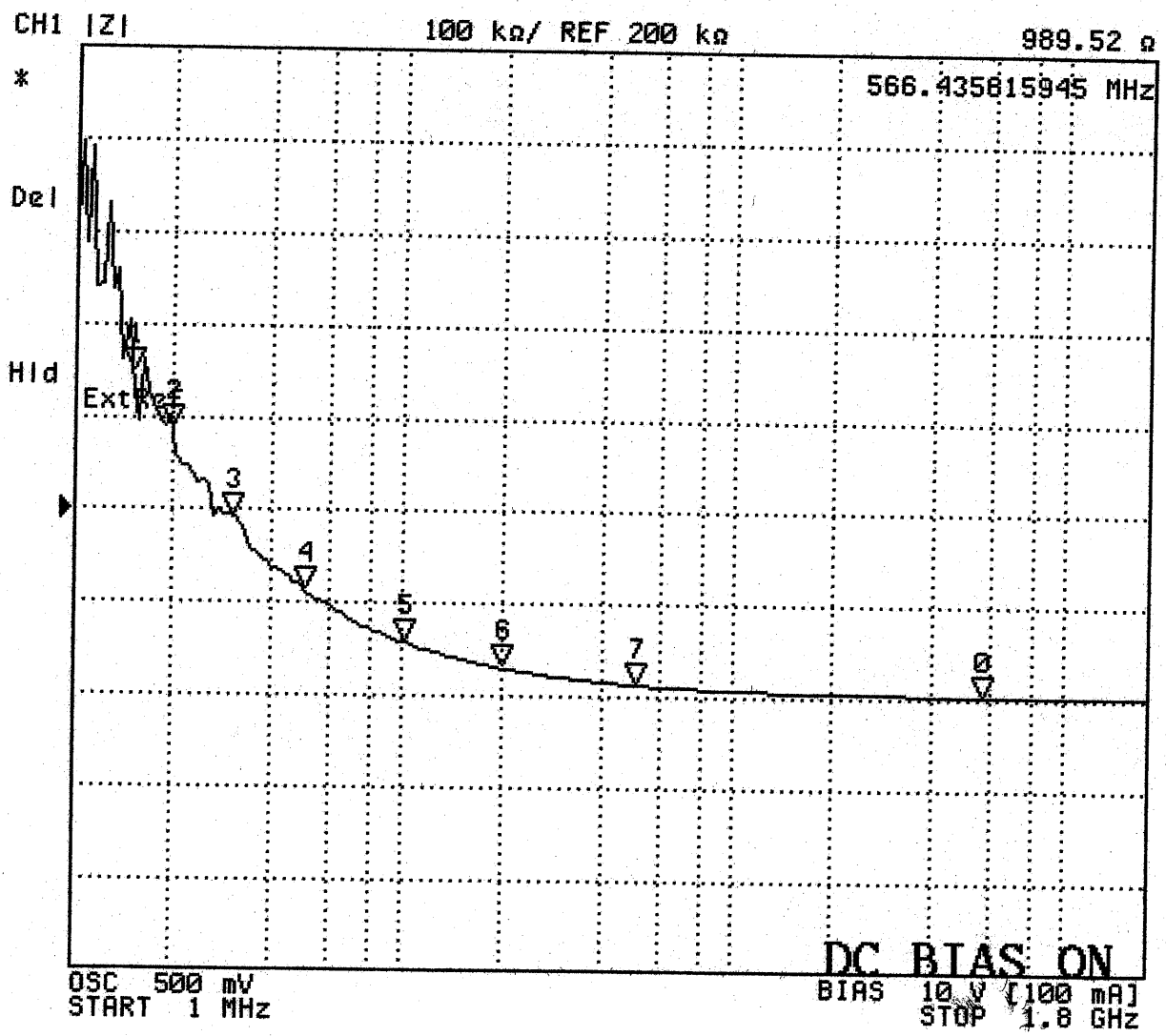
② FILE: 6

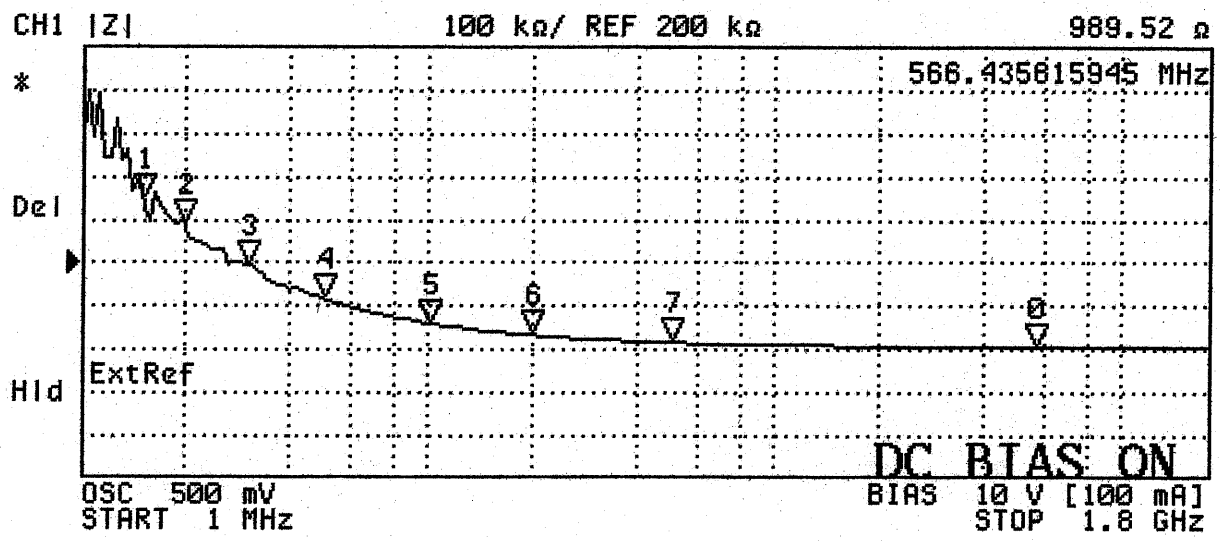
③ 10V @ 100 mA

④ |Z| @ 566 MHz ≃ .990 KΩ

⑤ T ≃ 52°C

⑥ FUNCTIONAL





N	STIMULUS	VAL
0	566.435615945 MHz	989.52 Ω
1	1.502533134 MHz	346.33 kΩ
2	2.00228497 MHz	286.98 kΩ
3	3.004082066 MHz	191.77 kΩ
4	5.000716093 MHz	111.39 kΩ
5	10.010896139 MHz	56.189 kΩ
6	20.010394243 MHz	28.149 kΩ
7	50.016347219 MHz	11.028 kΩ

NOTE: ① DEV#9

10 AUG 2000 (9)

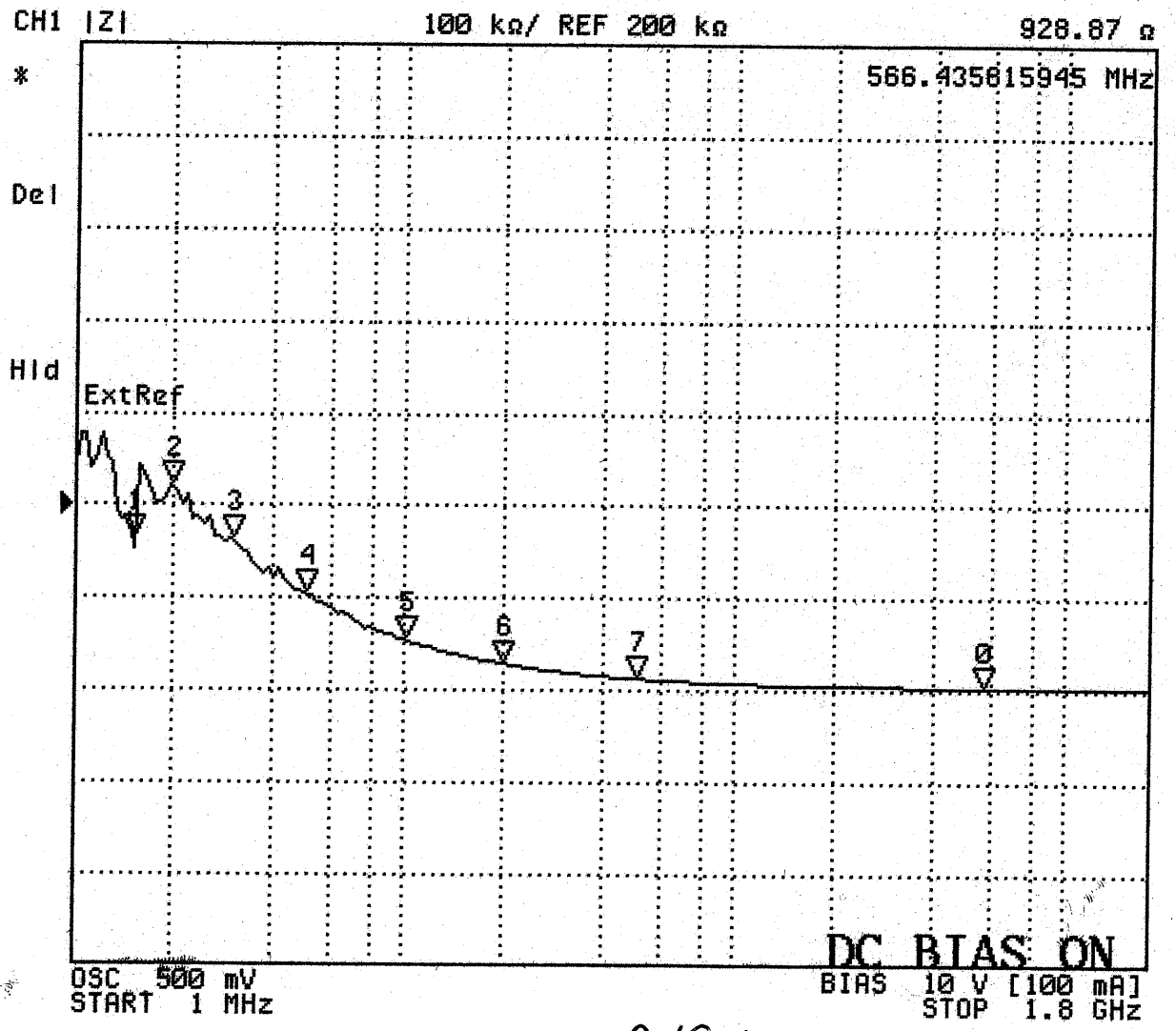
② FILE: 7

③ 10V @ 100 mA

④ |Z| @ 566MHz ≃ .929KΩ

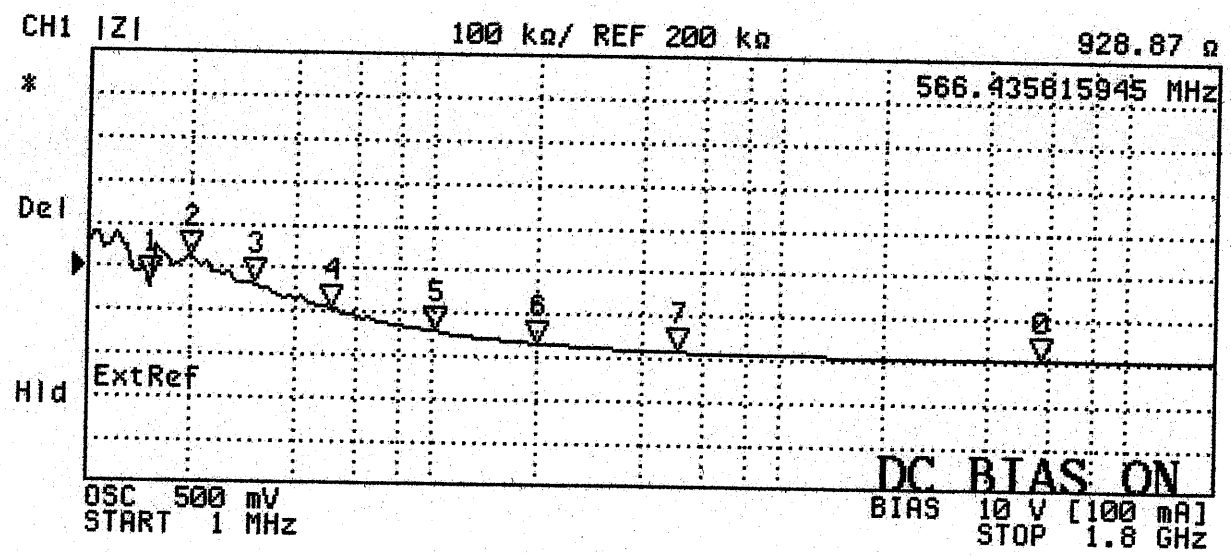
⑤ T ≃ 94°C

⑥ BEGINNING TO FAIL; TIME 11:40 AM, 1AUG2000.

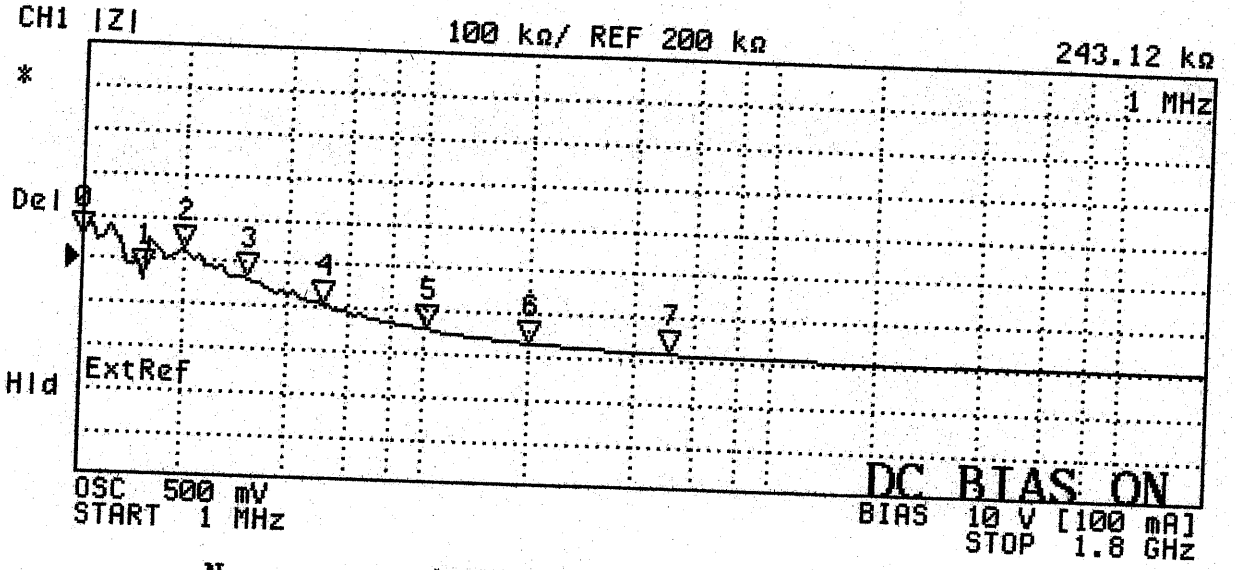


⑦ |Z| @ 1.0GHz ≃ 243KΩ

⑧ |Z| @ 1.8GHz ≃ .254 KΩ



N	STIMULUS	VAL
0	566.435615945 MHz	928.87 Ω
1	1.502533134 MHz	162.81 kΩ
2	2.00228497 MHz	219.07 kΩ
3	3.004082066 MHz	160.64 kΩ
4	5.000716093 MHz	102.49 kΩ
5	10.010896139 MHz	52.645 kΩ
6	20.010394243 MHz	26.301 kΩ
7	50.016347219 MHz	10.305 kΩ



N	STIMULUS	VAL
0	1 MHz	243.12 kΩ
1	1.502533134 MHz	162.81 kΩ
2	2.00228497 MHz	219.07 kΩ
3	3.004082066 MHz	160.64 kΩ
4	5.000716093 MHz	102.49 kΩ
5	10.010896139 MHz	52.645 kΩ
6	20.010394243 MHz	26.301 kΩ
7	50.016347219 MHz	10.305 kΩ