



REPORT INTERTEK ETL SEMKO

3933 US ROUTE 11, CORTLAND, NEW YORK 13045

ORDER NO.: 3050088-406

DATE: October 27, 2003

REPORT NO.: 3050088-001

RENDERED TO:

Coble Enterprise Co., Ltd.
5F, No. 41, Cheng Ho St.
Lujou City, Taipei Hsien
Taiwan, R.O.C

TEST: Initial Qualification Testing of 100 Ω , 4 Pair Telecommunications Modular Patch Cable to the requirements of TIA/EIA 568-B.2-1 for Category 6 Cable.

STATEMENT OF LIMITATIONS: At the client's request, the purpose of this report is to provide electrical performance data on the test sample. It is not valid to use this report for any other purpose.

STANDARDS USED:

ASTM D4566-98, dated December 10, 1998, Standard Test Methods for Electrical Performance Properties of Insulations and Jackets for Telecommunications Wire and Cable

TIA/EIA-568-B.2-1, dated June, 2002, Commercial Building Telecommunications Cabling Standard Part 2: Balanced Twisted-Pair Cabling Components.

AUTHORIZATION: The tests were authorized by Mr. Michael Chen, representing the client, Coble enterprise Co., Ltd.

SPECIMEN DESCRIPTION: The client supplied (5) five (3) meter, Cat. 6 Modular Patch Cables Identified as Part Number COB-C6PL03.

DATE OF TEST: October 24, 2003

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EQUIPMENT LIST:

The following equipment was employed in conducting the tests.

<u>Equipment Used</u>	<u>Model Number</u>	<u>Serial Number</u>	<u>Calibration Date</u>	<u>Calibration Due Date</u>
Hewlett Packard Network Analyzer	HP8753E	US38161404	03/13/03	03/13/04

PROCEDURE:**Measurements**NEXT

NEXT measurements were made between the six combinations of the four conductor pairs, from both ends, in accordance with ASTM D4566-98, Paragraph 24.

Return Loss

Return Loss was measured in accordance with ASTM D4566-98, Paragraph 45.3.

REQUIREMENTS AND RESULTS:**Measurements**NEXT

Near-End Crosstalk was tested to the requirements of ANSI/TIA/EIA-568-B.2-1, Annex J Paragraph 7.2.1.2

Return Loss

Return Loss was tested to the requirements of ANSI/TIA/EIA-568-B.2-1, Annex J Paragraph 7.4.3

Test Heads

The test heads that were used in this test came from Superior Modular Products and did comply with the indicated applicable transmission requirements of Annex J


See Appendix A for Test Results.

CONCLUSION:

The Patch Cords, as previously described and supplied by the client, were tested in accordance with the procedures contained herein, and did comply with the indicated applicable transmission requirements.

These Procedures and Requirements were taken from the Standards referred to on Page 1.

Reviewed and Approved By:



Robert Southworth
Lab Supervisor
Communications Products



Dean Beverley
Technician
Communications Products



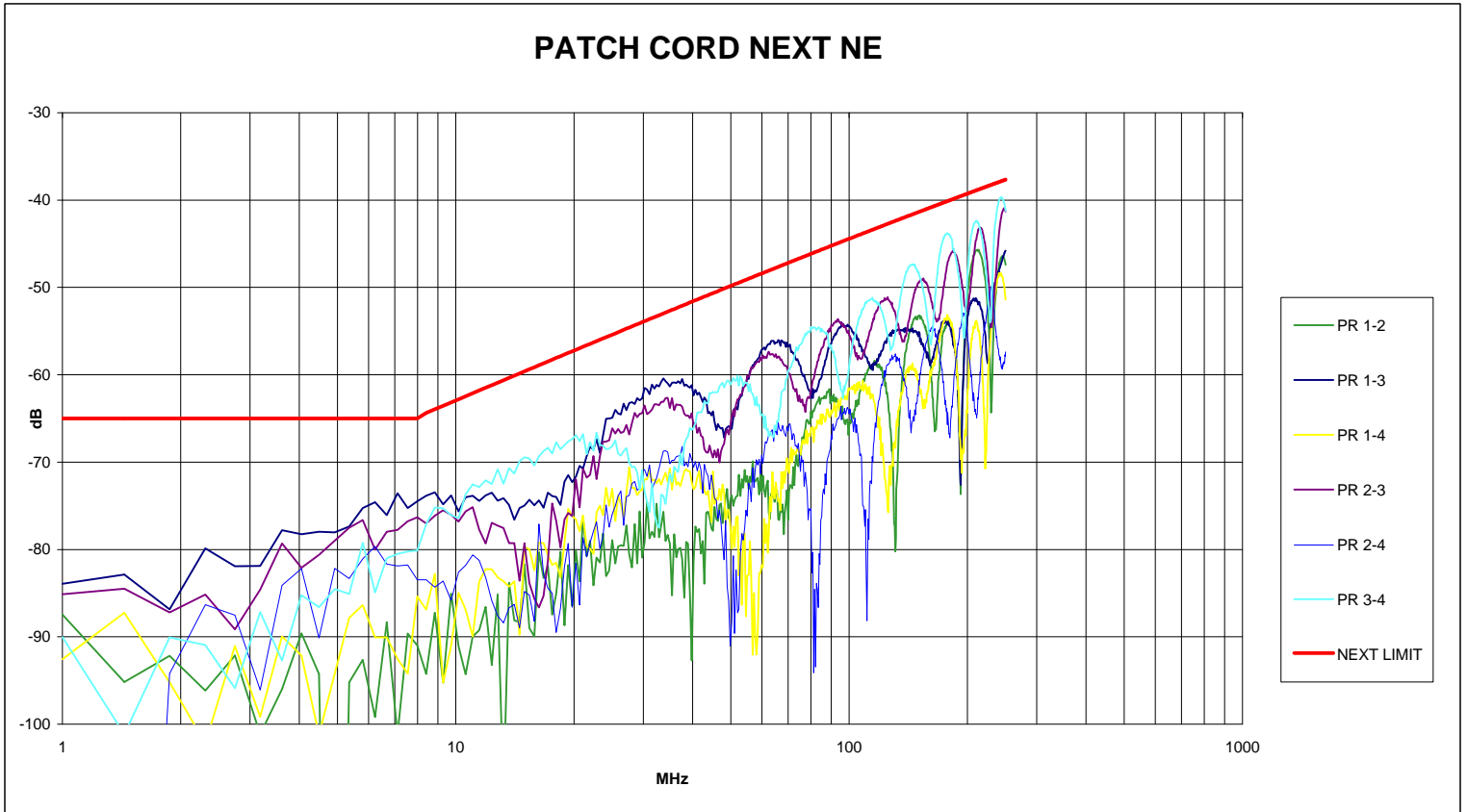
Kathy Heath
Program Administrator
Communications Products

Appendix A
Test Results

Any data reported above 250 MHz is for indication only.

Client: Coble Enterprise
Sample: COB-C6PLO3 # 1
Technician: Dean Beverley

Job No.: 3050088-001-1
Test Date: 10/24/03 3:32 PM
Test Specification: TIA/EIA-568B.2-1

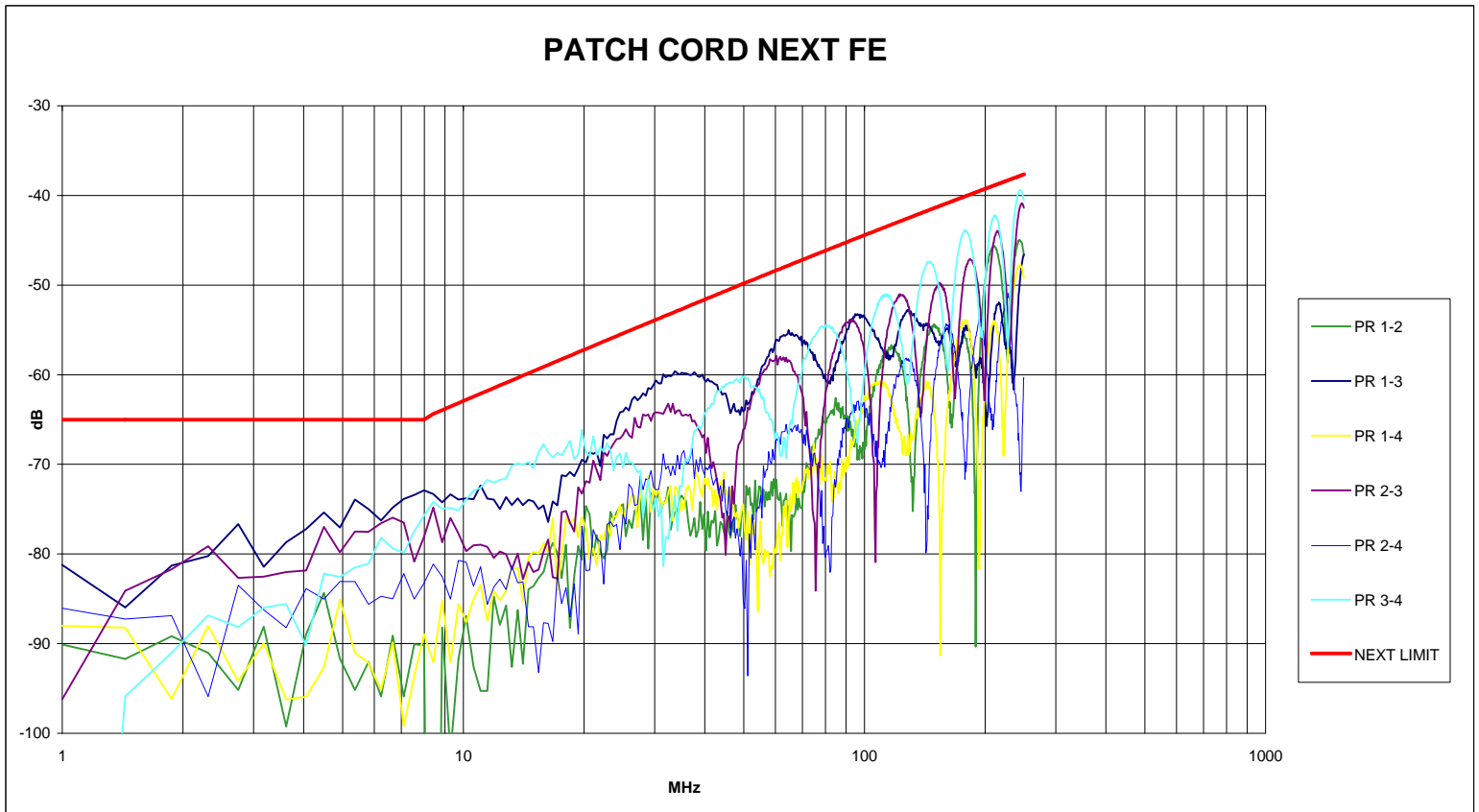


FREQ.	LIMIT	1,2	1,3	1,4	2,3	2,4	3,4	WORST CASE MARGIN	
1	-65.00	-87.47	-83.93	-92.58	-85.13	-102.09	-90.03	18.93	PASS
4	-65.00	-89.62	-78.26	-92.14	-82.11	-82.19	-85.24	13.26	PASS
8	-65.00	-90.98	-74.48	-85.36	-76.30	-83.47	-80.14	9.48	PASS
10	-62.93	-91.10	-75.63	-84.99	-76.79	-82.58	-76.43	12.70	PASS
16	-59.04	-80.28	-74.37	-79.20	-86.62	-77.09	-69.33	10.29	PASS
20	-57.21	-80.15	-71.67	-76.57	-71.97	-81.56	-66.90	9.68	PASS
25	-55.39	-78.94	-64.93	-73.05	-66.12	-75.95	-68.16	9.53	PASS
31.25	-53.59	-78.72	-62.21	-70.88	-64.28	-70.33	-75.72	8.63	PASS
62.5	-48.07	-75.79	-56.48	-78.49	-57.36	-66.84	-67.06	8.41	PASS
100	-44.43	-65.83	-54.44	-61.77	-55.44	-64.46	-59.05	10.01	PASS
250	-37.64	-47.40	-45.81	-51.40	-41.30	-57.40	-41.25	3.60	PASS

Min Margin for Sweep Margin Freq MHz PASS
 1.9 242.7

Client: Coble Enterprise
Sample: COB-C6PLO3 # 1
Technician: Dean Beverley

Job No.: 3050088-001-1
Test Date: 10/24/03 3:32 PM
Test Specification: TIA/EIA-568B.2-1



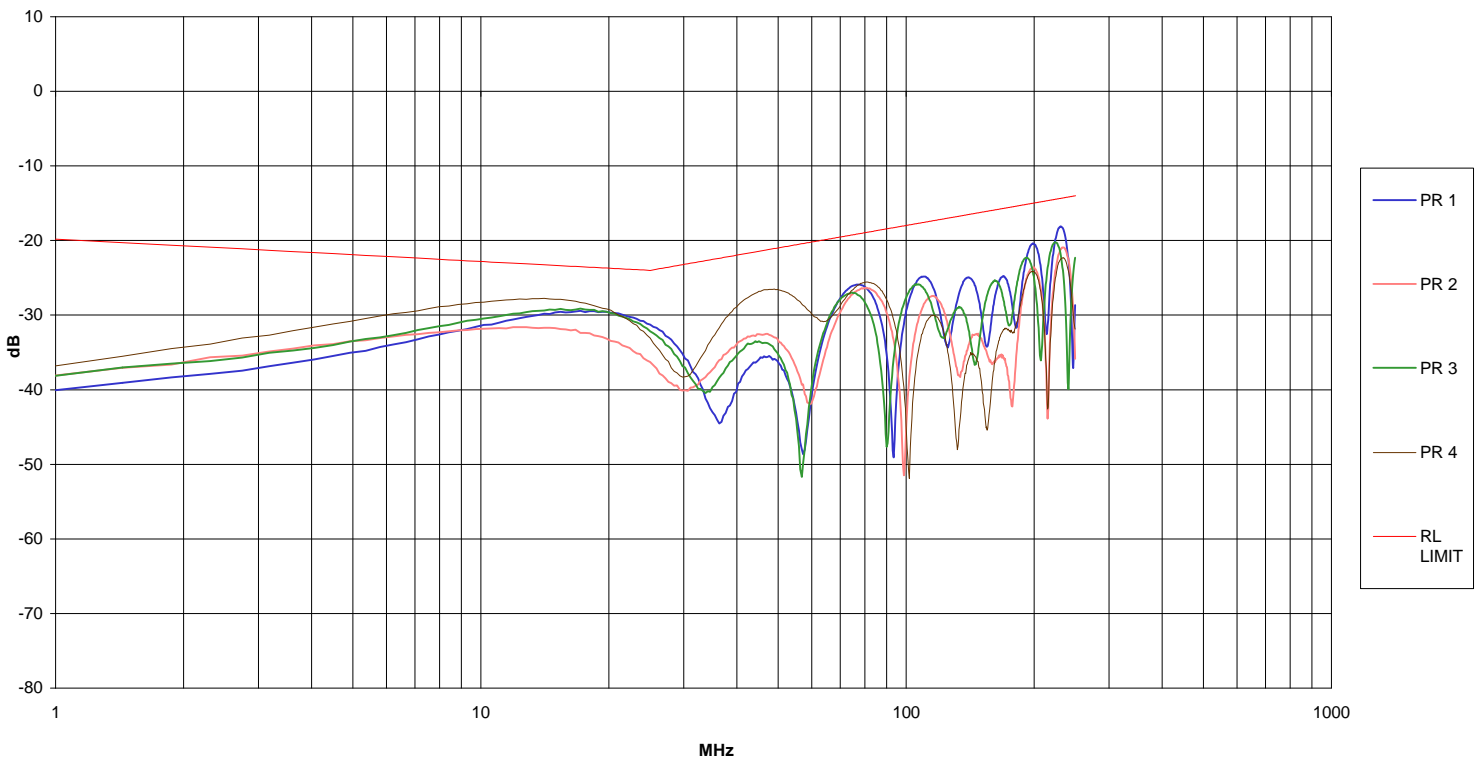
FREQ.	LIMIT	1,2	1,3	1,4	2,3	2,4	3,4	WORST CASE MARGIN	
1	-65.00	-88.15	-83.48	-91.99	-95.88	-87.45	-89.10	18.48	PASS
4	-65.00	-99.23	-78.71	-96.22	-82.00	-88.20	-85.56	13.71	PASS
8	-65.00	-90.08	-73.41	-93.58	-80.86	-85.02	-77.47	8.41	PASS
10	-62.93	-91.72	-73.91	-85.56	-77.74	-80.72	-75.17	10.98	PASS
16	-59.04	-82.02	-74.58	-78.74	-79.74	-87.66	-67.77	8.72	PASS
20	-57.21	-80.65	-69.48	-75.88	-73.26	-76.90	-66.16	8.94	PASS
25	-55.39	-74.71	-64.21	-74.50	-67.12	-79.51	-68.77	8.81	PASS
31.25	-53.59	-73.06	-60.98	-72.68	-64.24	-72.79	-75.81	7.40	PASS
62.5	-48.07	-74.75	-55.72	-78.00	-58.37	-66.39	-69.11	7.65	PASS
100	-44.43	-67.72	-53.37	-62.74	-57.02	-63.12	-60.09	8.94	PASS
250	-37.64	-46.66	-46.57	-49.09	-41.39	-60.28	-40.57	2.92	PASS

Min Margin for Sweep Margin Freq MHz PASS
 1.6 244.9

Client: Coble Enterprise
Sample: COB-C6PLO3 # 1
Technician: Dean Beverley

Job No.: 3050088-001-1
Test Date: 10/24/03 3:32 PM
Test Specification: TIA/EIA-568B.2-1

PATCH CORD RETURN LOSS NE



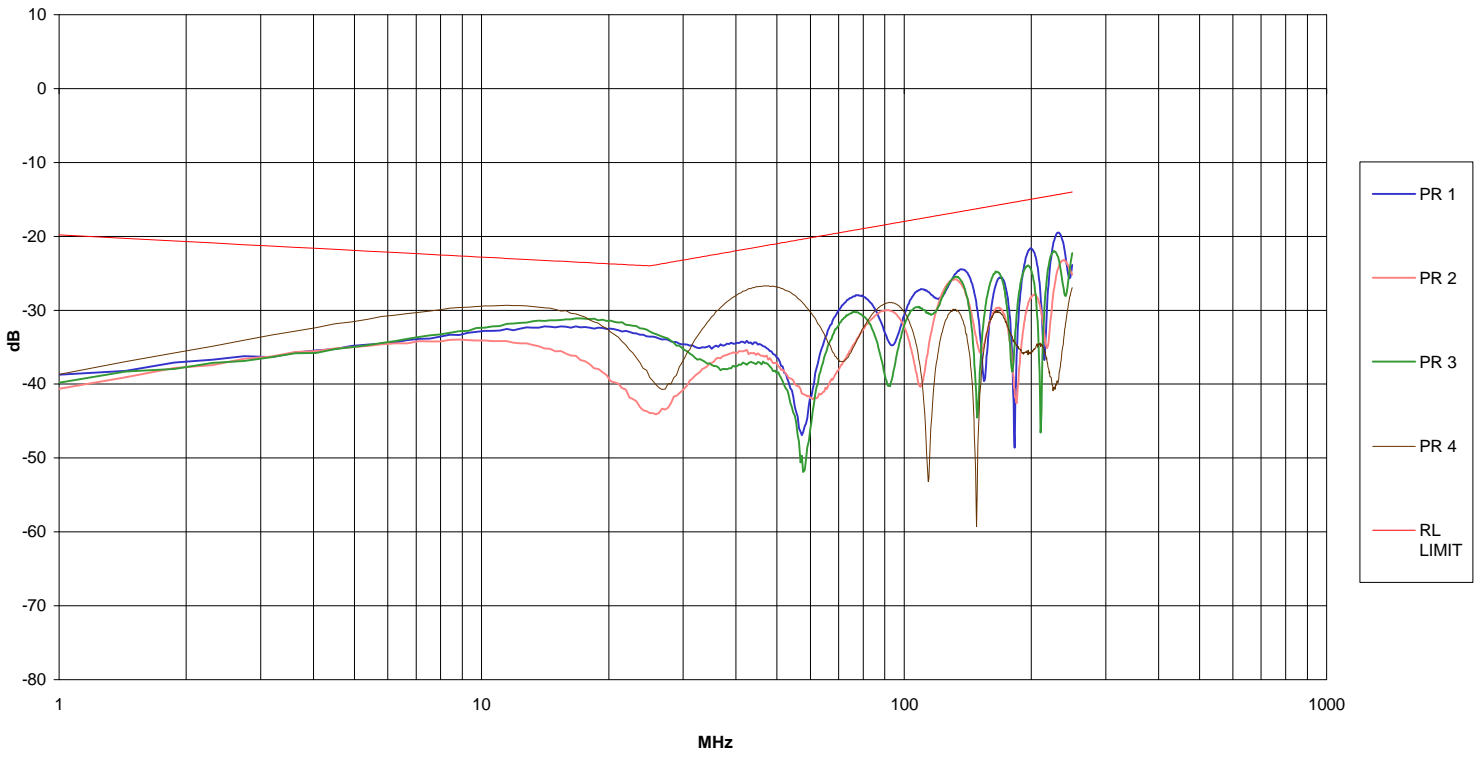
FREQ.	LIMIT	1	2	3	4	WORST CASE MARGIN	
1	-19.8	-39.1	-37.1	-37.0	-35.5	15.7	PASS
4	-21.6	-36.4	-34.5	-34.7	-32.1	10.5	PASS
8	-22.5	-32.9	-32.4	-31.7	-29.1	6.6	PASS
10	-22.8	-31.6	-31.9	-30.6	-28.3	5.5	PASS
16	-23.4	-29.6	-31.9	-29.3	-28.0	4.6	PASS
20	-23.7	-29.6	-33.2	-29.6	-29.2	5.5	PASS
25	-24.0	-31.1	-36.1	-31.8	-32.7	7.1	PASS
31.25	-23.0	-36.1	-40.2	-37.8	-38.2	13.0	PASS
62.5	-20.0	-35.9	-38.7	-34.8	-30.5	10.5	PASS
100	-18.0	-30.0	-47.7	-27.9	-42.6	9.9	PASS
250	-14.0	-28.7	-27.9	-22.3	-31.9	8.3	PASS

Min Margin for Sweep Margin Freq MHz **PASS**
 3.8 231.3

Client: Coble Enterprise
Sample: COB-C6PLO3 # 1
Technician: Dean Beverley

Job No.: 3050088-001-1
Test Date: 10/24/03 3:32 PM
Test Specification: TIA/EIA-568B.2-1

PATCH CORD RETURN LOSS FE

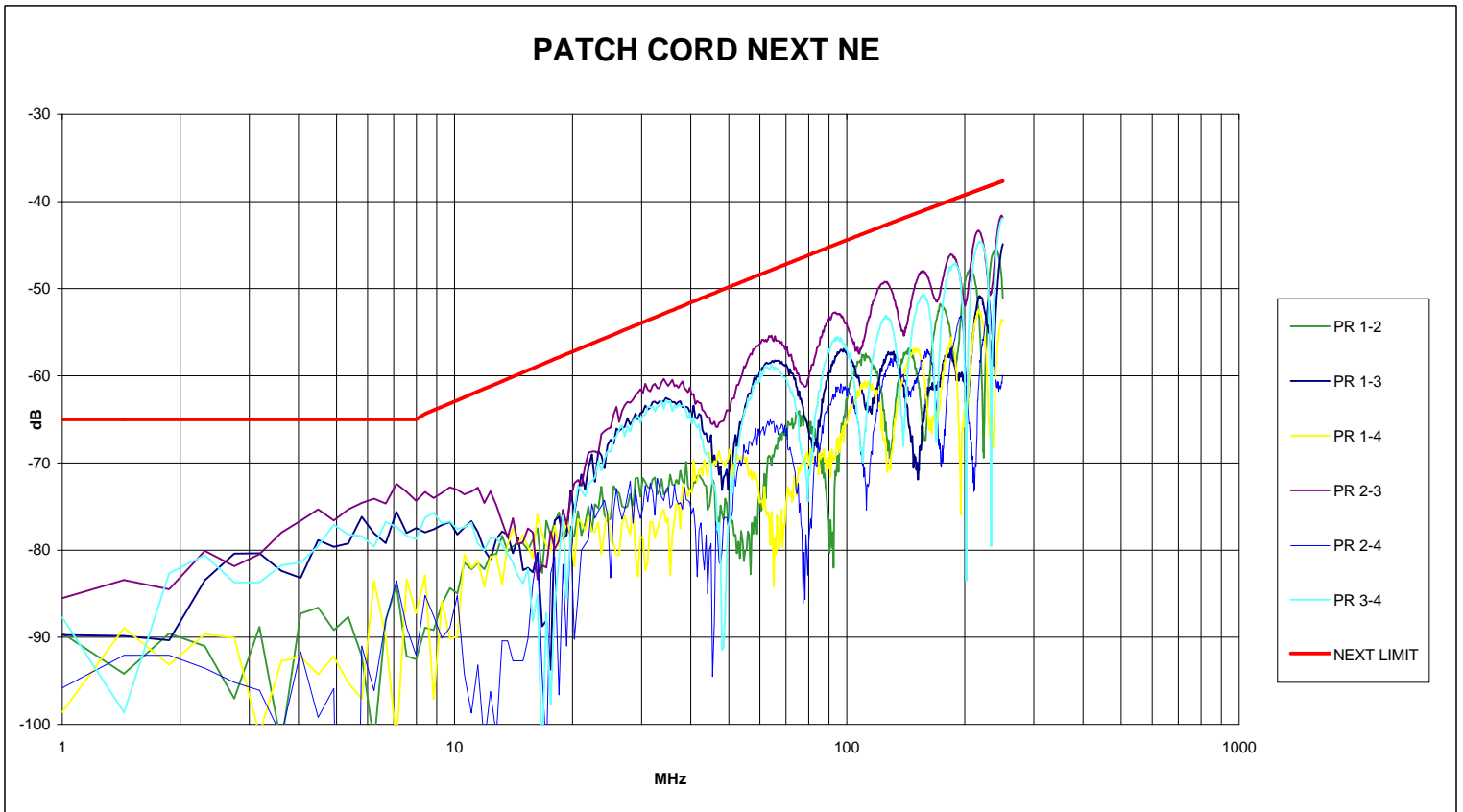


FREQ.	LIMIT	1	2	3	4	WORST CASE MARGIN	
1	-19.8	-38.7	-40.6	-39.8	-38.7	18.9	PASS
4	-21.6	-35.4	-35.5	-35.8	-32.3	10.7	PASS
8	-22.5	-33.6	-34.2	-33.3	-29.9	7.4	PASS
10	-22.8	-32.8	-34.1	-32.4	-29.4	6.6	PASS
16	-23.4	-32.4	-36.1	-31.2	-30.4	7.0	PASS
20	-23.7	-32.5	-39.6	-31.4	-32.9	7.7	PASS
25	-24.0	-33.6	-43.9	-32.9	-39.1	8.9	PASS
31.25	-23.0	-34.8	-39.5	-35.9	-35.3	11.8	PASS
62.5	-20.0	-37.2	-41.7	-40.0	-31.8	11.8	PASS
100	-18.0	-30.7	-32.2	-32.1	-30.2	12.2	PASS
250	-14.0	-23.9	-25.2	-22.3	-27.0	8.3	PASS

Min Margin for Sweep Margin Freq MHz **PASS**
 5.2 231.3

Client: Coble Enterprise
Sample: COB-C6PLO3 # 2
Technician: Dean Beverley

Job No.: 3050088-001-2
Test Date: 10/24/03 3:43 PM
Test Specification: TIA/EIA-568B.2-1

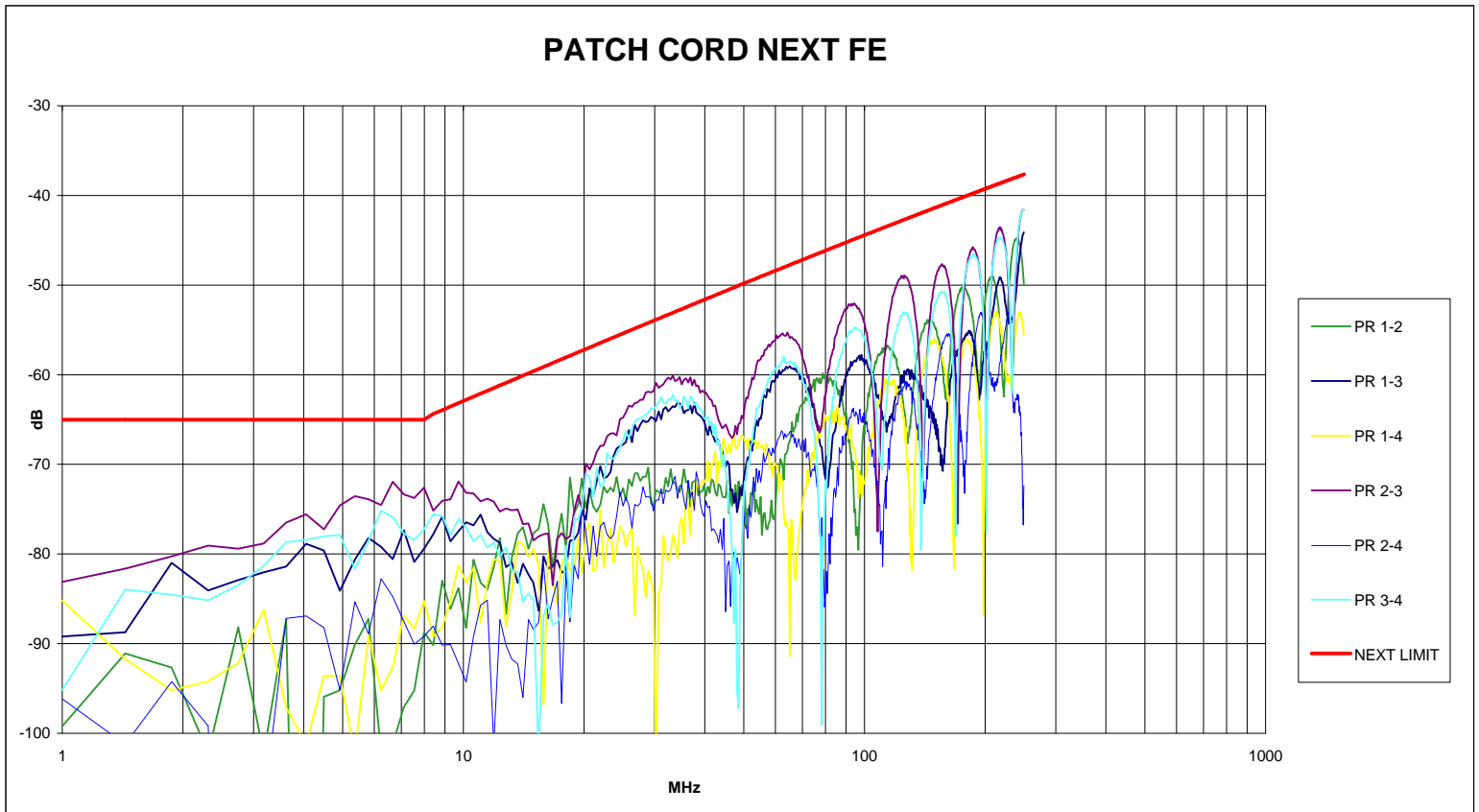


FREQ.	LIMIT	1,2	1,3	1,4	2,3	2,4	3,4	WORST CASE MARGIN	
1	-65.00	-89.52	-89.75	-98.61	-85.51	-95.81	-87.73	20.51	PASS
4	-65.00	-87.28	-83.20	-92.24	-76.62	-91.70	-81.41	11.62	PASS
8	-65.00	-92.53	-77.46	-87.24	-74.35	-92.06	-78.76	9.35	PASS
10	-62.93	-84.97	-78.22	-89.93	-73.08	-85.20	-77.60	10.15	PASS
16	-59.04	-77.49	-80.30	-75.89	-83.36	-80.52	-85.16	16.85	PASS
20	-57.21	-78.35	-75.74	-81.88	-72.32	-90.23	-75.55	15.11	PASS
25	-55.39	-76.39	-67.31	-78.99	-65.96	-83.20	-68.72	10.56	PASS
31.25	-53.59	-72.78	-63.83	-81.31	-61.59	-74.44	-63.52	8.00	PASS
62.5	-48.07	-71.47	-58.47	-76.01	-56.07	-65.66	-59.07	8.00	PASS
100	-44.43	-62.77	-57.51	-65.42	-54.05	-62.30	-57.03	9.62	PASS
250	-37.64	-51.08	-44.86	-53.70	-41.83	-60.02	-41.90	4.19	PASS

Min Margin for Sweep Margin Freq MHz PASS
 3.9 247.9

Client: Coble Enterprise
Sample: COB-C6PLO3 # 2
Technician: Dean Beverley

Job No.: 3050088-001-2
Test Date: 10/24/03 3:43 PM
Test Specification: TIA/EIA-568B.2-1

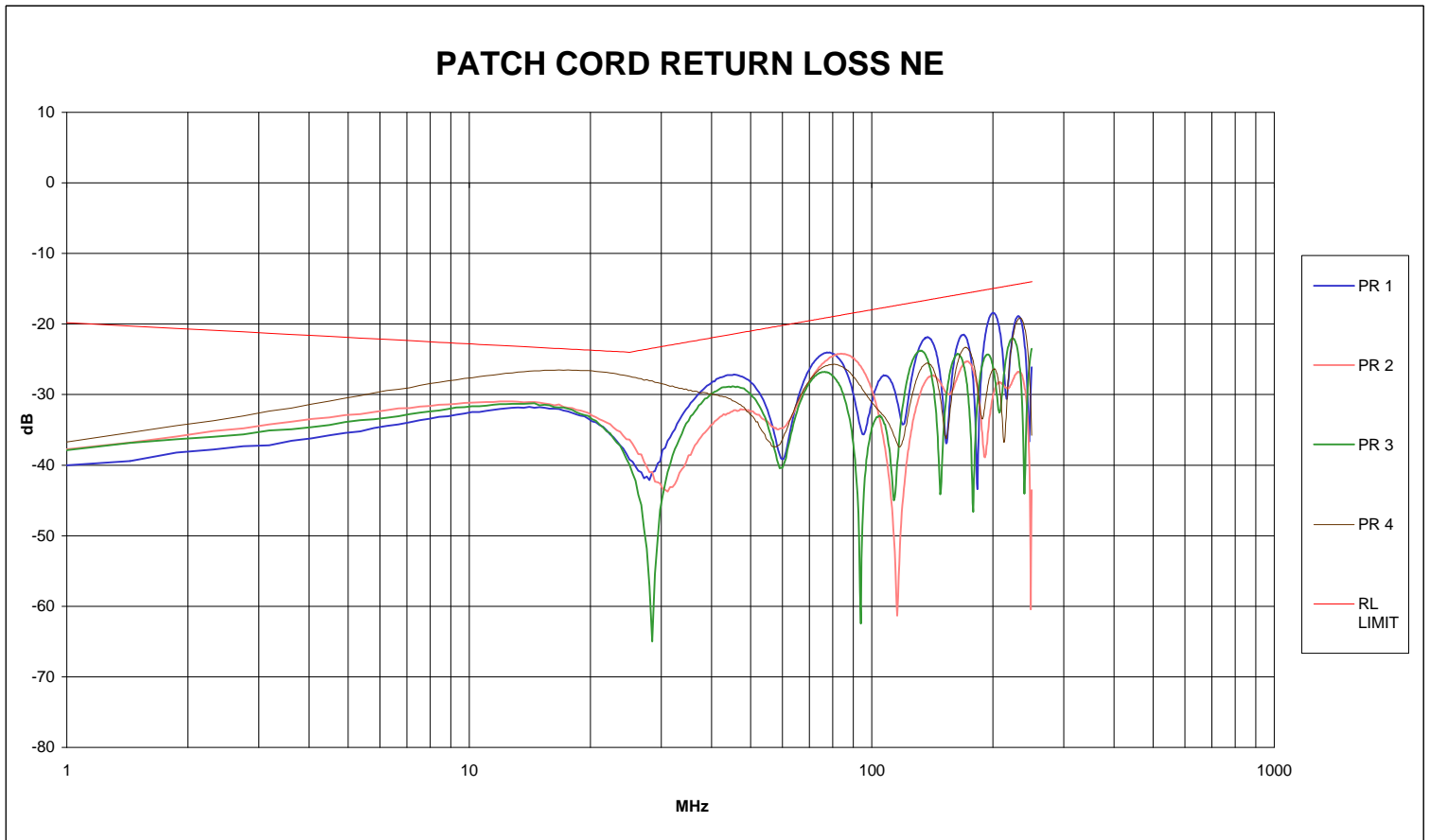


FREQ.	LIMIT	1,2	1,3	1,4	2,3	2,4	3,4	WORST CASE MARGIN	
1	-65.00	-85.31	-86.47	-90.27	-92.18	-92.57	-87.96	20.31	PASS
4	-65.00	-87.31	-81.38	-97.13	-76.49	-87.18	-78.68	11.49	PASS
8	-65.00	-95.22	-80.87	-88.34	-73.77	-90.07	-78.45	8.77	PASS
10	-62.93	-83.78	-77.46	-81.26	-71.89	-92.22	-76.13	8.96	PASS
16	-59.04	-74.45	-80.28	-96.82	-77.79	-81.12	-86.86	15.40	PASS
20	-57.21	-71.56	-75.07	-82.15	-74.87	-74.55	-74.81	14.35	PASS
25	-55.39	-73.56	-67.96	-76.94	-64.95	-73.11	-68.11	9.56	PASS
31.25	-53.59	-73.05	-64.10	-84.27	-61.44	-73.97	-63.14	7.86	PASS
62.5	-48.07	-69.70	-59.79	-71.63	-55.45	-66.26	-58.52	7.38	PASS
100	-44.43	-65.68	-58.25	-71.93	-54.12	-64.26	-55.88	9.69	PASS
250	-37.64	-49.94	-44.11	-55.55	-41.63	-72.39	-41.57	3.93	PASS

Min Margin for Sweep Margin Freq MHz **PASS**
 3.9 249.2

Client: Coble Enterprise
Sample: COB-C6PLO3 # 2
Technician: Dean Beverley

Job No.: 3050088-001-2
Test Date: 10/24/03 3:43 PM
Test Specification: TIA/EIA-568B.2-1



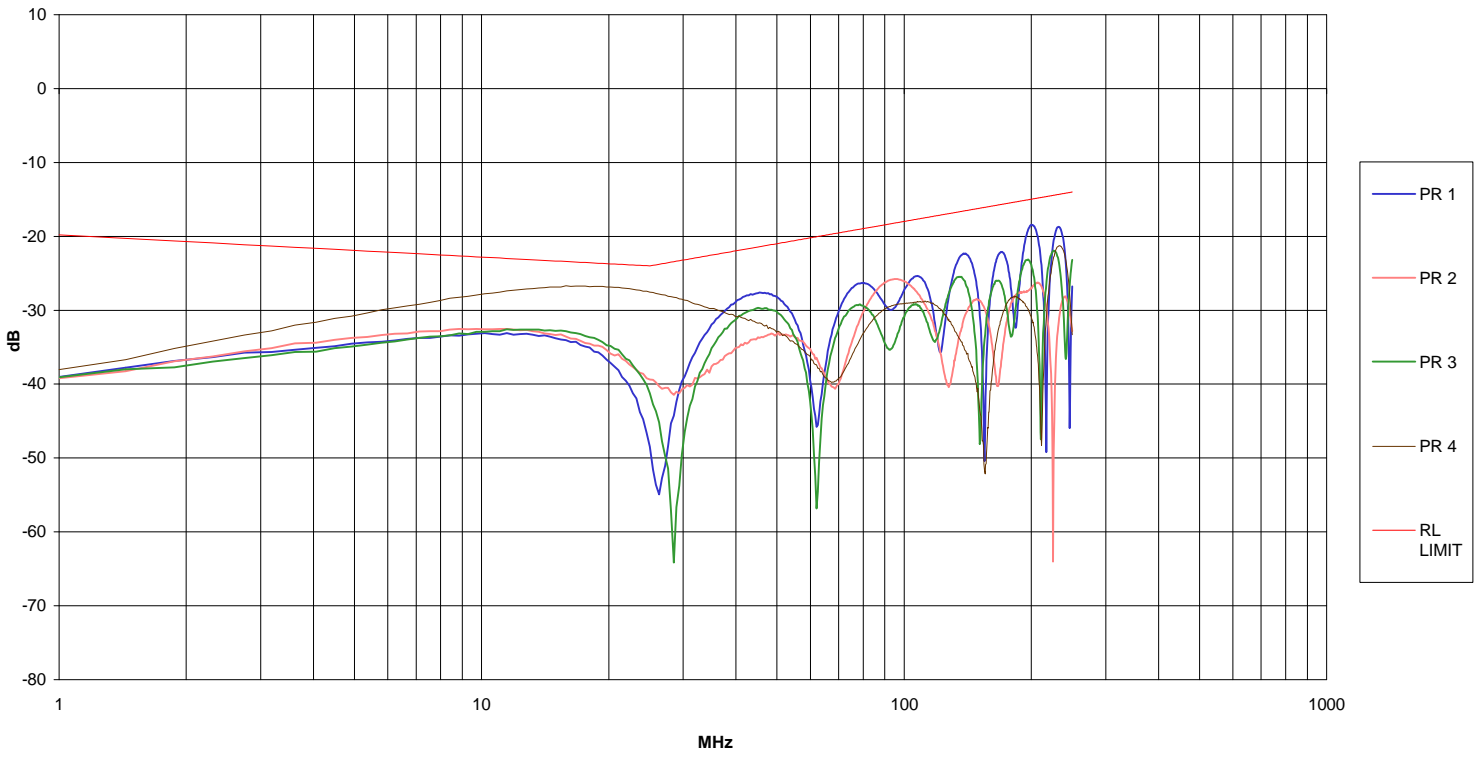
FREQ.	LIMIT	1	2	3	4	WORST CASE MARGIN	
1	-19.8	-39.4	-36.8	-36.8	-35.4	15.6	PASS
4	-21.6	-36.5	-33.8	-34.9	-31.9	10.3	PASS
8	-22.5	-33.6	-31.7	-32.5	-28.7	6.2	PASS
10	-22.8	-32.7	-31.2	-31.8	-27.7	4.9	PASS
16	-23.4	-32.0	-31.3	-31.5	-26.5	3.1	PASS
20	-23.7	-33.4	-32.6	-33.0	-26.6	2.9	PASS
25	-24.0	-38.4	-36.4	-39.1	-27.3	3.3	PASS
31.25	-23.0	-37.5	-43.5	-42.5	-28.6	5.5	PASS
62.5	-20.0	-36.4	-33.8	-37.2	-34.3	13.8	PASS
100	-18.0	-31.6	-29.0	-35.3	-30.9	11.0	PASS
250	-14.0	-26.1	-46.7	-23.5	-35.8	9.5	PASS

Min Margin for Sweep Margin Freq MHz **PASS**
 2.9 20.2

Client: Coble Enterprise
Sample: COB-C6PLO3 # 2
Technician: Dean Beverley

Job No.: 3050088-001-2
Test Date: 10/24/03 3:43 PM
Test Specification: TIA/EIA-568B.2-1

PATCH CORD RETURN LOSS FE

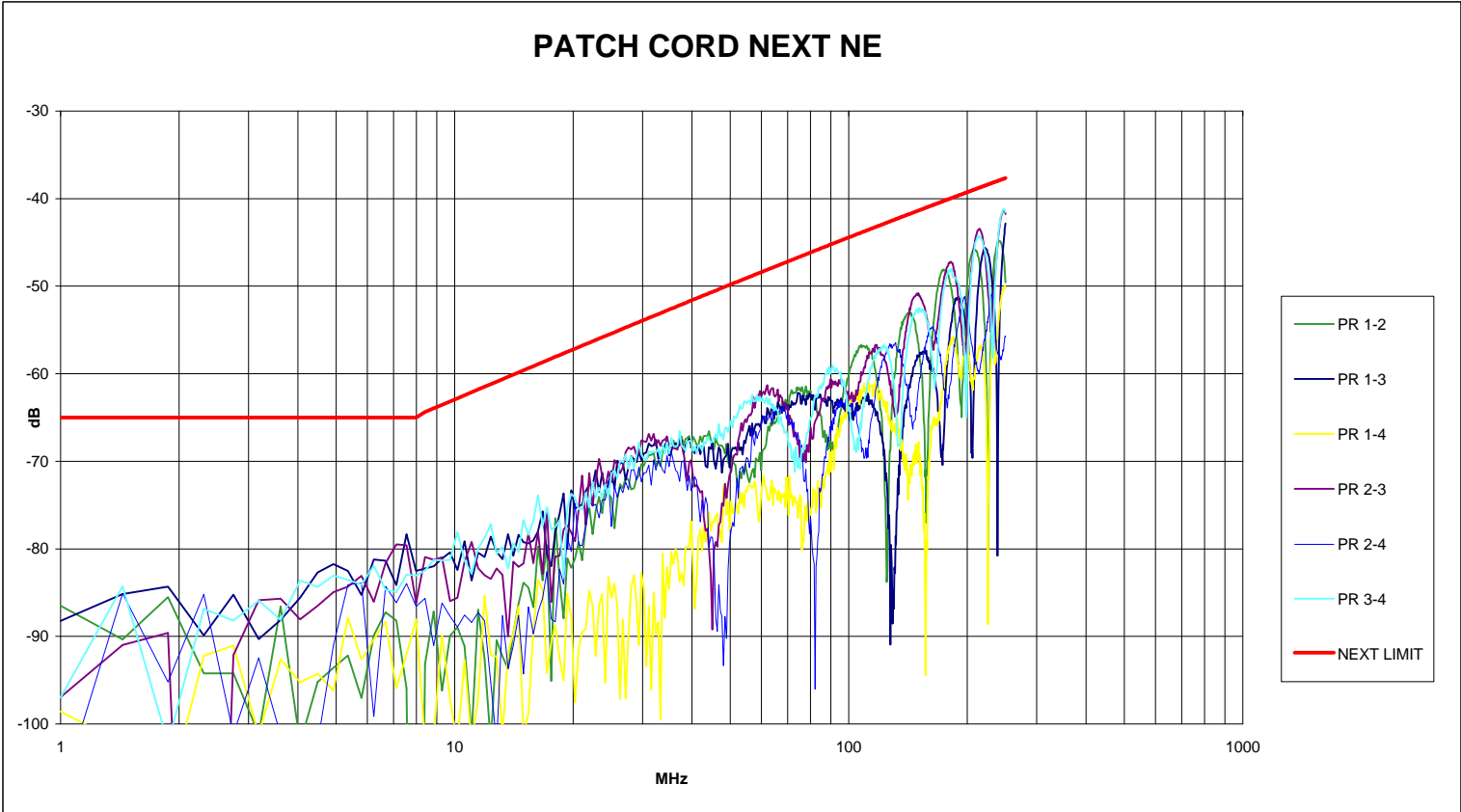


FREQ.	LIMIT	1	2	3	4	WORST CASE MARGIN	
1	-19.8	-39.0	-39.2	-39.1	-38.0	18.2	PASS
4	-21.6	-35.1	-34.4	-35.6	-31.6	10.0	PASS
8	-22.5	-33.6	-32.8	-33.5	-28.7	6.2	PASS
10	-22.8	-33.1	-32.6	-32.9	-27.8	5.0	PASS
16	-23.4	-34.3	-33.8	-33.0	-26.8	3.3	PASS
20	-23.7	-37.1	-35.9	-34.8	-26.9	3.2	PASS
25	-24.0	-48.5	-39.4	-41.2	-27.6	3.6	PASS
31.25	-23.0	-37.1	-40.3	-42.9	-28.9	5.8	PASS
62.5	-20.0	-45.5	-36.9	-54.6	-37.8	16.9	PASS
100	-18.0	-27.3	-26.1	-30.9	-29.1	8.1	PASS
250	-14.0	-26.7	-32.8	-23.2	-33.3	9.2	PASS

Min Margin for Sweep Margin Freq MHz **PASS**
 3.1 19.3

Client: Coble Enterprise
Sample: COB-C6PLO3 # 3
Technician: Dean Beverley

Job No.: 3050088-001-3
Test Date: 10/24/03 3:55 PM
Test Specification: TIA/EIA-568B.2-1

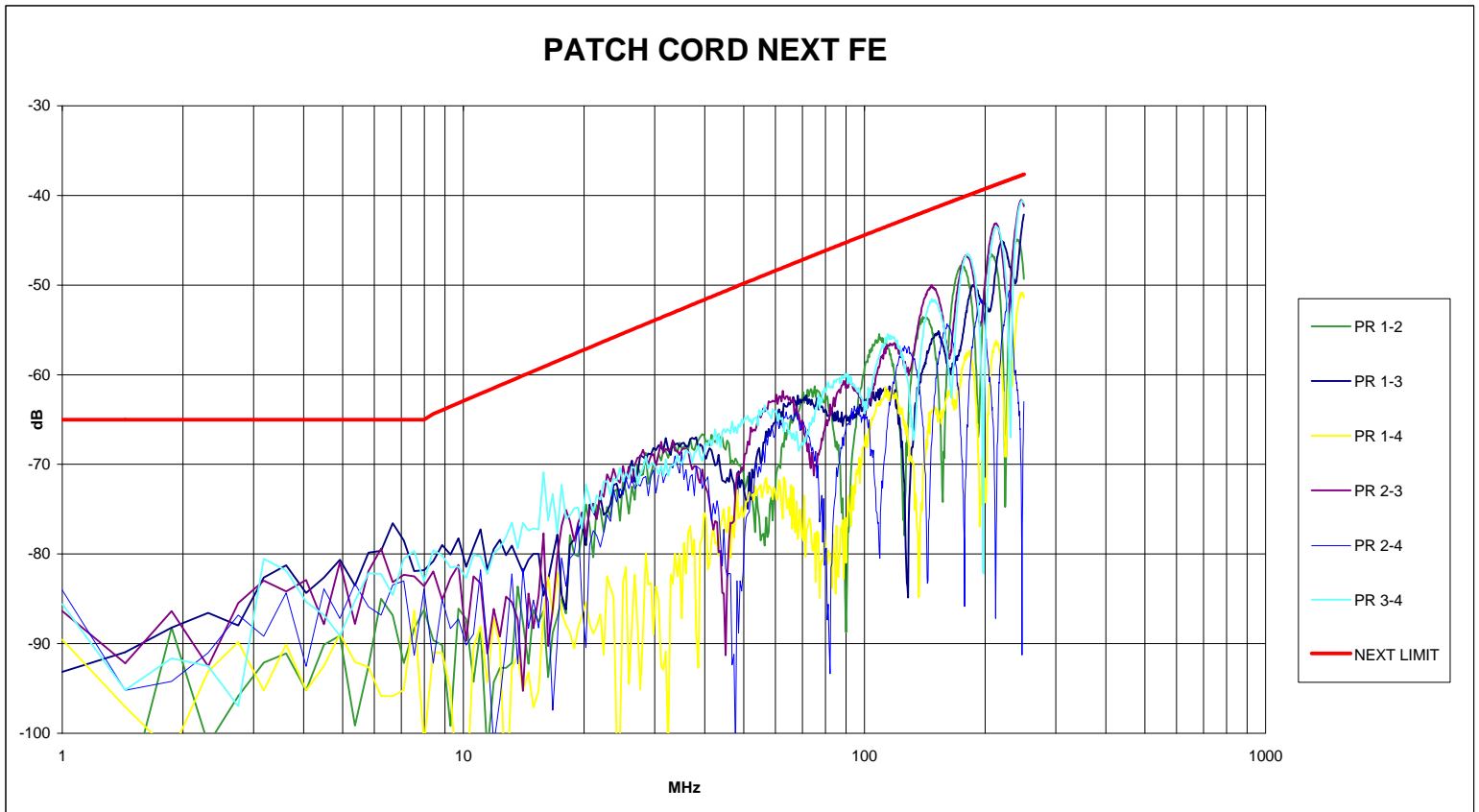


FREQ.	LIMIT	1,2	1,3	1,4	2,3	2,4	3,4	WORST CASE MARGIN	
1	-65.00	-86.50	-88.23	-98.60	-96.93	-108.13	-96.97	21.50	PASS
4	-65.00	-102.23	-85.59	-95.26	-88.06	-108.24	-83.61	18.61	PASS
8	-65.00	-183.62	-82.52	-88.05	-86.17	-86.58	-83.06	17.52	PASS
10	-62.93	-88.95	-82.40	-102.25	-85.58	-88.93	-78.08	15.15	PASS
16	-59.04	-79.72	-78.02	-83.56	-78.03	-87.23	-73.90	14.85	PASS
20	-57.21	-81.12	-75.38	-97.52	-79.14	-74.80	-74.16	16.95	PASS
25	-55.39	-74.24	-71.11	-85.60	-72.40	-77.43	-71.38	15.71	PASS
31.25	-53.59	-69.30	-67.97	-86.55	-66.86	-70.42	-68.85	13.27	PASS
62.5	-48.07	-66.03	-64.10	-74.45	-62.04	-65.15	-63.48	13.97	PASS
100	-44.43	-60.07	-64.08	-63.91	-62.83	-64.01	-63.82	15.63	PASS
250	-37.64	-49.56	-42.81	-50.24	-41.76	-55.81	-41.56	3.92	PASS

Min Margin for Sweep Margin Freq MHz PASS
 3.4 247.0

Client: Coble Enterprise
Sample: COB-C6PLO3 # 3
Technician: Dean Beverley

Job No.: 3050088-001-3
Test Date: 10/24/03 3:55 PM
Test Specification: TIA/EIA-568B.2-1

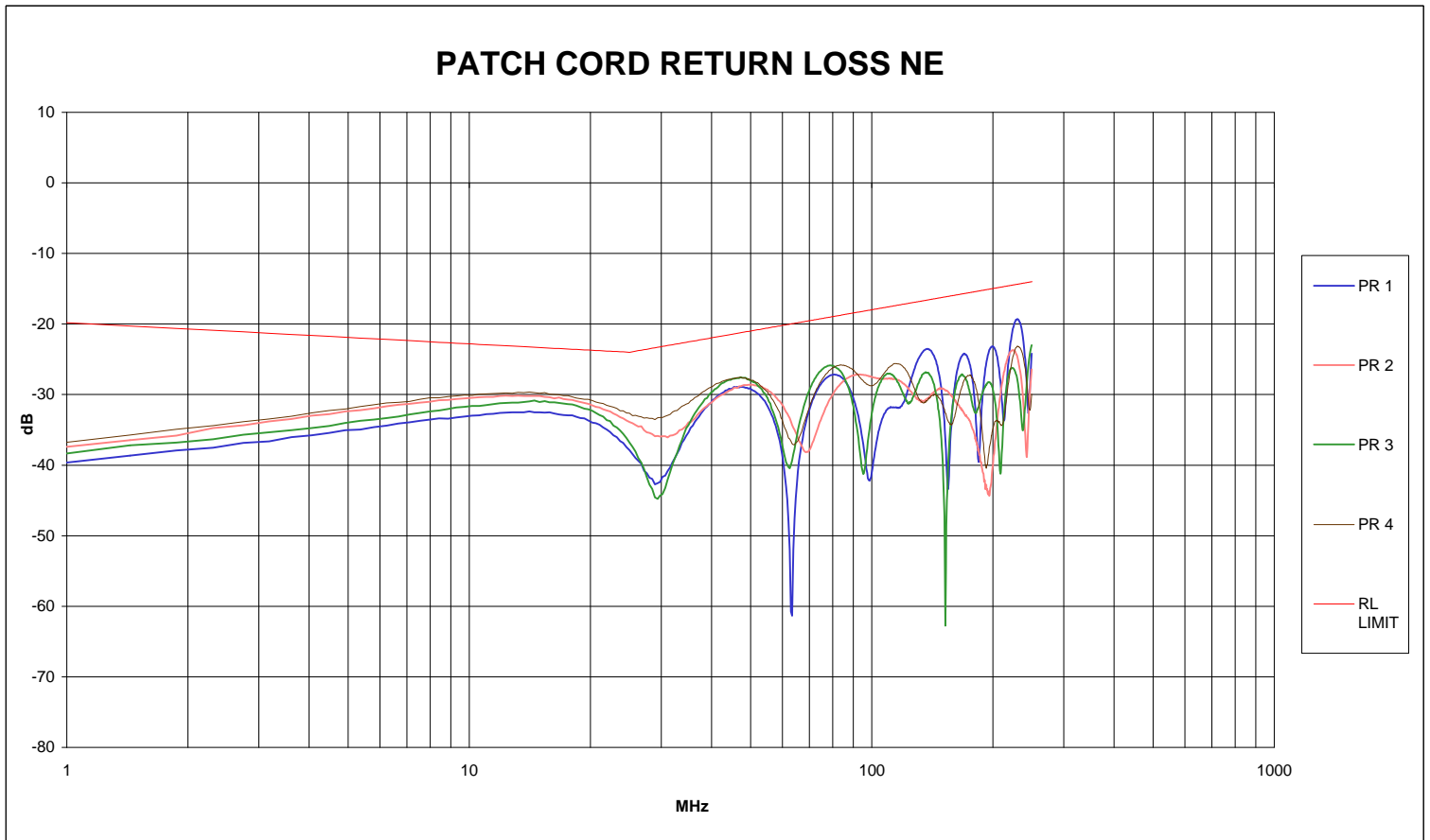


FREQ.	LIMIT	1,2	1,3	1,4	2,3	2,4	3,4	WORST CASE MARGIN	
1	-65.00	-95.84	-85.55	-88.05	-91.00	-101.13	-183.52	20.55	PASS
4	-65.00	-91.08	-81.24	-90.11	-84.17	-84.34	-81.83	16.24	PASS
8	-65.00	-88.32	-81.90	-86.34	-82.48	-91.28	-79.65	14.65	PASS
10	-62.93	-86.08	-78.23	-108.22	-81.24	-87.25	-81.40	15.30	PASS
16	-59.04	-86.35	-84.64	-86.61	-77.70	-83.40	-70.87	11.83	PASS
20	-57.21	-77.87	-76.51	-86.84	-75.36	-85.28	-77.15	18.14	PASS
25	-55.39	-76.28	-73.73	-100.18	-72.03	-72.74	-70.37	14.98	PASS
31.25	-53.59	-68.87	-67.85	-85.19	-68.75	-71.22	-71.10	14.26	PASS
62.5	-48.07	-68.11	-64.12	-74.58	-62.98	-65.40	-64.86	14.91	PASS
100	-44.43	-59.94	-63.54	-67.95	-63.45	-64.35	-63.01	15.51	PASS
250	-37.64	-49.31	-42.14	-51.45	-41.20	-62.98	-40.83	3.19	PASS

Min Margin for Sweep Margin Freq MHz **PASS**
 2.7 246.2

Client: Coble Enterprise
Sample: COB-C6PLO3 # 3
Technician: Dean Beverley

Job No.: 3050088-001-3
Test Date: 10/24/03 3:55 PM
Test Specification: TIA/EIA-568B.2-1



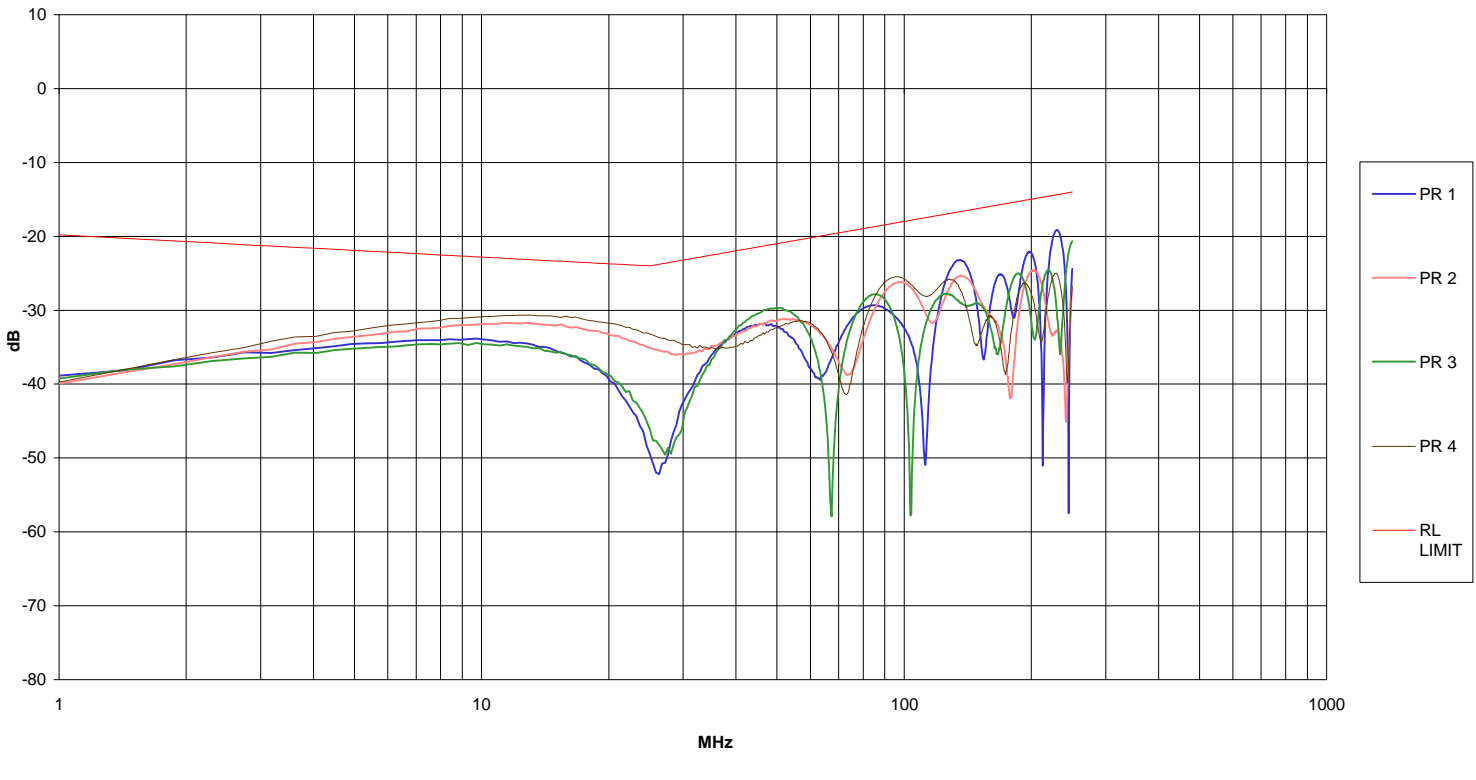
FREQ.	LIMIT	1	2	3	4	WORST CASE MARGIN	
1	-19.8	-38.6	-36.5	-37.2	-35.7	15.9	PASS
4	-21.6	-36.1	-33.5	-35.0	-33.1	11.4	PASS
8	-22.5	-33.7	-31.1	-32.6	-30.7	8.2	PASS
10	-22.8	-33.1	-30.5	-31.7	-30.1	7.3	PASS
16	-23.4	-32.5	-30.3	-31.1	-29.9	6.5	PASS
20	-23.7	-33.7	-31.3	-32.1	-30.7	7.0	PASS
25	-24.0	-37.5	-33.7	-36.1	-32.6	8.6	PASS
31.25	-23.0	-41.5	-35.9	-43.3	-33.1	10.0	PASS
62.5	-20.0	-48.0	-33.0	-40.3	-36.1	13.0	PASS
100	-18.0	-41.7	-27.4	-33.3	-28.7	9.5	PASS
250	-14.0	-24.2	-28.2	-23.0	-30.0	9.0	PASS

Min Margin for Sweep Margin Freq MHz PASS
 4.9 230.5

Client: Coble Enterprise
Sample: COB-C6PLO3 # 3
Technician: Dean Beverley

Job No.: 3050088-001-3
Test Date: 10/24/03 3:55 PM
Test Specification: TIA/EIA-568B.2-1

PATCH CORD RETURN LOSS FE

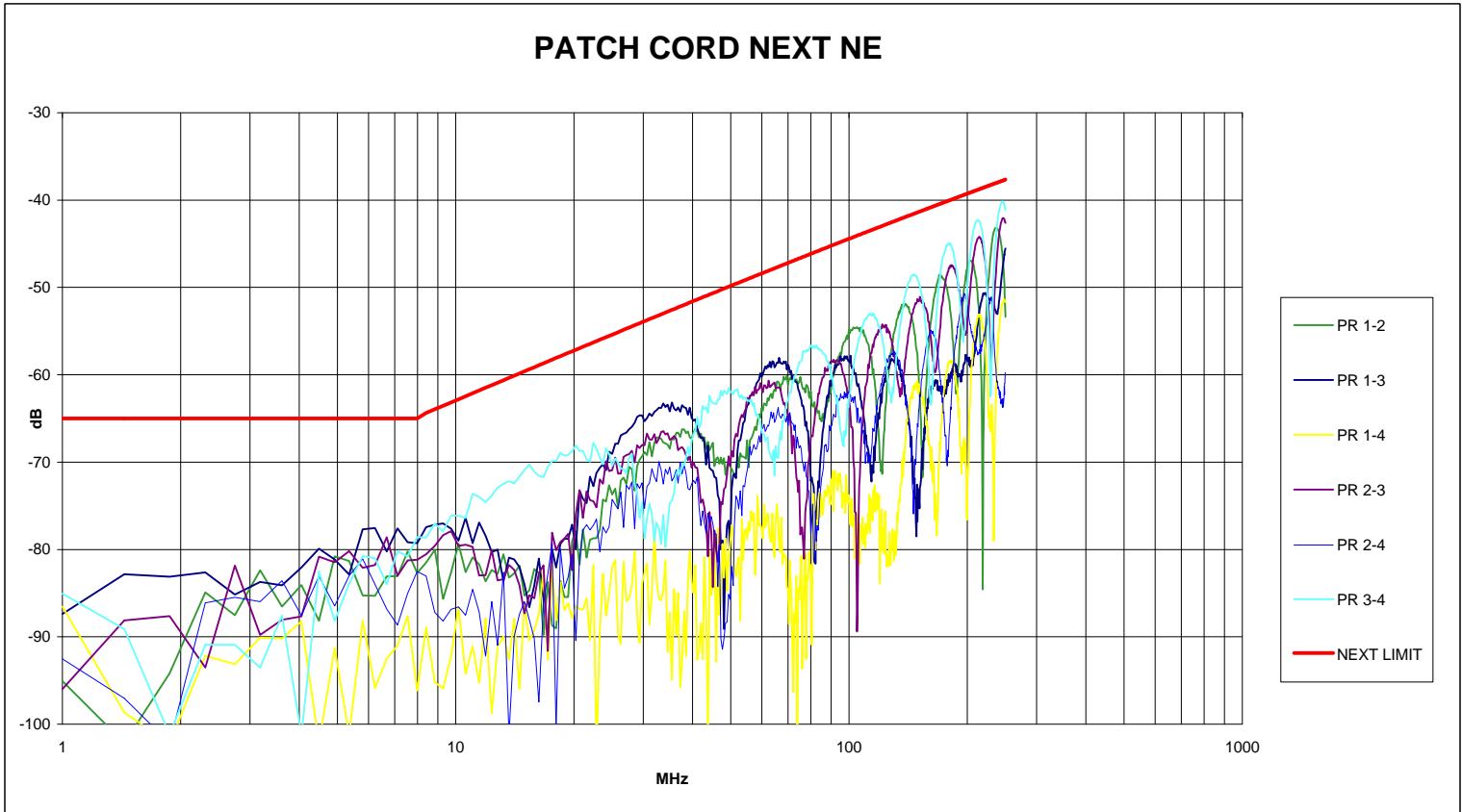


FREQ.	LIMIT	1	2	3	4	WORST CASE MARGIN	
1	-19.8	-38.9	-39.9	-39.2	-39.7	19.1	PASS
4	-21.6	-35.1	-34.3	-35.8	-33.5	11.9	PASS
8	-22.5	-34.0	-32.3	-34.6	-31.4	8.9	PASS
10	-22.8	-33.9	-31.9	-34.6	-30.8	8.0	PASS
16	-23.4	-36.3	-32.4	-36.1	-31.0	7.6	PASS
20	-23.7	-39.6	-33.4	-38.9	-31.8	8.1	PASS
25	-24.0	-49.5	-35.1	-46.1	-33.2	9.2	PASS
31.25	-23.0	-40.9	-35.9	-42.2	-34.7	11.6	PASS
62.5	-20.0	-39.3	-32.7	-36.7	-32.4	12.4	PASS
100	-18.0	-32.4	-26.3	-38.2	-25.8	7.8	PASS
250	-14.0	-24.4	-27.0	-20.7	-26.7	6.7	PASS

Min Margin for Sweep Margin Freq MHz **PASS**
 4.8 230.0

Client: Coble Enterprise
Sample: COB-C6PLO3 # 4
Technician: Dean Beverley

Job No.: 3050088-001-4
Test Date: 10/24/03 4:07 PM
Test Specification: TIA/EIA-568B.2-1

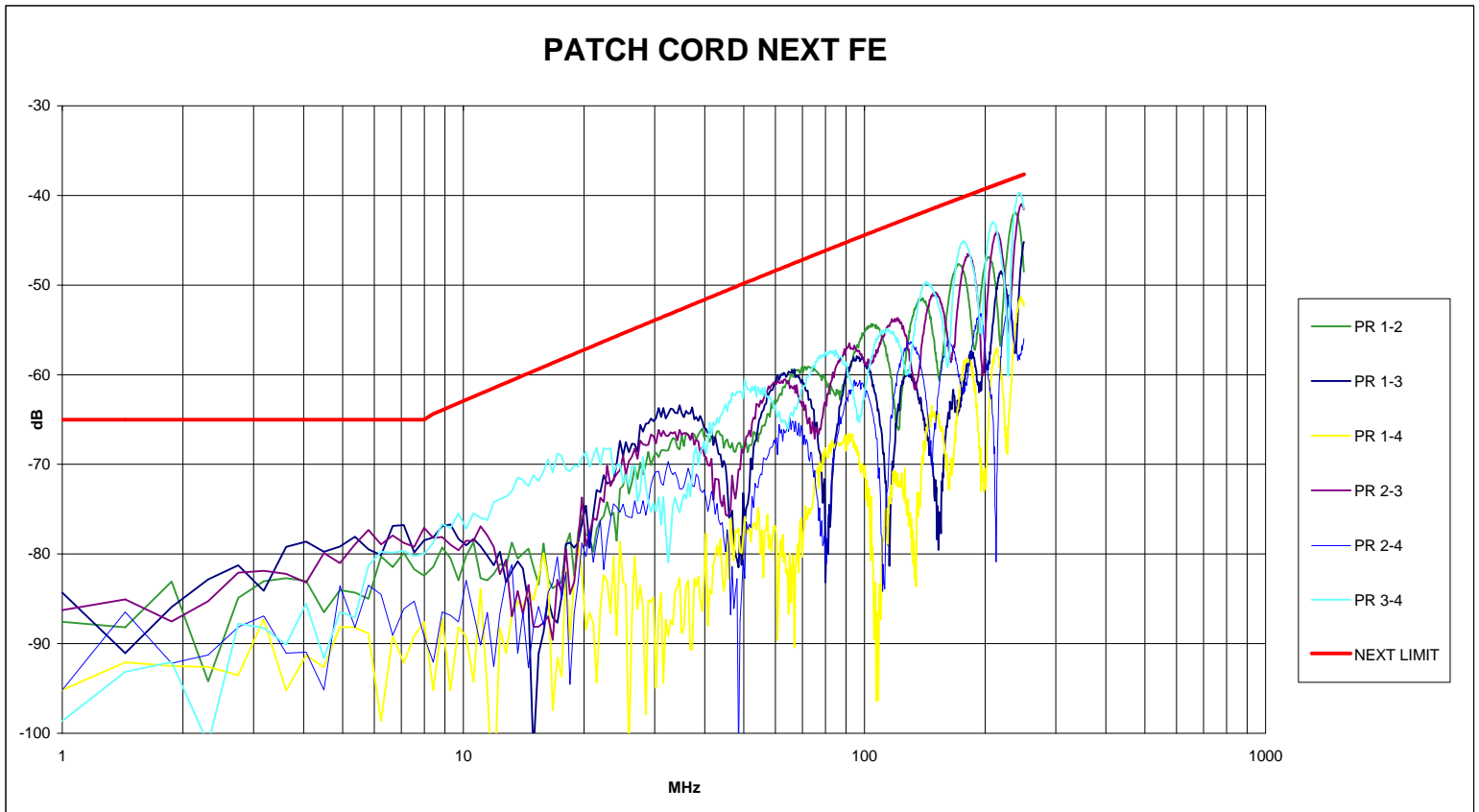


FREQ.	LIMIT	1,2	1,3	1,4	2,3	2,4	3,4	WORST CASE MARGIN	
1	-65.00	-95.07	-87.38	-86.54	-95.99	-92.53	-85.07	20.07	PASS
4	-65.00	-84.08	-82.05	-88.24	-87.67	-87.56	-101.24	17.05	PASS
8	-65.00	-82.68	-79.26	-96.15	-81.18	-82.54	-78.59	13.59	PASS
10	-62.93	-79.35	-78.99	-86.62	-79.61	-86.57	-76.12	13.19	PASS
16	-59.04	-82.71	-81.03	-87.43	-82.72	-97.47	-71.54	12.49	PASS
20	-57.21	-77.93	-79.92	-86.41	-75.96	-90.46	-68.08	10.86	PASS
25	-55.39	-73.72	-69.07	-82.07	-70.91	-74.28	-70.41	13.67	PASS
31.25	-53.59	-67.72	-64.42	-88.57	-67.40	-72.40	-74.78	10.84	PASS
62.5	-48.07	-62.95	-59.10	-77.21	-60.67	-65.88	-68.65	11.03	PASS
100	-44.43	-54.82	-58.36	-73.77	-62.97	-62.12	-62.31	10.39	PASS
250	-37.64	-53.38	-45.54	-51.64	-42.63	-59.74	-41.13	3.48	PASS

Min Margin for Sweep Margin Freq MHz PASS
 2.4 244.9

Client: Coble Enterprise
Sample: COB-C6PLO3 # 4
Technician: Dean Beverley

Job No.: 3050088-001-4
Test Date: 10/24/03 4:07 PM
Test Specification: TIA/EIA-568B.2-1



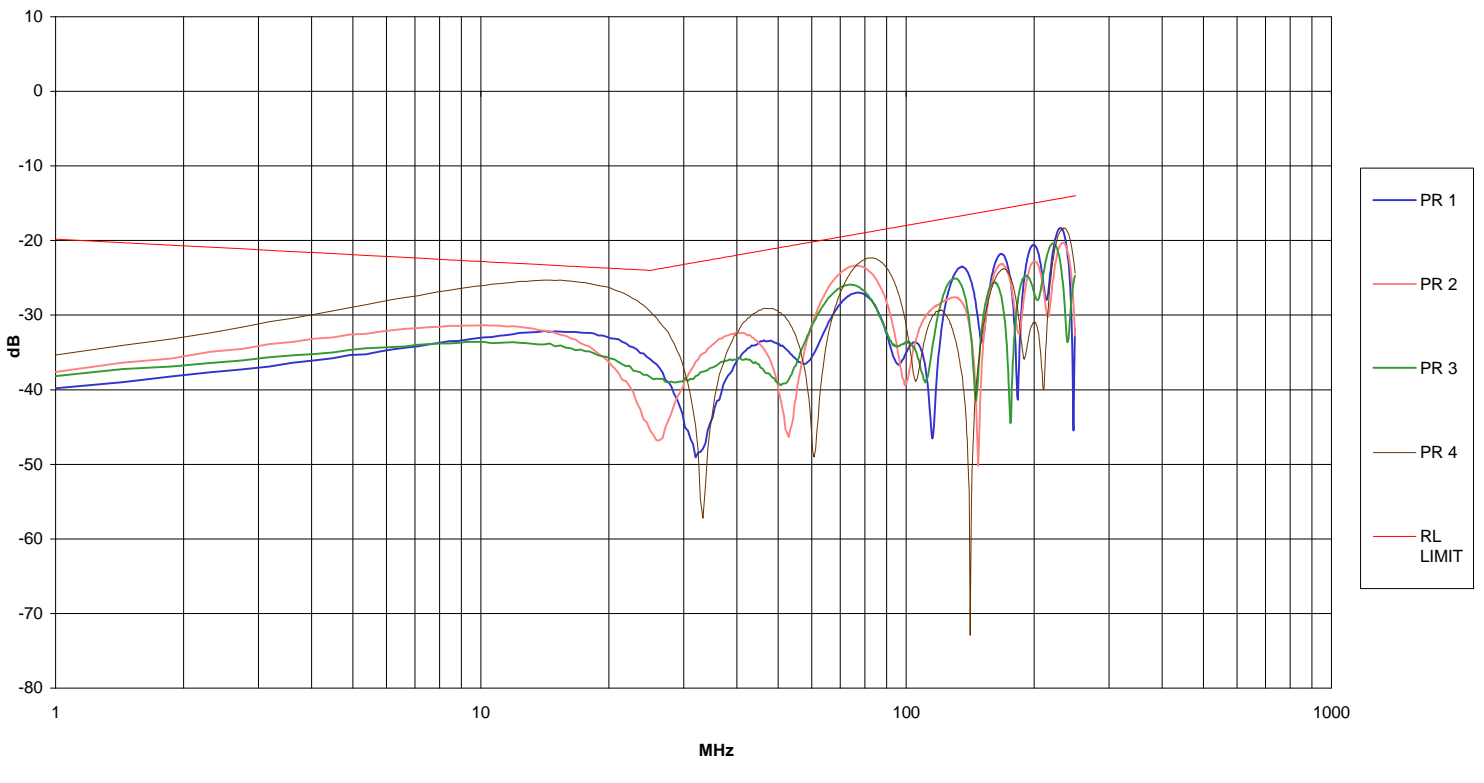
FREQ.	LIMIT	1,2	1,3	1,4	2,3	2,4	3,4	WORST CASE MARGIN	
1	-65.00	-95.83	-87.46	-87.56	-89.13	-85.97	-95.10	20.97	PASS
4	-65.00	-82.68	-79.20	-95.22	-82.22	-91.07	-90.09	14.20	PASS
8	-65.00	-81.71	-79.81	-89.15	-79.21	-85.25	-80.22	14.21	PASS
10	-62.93	-82.93	-78.31	-88.17	-79.59	-87.57	-75.48	12.55	PASS
16	-59.04	-78.83	-88.74	-79.94	-87.67	-87.95	-70.78	11.73	PASS
20	-57.21	-75.71	-76.61	-82.12	-73.67	-78.75	-69.30	12.09	PASS
25	-55.39	-72.73	-67.39	-78.58	-70.65	-75.32	-69.96	12.00	PASS
31.25	-53.59	-69.19	-63.70	-86.81	-66.16	-70.76	-73.68	10.11	PASS
62.5	-48.07	-62.28	-59.91	-80.30	-60.70	-66.10	-65.34	11.84	PASS
100	-44.43	-55.33	-58.47	-71.41	-58.23	-61.46	-62.64	10.89	PASS
250	-37.64	-48.50	-45.17	-52.39	-41.55	-55.98	-41.45	3.80	PASS

Min Margin for Sweep Margin Freq MHz PASS
 1.9 243.1

Client: Coble Enterprise
Sample: COB-C6PLO3 # 4
Technician: Dean Beverley

Job No.: 3050088-001-4
Test Date: 10/24/03 4:07 PM
Test Specification: TIA/EIA-568B.2-1

PATCH CORD RETURN LOSS NE



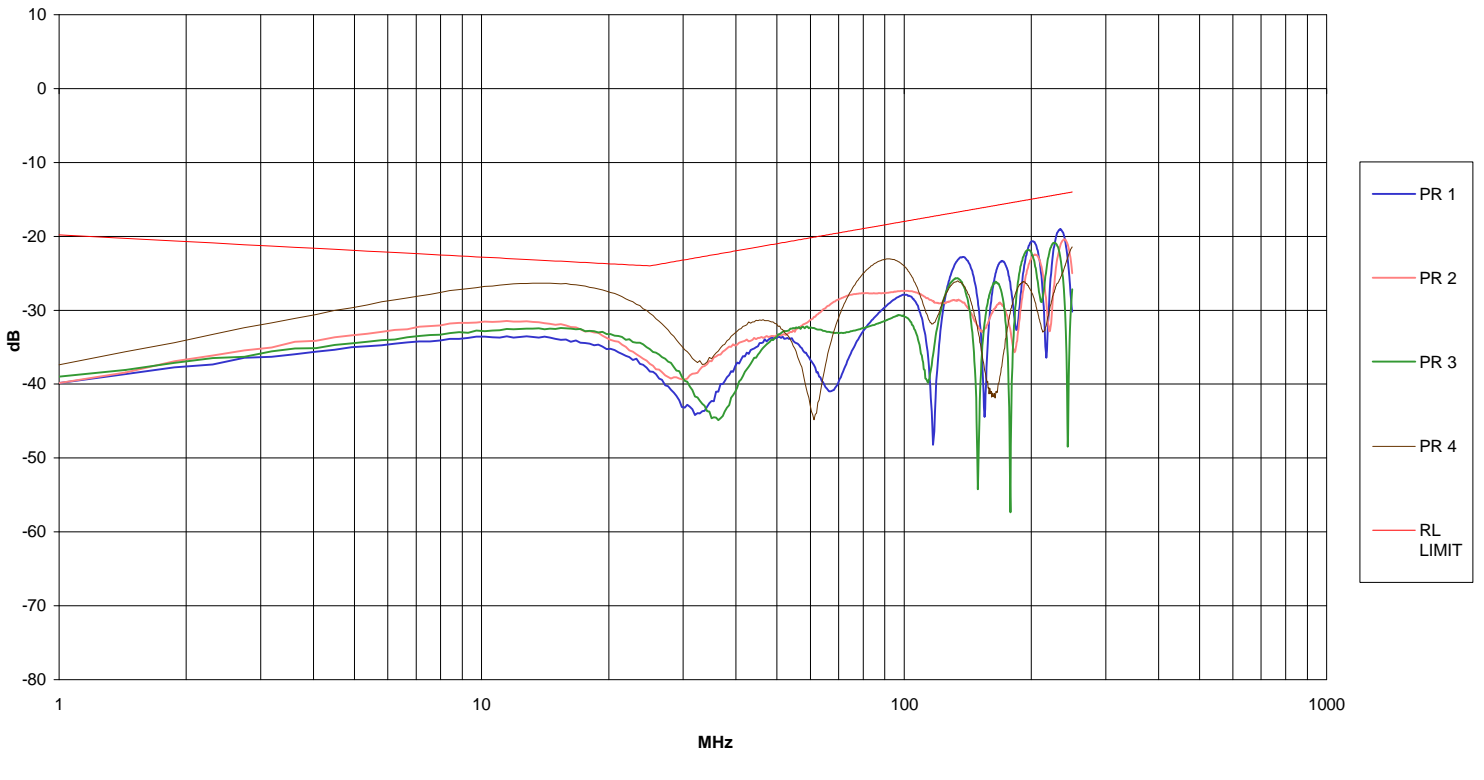
FREQ.	LIMIT	1	2	3	4	WORST CASE MARGIN	
1	-19.8	-39.0	-36.4	-37.2	-34.1	14.2	PASS
4	-21.6	-36.4	-33.6	-35.4	-30.4	8.8	PASS
8	-22.5	-33.9	-31.6	-33.9	-27.1	4.6	PASS
10	-22.8	-33.1	-31.4	-33.6	-26.1	3.3	PASS
16	-23.4	-32.2	-32.8	-34.4	-25.4	2.0	PASS
20	-23.7	-32.9	-36.0	-35.6	-26.2	2.5	PASS
25	-24.0	-35.6	-44.4	-38.0	-29.1	5.1	PASS
31.25	-23.0	-45.5	-38.1	-38.8	-39.2	15.0	PASS
62.5	-20.0	-34.0	-29.0	-29.8	-43.9	9.0	PASS
100	-18.0	-35.2	-39.4	-33.7	-30.9	12.9	PASS
250	-14.0	-31.8	-28.7	-24.7	-24.3	10.3	PASS

Min Margin for Sweep Margin Freq MHz **PASS**
 1.9 15.8

Client: Coble Enterprise
Sample: COB-C6PLO3 # 4
Technician: Dean Beverley

Job No.: 3050088-001-4
Test Date: 10/24/03 4:07 PM
Test Specification: TIA/EIA-568B.2-1

PATCH CORD RETURN LOSS FE

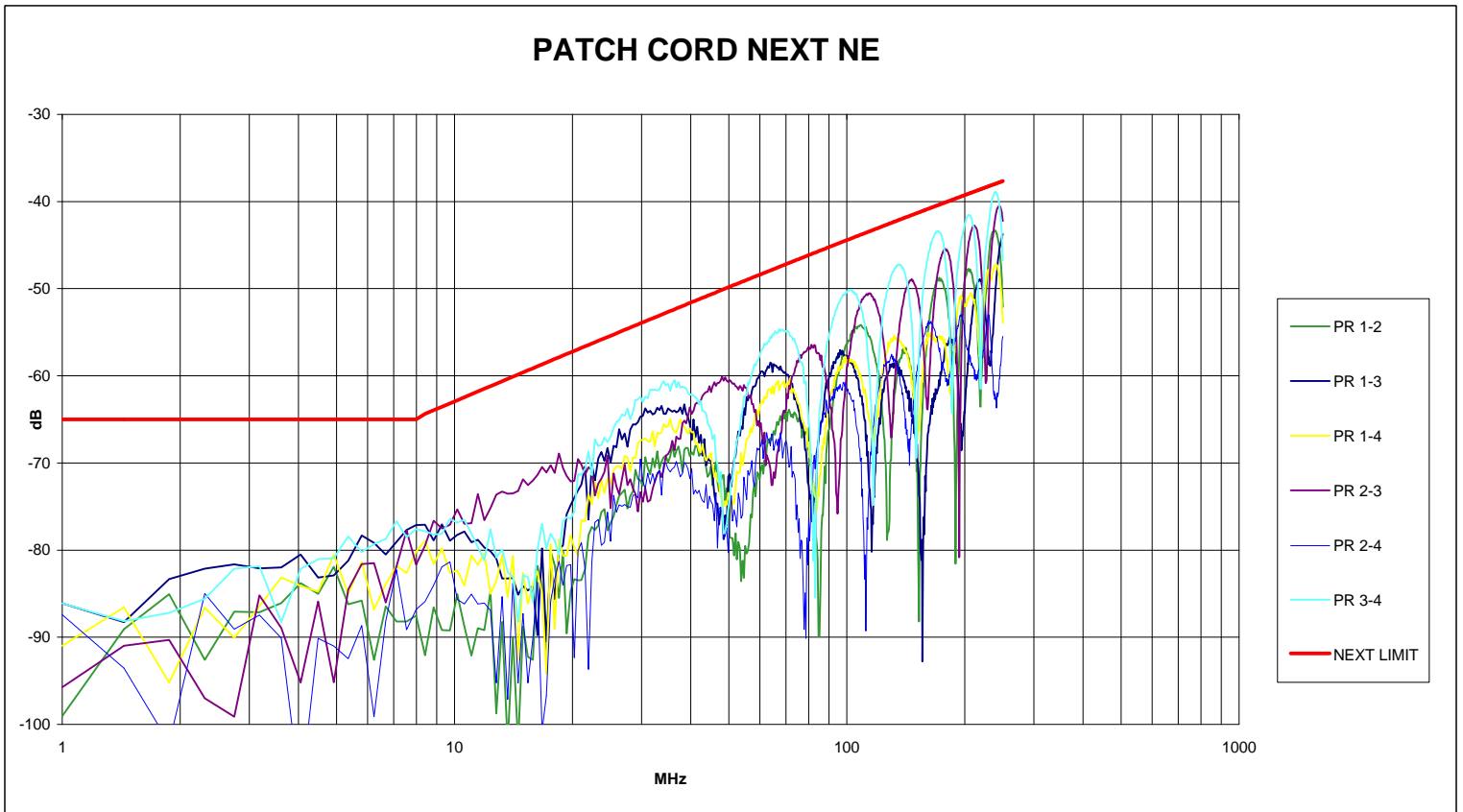


FREQ.	LIMIT	1	2	3	4	WORST CASE MARGIN	
1	-19.8	-39.8	-39.8	-39.0	-37.4	17.6	PASS
4	-21.6	-35.6	-34.1	-35.1	-30.6	9.0	PASS
8	-22.5	-34.1	-32.1	-33.3	-27.6	5.1	PASS
10	-22.8	-33.6	-31.5	-32.8	-26.8	4.0	PASS
16	-23.4	-34.3	-32.3	-32.5	-26.5	3.1	PASS
20	-23.7	-35.2	-34.0	-33.2	-27.6	3.9	PASS
25	-24.0	-38.3	-37.2	-35.3	-30.4	6.4	PASS
31.25	-23.0	-43.0	-38.8	-40.3	-36.0	13.0	PASS
62.5	-20.0	-38.4	-30.5	-32.6	-42.5	10.5	PASS
100	-18.0	-27.9	-27.4	-30.8	-24.0	6.0	PASS
250	-14.0	-30.2	-25.0	-27.2	-21.4	7.4	PASS

Min Margin for Sweep Margin Freq MHz **PASS**
 3.0 15.8

Client: Coble Enterprise
Sample: COB-C6PLO3 # 5
Technician: Dean Beverley

Job No.: 3050088-001-5
Test Date: 10/24/03 4:17 PM
Test Specification: TIA/EIA-568B.2-1

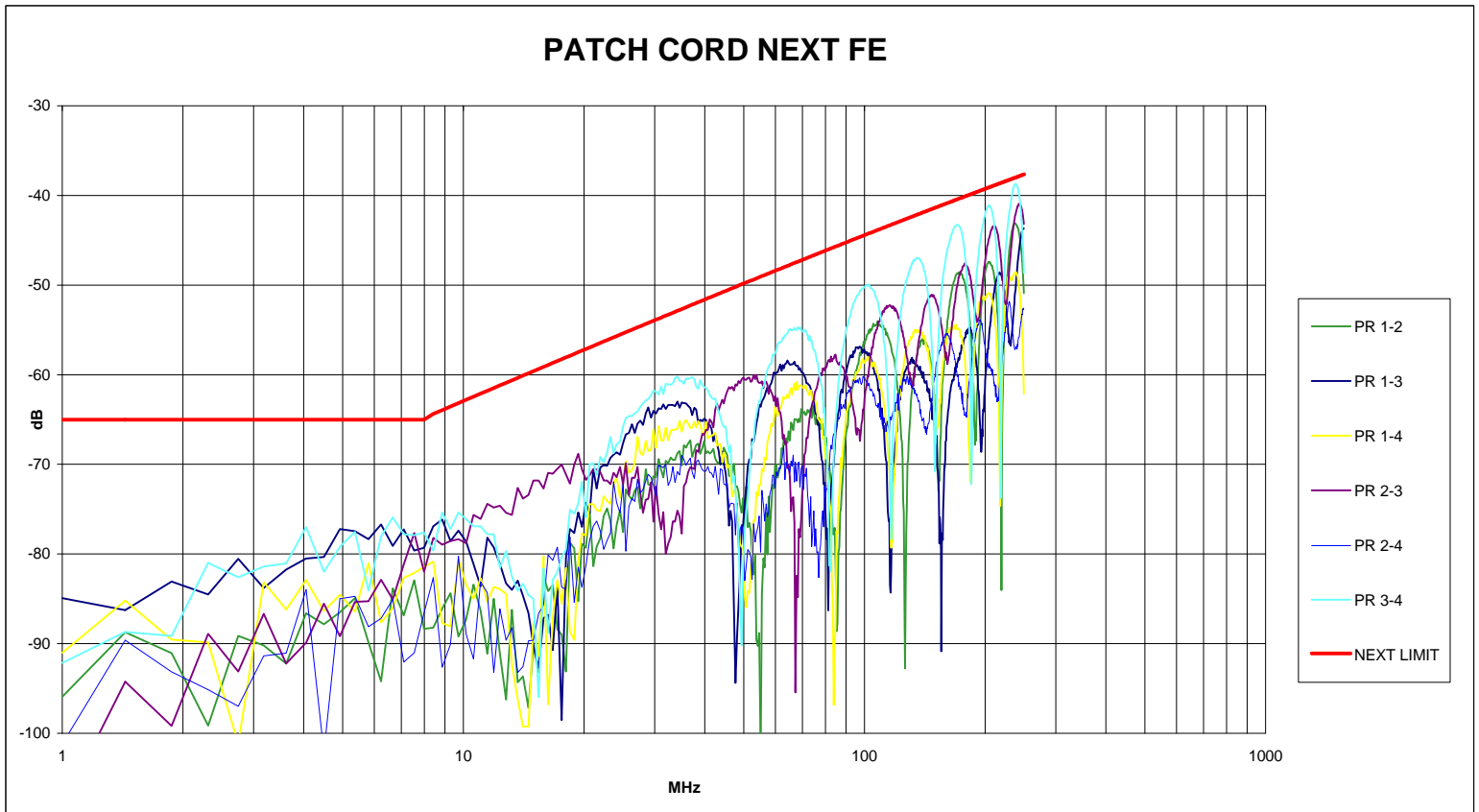


FREQ.	LIMIT	1,2	1,3	1,4	2,3	2,4	3,4	WORST CASE MARGIN	
1	-65.00	-99.05	-86.10	-90.96	-95.74	-87.42	-86.12	21.10	PASS
4	-65.00	-83.80	-80.51	-84.10	-95.19	-108.21	-82.18	15.51	PASS
8	-65.00	-87.54	-77.12	-80.15	-81.69	-86.83	-77.57	12.12	PASS
10	-62.93	-85.05	-78.26	-82.35	-75.33	-85.65	-76.85	12.40	PASS
16	-59.04	-81.82	-89.79	-82.45	-71.38	-83.72	-79.91	12.33	PASS
20	-57.21	-83.33	-73.98	-79.70	-72.06	-92.34	-75.54	14.85	PASS
25	-55.39	-76.92	-69.96	-72.40	-75.20	-78.99	-66.98	11.58	PASS
31.25	-53.59	-70.58	-64.23	-67.51	-74.46	-71.17	-62.55	8.97	PASS
62.5	-48.07	-68.39	-59.28	-62.55	-69.09	-66.51	-56.36	8.29	PASS
100	-44.43	-56.44	-58.00	-58.56	-59.07	-61.77	-50.46	6.03	PASS
250	-37.64	-52.10	-43.75	-53.92	-42.23	-55.49	-46.75	4.59	PASS

Min Margin for Sweep Margin Freq MHz PASS
 0.9 238.3

Client: Coble Enterprise
Sample: COB-C6PLO3 # 5
Technician: Dean Beverley

Job No.: 3050088-001-5
Test Date: 10/24/03 4:17 PM
Test Specification: TIA/EIA-568B.2-1



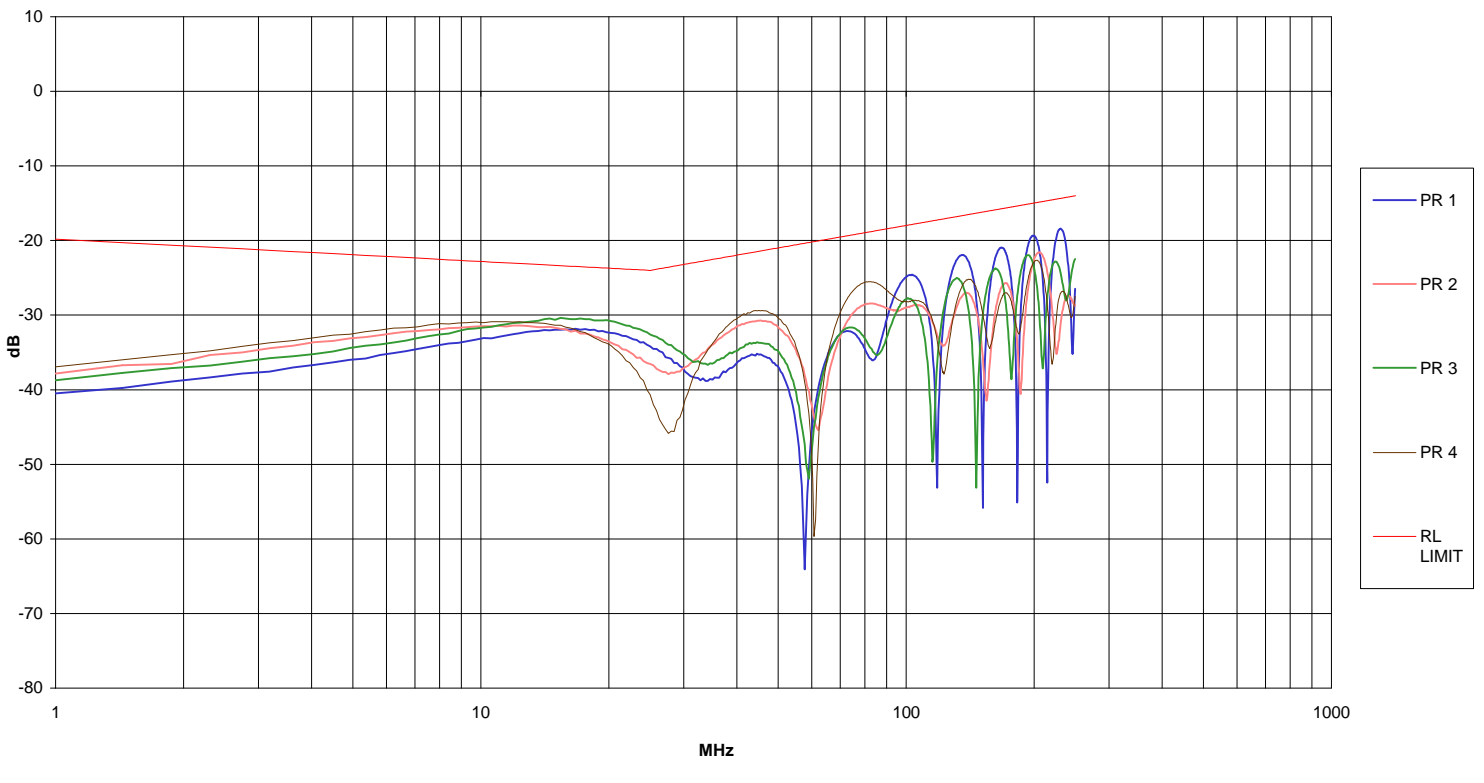
FREQ.	LIMIT	1,2	1,3	1,4	2,3	2,4	3,4	WORST CASE MARGIN	
1	-65.00	-91.62	-102.13	-86.26	-92.14	-101.12	-93.06	21.26	PASS
4	-65.00	-92.24	-81.72	-86.20	-92.23	-91.07	-81.06	16.06	PASS
8	-65.00	-82.93	-79.63	-82.12	-77.67	-91.03	-77.88	12.67	PASS
10	-62.93	-89.21	-77.38	-80.60	-78.34	-80.27	-75.37	12.44	PASS
16	-59.04	-82.41	-87.14	-80.26	-72.71	-85.69	-81.61	13.66	PASS
20	-57.21	-78.86	-76.97	-77.70	-70.54	-83.74	-71.93	13.33	PASS
25	-55.39	-75.13	-68.92	-73.74	-70.31	-75.40	-67.43	12.04	PASS
31.25	-53.59	-69.40	-63.76	-65.74	-75.62	-70.07	-62.22	8.64	PASS
62.5	-48.07	-68.20	-59.58	-63.39	-65.13	-69.90	-56.33	8.26	PASS
100	-44.43	-56.29	-57.18	-58.73	-63.89	-60.29	-50.28	5.85	PASS
250	-37.64	-50.88	-43.71	-62.10	-43.19	-52.57	-48.65	5.54	PASS

Min Margin for Sweep Margin Freq MHz **PASS**
 0.7 238.3

Client: Coble Enterprise
Sample: COB-C6PLO3 # 5
Technician: Dean Beverley

Job No.: 3050088-001-5
Test Date: 10/24/03 4:17 PM
Test Specification: TIA/EIA-568B.2-1

PATCH CORD RETURN LOSS NE



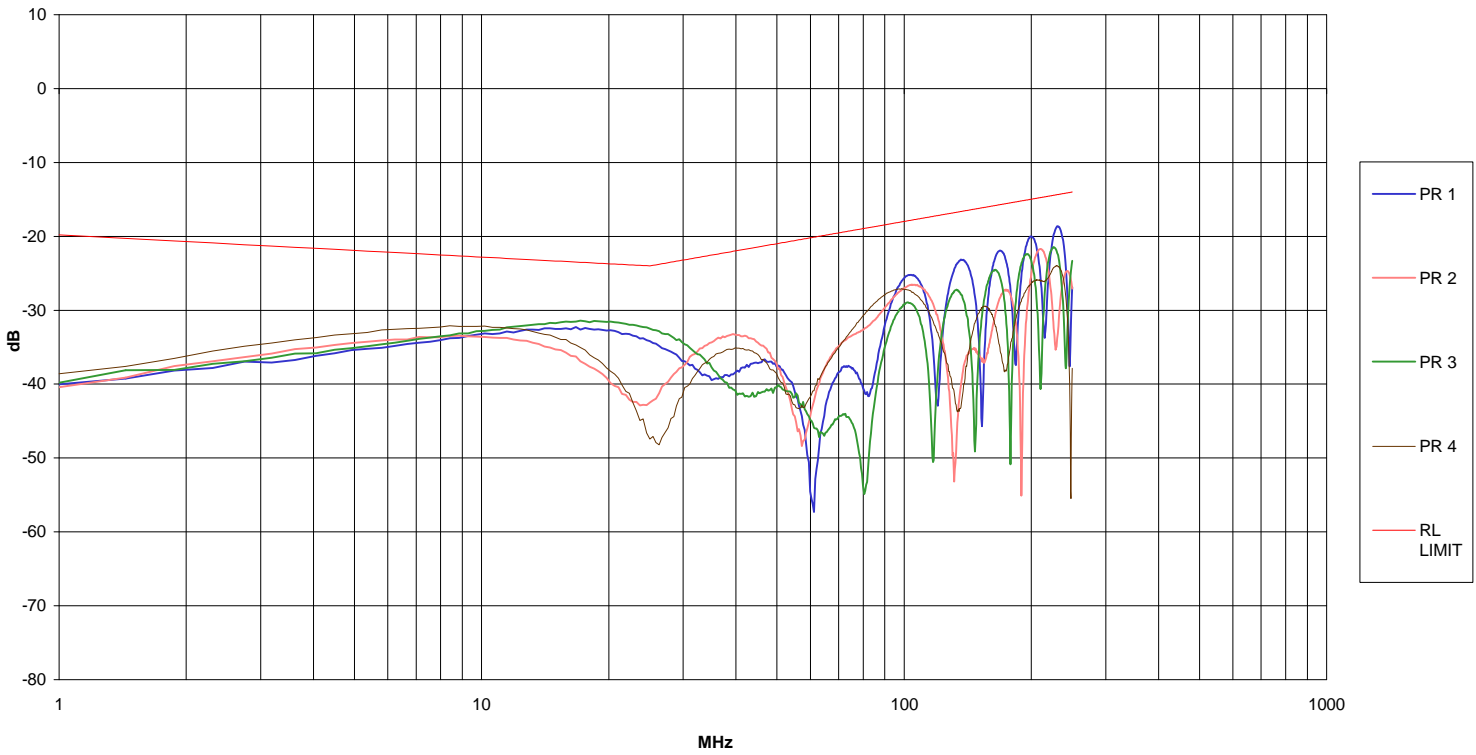
FREQ.	LIMIT	1	2	3	4	WORST CASE MARGIN	
1	-19.8	-39.8	-36.7	-37.7	-36.0	16.2	PASS
4	-21.6	-37.0	-34.1	-35.5	-33.4	11.8	PASS
8	-22.5	-34.3	-32.0	-32.8	-31.3	8.8	PASS
10	-22.8	-33.3	-31.5	-31.8	-30.9	8.1	PASS
16	-23.4	-31.9	-31.9	-30.5	-31.6	7.0	PASS
20	-23.7	-32.3	-33.4	-30.7	-33.7	7.0	PASS
25	-24.0	-34.0	-36.4	-32.3	-40.0	8.3	PASS
31.25	-23.0	-37.9	-36.8	-35.8	-40.4	12.8	PASS
62.5	-20.0	-39.9	-45.4	-41.2	-48.0	19.8	PASS
100	-18.0	-25.0	-29.0	-27.9	-28.2	7.0	PASS
250	-14.0	-26.5	-32.9	-22.5	-27.5	8.5	PASS

Min Margin for Sweep Margin Freq MHz **PASS**
 4.1 230.9

Client: Coble Enterprise
Sample: COB-C6PLO3 # 5
Technician: Dean Beverley

Job No.: 3050088-001-5
Test Date: 10/24/03 4:17 PM
Test Specification: TIA/EIA-568B.2-1

PATCH CORD RETURN LOSS FE



FREQ.	LIMIT	1	2	3	4	WORST CASE MARGIN	
1	-19.8	-40.0	-40.4	-39.8	-38.6	18.8	PASS
4	-21.6	-36.2	-35.0	-35.8	-33.7	12.1	PASS
8	-22.5	-34.0	-33.6	-33.5	-32.3	9.8	PASS
10	-22.8	-33.2	-33.6	-32.8	-32.2	9.3	PASS
16	-23.4	-32.6	-36.2	-31.6	-34.4	8.2	PASS
20	-23.7	-32.7	-39.9	-31.5	-38.2	7.8	PASS
25	-24.0	-34.2	-42.5	-32.5	-47.4	8.5	PASS
31.25	-23.0	-37.5	-36.3	-35.1	-40.0	12.1	PASS
62.5	-20.0	-50.3	-40.3	-46.3	-39.2	19.2	PASS
100	-18.0	-25.6	-27.0	-29.2	-27.2	7.7	PASS
250	-14.0	-26.9	-27.1	-23.3	-37.8	9.3	PASS

Min Margin for Sweep Margin Freq MHz **PASS**
 4.3 230.5