



REPORT INTERTEK / ETL SEMKO

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Phone Number: 1-800-345-3851 Fax Number: 607-758-3648

ORDER NO.: 3022866

DATE: July 29, 2005

REPORT NO.: 3022866-037

RENDERED TO:

Hubbell Premise Wiring
14 Lord's Hill Road
Stonington, CT 06378

TEST: Performance testing of the cabling configurations as defined in and to the requirements of (PN-3-0134) TIA-TSB-155 Draft February 2005 "Additional Guidelines for 4-Pair 100 ohm Category 6 Cabling for 10Gbase-T Applications".

STATEMENT OF LIMITATIONS: 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

ANSI/TIA/EIA-568-B.2 dated April 23 2001

TIA/EIA-568-B.2-1 dated June 2002, Transmission Performance Specifications for 4 Pair, 100 Ω Category 6 Cabling.

AUTHORIZATION: The tests were authorized by Dr. Shadi AbuGhazaleh, representing, Hubbell Premise Wiring.

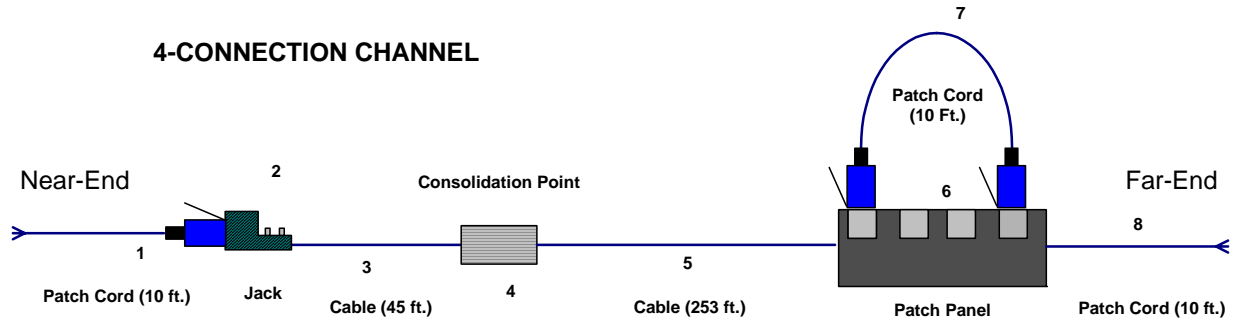
SPECIMEN DESCRIPTION: The Client Submitted 1 complete worst-case 4-Connection Channel configuration as defined in TIA/EIA 568-B.2-1.

DATE OF TEST: 04/05/2005

An independent organization testing for safety, performance, and certification.

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SAMPLE DESCRIPTION:



<u>Component ID</u>	<u>Manufacturer</u>	<u>Part Number</u>	<u>Description</u>
3,5	Hubbell Premise Wiring	C6RPGY	NEXTSPEED C6 UTP Cable
6	Hubbell Premise Wiring	P6E**U ¹	P6E Patch Panel
1,8	Hubbell Premise Wiring	PCX6GY10	Equipment Cord
7	Hubbell Premise Wiring	PCX6GY10	Cross Connect
4	Hubbell Premise Wiring	NS6-110	110 Block
2	Hubbell Premise Wiring	HXJ6	Wall Outlet

1. '**' is the placeholder for to the number of ports in the panel (e.g. 24, 48, etc...)

EQUIPMENT LIST:

The following equipment was employed in conducting the tests.

<u>Equipment Used</u>	<u>Model Number</u>	<u>Serial Number</u>	<u>Control Number</u>	<u>Calibration Date</u>
Hewlett Packard Automatic Cable Test System	HP46152A	87CT10L	02036	11/02/04

PROCEDURE:**Measurements**Attenuation (Insertion Loss)

The Attenuation of all four-conductor pairs was measured in accordance with ASTM D4566-98, Paragraph 26. Losses due to reflection, radiation, etc. are assumed to be part of the attenuation.

Near End Cross Talk (NEXT)

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

Far End Cross Talk (FEXT)

FEXT was measured on twelve permutations of four conductor pairs in accordance with ASTM D 4566-98, Paragraph 25.

Return Loss

Return Loss was measured on all four-conductor pairs in accordance with ASTM D4566-98, Paragraph 45.3.

Calculations

Power Sum NEXT

NEXT Power Sum was determined by the method outlined in ASTM D4566-98, Paragraph 24.6, and TIA/EIA 568-B.2-1, Paragraph 7.2.2.

Equal Level FEXT (ELFEXT)

ELFEXT was computed by using the Attenuation and Far-End Crosstalk for each pair of the links and the method outlined in ASTM D4566-98, Paragraph 25, and ANSI/TIA/EIA-568-B.2-1, Paragraph 7.3.1.3 and I.2.1 Note 1 of ANSI/TIA/EIA-568-B.2.

Power Sum ELFEXT

Power Sum ELFEXT was determined by the method outlined in ASTM D4566-98, Paragraph 25, and TIA/EIA 568-B.2-1, Paragraph 7.3.2.2, and I.2.1 Note 2 of ANSI/TIA/EIA-568-B.2.

Attenuation to Cross Talk Ratio (ACR)

Attenuation to Cross Talk Ratio was determined by the formula "NEXT – Insertion Loss (Attenuation)".

Power Sum ACR

The Power Sum ACR was determined using the same procedure as ACR except that the Power Sum Near-End Cross Talk was used in the computation in lieu of the worst-case NEXT.

REQUIREMENTS:**Measurements**Insertion Loss

Insertion Loss was tested to the requirements of the ANSI/TIA/EIA-568-B.2-1, Paragraph 7.1, using equation (8).

Near End Cross Talk (NEXT)

NEXT was tested to the requirements of ANSI/TIA/EIA-568-B.2-1, Paragraph 7.2.1.4. equation 20.

Return Loss

Return Loss was tested to the requirements of the ANSI/TIA/EIA-568-B.2-1, Paragraph 7.4.5 using equations in table 29.

CalculationsPower Sum NEXT

PS NEXT was tested to the requirements of the ANSI/TIA/EIA-568-B.2-1, Paragraph 7.2.2.2 equation 24.

Equal Level FEXT (ELFEXT)

ELFEXT was tested to the requirements of the ANSI/TIA/EIA-568-B.2-1, Paragraph 7.3.1.3 equation 28.

Power Sum ELFEXT

PS ELFEXT was tested to the requirements of the ANSI/TIA/EIA-568-B.2-1, Paragraph 7.3.2 equation 32.

RESULTS:

See Appendix A for Electrical test results.

CONCLUSION:

The channel configuration, as previously described was tested under the SAT (Supplier Applicant Testing Program) of ETL Intertek Testing Services 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.

Approved By:



Stephen Comer
Laboratory Supervisor
Global Cabling Products Testing

Reviewed By:



Kathy Heath
Program Administrator
Global Cabling Products Testing

APPENDIX A
Test Results

Any data shown above 250 MHz is for indication only.



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Attenuation (Near End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

Attenuation Near End (dB)				
Frequency	Blue	Orange	Green	Brown
1.	-1.90	-1.90	-1.90	-1.80
4.	-3.64	-3.54	-3.64	-3.46
8.	-5.14	-4.94	-5.14	-4.94
10.	-5.79	-5.59	-5.79	-5.54
16.	-7.31	-7.11	-7.31	-7.01
20.	-8.29	-8.05	-8.35	-7.99
25.	-9.35	-9.05	-9.35	-8.95
31.25	-10.45	-10.20	-10.55	-10.10
62.5	-15.10	-14.66	-15.16	-14.56
100.	-19.47	-18.90	-19.67	-18.77
150.	-24.10	-23.60	-24.29	-23.39
155.	-24.79	-24.09	-24.79	-23.79
200.	-28.30	-27.60	-28.70	-27.40
250.	-32.42	-31.40	-32.42	-31.02
300.	-35.70	-34.74	-36.10	-34.54
350.	-39.45	-38.00	-39.50	-37.70
400.	-42.57	-41.00	-42.50	-40.87
450.	-45.38	-44.48	-45.98	-43.88
500.	-49.10	-47.00	-49.00	-46.80



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Attenuation (Far End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

Attenuation Far End (dB)				
Frequency	Blue	Orange	Green	Brown
1.	-1.90	-1.90	-1.90	-1.80
4.	-3.64	-3.54	-3.64	-3.46
8.	-5.14	-4.97	-5.14	-4.94
10.	-5.79	-5.59	-5.79	-5.54
16.	-7.31	-7.11	-7.31	-7.01
20.	-8.29	-8.09	-8.35	-7.99
25.	-9.35	-9.10	-9.35	-8.95
31.25	-10.45	-10.25	-10.55	-10.15
62.5	-15.06	-14.66	-15.16	-14.56
100.	-19.40	-18.87	-19.60	-18.70
150.	-24.29	-23.60	-24.39	-23.39
155.	-24.79	-24.00	-24.80	-23.70
200.	-28.30	-27.70	-28.60	-27.40
250.	-32.42	-31.32	-32.52	-31.02
300.	-35.70	-34.74	-36.04	-34.54
350.	-39.35	-38.00	-39.40	-37.80
400.	-42.70	-41.00	-42.60	-40.74
450.	-45.58	-44.28	-45.80	-43.90
500.	-48.90	-47.00	-49.00	-46.80



Near End Cross Talk (Near End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

NEXT Near End (dB)						
Frequency	Blue - Orange	Blue - Green	Blue - Brown	Orange - Green	Orange - Brown	Green - Brown
1.	-95.10	-89.30	-90.80	-96.60	-90.10	-90.00
4.	-83.90	-81.08	-85.73	-87.40	-89.84	-77.62
8.	-84.53	-75.40	-77.04	-79.20	-80.63	-74.77
10.	-74.33	-75.00	-77.95	-85.46	-73.83	-81.35
16.	-74.70	-72.87	-72.80	-81.56	-83.92	-72.98
20.	-77.36	-69.05	-67.35	-76.84	-76.19	-79.60
25.	-70.58	-68.90	-69.04	-80.46	-77.38	-70.20
31.25	-67.61	-65.90	-71.46	-69.54	-75.54	-65.50
62.5	-70.98	-58.18	-60.93	-72.23	-74.30	-60.12
100.	-65.46	-57.10	-54.91	-61.29	-67.44	-57.90
150.	-59.54	-56.40	-62.78	-54.49	-63.60	-52.89
155.	-58.98	-54.77	-57.24	-54.86	-63.20	-58.24
200.	-56.17	-52.32	-54.87	-50.30	-70.11	-53.18
250.	-51.88	-50.50	-56.20	-49.72	-61.90	-54.90
300.	-49.61	-49.08	-52.08	-49.76	-61.86	-46.48
350.	-51.65	-44.29	-47.76	-47.35	-59.09	-50.84
400.	-47.30	-41.50	-48.02	-41.80	-57.14	-49.79
450.	-45.47	-38.12	-45.47	-40.22	-56.90	-52.53
500.	-44.40	-35.30	-45.40	-39.30	-52.60	-44.70



Near End Cross Talk (Far End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

NEXT Far End (dB)						
Frequency	Blue - Orange	Blue - Green	Blue - Brown	Orange - Green	Orange - Brown	Green - Brown
1.	-97.30	-89.80	-90.80	-95.20	-92.20	-90.60
4.	-92.79	-82.36	-82.86	-84.56	-87.54	-79.66
8.	-81.94	-77.62	-86.80	-78.65	-90.83	-77.59
10.	-81.40	-82.03	-73.50	-83.21	-76.18	-77.99
16.	-81.61	-79.81	-79.41	-73.32	-77.33	-76.81
20.	-74.37	-81.48	-71.57	-78.35	-80.22	-82.31
25.	-80.95	-74.32	-67.95	-69.97	-81.08	-70.12
31.25	-66.80	-71.23	-70.02	-64.94	-85.24	-68.30
62.5	-70.04	-65.59	-64.76	-57.52	-83.29	-62.16
100.	-65.92	-56.09	-60.80	-57.13	-67.62	-54.08
150.	-67.11	-54.70	-68.65	-58.56	-68.23	-65.84
155.	-62.54	-65.38	-57.95	-58.72	-64.21	-64.06
200.	-77.25	-50.09	-56.11	-50.18	-62.79	-51.70
250.	-55.42	-47.86	-59.76	-57.24	-60.50	-58.32
300.	-54.96	-41.89	-57.94	-51.56	-61.40	-50.04
350.	-58.45	-43.11	-62.09	-49.82	-69.25	-59.29
400.	-49.16	-36.36	-52.67	-50.19	-59.60	-47.06
450.	-54.15	-39.92	-55.65	-45.57	-57.11	-51.20
500.	-53.20	-32.60	-50.20	-41.50	-52.80	-43.60



NEXT Worse Case(Near End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

NEXT Worse Case Near End (dB)				
Frequency	Blue	Orange	Green	Brown
1.	-89.30	-90.10	-89.30	-90.00
4.	-80.15	-82.15	-77.36	-76.42
8.	-75.40	-77.53	-74.70	-74.77
10.	-72.18	-73.77	-75.00	-72.24
16.	-72.77	-74.02	-72.87	-72.80
20.	-67.35	-72.37	-69.05	-67.35
25.	-67.10	-70.58	-68.90	-68.15
31.25	-65.15	-66.16	-65.50	-65.50
62.5	-58.18	-70.98	-58.18	-60.04
100.	-54.88	-61.29	-57.10	-54.91
150.	-56.40	-54.49	-52.89	-52.89
155.	-54.77	-54.86	-54.77	-57.24
200.	-52.32	-50.30	-50.30	-53.18
250.	-50.50	-49.72	-49.72	-54.60
300.	-49.08	-49.50	-46.48	-46.48
350.	-44.29	-47.35	-44.29	-47.76
400.	-41.50	-41.80	-41.50	-48.02
450.	-38.12	-40.22	-38.12	-45.47
500.	-35.30	-39.30	-35.30	-44.70



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Near End Cross Talk (Far End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

NEXT Far End (dB)				
Frequency	Blue	Orange	Green	Brown
1.	-89.80	-92.20	-89.80	-90.60
4.	-82.05	-84.56	-79.20	-78.90
8.	-77.47	-77.53	-77.54	-77.39
10.	-73.50	-76.18	-77.19	-73.50
16.	-79.41	-73.32	-73.32	-76.36
20.	-71.57	-74.37	-75.95	-71.57
25.	-67.95	-69.97	-69.44	-67.69
31.25	-65.99	-64.94	-64.94	-66.69
62.5	-64.15	-57.52	-57.52	-62.16
100.	-56.09	-57.13	-54.08	-54.08
150.	-54.70	-58.56	-54.70	-65.78
155.	-57.95	-58.72	-58.72	-57.95
200.	-50.09	-50.18	-50.08	-51.70
250.	-47.86	-55.42	-47.86	-58.24
300.	-41.89	-51.56	-41.89	-50.04
350.	-43.11	-49.82	-43.11	-59.29
400.	-36.36	-49.16	-36.36	-47.06
450.	-39.92	-45.57	-39.92	-51.20
500.	-32.60	-41.50	-32.60	-43.60



NEXT Power Sum (Near End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

PS NEXT Near End (dB)				
Frequency	Blue	Orange	Green	Brown
1.	-86.40	-88.20	-86.20	-85.50
4.	-77.76	-80.64	-75.55	-75.59
8.	-72.81	-75.38	-71.00	-72.12
10.	-69.74	-70.89	-73.44	-70.47
16.	-68.45	-73.02	-69.62	-69.69
20.	-64.83	-70.51	-67.18	-66.22
25.	-64.12	-69.39	-66.29	-65.92
31.25	-62.75	-64.11	-61.84	-63.70
62.5	-56.16	-67.31	-55.94	-57.38
100.	-52.57	-59.15	-53.63	-52.88
150.	-54.01	-52.94	-49.59	-52.15
155.	-51.87	-52.96	-50.96	-54.13
200.	-49.40	-49.30	-47.00	-50.88
250.	-47.48	-47.48	-46.38	-52.00
300.	-45.30	-46.56	-43.40	-45.34
350.	-42.15	-45.75	-41.94	-45.80
400.	-39.77	-40.63	-38.34	-45.49
450.	-36.80	-39.00	-35.92	-44.44
500.	-34.40	-38.00	-33.50	-41.70



Attenuation to Cross Talk Ratio (Near End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

ACR Near End (dB)						
Frequency	Blue - Orange	Blue - Green	Blue - Brown	Orange - Green	Orange - Brown	Green - Brown
1.	93.20	87.40	88.90	94.70	88.20	88.10
4.	80.26	77.44	82.09	83.85	86.30	73.98
8.	79.39	70.26	71.90	74.26	75.69	69.62
10.	68.54	69.21	72.17	79.87	68.24	75.56
16.	67.39	65.56	65.49	74.45	76.81	65.67
20.	69.06	60.75	59.06	68.79	68.15	71.25
25.	61.24	59.55	59.69	71.41	68.33	60.85
31.25	57.16	55.45	61.01	59.34	65.34	54.95
62.5	55.88	43.08	45.83	57.57	59.64	44.96
100.	45.99	37.63	35.43	42.39	48.54	38.23
150.	35.44	32.30	38.68	30.89	40.00	28.60
155.	34.19	29.98	32.45	30.77	39.11	33.45
200.	27.87	24.02	26.57	22.70	42.50	24.48
250.	19.46	18.08	23.78	18.32	30.50	22.48
300.	13.91	13.38	16.38	15.02	27.13	10.38
350.	12.20	4.84	8.30	9.35	21.09	11.34
400.	4.73	-1.06	5.46	0.80	16.14	7.29
450.	0.08	-7.27	0.08	-4.27	12.42	6.54
500.	-4.70	-13.80	-3.70	-7.70	5.60	-4.30



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Attenuation to Cross Talk Ratio (Far End)

Client Hubbell Premise Wiring **Report No** 3022866-037
Specification 4Conn-C6 500 MHz TSB155 Channel
File Name TR485x1d (4CC) HUBB C6 **Length(m)** 100
Test Started 4/5/2005 2:23:46 PM **Temperature** 21.66 °C
Description Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1
Operator Name S. Schultz **Test Status:** Complies

ACR Far End (dB)						
Frequency	Blue - Orange	Blue - Green	Blue - Brown	Orange - Green	Orange - Brown	Green - Brown
1.	95.40	87.90	88.90	93.30	90.30	88.70
4.	89.15	78.71	79.22	81.01	84.00	76.01
8.	76.80	72.48	81.65	73.68	85.86	72.44
10.	75.62	76.25	67.71	77.63	70.60	72.20
16.	74.30	72.50	72.10	66.21	70.22	69.50
20.	66.07	73.18	63.28	70.26	72.13	73.96
25.	71.60	64.98	58.60	60.87	71.99	60.78
31.25	56.35	60.78	59.57	54.69	74.99	57.75
62.5	54.98	50.53	49.70	42.86	68.63	47.00
100.	46.52	36.69	41.40	38.26	48.75	34.48
150.	42.82	30.41	44.37	34.96	44.63	41.45
155.	37.75	40.59	33.16	34.72	40.21	39.26
200.	48.94	21.79	27.80	22.48	35.09	23.09
250.	23.00	15.44	27.34	25.92	29.18	25.80
300.	19.26	6.19	22.24	16.82	26.66	14.00
350.	19.10	3.76	22.74	11.82	31.25	19.89
400.	6.46	-6.34	9.97	9.19	18.60	4.46
450.	8.57	-5.66	10.06	1.28	12.83	5.40
500.	4.30	-16.30	1.30	-5.50	5.80	-5.40



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Power Sum ACR (Near End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

PS ACR Near End (dB)				
Frequency	Blue	Orange	Green	Brown
1.	84.50	86.30	84.30	83.70
4.	74.11	77.10	71.91	72.12
8.	67.67	70.43	65.86	67.18
10.	63.96	65.30	67.66	64.93
16.	61.14	65.91	62.30	62.68
20.	56.54	62.47	58.84	58.23
25.	54.77	60.34	56.95	56.97
31.25	52.30	53.91	51.29	53.60
62.5	41.06	52.65	40.78	42.82
100.	33.10	40.25	33.96	34.11
150.	29.91	29.34	25.30	28.76
155.	27.08	28.87	26.17	30.34
200.	21.09	21.69	18.30	23.47
250.	15.06	16.08	13.96	20.98
300.	9.60	11.83	7.30	10.81
350.	2.70	7.75	2.44	8.10
400.	-2.80	-0.37	-4.16	4.62
450.	-8.58	-5.48	-10.07	0.55
500.	-14.70	-9.00	-15.50	-5.10



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Power Sum ACR (Far End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

PS ACR Far End (dB)				
Frequency	Blue	Orange	Green	Brown
1.	85.00	87.70	84.60	84.60
4.	75.69	78.85	73.11	73.70
8.	70.34	70.99	67.94	71.23
10.	65.23	68.27	68.76	64.97
16.	68.13	64.30	63.76	65.85
20.	61.04	63.84	65.48	61.98
25.	57.34	59.80	56.68	56.56
31.25	53.19	52.44	51.99	55.24
62.5	46.35	42.60	40.52	45.64
100.	35.10	37.39	31.22	34.35
150.	29.95	34.03	28.54	38.80
155.	31.29	32.45	32.15	32.51
200.	20.79	22.28	17.18	22.70
250.	14.52	21.12	14.52	23.66
300.	5.89	14.92	4.86	14.60
350.	3.56	11.22	2.81	19.39
400.	-6.64	5.46	-6.74	5.10
450.	-5.95	0.47	-7.16	5.20
500.	-16.40	-6.10	-17.20	-4.50



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FEXT (Near End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

FEXT Near End (dB)						
Frequency	Blue - Orange	Blue - Green	Blue - Brown	Orange - Blue	Orange - Green	Orange - Brown
1.	-97.50	-91.80	-83.40	-99.60	-91.90	-78.30
4.	-90.36	-90.19	-73.63	-87.62	-79.99	-68.07
8.	-87.14	-98.98	-68.74	-83.73	-74.98	-63.77
10.	-86.90	-103.83	-67.30	-81.64	-74.30	-62.11
16.	-86.23	-88.45	-64.51	-76.71	-74.82	-59.89
20.	-83.41	-81.32	-64.00	-84.24	-71.08	-58.90
25.	-77.93	-77.21	-64.60	-80.68	-71.62	-57.66
31.25	-79.44	-71.45	-66.55	-77.30	-71.60	-57.10
62.5	-77.56	-69.06	-64.18	-75.78	-65.84	-55.60
100.	-79.23	-69.91	-64.07	-82.14	-71.84	-56.23
150.	-81.30	-68.41	-59.28	-77.60	-69.08	-57.81
155.	-75.93	-66.16	-60.77	-78.48	-68.47	-58.19
200.	-73.46	-81.96	-65.48	-73.05	-81.30	-62.38
250.	-81.70	-73.26	-69.12	-86.62	-73.48	-64.38
300.	-83.33	-73.11	-65.62	-82.46	-73.29	-69.26
350.	-82.66	-78.50	-85.82	-85.49	-78.60	-72.62
400.	-89.98	-68.09	-76.88	-81.83	-77.90	-80.78
450.	-84.41	-77.09	-71.78	-86.19	-82.55	-83.22
500.	-98.30	-79.20	-90.70	-91.00	-84.90	-88.10



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FEXT (Near End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

FEXT Near End (dB)						
Frequency	Green - Blue	Green - Orange	Green - Brown	Brown - Blue	Brown - Orange	Brown - Green
1.	-91.00	-92.20	-80.50	-83.10	-78.30	-80.40
4.	-85.85	-80.53	-70.95	-73.29	-68.23	-70.90
8.	-82.84	-76.50	-67.69	-68.28	-63.57	-68.04
10.	-79.81	-75.24	-67.16	-67.39	-62.27	-66.73
16.	-74.82	-73.67	-67.38	-64.88	-59.78	-66.05
20.	-74.77	-72.71	-67.93	-64.62	-58.60	-66.83
25.	-74.33	-72.06	-66.80	-64.64	-57.70	-66.42
31.25	-75.30	-71.05	-63.15	-68.25	-56.90	-63.25
62.5	-70.32	-66.74	-61.96	-64.32	-55.70	-61.68
100.	-71.01	-78.15	-59.00	-63.67	-56.27	-58.48
150.	-67.89	-68.39	-64.61	-59.68	-58.69	-64.10
155.	-67.17	-68.48	-65.38	-61.99	-58.99	-64.38
200.	-78.48	-69.88	-68.23	-65.87	-60.99	-70.38
250.	-66.96	-73.28	-74.38	-72.02	-65.06	-72.64
300.	-72.49	-74.49	-74.42	-65.27	-67.85	-71.64
350.	-73.00	-80.04	-75.97	-84.05	-75.90	-76.24
400.	-70.39	-87.21	-75.48	-83.59	-85.11	-70.38
450.	-77.83	-77.35	-82.72	-71.54	-90.95	-78.07
500.	-84.80	-82.90	-83.90	-79.00	-84.30	-73.60



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FEXT (Far End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

FEXT Far End (dB)						
Frequency	Blue - Orange	Blue - Green	Blue - Brown	Orange - Blue	Orange - Green	Orange - Brown
1.	-99.40	-92.10	-82.90	-99.00	-91.90	-78.10
4.	-88.33	-85.84	-73.27	-90.21	-80.09	-68.11
8.	-83.32	-82.67	-68.28	-87.46	-76.36	-63.54
10.	-81.37	-79.57	-67.39	-87.54	-75.09	-62.27
16.	-76.65	-74.52	-64.77	-86.11	-73.48	-59.78
20.	-82.97	-74.86	-64.52	-82.63	-72.62	-58.55
25.	-80.54	-73.88	-64.64	-77.53	-71.96	-57.65
31.25	-76.95	-74.80	-68.15	-79.30	-70.75	-56.85
62.5	-75.66	-70.32	-64.26	-76.88	-66.80	-55.66
100.	-82.58	-71.02	-63.57	-78.87	-78.00	-56.27
150.	-77.39	-67.80	-59.66	-81.16	-68.39	-58.68
155.	-78.44	-67.18	-61.98	-75.86	-68.58	-58.98
200.	-73.24	-78.63	-65.96	-73.25	-69.97	-60.89
250.	-86.74	-66.88	-72.00	-81.74	-73.00	-64.96
300.	-82.22	-72.30	-65.20	-83.17	-74.23	-67.82
350.	-84.35	-72.90	-84.11	-82.58	-80.23	-76.10
400.	-81.98	-70.23	-83.66	-89.01	-87.07	-85.21
450.	-84.35	-77.82	-71.17	-83.99	-77.50	-89.29
500.	-91.00	-85.60	-80.70	-102.20	-83.10	-84.10



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FEXT (Far End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

FEXT Far End (dB)						
Frequency	Green - Blue	Green - Orange	Green - Brown	Brown - Blue	Brown - Orange	Brown - Green
1.	-92.50	-92.20	-80.30	-82.70	-78.20	-80.10
4.	-90.11	-79.63	-70.99	-73.61	-67.97	-70.79
8.	-102.31	-74.83	-68.04	-68.64	-63.77	-67.69
10.	-104.48	-74.24	-66.63	-67.20	-62.11	-67.10
16.	-87.95	-74.82	-66.04	-64.41	-59.88	-67.38
20.	-81.09	-70.88	-66.84	-64.00	-58.80	-67.83
25.	-77.11	-71.33	-66.47	-64.56	-57.60	-66.80
31.25	-71.50	-71.40	-63.20	-66.50	-57.00	-63.10
62.5	-69.10	-65.92	-61.58	-64.18	-55.60	-62.00
100.	-69.81	-71.76	-58.46	-63.97	-56.20	-58.93
150.	-68.32	-68.86	-64.09	-59.19	-57.80	-64.51
155.	-66.26	-68.45	-64.47	-60.77	-58.19	-65.27
200.	-81.70	-81.28	-70.18	-65.48	-62.38	-68.03
250.	-73.06	-73.40	-72.64	-68.94	-64.40	-74.20
300.	-73.04	-73.09	-71.44	-65.56	-69.12	-74.36
350.	-78.69	-78.47	-76.46	-84.99	-72.27	-75.76
400.	-67.99	-77.67	-70.39	-76.65	-80.28	-75.66
450.	-76.82	-82.88	-78.26	-71.68	-83.02	-81.94
500.	-80.00	-87.80	-73.60	-92.00	-87.80	-82.60



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Power Sum FEXT (Near End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

PS FEXT Near End (dB)				
Frequency	Blue	Orange	Green	Brown
1.	-82.40	-78.10	-79.80	-75.50
4.	-72.90	-67.93	-70.39	-65.55
8.	-68.03	-63.37	-67.27	-61.37
10.	-66.99	-62.03	-66.03	-60.00
16.	-64.19	-59.58	-65.52	-58.09
20.	-64.13	-58.40	-65.33	-57.35
25.	-64.05	-57.50	-65.01	-56.46
31.25	-67.05	-56.70	-62.10	-55.75
62.5	-63.06	-55.36	-59.72	-54.26
100.	-62.86	-56.24	-58.01	-53.93
150.	-58.98	-58.19	-61.80	-55.00
155.	-60.78	-58.49	-61.30	-55.78
200.	-64.87	-60.28	-69.78	-59.98
250.	-65.70	-64.38	-68.36	-62.76
300.	-64.44	-66.89	-67.84	-63.62
350.	-72.44	-73.78	-72.85	-70.76
400.	-69.83	-82.22	-65.78	-72.22
450.	-70.32	-76.35	-73.81	-71.16
500.	-77.80	-80.50	-72.30	-81.90



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Power Sum FEXT (Far End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

PS FEXT Far End (dB)				
Frequency	Blue	Orange	Green	Brown
1.	-82.20	-78.00	-79.60	-75.20
4.	-73.41	-67.67	-70.19	-65.53
8.	-68.54	-63.37	-66.99	-61.27
10.	-67.14	-61.81	-66.23	-60.03
16.	-64.41	-59.68	-65.80	-57.88
20.	-63.90	-58.50	-65.94	-57.10
25.	-64.11	-57.40	-65.05	-56.40
31.25	-65.15	-56.80	-62.15	-55.65
62.5	-62.80	-55.20	-60.26	-54.26
100.	-62.87	-56.10	-58.60	-53.73
150.	-58.69	-57.40	-61.80	-55.48
155.	-59.59	-57.78	-62.07	-56.48
200.	-64.68	-61.98	-65.60	-59.38
250.	-67.38	-63.88	-65.32	-63.62
300.	-64.79	-67.52	-68.64	-62.71
350.	-76.48	-71.12	-70.58	-72.90
400.	-67.39	-74.24	-69.04	-70.00
450.	-70.30	-78.44	-73.83	-70.31
500.	-79.70	-83.90	-78.80	-72.50



ELFEXT (Near End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

ELFEXT Near End (dB)						
Frequency	Blue - Orange	Blue - Green	Blue - Brown	Orange - Blue	Orange - Green	Orange - Brown
1.	-95.60	-89.90	-81.50	-97.70	-90.00	-76.40
4.	-86.71	-86.54	-69.99	-84.08	-76.45	-64.52
8.	-82.00	-93.83	-63.60	-78.79	-70.03	-58.82
10.	-81.12	-98.04	-61.51	-76.06	-68.71	-56.53
16.	-78.92	-81.14	-57.20	-69.60	-67.71	-52.78
20.	-75.11	-73.02	-55.71	-76.19	-63.04	-50.85
25.	-68.58	-67.86	-55.26	-71.64	-62.58	-48.61
31.25	-69.00	-61.00	-56.10	-67.10	-61.40	-46.90
62.5	-62.46	-53.96	-49.08	-61.12	-51.18	-40.94
100.	-59.76	-50.44	-44.60	-63.24	-52.94	-37.33
150.	-57.20	-44.31	-35.18	-54.00	-45.48	-34.21
155.	-51.14	-41.37	-35.98	-54.39	-44.38	-34.10
200.	-45.15	-53.66	-37.17	-45.45	-53.69	-34.78
250.	-49.28	-40.84	-36.70	-55.22	-42.08	-32.98
300.	-47.63	-37.41	-29.92	-47.72	-38.55	-34.52
350.	-43.21	-39.05	-46.37	-47.49	-40.60	-34.62
400.	-47.41	-25.52	-34.32	-40.83	-36.90	-39.78
450.	-39.03	-31.70	-26.40	-41.71	-38.07	-38.74
500.	-49.20	-30.10	-41.60	-44.00	-37.90	-41.10



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ELFEXT (Near End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

ELFEXT Near End (dB)						
Frequency	Green - Blue	Green - Orange	Green - Brown	Brown - Blue	Brown - Orange	Brown - Green
1.	-89.10	-90.30	-78.60	-81.30	-76.50	-78.60
4.	-82.20	-76.89	-67.30	-69.82	-64.77	-67.44
8.	-77.70	-71.36	-62.54	-63.33	-58.62	-63.10
10.	-74.03	-69.46	-61.37	-61.84	-56.73	-61.19
16.	-67.51	-66.35	-60.07	-57.87	-52.77	-59.04
20.	-66.42	-64.37	-59.58	-56.63	-50.61	-58.84
25.	-64.98	-62.71	-57.45	-55.70	-48.76	-57.47
31.25	-64.75	-60.50	-52.60	-58.15	-46.80	-53.15
62.5	-55.16	-51.58	-46.80	-49.76	-41.14	-47.12
100.	-51.33	-58.48	-39.33	-44.90	-37.50	-39.71
150.	-43.60	-44.10	-40.32	-36.29	-35.30	-40.71
155.	-42.38	-43.69	-40.59	-38.20	-35.20	-40.59
200.	-49.78	-41.18	-39.53	-38.46	-33.58	-42.98
250.	-34.54	-40.86	-41.96	-41.00	-34.04	-41.62
300.	-36.39	-38.39	-38.32	-30.74	-33.32	-37.10
350.	-33.50	-40.54	-36.47	-46.35	-38.20	-38.54
400.	-27.89	-44.71	-32.98	-42.72	-44.24	-29.52
450.	-31.84	-31.36	-36.74	-27.65	-47.07	-34.19
500.	-35.80	-33.90	-34.90	-32.20	-37.50	-26.80



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ELFEXT (Far End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

ELFEXT Far End (dB)						
Frequency	Blue - Orange	Blue - Green	Blue - Brown	Orange - Blue	Orange - Green	Orange - Brown
1.	-97.50	-90.20	-81.00	-97.10	-90.00	-76.20
4.	-84.69	-82.20	-69.62	-86.67	-76.55	-64.57
8.	-78.18	-77.52	-63.13	-82.49	-71.39	-58.58
10.	-75.59	-73.79	-61.60	-81.96	-69.50	-56.69
16.	-69.34	-67.21	-57.46	-79.00	-66.37	-52.67
20.	-74.68	-66.57	-56.22	-74.54	-64.53	-50.45
25.	-71.19	-64.53	-55.29	-68.43	-62.86	-48.56
31.25	-66.50	-64.35	-57.70	-69.05	-60.50	-46.60
62.5	-60.60	-55.26	-49.20	-62.22	-52.14	-41.00
100.	-63.18	-51.62	-44.17	-60.00	-59.13	-37.40
150.	-53.10	-43.51	-35.38	-57.56	-44.79	-35.08
155.	-53.65	-42.39	-37.19	-51.86	-44.58	-34.98
200.	-44.94	-50.33	-37.66	-45.55	-42.27	-33.19
250.	-54.32	-34.46	-39.58	-50.42	-41.68	-33.64
300.	-46.52	-36.60	-29.50	-48.44	-39.49	-33.09
350.	-45.00	-33.55	-44.75	-44.58	-42.23	-38.10
400.	-39.28	-27.53	-40.96	-48.01	-46.07	-44.21
450.	-38.77	-32.24	-25.58	-39.70	-33.21	-45.01
500.	-42.10	-36.70	-31.80	-55.20	-36.10	-37.10



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ELFEXT (Far End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

ELFEXT Far End (dB)						
Frequency	Green - Blue	Green - Orange	Green - Brown	Brown - Blue	Brown - Orange	Brown - Green
1.	-90.60	-90.30	-78.40	-80.90	-76.40	-78.30
4.	-86.47	-75.99	-67.34	-70.15	-64.50	-67.32
8.	-97.17	-69.69	-62.90	-63.70	-58.82	-62.74
10.	-98.70	-68.46	-60.84	-61.66	-56.57	-61.56
16.	-80.63	-67.51	-58.73	-57.40	-52.87	-60.37
20.	-72.74	-62.54	-58.49	-56.01	-50.81	-59.84
25.	-67.77	-61.99	-57.12	-55.61	-48.66	-57.85
31.25	-60.95	-60.85	-52.65	-56.35	-46.85	-52.95
62.5	-53.94	-50.76	-46.42	-49.62	-41.04	-47.44
100.	-50.21	-52.16	-38.86	-45.27	-37.50	-40.23
150.	-43.94	-44.48	-39.70	-35.80	-34.41	-41.12
155.	-41.46	-43.65	-39.67	-37.07	-34.49	-41.57
200.	-53.09	-52.68	-41.58	-38.07	-34.98	-40.63
250.	-40.54	-40.88	-40.12	-37.92	-33.38	-43.18
300.	-37.00	-37.06	-35.40	-31.02	-34.59	-39.82
350.	-39.29	-39.07	-37.06	-47.19	-34.47	-37.96
400.	-25.39	-35.07	-27.79	-35.91	-39.54	-34.93
450.	-31.02	-37.08	-32.46	-27.78	-39.12	-38.04
500.	-31.00	-38.80	-24.60	-45.20	-41.00	-35.80



ETL SEMKO

Power Sum ELFEXT (Near End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

PS ELFEXT Near End (dB)				
Frequency	Blue	Orange	Green	Brown
1.	-80.50	-76.20	-77.90	-73.70
4.	-69.26	-64.39	-66.74	-62.09
8.	-62.89	-58.42	-62.12	-56.42
10.	-61.20	-56.44	-60.24	-54.46
16.	-56.88	-52.47	-58.21	-51.08
20.	-55.84	-50.35	-56.98	-49.35
25.	-54.70	-48.46	-55.66	-47.51
31.25	-56.60	-46.50	-51.55	-45.65
62.5	-47.96	-40.70	-44.56	-39.70
100.	-43.38	-37.34	-38.34	-35.16
150.	-34.88	-34.59	-37.51	-31.61
155.	-35.99	-34.40	-36.51	-31.99
200.	-36.57	-32.68	-41.08	-32.58
250.	-33.28	-32.98	-35.94	-31.74
300.	-28.74	-32.15	-31.74	-29.08
350.	-32.99	-35.78	-33.35	-33.06
400.	-27.26	-41.22	-23.28	-31.35
450.	-24.93	-31.86	-27.83	-27.28
500.	-28.70	-33.50	-23.30	-35.10



ETL SEMKO

Power Sum ELFEXT (Far End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

PS ELFEXT Far End (dB)				
Frequency	Blue	Orange	Green	Brown
1.	-80.30	-76.10	-77.70	-73.40
4.	-69.77	-64.12	-66.54	-62.07
8.	-63.40	-58.40	-61.84	-56.32
10.	-61.36	-56.23	-60.44	-54.49
16.	-57.10	-52.57	-58.49	-50.87
20.	-55.61	-50.41	-57.59	-49.11
25.	-54.77	-48.31	-55.70	-47.45
31.25	-54.70	-46.55	-51.60	-45.50
62.5	-47.74	-40.54	-45.10	-39.70
100.	-43.47	-37.23	-39.00	-35.03
150.	-34.40	-33.80	-37.41	-32.09
155.	-34.80	-33.78	-37.27	-32.78
200.	-36.37	-34.28	-37.00	-31.98
250.	-34.96	-32.56	-32.80	-32.60
300.	-29.09	-32.79	-32.61	-28.17
350.	-37.13	-33.12	-31.18	-35.10
400.	-24.69	-33.24	-26.44	-29.26
450.	-24.72	-34.16	-28.03	-26.41
500.	-30.80	-36.90	-29.80	-25.70



Structural Return Loss (Terminated Near End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

SRL Near End (dB)				
Frequency	Blue	Orange	Green	Brown
1.	-33.90	-37.30	-40.40	-38.10
4.	-30.31	-40.90	-42.59	-35.62
8.	-45.56	-46.87	-44.59	-31.64
10.	-35.67	-43.39	-42.30	-33.11
16.	-64.83	-39.75	-40.13	-31.25
20.	-41.74	-36.46	-57.40	-31.24
25.	-34.61	-32.13	-40.52	-27.20
31.25	-37.05	-45.94	-37.99	-45.90
62.5	-34.90	-36.77	-36.47	-29.88
100.	-22.17	-40.01	-32.37	-37.12
150.	-29.56	-38.75	-47.91	-39.12
155.	-24.59	-51.04	-37.19	-35.47
200.	-34.78	-41.93	-37.58	-39.89
250.	-22.96	-60.65	-29.35	-51.47
300.	-24.80	-45.72	-24.78	-24.33
350.	-52.61	-49.37	-24.20	-23.98
400.	-36.15	-22.84	-23.68	-17.53
450.	-34.52	-19.10	-23.60	-23.68
500.	-49.10	-22.30	-16.60	-32.50



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Structural Return Loss (Terminated Far End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

SRL Far End (dB)				
Frequency	Blue	Orange	Green	Brown
1.	-56.80	-47.10	-35.70	-32.00
4.	-44.47	-41.62	-37.68	-52.01
8.	-32.68	-41.08	-34.92	-51.45
10.	-35.41	-44.07	-39.00	-45.00
16.	-50.98	-40.29	-55.66	-44.18
20.	-43.27	-54.30	-51.91	-50.95
25.	-39.75	-34.40	-41.35	-43.61
31.25	-31.90	-30.41	-30.39	-24.75
62.5	-26.50	-50.84	-27.63	-35.19
100.	-44.01	-42.73	-56.57	-36.54
150.	-21.25	-41.05	-25.22	-29.43
155.	-30.74	-28.76	-24.71	-61.84
200.	-37.46	-28.43	-27.15	-24.71
250.	-16.22	-24.04	-35.11	-40.42
300.	-33.81	-31.52	-31.20	-29.55
350.	-14.74	-42.37	-29.65	-23.69
400.	-43.19	-25.03	-30.14	-28.96
450.	-21.59	-19.02	-19.09	-24.80
500.	-19.70	-23.40	-22.20	-55.60



Return Loss (Near End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

Return Loss (dB)				
Frequency	Blue	Orange	Green	Brown
1.	-40.60	-35.90	-33.90	-36.30
4.	-45.72	-36.27	-34.80	-34.18
8.	-30.06	-36.23	-35.59	-30.77
10.	-37.89	-33.19	-46.27	-32.03
16.	-30.72	-33.17	-62.16	-30.36
20.	-33.68	-31.91	-38.32	-30.39
25.	-39.93	-29.54	-33.88	-26.65
31.25	-36.30	-48.28	-32.59	-49.78
62.5	-38.97	-34.49	-31.77	-29.10
100.	-26.27	-43.52	-38.17	-35.48
150.	-24.07	-37.85	-43.21	-41.82
155.	-21.09	-48.23	-31.98	-37.17
200.	-39.21	-41.54	-52.95	-41.95
250.	-20.00	-62.17	-32.71	-46.78
300.	-31.03	-45.33	-23.28	-24.77
350.	-31.96	-52.46	-25.80	-23.63
400.	-38.38	-22.68	-22.34	-17.73
450.	-40.09	-19.20	-25.09	-23.28
500.	-31.70	-22.20	-16.10	-33.60



Return Loss (Far End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

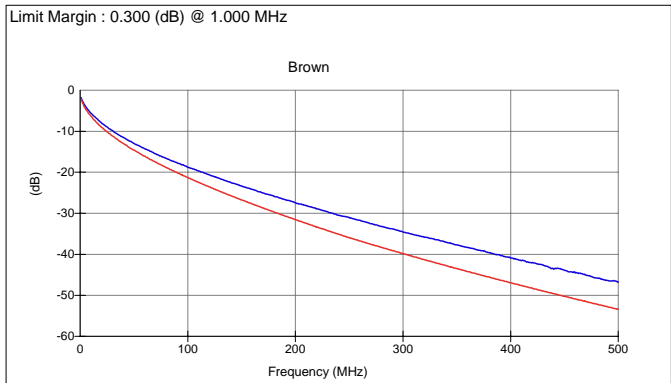
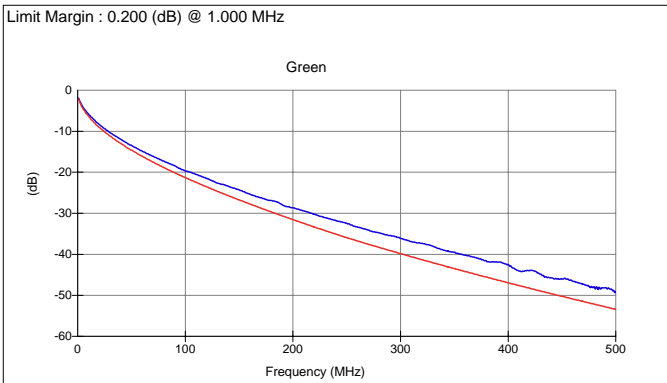
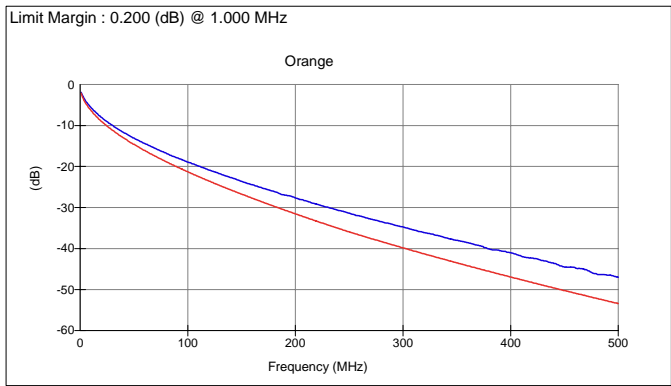
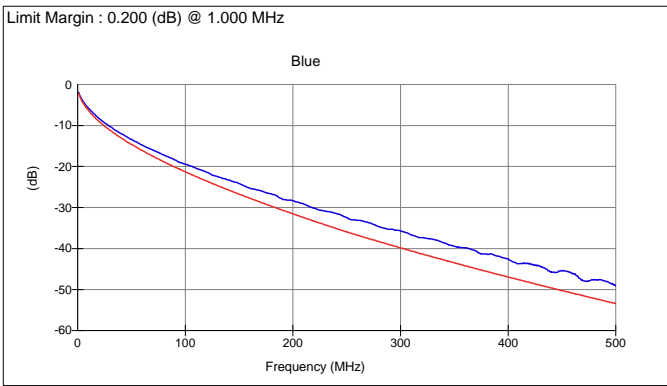
Return Loss (dB)				
Frequency	Blue	Orange	Green	Brown
1.	-39.90	-37.40	-34.30	-37.20
4.	-42.75	-34.92	-35.96	-37.35
8.	-37.55	-67.29	-36.58	-41.46
10.	-42.24	-42.14	-41.99	-42.54
16.	-38.64	-64.34	-57.77	-52.46
20.	-55.07	-42.17	-56.39	-44.25
25.	-41.61	-40.01	-45.44	-49.36
31.25	-29.40	-28.11	-29.60	-24.45
62.5	-25.00	-41.94	-26.99	-34.83
100.	-54.63	-60.97	-45.40	-36.38
150.	-22.07	-59.30	-25.63	-29.34
155.	-33.84	-26.85	-25.11	-60.75
200.	-32.97	-30.83	-26.55	-24.71
250.	-16.72	-25.42	-36.73	-41.26
300.	-30.71	-35.08	-30.37	-29.45
350.	-15.14	-34.88	-28.94	-23.79
400.	-45.26	-26.49	-31.01	-29.16
450.	-22.52	-18.32	-18.80	-24.70
500.	-20.50	-22.30	-22.50	-61.00



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Attenuation (Near End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

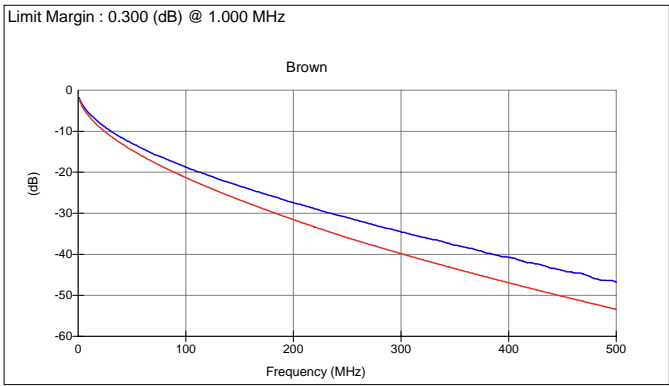
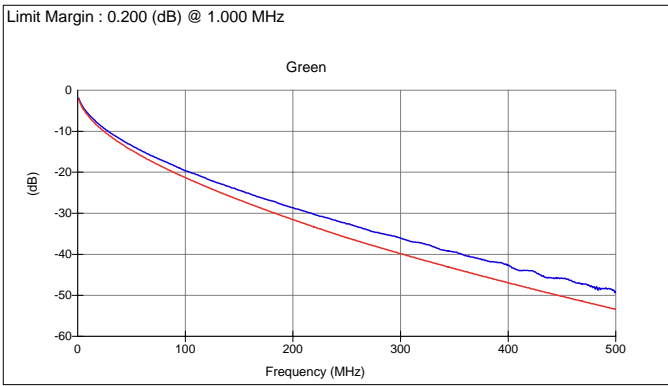
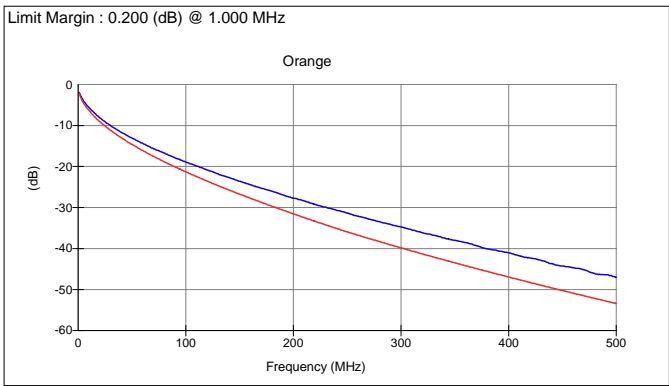
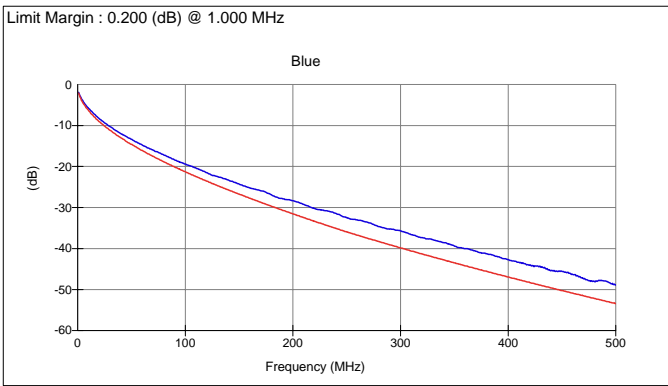




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Attenuation (Far End)

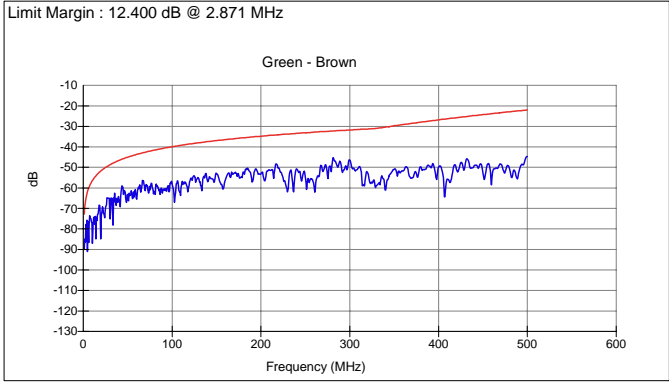
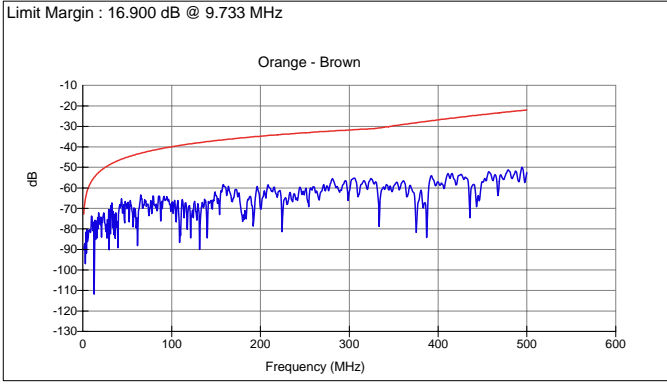
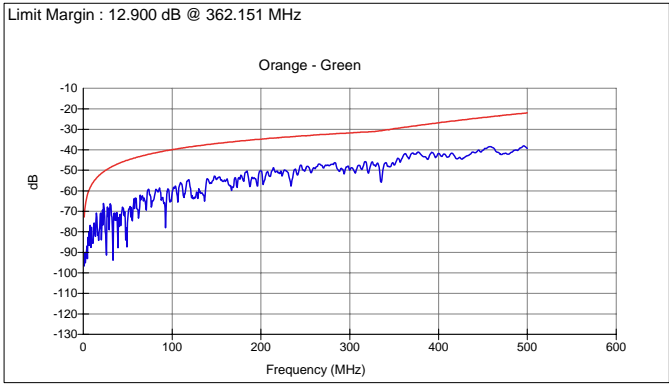
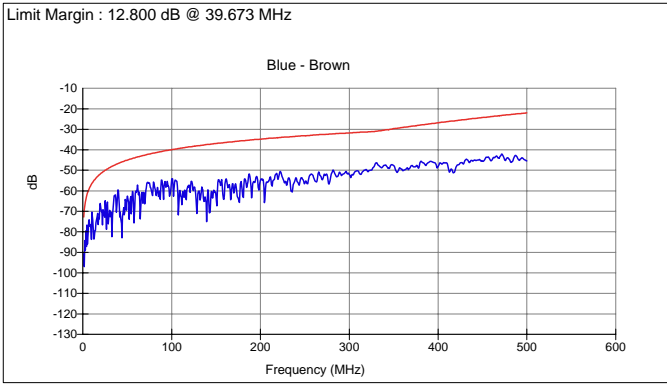
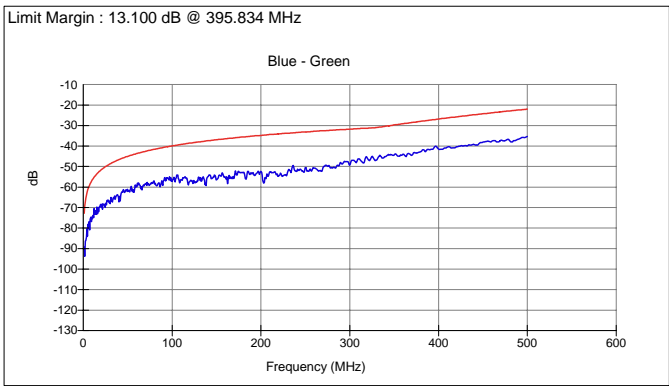
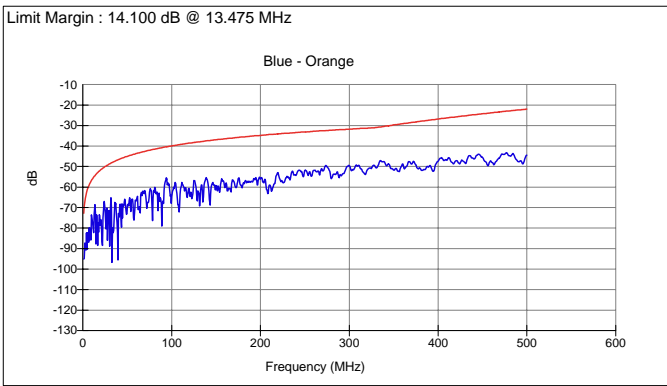
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Near End Cross Talk (Near End)

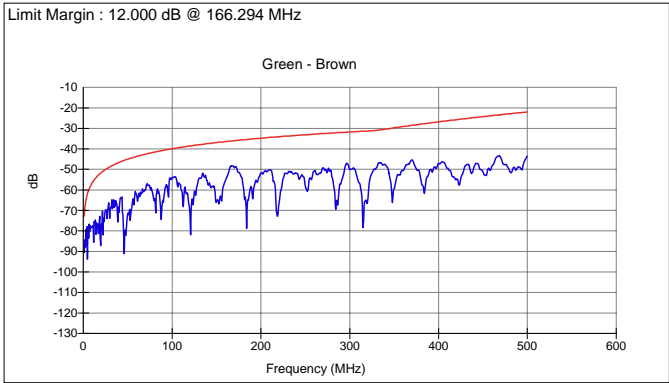
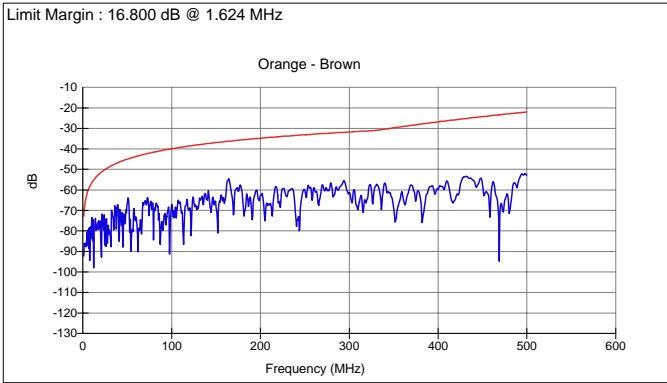
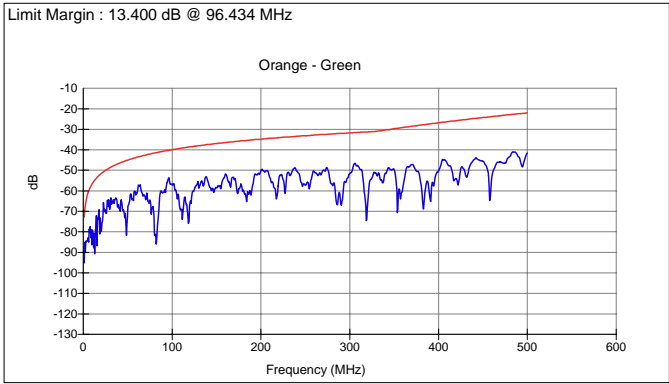
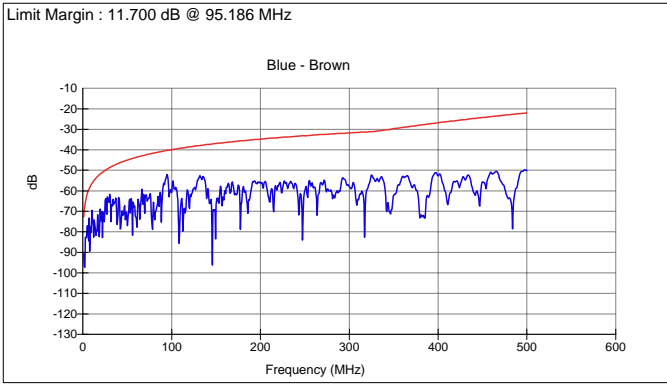
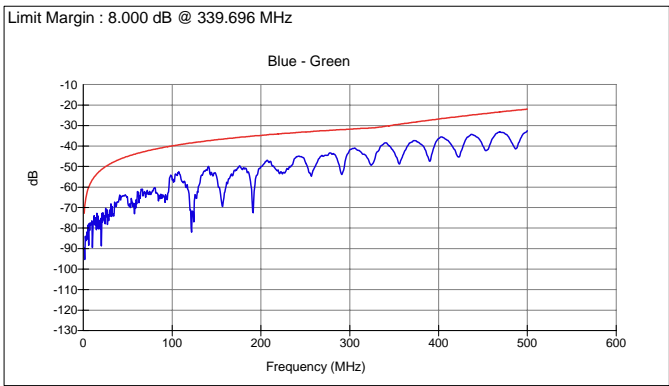
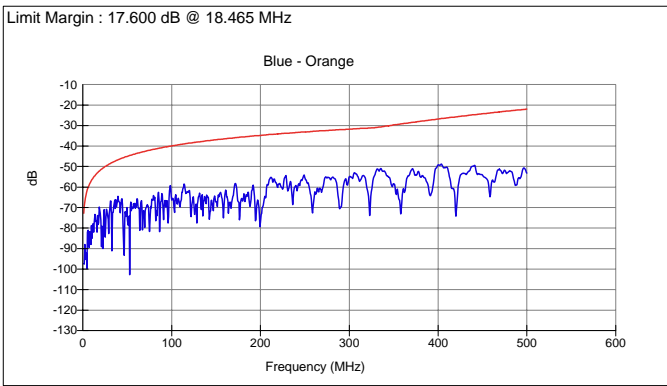
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Near End Cross Talk (Far End)

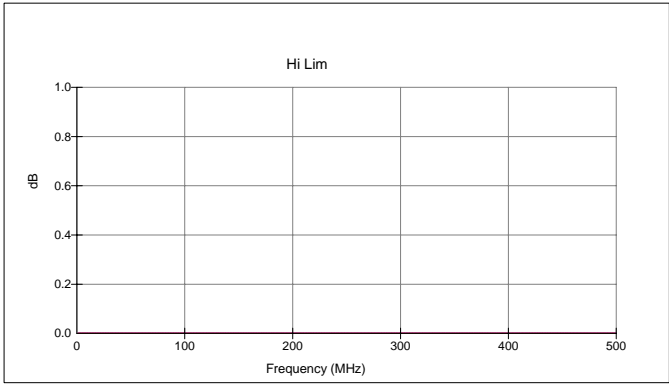
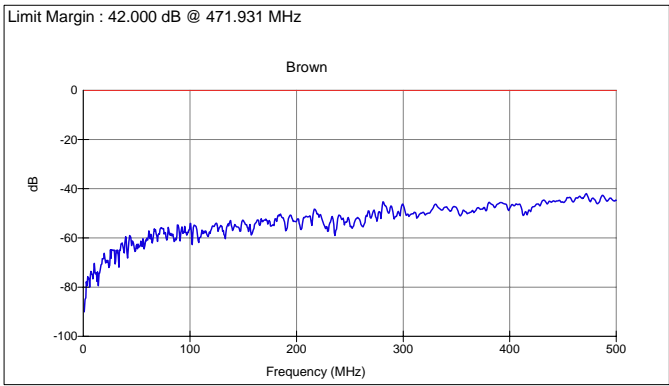
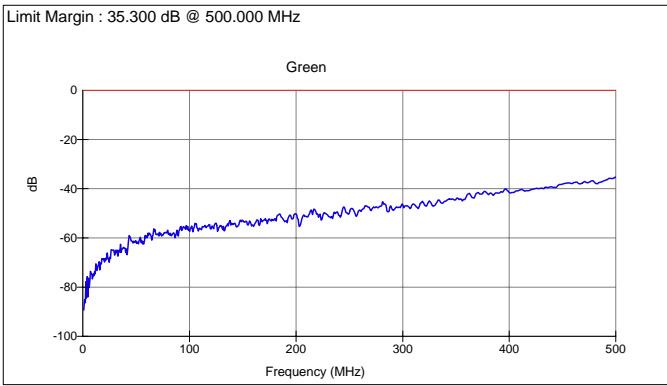
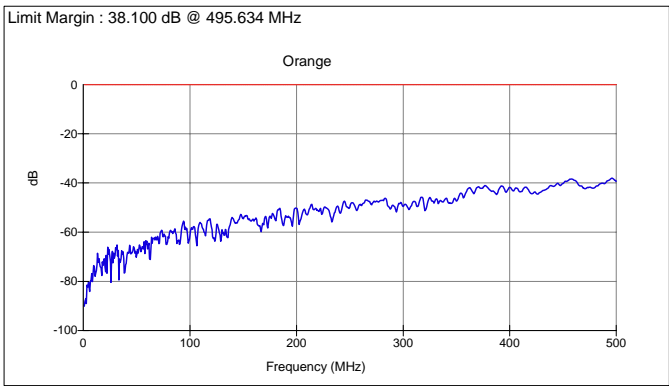
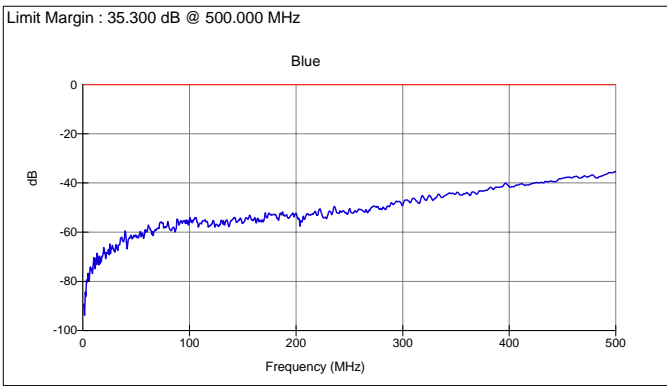
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Near End Cross Talk (Worse Case Pair Near End)

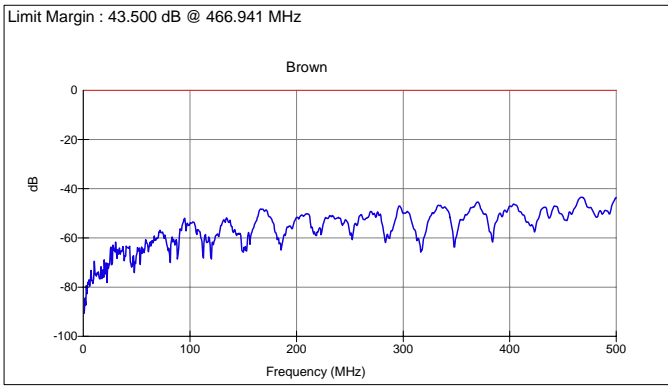
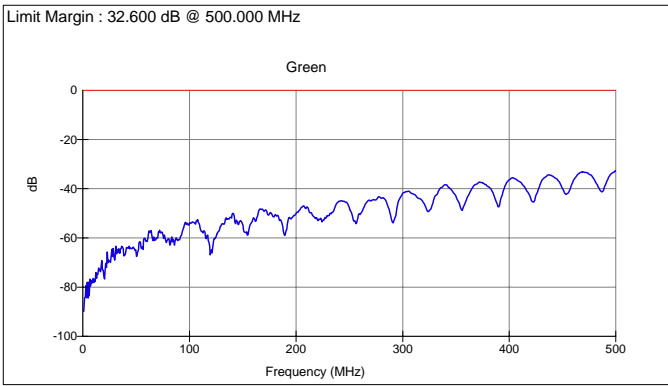
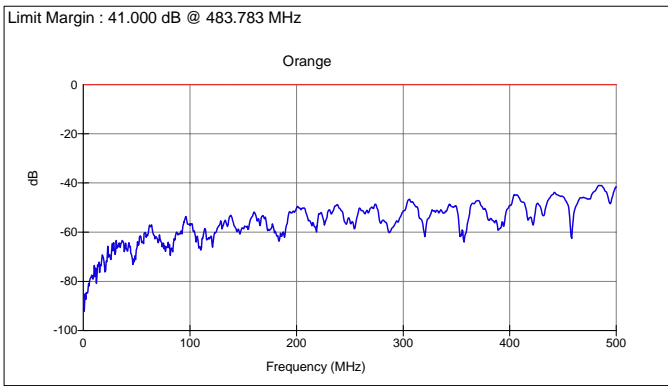
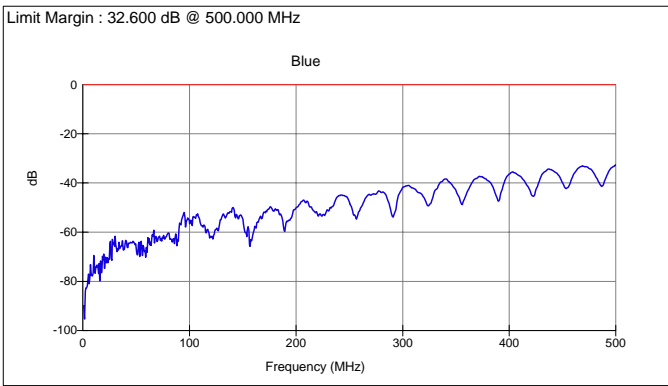
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Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Near End Cross Talk (Worse Case Pair Far End)

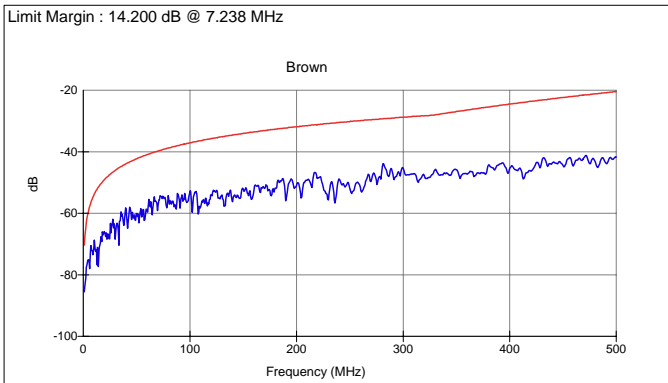
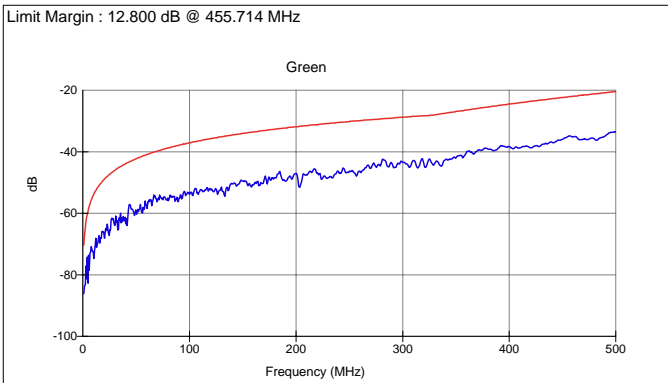
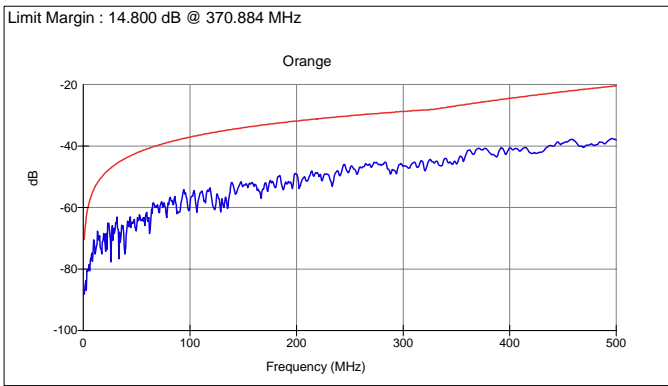
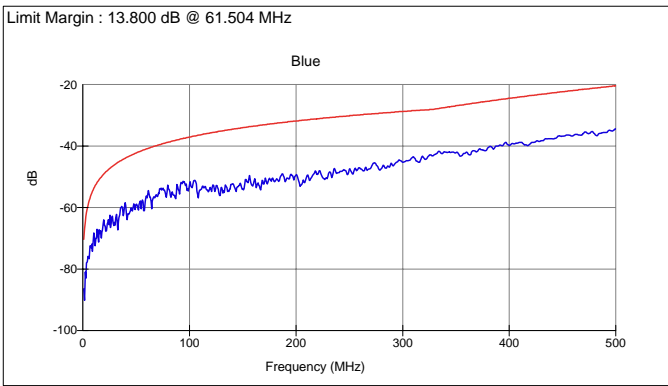
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Power Sum NEXT (Near End)

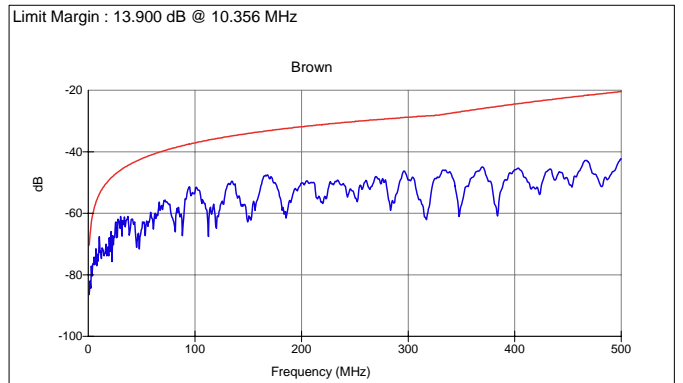
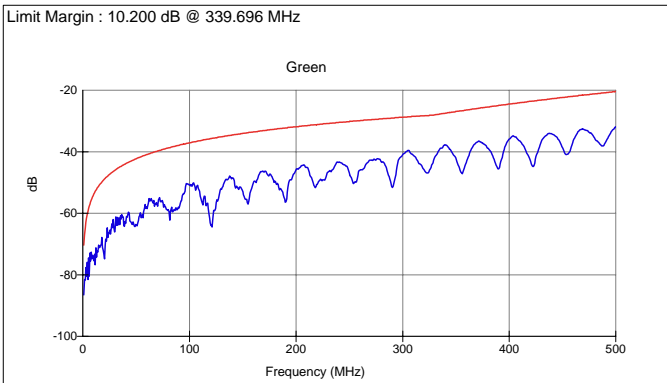
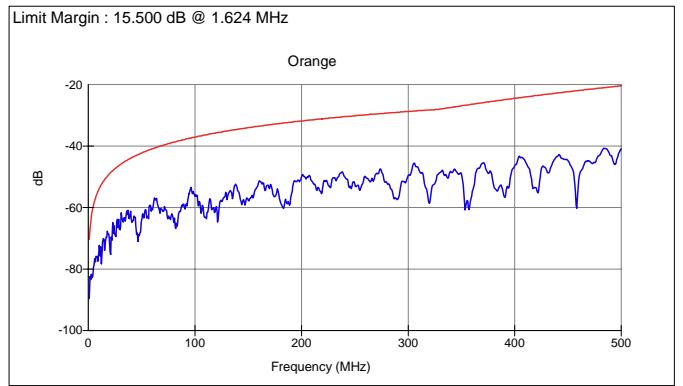
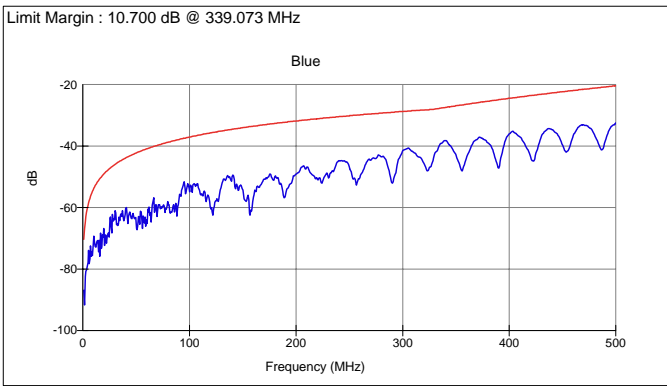
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Power Sum NEXT (Far End)

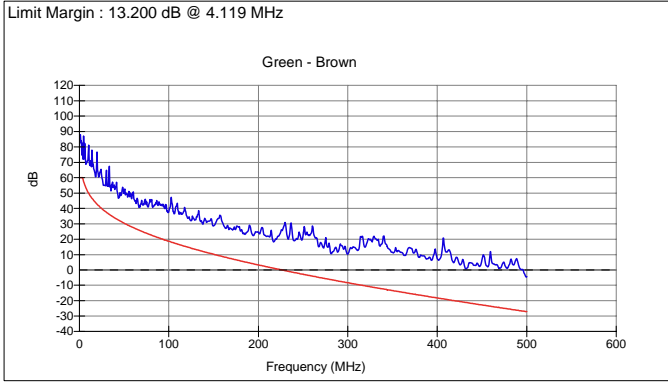
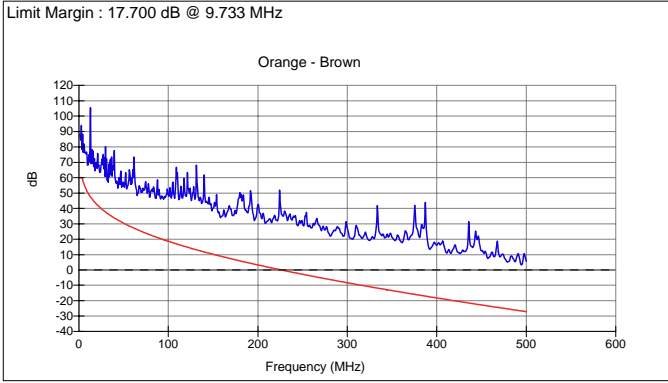
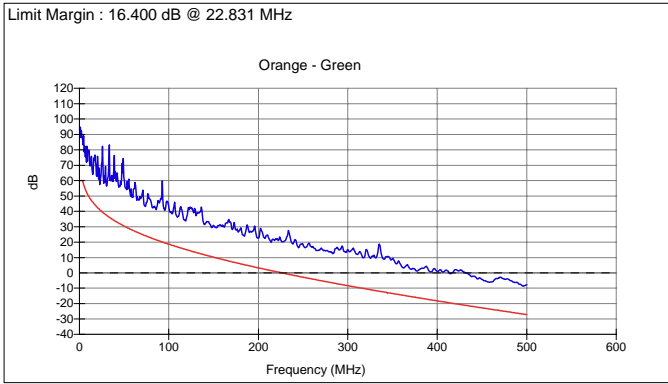
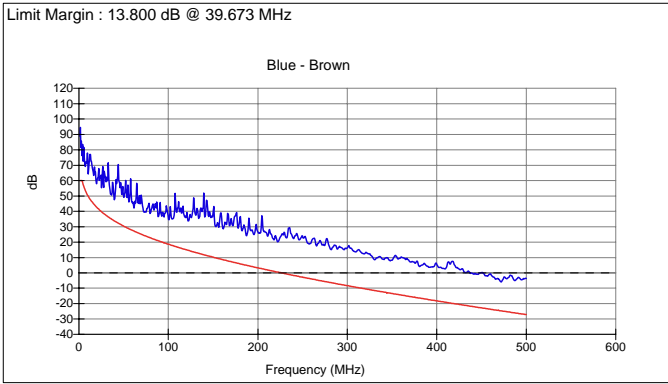
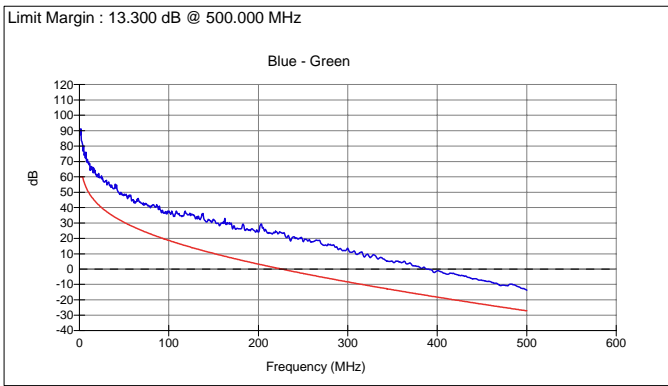
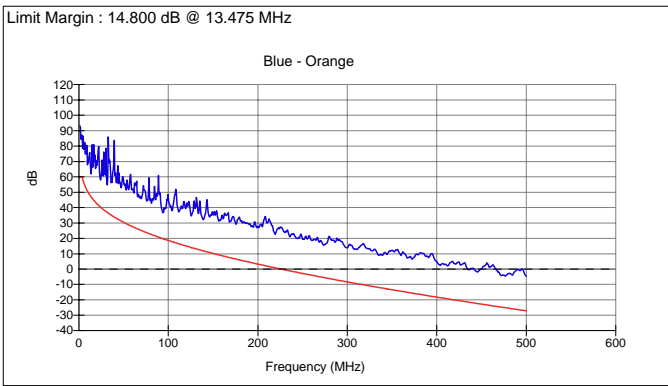
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Attenuation to Cross Talk Ratio (Near End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

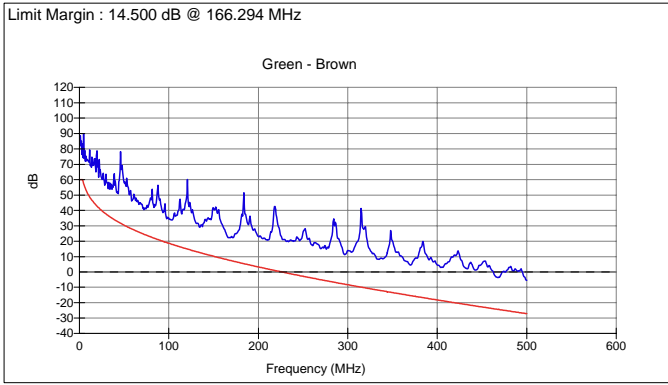
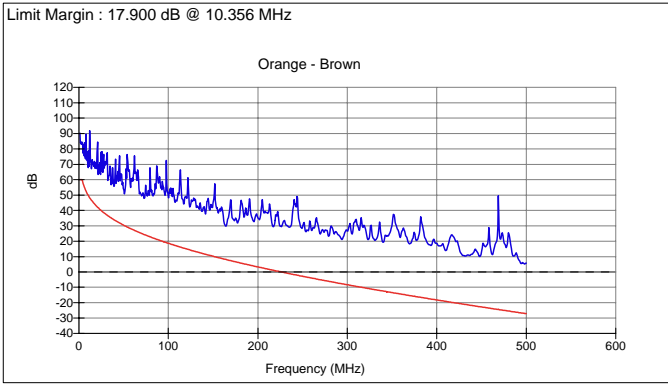
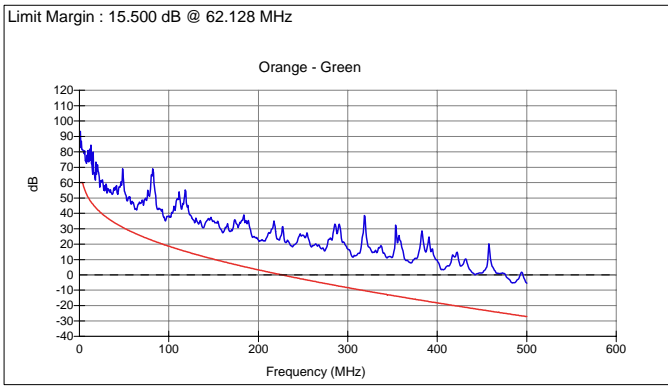
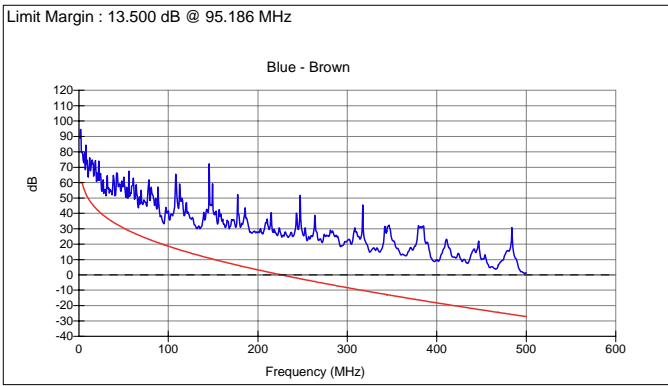
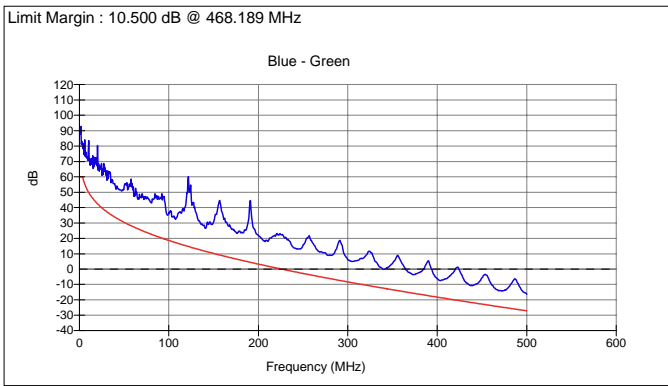
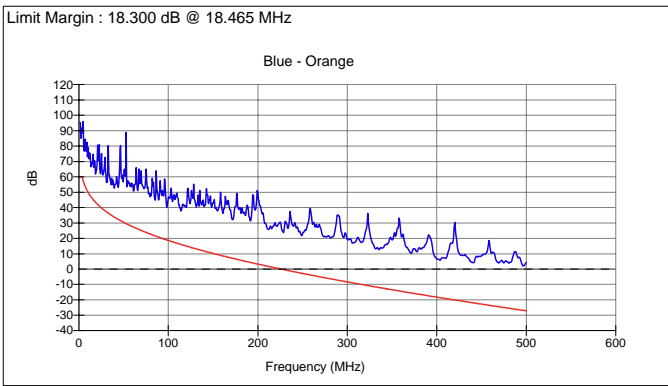




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Attenuation to Cross Talk Ratio (Far End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

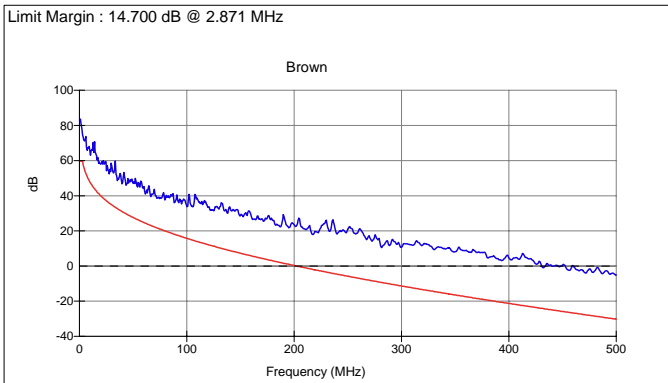
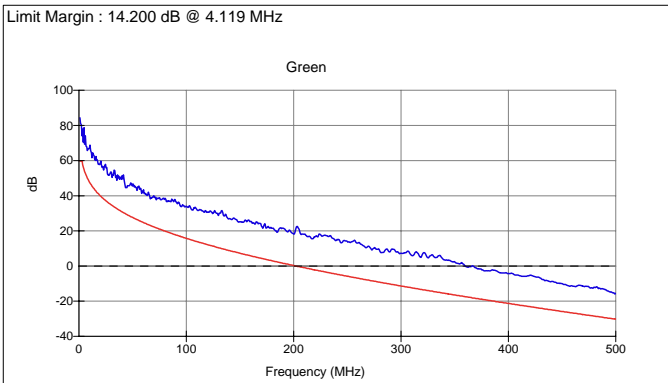
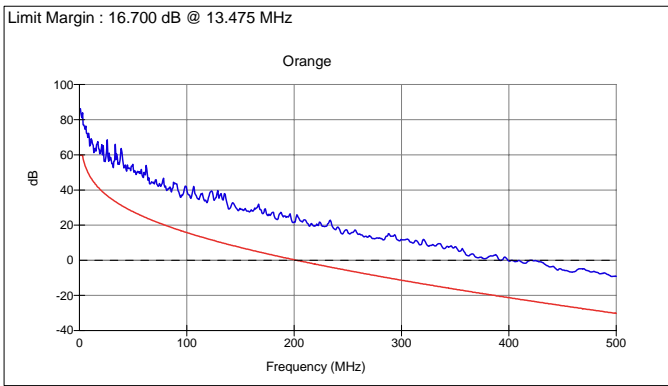
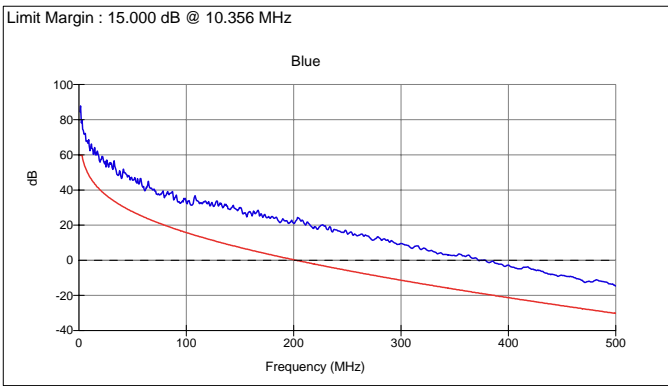




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Power Sum ACR (Near End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

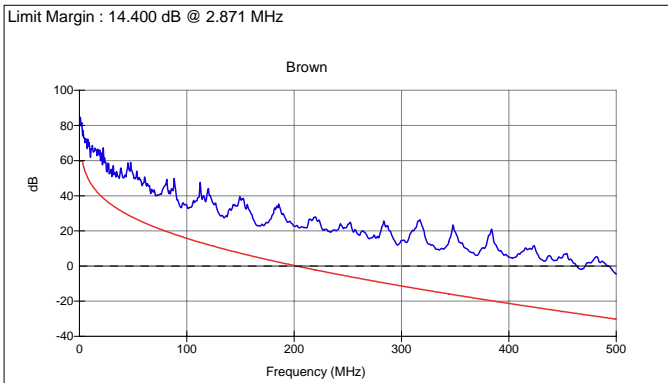
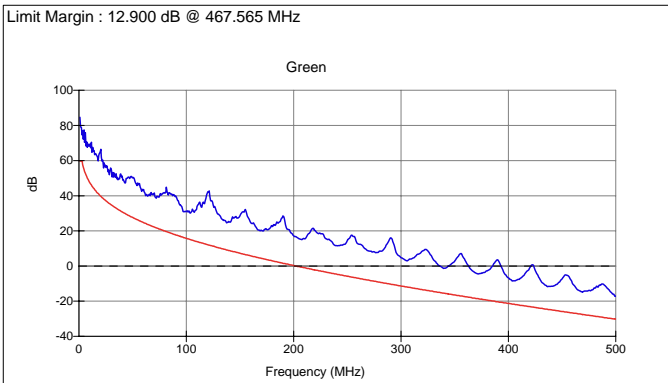
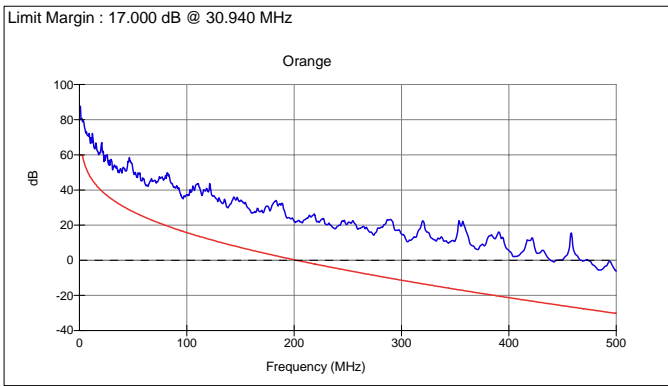
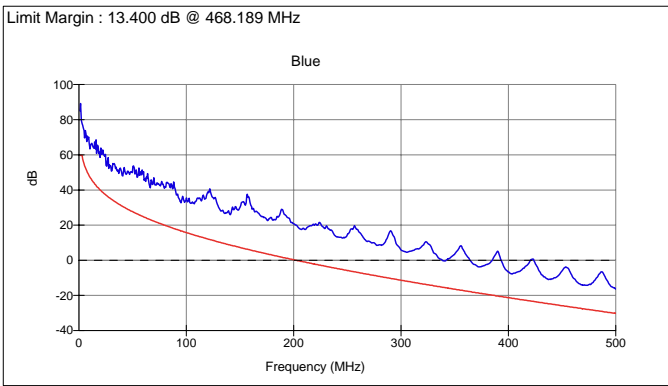




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Power Sum ACR (Far End)

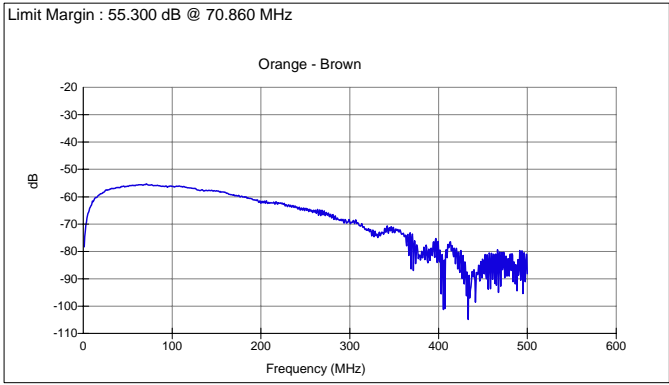
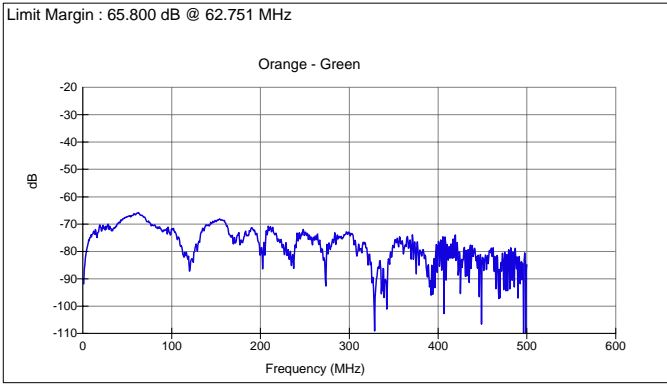
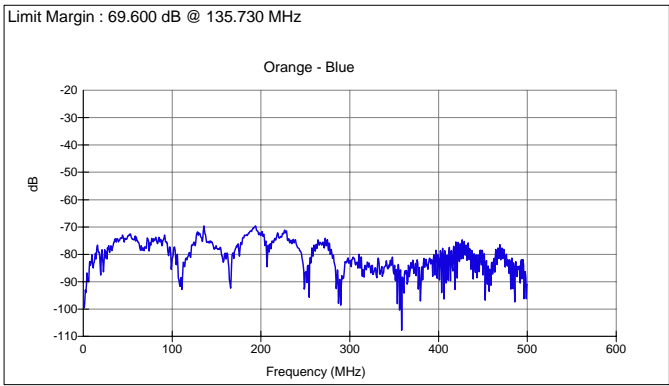
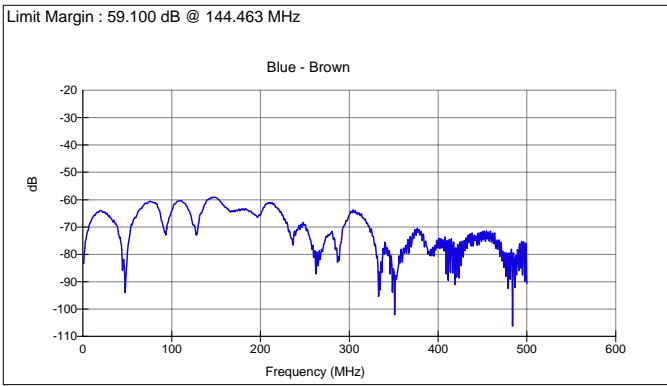
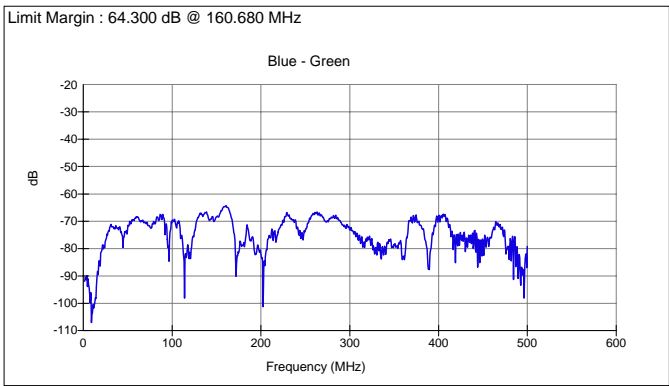
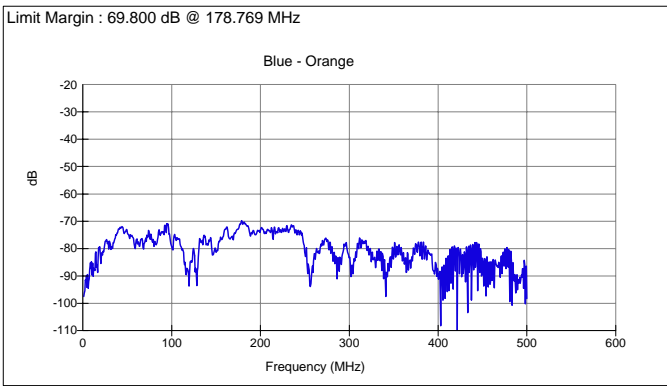
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Far End Cross Talk (Near End)

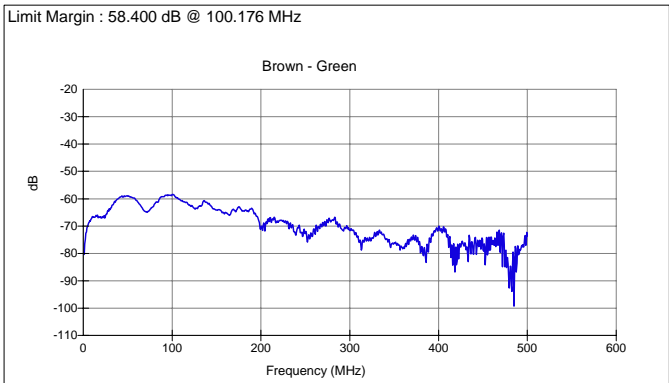
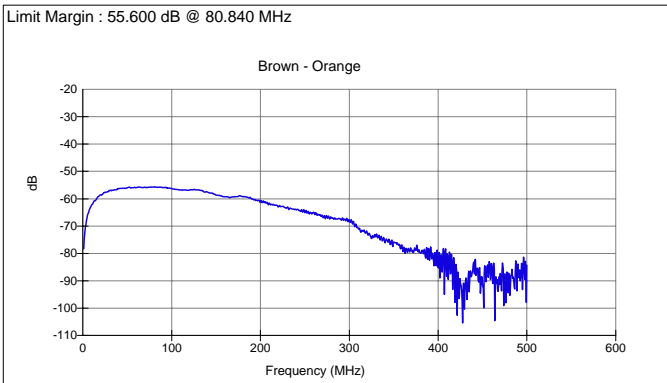
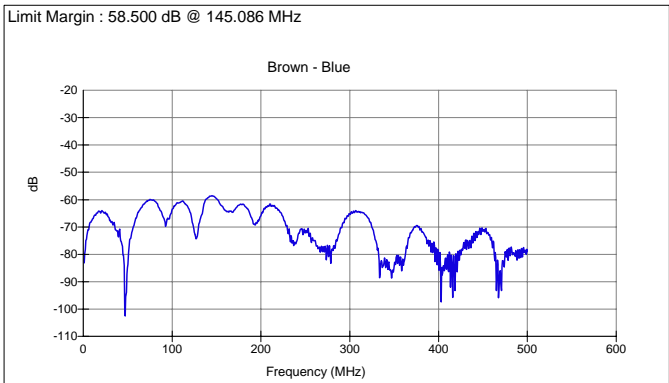
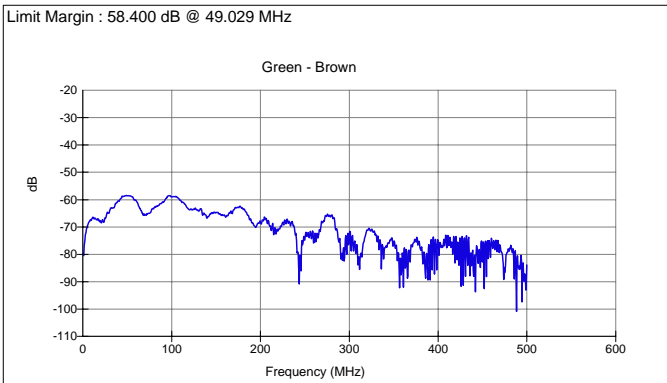
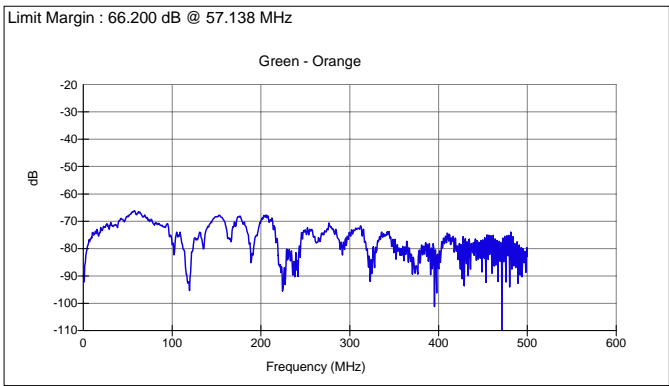
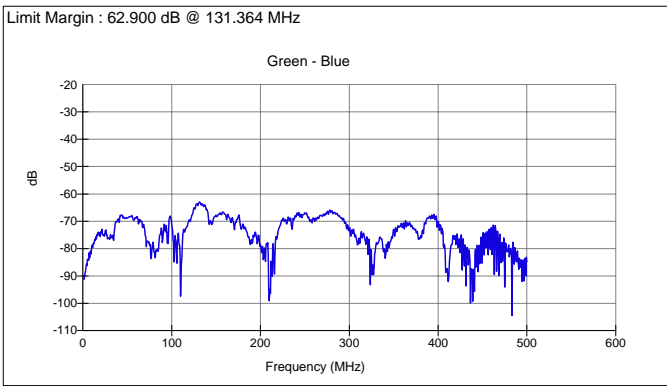
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Far End Cross Talk (Near End)

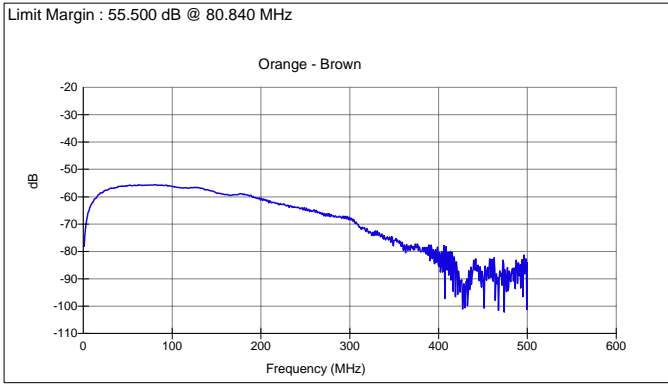
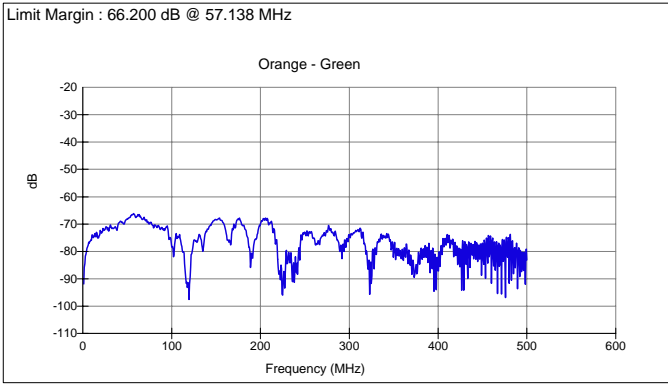
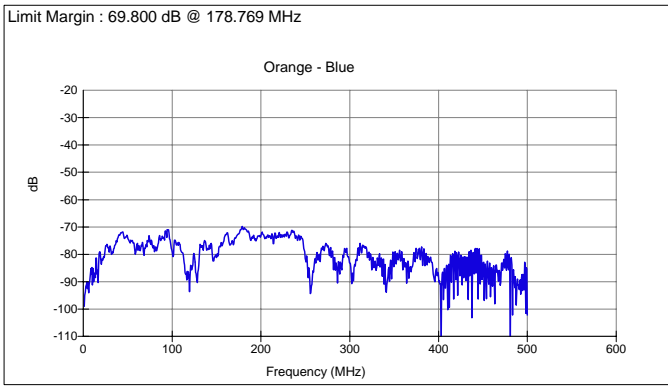
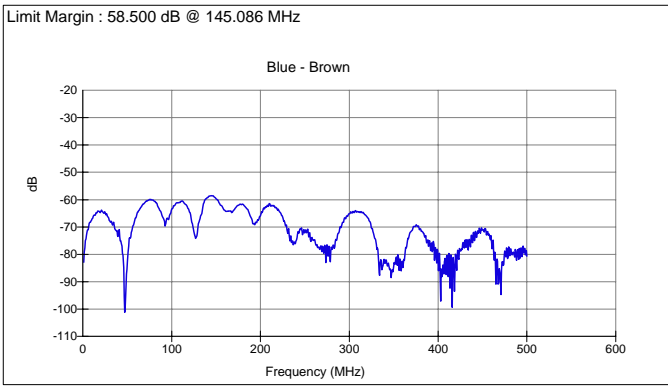
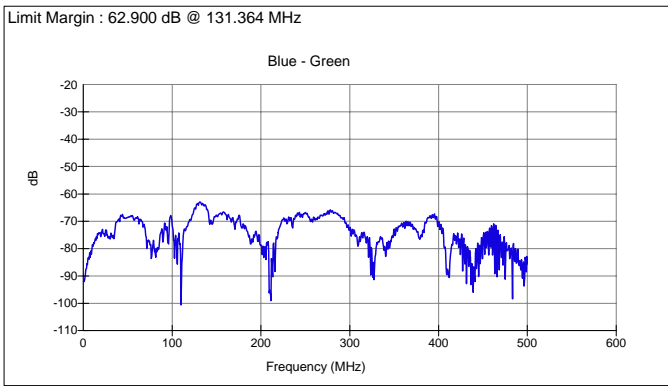
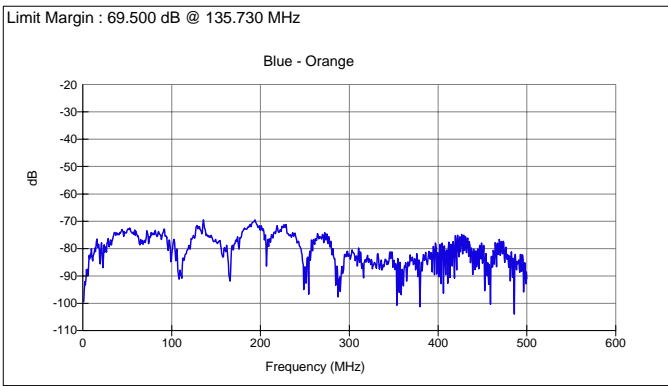
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Far End Cross Talk (Far End)

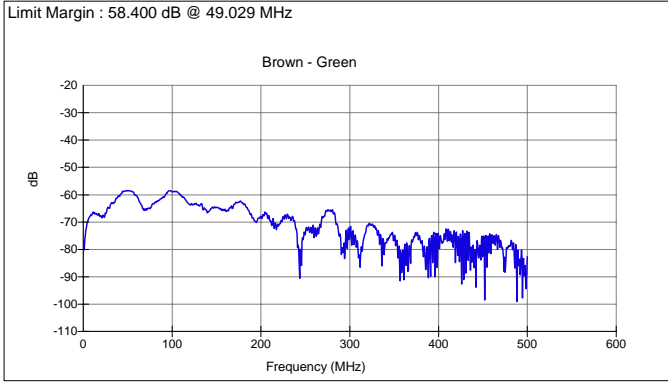
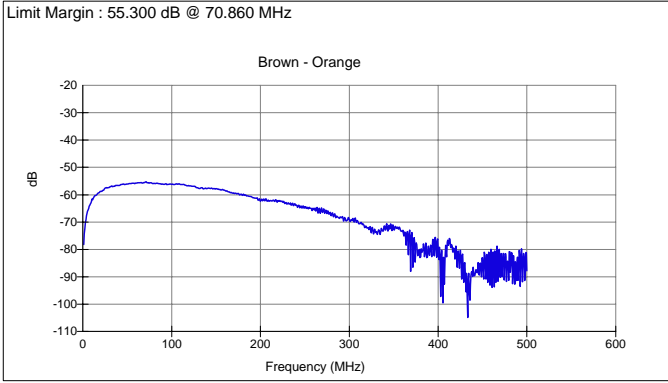
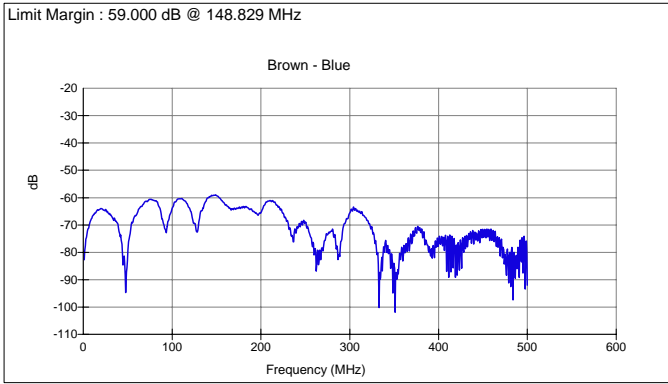
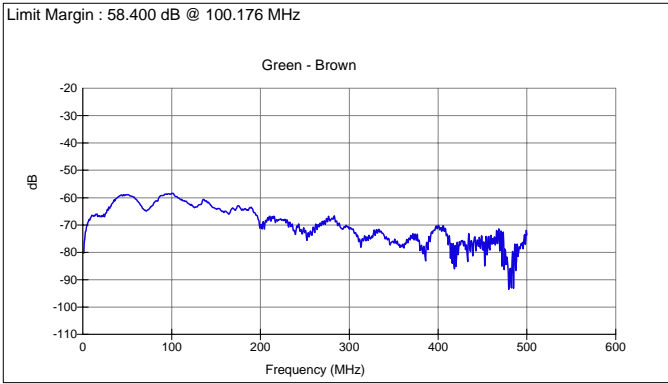
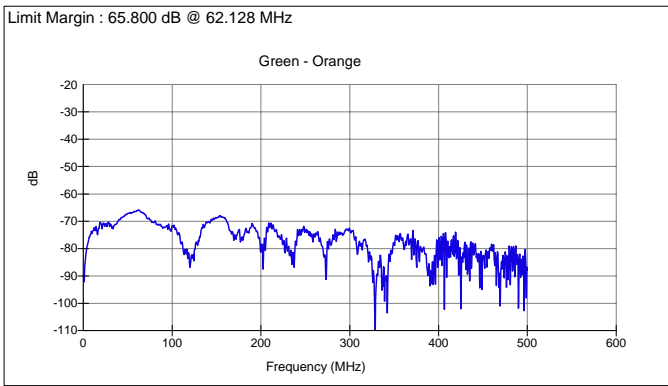
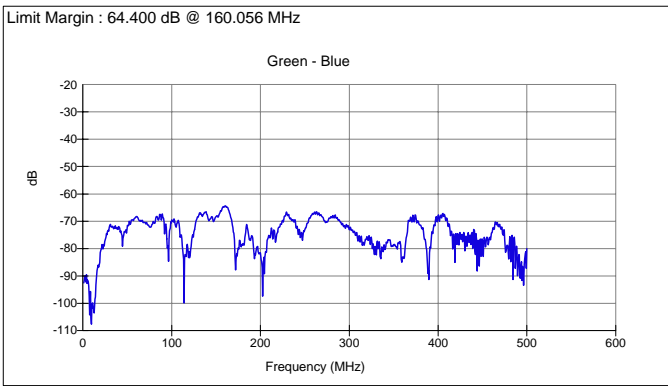
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Far End Cross Talk (Far End)

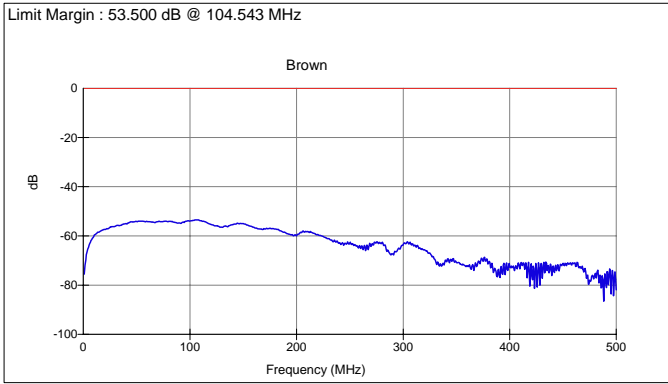
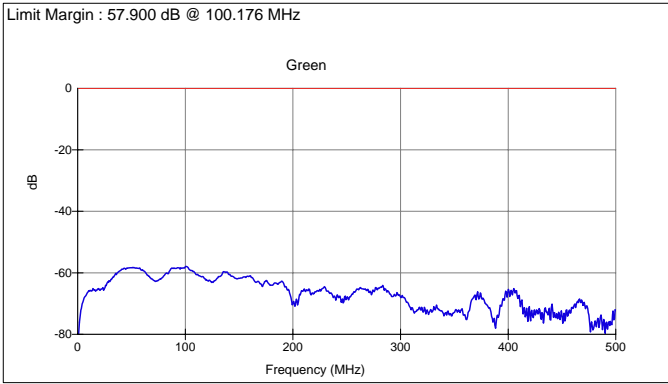
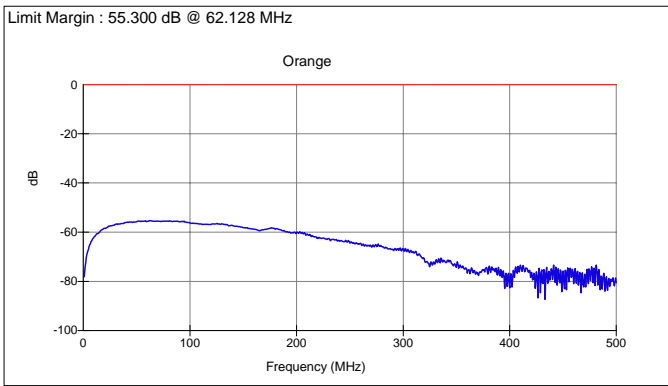
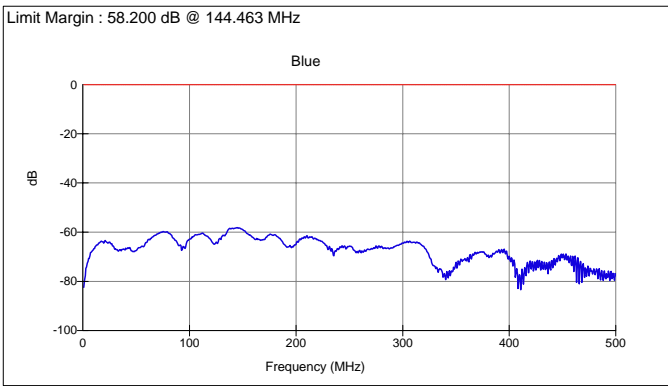
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Power Sum FEXT (Near End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

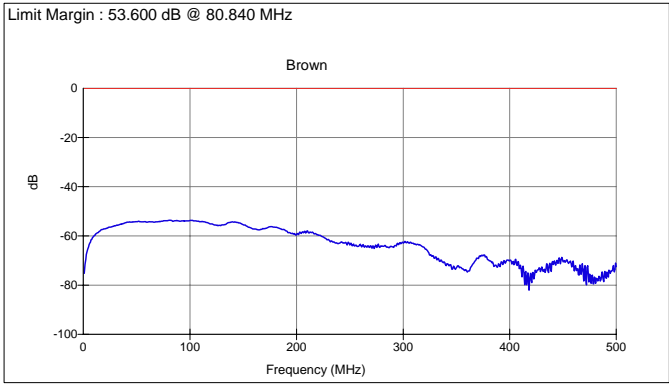
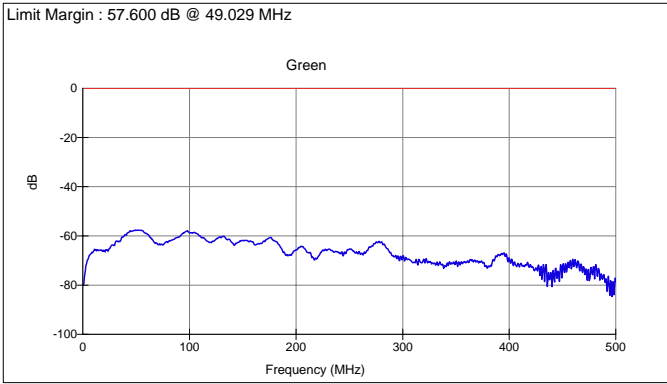
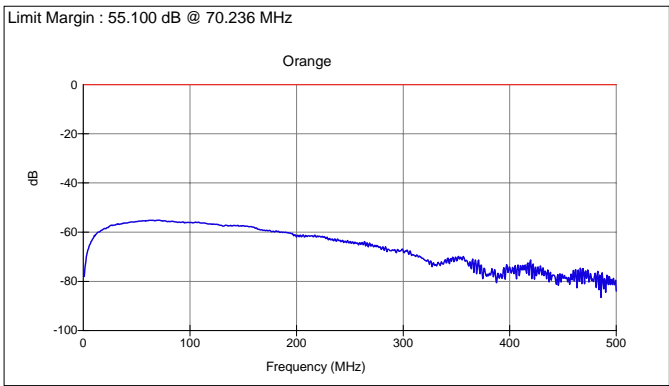
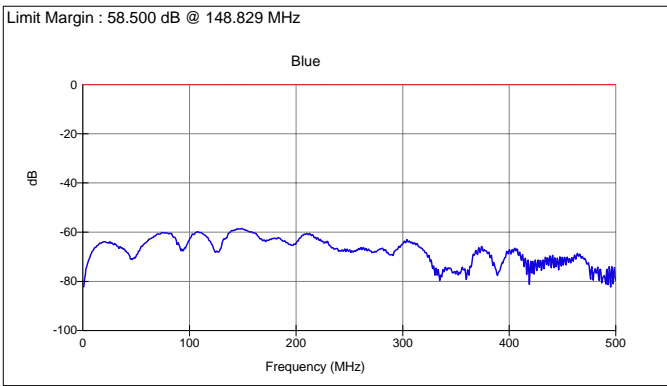




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Power Sum FEXT (Far End)

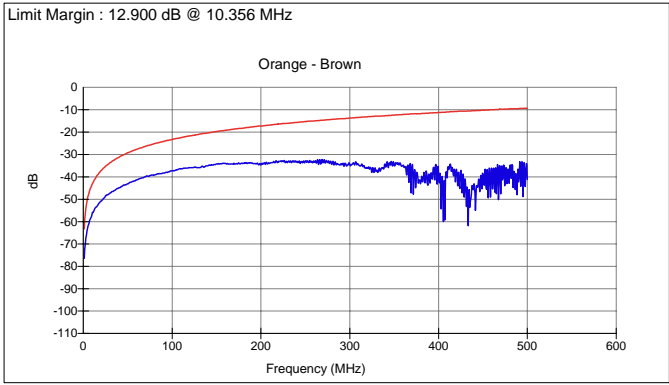
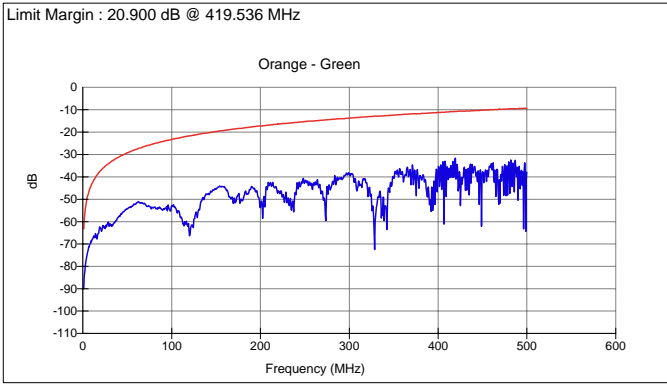
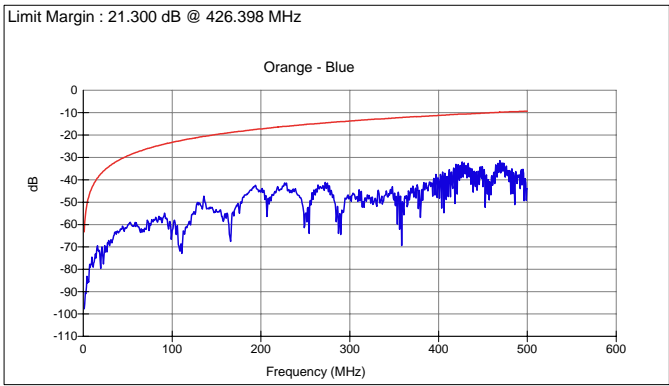
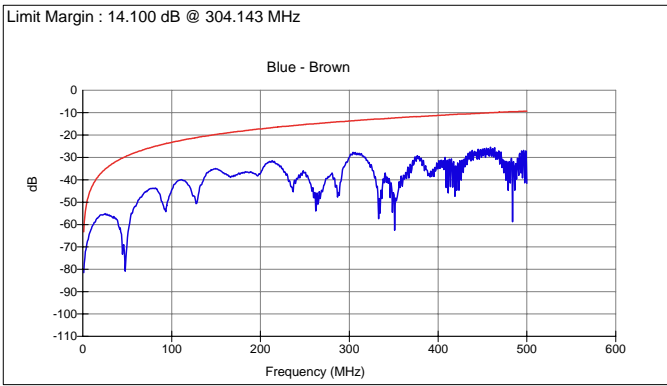
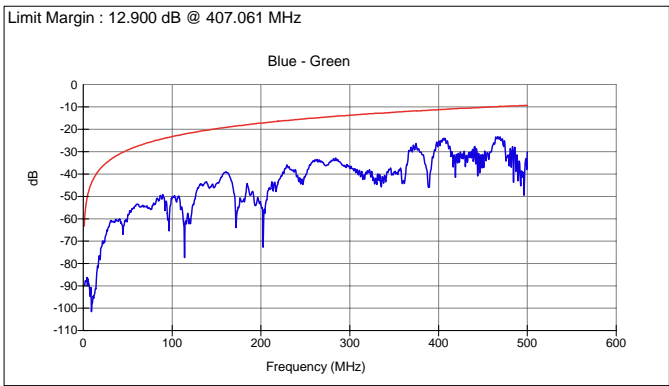
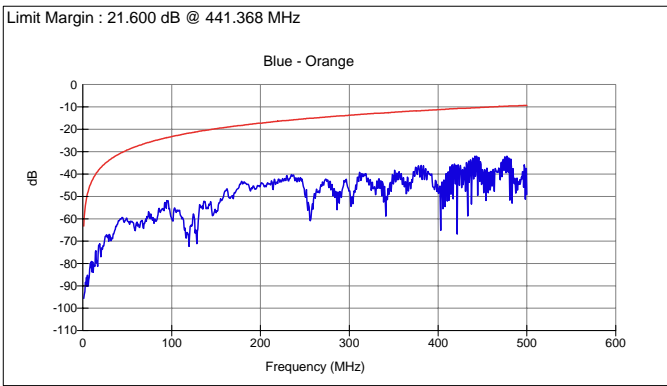
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Equal Level Far End Cross Talk (Near End)

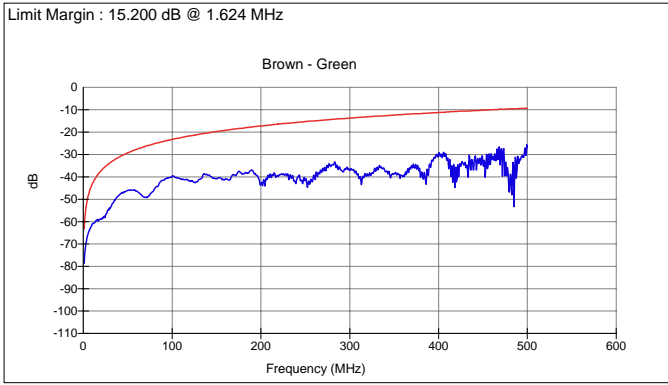
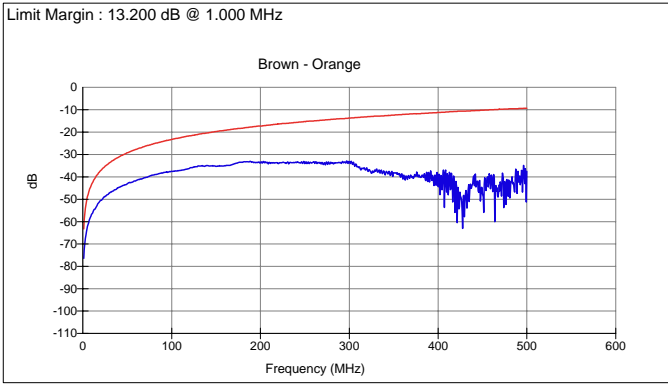
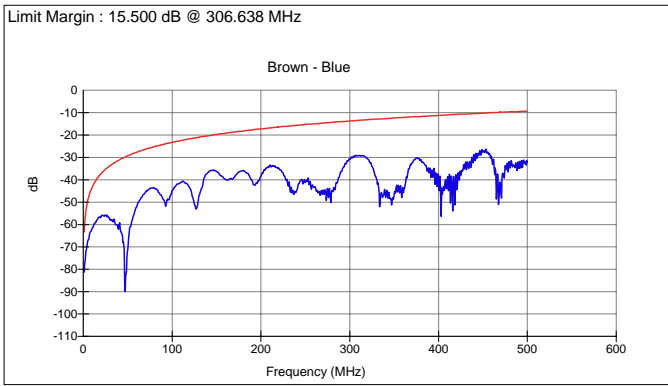
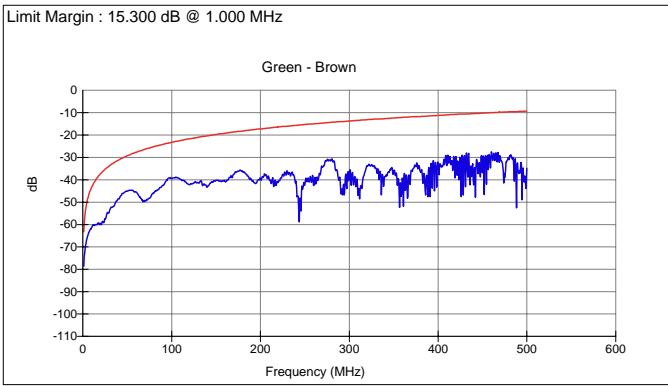
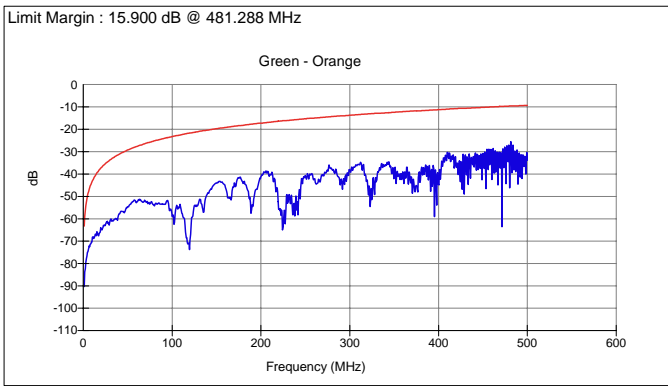
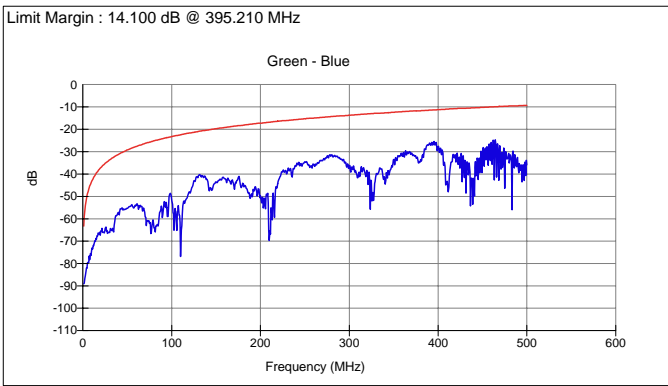
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Equal Level Far End Cross Talk (Near End)

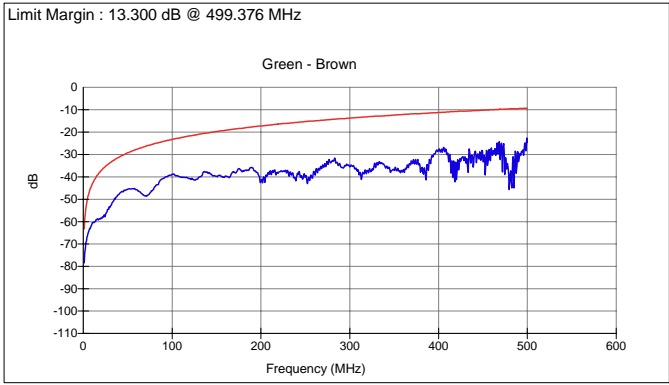
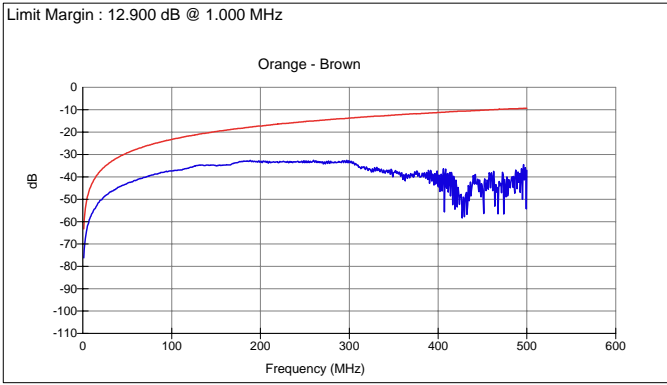
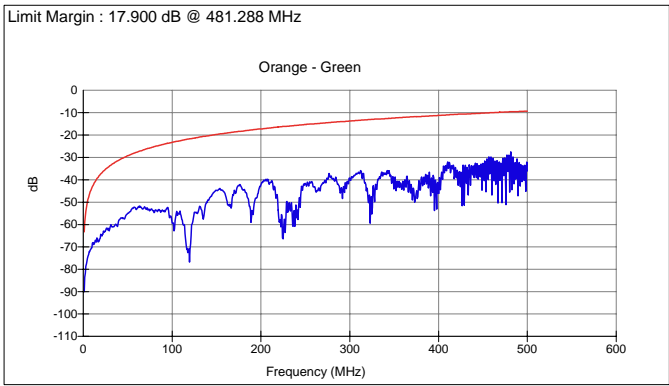
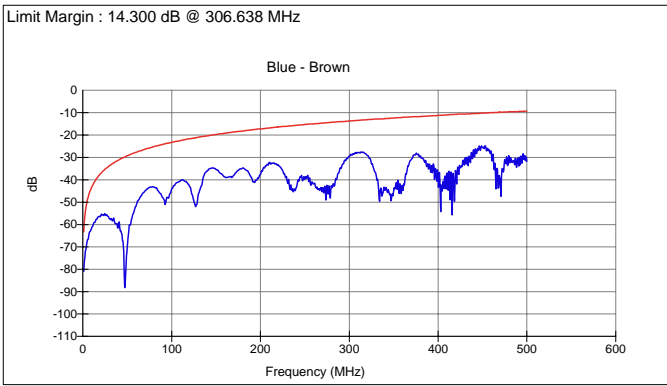
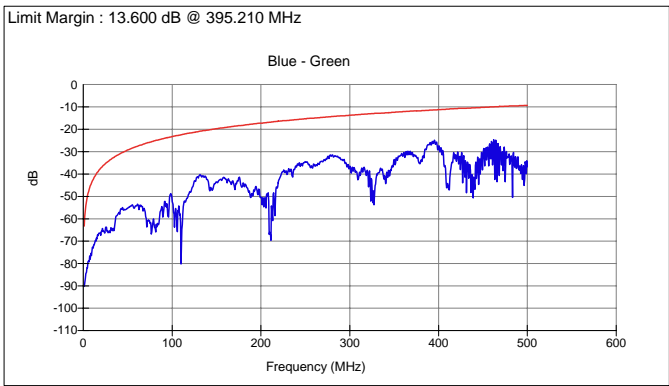
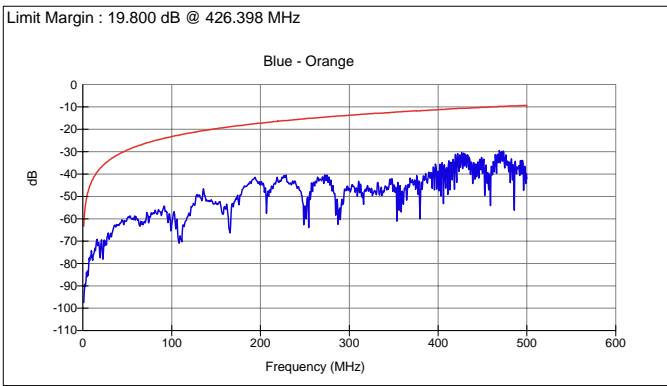
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Equal Level Far End Cross Talk (Far End)

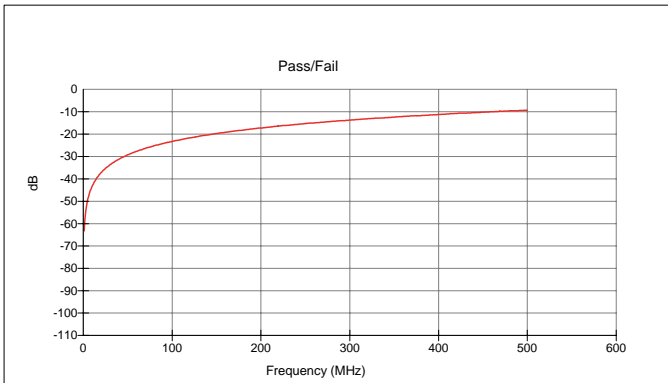
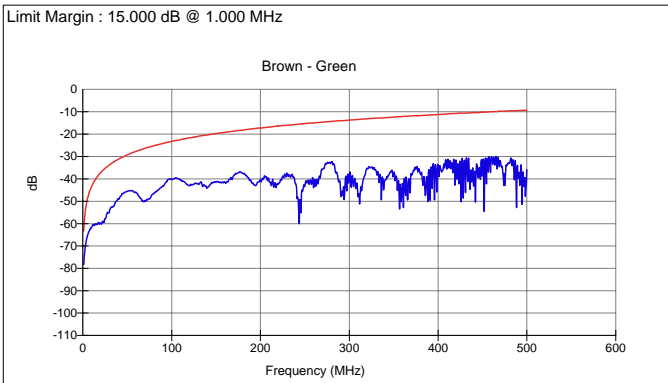
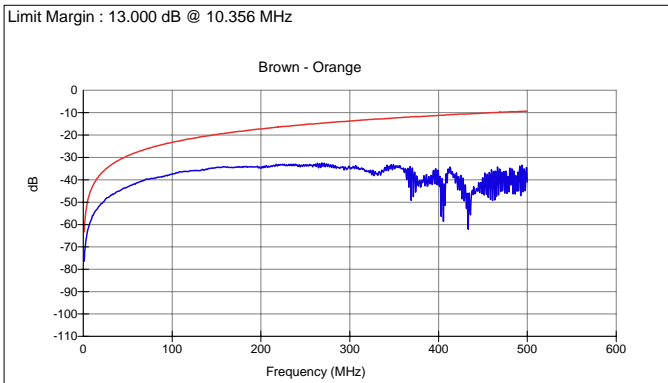
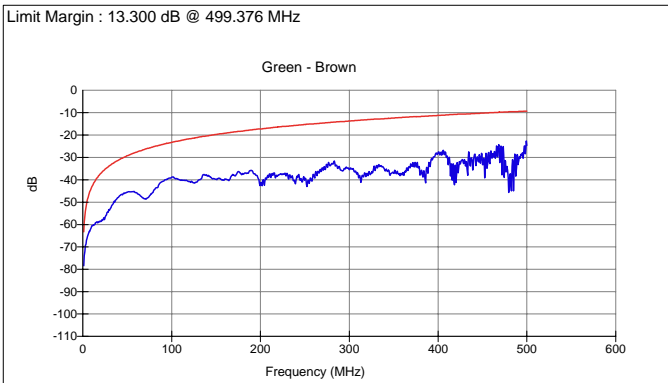
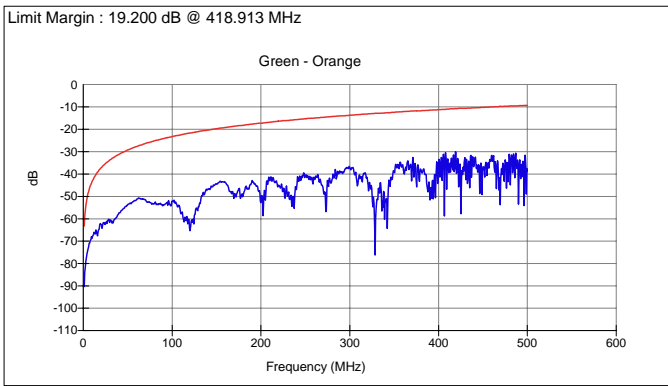
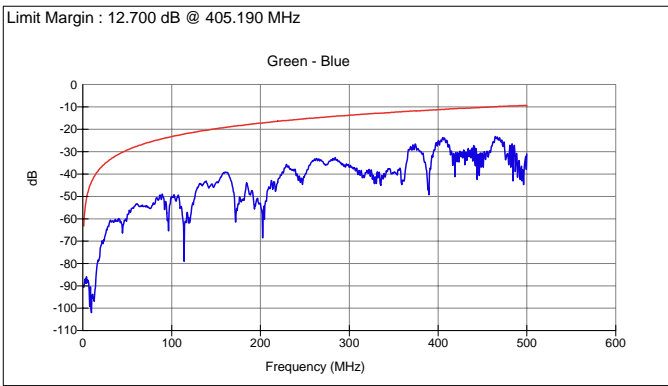
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Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Equal Level Far End Cross Talk (Far End)

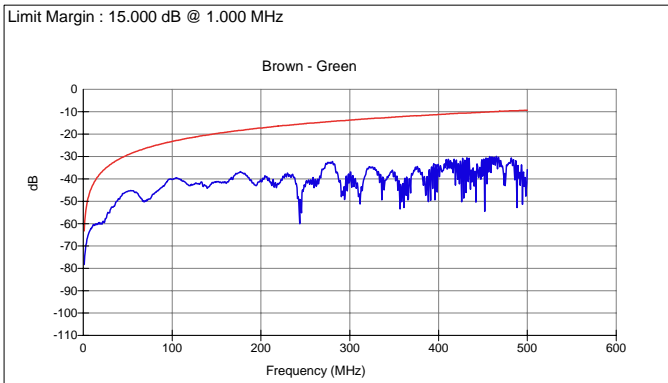
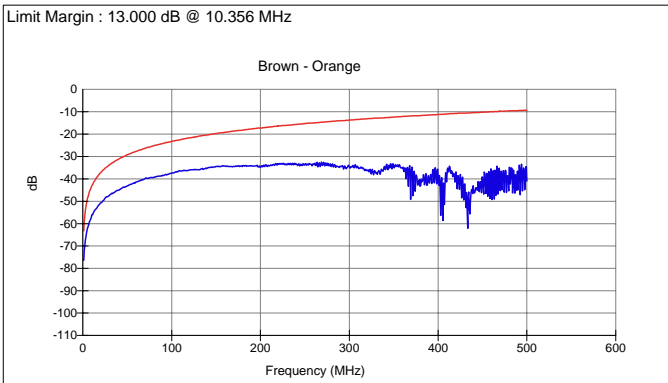
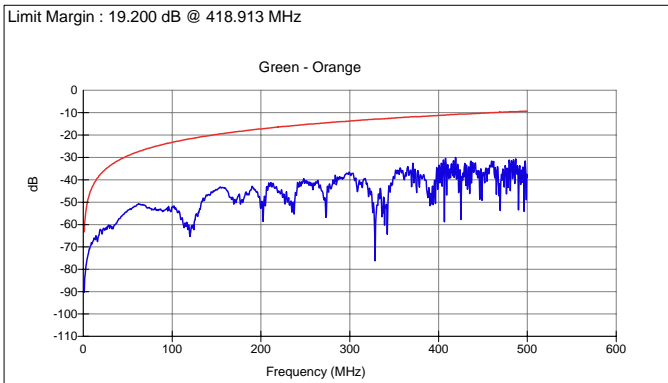
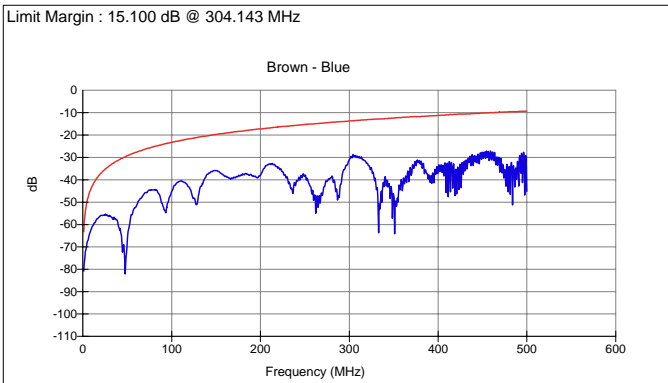
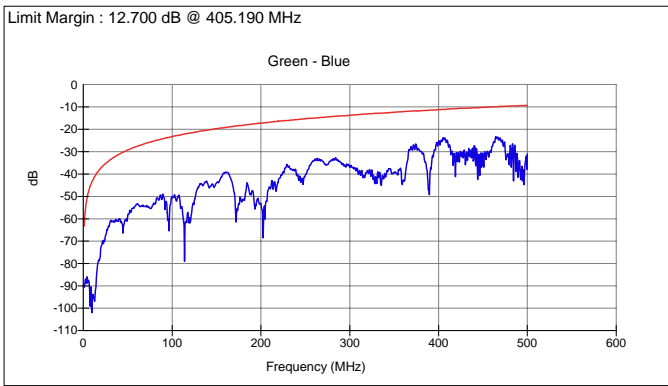
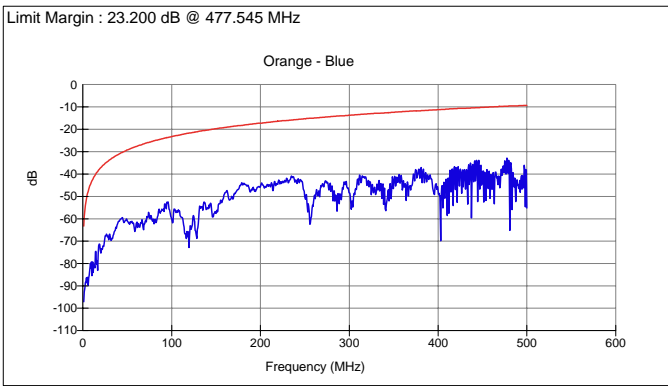
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Equal Level Far End Cross Talk (Far End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

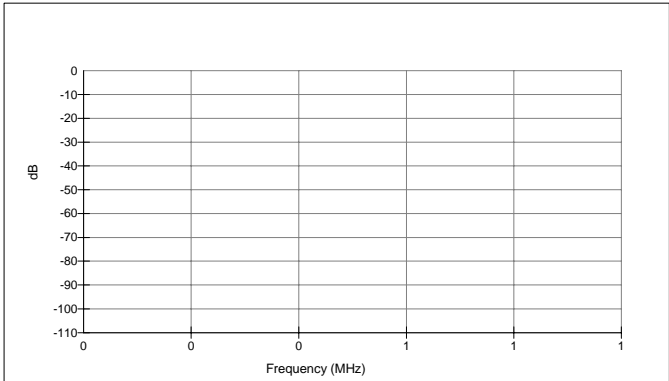
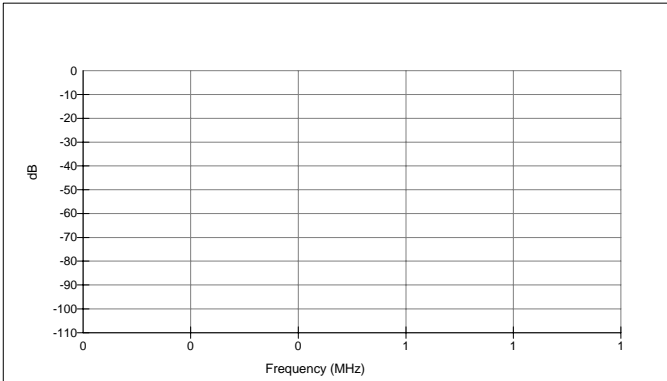
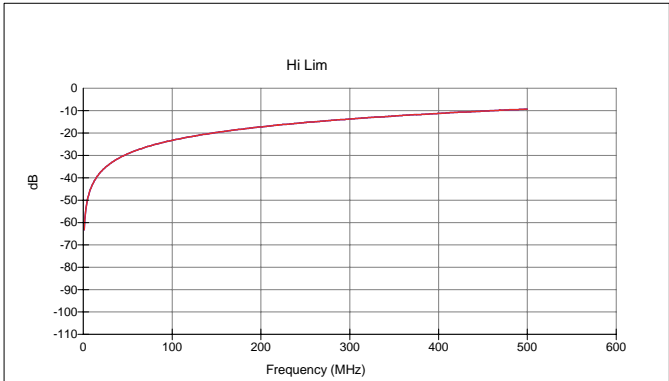
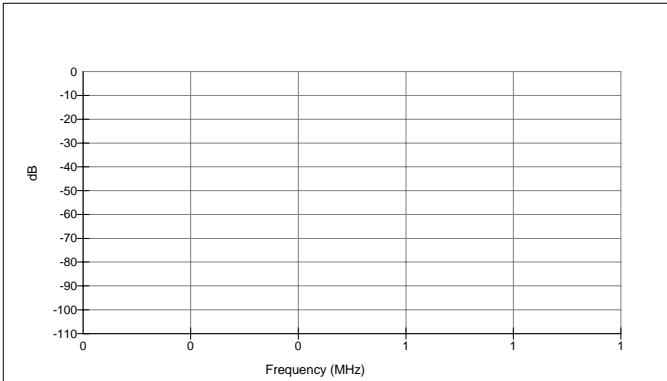
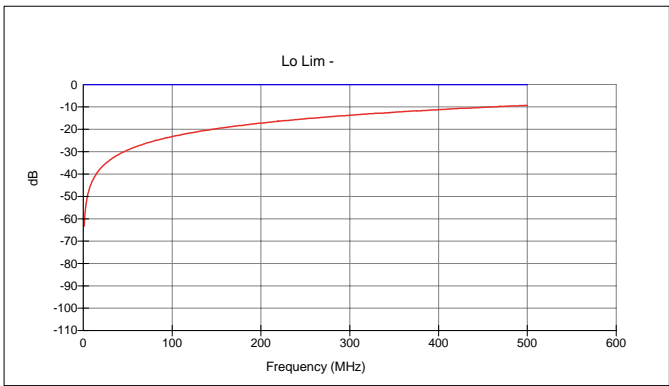
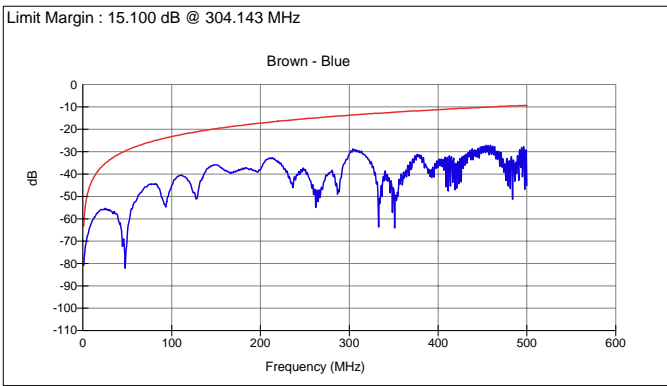




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Equal Level Far End Cross Talk (Far End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

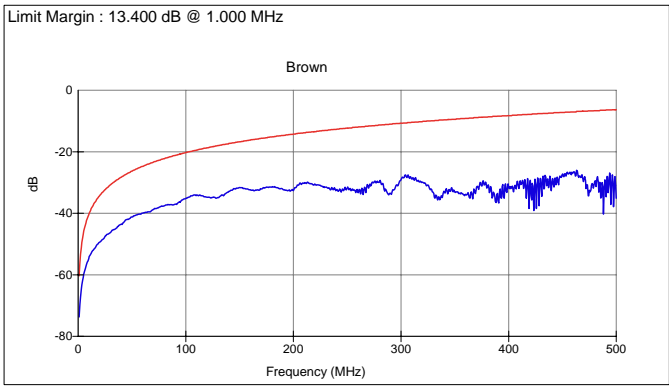
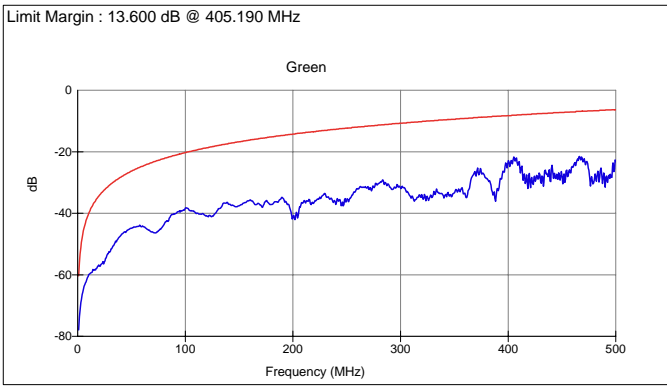
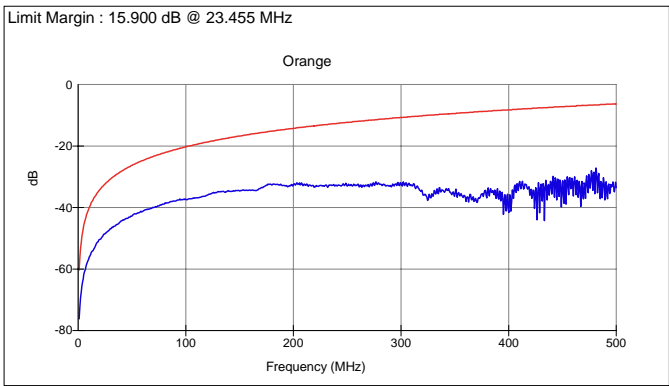
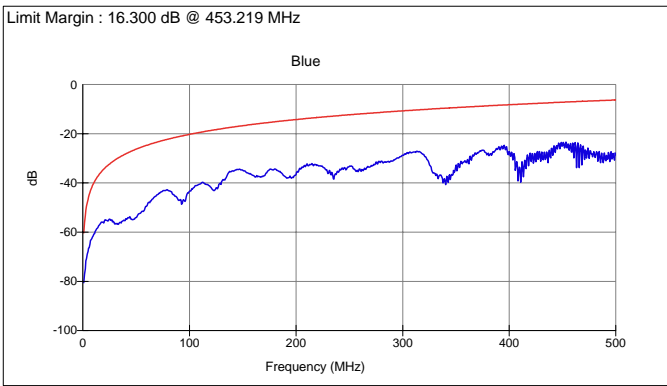




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Power Sum ELFEXT (Near End)

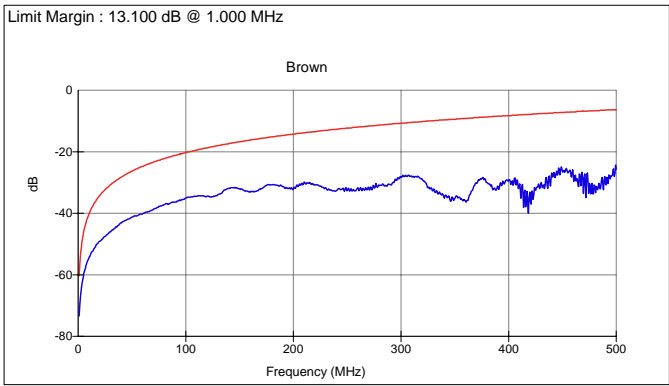
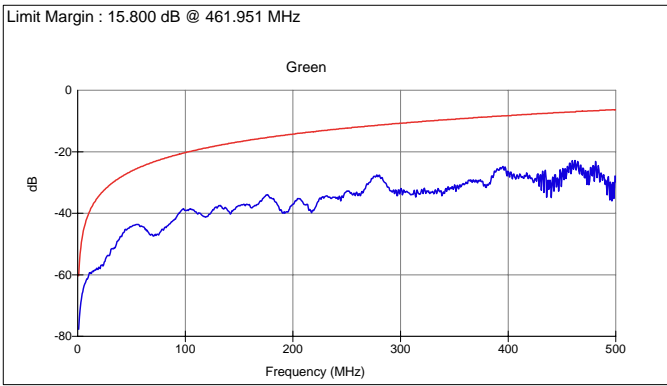
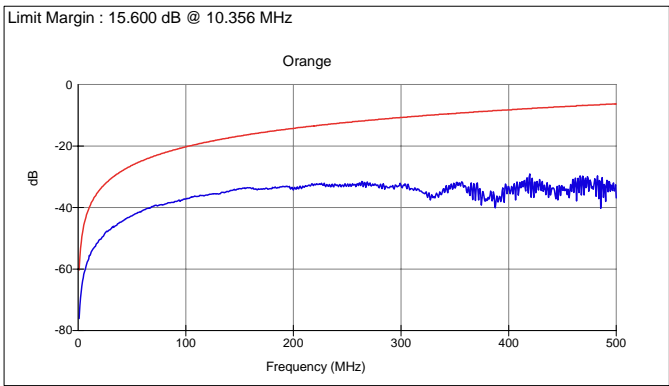
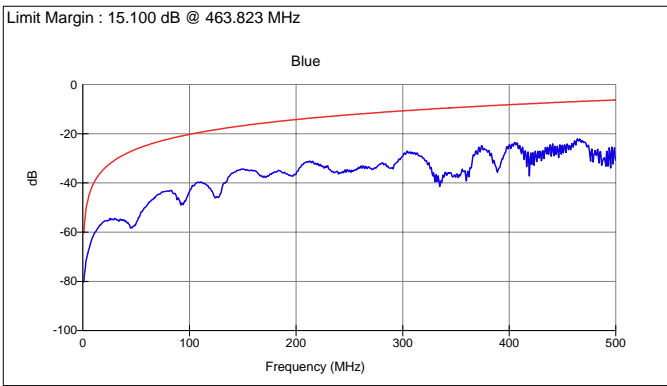
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Power Sum ELFEXT (Far End)

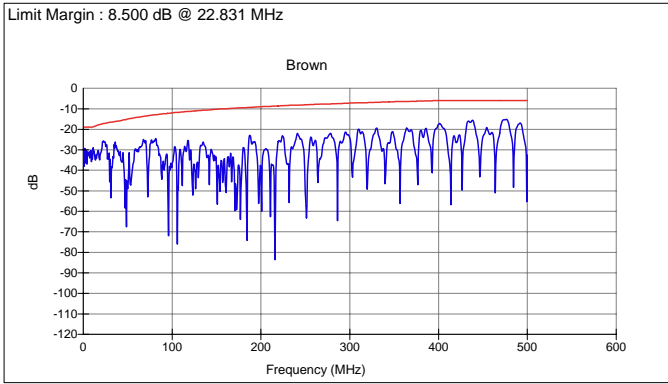
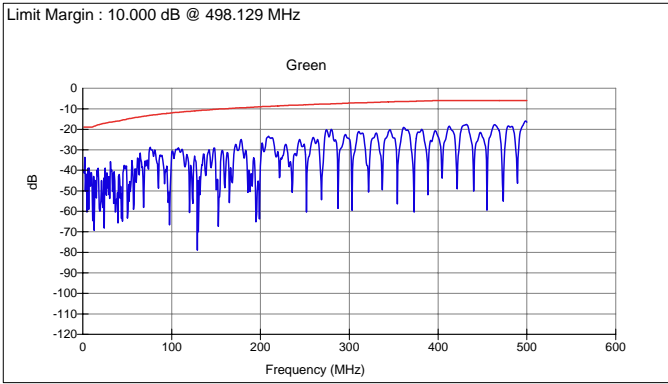
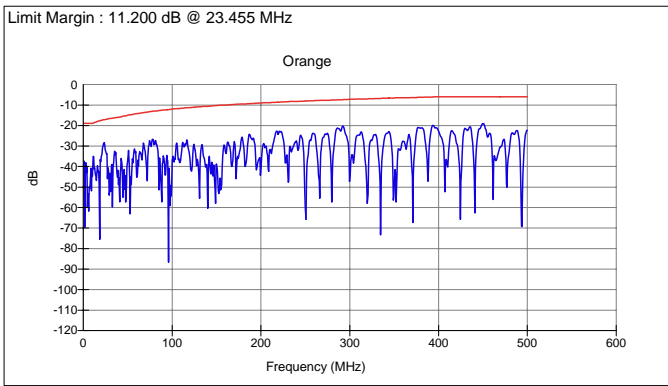
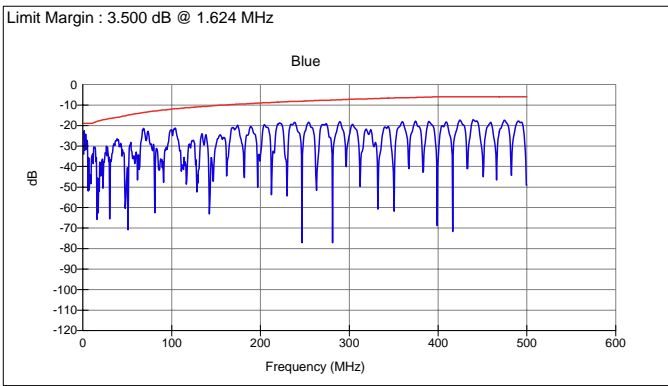
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Structural Return Loss (Terminated Near End)

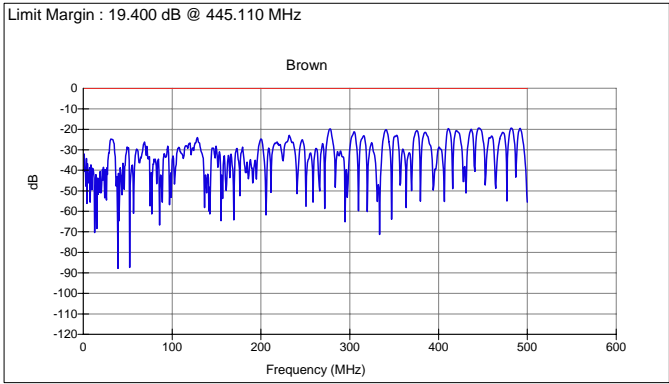
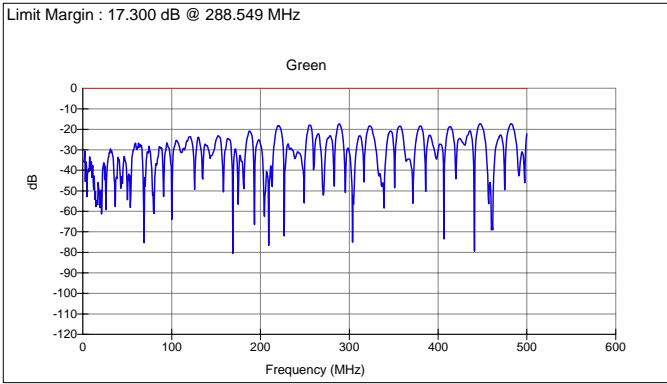
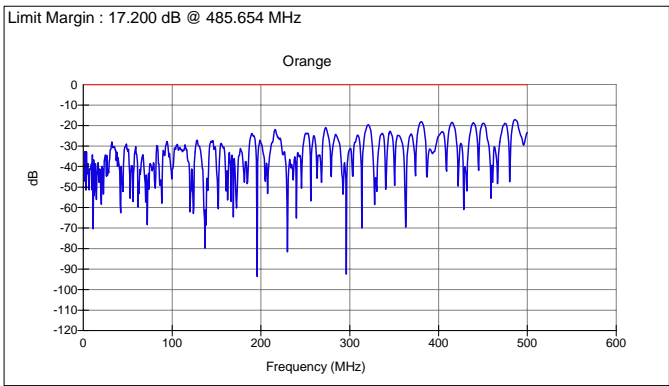
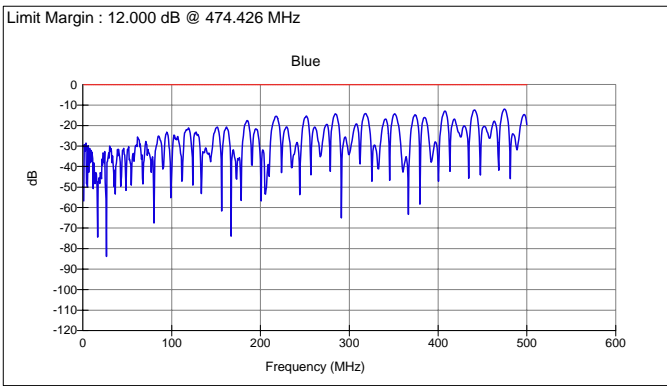
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Structural Return Loss (Terminated Far End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

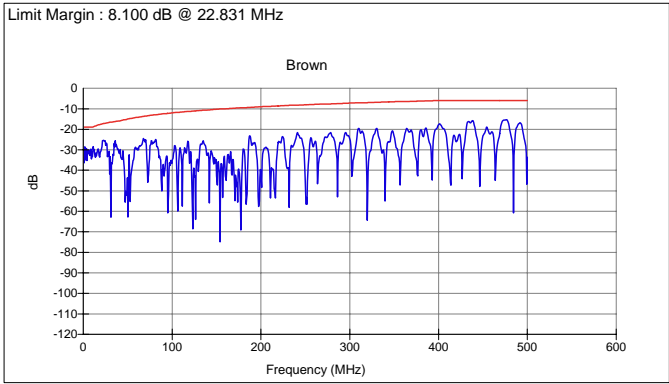
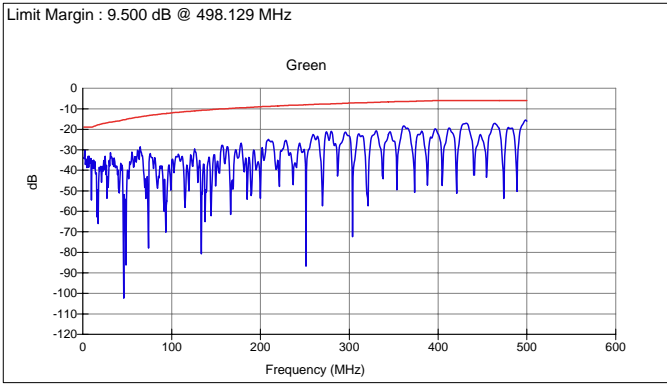
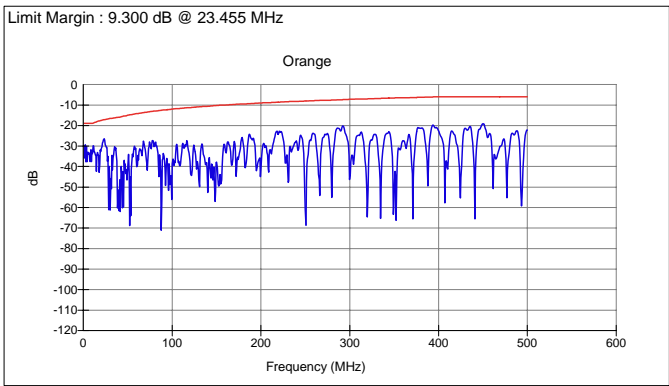
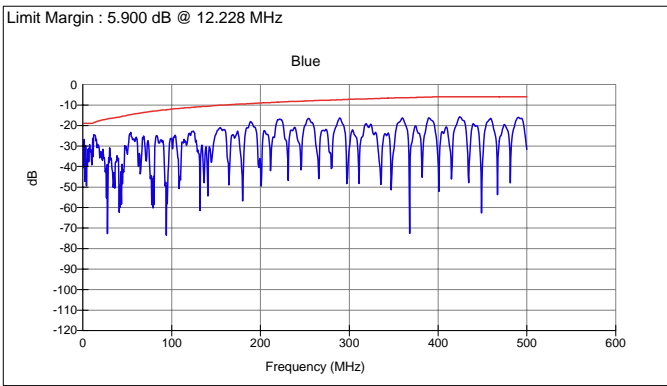




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Return Loss (Near End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

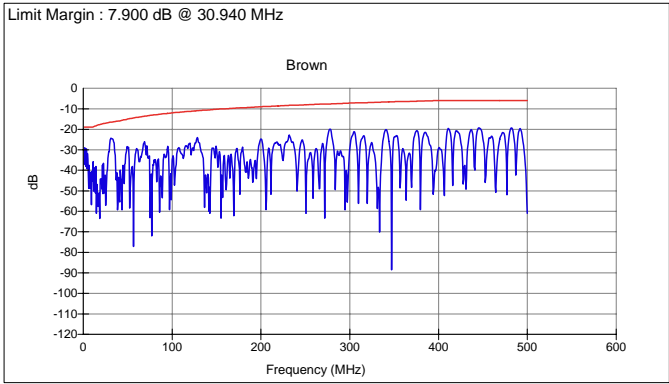
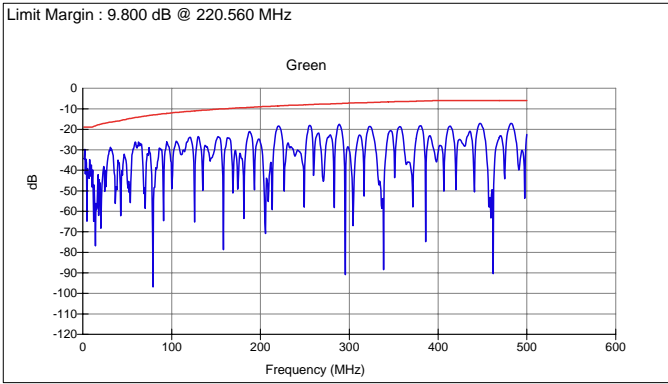
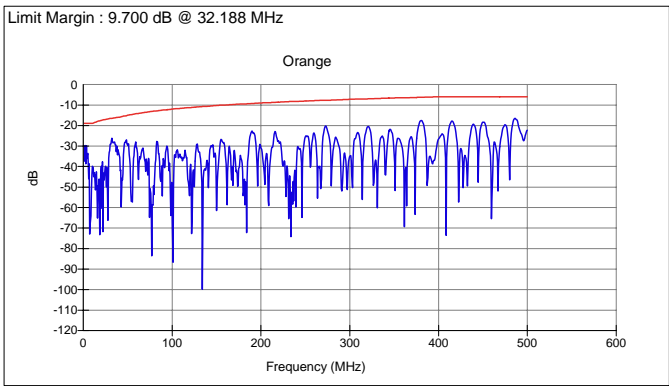
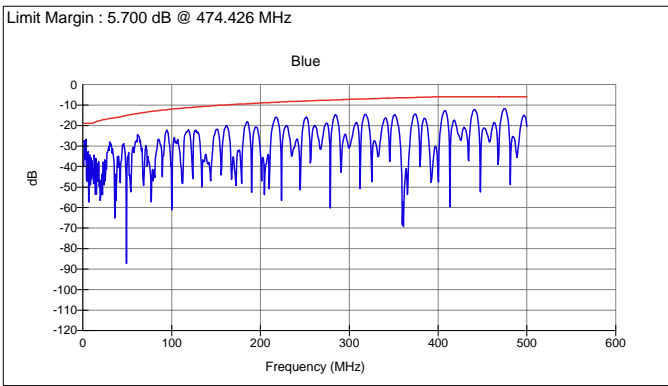




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Return Loss (Far End)

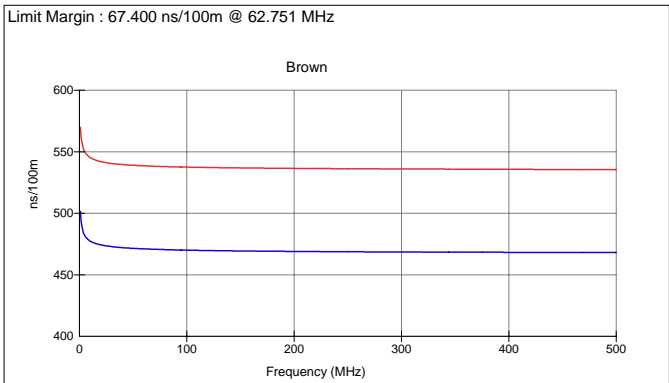
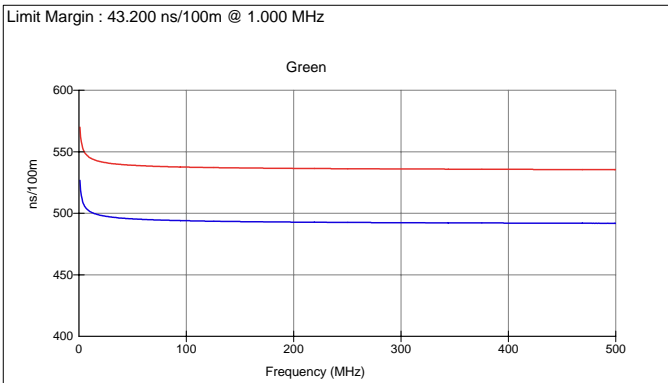
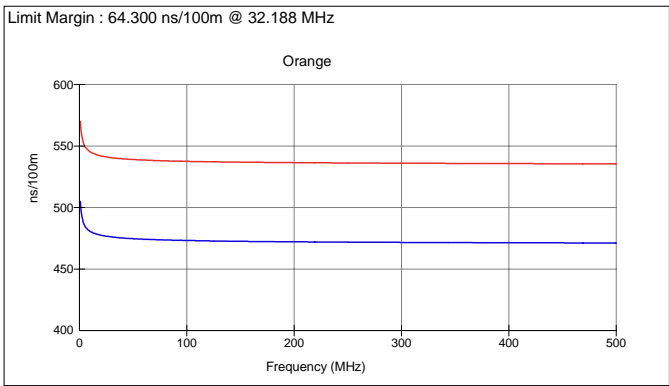
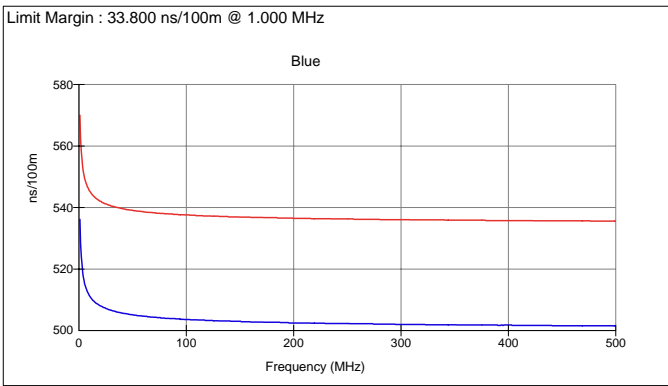
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Propagation Delay (Near End)

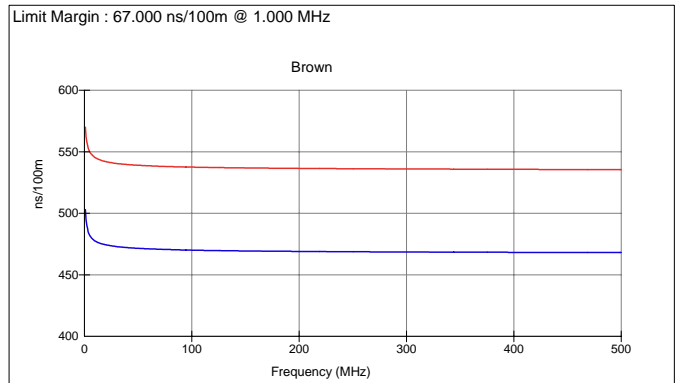
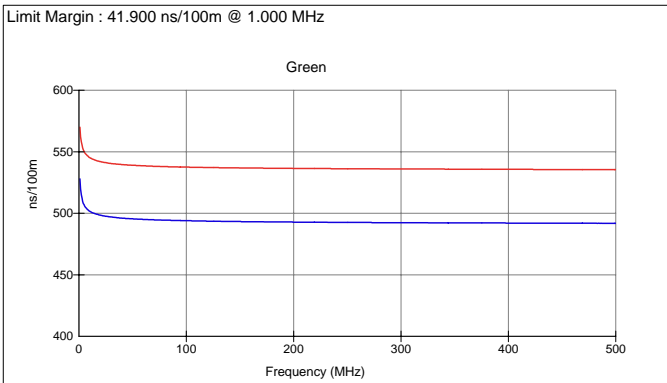
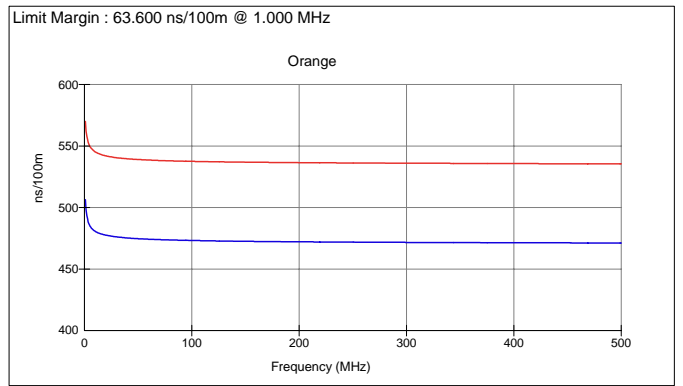
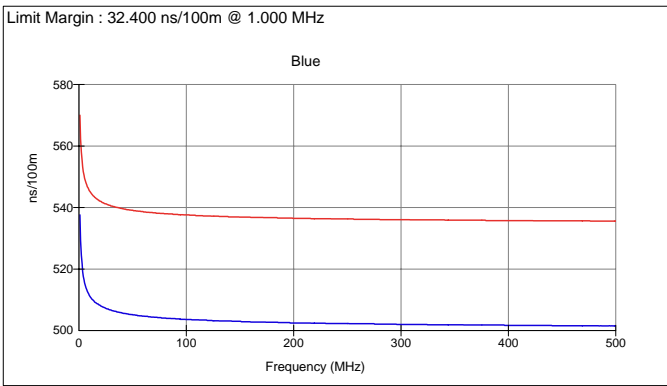
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Propagation Delay (Far End)

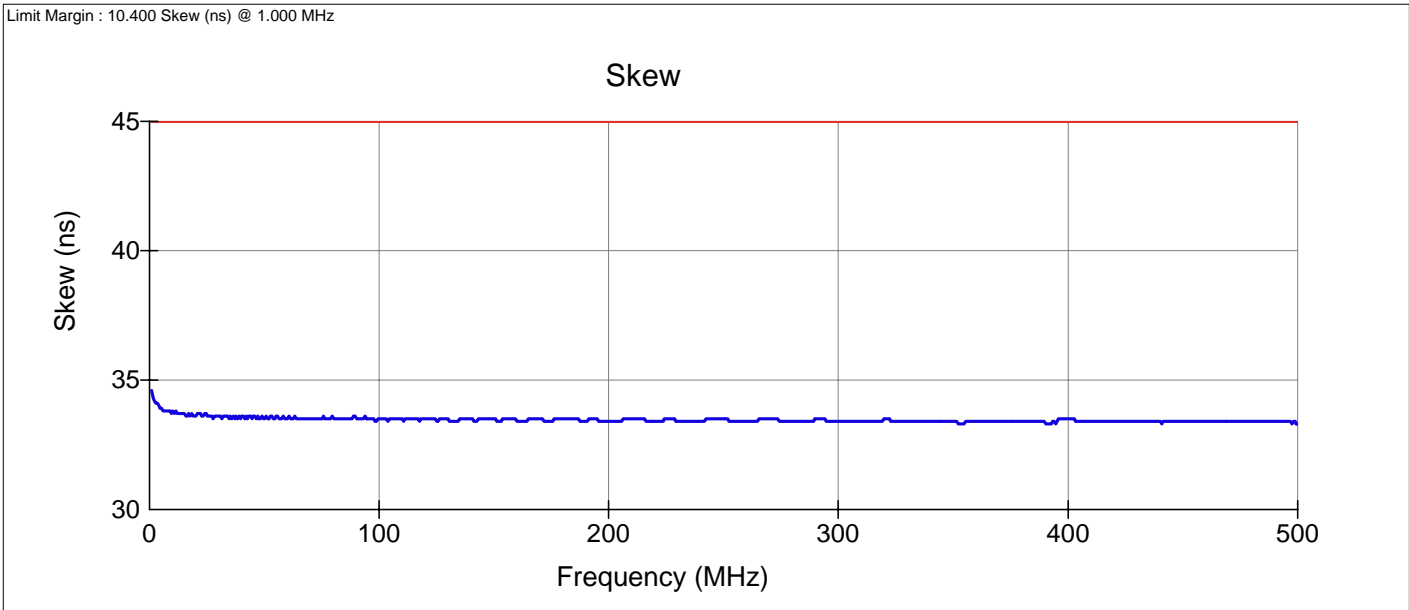
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Delay Skew (Near End)

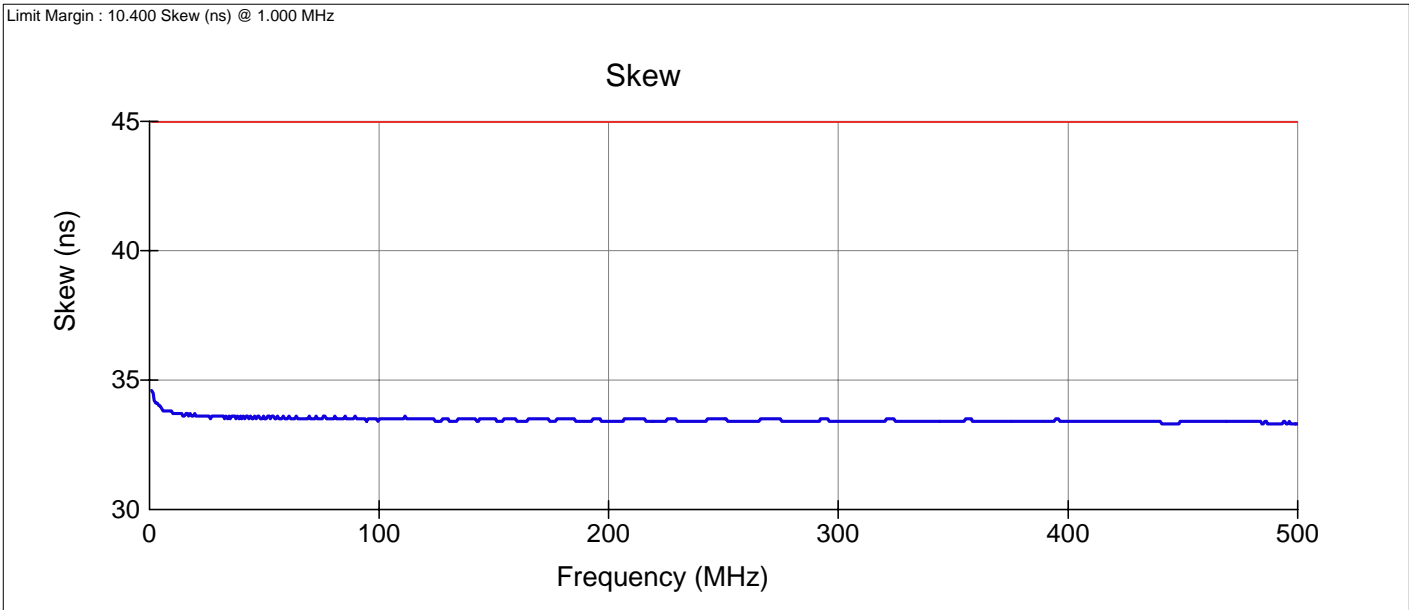
Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





Delay Skew (Far End)

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

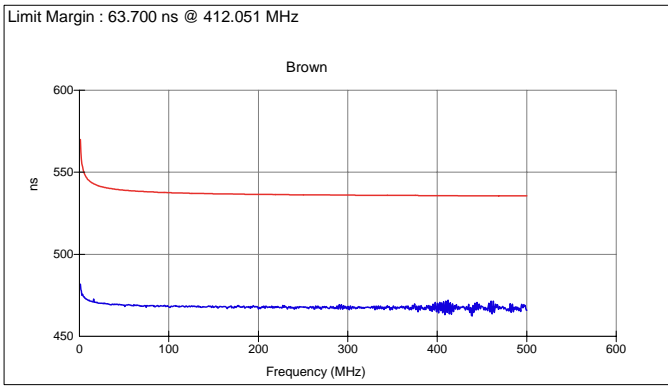
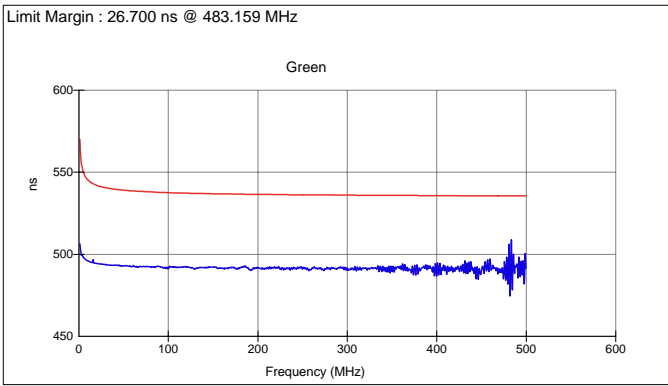
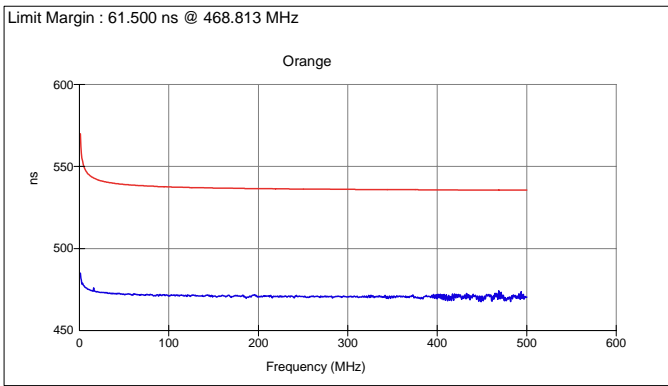
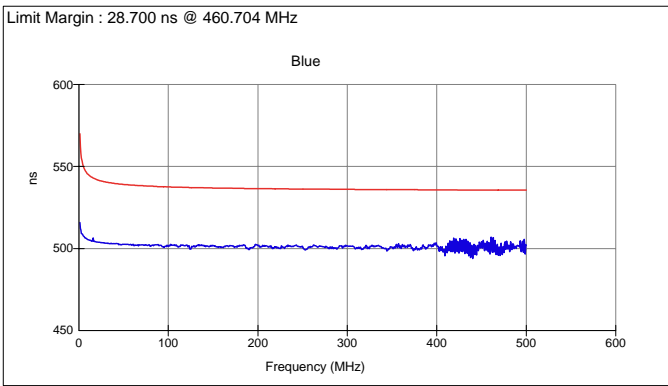




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Group Delay Near

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies





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Group Delay Far

Client	Hubbell Premise Wiring	Report No	3022866-037
Specification	4Conn-C6 500 MHz TSB155 Channel		
File Name	TR485x1d (4CC) HUBB C6	Length(m)	100
Test Started	4/5/2005 2:23:46 PM	Temperature	21.66 °C
Description	Hubbell Premise Wiring-HUBB NEXTSPEED Category 6 UTP 4CC, Test 1		
Operator Name	S. Schultz	Test Status:	Complies

