

TEST REPORT
Measuring number: 1023

HF-Page: 1
Date: 31 01 08

Cable type : CAT5E+UTP PVC 350MHz
Size : 24AWG 4 PAIR
Test-Equip. : KPA-HF 1800/4
Lot number :
Customer : TAIKO-NET
Tester : HONG THO
Cable length : 305 00
Temperature : 24 0

Attenuation

Frequency MHz	Limit dB/100m	Pair 1 dB/100m	Pair 2 dB/100m	Pair 3 dB/100m	Pair 4 dB/100m	
0 772	1 7	1.4	1.4	1.4	1.4	
1 00	1 9	1 4	1.4	1.4	1.4	
4 00	3 9	3 5	3 5	3.6	3.6	
8.00	5 5	4 8	4.8	4 9	4.8	
10 00	6 1	5.6	5.6	5 7	5.6	
16.00	7.8	6.9	6.9	7 0	6.9	
20 00	8.8	7.8	7.8	8.0	7 9	
25 00	9 9	8.8	8.8	9.0	8.9	
31 25	11 2	9.8	9 9	10 1	10.0	
62 50	16.2	14 1	14 1	14.4	14.3	
100 00	21 0	18.1	18 0	18.4	18.2	Worst case
155 00	26.8	22 7	22.8	22.8	22 9	Difference to Limit
200 00	31 0	25 7	25 7	26 1	26.9	
250 00	35.3	26.4	27 0	28.9	29 1	0 26 dB
300 00	39 2	25.6	25 2	35.6	28.7	
350 00	43 0	25 8	27 7	30 0	30.7	at 1.65 MHz

Next Near

Frequency MHz	Limit dB/100m	Pair 1 2 dB/100m	Pair 1-3 dB/100m	Pair 1-4 dB/100m	Pair 2-3 dB/100m	Pair 2-4 dB/100m	Pair 3-4 dB/100m	
0 772	72 0	78.8	93 9	91.2	85 2	82.2	98.7	
1 00	70.3	78.8	93 9	91 2	85 2	82 2	98.7	
4 00	61 3	72.6	92 6	75 7	102.3	70.4	78.3	
8.00	56.8	67 6	81.8	76.3	70 0	73.6	81 7	
10 00	55.3	61 9	75 2	66.1	73.5	68.2	78.2	
16 00	52 3	66 7	80.3	66.9	79.0	90 2	72.4	
20 00	50 8	59.6	85 0	67 1	76.9	63 2	69.4	
25 00	49.3	62 1	81 0	72 1	71.8	72.3	60.6	
31 25	47 9	67 1	73 5	60.8	76.0	57 9	63.6	
62 50	43 4	55 2	62.3	60.6	63.0	56.6	62 5	
100 00	40 3	57 0	69.8	71 0	63 7	53 9	61.5	Worst case
155 00	37 5	51 8	69 7	55.4	56.1	48.1	59 1	Difference to Limit
200 00	35.8	45.6	65 1	62 1	52 7	57.3	50.5	
250 00	34 3	48 7	57.4	53 7	54.4	46.3	59.4	3 08 dB
300 00	33 2	45 5	57.3	59 1	59 7	45 2	53.5	
350 00	32 2	38.3	57 9	53 7	55.3	55.5	43 7	at 196 34 MHz

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Powersum NEXT

Frequency MHz	Limit dB/100m	Pair 1 dB/100m	Pair 2 dB/100m	Pair 3 dB/100m	Pair 4 dB/100m
0 772	70 0	78 44	76.52	84.45	81 58
1 00	68.3	78 44	76.52	84.45	81.58
4 00	59 3	70 82	68.31	78.12	68.73
8 00	54 3	66 93	64 98	69.42	71.34
10 00	53 3	60.33	60 72	70.46	63.85
16.00	50 3	63.69	66.44	70 99	65 79
20 00	48.8	58.86	57 95	68.61	61 02
25.00	47 3	61 63	61 29	60.21	60 01
31 25	45 9	59.68	57.38	62.99	55.41
62 50	41 4	53 50	52.46	57.84	54.43
100 00	38.3	56.58	51.86	59 10	53 13
155 00	35 5	50 20	46.10	54 18	47 06
200 00	33 8	45.46	44 59	48.36	49.43
250 00	32.3	47 07	43 92	51.80	45.41
300 00	31 2	45 01	42 23	51.32	44.43
350 00	30 2	38.10	38 10	43 22	43.00

Impedance

Frequency MHz	Nominal Ohm	Pair 1 Ohm	Pair 2 Ohm	Pair 3 Ohm	Pair 4 Ohm
0 772	100	111 6	113 2	109 7	113 0
1 00	100	111.6	113 2	109 7	113 0
4 00	100	108.3	109 2	105 9	108.8
8.00	100	106.5	108 9	105 0	108.3
10 00	100	107 0	107.3	105.3	107.6
16.00	100	107.3	107 3	104 5	106.4
20 00	100	106.6	106.7	103.4	107 1
25 00	100	106 5	106.1	103.6	106.5
31 25	100	107 0	106.6	104 1	106.3
62 50	100	106.7	106.6	101.8	105 7
100 00	100	104 1	106.1	105 2	107.3
155 00	100	106 7	105.6	102 2	109 5
200 00	100	104.3	104 9	103 5	102.6
250 00	100	106 6	105.3	102.2	105.8
300 00	100	106.6	103.3	106.6	104 7
350 00	100	108.7	105 2	101 9	101 2

Worst case
Difference to Limit
1 78 Ohm
at 0 77 MHz

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Return Loss RL

Frequency MHz	Min dB	Pair 1 dB	Pair 2 dB	Pair 3 dB	Pair 4 dB
1 00	20 0	23 7	22.8	24.8	22 9
4 00	23 0	27.4	26.6	29 7	27 0
8.00	24 5	29 8	27 1	31.8	27.6
10 00	25 0	29 1	28.8	31 5	28.5
16.00	25 0	29 0	28.9	32 9	30 0
20 00	25 0	29 9	29.8	35 2	29.3
25 00	24 3	30 1	30.6	34 7	30.0
31 25	23.6	29.4	29.8	33 9	30.2
62 50	21 5	29 5	29.6	40 9	30 7
100 00	20 1	29.8	27.5	29.5	27 7
155 00	18 8	27 5	28.2	33.8	26.4
200 00	18.0	29.4	26.5	30 7	28.1
250 00	17.3	29.6	24.4	26 5	27.8
300 00	16.8	25 5	26.0	25 9	24 1
350 00	16.3	24.3	26.1	33 8	26.3

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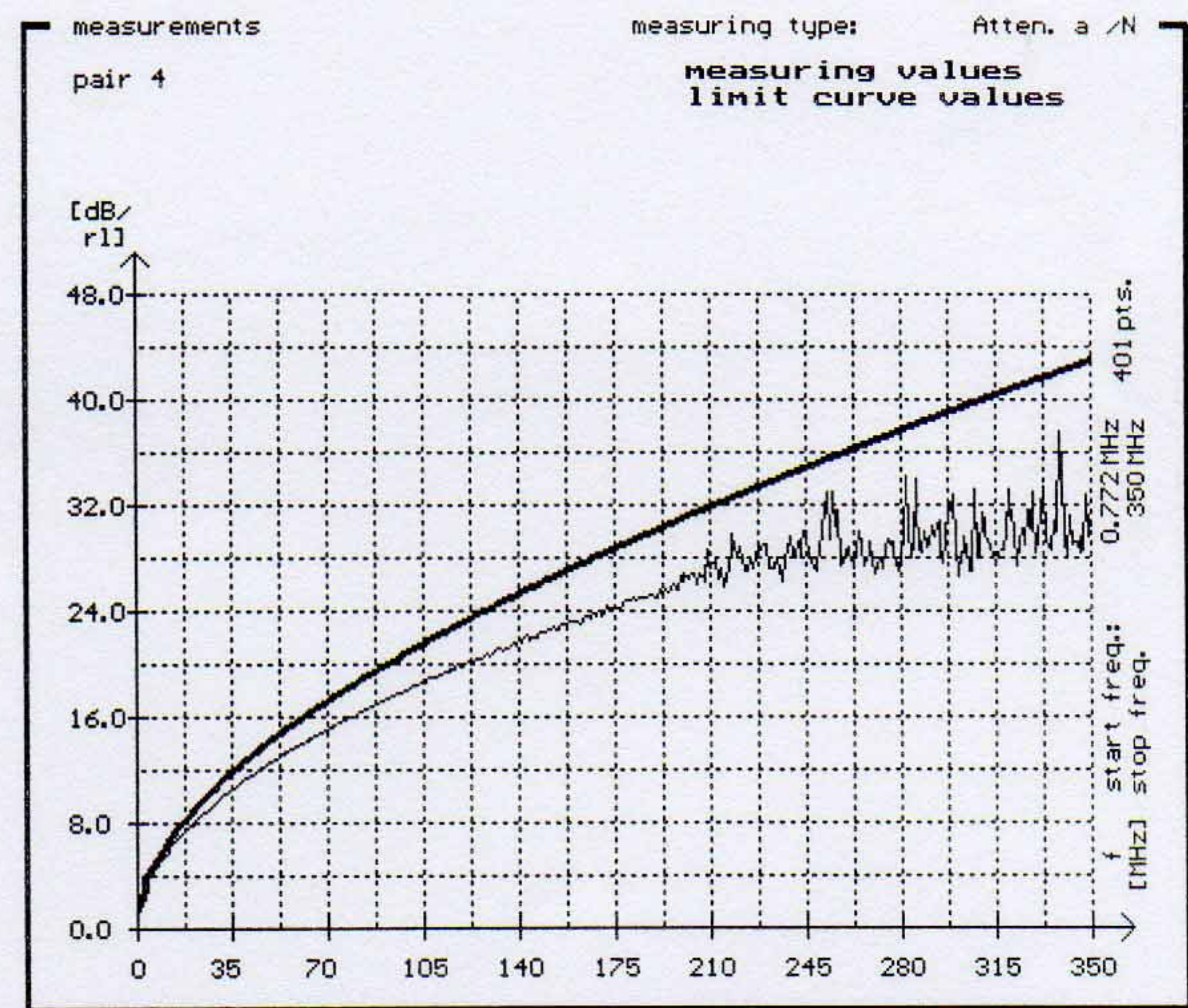
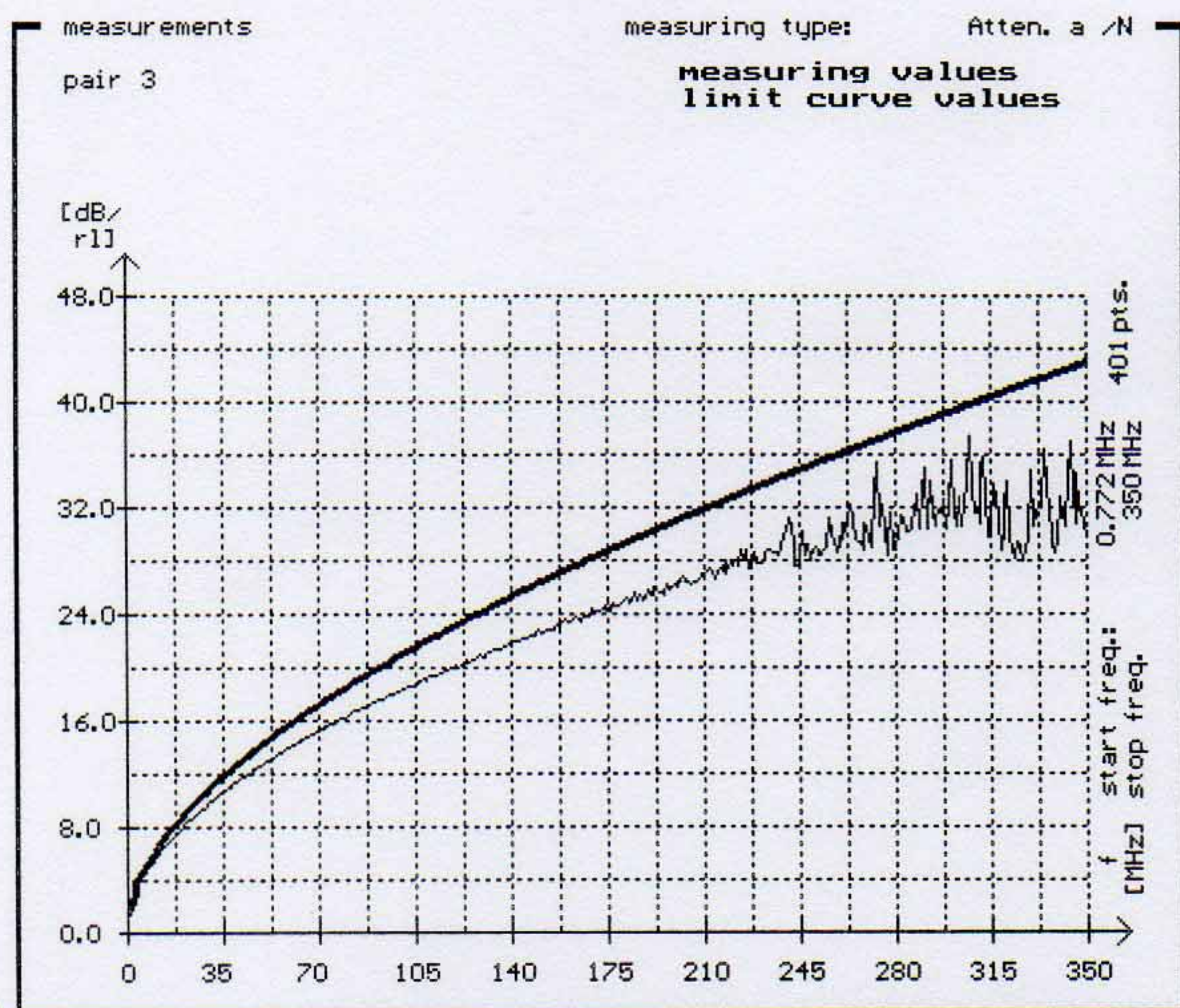
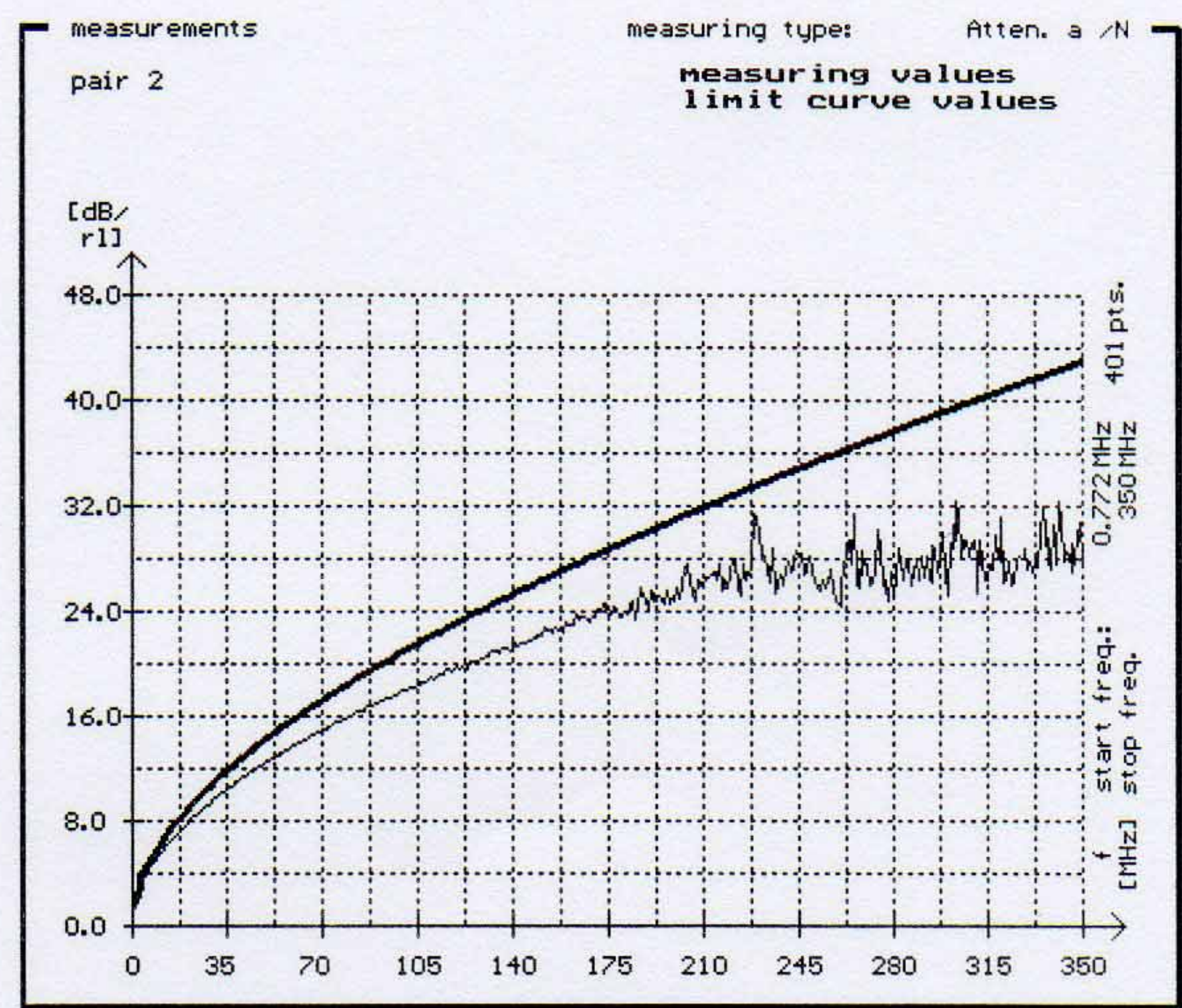
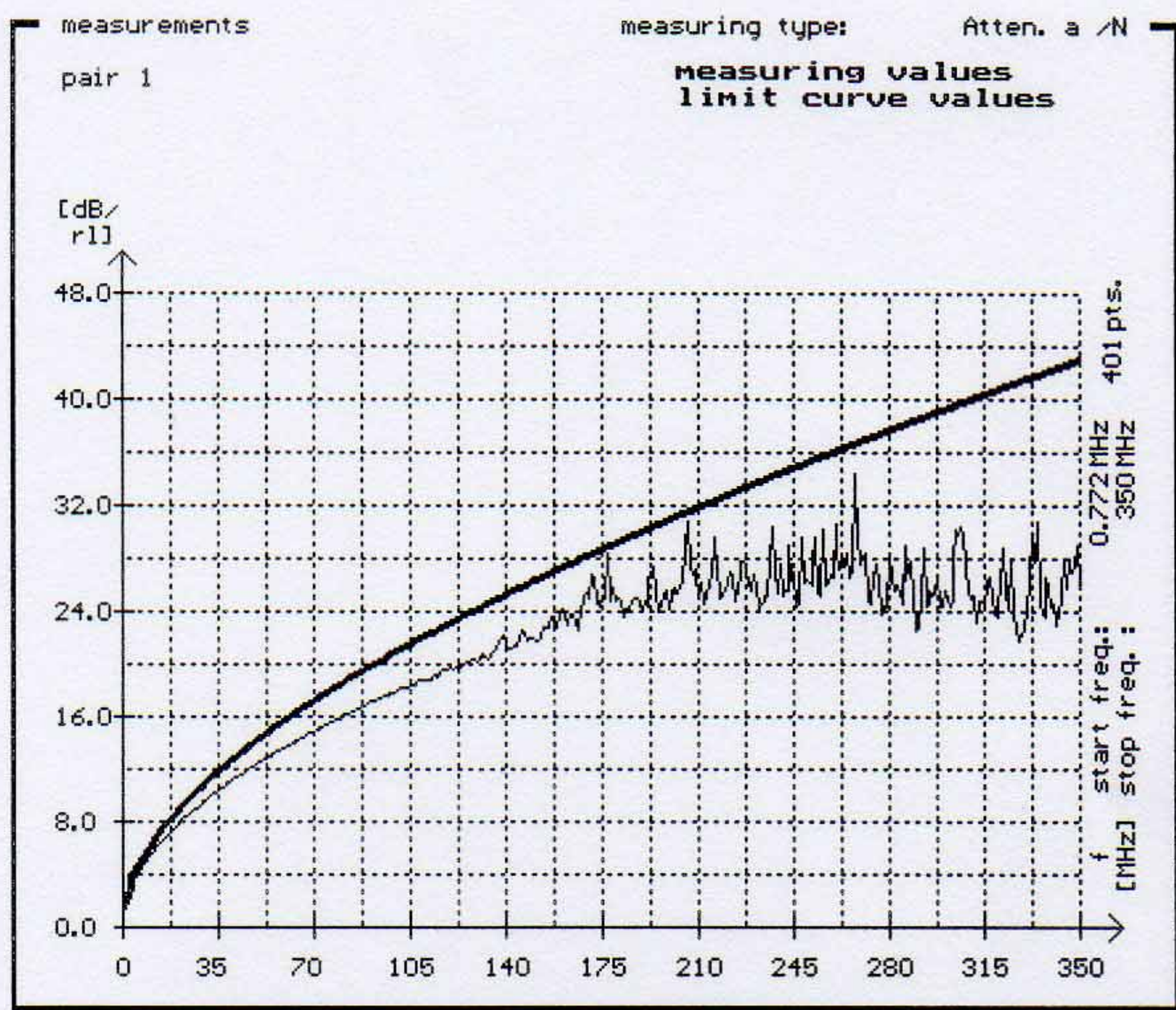
Attenuation-Crosstalk-Ratio ACR

Frequency MHz	Limit dB/100m	Pair 1-2 dB/100m	Pair 1-3 dB/100m	Pair 1-4 dB/100m	Pair 2-3 dB/100m	Pair 2-4 dB/100m	Pair 3-4 dB/100m
			--		--		
0 772	72.3	77 5	92.6	90 0	83 9	80.9	97 5
1 0	70 4	77 5	92.6	90 0	83.9	80 9	97 5
4 0	59.4	69.4	89 5	72 5	99 1	67 2	75 0
8 0	53.3	63.3	77.5	72 0	65.6	69.3	77.3
10 0	51 2	56 9	70 2	61 1	68.5	63 2	73 1
16.0	46 5	60 5	74 2	60 7	72.8	84 0	66.0
20 0	44 0	52.6	78.0	60 1	69 9	56.1	62 2
25 0	41.4	54 2	73 1	64 2	63.8	64.4	52.4
31 25	38.7	58.3	64 7	51 9	67 1	49 1	54.6
62 5	29 2	42 5	49 7	47 9	50.3	43 9	49 5
100 0	21 3	40 7	53 5	54.8	47 5	37 7	45 0
155 0	12 7	31.4	49.3	34 9	35.6	27.6	38.5
200 0	6 8	22 5	42 0	39 0	29 5	34 1	27 0
250 0	1 0	24 9	33.6	29 9	30.1	22 0	33.4
300 0		22.4	34.3	36.0	37 0	22 5	21.5
350 0		15 0	34 7	30 5	30.4	30.6	16.6

Powersum ACR

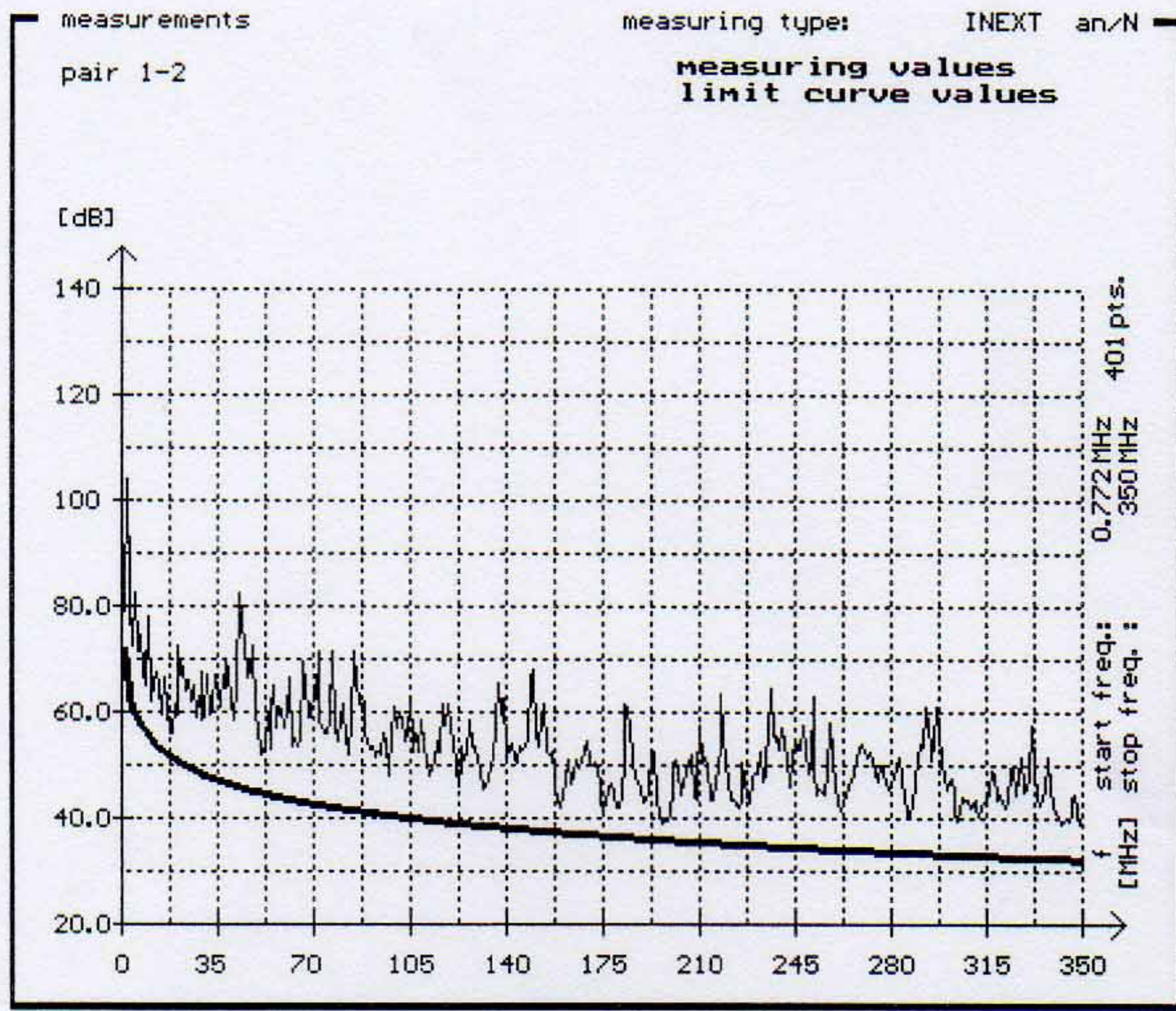
Frequency MHz	Limit dB/100m	Pair 1 dB/100m	Pair 2 dB/100m	Pair 3 dB/100m	Pair 4 dB/100m
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1 00	66 4	77 2	75.3	83 2	80.3
4 00	55.4	67 7	65 1	74 9	65 5
8 00	49 3	62 6	60.6	65.0	67 0
10 00	47 2	55.3	55 7	65.3	58.8
16.00	42 5	57 5	60 2	64.6	59 5
20 00	40 0	51 9	50 9	61.4	53.9
25 00	37 4	53 7	53.3	52 1	52.0
31 25	34 7	50.8	48 5	53 9	46.5
62 50	25 2	40 8	39.8	44 9	41.6
100 00	17.3	40.3	35.6	42 5	36.7
155 00	8.7	29.8	25.6	33.6	26.4
200 00	2.8	22 3	21.4	24 9	25 2
250 00		23.3	19 7	25.8	19 2
300 00		22 0	19 5	19.3	18.6
350 00		14 9	13 2	16.2	15.3

Attenuation

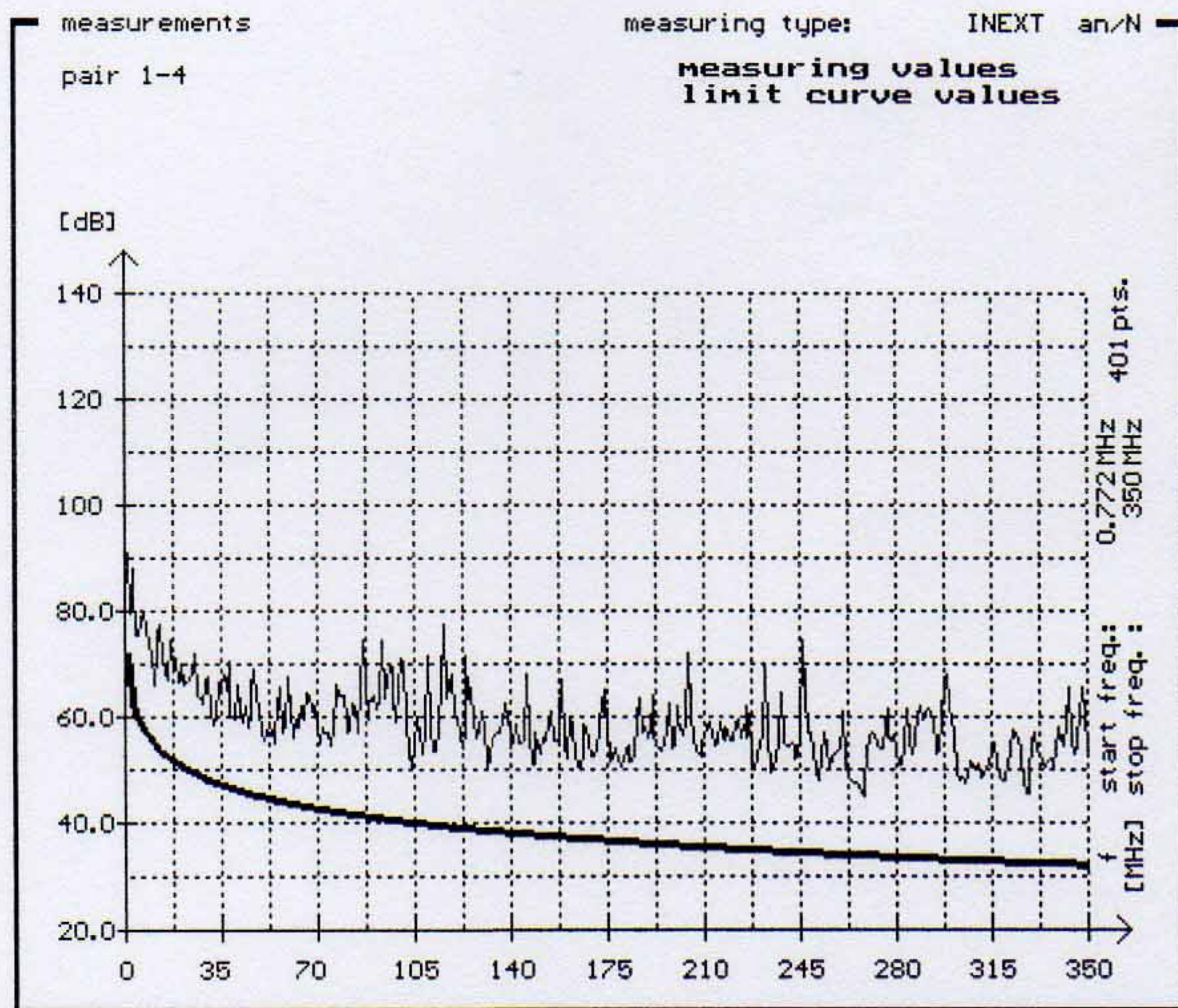
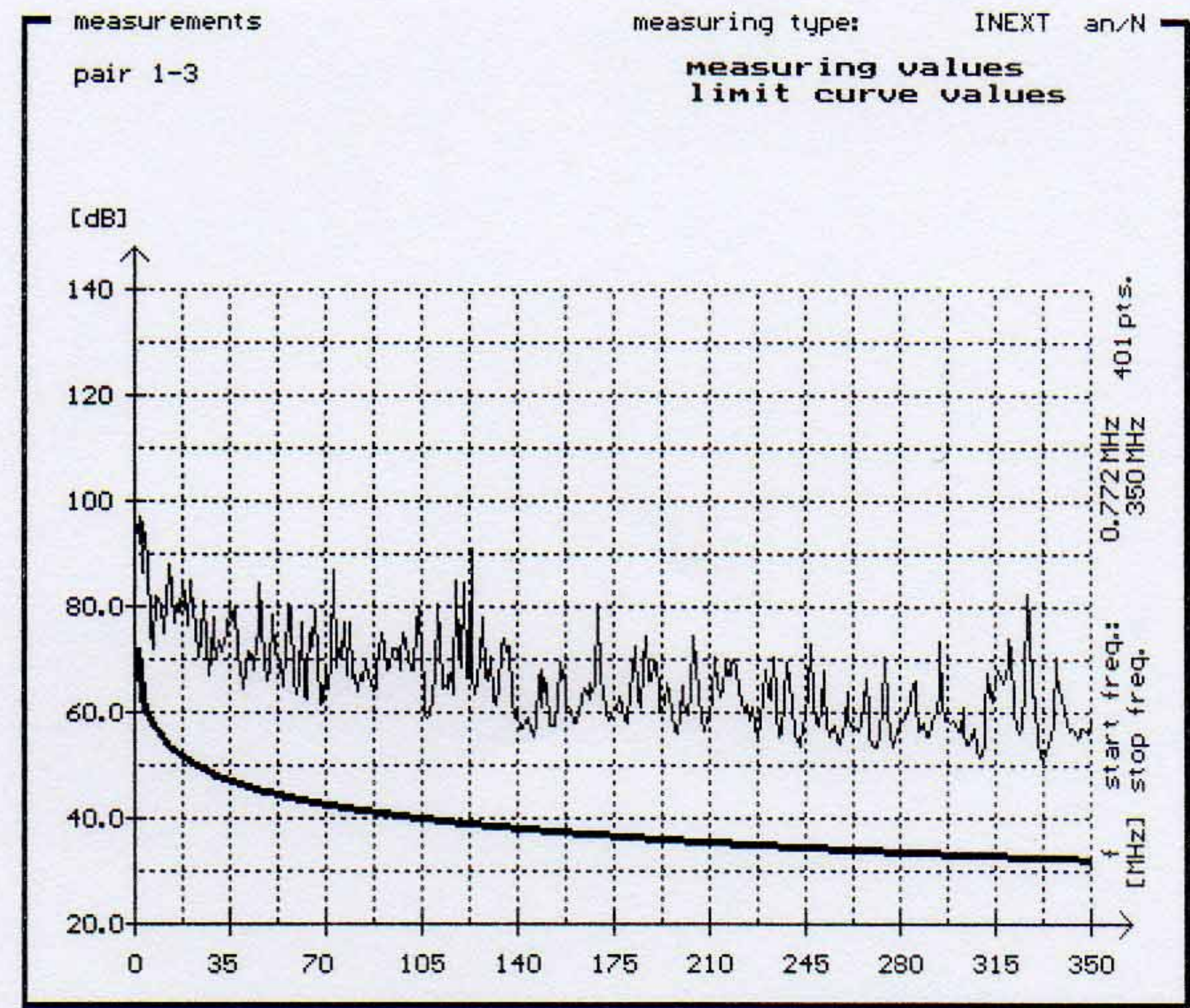


Near end crosstalk Next

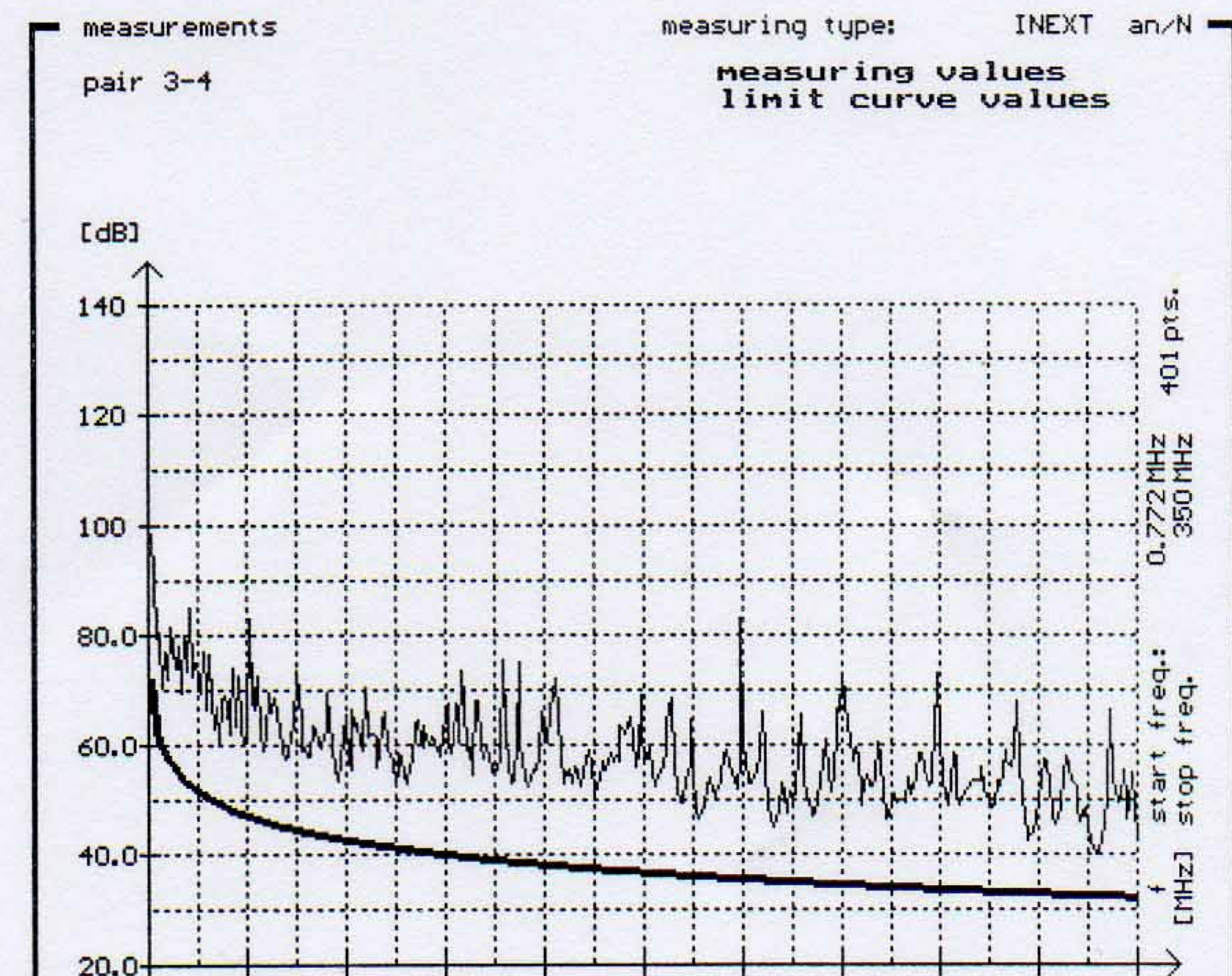
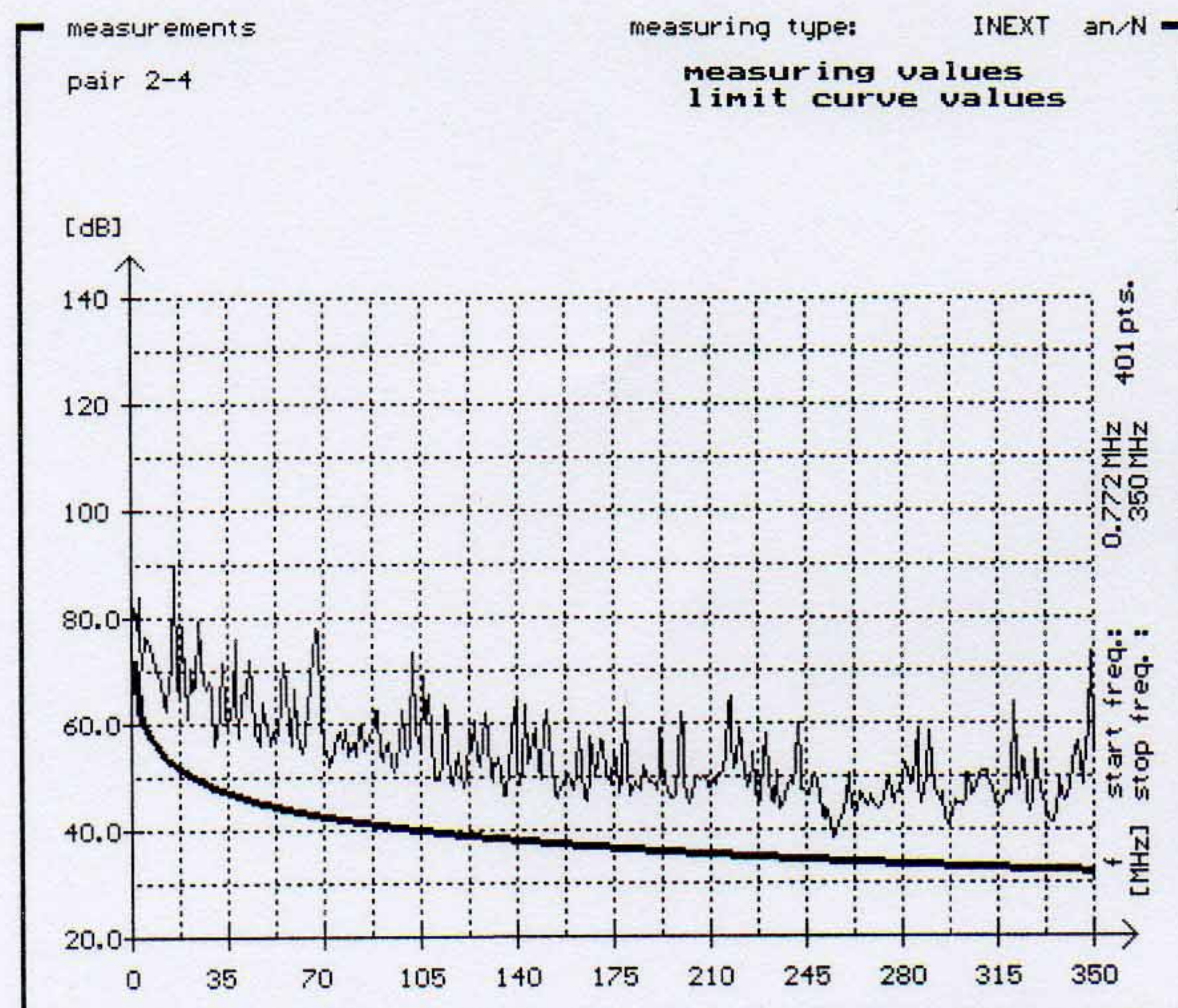
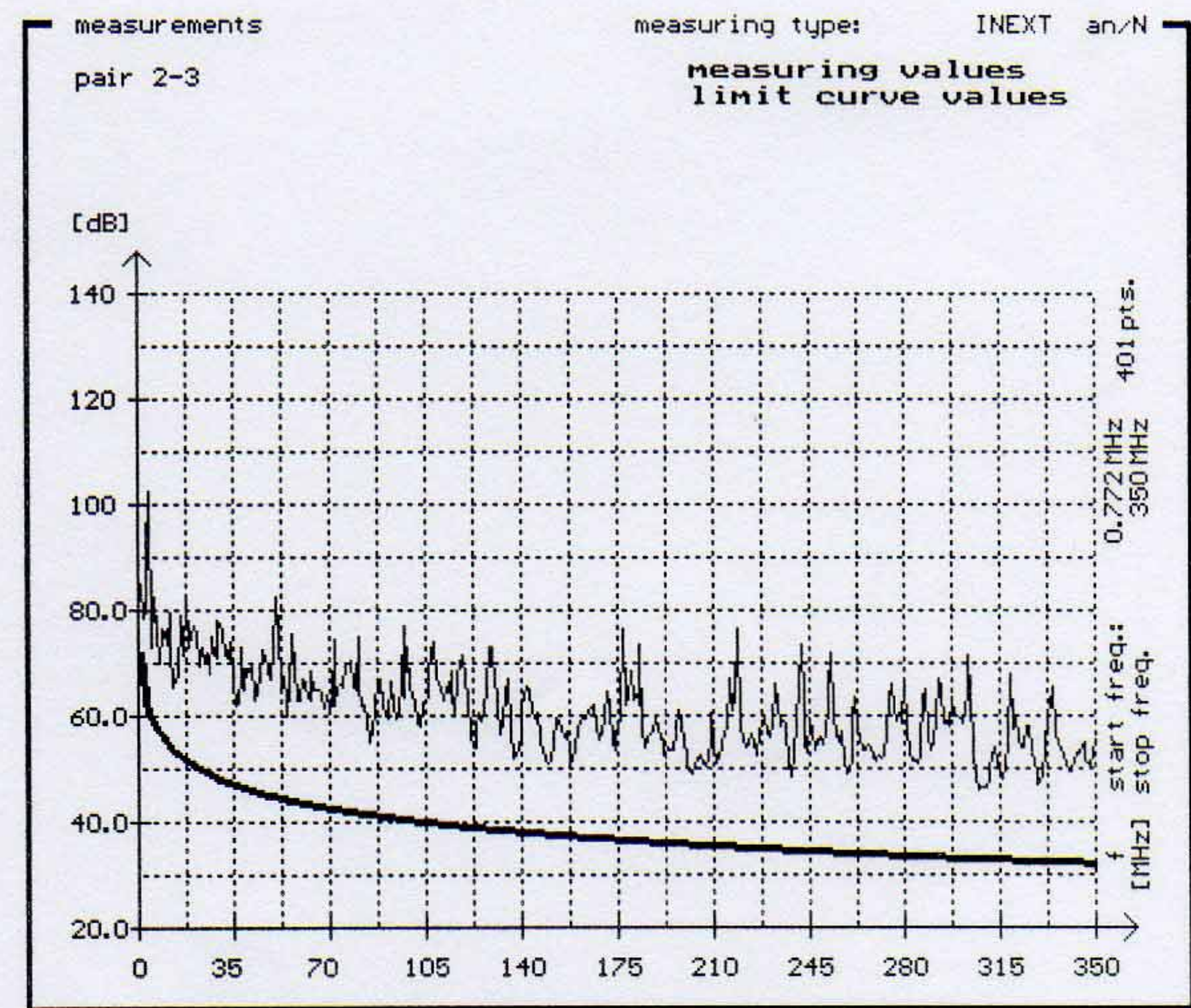
AN_N Messwerte Pair 1/2 NEAR
AN_N Messwerte Pair 1/3 NEAR



AN_N Messwerte Pair 1/4 NEAR
AN_N Messwerte Pair 2/3 NEAR



AN_N Messwerte Pair 2/4 NEAR
AN_N Messwerte Pair 3/4 NEAR



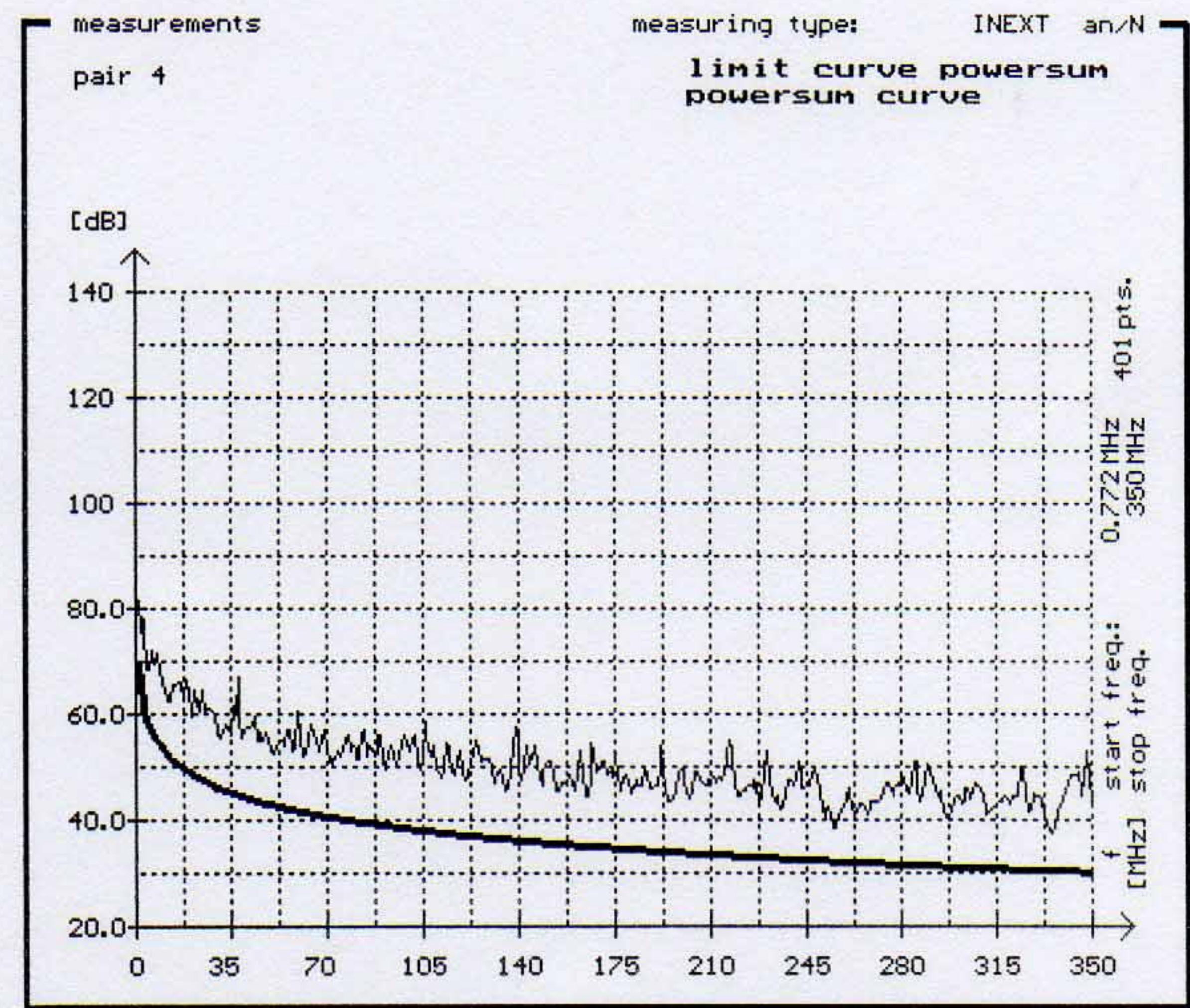
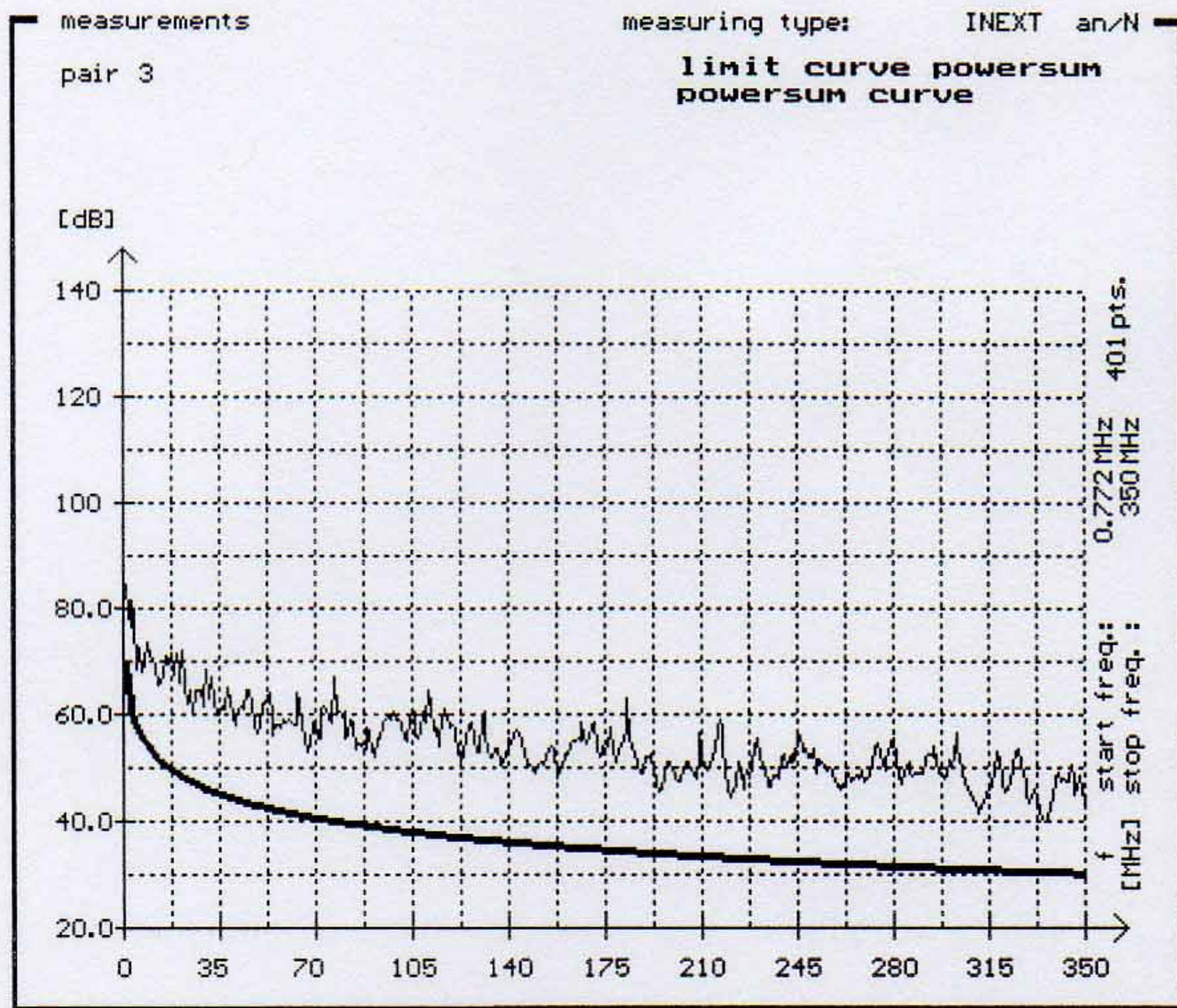
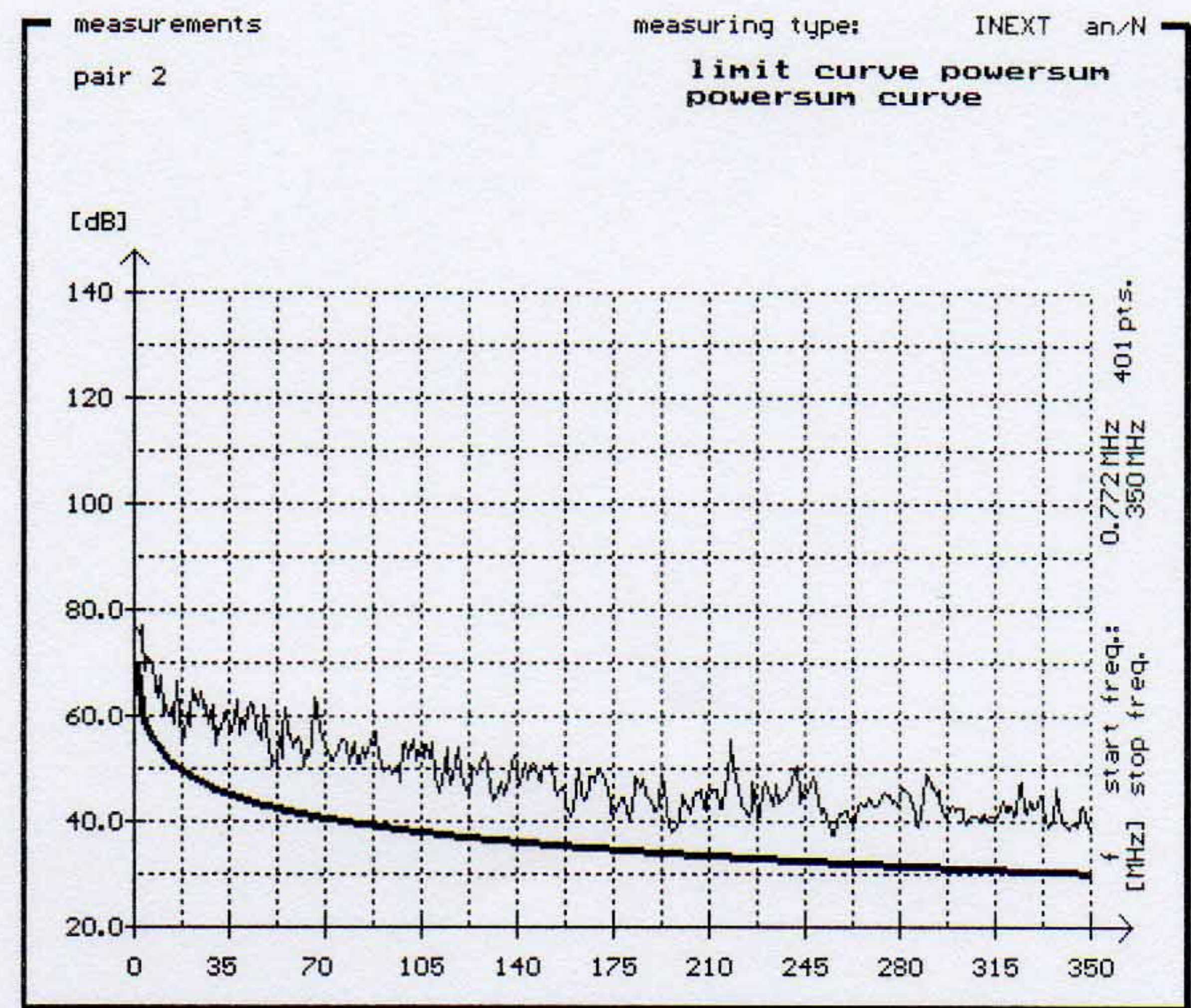
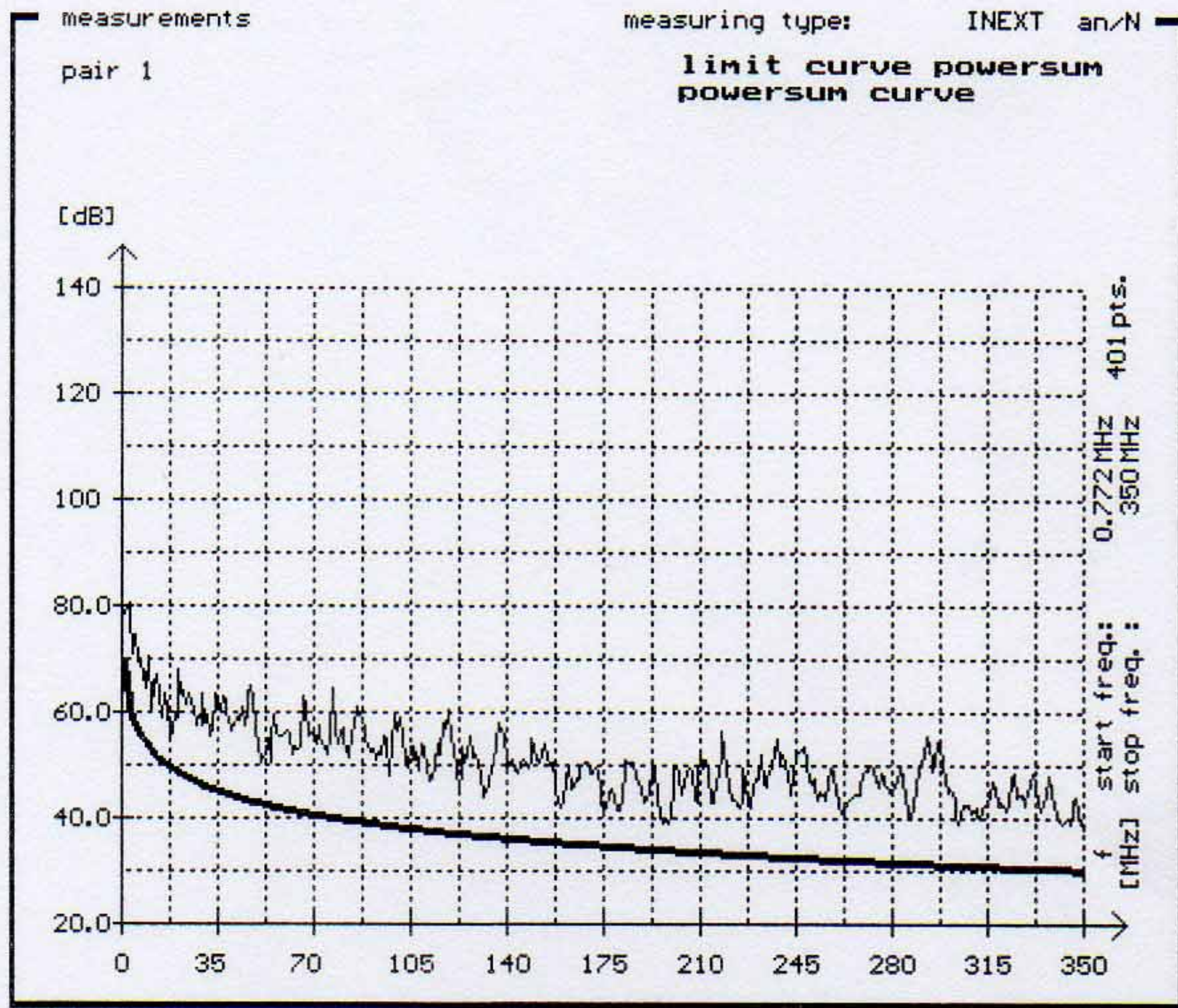
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PS NEXT Near

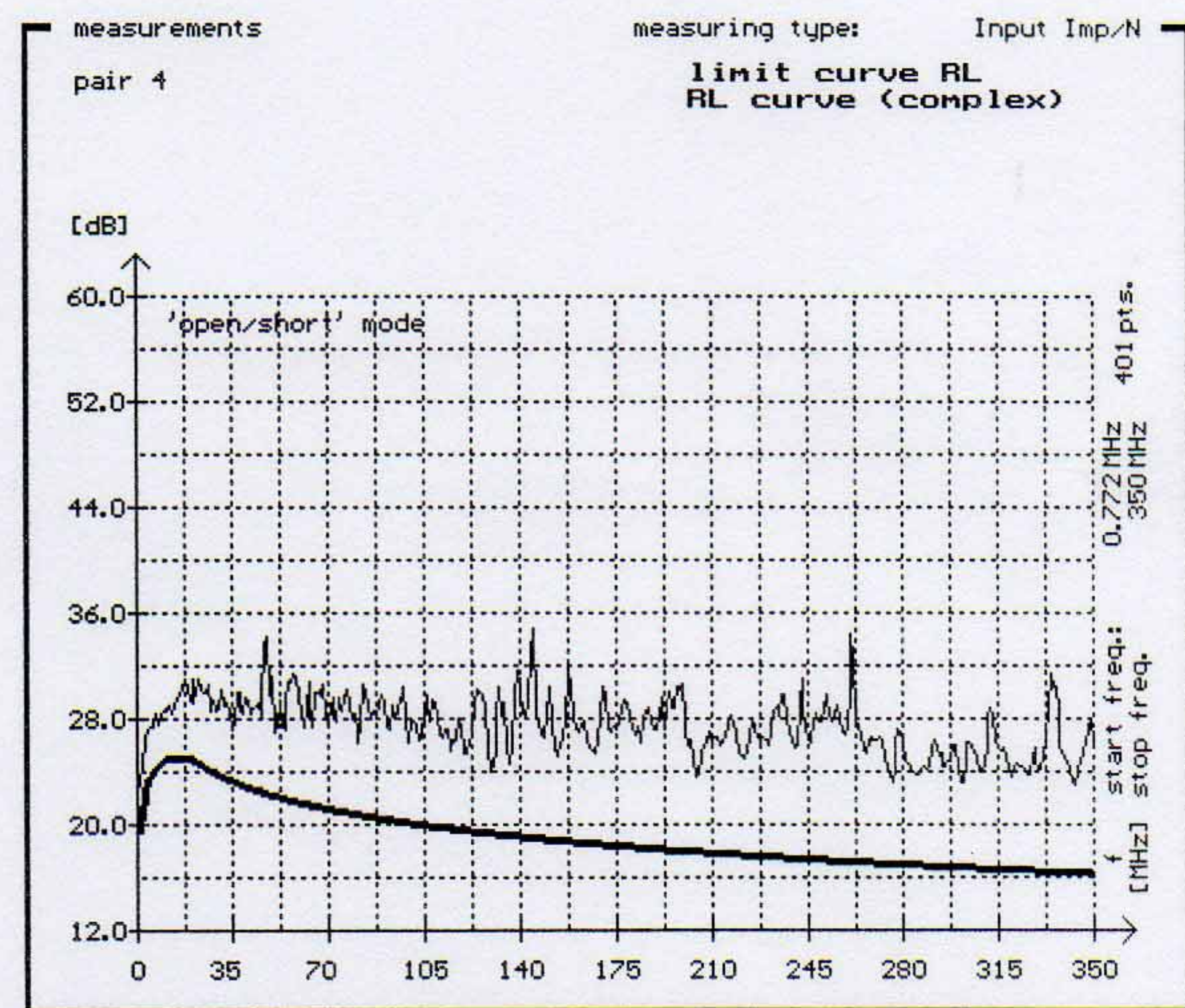
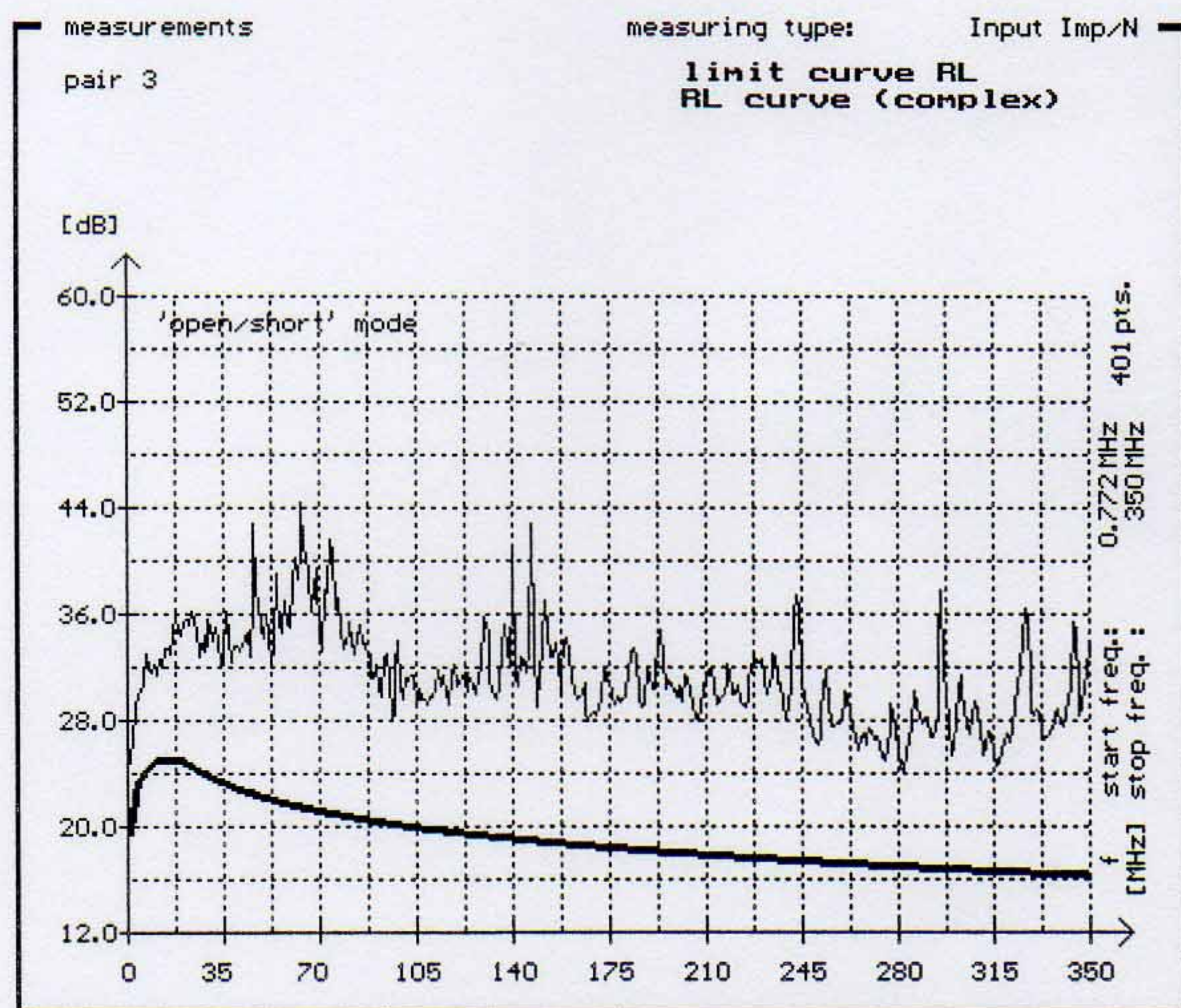
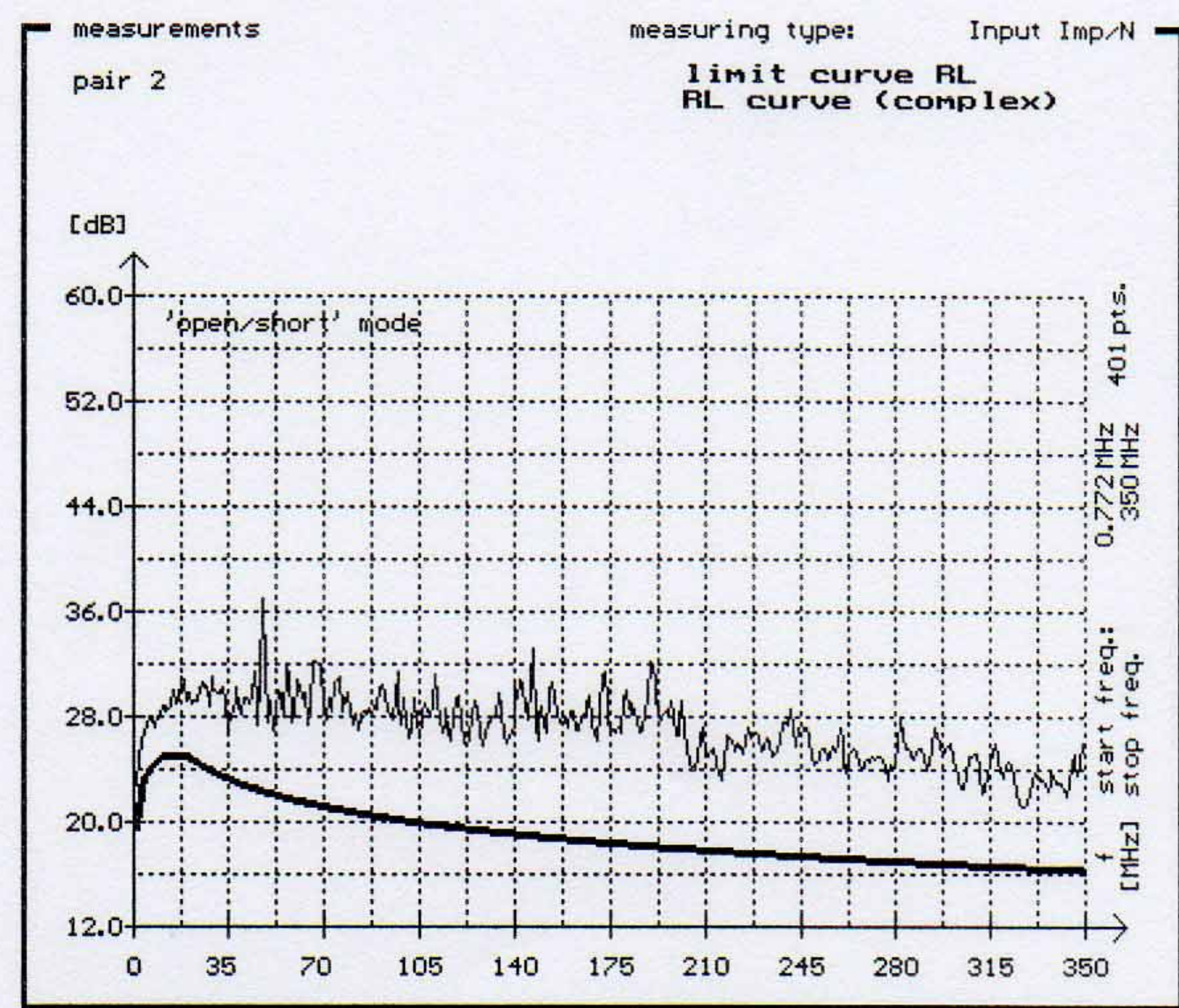
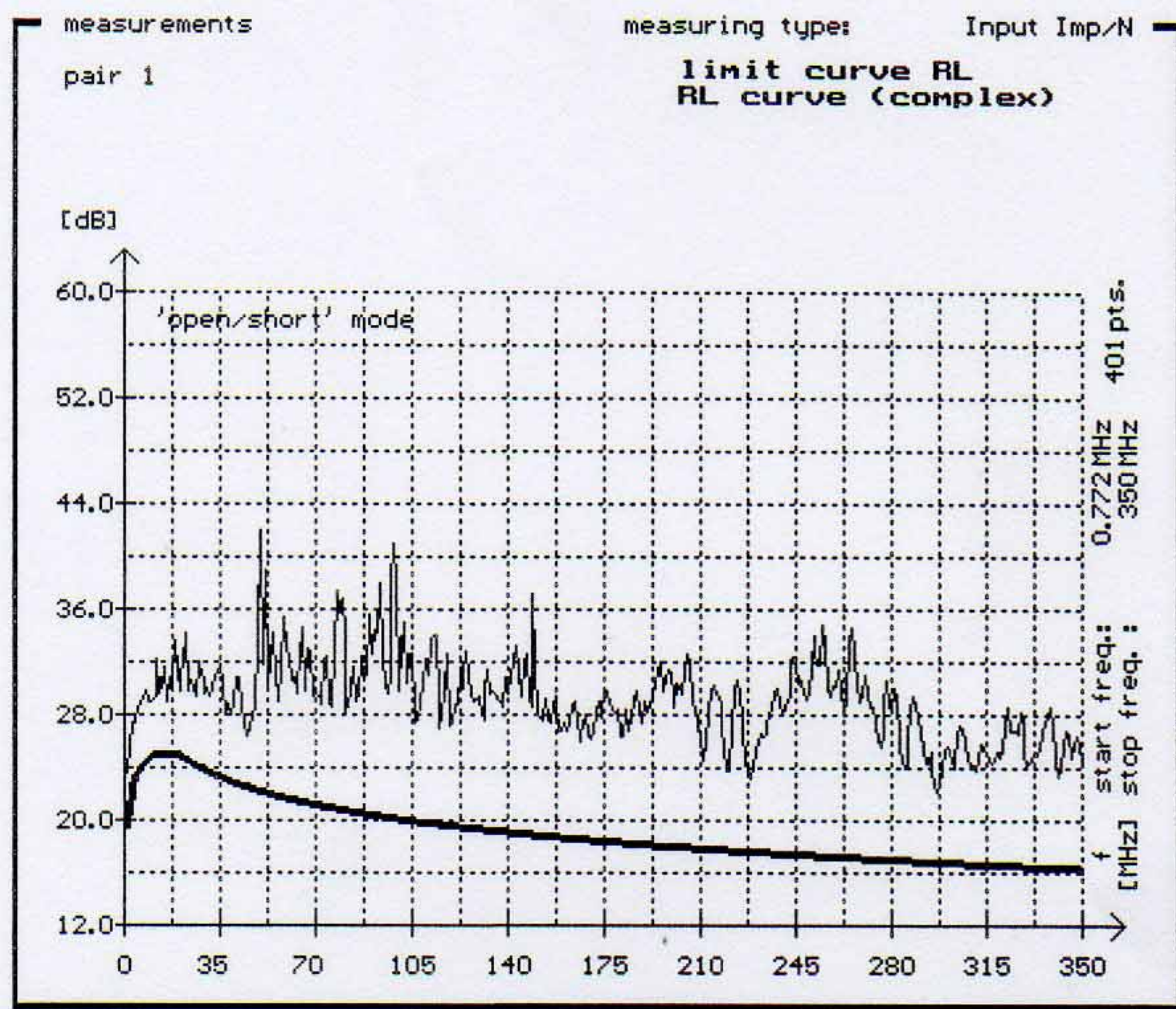


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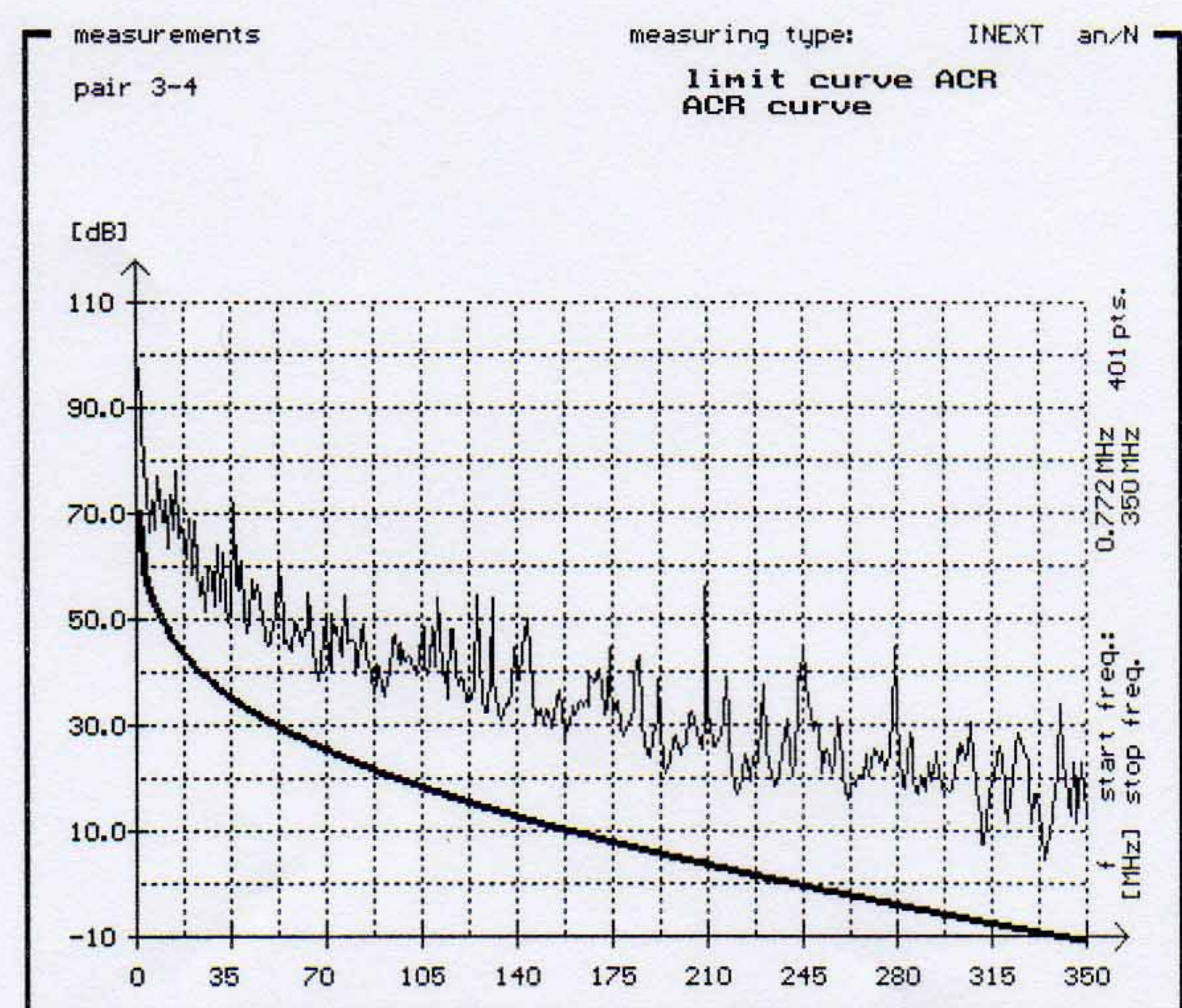
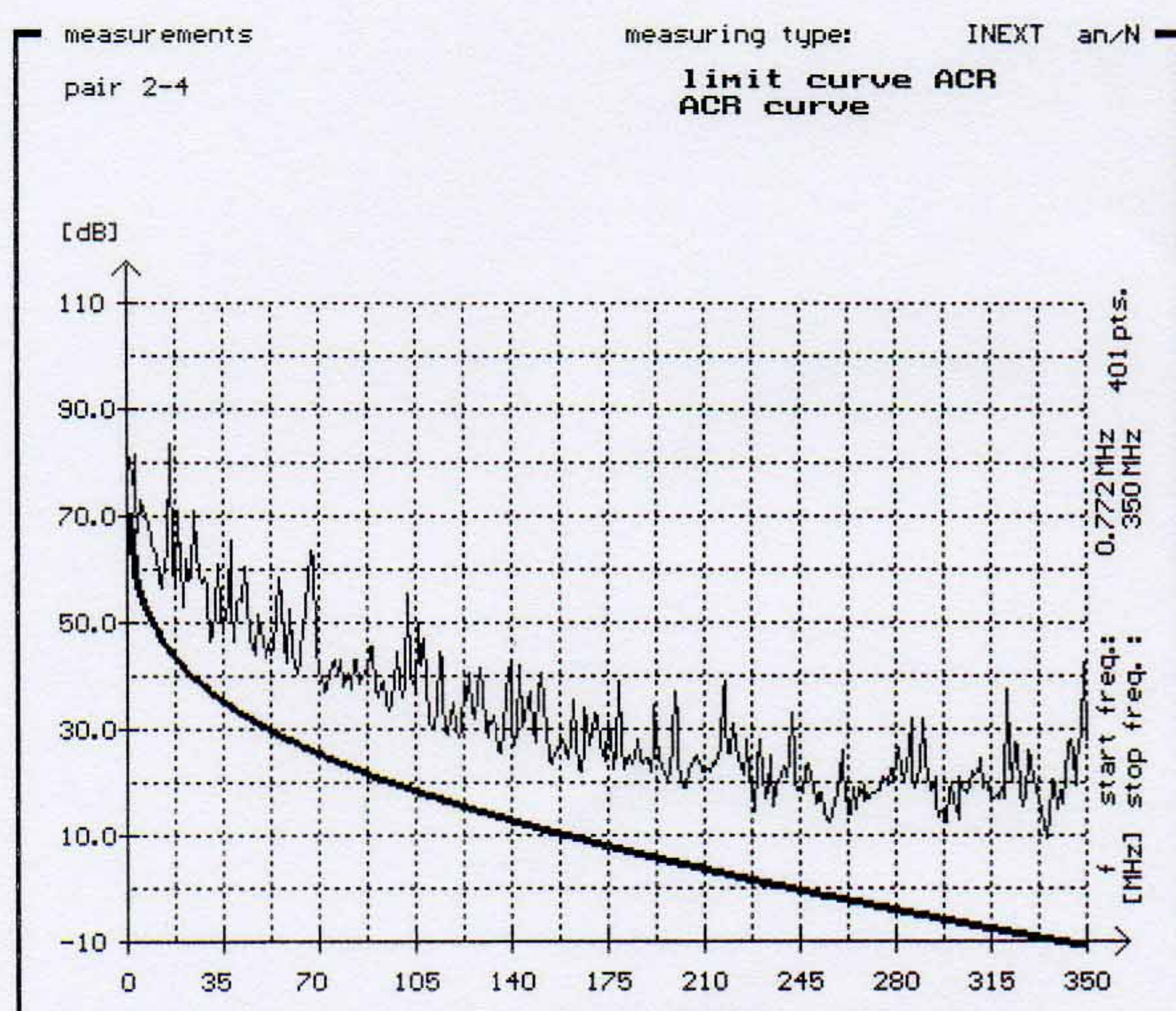
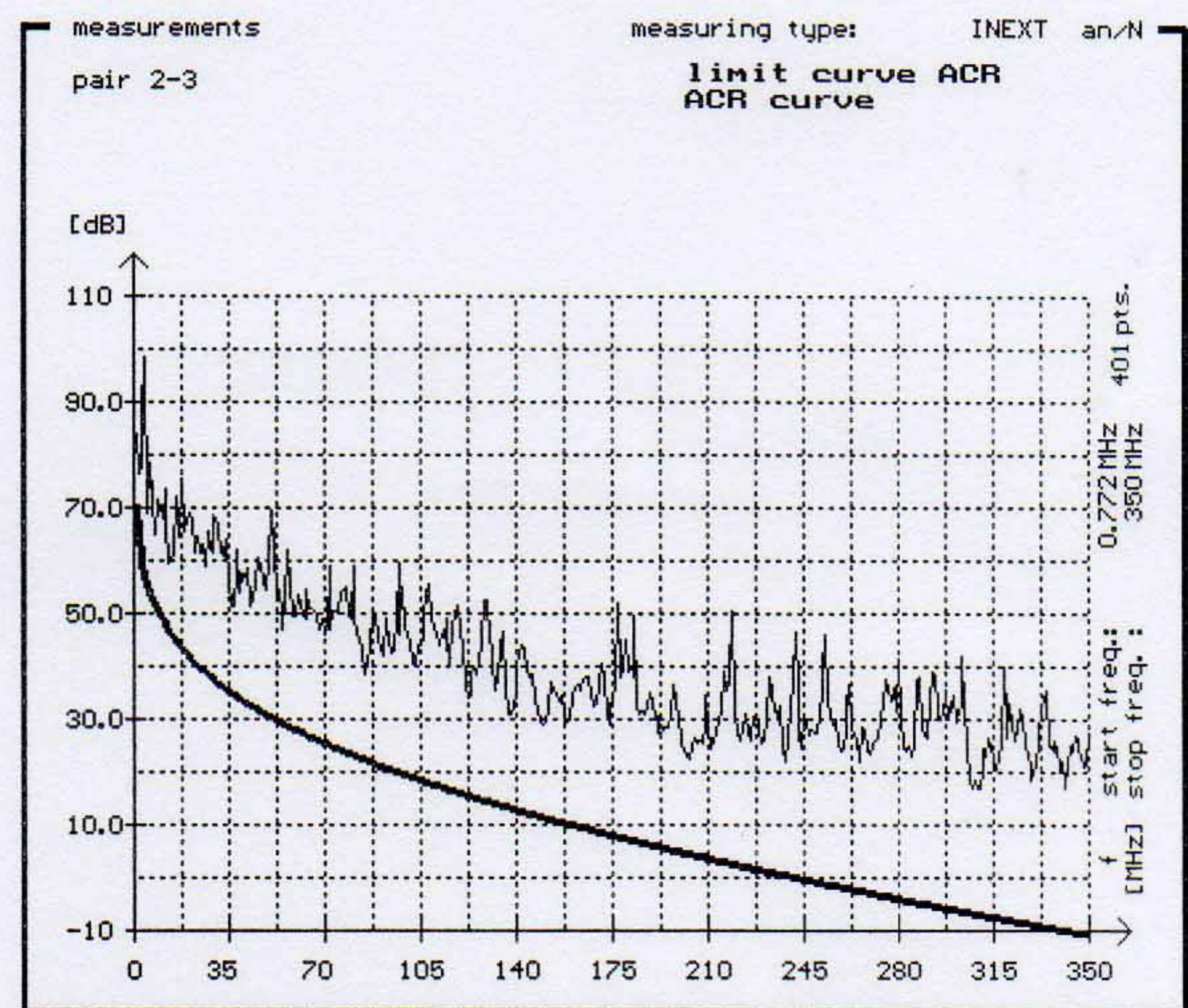
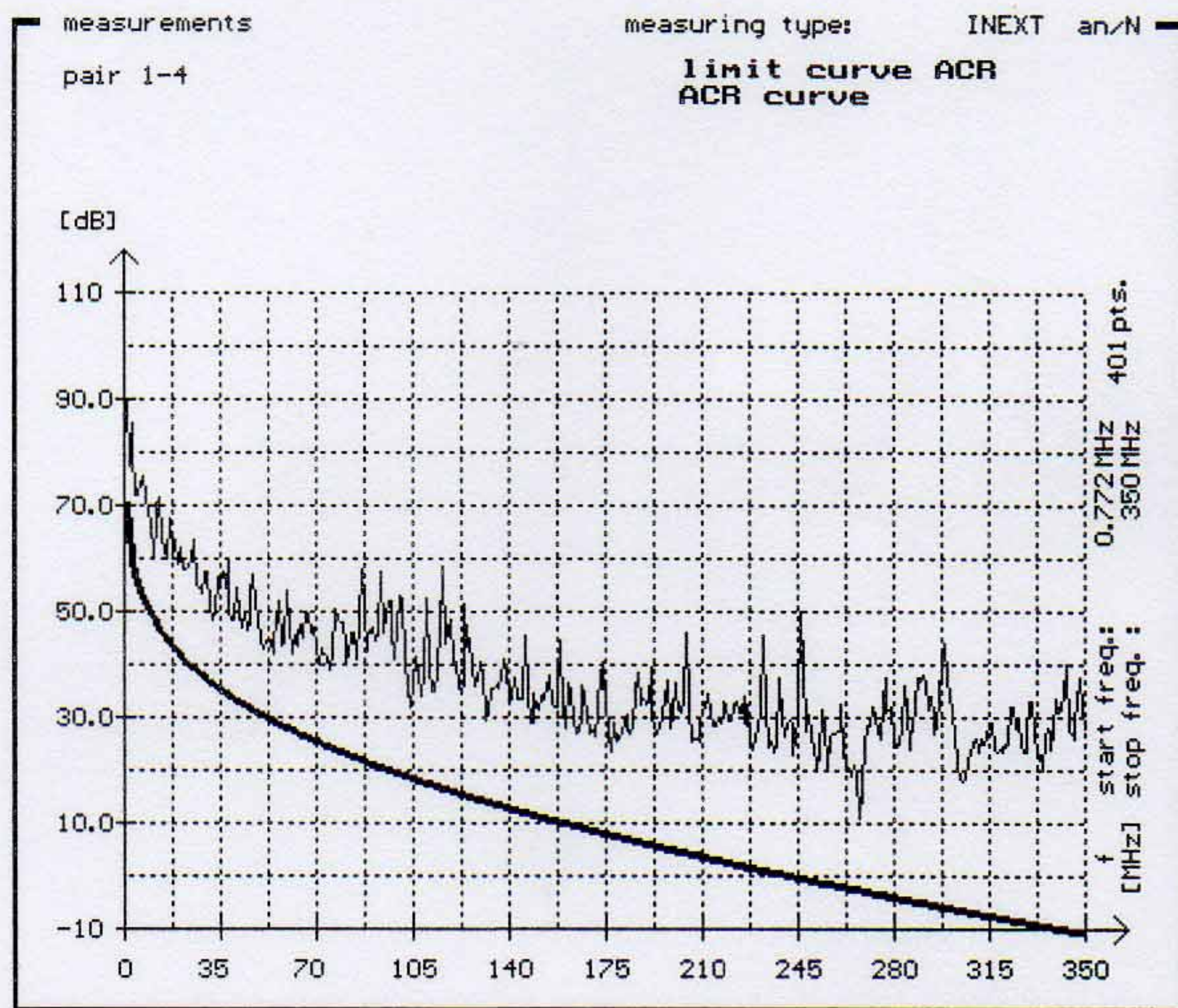
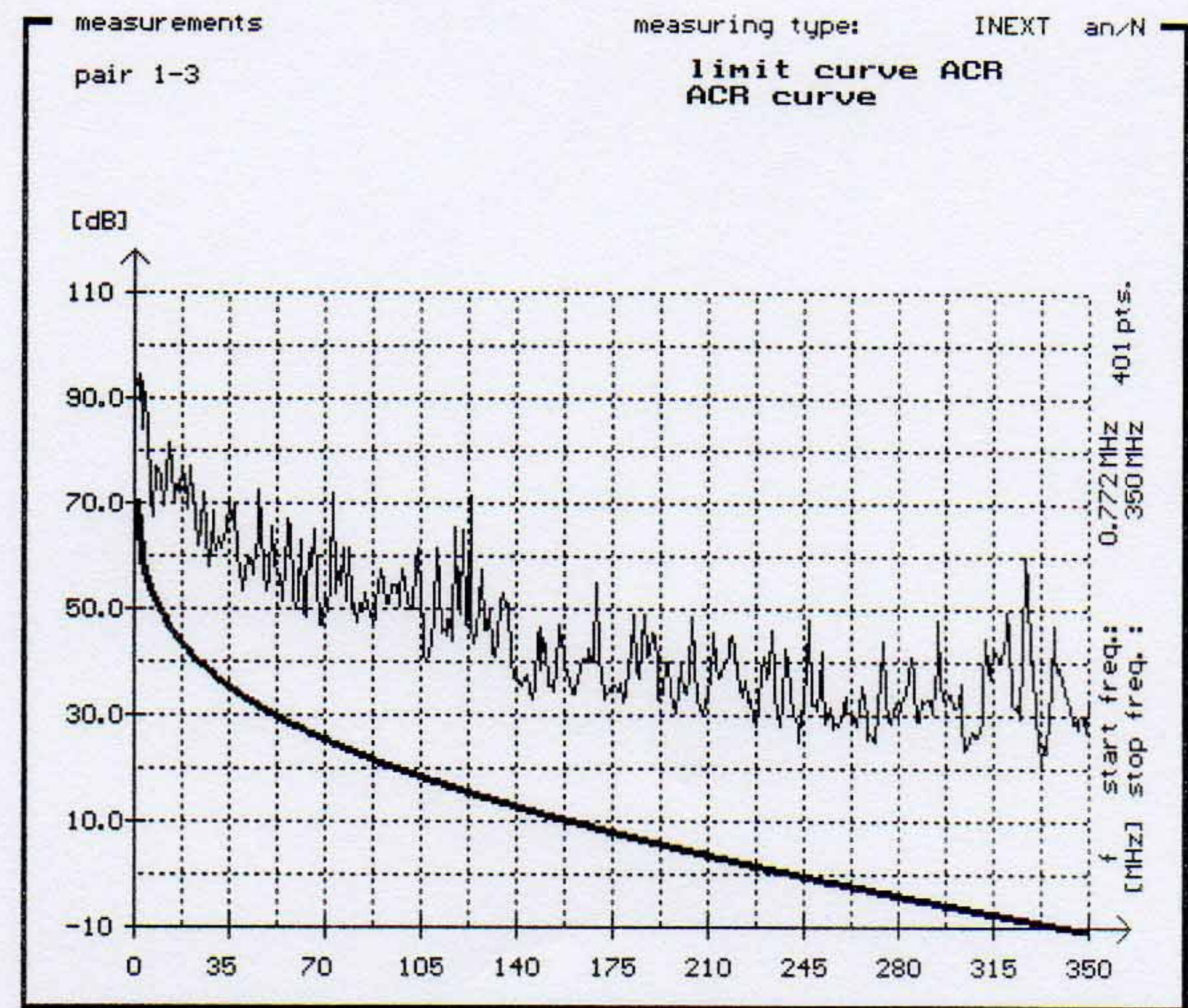
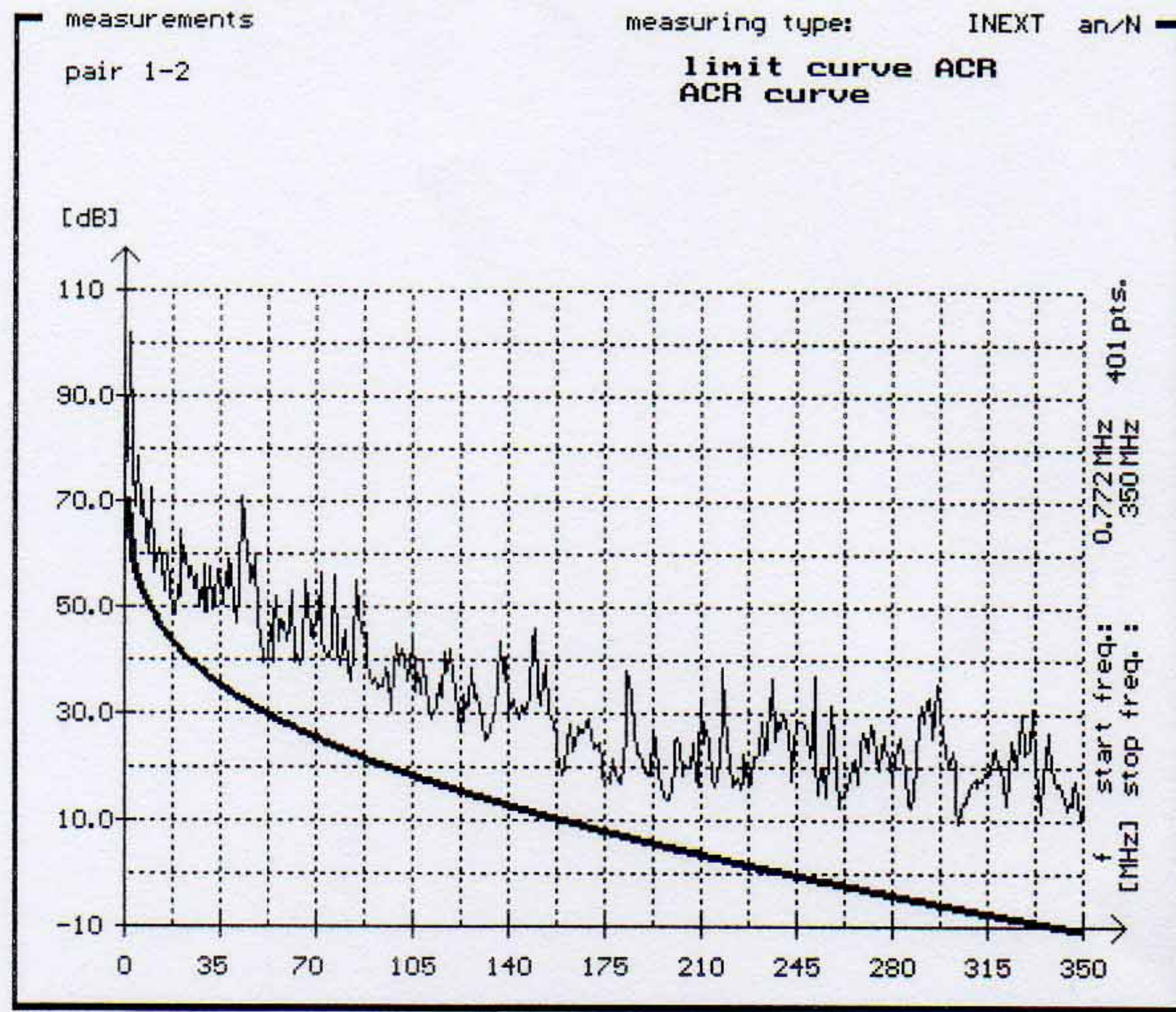


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ACR Near

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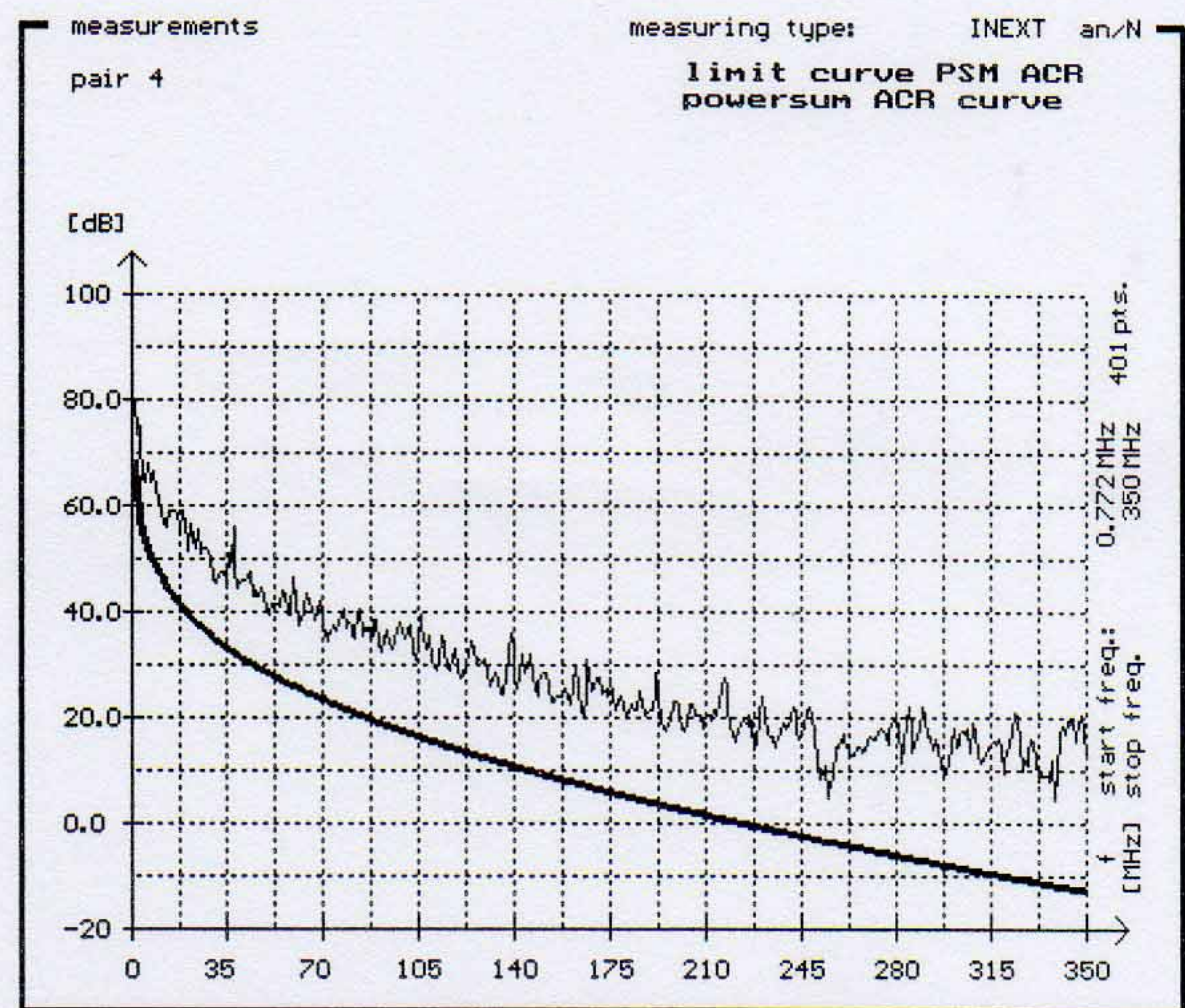
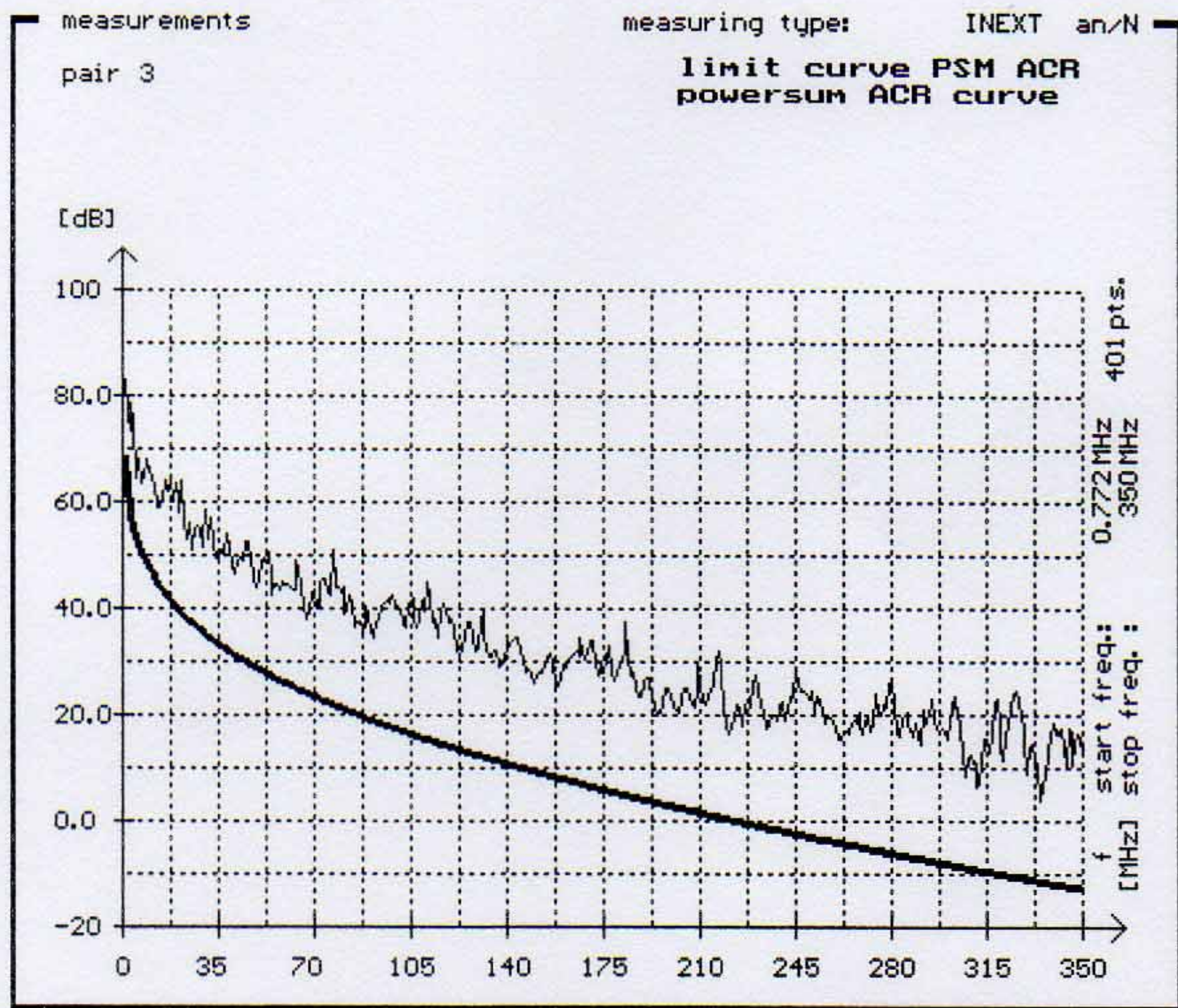
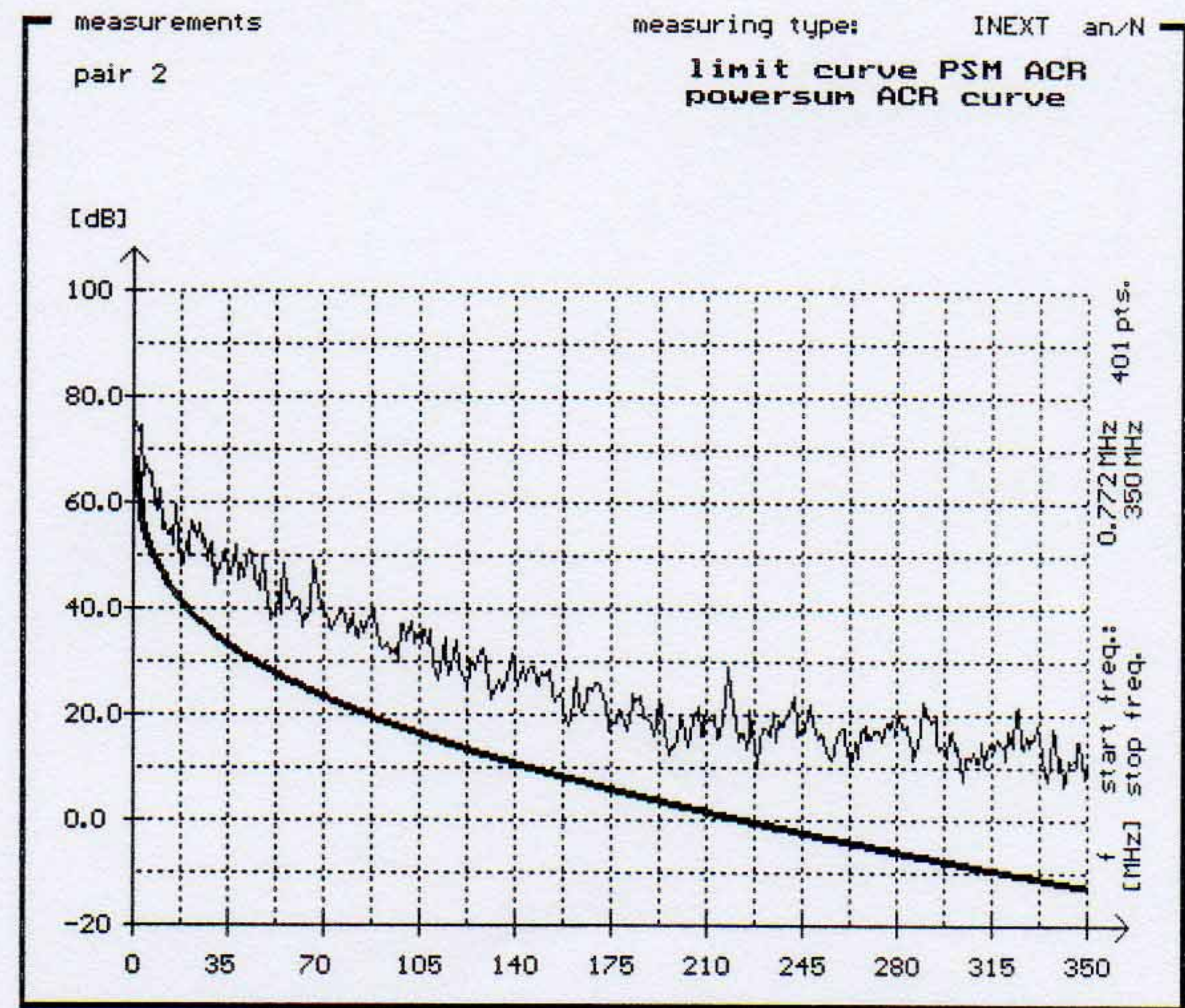
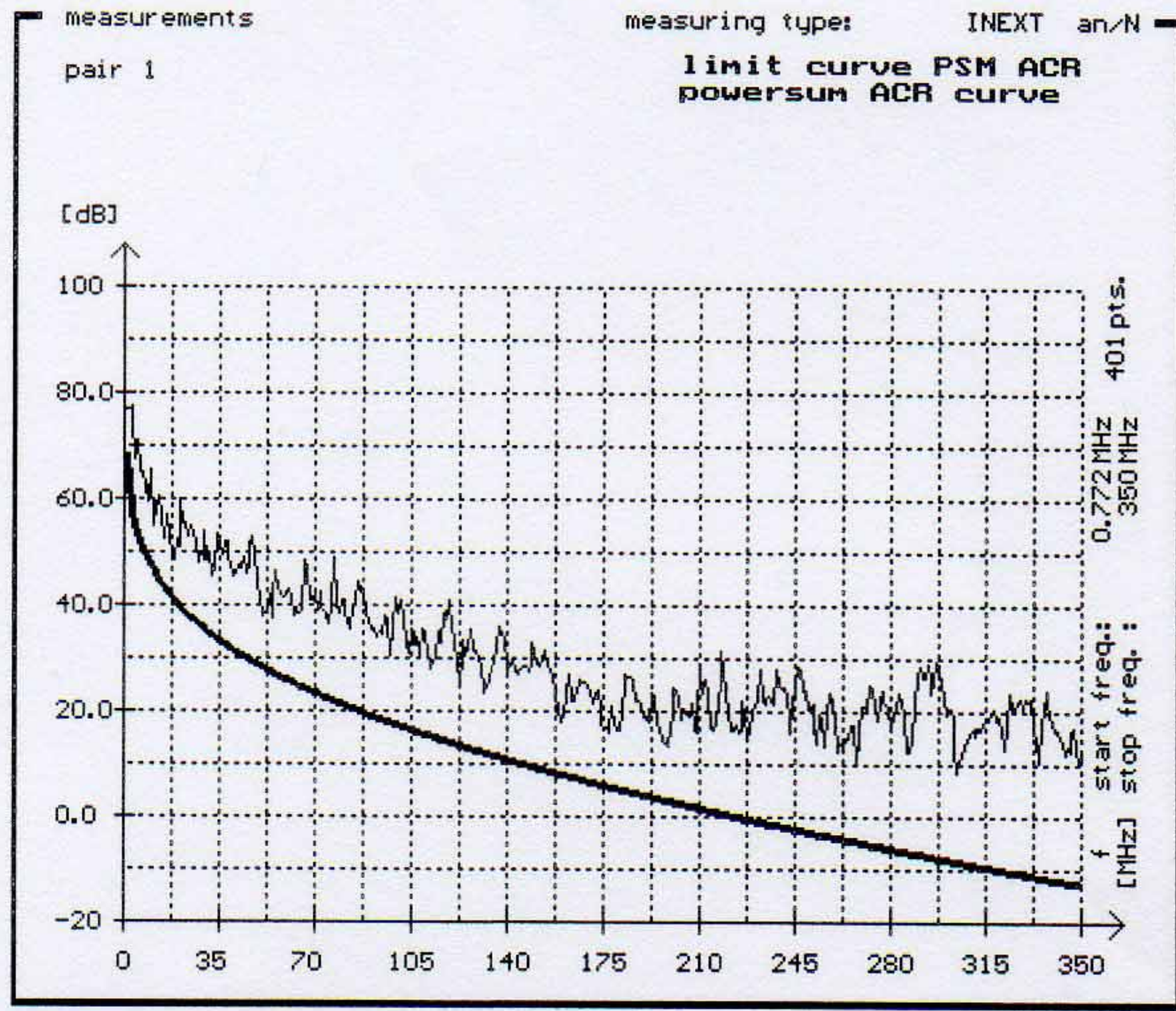


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PS ACR Near

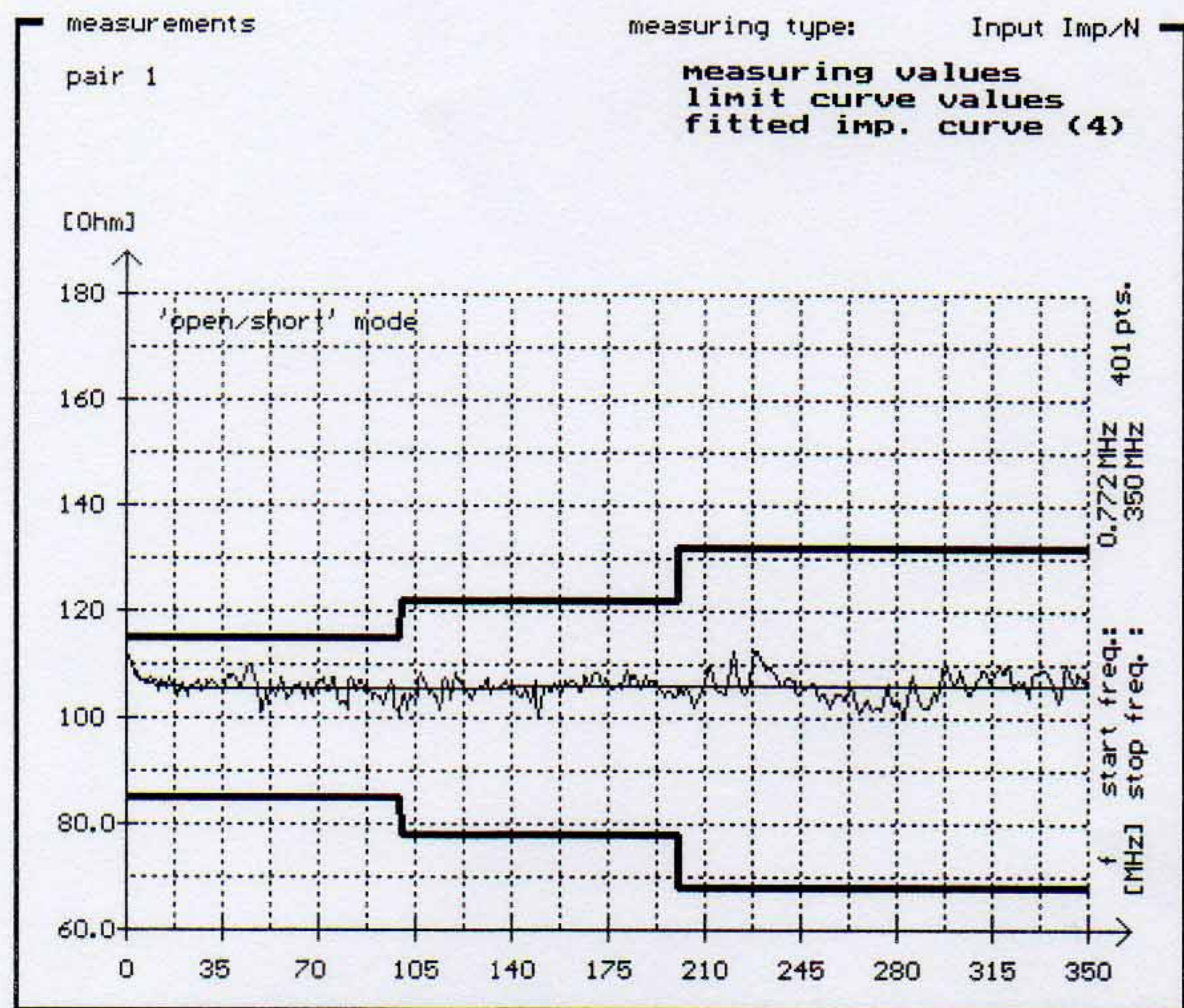
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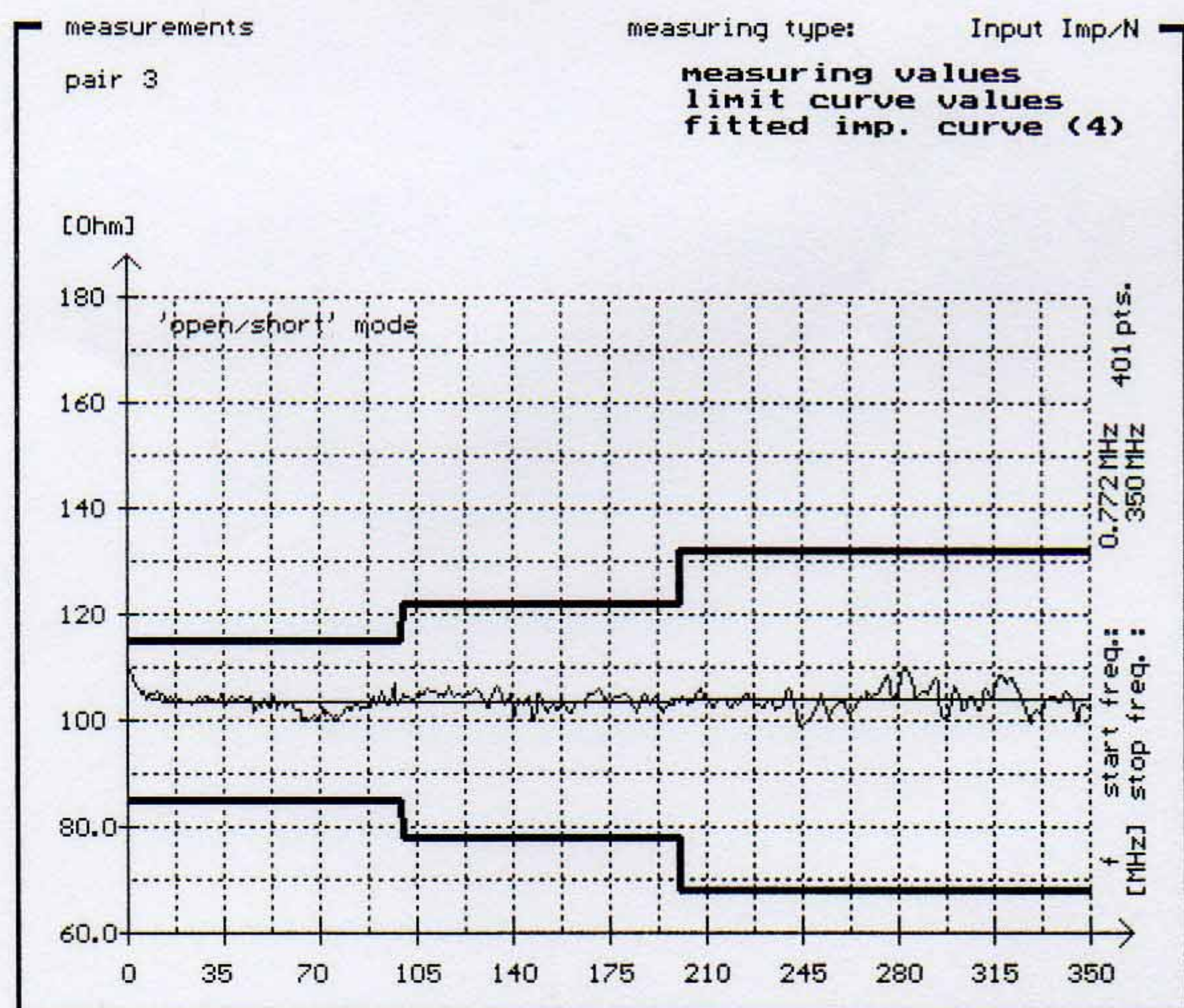
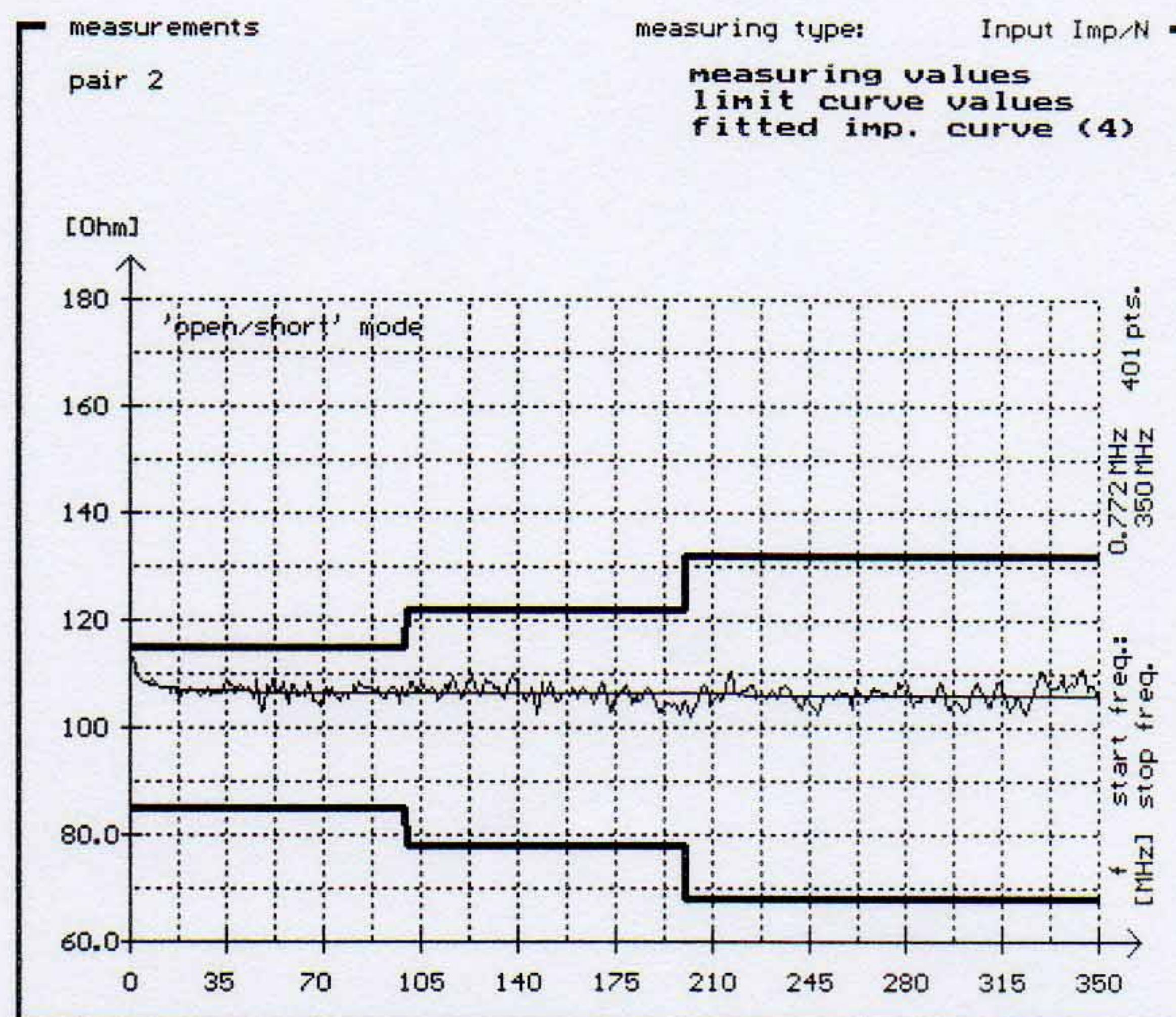


Impedance

CHI Messwerte Pair 1 NEAR
CHI Messwerte Pair 2 NEAR



CHI Messwerte Pair 3 NEAR
CHI Messwerte Pair 4 NEAR



CHI Messwerte Pair 1-4 NEAR
CHI Max-Min Pair 1-4 NEAR

