

NOTE: ① DEV#9/4PG1B/TEMP TEST 11 AUG 2000 ①

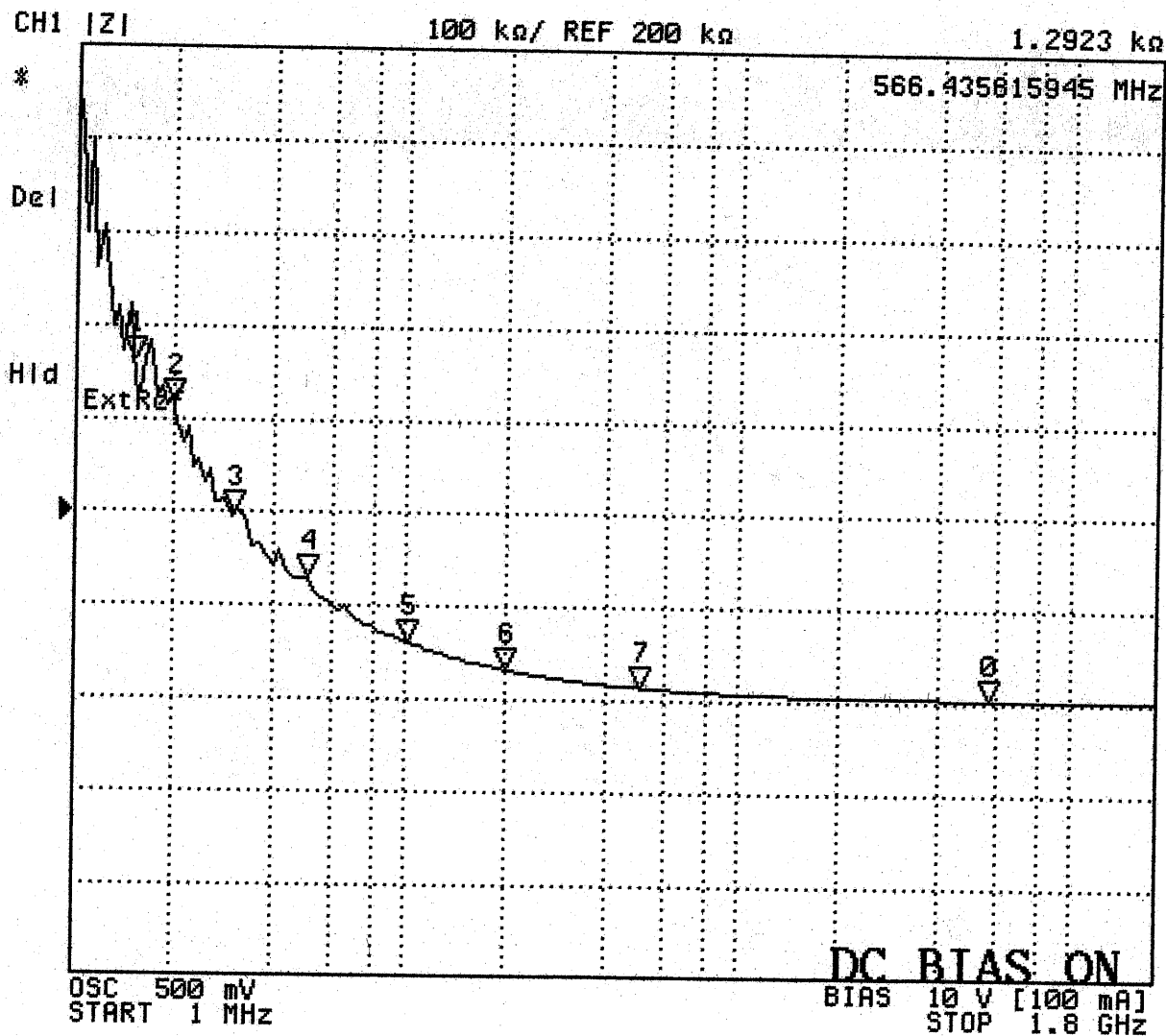
② FILE: 0

1A

③ 10V @ 100 mA

④ $|Z| @ 566 \text{ MHz} \approx 1.29 \text{ K}\Omega$

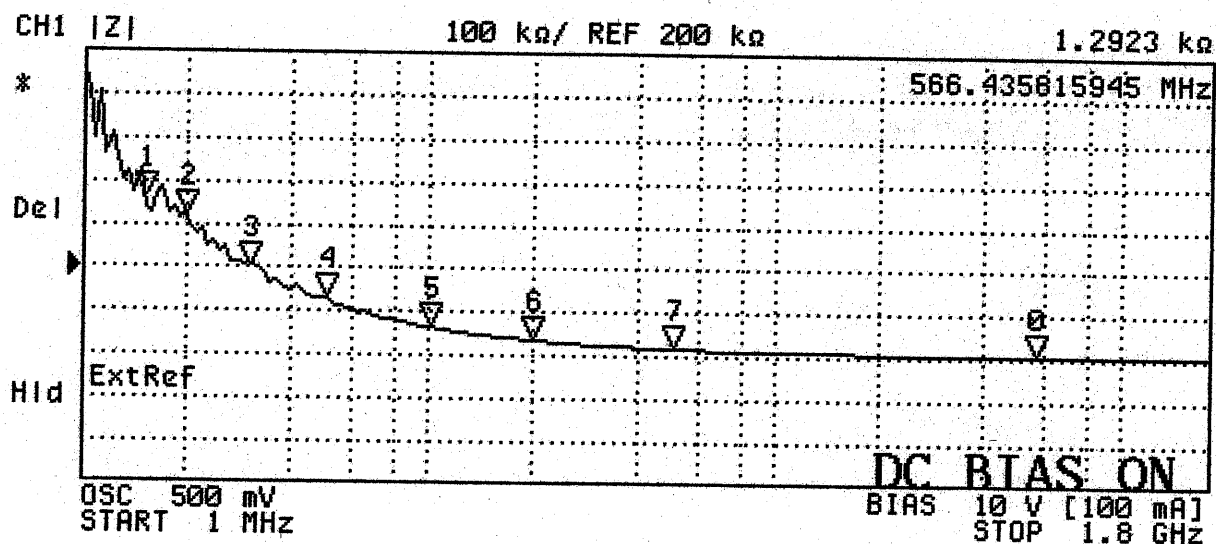
⑤ $T \approx 24^\circ \text{C}$ (ROOM TEMP)



⑥ $|Z| @ 1.0 \text{ MHz} \approx 652 \text{ K}\Omega$

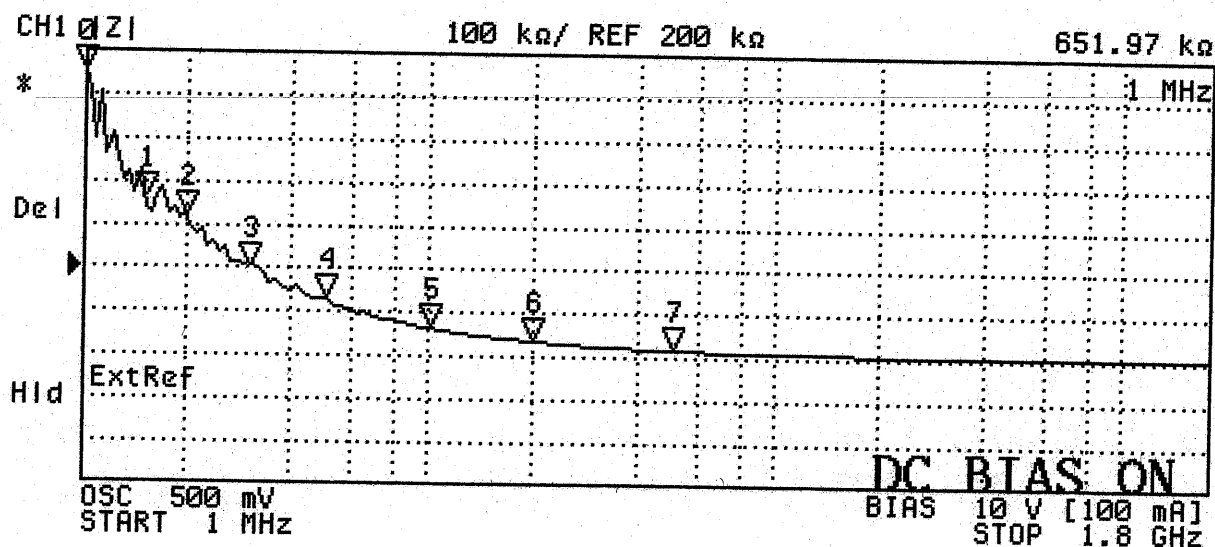
⑦ $|Z| @ 1.8 \text{ GHz} \approx .502 \text{ K}\Omega$

1B



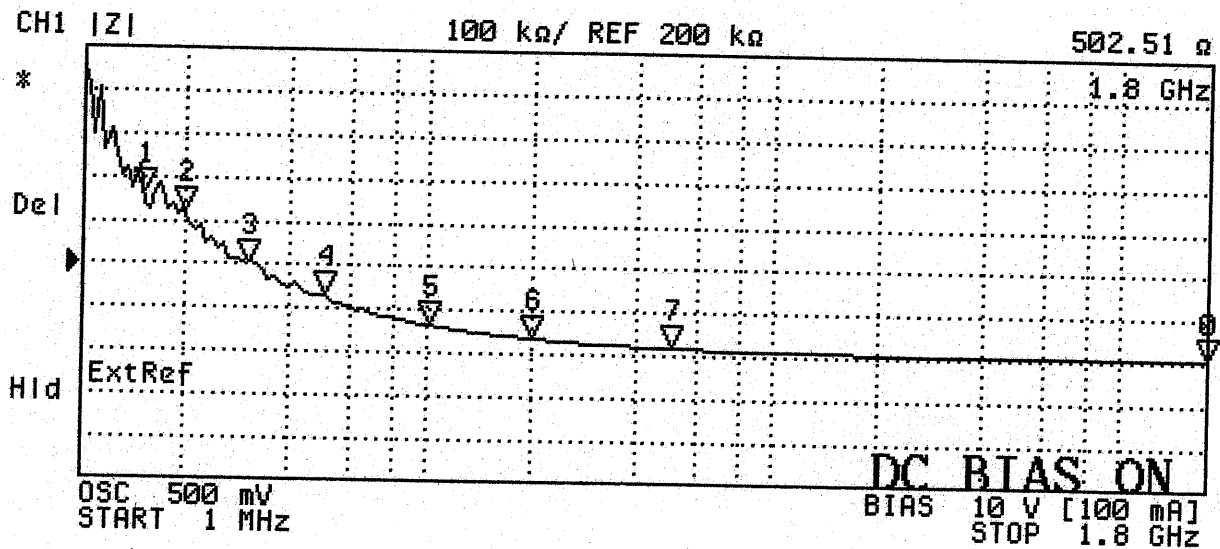
N	STIMULUS	VAL
0	566.435615945 MHz	1.2923 k Ω
1	1.502533134 MHz	360.64 k Ω
2	2.00228497 MHz	314.08 k Ω
3	3.004082066 MHz	196.94 k Ω
4	5.000716093 MHz	126.43 k Ω
5	10.010896139 MHz	59.613 k Ω
6	20.010394243 MHz	30.081 k Ω
7	50.016347219 MHz	11.997 k Ω

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

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

NOTE: ① OS#9/429103/TEMP TEST

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②

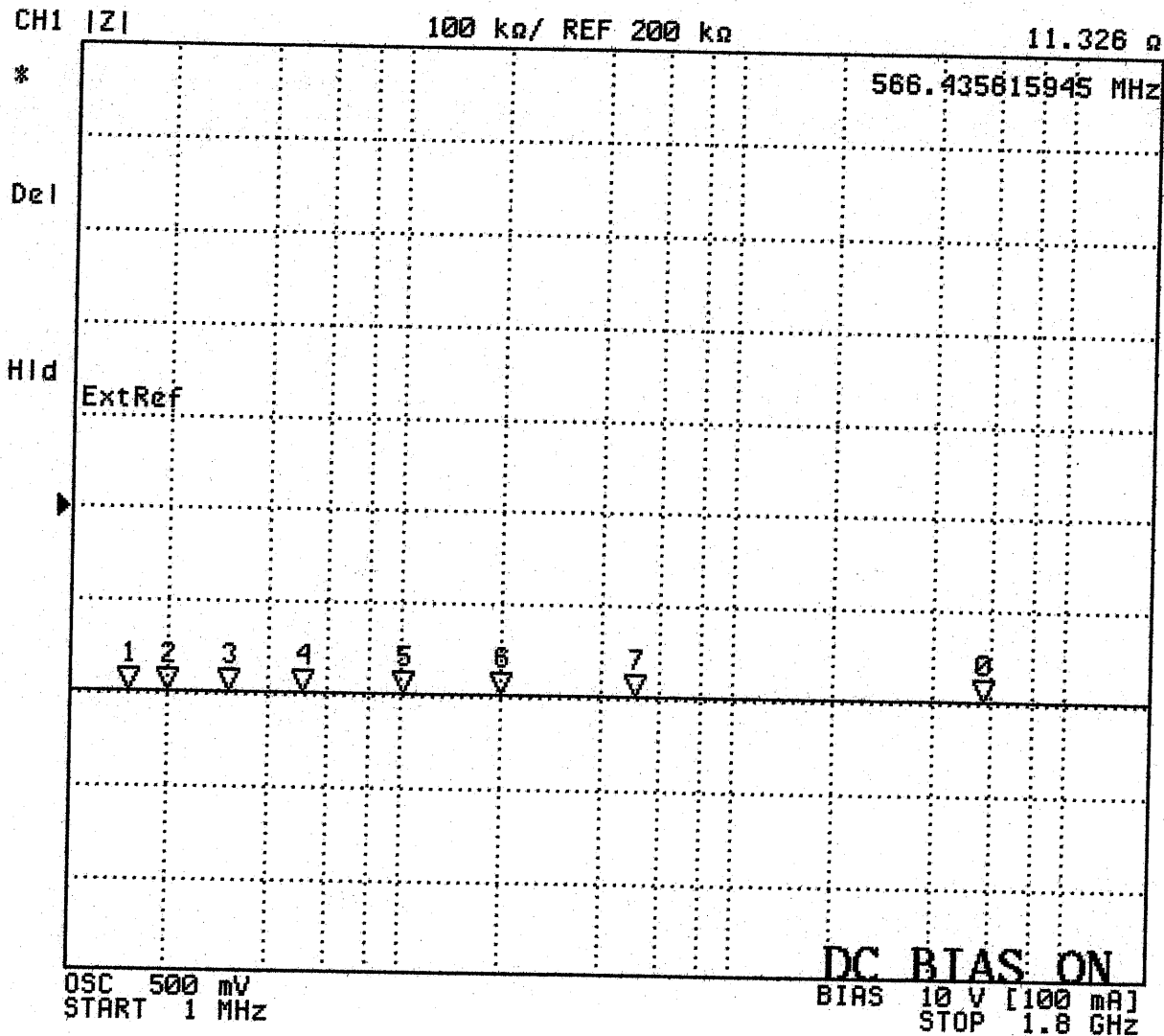
② FILE: 1

③ DV @ 100 mA

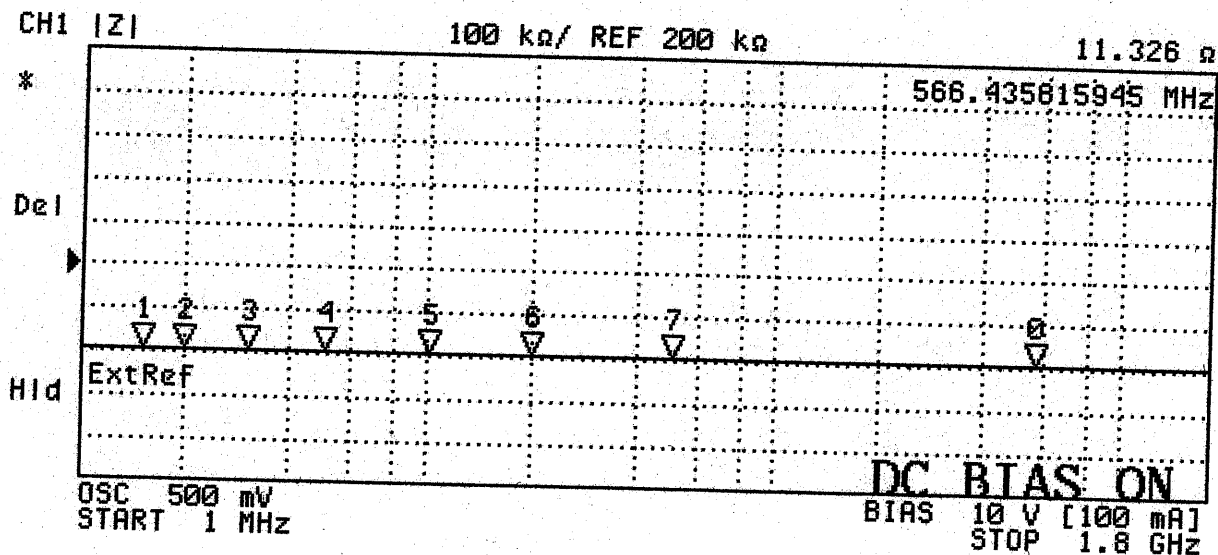
2A

④ $I_2 / @ 566 \text{ mHz} \approx 11.3 \Omega$

⑤ NONFUNCTIONAL @ $T \approx 124^\circ\text{C}$



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 DEV#9

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③

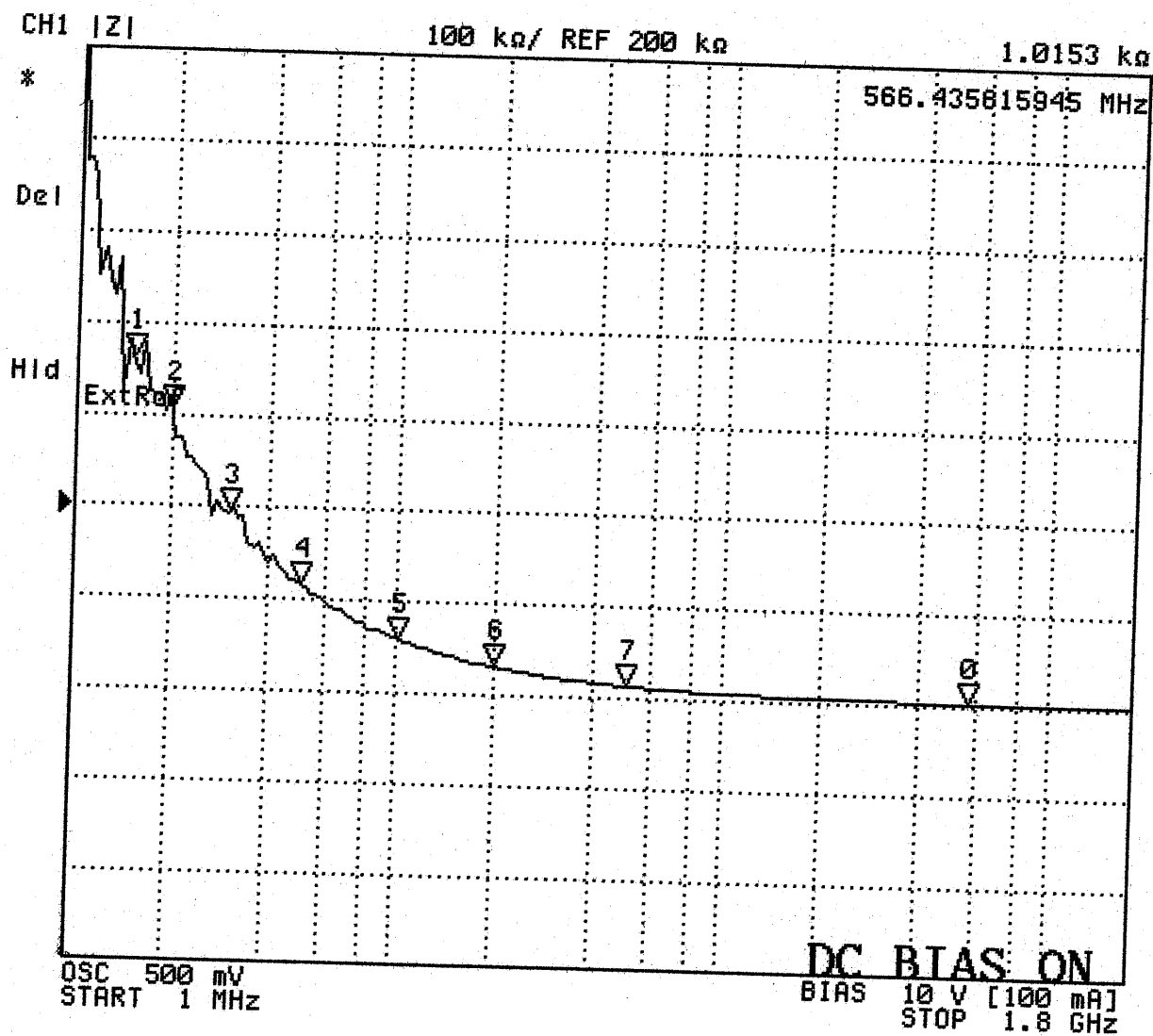
② FILE:2

2C

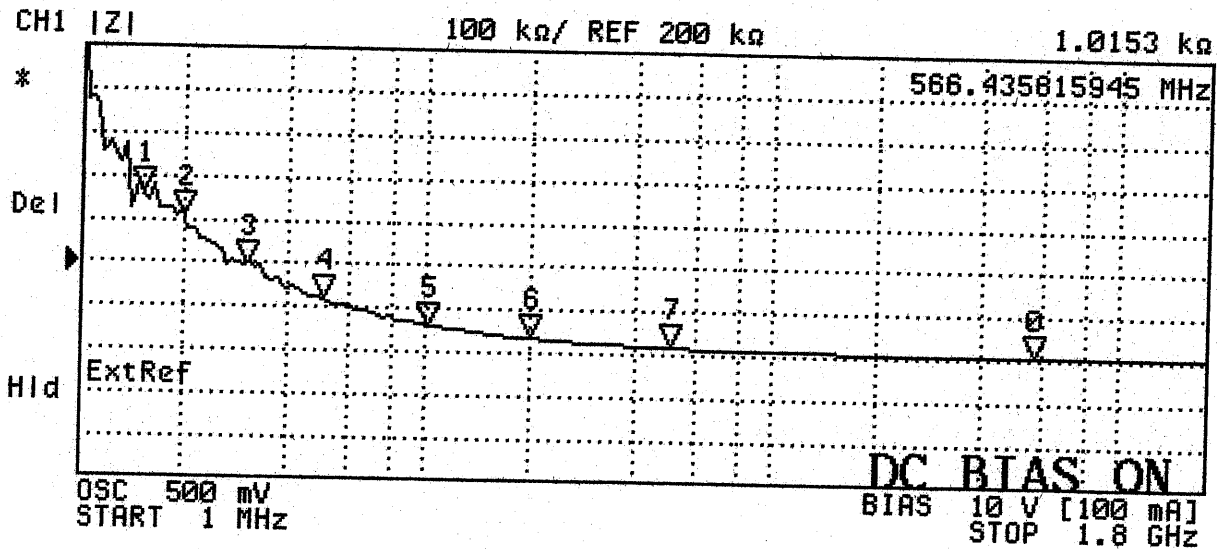
③ 10 V @ 100 mA

④ $|Z| @ 566 \text{ MHz} \approx 1.02 \text{ k}\Omega$

⑤ FUNCTIONAL @ $T \approx 40^\circ\text{C}$



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

NOTE: ① DEV#9

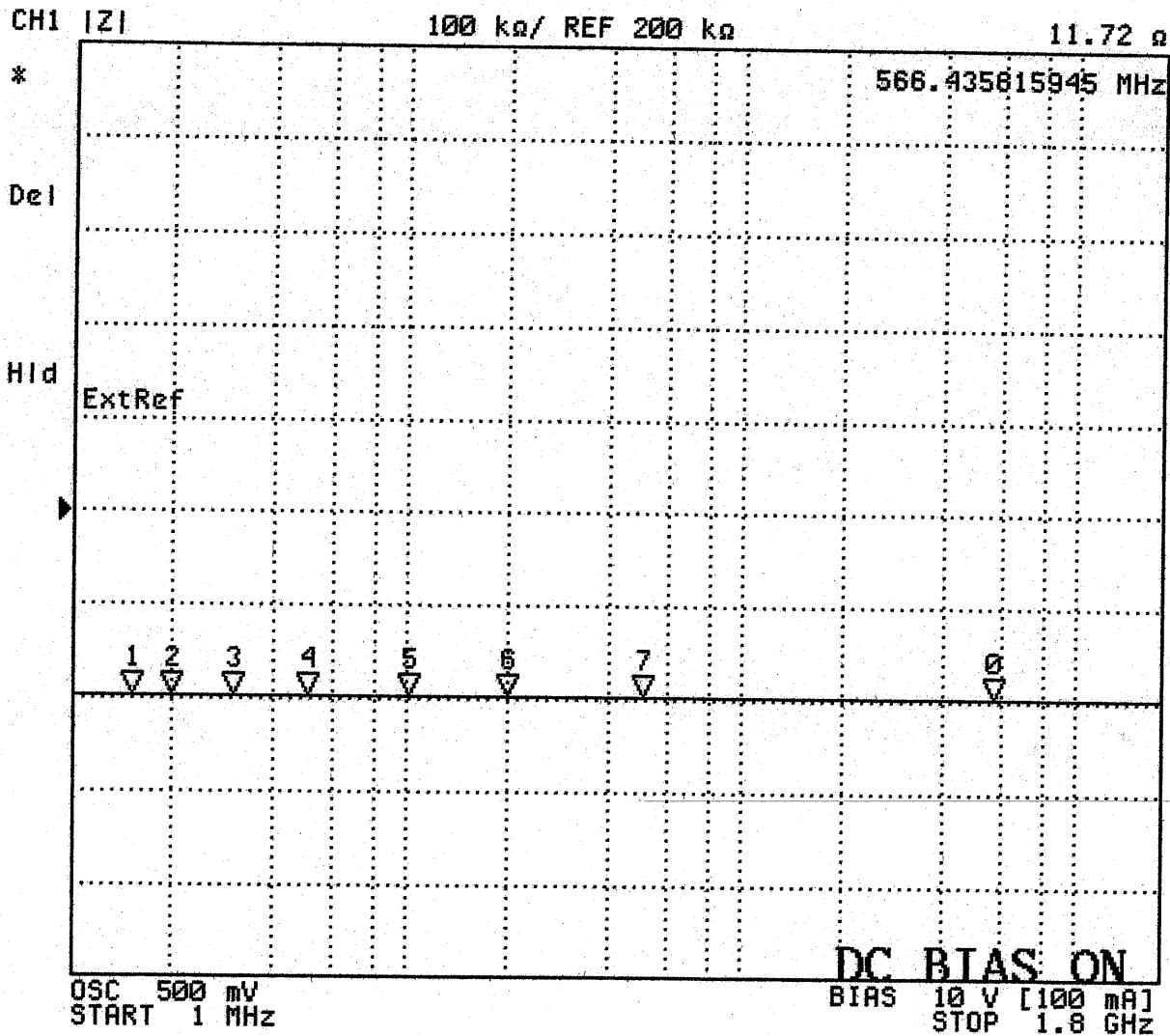
10 AUG 2000 ④

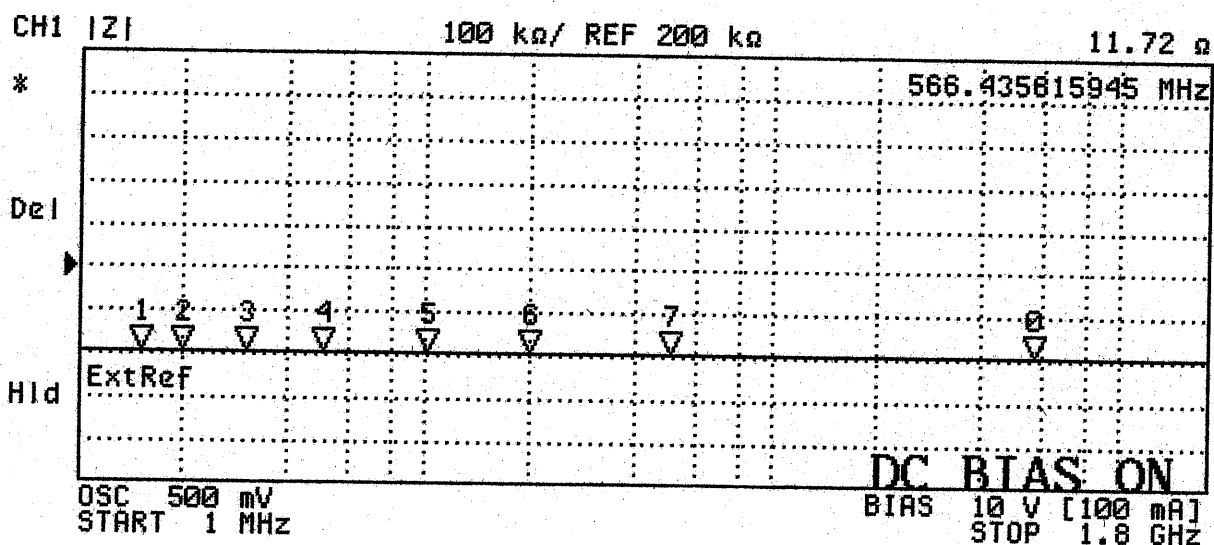
② FILE:3

③ 10V@100mA

④ $|Z| @ 566 \text{ MHz} \approx .012 \text{ k}\Omega$

⑤ NONFUNCTIONAL @ $T \approx 90^\circ\text{C}$





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

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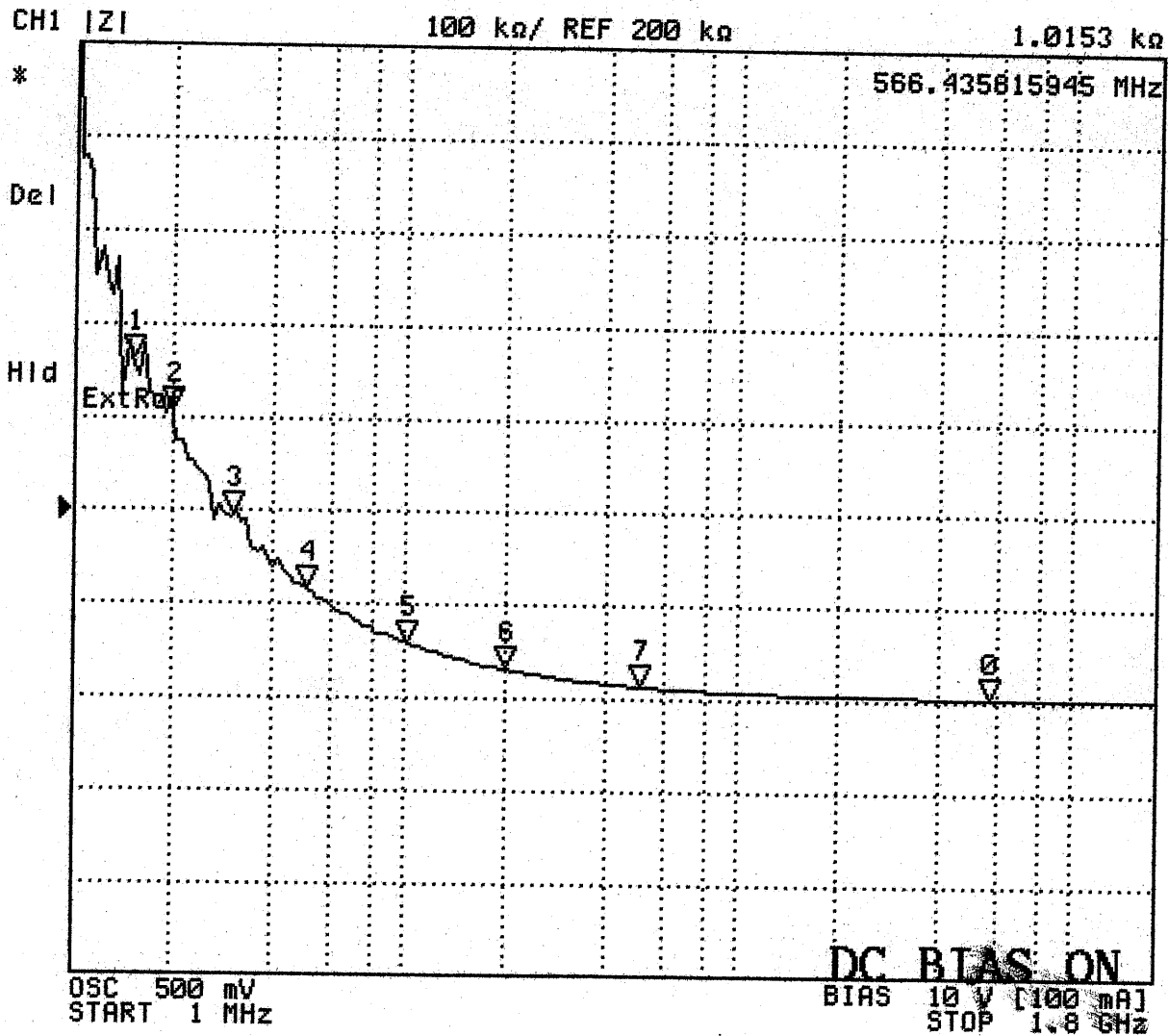
⑤

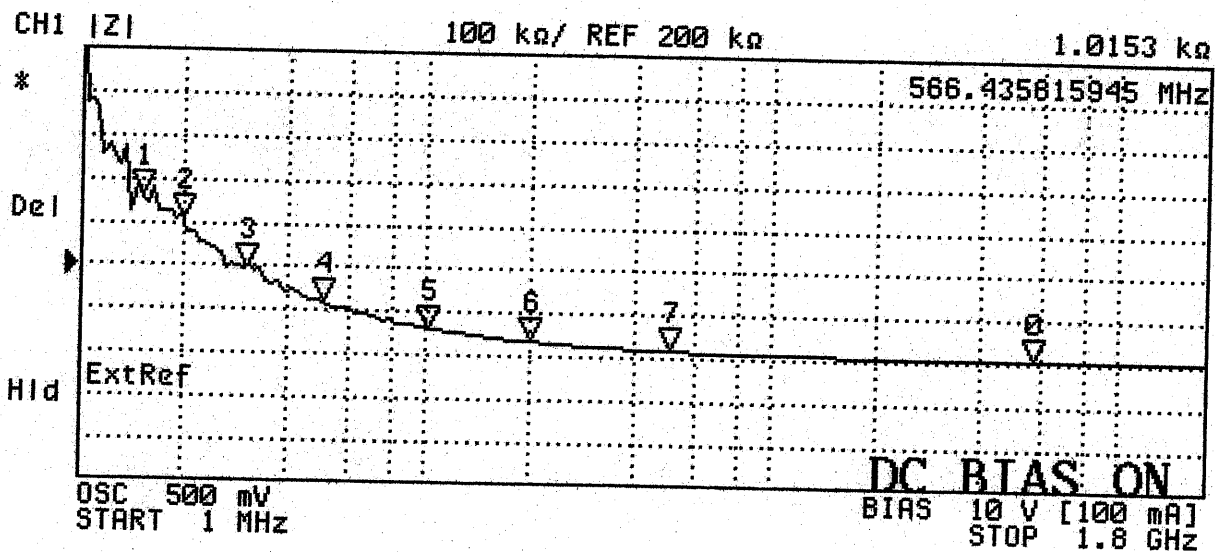
② FILE#3A

③ 10 V @ 100 mA

④ $|Z|$ @ 566 MHz $\approx 1.02 \text{ k}\Omega$

⑤ FUNCTIONAL @ $T \approx 40^\circ\text{C}$





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

NOTE: 005A9

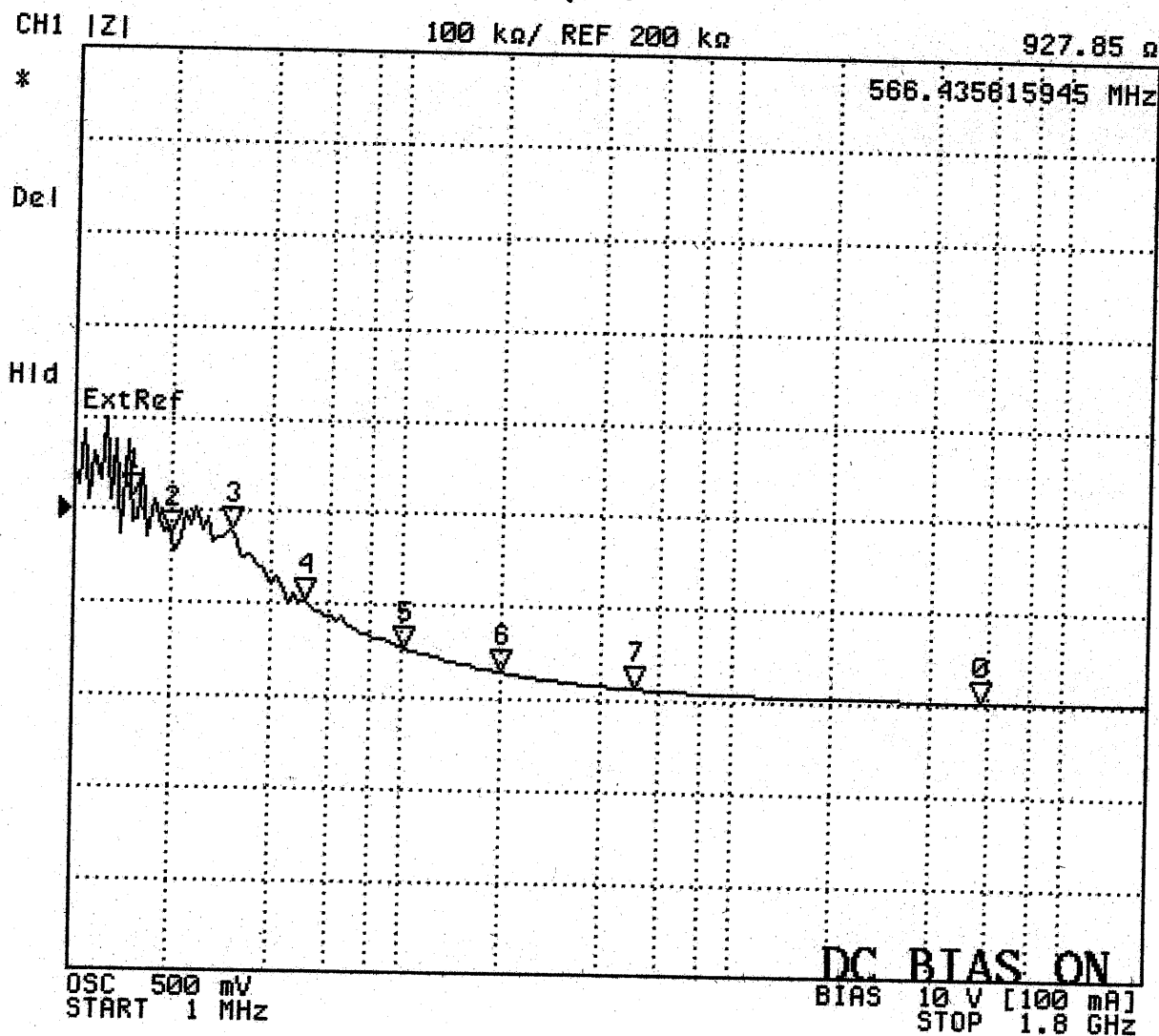
10 AUG 2000 ⑥

① FILE: 4

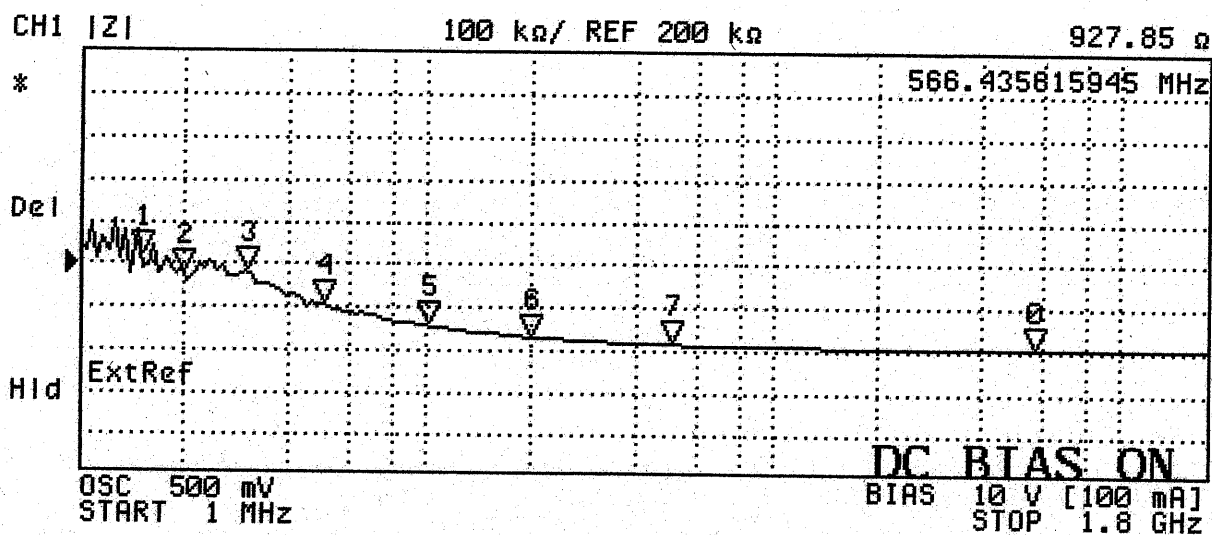
② 10V @ 100mA

③ $|Z| @ 566 \text{ MHz} \approx 928 \text{ K}\Omega$

④ BECOMING NONFUNCTIONAL @
 $T \approx 94^\circ \text{C}$



⑤ $|Z| @ 1.86 \text{ GHz} \approx 253 \text{ K}\Omega$



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

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NOTE: ① DEV#9

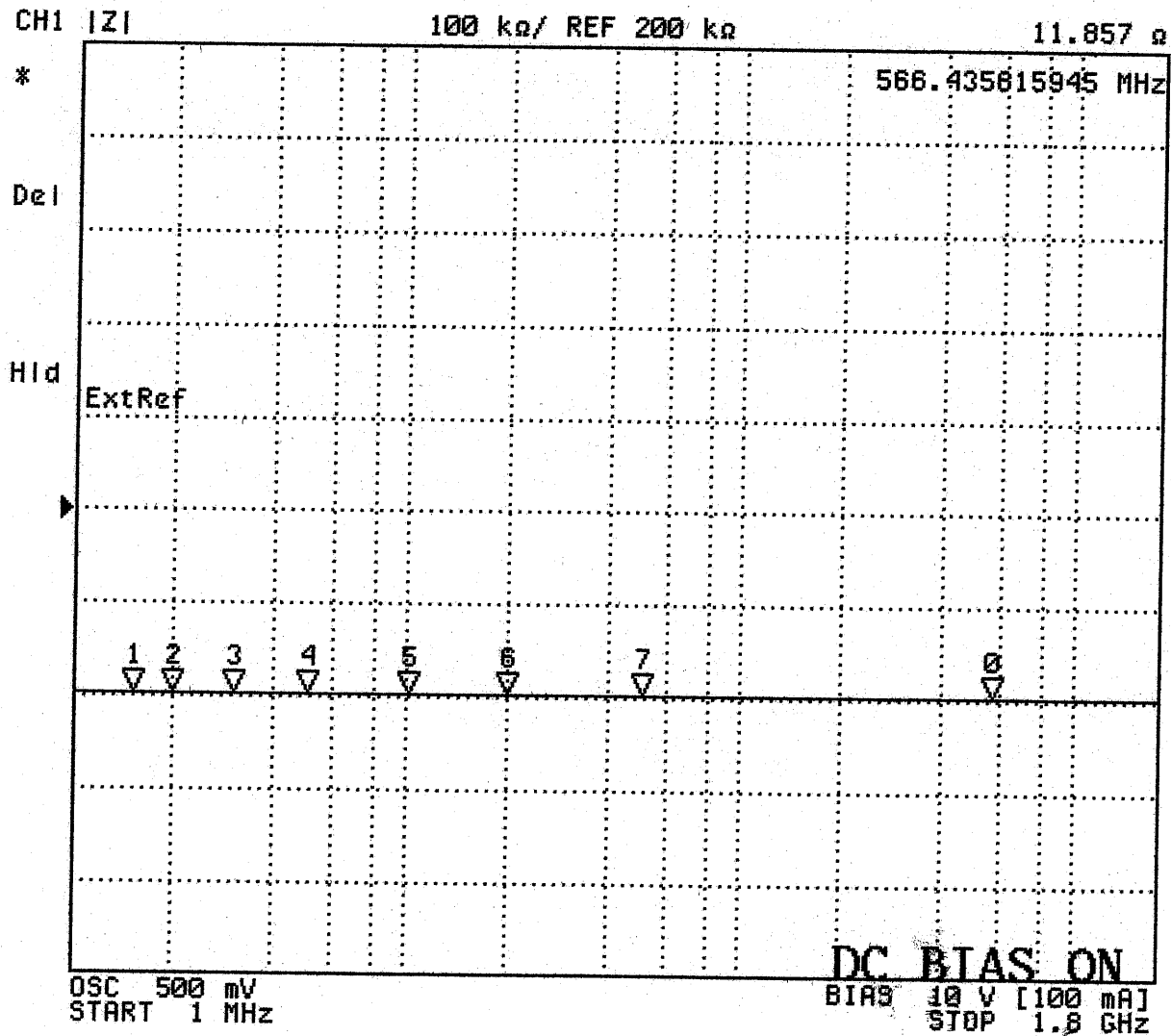
② FILE:5

③ 10V @ 100mA

④ $|Z| @ 566 \text{ MHz} \approx .012 \text{ K}\Omega$

⑤ $T \approx 94^\circ \text{C}$

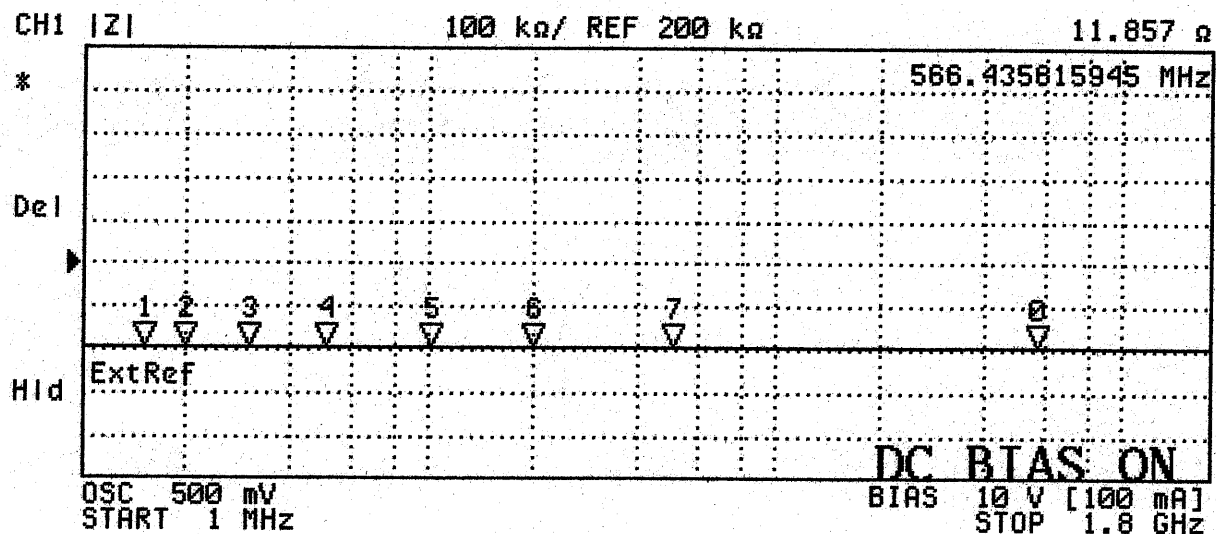
⑥ NONFUNCTIONAL



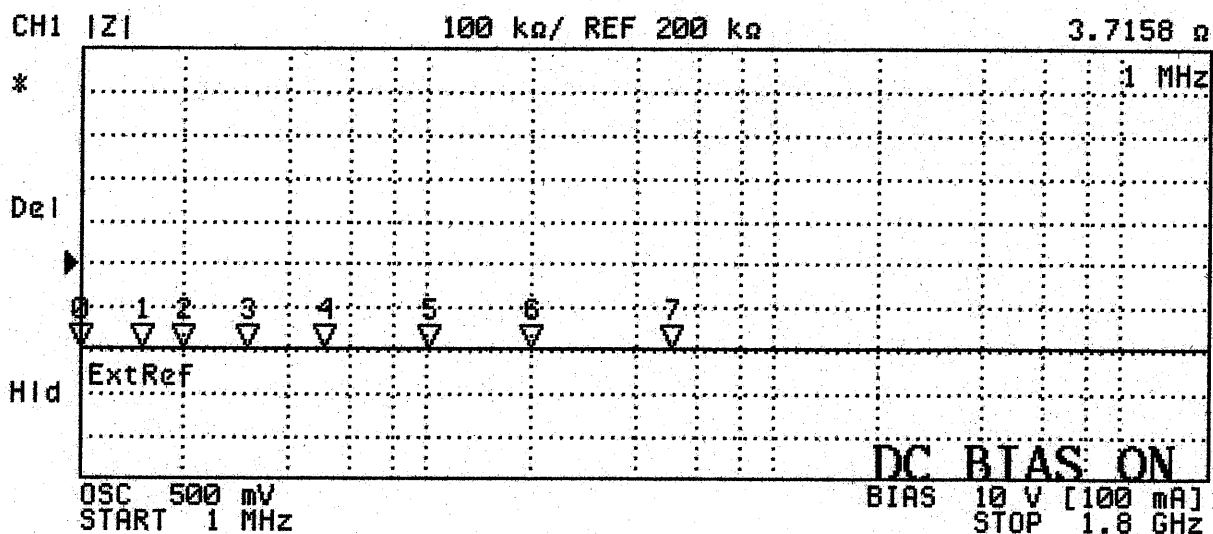
⑦ $|Z| @ 1.0 \text{ MHz} \approx .004 \text{ K}\Omega$

⑧ $|Z| @ 1.8 \text{ GHz} \approx .035 \text{ K}\Omega$

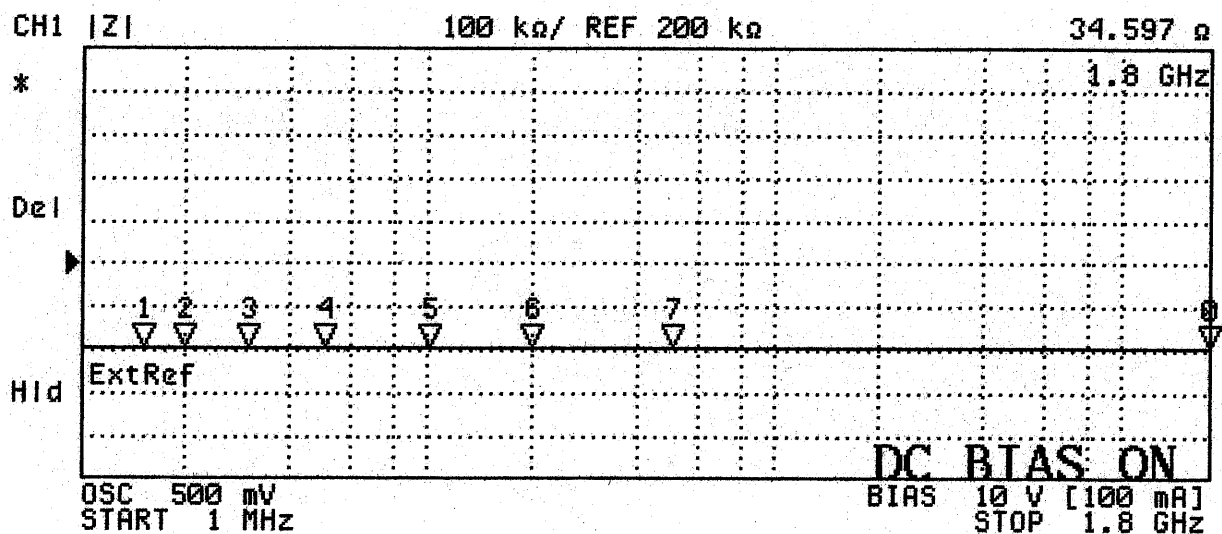
∴ PROVES DEVICE FAILS AS INDUCTOR
i.e. $|Z|$ INCREASE WITH FREQUENCY IN AN
INDUCTOR.



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: 0 OE #9

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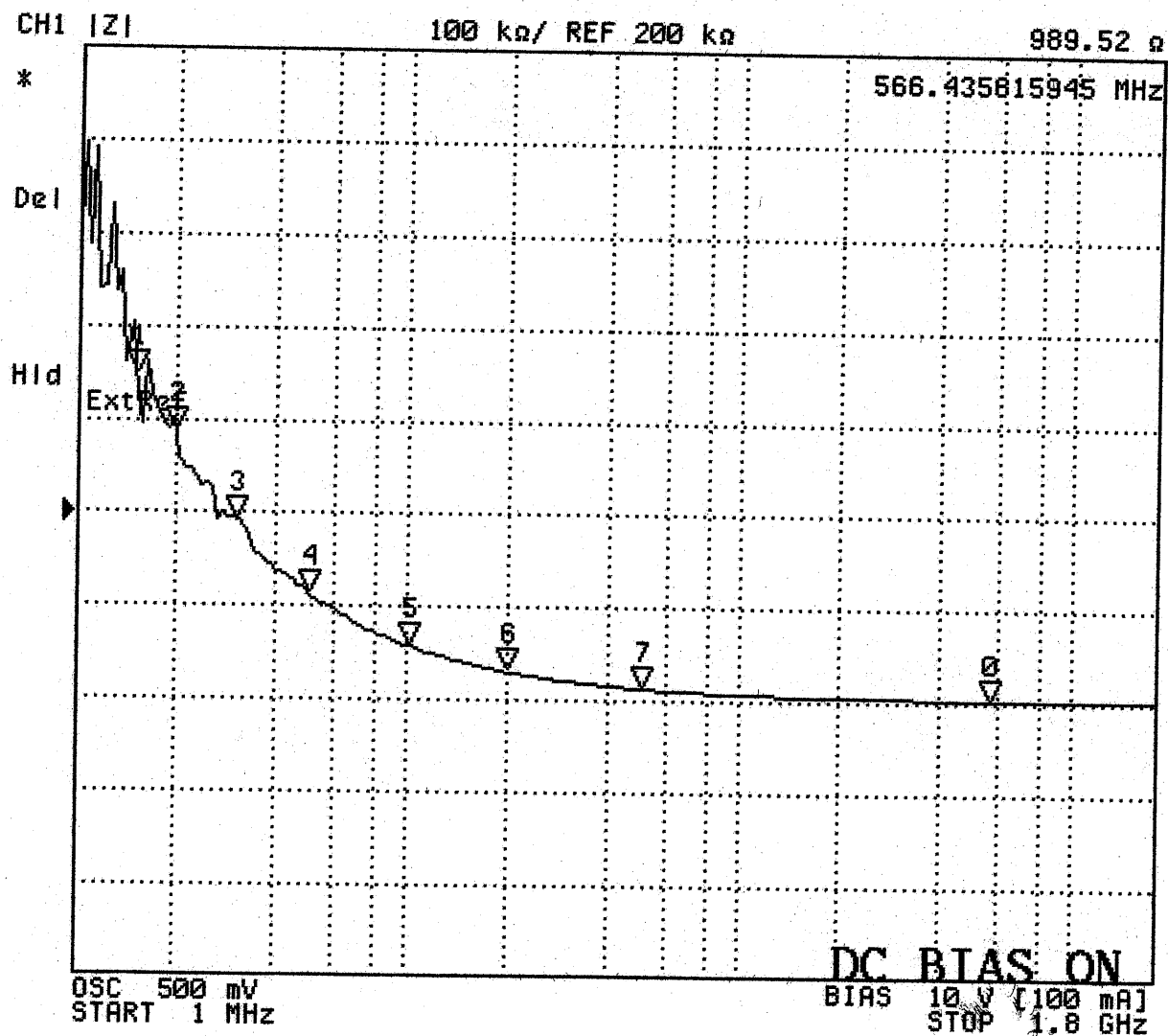
② FILE: 6

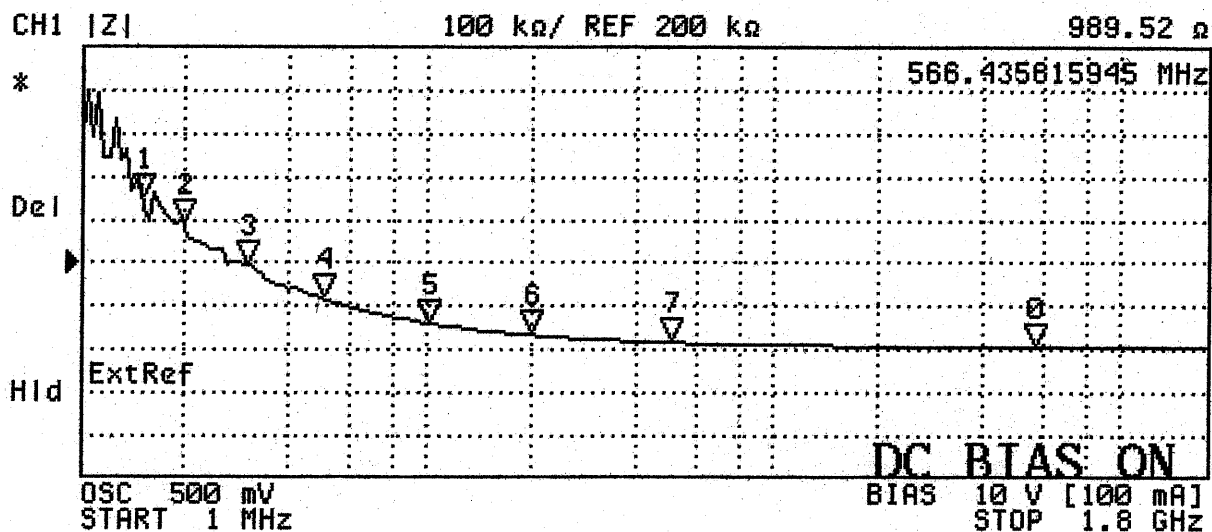
③ 10V @ 100 mA

④ $1/z @ 566 \text{ MHz} \approx .990 \text{ K}\Omega$

⑤ $T \approx 52^{\circ}\text{C}$

④ FUNCTIONAL





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

NOTE: ① DEV#9

② FILE#7

③ 10V @ 100 mA

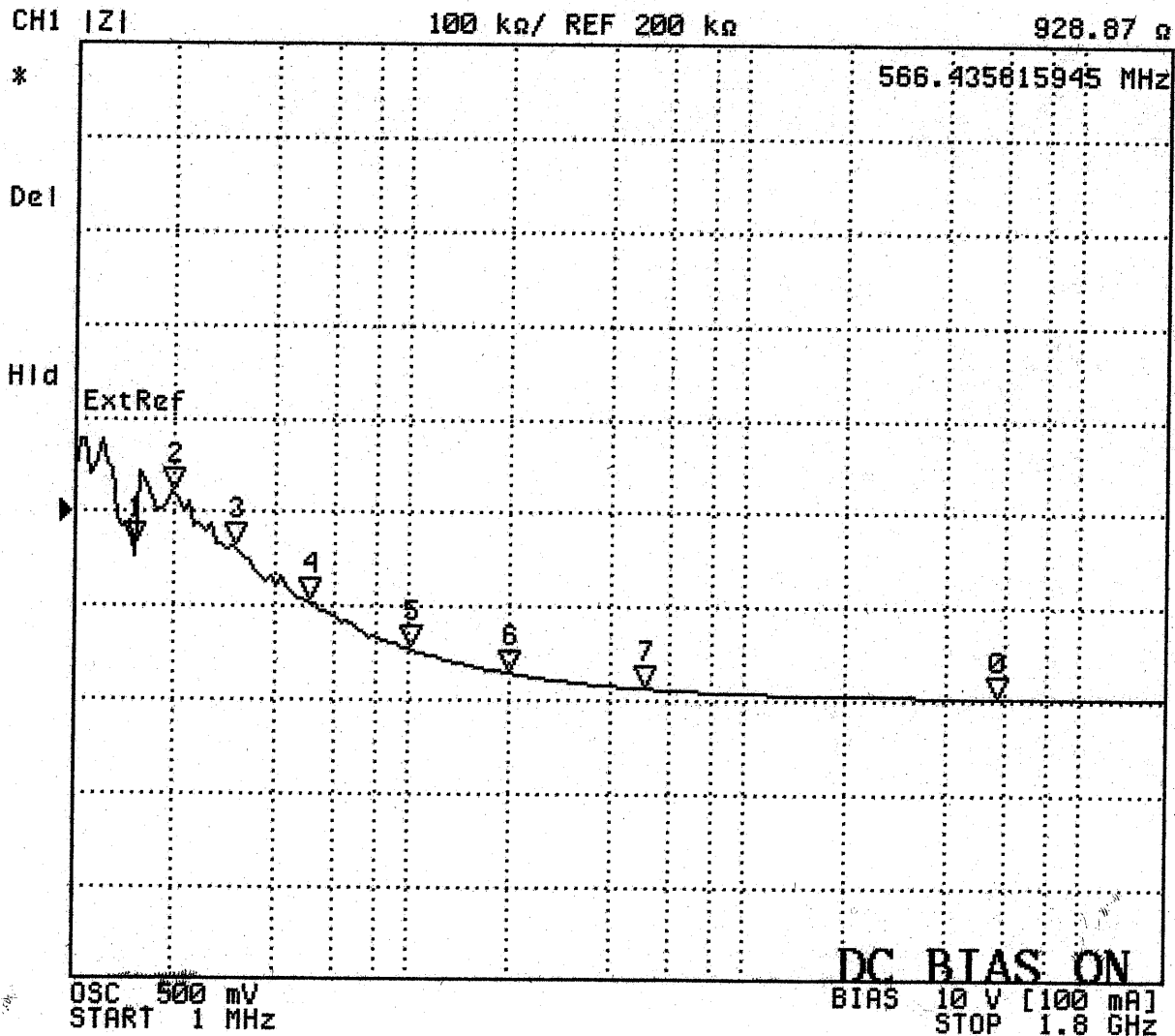
④ $|Z| @ 566 \text{ MHz} \approx .929 \text{ K}\Omega$

⑤ $T \approx 94^\circ \text{C}$

⑥ BEGINNING TO FAIL; TIME 11:40 AM, 1 AUG 2000

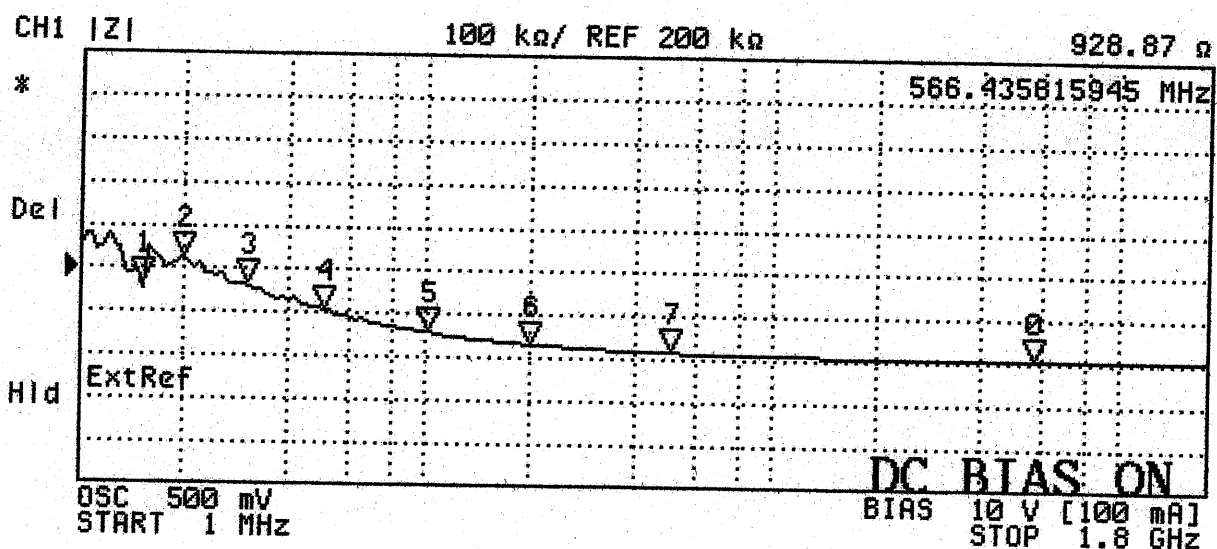
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9

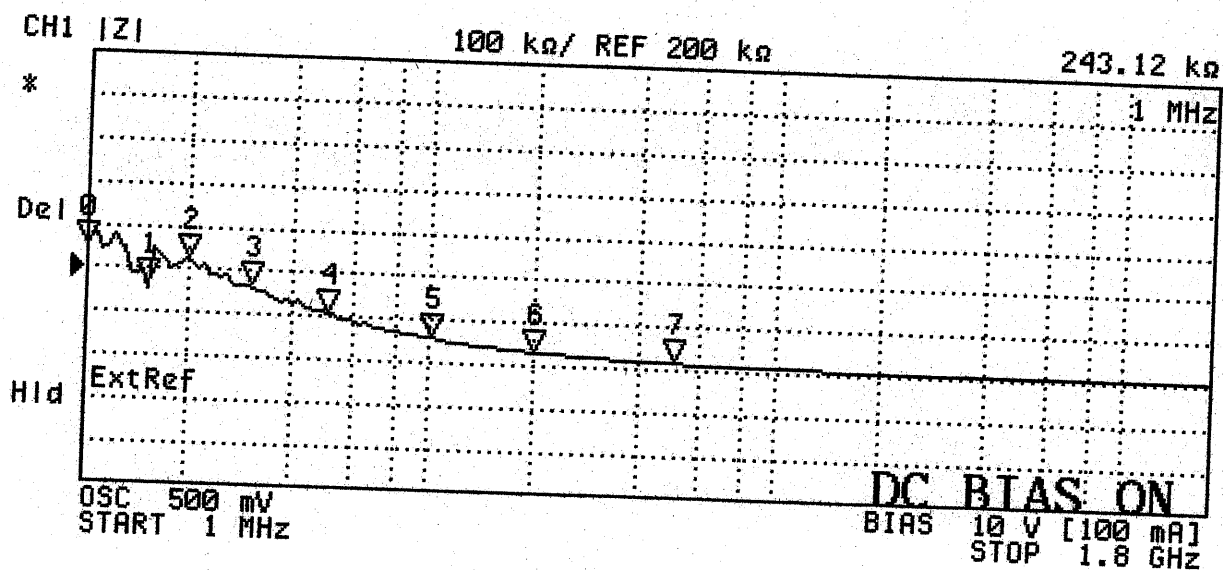


⑦ $|Z| @ 1.0 \text{ GHz} \approx 243 \text{ K}\Omega$

⑧ $|Z| @ 1.8 \text{ GHz} \approx .254 \text{ K}\Omega$



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



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