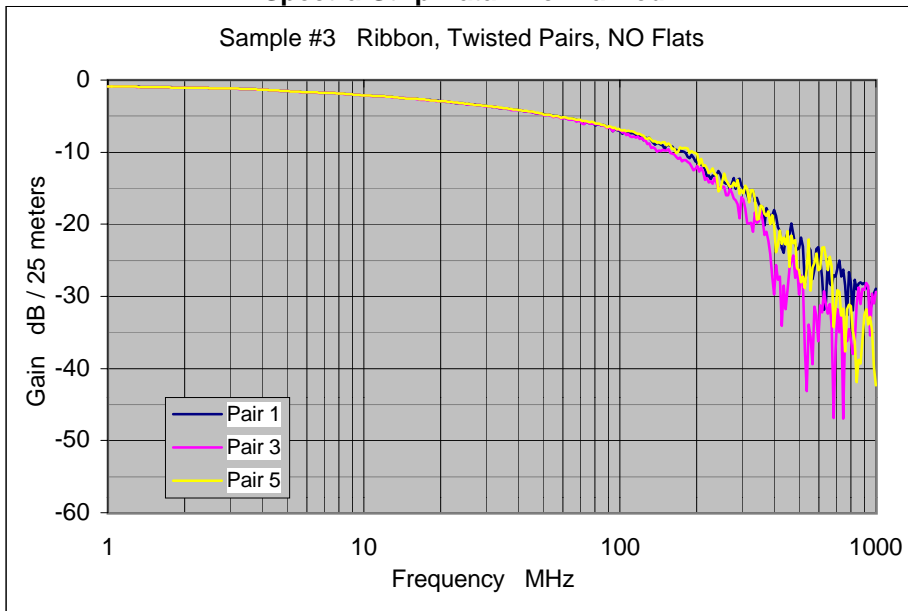
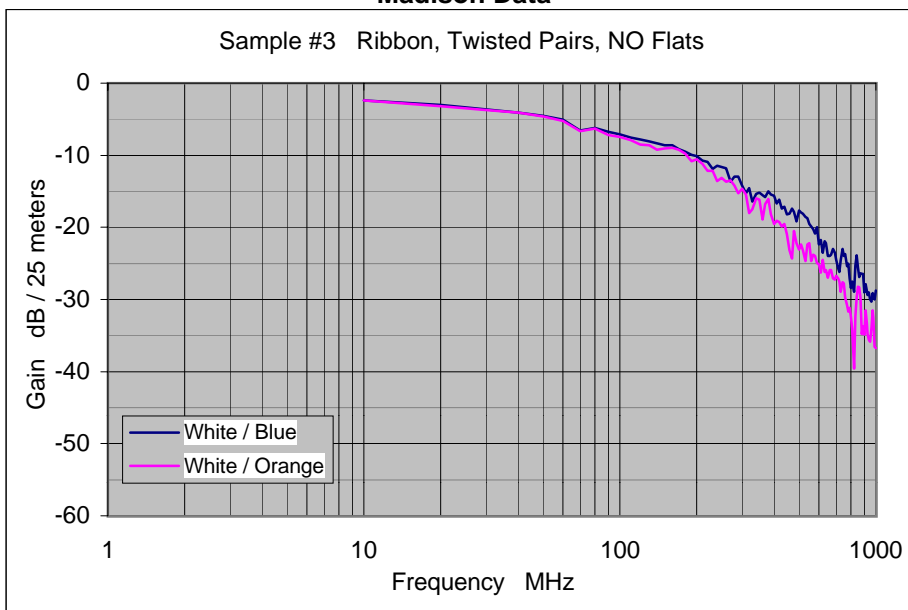


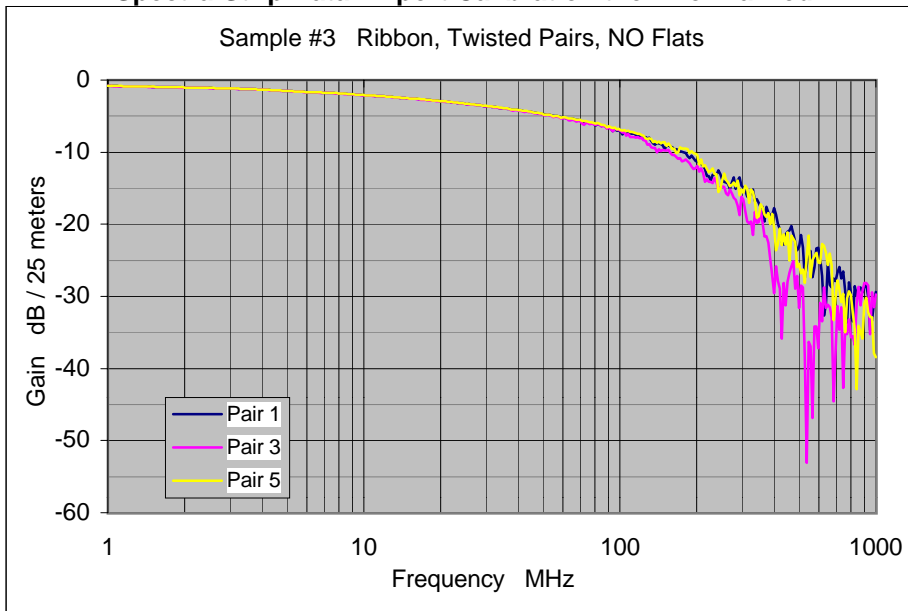
Spectra-Strip Data - Normalized



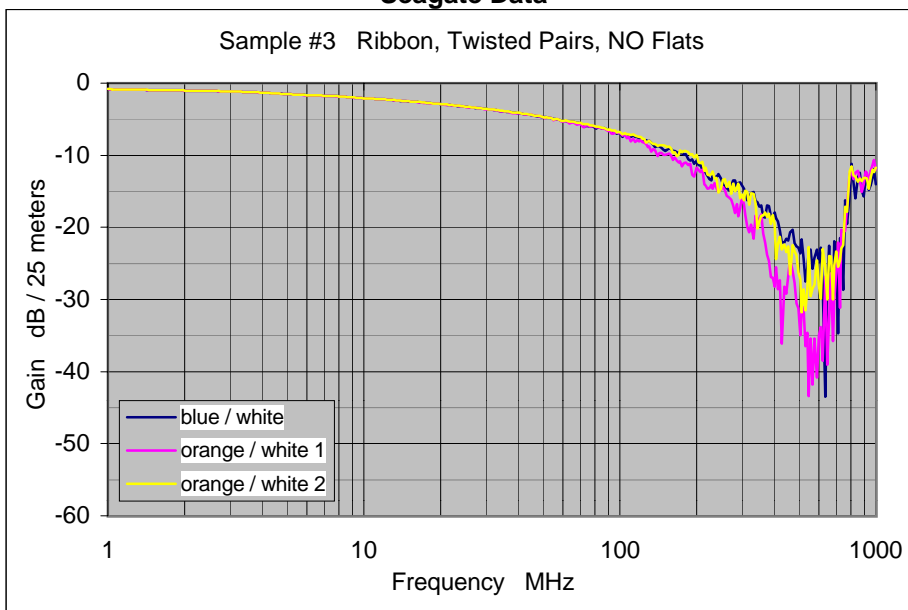
Madison Data



Spectra-Strip Data - 2 port Calibration then Normalized

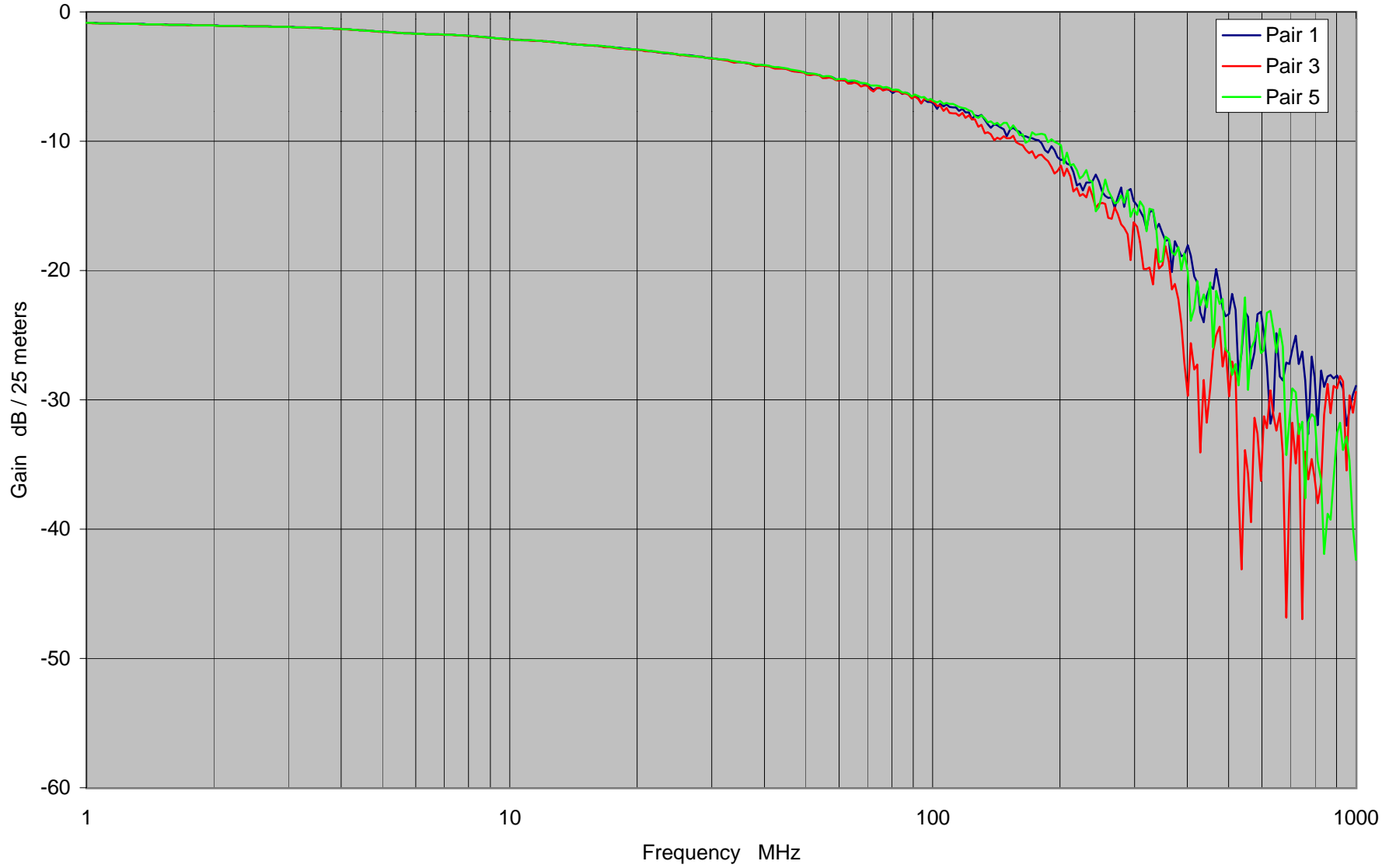


Seagate Data



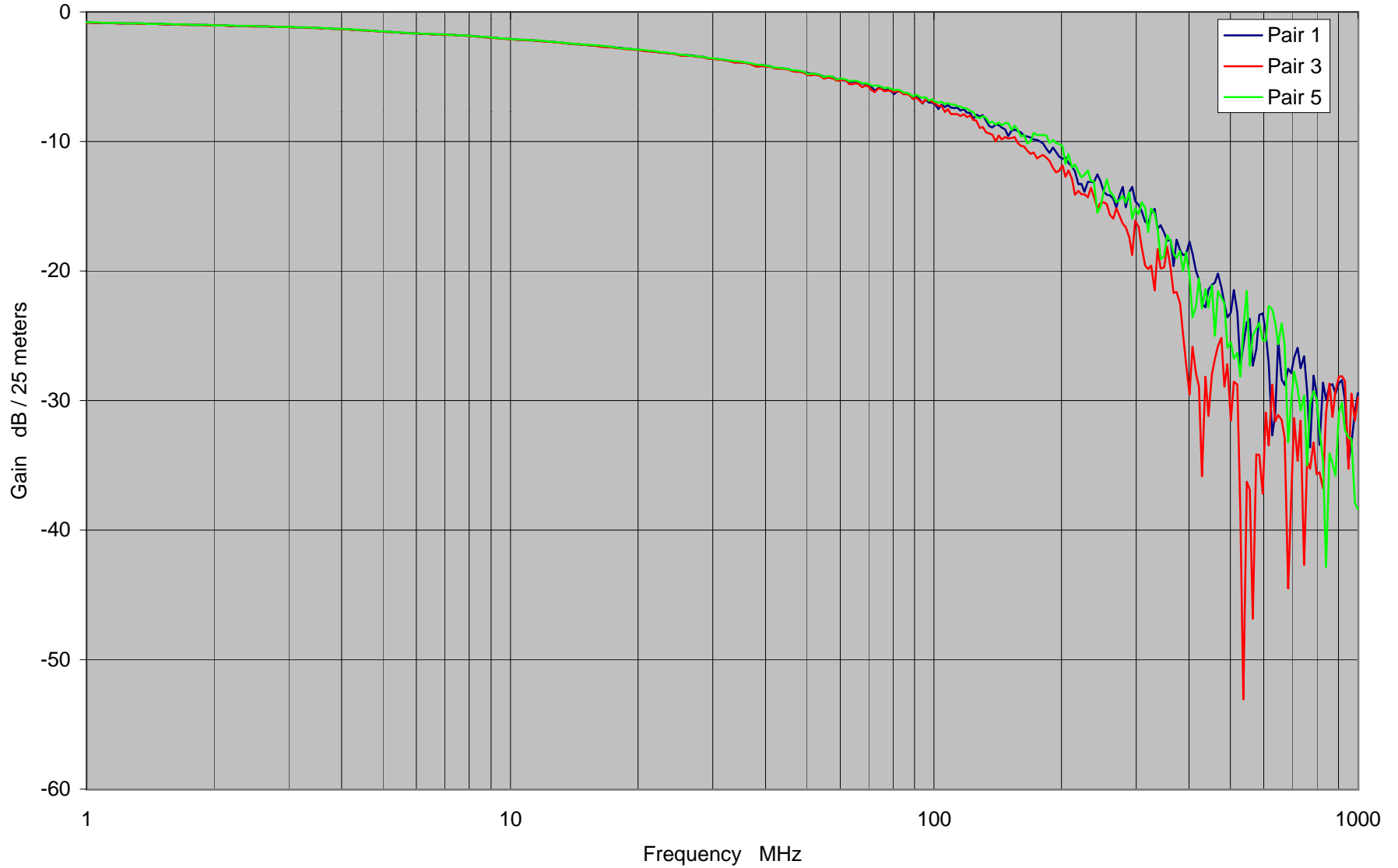
"ATTENUATION"
Normalized Only

Sample #3 Ribbon, Twisted Pairs, NO Flats



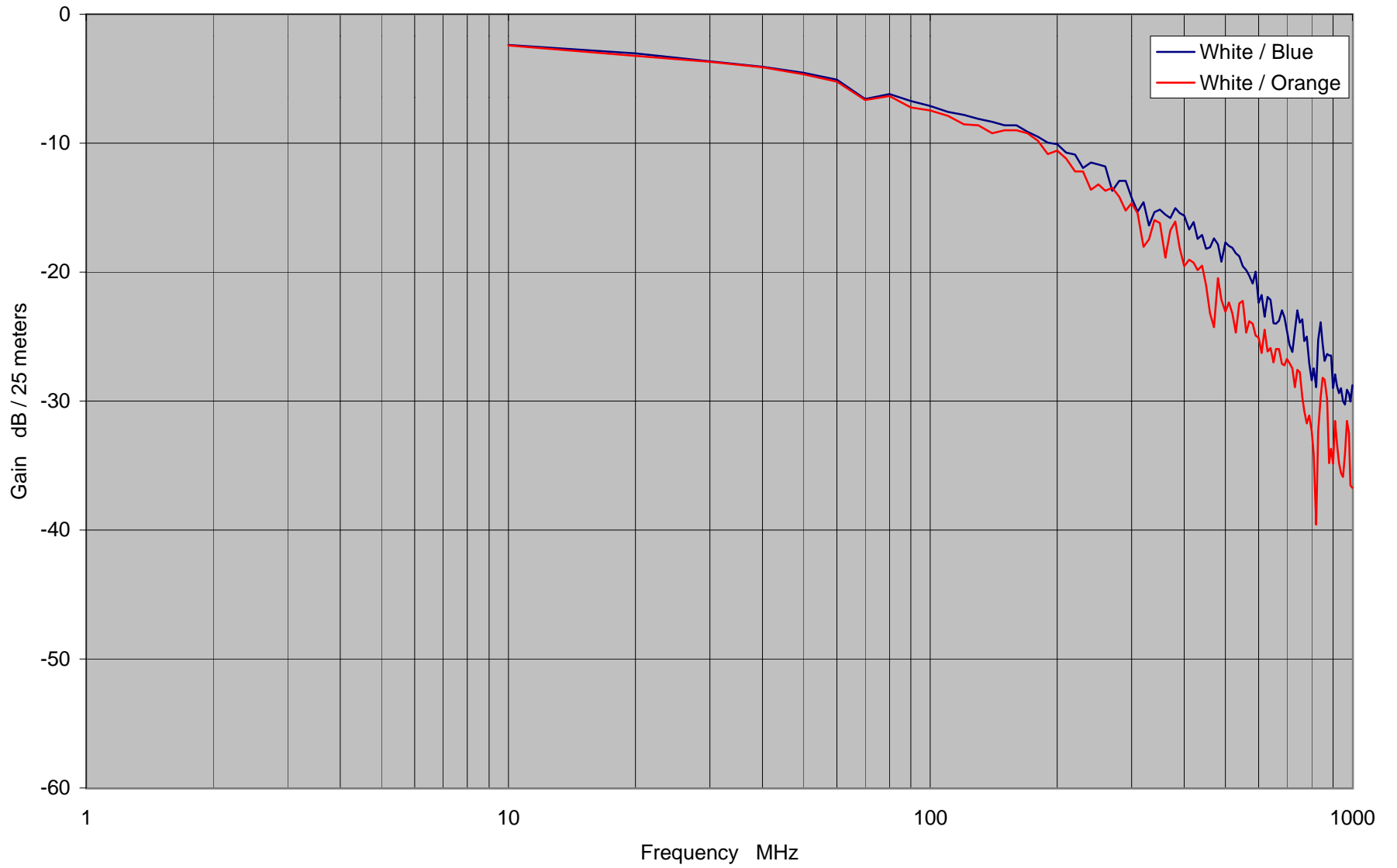
"ATTENUATION"
2 Port Calibration

Sample #3 Ribbon, Twisted Pairs, NO Flats



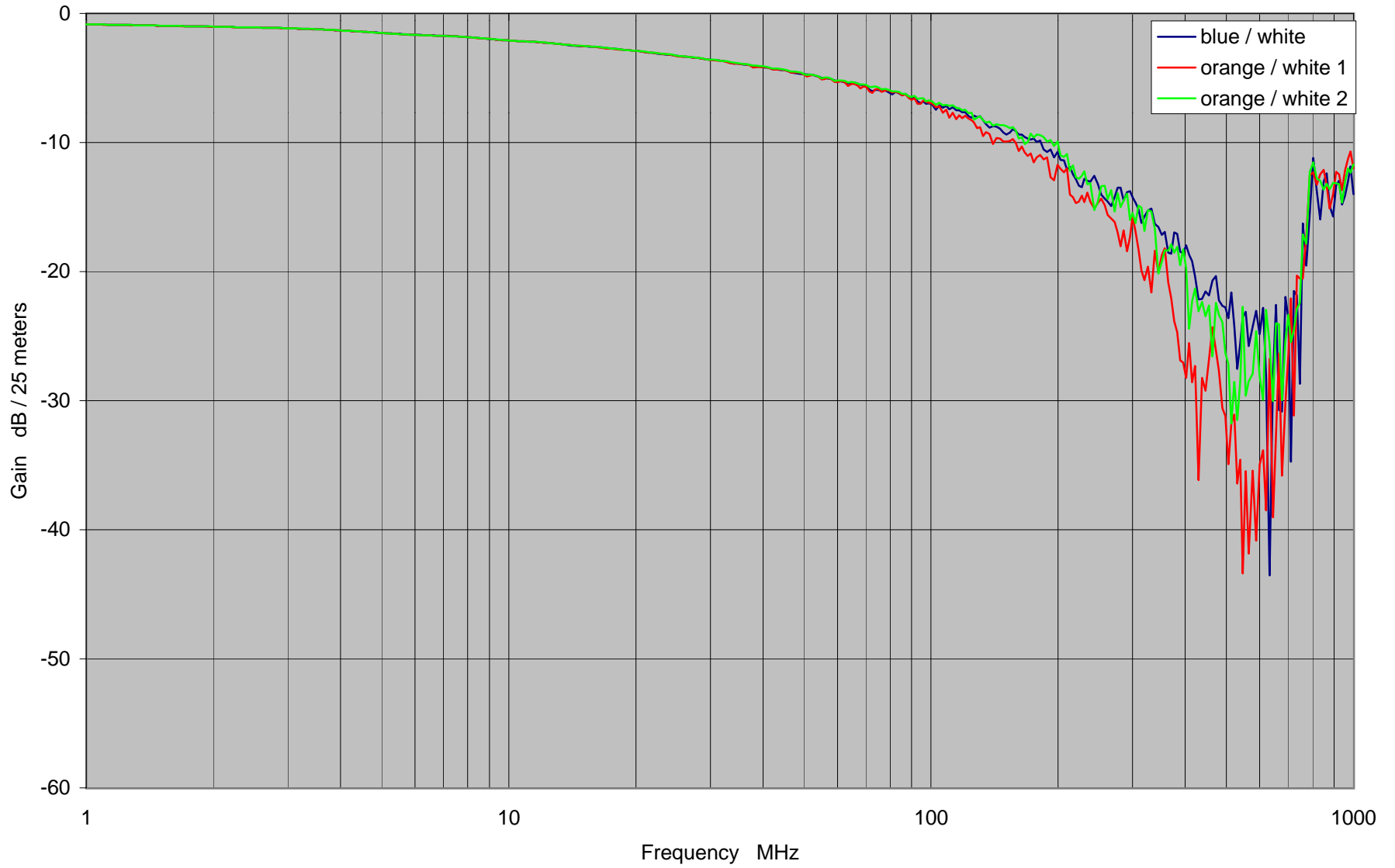
"ATTENUATION"

Sample #3 Ribbon, Twisted Pairs, NO Flats



"ATTENUATION"

Sample #3 Ribbon, Twisted Pairs, NO Flats



SAVED BY:
TITLE:
COMMENTS:
DATE: 2/12/01
TIME: 8:17 AM

Freq MHz	Pair 1	Pair 3	Pair 5
1.00	-0.85	-0.86	-0.85
1.02	-0.85	-0.86	-0.86
1.04	-0.86	-0.87	-0.86
1.05	-0.86	-0.87	-0.87
1.07	-0.87	-0.88	-0.88
1.09	-0.88	-0.89	-0.88
1.11	-0.88	-0.89	-0.88
1.13	-0.88	-0.89	-0.89
1.15	-0.89	-0.90	-0.89
1.17	-0.90	-0.90	-0.90
1.19	-0.90	-0.91	-0.91
1.21	-0.90	-0.92	-0.91
1.23	-0.91	-0.92	-0.91
1.25	-0.92	-0.93	-0.92
1.27	-0.92	-0.93	-0.92
1.30	-0.92	-0.93	-0.93
1.32	-0.93	-0.94	-0.93
1.34	-0.94	-0.94	-0.94
1.36	-0.94	-0.95	-0.95
1.39	-0.95	-0.95	-0.95
1.41	-0.95	-0.96	-0.96
1.44	-0.96	-0.97	-0.96
1.46	-0.96	-0.97	-0.97
1.49	-0.97	-0.97	-0.97
1.51	-0.97	-0.98	-0.98
1.54	-0.98	-0.99	-0.98
1.57	-0.98	-0.99	-0.99
1.59	-0.99	-1.00	-0.99
1.62	-0.99	-1.00	-1.00
1.65	-1.00	-1.00	-1.00
1.68	-1.00	-1.01	-1.01
1.71	-1.01	-1.01	-1.01
1.74	-1.01	-1.02	-1.01
1.77	-1.02	-1.02	-1.02
1.80	-1.02	-1.03	-1.03
1.83	-1.03	-1.04	-1.03
1.86	-1.03	-1.04	-1.04
1.89	-1.04	-1.04	-1.04
1.93	-1.04	-1.05	-1.04
1.96	-1.05	-1.05	-1.05
2.00	-1.05	-1.06	-1.05
2.03	-1.06	-1.06	-1.06
2.07	-1.06	-1.07	-1.07

2.10	-1.07	-1.07	-1.07
2.14	-1.07	-1.07	-1.07
2.18	-1.07	-1.08	-1.08
2.21	-1.08	-1.08	-1.08
2.25	-1.08	-1.09	-1.09
2.29	-1.09	-1.09	-1.09
2.33	-1.09	-1.10	-1.09
2.37	-1.10	-1.10	-1.10
2.41	-1.10	-1.10	-1.10
2.45	-1.10	-1.11	-1.11
2.50	-1.11	-1.12	-1.11
2.54	-1.11	-1.12	-1.12
2.59	-1.12	-1.12	-1.12
2.63	-1.12	-1.13	-1.13
2.68	-1.13	-1.13	-1.13
2.72	-1.13	-1.14	-1.13
2.77	-1.14	-1.14	-1.14
2.82	-1.14	-1.15	-1.14
2.87	-1.15	-1.15	-1.15
2.92	-1.16	-1.16	-1.16
2.97	-1.16	-1.16	-1.16
3.02	-1.17	-1.17	-1.17
3.07	-1.17	-1.18	-1.17
3.13	-1.18	-1.18	-1.18
3.18	-1.19	-1.19	-1.19
3.24	-1.19	-1.20	-1.20
3.29	-1.20	-1.21	-1.20
3.35	-1.21	-1.21	-1.21
3.41	-1.22	-1.22	-1.22
3.47	-1.23	-1.23	-1.23
3.53	-1.24	-1.24	-1.24
3.59	-1.25	-1.25	-1.25
3.65	-1.26	-1.27	-1.26
3.72	-1.27	-1.28	-1.27
3.78	-1.28	-1.29	-1.28
3.85	-1.29	-1.30	-1.30
3.91	-1.31	-1.32	-1.31
3.98	-1.32	-1.33	-1.32
4.05	-1.34	-1.35	-1.34
4.12	-1.35	-1.36	-1.35
4.19	-1.37	-1.38	-1.37
4.27	-1.38	-1.39	-1.38
4.34	-1.39	-1.40	-1.39
4.42	-1.41	-1.42	-1.41
4.49	-1.42	-1.43	-1.43
4.57	-1.44	-1.45	-1.44
4.65	-1.46	-1.47	-1.46
4.73	-1.47	-1.48	-1.48
4.81	-1.49	-1.50	-1.49
4.90	-1.51	-1.52	-1.51
4.98	-1.52	-1.54	-1.53

5.07	-1.54	-1.55	-1.55
5.16	-1.56	-1.57	-1.56
5.25	-1.57	-1.58	-1.58
5.34	-1.59	-1.60	-1.59
5.43	-1.60	-1.62	-1.61
5.53	-1.62	-1.63	-1.62
5.62	-1.63	-1.64	-1.64
5.72	-1.65	-1.66	-1.65
5.82	-1.66	-1.67	-1.66
5.92	-1.67	-1.68	-1.67
6.03	-1.68	-1.69	-1.69
6.13	-1.69	-1.70	-1.70
6.24	-1.71	-1.71	-1.71
6.35	-1.71	-1.72	-1.71
6.46	-1.72	-1.73	-1.72
6.57	-1.73	-1.74	-1.73
6.68	-1.74	-1.74	-1.74
6.80	-1.74	-1.75	-1.74
6.92	-1.75	-1.76	-1.75
7.04	-1.76	-1.76	-1.76
7.16	-1.77	-1.77	-1.77
7.29	-1.78	-1.78	-1.78
7.41	-1.79	-1.79	-1.78
7.54	-1.80	-1.80	-1.80
7.67	-1.81	-1.81	-1.81
7.81	-1.82	-1.83	-1.83
7.94	-1.84	-1.85	-1.84
8.08	-1.85	-1.87	-1.86
8.22	-1.87	-1.90	-1.88
8.37	-1.89	-1.92	-1.90
8.51	-1.91	-1.93	-1.92
8.66	-1.93	-1.95	-1.94
8.81	-1.95	-1.97	-1.96
8.96	-1.97	-1.99	-1.98
9.12	-2.00	-2.01	-2.01
9.28	-2.02	-2.04	-2.03
9.44	-2.05	-2.06	-2.05
9.61	-2.07	-2.08	-2.08
9.77	-2.09	-2.11	-2.10
9.94	-2.11	-2.13	-2.12
10.12	-2.13	-2.14	-2.13
10.29	-2.15	-2.16	-2.15
10.47	-2.16	-2.17	-2.16
10.65	-2.17	-2.18	-2.17
10.84	-2.18	-2.20	-2.18
11.03	-2.19	-2.20	-2.19
11.22	-2.20	-2.21	-2.20
11.42	-2.21	-2.22	-2.21
11.61	-2.22	-2.23	-2.22
11.82	-2.24	-2.25	-2.24
12.02	-2.25	-2.26	-2.25

12.23	-2.27	-2.29	-2.28
12.45	-2.30	-2.32	-2.30
12.66	-2.32	-2.34	-2.33
12.88	-2.34	-2.35	-2.35
13.11	-2.37	-2.38	-2.38
13.34	-2.40	-2.41	-2.41
13.57	-2.43	-2.43	-2.44
13.80	-2.46	-2.46	-2.47
14.04	-2.49	-2.48	-2.49
14.29	-2.51	-2.51	-2.51
14.54	-2.53	-2.53	-2.53
14.79	-2.55	-2.54	-2.55
15.05	-2.57	-2.56	-2.56
15.31	-2.58	-2.57	-2.57
15.58	-2.58	-2.58	-2.58
15.85	-2.60	-2.60	-2.59
16.12	-2.62	-2.63	-2.60
16.41	-2.64	-2.67	-2.62
16.69	-2.67	-2.71	-2.65
16.98	-2.69	-2.73	-2.67
17.28	-2.70	-2.75	-2.70
17.58	-2.73	-2.78	-2.74
17.89	-2.76	-2.80	-2.78
18.20	-2.79	-2.84	-2.81
18.51	-2.82	-2.86	-2.84
18.84	-2.84	-2.88	-2.86
19.16	-2.86	-2.90	-2.87
19.50	-2.88	-2.91	-2.89
19.84	-2.90	-2.92	-2.90
20.18	-2.92	-2.94	-2.91
20.54	-2.95	-2.97	-2.94
20.89	-3.00	-3.02	-2.97
21.26	-3.02	-3.04	-3.00
21.63	-3.05	-3.06	-3.02
22.00	-3.08	-3.09	-3.06
22.39	-3.12	-3.12	-3.09
22.78	-3.15	-3.15	-3.12
23.17	-3.18	-3.17	-3.14
23.58	-3.20	-3.19	-3.16
23.99	-3.22	-3.21	-3.19
24.41	-3.24	-3.24	-3.21
24.83	-3.28	-3.30	-3.26
25.26	-3.33	-3.36	-3.31
25.70	-3.32	-3.36	-3.32
26.15	-3.33	-3.37	-3.35
26.61	-3.37	-3.41	-3.39
27.07	-3.40	-3.43	-3.42
27.54	-3.42	-3.45	-3.44
28.02	-3.45	-3.47	-3.46
28.51	-3.48	-3.50	-3.48
29.01	-3.52	-3.54	-3.53

29.51	-3.59	-3.60	-3.57
30.03	-3.59	-3.61	-3.58
30.55	-3.62	-3.63	-3.60
31.08	-3.65	-3.66	-3.64
31.62	-3.68	-3.69	-3.66
32.17	-3.71	-3.72	-3.69
32.73	-3.74	-3.76	-3.71
33.30	-3.81	-3.84	-3.76
33.88	-3.88	-3.91	-3.80
34.47	-3.87	-3.89	-3.83
35.08	-3.89	-3.90	-3.87
35.69	-3.93	-3.93	-3.91
36.31	-3.96	-3.96	-3.93
36.94	-3.99	-4.01	-3.96
37.58	-4.06	-4.13	-4.03
38.24	-4.10	-4.19	-4.06
38.90	-4.08	-4.15	-4.07
39.58	-4.10	-4.16	-4.10
40.27	-4.14	-4.18	-4.13
40.97	-4.18	-4.21	-4.17
41.69	-4.26	-4.29	-4.24
42.41	-4.35	-4.38	-4.29
43.15	-4.33	-4.37	-4.28
43.90	-4.34	-4.38	-4.31
44.67	-4.37	-4.40	-4.34
45.45	-4.42	-4.45	-4.39
46.24	-4.54	-4.55	-4.48
47.04	-4.59	-4.60	-4.51
47.86	-4.61	-4.62	-4.55
48.70	-4.63	-4.64	-4.58
49.54	-4.66	-4.69	-4.64
50.41	-4.73	-4.84	-4.78
51.29	-4.78	-4.87	-4.77
52.18	-4.80	-4.84	-4.77
53.09	-4.84	-4.85	-4.80
54.01	-4.88	-4.93	-4.89
54.95	-5.00	-5.13	-5.02
55.91	-5.00	-5.10	-4.96
56.89	-5.01	-5.08	-4.98
57.88	-5.05	-5.12	-5.05
58.88	-5.18	-5.28	-5.23
59.91	-5.25	-5.31	-5.18
60.95	-5.26	-5.26	-5.17
62.02	-5.31	-5.31	-5.21
63.10	-5.41	-5.53	-5.33
64.19	-5.38	-5.54	-5.31
65.31	-5.33	-5.46	-5.32
66.45	-5.38	-5.53	-5.37
67.61	-5.51	-5.76	-5.50
68.79	-5.55	-5.68	-5.50
69.98	-5.62	-5.70	-5.54

71.20	-5.83	-6.00	-5.69
72.44	-6.04	-6.14	-5.70
73.71	-5.88	-5.88	-5.69
74.99	-5.90	-5.86	-5.75
76.30	-6.03	-6.08	-5.85
77.62	-5.95	-6.00	-5.81
78.98	-6.02	-5.99	-5.90
80.35	-6.29	-6.13	-6.04
81.75	-6.11	-6.13	-6.00
83.18	-6.12	-6.14	-6.04
84.63	-6.33	-6.32	-6.22
86.10	-6.24	-6.32	-6.22
87.60	-6.29	-6.39	-6.31
89.12	-6.59	-6.70	-6.53
90.68	-6.46	-6.54	-6.38
92.26	-6.67	-6.75	-6.52
93.86	-7.08	-7.06	-6.63
95.50	-6.75	-6.74	-6.58
97.16	-6.96	-6.83	-6.81
98.86	-6.97	-6.88	-6.72
100.58	-7.07	-6.97	-6.89
102.33	-7.49	-7.26	-7.01
104.11	-7.12	-7.23	-6.89
105.93	-7.33	-7.67	-7.11
107.77	-7.16	-7.42	-7.05
109.65	-7.35	-7.82	-7.13
111.56	-7.40	-7.87	-7.11
113.50	-7.37	-7.83	-7.22
115.48	-7.66	-8.02	-7.35
117.49	-7.51	-7.83	-7.42
119.54	-7.77	-8.18	-7.46
121.62	-7.77	-8.00	-7.61
123.74	-8.32	-8.32	-7.71
125.89	-8.01	-8.30	-8.07
128.09	-8.09	-8.90	-8.18
130.32	-7.95	-8.75	-7.99
132.59	-8.33	-9.38	-8.23
134.90	-8.69	-9.32	-8.54
137.25	-8.97	-9.47	-8.47
139.64	-8.68	-9.92	-8.67
142.07	-8.79	-9.72	-8.58
144.54	-8.92	-9.86	-8.79
147.06	-9.06	-9.63	-8.57
149.62	-9.60	-9.79	-8.58
152.23	-9.07	-9.77	-9.09
154.88	-8.97	-9.58	-8.77
157.58	-9.15	-10.10	-9.09
160.32	-9.26	-10.23	-9.54
163.12	-9.62	-10.30	-9.46
165.96	-9.63	-10.64	-10.12
168.85	-9.74	-10.91	-9.95

171.79	-9.76	-10.78	-9.30
174.78	-9.87	-11.31	-9.50
177.83	-9.91	-11.08	-9.45
180.93	-10.15	-11.05	-9.44
184.08	-10.69	-11.33	-9.51
187.28	-10.87	-11.54	-10.09
190.55	-10.39	-11.99	-9.84
193.86	-10.70	-12.52	-10.05
197.24	-11.25	-12.30	-10.16
200.68	-11.46	-11.90	-10.31
204.17	-11.40	-12.69	-11.73
207.73	-11.72	-12.13	-10.90
211.35	-11.86	-12.73	-11.90
215.03	-12.37	-13.87	-11.79
218.78	-13.41	-13.61	-12.21
222.59	-13.26	-14.23	-12.87
226.46	-13.80	-14.06	-12.70
230.41	-13.20	-14.34	-12.22
234.42	-13.20	-13.54	-13.03
238.51	-13.12	-14.21	-13.12
242.66	-12.59	-15.15	-15.41
246.89	-13.06	-14.85	-15.11
251.19	-13.93	-14.77	-14.04
255.56	-14.24	-14.85	-12.96
260.02	-14.37	-15.94	-13.82
264.54	-14.35	-15.99	-14.36
269.15	-15.17	-15.12	-14.80
273.84	-14.39	-15.61	-14.75
278.61	-13.58	-16.41	-14.20
283.46	-15.08	-16.69	-14.76
288.40	-13.84	-17.19	-13.81
293.43	-13.67	-19.17	-15.83
298.54	-14.61	-16.28	-15.25
303.74	-14.97	-16.62	-15.68
309.03	-15.38	-17.81	-14.65
314.41	-15.87	-19.87	-15.08
319.89	-16.80	-19.88	-16.98
325.46	-15.50	-19.78	-15.23
331.13	-15.32	-21.06	-15.31
336.90	-16.82	-18.33	-16.51
342.77	-16.37	-19.83	-19.36
348.74	-17.10	-19.59	-19.27
354.81	-17.70	-18.11	-17.40
360.99	-17.60	-19.35	-17.57
367.28	-20.10	-21.47	-18.56
373.68	-17.75	-21.02	-18.80
380.19	-18.37	-22.23	-18.19
386.81	-18.90	-24.13	-19.95
393.55	-18.82	-27.12	-18.70
400.40	-18.03	-29.70	-20.11
407.38	-18.83	-25.63	-23.87

414.48	-20.45	-27.67	-22.91
421.70	-20.94	-27.27	-20.83
429.04	-23.22	-34.07	-22.70
436.51	-24.00	-28.47	-21.83
444.12	-21.98	-31.77	-22.84
451.86	-21.19	-29.10	-20.94
459.73	-21.40	-26.23	-25.95
467.73	-19.89	-25.01	-21.59
475.88	-21.35	-24.33	-22.59
484.17	-22.91	-27.41	-22.18
492.61	-23.53	-25.98	-26.12
501.19	-23.36	-29.73	-26.37
509.92	-21.80	-27.03	-28.06
518.80	-23.05	-28.13	-27.22
527.84	-28.17	-37.24	-28.87
537.03	-26.37	-43.13	-26.13
546.39	-23.19	-33.88	-22.06
555.90	-23.57	-35.68	-29.23
565.59	-27.59	-39.44	-26.05
575.44	-26.31	-31.38	-25.42
585.46	-23.39	-32.62	-24.02
595.66	-23.20	-36.25	-26.38
606.04	-24.86	-31.27	-26.14
616.59	-27.41	-32.18	-23.26
627.33	-31.85	-29.26	-23.13
638.26	-30.83	-31.20	-24.55
649.38	-24.83	-32.38	-26.36
660.69	-28.20	-31.04	-24.52
672.20	-28.50	-34.21	-25.89
683.91	-27.11	-46.85	-34.26
695.82	-27.22	-37.50	-31.67
707.94	-26.11	-31.76	-29.13
720.28	-25.02	-34.93	-29.41
732.82	-27.25	-31.85	-32.65
745.59	-26.26	-46.96	-31.68
758.58	-28.49	-34.02	-37.62
771.79	-32.65	-36.17	-31.74
785.23	-26.66	-34.56	-31.11
798.91	-28.25	-36.08	-31.36
812.83	-31.97	-37.99	-34.74
826.99	-27.73	-36.42	-36.22
841.39	-29.00	-31.17	-41.91
856.05	-28.19	-28.76	-38.79
870.96	-28.07	-31.04	-39.28
886.13	-28.35	-28.92	-36.14
901.57	-28.11	-29.11	-32.58
917.27	-28.63	-28.16	-31.76
933.25	-29.10	-28.59	-33.88
949.51	-31.99	-35.45	-32.86
966.05	-30.77	-29.67	-34.70
982.88	-29.58	-31.00	-39.88

1000.00

-28.94

-29.40

-42.38

SAVED BY:
TITLE:
COMMENTS:
DATE: 2/12/01
TIME: 8:17 AM

Freq MHz	Pair 1	Pair 3	Pair 5
1.00	-0.82	-0.83	-0.81
1.02	-0.82	-0.83	-0.81
1.04	-0.83	-0.84	-0.82
1.05	-0.83	-0.84	-0.82
1.07	-0.84	-0.85	-0.83
1.09	-0.84	-0.85	-0.83
1.11	-0.85	-0.86	-0.84
1.13	-0.85	-0.86	-0.84
1.15	-0.86	-0.86	-0.85
1.17	-0.86	-0.87	-0.85
1.19	-0.87	-0.88	-0.86
1.21	-0.87	-0.88	-0.86
1.23	-0.88	-0.89	-0.87
1.25	-0.88	-0.89	-0.87
1.27	-0.89	-0.89	-0.88
1.30	-0.89	-0.90	-0.88
1.32	-0.90	-0.91	-0.89
1.34	-0.90	-0.91	-0.89
1.36	-0.91	-0.92	-0.90
1.39	-0.91	-0.93	-0.91
1.41	-0.92	-0.93	-0.91
1.44	-0.92	-0.93	-0.91
1.46	-0.93	-0.94	-0.92
1.49	-0.93	-0.95	-0.93
1.51	-0.94	-0.95	-0.93
1.54	-0.94	-0.95	-0.94
1.57	-0.95	-0.96	-0.94
1.59	-0.96	-0.96	-0.95
1.62	-0.96	-0.98	-0.96
1.65	-0.97	-0.97	-0.96
1.68	-0.97	-0.98	-0.97
1.71	-0.98	-0.99	-0.97
1.74	-0.98	-1.00	-0.98
1.77	-0.99	-1.00	-0.98
1.80	-0.99	-1.01	-0.99
1.83	-1.00	-1.01	-1.00
1.86	-1.01	-1.02	-1.00
1.89	-1.01	-1.02	-1.00
1.93	-1.02	-1.03	-1.01
1.96	-1.03	-1.03	-1.02
2.00	-1.03	-1.04	-1.02
2.03	-1.04	-1.04	-1.03
2.07	-1.04	-1.05	-1.03

2.10	-1.04	-1.06	-1.04
2.14	-1.05	-1.06	-1.05
2.18	-1.06	-1.07	-1.05
2.21	-1.07	-1.08	-1.05
2.25	-1.07	-1.08	-1.06
2.29	-1.07	-1.08	-1.07
2.33	-1.08	-1.09	-1.07
2.37	-1.09	-1.10	-1.08
2.41	-1.09	-1.10	-1.08
2.45	-1.10	-1.11	-1.09
2.50	-1.10	-1.11	-1.09
2.54	-1.11	-1.12	-1.10
2.59	-1.11	-1.12	-1.11
2.63	-1.12	-1.13	-1.11
2.68	-1.13	-1.13	-1.12
2.72	-1.14	-1.14	-1.12
2.77	-1.14	-1.15	-1.13
2.82	-1.14	-1.15	-1.14
2.87	-1.15	-1.16	-1.14
2.92	-1.16	-1.16	-1.15
2.97	-1.16	-1.17	-1.15
3.02	-1.17	-1.18	-1.16
3.07	-1.18	-1.19	-1.17
3.13	-1.19	-1.19	-1.17
3.18	-1.19	-1.20	-1.18
3.24	-1.20	-1.21	-1.19
3.29	-1.21	-1.22	-1.20
3.35	-1.22	-1.23	-1.21
3.41	-1.23	-1.23	-1.22
3.47	-1.24	-1.24	-1.23
3.53	-1.24	-1.25	-1.23
3.59	-1.26	-1.26	-1.24
3.65	-1.26	-1.27	-1.25
3.72	-1.27	-1.28	-1.26
3.78	-1.29	-1.30	-1.28
3.85	-1.30	-1.31	-1.29
3.91	-1.31	-1.32	-1.30
3.98	-1.32	-1.33	-1.31
4.05	-1.34	-1.35	-1.33
4.12	-1.35	-1.36	-1.34
4.19	-1.36	-1.37	-1.35
4.27	-1.37	-1.38	-1.36
4.34	-1.39	-1.40	-1.38
4.42	-1.40	-1.41	-1.39
4.49	-1.42	-1.43	-1.41
4.57	-1.43	-1.44	-1.42
4.65	-1.45	-1.46	-1.44
4.73	-1.46	-1.47	-1.45
4.81	-1.48	-1.48	-1.47
4.90	-1.49	-1.50	-1.49
4.98	-1.51	-1.52	-1.50

5.07	-1.52	-1.53	-1.52
5.16	-1.54	-1.55	-1.53
5.25	-1.55	-1.56	-1.55
5.34	-1.57	-1.58	-1.56
5.43	-1.58	-1.59	-1.58
5.53	-1.60	-1.61	-1.59
5.62	-1.61	-1.62	-1.60
5.72	-1.62	-1.63	-1.62
5.82	-1.64	-1.65	-1.64
5.92	-1.65	-1.66	-1.65
6.03	-1.66	-1.67	-1.65
6.13	-1.67	-1.68	-1.67
6.24	-1.68	-1.69	-1.68
6.35	-1.69	-1.70	-1.69
6.46	-1.70	-1.72	-1.70
6.57	-1.71	-1.72	-1.71
6.68	-1.72	-1.73	-1.72
6.80	-1.73	-1.74	-1.73
6.92	-1.74	-1.75	-1.74
7.04	-1.75	-1.76	-1.75
7.16	-1.76	-1.77	-1.75
7.29	-1.77	-1.78	-1.76
7.41	-1.78	-1.80	-1.78
7.54	-1.80	-1.81	-1.79
7.67	-1.81	-1.82	-1.80
7.81	-1.82	-1.84	-1.82
7.94	-1.84	-1.85	-1.83
8.08	-1.86	-1.88	-1.85
8.22	-1.87	-1.90	-1.87
8.37	-1.89	-1.92	-1.89
8.51	-1.91	-1.93	-1.90
8.66	-1.93	-1.94	-1.92
8.81	-1.94	-1.96	-1.94
8.96	-1.97	-1.98	-1.96
9.12	-1.99	-2.00	-1.98
9.28	-2.01	-2.03	-2.00
9.44	-2.03	-2.05	-2.03
9.61	-2.05	-2.06	-2.05
9.77	-2.07	-2.09	-2.07
9.94	-2.09	-2.11	-2.08
10.12	-2.11	-2.12	-2.10
10.29	-2.12	-2.13	-2.12
10.47	-2.14	-2.15	-2.13
10.65	-2.15	-2.17	-2.15
10.84	-2.17	-2.18	-2.16
11.03	-2.18	-2.19	-2.17
11.22	-2.19	-2.20	-2.18
11.42	-2.20	-2.22	-2.20
11.61	-2.22	-2.23	-2.21
11.82	-2.23	-2.25	-2.23
12.02	-2.25	-2.27	-2.25

12.23	-2.27	-2.29	-2.27
12.45	-2.30	-2.32	-2.29
12.66	-2.32	-2.34	-2.31
12.88	-2.34	-2.36	-2.33
13.11	-2.37	-2.38	-2.35
13.34	-2.39	-2.40	-2.38
13.57	-2.42	-2.43	-2.41
13.80	-2.44	-2.45	-2.43
14.04	-2.47	-2.47	-2.46
14.29	-2.49	-2.50	-2.48
14.54	-2.51	-2.51	-2.50
14.79	-2.53	-2.53	-2.51
15.05	-2.55	-2.55	-2.53
15.31	-2.56	-2.57	-2.54
15.58	-2.58	-2.59	-2.56
15.85	-2.59	-2.61	-2.58
16.12	-2.61	-2.63	-2.59
16.41	-2.64	-2.67	-2.61
16.69	-2.67	-2.72	-2.64
16.98	-2.69	-2.73	-2.67
17.28	-2.70	-2.75	-2.70
17.58	-2.72	-2.77	-2.73
17.89	-2.75	-2.80	-2.76
18.20	-2.78	-2.82	-2.79
18.51	-2.80	-2.85	-2.81
18.84	-2.83	-2.87	-2.84
19.16	-2.85	-2.88	-2.86
19.50	-2.87	-2.90	-2.87
19.84	-2.89	-2.92	-2.89
20.18	-2.92	-2.95	-2.91
20.54	-2.95	-2.98	-2.94
20.89	-3.00	-3.03	-2.97
21.26	-3.03	-3.05	-2.99
21.63	-3.05	-3.06	-3.02
22.00	-3.08	-3.08	-3.05
22.39	-3.11	-3.11	-3.08
22.78	-3.14	-3.14	-3.10
23.17	-3.17	-3.17	-3.13
23.58	-3.19	-3.19	-3.15
23.99	-3.21	-3.22	-3.18
24.41	-3.24	-3.25	-3.21
24.83	-3.29	-3.31	-3.27
25.26	-3.34	-3.37	-3.31
25.70	-3.33	-3.37	-3.32
26.15	-3.34	-3.38	-3.34
26.61	-3.36	-3.40	-3.37
27.07	-3.39	-3.43	-3.40
27.54	-3.42	-3.45	-3.43
28.02	-3.45	-3.48	-3.45
28.51	-3.48	-3.50	-3.48
29.01	-3.53	-3.56	-3.54

29.51	-3.60	-3.61	-3.57
30.03	-3.60	-3.62	-3.58
30.55	-3.62	-3.64	-3.61
31.08	-3.65	-3.68	-3.64
31.62	-3.69	-3.71	-3.67
32.17	-3.71	-3.74	-3.69
32.73	-3.75	-3.78	-3.72
33.30	-3.82	-3.86	-3.77
33.88	-3.89	-3.92	-3.80
34.47	-3.88	-3.90	-3.83
35.08	-3.89	-3.91	-3.87
35.69	-3.93	-3.94	-3.90
36.31	-3.96	-3.97	-3.93
36.94	-4.00	-4.03	-3.97
37.58	-4.07	-4.16	-4.05
38.24	-4.10	-4.22	-4.06
38.90	-4.08	-4.18	-4.07
39.58	-4.11	-4.20	-4.11
40.27	-4.14	-4.22	-4.14
40.97	-4.19	-4.25	-4.19
41.69	-4.26	-4.32	-4.25
42.41	-4.36	-4.40	-4.30
43.15	-4.33	-4.38	-4.30
43.90	-4.34	-4.40	-4.34
44.67	-4.38	-4.43	-4.37
45.45	-4.42	-4.48	-4.42
46.24	-4.53	-4.58	-4.49
47.04	-4.57	-4.60	-4.50
47.86	-4.58	-4.62	-4.54
48.70	-4.62	-4.67	-4.58
49.54	-4.67	-4.73	-4.65
50.41	-4.73	-4.87	-4.79
51.29	-4.76	-4.87	-4.75
52.18	-4.76	-4.83	-4.76
53.09	-4.80	-4.87	-4.81
54.01	-4.87	-4.97	-4.90
54.95	-5.00	-5.14	-5.03
55.91	-4.99	-5.08	-4.95
56.89	-5.00	-5.07	-4.97
57.88	-5.05	-5.14	-5.06
58.88	-5.19	-5.31	-5.24
59.91	-5.25	-5.29	-5.17
60.95	-5.25	-5.24	-5.16
62.02	-5.32	-5.31	-5.22
63.10	-5.43	-5.57	-5.35
64.19	-5.39	-5.56	-5.31
65.31	-5.35	-5.49	-5.32
66.45	-5.40	-5.57	-5.38
67.61	-5.53	-5.80	-5.50
68.79	-5.52	-5.70	-5.49
69.98	-5.58	-5.72	-5.54

71.20	-5.81	-6.04	-5.69
72.44	-6.07	-6.18	-5.71
73.71	-5.87	-5.92	-5.69
74.99	-5.87	-5.91	-5.77
76.30	-6.04	-6.11	-5.88
77.62	-6.00	-6.07	-5.85
78.98	-6.08	-6.09	-5.94
80.35	-6.33	-6.18	-6.05
81.75	-6.14	-6.12	-5.98
83.18	-6.12	-6.15	-6.04
84.63	-6.36	-6.36	-6.23
86.10	-6.31	-6.35	-6.21
87.60	-6.36	-6.43	-6.33
89.12	-6.63	-6.74	-6.53
90.68	-6.51	-6.60	-6.40
92.26	-6.73	-6.83	-6.55
93.86	-7.06	-7.06	-6.62
95.50	-6.76	-6.77	-6.59
97.16	-6.99	-6.86	-6.84
98.86	-6.98	-6.90	-6.74
100.58	-7.11	-7.03	-6.92
102.33	-7.52	-7.25	-7.00
104.11	-7.14	-7.22	-6.91
105.93	-7.34	-7.72	-7.11
107.77	-7.18	-7.49	-7.05
109.65	-7.39	-7.90	-7.16
111.56	-7.43	-7.90	-7.16
113.50	-7.39	-7.89	-7.26
115.48	-7.62	-8.03	-7.32
117.49	-7.52	-7.87	-7.44
119.54	-7.77	-8.12	-7.47
121.62	-7.80	-8.01	-7.64
123.74	-8.26	-8.33	-7.74
125.89	-7.93	-8.37	-8.10
128.09	-8.09	-8.96	-8.20
130.32	-7.98	-8.89	-8.03
132.59	-8.41	-9.32	-8.19
134.90	-8.79	-9.38	-8.57
137.25	-8.93	-9.45	-8.44
139.64	-8.69	-10.00	-8.68
142.07	-8.74	-9.56	-8.53
144.54	-8.91	-9.83	-8.78
147.06	-9.08	-9.64	-8.59
149.62	-9.59	-9.76	-8.59
152.23	-9.17	-9.73	-9.11
154.88	-9.09	-9.64	-8.78
157.58	-9.21	-10.13	-9.11
160.32	-9.29	-10.35	-9.60
163.12	-9.56	-10.40	-9.51
165.96	-9.61	-10.69	-10.14
168.85	-9.69	-10.95	-10.00

171.79	-9.84	-10.85	-9.34
174.78	-9.90	-11.31	-9.49
177.83	-9.99	-11.16	-9.49
180.93	-10.15	-11.04	-9.49
184.08	-10.59	-11.28	-9.55
187.28	-10.87	-11.50	-10.10
190.55	-10.47	-12.02	-9.87
193.86	-10.81	-12.37	-10.10
197.24	-11.14	-12.27	-10.19
200.68	-11.35	-11.86	-10.36
204.17	-11.23	-12.72	-11.72
207.73	-11.67	-12.23	-10.97
211.35	-11.91	-12.90	-12.01
215.03	-12.31	-14.13	-11.79
218.78	-13.31	-13.80	-12.37
222.59	-13.28	-14.09	-12.76
226.46	-13.89	-14.09	-12.56
230.41	-13.10	-14.30	-12.24
234.42	-13.11	-13.57	-13.02
238.51	-13.14	-14.22	-13.07
242.66	-12.52	-15.15	-15.50
246.89	-13.05	-14.78	-15.09
251.19	-13.88	-14.69	-13.86
255.56	-14.13	-14.85	-12.94
260.02	-14.16	-15.67	-13.85
264.54	-14.41	-15.97	-14.19
269.15	-15.11	-15.17	-14.70
273.84	-14.24	-15.71	-14.54
278.61	-13.52	-16.34	-14.20
283.46	-15.07	-16.61	-14.72
288.40	-13.91	-17.38	-13.91
293.43	-13.49	-18.75	-15.95
298.54	-14.62	-16.13	-15.14
303.74	-14.87	-16.61	-15.63
309.03	-15.39	-18.17	-14.68
314.41	-16.17	-19.58	-15.11
319.89	-16.36	-19.84	-17.00
325.46	-15.49	-19.58	-15.21
331.13	-15.19	-21.50	-15.54
336.90	-16.73	-18.31	-16.78
342.77	-16.48	-19.79	-19.07
348.74	-17.03	-19.71	-18.89
354.81	-17.66	-18.10	-17.23
360.99	-17.60	-19.79	-17.67
367.28	-19.60	-21.68	-18.66
373.68	-17.56	-21.63	-19.02
380.19	-18.38	-22.51	-18.46
386.81	-18.75	-24.87	-20.00
393.55	-18.71	-27.10	-18.58
400.40	-17.75	-29.54	-20.38
407.38	-18.65	-25.86	-23.58

414.48	-20.01	-27.91	-22.74
421.70	-20.65	-28.93	-20.59
429.04	-22.51	-35.84	-22.90
436.51	-22.79	-28.16	-21.40
444.12	-21.43	-31.21	-22.80
451.86	-21.06	-27.94	-21.12
459.73	-20.87	-26.75	-25.00
467.73	-20.21	-25.80	-21.58
475.88	-21.27	-25.15	-22.05
484.17	-22.49	-28.92	-22.49
492.61	-23.58	-27.19	-25.91
501.19	-23.19	-31.55	-25.49
509.92	-21.45	-28.53	-26.78
518.80	-23.19	-28.79	-26.29
527.84	-27.40	-38.57	-28.14
537.03	-25.73	-53.08	-24.52
546.39	-23.98	-36.26	-21.54
555.90	-23.68	-36.89	-27.30
565.59	-27.31	-46.84	-24.95
575.44	-26.02	-34.14	-24.44
585.46	-23.38	-34.20	-24.00
595.66	-23.27	-37.18	-25.33
606.04	-24.73	-30.93	-25.39
616.59	-27.14	-33.46	-22.70
627.33	-32.71	-28.77	-22.95
638.26	-31.07	-31.60	-23.98
649.38	-25.33	-31.12	-25.65
660.69	-28.37	-31.48	-24.06
672.20	-28.79	-32.89	-25.70
683.91	-27.55	-44.52	-33.25
695.82	-27.88	-37.73	-30.14
707.94	-26.68	-31.36	-27.78
720.28	-25.91	-34.66	-29.06
732.82	-27.50	-31.55	-30.78
745.59	-26.56	-42.70	-29.60
758.58	-29.23	-34.62	-35.01
771.79	-33.62	-35.25	-30.25
785.23	-28.09	-33.22	-29.28
798.91	-29.44	-35.68	-29.84
812.83	-33.44	-35.53	-32.29
826.99	-28.60	-36.77	-34.63
841.39	-29.94	-30.96	-42.83
856.05	-28.83	-28.69	-34.06
870.96	-28.74	-31.26	-34.85
886.13	-29.47	-29.26	-35.82
901.57	-28.67	-28.16	-30.94
917.27	-28.41	-28.13	-30.16
933.25	-30.00	-28.49	-32.25
949.51	-34.69	-35.27	-32.86
966.05	-33.29	-29.45	-32.95
982.88	-30.88	-31.54	-37.92

1000.00	-29.41	-29.76	-38.40
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FLAT SPECTRA STRIP Cable (ATTN in dB)

	White / Blue	White / Orange
10	-2.4	-2.44
20	-3.03	-3.22
30	-3.66	-3.69
40	-4.06	-4.1
50	-4.53	-4.65
60	-5.06	-5.22
70	-6.59	-6.67
80	-6.18	-6.34
90	-6.74	-7.23
100	-7.1	-7.48
110	-7.58	-7.88
120	-7.82	-8.55
130	-8.11	-8.6
140	-8.36	-9.24
150	-8.62	-9.01
160	-8.6	-8.99
170	-9.13	-9.24
180	-9.5	-9.8
190	-9.96	-10.83
200	-10.09	-10.59
210	-10.74	-11.2
220	-10.88	-12.19
230	-11.92	-12.2
240	-11.49	-13.62
250	-11.66	-13.18
260	-11.82	-13.7
270	-13.7	-13.48
280	-12.93	-14.16
290	-12.93	-15.24
300	-14.24	-14.66
310	-15.3	-15.44
320	-14.56	-18.05
330	-16.4	-17.46
340	-15.34	-15.96
350	-15.15	-16.18
360	-15.52	-18.89
370	-15.81	-16.78
380	-15.04	-16.08
390	-15.41	-18.16
400	-15.61	-19.52
410	-16.71	-19.04
420	-16.11	-19.28
430	-17.43	-19.84
440	-17.1	-19.49
450	-18.18	-20.99
460	-18.09	-23.21
470	-17.38	-24.28
480	-17.84	-20.47

490	-19.2	-22.15
500	-17.7	-23.07
510	-17.96	-22.36
520	-18.11	-23.19
530	-18.52	-24.7
540	-18.75	-22.41
550	-19.53	-22.23
560	-19.86	-24.68
570	-20.25	-23.82
580	-20.87	-24
590	-19.95	-24.92
600	-22.37	-25.08
610	-21.75	-26.25
620	-23.48	-24.47
630	-21.91	-26.16
640	-22.17	-25.89
650	-23.95	-26.99
660	-24	-25.96
670	-23.75	-25.96
680	-22.96	-27.1
690	-23.5	-27.22
700	-24.53	-26.74
710	-25.63	-27.05
720	-26.21	-27.48
730	-24.58	-28.91
740	-22.98	-27.56
750	-23.93	-27.75
760	-23.66	-29.7
770	-25.36	-30.77
780	-25	-31.73
790	-27.09	-31.11
800	-28.4	-32.36
810	-27.48	-34.12
820	-28.94	-39.59
830	-25.27	-32.33
840	-23.87	-29.69
850	-25.59	-28.21
860	-26.9	-28.34
870	-26.33	-29.85
880	-26.45	-34.79
890	-26.45	-33.69
900	-29.01	-34.86
910	-27.91	-31.52
920	-28.86	-33.36
930	-29.38	-34.82
940	-29.01	-35.59
950	-29.99	-35.88
960	-30.26	-34.13
970	-29.11	-31.54
980	-29.44	-32.45
990	-30.04	-36.54

1000

-28.75

-36.72

HP4396A REV3.01
DATE: Feb 7 2002

CHANNEL: 1
MEASURE TYPE: S21
FORMAT TYPE: LOG MAG
NUMBER of POINTS: 401
SWEEP TIME: 27 s
SWEEP TYPE: LOG FREQ
SOURCE POWER: 0 dBm
IF BANDWIDTH: 30 Hz

Frequency	blue / white	orange / white 1	orange / white 2
1.00	-0.84	-0.84	-0.84
1.02	-0.85	-0.85	-0.84
1.04	-0.85	-0.85	-0.84
1.06	-0.85	-0.85	-0.85
1.08	-0.86	-0.86	-0.86
1.10	-0.87	-0.87	-0.86
1.12	-0.87	-0.87	-0.87
1.14	-0.87	-0.88	-0.87
1.16	-0.88	-0.88	-0.87
1.18	-0.88	-0.88	-0.88
1.20	-0.89	-0.89	-0.88
1.22	-0.89	-0.89	-0.89
1.24	-0.90	-0.90	-0.89
1.26	-0.90	-0.90	-0.90
1.28	-0.90	-0.90	-0.90
1.30	-0.91	-0.91	-0.91
1.32	-0.91	-0.91	-0.91
1.34	-0.92	-0.92	-0.92
1.37	-0.92	-0.93	-0.92
1.39	-0.93	-0.93	-0.92
1.42	-0.93	-0.94	-0.93
1.45	-0.94	-0.94	-0.94
1.47	-0.94	-0.94	-0.94
1.50	-0.95	-0.95	-0.94
1.53	-0.95	-0.96	-0.95
1.55	-0.96	-0.96	-0.96
1.58	-0.96	-0.97	-0.96
1.61	-0.97	-0.97	-0.96
1.63	-0.97	-0.97	-0.97
1.66	-0.98	-0.98	-0.97
1.69	-0.98	-0.98	-0.98
1.71	-0.99	-0.99	-0.98
1.74	-0.99	-0.99	-0.99
1.77	-1.00	-1.00	-0.99
1.80	-1.00	-1.00	-0.99
1.83	-1.00	-1.01	-1.00

1.87	-1.01	-1.01	-1.01
1.91	-1.01	-1.01	-1.01
1.94	-1.02	-1.02	-1.02
1.98	-1.02	-1.02	-1.02
2.01	-1.03	-1.03	-1.03
2.05	-1.03	-1.03	-1.03
2.08	-1.04	-1.04	-1.03
2.12	-1.04	-1.04	-1.04
2.15	-1.05	-1.05	-1.05
2.19	-1.05	-1.05	-1.05
2.22	-1.06	-1.06	-1.05
2.26	-1.06	-1.06	-1.06
2.30	-1.06	-1.07	-1.06
2.33	-1.07	-1.07	-1.07
2.37	-1.07	-1.08	-1.07
2.42	-1.08	-1.08	-1.07
2.47	-1.08	-1.09	-1.08
2.51	-1.09	-1.09	-1.09
2.56	-1.09	-1.09	-1.09
2.61	-1.10	-1.10	-1.10
2.65	-1.11	-1.11	-1.10
2.70	-1.11	-1.11	-1.11
2.75	-1.12	-1.12	-1.11
2.80	-1.12	-1.12	-1.12
2.84	-1.13	-1.13	-1.13
2.89	-1.13	-1.14	-1.13
2.94	-1.14	-1.14	-1.14
2.98	-1.15	-1.15	-1.15
3.03	-1.15	-1.16	-1.15
3.08	-1.16	-1.16	-1.16
3.13	-1.17	-1.17	-1.16
3.18	-1.17	-1.18	-1.17
3.24	-1.18	-1.19	-1.18
3.31	-1.19	-1.19	-1.19
3.37	-1.20	-1.20	-1.20
3.43	-1.21	-1.21	-1.21
3.50	-1.22	-1.22	-1.22
3.56	-1.23	-1.24	-1.23
3.62	-1.24	-1.25	-1.24
3.69	-1.26	-1.26	-1.25
3.75	-1.27	-1.27	-1.26
3.81	-1.28	-1.28	-1.28
3.88	-1.29	-1.29	-1.29
3.94	-1.30	-1.31	-1.30
4.00	-1.32	-1.32	-1.31
4.07	-1.33	-1.34	-1.33
4.13	-1.34	-1.35	-1.34
4.19	-1.35	-1.36	-1.35
4.27	-1.37	-1.37	-1.36
4.35	-1.38	-1.39	-1.38
4.43	-1.40	-1.40	-1.40

4.52	-1.42	-1.42	-1.42
4.60	-1.43	-1.44	-1.43
4.69	-1.45	-1.45	-1.45
4.77	-1.46	-1.47	-1.47
4.85	-1.48	-1.49	-1.48
4.94	-1.50	-1.50	-1.50
5.02	-1.51	-1.52	-1.52
5.11	-1.53	-1.53	-1.53
5.19	-1.54	-1.55	-1.55
5.27	-1.56	-1.56	-1.56
5.36	-1.57	-1.58	-1.57
5.44	-1.58	-1.59	-1.59
5.53	-1.59	-1.60	-1.60
5.62	-1.61	-1.62	-1.61
5.74	-1.62	-1.63	-1.63
5.85	-1.64	-1.65	-1.64
5.96	-1.65	-1.66	-1.65
6.07	-1.66	-1.67	-1.67
6.18	-1.67	-1.68	-1.68
6.29	-1.68	-1.69	-1.69
6.41	-1.69	-1.70	-1.70
6.52	-1.70	-1.71	-1.70
6.63	-1.71	-1.72	-1.71
6.74	-1.72	-1.72	-1.72
6.85	-1.72	-1.73	-1.73
6.97	-1.73	-1.74	-1.74
7.08	-1.74	-1.75	-1.74
7.19	-1.75	-1.76	-1.75
7.30	-1.76	-1.77	-1.76
7.41	-1.77	-1.78	-1.77
7.54	-1.78	-1.79	-1.78
7.69	-1.79	-1.80	-1.80
7.84	-1.81	-1.82	-1.81
7.99	-1.83	-1.84	-1.83
8.14	-1.85	-1.86	-1.85
8.29	-1.87	-1.89	-1.88
8.44	-1.89	-1.91	-1.89
8.59	-1.91	-1.92	-1.91
8.74	-1.94	-1.94	-1.93
8.89	-1.96	-1.96	-1.95
9.04	-1.98	-1.98	-1.97
9.19	-2.00	-2.00	-1.99
9.34	-2.02	-2.02	-2.01
9.49	-2.04	-2.04	-2.03
9.64	-2.06	-2.06	-2.05
9.79	-2.08	-2.08	-2.07
9.94	-2.10	-2.09	-2.09
10.12	-2.12	-2.11	-2.11
10.32	-2.13	-2.13	-2.12
10.51	-2.15	-2.15	-2.14
10.71	-2.16	-2.16	-2.15

10.91	-2.17	-2.17	-2.16
11.11	-2.18	-2.18	-2.17
11.31	-2.19	-2.20	-2.19
11.51	-2.20	-2.21	-2.20
11.71	-2.22	-2.22	-2.21
11.91	-2.23	-2.24	-2.23
12.11	-2.25	-2.26	-2.25
12.31	-2.27	-2.28	-2.27
12.51	-2.30	-2.31	-2.29
12.71	-2.32	-2.32	-2.31
12.91	-2.34	-2.34	-2.33
13.11	-2.36	-2.36	-2.35
13.34	-2.39	-2.38	-2.37
13.60	-2.42	-2.41	-2.41
13.87	-2.45	-2.44	-2.43
14.13	-2.48	-2.46	-2.46
14.40	-2.50	-2.49	-2.48
14.66	-2.53	-2.50	-2.50
14.93	-2.54	-2.52	-2.52
15.19	-2.55	-2.54	-2.53
15.46	-2.56	-2.55	-2.54
15.72	-2.58	-2.57	-2.56
15.99	-2.59	-2.59	-2.57
16.25	-2.61	-2.62	-2.59
16.52	-2.63	-2.66	-2.61
16.78	-2.66	-2.70	-2.64
17.05	-2.68	-2.71	-2.66
17.31	-2.70	-2.72	-2.69
17.58	-2.72	-2.74	-2.72
17.89	-2.75	-2.77	-2.75
18.24	-2.78	-2.80	-2.78
18.60	-2.81	-2.82	-2.81
18.95	-2.83	-2.85	-2.83
19.31	-2.85	-2.86	-2.85
19.66	-2.87	-2.88	-2.87
20.02	-2.89	-2.90	-2.89
20.38	-2.92	-2.93	-2.91
20.73	-2.96	-2.98	-2.94
21.09	-3.01	-3.02	-2.97
21.44	-3.03	-3.03	-2.99
21.80	-3.05	-3.04	-3.02
22.15	-3.09	-3.07	-3.05
22.51	-3.12	-3.09	-3.08
22.87	-3.14	-3.11	-3.10
23.22	-3.16	-3.14	-3.12
23.58	-3.18	-3.16	-3.14
23.99	-3.19	-3.18	-3.16
24.46	-3.22	-3.22	-3.20
24.93	-3.27	-3.29	-3.26
25.41	-3.33	-3.35	-3.31
25.88	-3.33	-3.35	-3.31

26.35	-3.36	-3.36	-3.34
26.83	-3.39	-3.39	-3.37
27.30	-3.42	-3.41	-3.40
27.77	-3.44	-3.43	-3.42
28.24	-3.46	-3.45	-3.44
28.72	-3.49	-3.49	-3.48
29.19	-3.53	-3.54	-3.54
29.66	-3.58	-3.60	-3.57
30.14	-3.58	-3.60	-3.58
30.61	-3.60	-3.62	-3.60
31.08	-3.63	-3.64	-3.62
31.62	-3.67	-3.67	-3.65
32.25	-3.70	-3.70	-3.68
32.88	-3.74	-3.75	-3.71
33.51	-3.83	-3.86	-3.76
34.14	-3.88	-3.90	-3.81
34.77	-3.89	-3.89	-3.84
35.40	-3.93	-3.91	-3.88
36.03	-3.95	-3.94	-3.92
36.65	-3.97	-3.96	-3.94
37.28	-4.01	-4.04	-3.98
37.91	-4.08	-4.18	-4.06
38.54	-4.10	-4.17	-4.05
39.17	-4.11	-4.14	-4.07
39.80	-4.15	-4.15	-4.09
40.43	-4.18	-4.17	-4.12
41.06	-4.20	-4.20	-4.16
41.69	-4.25	-4.26	-4.22
42.41	-4.35	-4.36	-4.28
43.26	-4.34	-4.34	-4.28
44.10	-4.37	-4.36	-4.31
44.94	-4.40	-4.39	-4.34
45.79	-4.45	-4.45	-4.42
46.63	-4.57	-4.56	-4.49
47.47	-4.60	-4.57	-4.50
48.32	-4.66	-4.59	-4.54
49.16	-4.68	-4.63	-4.58
50.01	-4.69	-4.72	-4.68
50.85	-4.74	-4.88	-4.79
51.69	-4.74	-4.81	-4.75
52.54	-4.78	-4.79	-4.75
53.38	-4.83	-4.82	-4.79
54.22	-4.89	-4.92	-4.88
55.07	-5.00	-5.11	-5.02
55.91	-5.01	-5.06	-4.96
56.89	-5.03	-5.01	-4.96
58.01	-5.08	-5.07	-5.04
59.13	-5.21	-5.31	-5.25
60.25	-5.23	-5.30	-5.20
61.37	-5.27	-5.24	-5.18
62.49	-5.34	-5.33	-5.23

63.61	-5.43	-5.61	-5.36
64.73	-5.34	-5.48	-5.32
65.86	-5.36	-5.45	-5.33
66.98	-5.43	-5.57	-5.41
68.10	-5.54	-5.80	-5.51
69.22	-5.54	-5.67	-5.50
70.34	-5.64	-5.71	-5.53
71.46	-5.87	-6.05	-5.69
72.58	-6.06	-6.14	-5.70
73.71	-5.94	-5.90	-5.67
74.99	-5.93	-5.84	-5.71
76.48	-6.03	-6.08	-5.87
77.97	-5.98	-5.98	-5.83
79.46	-6.11	-5.97	-5.93
80.96	-6.29	-6.12	-6.04
82.45	-6.09	-6.09	-6.02
83.94	-6.19	-6.17	-6.09
85.43	-6.35	-6.33	-6.24
86.92	-6.24	-6.28	-6.24
88.41	-6.41	-6.52	-6.42
89.91	-6.53	-6.68	-6.45
91.40	-6.47	-6.57	-6.40
92.89	-6.80	-6.98	-6.61
94.38	-6.96	-7.00	-6.58
95.87	-6.79	-6.74	-6.57
97.36	-6.99	-6.84	-6.81
98.86	-6.95	-6.92	-6.73
100.58	-7.03	-6.96	-6.82
102.58	-7.47	-7.25	-7.07
104.58	-7.12	-7.20	-6.93
106.58	-7.31	-7.67	-7.12
108.58	-7.15	-7.45	-7.07
110.58	-7.43	-8.09	-7.17
112.58	-7.28	-7.70	-7.13
114.58	-7.50	-8.17	-7.32
116.58	-7.49	-7.87	-7.34
118.58	-7.65	-8.10	-7.49
120.58	-7.66	-7.94	-7.46
122.58	-7.98	-8.14	-7.73
124.58	-8.08	-8.27	-7.70
126.58	-7.93	-8.46	-8.23
128.59	-8.05	-8.90	-8.09
130.59	-7.96	-8.80	-7.97
132.59	-8.25	-9.49	-8.27
134.90	-8.56	-9.18	-8.46
137.56	-8.84	-9.36	-8.40
140.21	-8.71	-10.11	-8.71
142.87	-8.77	-9.65	-8.59
145.53	-8.93	-9.70	-8.65
148.19	-9.25	-9.91	-8.65
150.85	-9.40	-9.91	-8.72

153.51	-9.25	-9.87	-8.89
156.17	-8.97	-9.72	-8.82
158.83	-9.12	-10.02	-9.07
161.49	-9.40	-10.64	-9.68
164.15	-9.40	-10.30	-9.59
166.81	-9.57	-10.75	-10.11
169.47	-9.70	-11.04	-9.98
172.12	-9.76	-10.86	-9.30
174.78	-9.70	-11.53	-9.63
177.83	-9.96	-11.14	-9.39
181.37	-9.86	-10.97	-9.42
184.90	-10.54	-11.32	-9.57
188.44	-10.73	-11.17	-9.91
191.98	-10.52	-12.70	-9.82
195.51	-11.17	-12.94	-10.27
199.05	-10.72	-11.72	-9.92
202.59	-11.35	-12.05	-10.99
206.13	-11.39	-12.31	-11.11
209.66	-12.06	-12.00	-10.89
213.20	-11.89	-14.02	-12.19
216.74	-12.45	-14.24	-11.75
220.27	-12.83	-14.69	-12.68
223.81	-13.34	-14.57	-12.82
227.35	-13.48	-14.11	-12.58
230.89	-12.81	-14.63	-12.24
234.42	-12.98	-13.87	-13.24
238.51	-13.03	-14.59	-13.15
243.25	-12.58	-15.12	-15.22
247.99	-13.18	-14.71	-14.62
252.74	-14.02	-14.36	-13.40
257.48	-14.35	-14.86	-13.33
262.23	-14.56	-15.60	-14.37
266.97	-14.91	-15.89	-13.68
271.72	-14.24	-16.17	-15.34
276.46	-13.50	-16.95	-13.92
281.20	-13.49	-18.03	-14.99
285.95	-14.49	-16.79	-14.51
290.69	-13.86	-18.43	-13.96
295.44	-13.77	-17.30	-15.98
300.18	-14.22	-15.72	-15.46
304.92	-14.65	-16.90	-16.24
309.67	-15.14	-18.25	-14.90
314.41	-16.21	-19.91	-15.05
319.89	-15.72	-20.64	-16.84
326.20	-15.26	-19.60	-15.22
332.50	-15.13	-21.61	-15.33
338.81	-16.31	-18.37	-16.67
345.11	-16.54	-20.02	-20.16
351.42	-17.16	-18.72	-19.21
357.72	-16.93	-18.18	-18.34
364.03	-18.54	-20.86	-18.38

370.34	-18.63	-22.09	-17.90
376.64	-16.96	-23.83	-18.54
382.95	-17.08	-24.70	-18.07
389.25	-18.45	-26.89	-19.51
395.56	-18.58	-27.02	-18.28
401.86	-17.95	-28.24	-19.74
408.17	-18.70	-25.54	-24.43
414.48	-19.17	-28.59	-22.31
421.70	-20.38	-27.31	-21.30
430.08	-22.14	-36.14	-23.07
438.47	-22.11	-28.23	-22.36
446.86	-21.55	-29.23	-23.45
455.25	-21.83	-26.83	-22.61
463.64	-20.70	-24.29	-26.58
472.02	-20.36	-26.10	-22.44
480.41	-22.23	-27.70	-23.35
488.80	-22.64	-30.57	-23.91
497.19	-22.78	-31.21	-26.29
505.58	-23.63	-34.93	-27.16
513.96	-21.62	-31.76	-31.78
522.35	-24.24	-31.09	-28.54
530.74	-27.52	-36.44	-31.51
539.13	-25.54	-34.59	-28.47
547.52	-23.55	-43.39	-22.72
555.90	-23.12	-35.46	-29.60
565.59	-25.75	-41.84	-28.49
576.84	-24.26	-35.44	-27.92
588.09	-23.06	-40.86	-24.61
599.34	-24.85	-34.97	-28.11
610.59	-22.80	-33.84	-29.91
621.84	-28.12	-38.51	-22.98
633.09	-43.52	-26.79	-25.56
644.34	-27.88	-39.05	-30.03
655.59	-22.58	-32.57	-23.99
666.84	-30.74	-26.34	-24.07
678.09	-30.86	-35.79	-29.98
689.34	-21.95	-30.10	-25.26
700.59	-23.72	-26.34	-23.36
711.84	-34.73	-22.09	-25.46
723.09	-21.48	-31.16	-24.55
734.34	-21.85	-20.29	-22.87
745.59	-28.69	-20.56	-22.43
758.58	-16.28	-20.53	-17.12
773.67	-19.52	-17.19	-17.83
788.76	-15.45	-12.55	-12.26
803.84	-11.21	-12.30	-11.56
818.93	-13.71	-13.29	-12.76
834.02	-15.95	-12.45	-12.97
849.11	-13.06	-12.12	-13.65
864.20	-12.40	-13.32	-13.21
879.29	-14.92	-15.13	-13.61

894.38	-15.73	-14.00	-13.10
909.47	-13.31	-12.28	-13.17
924.56	-12.97	-12.46	-13.24
939.64	-14.81	-13.69	-14.67
954.73	-14.11	-12.15	-13.04
969.82	-13.01	-11.26	-12.00
984.91	-11.86	-10.69	-12.35
1000.00	-14.00	-11.98	-11.69