



### Cable ID: C5E-90-UTP-KJ\*01

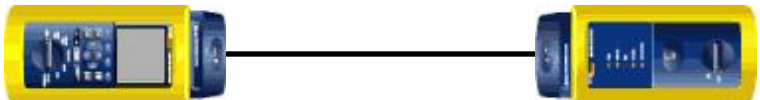
### Test Summary: PASS

Date / Time: 03/24/2009 10:18:07am  
**Headroom: 7.2 dB (NEXT 12-36)**  
**Test Limit: TIA Cat 5e Perm. Link**  
 Cable Type: UTP 100 Ohm Cat 5e  
 Fault Anomaly Threshold: 15%

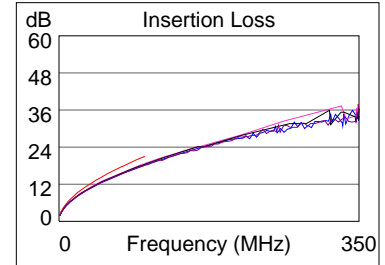
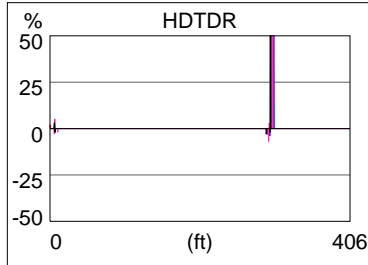
Operator: Your Name  
 Software Version: 1.925  
 Limits Version: 5.17c  
 NVP: 69.0%  
 Shield Test: N/A

Model: DSP-4300  
 Main S/N: 8371009  
 Remote S/N: 8371009  
 Main Adapter: LIA 102  
 Remote Adapter: LIA 102

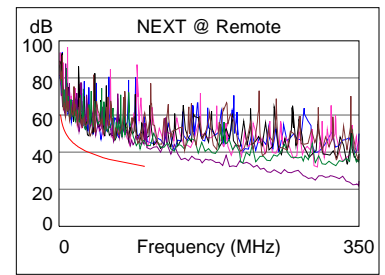
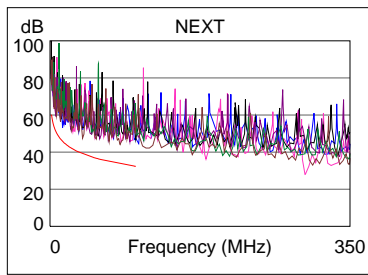
Wire Map	1 2 3 4 5 6 7 8 S
<b>PASS</b>	
	1 2 3 4 5 6 7 8



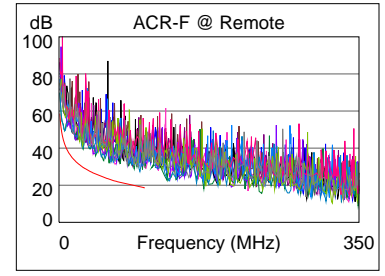
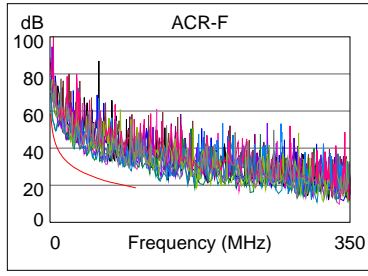
Length (ft), Limit 295	[Pair 78]	288
Prop. Delay (ns), Limit 498	[Pair 36]	432
Delay Skew (ns), Limit 44	[Pair 36]	7
Resistance (ohms)		N/A
Insertion Loss Margin (dB)	[Pair 36]	2.2
Frequency (MHz)	[Pair 36]	98.6
Limit (dB)	[Pair 36]	20.8



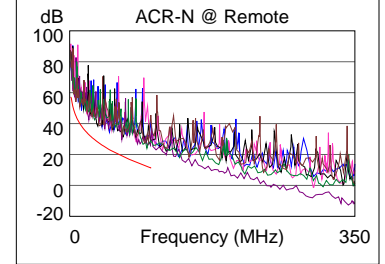
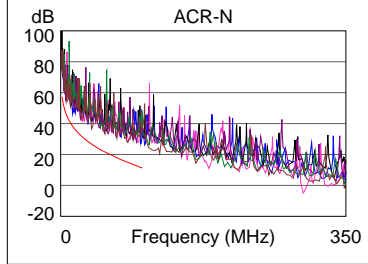
	Worst Case Margin		Worst Case Value	
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	12-36	45-78	45-78	36-78
<b>NEXT (dB)</b>	7.2	8.0	10.2	8.9
Freq. (MHz)	14.8	7.8	82.0	94.8
Limit (dB)	45.8	50.2	33.8	32.7
Worst Pair	45	45	45	36
<b>PS NEXT (dB)</b>	8.5	8.5	11.3	9.6
Freq. (MHz)	6.4	64.2	83.0	95.2
Limit (dB)	48.5	32.5	30.7	29.7



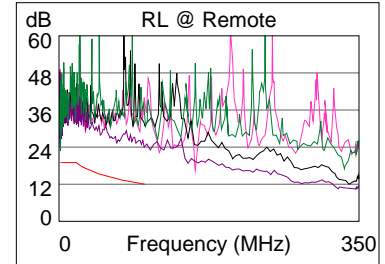
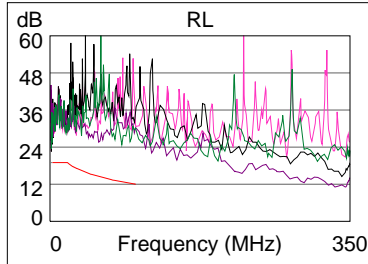
	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-45	45-36	45-36
<b>ACR-F (dB)</b>	6.6	6.6	8.2	8.3
Freq. (MHz)	3.7	3.7	94.4	94.4
Limit (dB)	47.3	47.3	19.1	19.1
Worst Pair	45	45	45	45
<b>PS ACR-F (dB)</b>	8.9	9.2	10.5	9.8
Freq. (MHz)	3.7	3.7	100.0	93.4
Limit (dB)	44.3	44.3	15.6	16.2



	MAIN	SR	MAIN	SR
Worst Pair	12-36	45-78	12-36	36-78
<b>ACR-N (dB)</b>	7.9	8.6	14.5	11.7
Freq. (MHz)	14.8	7.8	99.0	95.0
Limit (dB)	38.2	44.8	11.5	12.3
Worst Pair	45	45	45	36
<b>PS ACR-N (dB)</b>	8.9	9.2	14.8	12.0
Freq. (MHz)	6.4	6.2	93.4	95.2
Limit (dB)	43.7	44.0	9.6	9.2



	MAIN	SR	MAIN	SR
Worst Pair	12	45	78	45
<b>RL (dB)</b>	7.6	8.5	12.0	11.7
Freq. (MHz)	3.8	3.8	84.0	99.8
Limit (dB)	19.0	19.0	12.8	12.0



Compliant Network Standards:  
 10BASE-T      100BASE-TX      100BASE-T4  
 1000BASE-T    ATM-25            ATM-51  
 ATM-155       100VG-AnyLAN    TR-4  
 TR-16 Active    TR-16 Passive



# Cable ID: C5E-90-UTP-KJ\*02

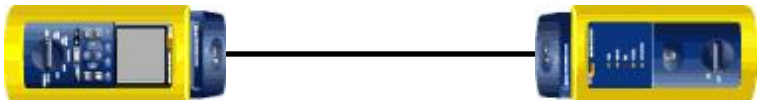
# Test Summary: PASS

Date / Time: 03/24/2009 10:20:02am  
**Headroom: 7.3 dB (NEXT 12-36)**  
**Test Limit: TIA Cat 5e Perm. Link**  
 Cable Type: UTP 100 Ohm Cat 5e  
 Fault Anomaly Threshold: 15%

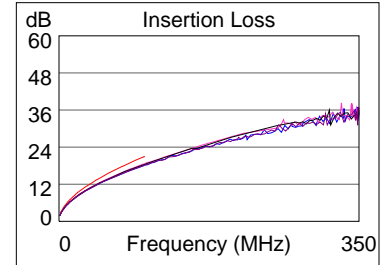
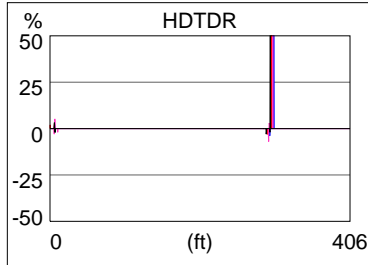
Operator: Your Name  
 Software Version: 1.925  
 Limits Version: 5.17c  
 NVP: 69.0%  
 Shield Test: N/A

Model: DSP-4300  
 Main S/N: 8371009  
 Remote S/N: 8371009  
 Main Adapter: LIA 102  
 Remote Adapter: LIA 102

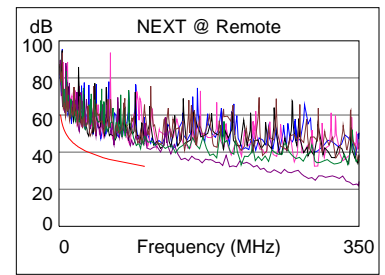
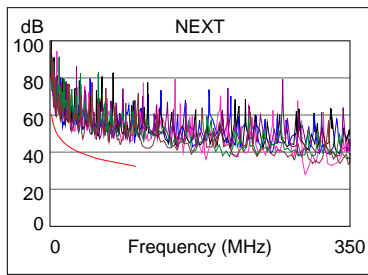
Wire Map	1 2 3 4 5 6 7 8 S
<b>PASS</b>	
	1 2 3 4 5 6 7 8



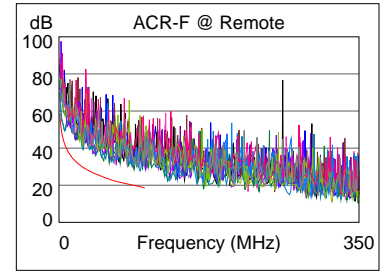
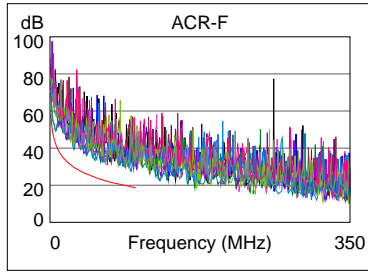
Length (ft), Limit 295	[Pair 78]	288
Prop. Delay (ns), Limit 498	[Pair 36]	432
Delay Skew (ns), Limit 44	[Pair 36]	7
Resistance (ohms)		N/A
Insertion Loss Margin (dB)	[Pair 36]	2.2
Frequency (MHz)	[Pair 36]	98.8
Limit (dB)	[Pair 36]	20.8



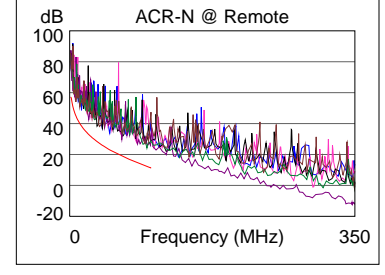
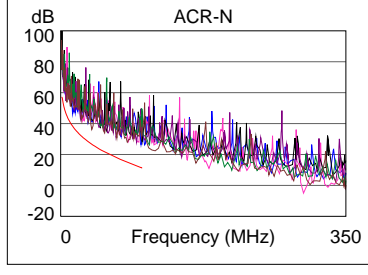
	Worst Case Margin		Worst Case Value	
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	12-36	45-78	45-78	36-78
<b>NEXT (dB)</b>	7.3	8.1	10.3	9.0
Freq. (MHz)	14.8	7.8	82.0	95.0
Limit (dB)	45.8	50.2	33.8	32.7
Worst Pair	45	45	45	36
<b>PS NEXT (dB)</b>	8.4	8.5	11.3	9.6
Freq. (MHz)	6.4	64.4	83.0	95.4
Limit (dB)	48.5	32.5	30.7	29.7



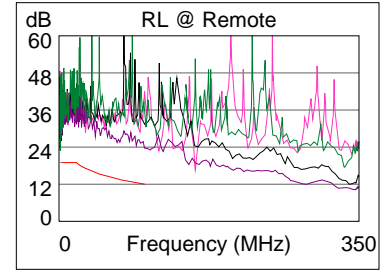
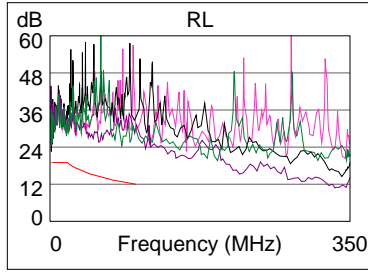
	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-45	45-36	45-36
<b>ACR-F (dB)</b>	6.5	6.5	8.4	8.5
Freq. (MHz)	3.5	3.6	94.6	94.6
Limit (dB)	47.8	47.5	19.1	19.1
Worst Pair	45	45	45	45
<b>PS ACR-F (dB)</b>	8.9	9.2	9.7	9.8
Freq. (MHz)	3.5	3.7	91.6	93.6
Limit (dB)	44.8	44.3	16.4	16.2



	MAIN	SR	MAIN	SR
Worst Pair	12-36	45-78	12-36	36-78
<b>ACR-N (dB)</b>	8.0	8.7	14.4	11.7
Freq. (MHz)	14.8	7.8	98.8	95.0
Limit (dB)	38.2	44.8	11.5	12.3
Worst Pair	45	45	45	36
<b>PS ACR-N (dB)</b>	8.8	9.1	14.9	12.0
Freq. (MHz)	6.4	6.2	93.4	95.4
Limit (dB)	43.7	44.0	9.6	9.2



	MAIN	SR	MAIN	SR
Worst Pair	12	45	78	45
<b>RL (dB)</b>	7.6	8.4	11.7	11.7
Freq. (MHz)	3.8	3.7	83.8	99.8
Limit (dB)	19.0	19.0	12.8	12.0



Compliant Network Standards:  
 10BASE-T      100BASE-TX      100BASE-T4  
 1000BASE-T    ATM-25            ATM-51  
 ATM-155       100VG-AnyLan    TR-4  
 TR-16 Active    TR-16 Passive



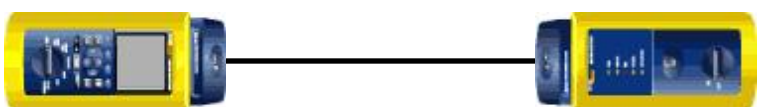
### Cable ID: C5E-90-UTP-KJ\*03

### Test Summary: PASS

Date / Time: 03/24/2009 10:22:30am  
**Headroom: 6.9 dB (NEXT 12-36)**  
**Test Limit: TIA Cat 5e Perm. Link**  
 Cable Type: UTP 100 Ohm Cat 5e  
 Fault Anomaly Threshold: 15%

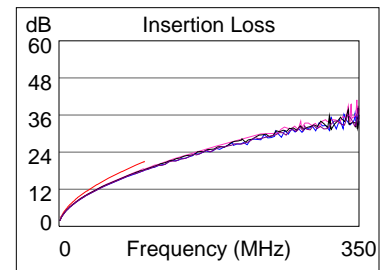
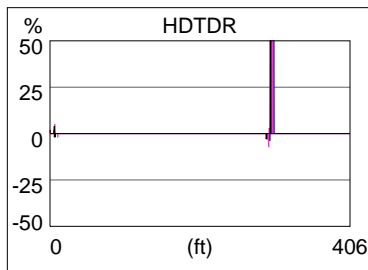
Operator: Your Name  
 Software Version: 1.925  
 Limits Version: 5.17c  
 NVP: 69.0%  
 Shield Test: N/A

Model: DSP-4300  
 Main S/N: 8371009  
 Remote S/N: 8371009  
 Main Adapter: LIA 102  
 Remote Adapter: LIA 102

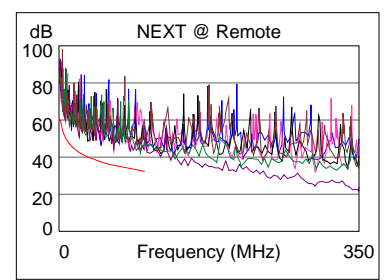
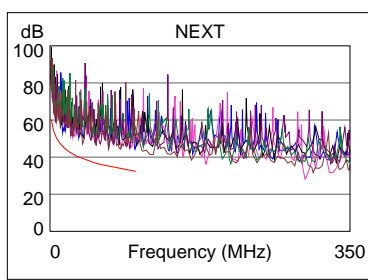


Wire Map	1 2 3 4 5 6 7 8 S
<b>PASS</b>	
	1 2 3 4 5 6 7 8

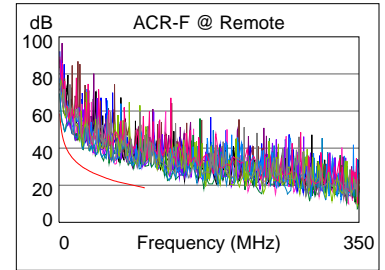
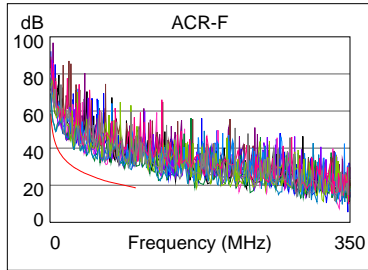
Length (ft), Limit 295	[Pair 78]	288
Prop. Delay (ns), Limit 498	[Pair 36]	432
Delay Skew (ns), Limit 44	[Pair 36]	7
Resistance (ohms)		N/A
Insertion Loss Margin (dB)	[Pair 36]	2.2
Frequency (MHz)	[Pair 36]	98.6
Limit (dB)	[Pair 36]	20.8



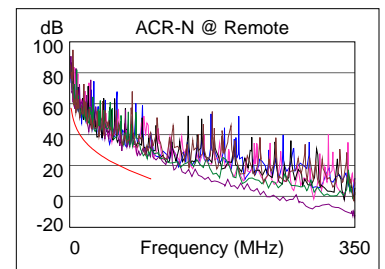
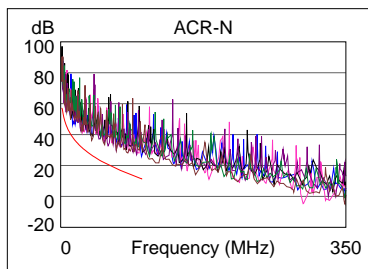
	Worst Case Margin		Worst Case Value	
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	12-36	36-45	45-78	36-78
<b>NEXT (dB)</b>	6.9	8.0	9.8	9.3
Freq. (MHz)	14.8	23.5	82.0	95.0
Limit (dB)	45.8	42.6	33.8	32.7
Worst Pair	45	45	45	36
<b>PS NEXT (dB)</b>	8.0	8.4	10.9	9.7
Freq. (MHz)	6.3	64.4	83.0	95.4
Limit (dB)	48.6	32.5	30.7	29.7



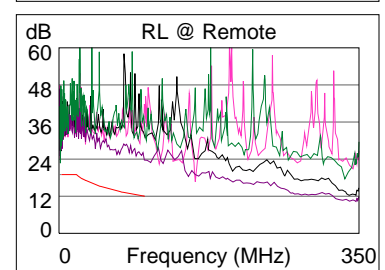
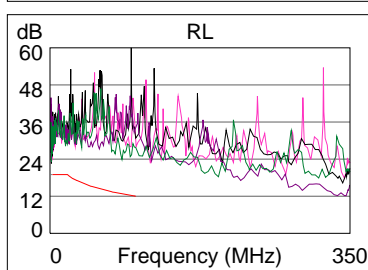
	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-45	45-36	45-36
<b>ACR-F (dB)</b>	6.4	6.4	8.7	8.8
Freq. (MHz)	3.7	3.7	94.6	94.6
Limit (dB)	47.3	47.3	19.1	19.1
Worst Pair	45	45	45	45
<b>PS ACR-F (dB)</b>	8.8	9.0	9.7	10.0
Freq. (MHz)	3.7	3.7	91.6	93.6
Limit (dB)	44.3	44.3	16.4	16.2



	MAIN	SR	MAIN	SR
Worst Pair	12-36	45-78	12-36	36-78
<b>ACR-N (dB)</b>	7.6	8.8	14.2	12.0
Freq. (MHz)	14.8	7.8	99.0	95.0
Limit (dB)	38.2	44.8	11.5	12.3
Worst Pair	45	45	45	36
<b>PS ACR-N (dB)</b>	8.4	8.9	14.3	12.1
Freq. (MHz)	6.3	6.2	93.2	95.4
Limit (dB)	43.8	44.0	9.6	9.2



	MAIN	SR	MAIN	SR
Worst Pair	12	45	78	45
<b>RL (dB)</b>	7.5	8.4	11.0	11.7
Freq. (MHz)	3.8	3.8	83.8	100.0
Limit (dB)	19.0	19.0	12.8	12.0



Compliant Network Standards:  
 10BASE-T      100BASE-TX      100BASE-T4  
 1000BASE-T    ATM-25            ATM-51  
 ATM-155       100VG-AnyLAN   TR-4  
 TR-16 Active    TR-16 Passive



### Cable ID: C5E-90-UTP-KJ\*04

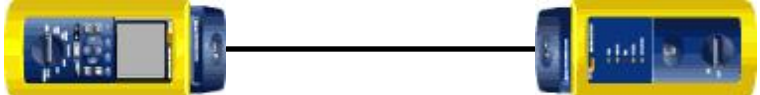
### Test Summary: PASS

Date / Time: 03/24/2009 10:24:22am  
**Headroom: 7.3 dB (NEXT 12-36)**  
**Test Limit: TIA Cat 5e Perm. Link**  
 Cable Type: UTP 100 Ohm Cat 5e  
 Fault Anomaly Threshold: 15%

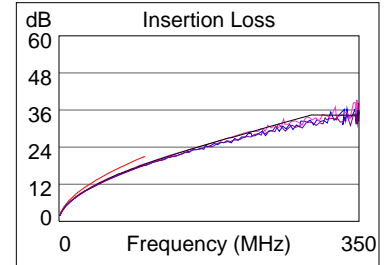
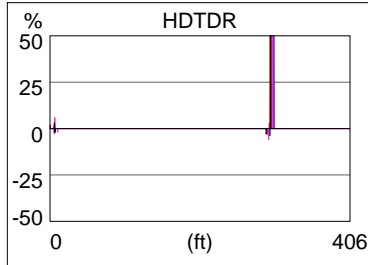
Operator: Your Name  
 Software Version: 1.925  
 Limits Version: 5.17c  
 NVP: 69.0%  
 Shield Test: N/A

Model: DSP-4300  
 Main S/N: 8371009  
 Remote S/N: 8371009  
 Main Adapter: LIA 102  
 Remote Adapter: LIA 102

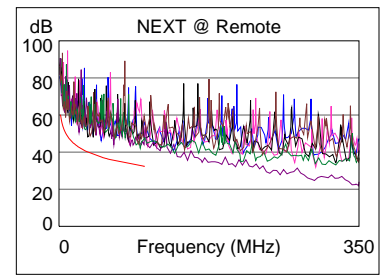
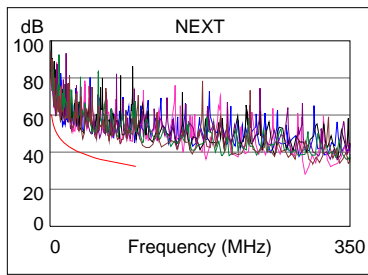
Wire Map	1 2 3 4 5 6 7 8 S
<b>PASS</b>	
	1 2 3 4 5 6 7 8



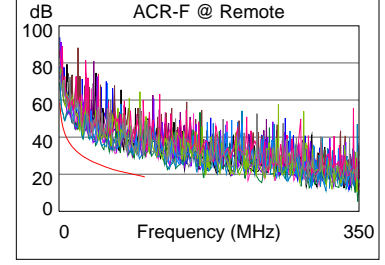
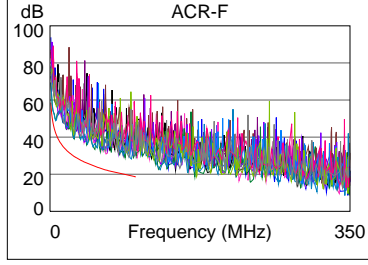
Length (ft), Limit 295	[Pair 78]	288
Prop. Delay (ns), Limit 498	[Pair 36]	432
Delay Skew (ns), Limit 44	[Pair 36]	7
Resistance (ohms)		N/A
Insertion Loss Margin (dB)	[Pair 36]	2.2
Frequency (MHz)	[Pair 36]	98.8
Limit (dB)	[Pair 36]	20.8



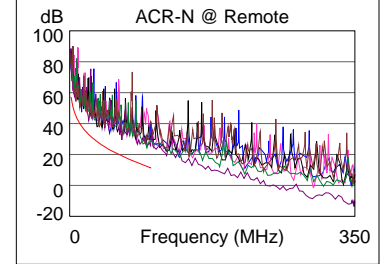
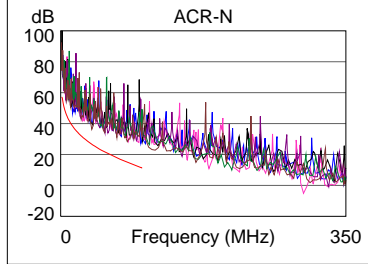
	Worst Case Margin		Worst Case Value	
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	12-36	36-45	12-36	36-78
<b>NEXT (dB)</b>	7.3	7.9	12.1	9.3
Freq. (MHz)	14.8	23.5	99.0	95.0
Limit (dB)	45.8	42.6	32.4	32.7
Worst Pair	45	45	45	36
<b>PS NEXT (dB)</b>	8.5	8.3	11.6	9.7
Freq. (MHz)	6.4	64.4	83.0	95.4
Limit (dB)	48.5	32.5	30.7	29.7



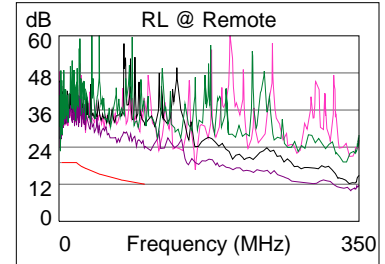
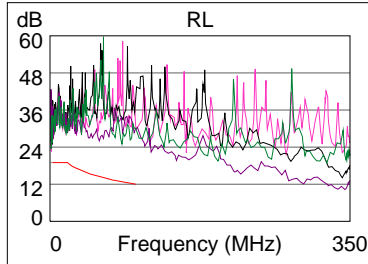
	Worst Case Margin		Worst Case Value	
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	36-45	36-45	45-36	45-36
<b>ACR-F (dB)</b>	6.3	6.3	8.5	8.5
Freq. (MHz)	3.5	3.6	94.6	94.6
Limit (dB)	47.8	47.5	19.1	19.1
Worst Pair	45	45	45	45
<b>PS ACR-F (dB)</b>	8.7	9.1	10.5	10.0
Freq. (MHz)	3.5	3.8	100.0	93.6
Limit (dB)	44.8	44.0	15.6	16.2



	Worst Case Margin		Worst Case Value	
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	12-36	36-45	12-36	36-78
<b>ACR-N (dB)</b>	8.0	8.9	14.4	12.0
Freq. (MHz)	14.8	23.5	98.8	95.0
Limit (dB)	38.2	32.9	11.5	12.3
Worst Pair	45	45	45	36
<b>PS ACR-N (dB)</b>	8.9	9.2	15.3	12.1
Freq. (MHz)	6.4	6.2	93.2	95.4
Limit (dB)	43.7	44.0	9.6	9.2



	Worst Case Margin		Worst Case Value	
<b>PASS</b>	MAIN	SR	MAIN	SR
Worst Pair	12	45	78	45
<b>RL (dB)</b>	7.4	8.4	12.2	11.6
Freq. (MHz)	3.8	3.8	84.0	99.8
Limit (dB)	19.0	19.0	12.8	12.0



Compliant Network Standards:  
 10BASE-T      100BASE-TX      100BASE-T4  
 1000BASE-T    ATM-25            ATM-51  
 ATM-155       100VG-AnyLAN    TR-4  
 TR-16 Active    TR-16 Passive