

February 21, 2017

Test report number 102765989CRT-001j
Project number 102765989-311

Panduit Corporation
10500 West 167th Street
Orland Park, IL 60467

TEST:

Electrical performance testing of a cabling configuration to the requirements of ANSI/TIA-568-C.2 for Category 6A channel.

STANDARD USED:

ANSI/TIA-568-C.2-2009: Balanced Twisted-Pair Telecommunications Cabling and Components Standards, dated August 2009

SECTION:

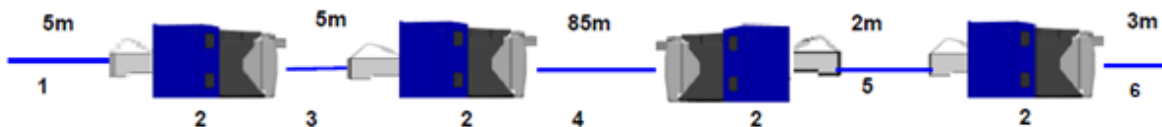
6.2: Channel transmission performance (6.2.1 to 6.2.26)

AUTHORIZATION:

The project was authorized by Ms. Kim Schmidt, representing the client, Panduit Corporation, with signed quotation number Qu-00722247.

SAMPLE DESCRIPTION:

The client supplied a 4-connector channel as illustrated below. The samples were received on February 6, 2017 and were production samples in undamaged condition.



Component Id	Manufacturer	Description	Part number
1	Panduit	Equipment Cord	UTP6ASD5M
2	Panduit	Outlet	CJ6X88TG**
3	Panduit	Zone Cord	UZJPBU15BL
4	General Cable	U/UTP Plenum Horizontal Cable	GenSPEED 10 MTP
5	Panduit	Cross Connect	UTP6ASD2M
6	Panduit	Outlet Equipment Cord	UTP6ASD3M

**EQUIPMENT LIST:**

The following equipment was employed in conducting the tests.

<u>Equipment used</u>	<u>Model number</u>	<u>Control number</u>	<u>Calibration date</u>	<u>Calibration due date</u>
Keysight Network Analyzer	8753E	E307	3/9/2016	3/9/2017
Keysight LCR Meter	4263B	E355	6/7/2016	6/7/2017
Temperature humidity meter	HH314A	T1309	8/11/2016	8/11/2017

DATE OF TEST:

February 18, 2017 through February 21, 2017

TEST REPORT REVISION HISTORY:

First Issue: February 21, 2017 Original Document

RESULTS: See appendixes A through B for the test results.

CONCLUSION:

The 4-connector channel, as previously described and supplied by the client, was tested in accordance with the standard referred to on page 1, and did comply with the indicated applicable transmission requirements. The testing was performed at Intertek located in Cortland, New York.

The procedures and requirements were taken from the standard referred to on page 1.

Reviewed and Approved By:

Antoine Pelletier
Project Engineer
Global Cabling Products Testing

David Ayers
Technician
Global Cabling Products Testing



Appendix A
Internals test results

This appendix contains 39 pages.



Low Frequency Report

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

DC Resistance (Ohms)				
45	12	36	78	Limit (Ohms)
7.4160	7.2994	7.3254	7.3287	
7.4296	7.2663	7.2933	7.3522	

Resistance Unbalanced (%)				
45	12	36	78	Limit (%)
0.09	0.23	0.22	0.16	3.00

Resistance Unbalanced Pair-Pair (%)						
45 - 12	45 - 36	45 - 78	12 - 36	12 - 78	36 - 78	Limit (%)
0.95	0.77	0.56	0.18	0.39	0.21	

DC Loop Resistance (Ohms)				
45	12	36	78	Limit (Ohms)
14.8460	14.5730	14.6260	14.6760	25.0000



Insertion Loss

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

Insertion Loss (dB)					
Freq (MHz)	Limit	45	12	36	78
1.	-2.30	-2.01	-1.99	-1.91	-1.97
4.	-4.16	-3.89	-3.80	-3.84	-3.82
8.	-5.81	-5.36	-5.24	-5.35	-5.27
10.	-6.49	-5.96	-5.82	-5.95	-5.85
16.	-8.20	-7.48	-7.33	-7.49	-7.38
20.	-9.17	-8.32	-8.16	-8.33	-8.19
25.	-10.27	-9.32	-9.12	-9.35	-9.18
31.25	-11.50	-10.44	-10.23	-10.48	-10.28
62.5	-16.40	-15.02	-14.74	-15.07	-14.77
100.	-20.93	-19.23	-18.94	-19.33	-19.05
155.	-26.34	-24.39	-24.04	-24.52	-24.04
200.	-30.14	-28.21	-27.77	-28.31	-27.78
250.	-33.95	-31.67	-31.35	-31.97	-31.36
300.	-37.44	-35.06	-34.67	-35.39	-34.64
350.	-40.68	-38.31	-37.80	-38.52	-37.83
400.	-43.74	-41.28	-40.94	-41.71	-40.85
450.	-46.63	-44.08	-43.64	-44.69	-43.87
500.	-49.39	-47.18	-46.51	-47.44	-46.58
550.		-49.63	-49.21	-50.09	-49.34
600.		-53.14	-51.78	-52.87	-51.91
650.		-55.41	-54.21	-55.83	-54.21



NEXT - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

NEXT - Near End (dB)							
Freq (MHz)	Limit	45 - 12	45 - 36	45 - 78	12 - 36	12 - 78	36 - 78
1.	-65.00	-84.82	-89.93	-85.32	-87.13	-91.48	-84.90
4.	-63.07	-80.40	-87.71	-76.92	-88.31	-86.72	-79.09
8.	-58.17	-75.98	-80.84	-72.88	-75.23	-85.61	-72.32
10.	-56.58	-77.52	-73.93	-76.11	-69.70	-78.74	-71.43
16.	-53.23	-81.95	-78.06	-72.12	-71.81	-78.62	-65.47
20.	-51.63	-76.31	-70.57	-75.78	-69.68	-79.44	-62.73
25.	-50.03	-85.48	-71.82	-70.82	-62.24	-77.94	-67.53
31.25	-48.42	-74.98	-66.37	-73.82	-64.90	-70.66	-69.76
62.5	-43.38	-66.90	-60.21	-73.64	-62.69	-63.71	-59.03
100.	-39.93	-68.46	-56.56	-60.13	-50.91	-62.47	-56.88
155.	-36.68	-63.50	-56.47	-53.60	-50.40	-57.67	-51.16
200.	-34.78	-56.40	-47.05	-56.23	-51.74	-54.98	-59.65
250.	-33.11	-53.24	-48.70	-51.11	-54.39	-54.84	-50.64
300.	-31.75	-53.51	-49.71	-44.27	-51.34	-46.66	-46.72
350.	-30.31	-52.78	-44.26	-47.49	-44.95	-49.80	-50.05
400.	-28.73	-46.12	-40.43	-45.79	-50.74	-50.93	-42.05
450.	-27.34	-50.24	-41.29	-48.20	-52.75	-41.72	-44.92
500.	-26.11	-45.19	-34.07	-47.31	-52.71	-42.96	-44.87
550.		-45.96	-35.04	-46.76	-48.44	-42.44	-41.37
600.		-47.30	-29.98	-49.57	-45.50	-42.89	-44.90
650.		-50.03	-29.32	-43.25	-49.09	-37.82	-49.70



NEXT - Far End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

NEXT - Far End (dB)							
Freq (MHz)	Limit	45 - 12	45 - 36	45 - 78	12 - 36	12 - 78	36 - 78
1.	-65.00	-94.06	-91.06	-87.32	-87.18	-96.35	-88.34
4.	-63.07	-80.57	-80.70	-77.31	-80.53	-85.10	-87.34
8.	-58.17	-78.37	-80.88	-76.56	-76.09	-83.17	-76.31
10.	-56.58	-76.89	-92.66	-81.14	-82.63	-86.30	-70.81
16.	-53.23	-82.08	-69.21	-73.41	-68.53	-77.47	-74.22
20.	-51.63	-87.57	-66.06	-79.40	-65.73	-70.25	-68.65
25.	-50.03	-75.16	-67.84	-66.25	-65.84	-84.22	-67.26
31.25	-48.42	-69.89	-69.51	-67.08	-67.96	-73.00	-67.07
62.5	-43.38	-74.41	-56.89	-61.03	-58.53	-60.53	-65.53
100.	-39.93	-70.39	-56.07	-61.25	-62.62	-61.12	-58.60
155.	-36.68	-55.17	-57.26	-59.99	-52.62	-60.07	-54.37
200.	-34.78	-54.65	-57.87	-56.05	-51.35	-53.80	-51.15
250.	-33.11	-60.40	-55.99	-55.37	-51.36	-45.28	-52.95
300.	-31.75	-48.69	-51.35	-62.09	-46.84	-49.09	-54.03
350.	-30.31	-52.24	-47.04	-65.46	-57.42	-54.79	-48.11
400.	-28.73	-42.81	-48.98	-46.66	-54.67	-58.44	-49.32
450.	-27.34	-44.45	-54.10	-47.78	-46.68	-56.99	-39.82
500.	-26.11	-48.28	-42.86	-48.93	-47.41	-43.43	-43.83
550.		-46.93	-46.98	-42.52	-53.33	-40.02	-59.38
600.		-39.37	-46.11	-43.93	-43.85	-42.80	-40.43
650.		-46.17	-37.58	-54.65	-38.62	-43.88	-36.26



PSNEXT - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

PSNEXT - Near End (dB)					
Freq (MHz)	Limit	45	12	36	78
1.	-62.00	-81.25	-82.15	-81.73	-81.56
4.	-60.57	-74.62	-77.09	-74.36	-74.24
8.	-55.60	-70.55	-72.00	-69.75	-69.30
10.	-54.00	-70.32	-68.47	-66.45	-68.52
16.	-50.59	-70.64	-70.59	-64.29	-64.45
20.	-48.97	-68.62	-68.46	-61.37	-62.42
25.	-47.34	-67.97	-62.10	-60.55	-65.42
31.25	-45.71	-65.11	-63.54	-61.76	-66.32
62.5	-40.59	-59.09	-59.25	-55.52	-57.60
100.	-37.08	-54.76	-50.51	-49.07	-54.41
155.	-33.78	-51.22	-49.41	-47.07	-48.61
200.	-31.85	-46.10	-49.07	-45.58	-51.60
250.	-30.15	-45.82	-49.33	-45.87	-46.98
300.	-28.76	-42.78	-44.74	-44.03	-40.95
350.	-27.32	-42.16	-43.21	-41.01	-44.17
400.	-25.79	-38.49	-43.87	-37.92	-40.14
450.	-24.44	-40.05	-40.84	-39.51	-39.40
500.	-23.24	-33.56	-40.65	-33.65	-39.87
550.		-34.44	-40.14	-33.97	-38.20
600.		-29.86	-40.07	-29.73	-40.23
650.		-29.11	-37.27	-29.24	-36.51



PSNEXT - Far End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

PSNEXT - Far End (dB)					
Freq (MHz)	Limit	45	12	36	78
1.	-62.00	-83.80	-85.17	-83.38	-84.35
4.	-60.57	-74.16	-75.66	-75.26	-75.49
8.	-55.60	-73.42	-73.48	-72.36	-72.41
10.	-54.00	-74.39	-74.72	-70.47	-69.56
16.	-50.59	-67.62	-67.83	-65.16	-69.78
20.	-48.97	-65.83	-64.38	-61.85	-66.13
25.	-47.34	-63.61	-65.24	-62.02	-63.62
31.25	-45.71	-63.81	-65.00	-63.21	-63.48
62.5	-40.59	-55.41	-56.33	-54.27	-57.07
100.	-37.08	-54.75	-58.34	-53.50	-55.20
155.	-33.78	-52.14	-50.19	-49.57	-52.42
200.	-31.85	-51.17	-48.23	-47.72	-48.42
250.	-30.15	-51.93	-44.18	-48.15	-44.25
300.	-28.76	-46.68	-43.31	-44.95	-47.72
350.	-27.32	-45.81	-49.53	-44.27	-47.16
400.	-25.79	-40.63	-42.43	-45.53	-44.57
450.	-24.44	-42.48	-42.25	-38.88	-39.11
500.	-23.24	-40.98	-41.05	-39.53	-40.00
550.		-40.12	-39.03	-45.77	-38.03
600.		-37.40	-36.76	-38.05	-37.34
650.		-36.94	-36.93	-32.61	-35.52



ACR - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

ACR - Near End (dB)							
Freq (MHz)	Limit	45 - 12	45 - 36	45 - 78	12 - 36	12 - 78	36 - 78
1.	62.70	82.83	88.02	83.35	85.21	89.51	82.93
4.	58.91	76.60	83.86	73.10	84.46	82.90	75.27
8.	52.35	70.74	75.50	67.62	69.88	80.35	67.05
10.	50.10	71.70	67.98	70.26	63.75	72.89	65.58
16.	45.03	74.62	70.58	64.74	64.32	71.24	58.09
20.	42.46	68.15	62.24	67.59	61.35	71.25	54.54
25.	39.76	76.36	62.47	61.64	52.90	68.76	58.36
31.25	36.92	64.75	55.90	63.54	54.43	60.39	59.48
62.5	26.97	52.16	45.13	58.86	47.61	48.94	44.26
100.	18.99	49.52	37.23	41.08	31.58	43.42	37.83
155.	10.34	39.46	31.95	29.55	25.89	33.62	27.11
200.	4.64	28.63	18.74	28.45	23.42	27.21	31.88
250.	-0.84	21.90	16.72	19.75	22.42	23.47	19.28
300.	-5.69	18.84	14.32	9.63	15.95	12.02	12.07
350.	-10.37	14.97	5.74	9.66	6.43	11.97	12.22
400.	-15.00	5.18	-1.29	4.94	9.03	10.08	1.20
450.	-19.29	6.59	-3.40	4.33	8.06	-2.16	1.04
500.	-23.28	-1.32	-13.37	0.74	5.27	-3.61	-1.71
550.		-3.25	-15.05	-2.58	-1.65	-6.91	-7.97
600.		-4.48	-22.89	-2.34	-7.38	-9.02	-7.02
650.		-4.18	-26.51	-10.96	-6.74	-16.39	-4.51



ACR - Far End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

ACR - Far End (dB)							
Freq (MHz)	Limit	45 - 12	45 - 36	45 - 78	12 - 36	12 - 78	36 - 78
1.	62.70	92.17	89.15	85.37	85.27	94.41	86.39
4.	58.91	76.80	76.86	73.49	76.68	81.28	83.53
8.	52.35	73.16	75.53	71.29	70.74	77.90	71.04
10.	50.10	71.09	86.71	75.29	76.68	80.45	64.96
16.	45.03	74.79	61.72	66.07	61.04	70.13	66.87
20.	42.46	79.43	57.72	71.23	57.39	62.07	60.48
25.	39.76	66.04	58.50	57.09	56.50	75.06	58.10
31.25	36.92	59.65	59.02	56.79	57.47	62.71	56.79
62.5	26.97	59.60	41.84	46.25	43.47	45.75	50.75
100.	18.99	51.38	36.69	42.17	43.24	42.04	39.51
155.	10.34	31.10	32.73	35.94	28.09	36.02	30.32
200.	4.64	26.84	29.59	28.28	23.07	26.03	23.38
250.	-0.84	29.08	24.06	23.99	19.43	13.90	21.57
300.	-5.69	14.02	15.99	27.46	11.49	14.46	19.40
350.	-10.37	14.41	8.46	27.63	18.84	16.96	10.27
400.	-15.00	1.83	7.23	5.78	12.92	17.57	8.44
450.	-19.29	0.72	9.46	3.81	2.03	13.01	-4.15
500.	-23.28	1.65	-4.69	2.35	-0.14	-3.14	-2.75
550.		-2.13	-3.15	-6.82	3.20	-9.32	10.04
600.		-12.39	-6.71	-8.04	-8.97	-9.16	-11.53
650.		-8.16	-18.32	0.30	-17.27	-10.48	-18.09



PSACR - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

PSACR - Near End (dB)					
Freq (MHz)	Limit	45	12	36	78
1.	59.70	79.23	80.16	79.82	79.59
4.	56.42	70.73	73.29	70.52	70.42
8.	49.79	65.19	66.76	64.41	64.03
10.	47.51	64.36	62.65	60.50	62.67
16.	42.40	63.17	63.26	56.81	57.07
20.	39.80	60.29	60.30	53.03	54.23
25.	37.08	58.65	52.98	51.20	56.25
31.25	34.21	54.67	53.30	51.28	56.05
62.5	24.18	44.07	44.51	40.45	42.82
100.	16.15	35.53	31.57	29.74	35.36
155.	7.44	26.83	25.37	22.55	24.56
200.	1.71	17.89	21.30	17.27	23.83
250.	-3.80	14.16	17.99	13.89	15.62
300.	-8.67	7.72	10.07	8.64	6.30
350.	-13.36	3.85	5.41	2.49	6.34
400.	-17.94	-2.79	2.93	-3.80	-0.71
450.	-22.19	-4.03	-2.80	-5.19	-4.47
500.	-26.15	-13.62	-5.87	-13.79	-6.71
550.		-15.19	-9.07	-16.12	-11.14
600.		-23.29	-11.71	-23.14	-11.69
650.		-26.30	-16.94	-26.59	-17.70



PSACR - Far End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

PSACR - Far End (dB)					
Freq (MHz)	Limit	45	12	36	78
1.	59.70	81.78	83.27	81.47	82.40
4.	56.42	70.26	71.89	71.42	71.68
8.	49.79	68.06	68.27	67.01	67.15
10.	47.51	68.44	68.92	64.52	63.71
16.	42.40	60.14	60.54	57.67	62.43
20.	39.80	57.50	56.25	53.51	57.95
25.	37.08	54.29	56.13	52.68	54.46
31.25	34.21	53.35	54.76	52.73	53.19
62.5	24.18	40.43	41.53	39.22	42.29
100.	16.15	35.51	39.32	34.12	36.11
155.	7.44	27.78	26.12	25.04	28.37
200.	1.71	23.01	20.43	19.44	20.66
250.	-3.80	20.28	12.85	16.21	12.87
300.	-8.67	11.69	8.64	9.59	13.08
350.	-13.36	7.49	11.70	5.68	9.32
400.	-17.94	-0.57	1.45	3.78	3.69
450.	-22.19	-1.65	-1.48	-5.77	-4.87
500.	-26.15	-6.13	-5.58	-8.02	-6.58
550.		-9.56	-10.02	-4.36	-11.31
600.		-16.00	-15.01	-14.77	-14.62
650.		-18.32	-17.39	-23.29	-18.84



FEXT - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

FEXT - Near End (dB)												
f (MHz)	1-2	1-3	1-4	2-1	2-3	2-4	3-1	3-2	3-4	4-1	4-2	4-3
1.	-77.60	-87.54	-74.74	-76.93	-88.21	-99.29	-83.62	-87.37	-79.29	-74.96	-97.12	-78.62
4.	-67.50	-74.60	-64.48	-67.19	-77.89	-90.40	-74.81	-77.83	-68.97	-64.57	-90.07	-69.23
8.	-65.17	-69.89	-61.59	-64.70	-74.14	-84.18	-70.08	-75.55	-65.78	-61.43	-83.84	-65.98
10.	-65.20	-68.75	-61.30	-65.18	-73.18	-81.71	-68.66	-74.90	-64.90	-61.24	-83.08	-65.19
16.	-74.06	-66.55	-64.26	-74.37	-73.10	-82.37	-66.96	-75.20	-64.80	-64.16	-81.42	-64.88
20.	-72.78	-65.75	-70.83	-72.32	-76.93	-79.38	-66.17	-76.53	-66.21	-69.78	-80.19	-65.69
25.	-62.40	-66.33	-63.73	-62.18	-76.08	-78.40	-65.72	-78.96	-68.71	-63.19	-79.42	-69.66
31.25	-57.78	-66.38	-56.44	-57.98	-73.02	-78.11	-65.79	-72.20	-85.09	-56.53	-79.00	-90.36
62.5	-56.04	-84.88	-86.05	-56.44	-69.34	-78.45	-79.65	-69.44	-57.97	-73.24	-76.38	-57.95
100.	-56.15	-65.53	-64.59	-56.08	-69.47	-89.48	-64.18	-66.40	-65.04	-64.63	-86.01	-68.52
155.	-66.51	-66.40	-61.25	-68.26	-80.88	-77.41	-67.73	-76.37	-69.24	-61.08	-76.89	-68.12
200.	-61.56	-73.13	-59.32	-60.80	-73.79	-75.78	-80.81	-72.75	-65.06	-60.77	-72.72	-65.75
250.	-66.47	-65.52	-61.40	-67.95	-80.02	-84.43	-66.10	-79.42	-63.11	-61.58	-77.30	-63.27
300.	-71.87	-69.75	-63.56	-68.05	-86.48	-92.02	-72.89	-79.49	-65.70	-67.03	-86.05	-65.57
350.	-73.06	-79.39	-66.41	-74.57	-81.15	-92.43	-81.76	-77.74	-67.46	-67.53	-81.62	-68.10
400.	-69.75	-70.64	-68.00	-70.89	-81.77	-83.72	-72.48	-84.45	-73.54	-69.32	-79.72	-72.64
450.	-83.97	-87.04	-71.01	-83.13	-79.63	-88.05	-83.02	-86.55	-73.96	-72.32	-91.24	-73.18
500.	-73.23	-77.14	-80.49	-71.18	-80.87	-81.19	-78.51	-81.63	-78.48	-77.98	-86.87	-80.50
550.	-82.46	-75.83	-80.92	-80.90	-80.02	-87.59	-78.37	-86.89	-77.93	-74.34	-93.96	-83.09
600.	-79.48	-88.48	-76.84	-77.70	-81.22	-93.50	-89.23	-79.80	-86.19	-74.83	-86.36	-80.94
650.	-79.89	-86.11	-77.98	-78.43	-76.50	-94.85	-76.39	-78.49	-80.32	-75.11	-87.40	-77.09



ACRF (ELFEXT) - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

ACRF (ELFEXT) - Near End (dB)													
f (MHz)	Limit	1-2	1-3	1-4	2-1	2-3	2-4	3-1	3-2	3-4	4-1	4-2	4-3
1.	-62.51	-75.61	-85.63	-72.77	-74.92	-86.30	-97.31	-81.61	-85.38	-77.32	-72.95	-95.13	-76.71
4.	-51.25	-63.70	-70.76	-60.66	-63.30	-74.05	-86.58	-70.92	-74.03	-65.15	-60.68	-86.27	-65.39
8.	-45.20	-59.93	-64.54	-56.32	-59.35	-68.79	-78.91	-64.72	-70.31	-60.51	-56.07	-78.60	-60.63
10.	-43.26	-59.38	-62.80	-55.45	-59.22	-67.23	-75.86	-62.70	-69.07	-59.05	-55.28	-77.26	-59.24
16.	-39.18	-66.73	-59.06	-56.89	-66.89	-65.61	-74.99	-59.49	-67.87	-57.42	-56.69	-74.09	-57.39
20.	-37.24	-64.62	-57.42	-62.64	-64.00	-68.60	-71.19	-57.85	-68.37	-58.02	-61.46	-72.03	-57.36
25.	-35.30	-53.28	-56.99	-54.55	-52.87	-66.74	-69.23	-56.40	-69.84	-59.54	-53.88	-70.30	-60.31
31.25	-33.36	-47.54	-55.91	-46.16	-47.53	-62.54	-67.83	-55.35	-61.96	-74.82	-46.08	-68.77	-79.88
62.5	-27.34	-41.30	-69.80	-71.28	-41.42	-54.27	-63.68	-64.63	-54.70	-43.20	-58.22	-61.64	-42.88
100.	-23.26	-37.21	-46.20	-45.53	-36.85	-50.14	-70.43	-44.95	-47.46	-45.99	-45.39	-67.07	-49.19
155.	-19.45	-42.47	-41.88	-37.21	-43.87	-56.36	-53.36	-43.35	-52.34	-45.20	-36.69	-52.86	-43.60
200.	-17.24	-33.80	-44.81	-31.55	-32.59	-45.48	-48.01	-52.61	-44.98	-37.29	-32.56	-44.95	-37.44
250.	-15.30	-35.12	-33.54	-30.04	-36.29	-48.04	-53.06	-34.43	-48.07	-31.74	-29.92	-45.96	-31.30
300.	-13.71	-37.20	-34.36	-28.91	-33.00	-51.09	-57.38	-37.84	-44.82	-31.06	-31.97	-51.38	-30.18
350.	-12.38	-35.26	-40.87	-28.58	-36.26	-42.63	-54.60	-43.45	-39.94	-29.63	-29.22	-43.81	-29.58
400.	-11.22	-28.81	-28.92	-27.14	-29.61	-40.05	-42.87	-31.19	-43.52	-32.69	-28.04	-38.78	-30.93
450.	-10.19	-40.33	-42.35	-27.14	-39.05	-34.93	-44.18	-38.94	-42.91	-30.09	-28.24	-47.60	-28.49
500.	-9.28	-26.72	-29.70	-33.91	-24.00	-33.43	-34.61	-31.33	-35.12	-31.90	-30.80	-40.35	-33.05
550.		-33.26	-25.74	-31.58	-31.27	-29.93	-38.25	-28.74	-37.68	-28.59	-24.72	-44.75	-33.01
600.		-27.70	-35.61	-24.93	-24.55	-28.35	-41.58	-36.08	-28.02	-34.28	-21.69	-34.58	-28.07
650.		-25.68	-30.28	-23.78	-23.02	-20.67	-40.64	-20.98	-24.28	-26.11	-19.70	-33.19	-21.26



PSFEXT - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

PSFEXT - Near End (dB)				
Freq (MHz)	45	12	36	78
1.	-72.71	-76.59	-77.37	-73.34
4.	-62.45	-66.81	-67.54	-63.29
8.	-59.58	-64.19	-64.08	-60.10
10.	-59.30	-64.45	-63.08	-59.75
16.	-61.96	-70.38	-62.49	-61.45
20.	-63.96	-70.44	-62.98	-64.15
25.	-59.09	-61.91	-63.81	-62.21
31.25	-53.80	-57.80	-64.85	-56.50
62.5	-56.03	-56.20	-57.64	-57.76
100.	-55.14	-55.88	-60.34	-63.04
155.	-59.19	-67.53	-65.08	-60.20
200.	-57.18	-60.45	-64.28	-59.36
250.	-59.10	-67.58	-61.27	-59.27
300.	-62.13	-67.96	-64.79	-63.21
350.	-65.36	-73.38	-66.92	-64.70
400.	-64.55	-70.35	-69.80	-67.39
450.	-70.66	-77.52	-73.24	-69.69
500.	-71.11	-70.36	-74.53	-75.69
550.	-73.93	-76.86	-74.85	-73.74
600.	-74.70	-75.57	-78.32	-73.52
650.	-75.44	-74.31	-73.33	-72.82



PSACRF (PSELFEXT) - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

PSACRF (PSELFEXT) - Near End (dB)					
Freq (MHz)	Limit	45	12	36	78
1.	-59.51	-70.69	-74.61	-75.45	-71.37
4.	-48.25	-58.56	-63.01	-63.69	-59.47
8.	-42.20	-54.23	-58.95	-58.74	-54.83
10.	-40.26	-53.34	-58.63	-57.13	-53.90
16.	-36.18	-54.48	-63.05	-55.01	-54.07
20.	-34.24	-55.64	-62.28	-54.65	-55.96
25.	-32.30	-49.77	-52.79	-54.47	-53.04
31.25	-30.36	-43.36	-47.57	-54.38	-46.22
62.5	-24.34	-41.00	-41.46	-42.57	-42.99
100.	-20.26	-35.91	-36.94	-41.01	-43.98
155.	-16.45	-34.80	-43.49	-40.56	-36.16
200.	-14.24	-28.97	-32.69	-35.97	-31.59
250.	-12.30	-27.43	-36.24	-29.30	-27.90
300.	-10.71	-27.07	-33.29	-29.39	-28.56
350.	-9.38	-27.05	-35.58	-28.40	-26.88
400.	-8.22	-23.26	-29.41	-28.08	-26.54
450.	-7.19	-26.58	-33.88	-28.55	-25.82
500.	-6.28	-23.94	-23.84	-27.08	-29.11
550.		-24.31	-27.66	-24.76	-24.40
600.		-21.56	-23.79	-25.45	-21.61
650.		-20.02	-20.09	-17.51	-18.62



Return Loss - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

Return Loss - Near End (dB)					
Freq (MHz)	Limit	45	12	36	78
1.	-19.00	-28.30	-25.61	-28.26	-26.19
4.	-19.00	-47.27	-64.32	-37.79	-33.57
8.	-19.00	-54.91	-31.25	-32.84	-27.01
10.	-18.96	-41.58	-45.45	-38.47	-30.26
16.	-17.98	-48.61	-36.26	-51.66	-32.55
20.	-17.49	-49.80	-62.75	-62.69	-52.95
25.	-17.01	-49.16	-58.87	-53.40	-37.97
31.25	-16.53	-43.50	-37.92	-38.41	-29.26
62.5	-14.04	-32.39	-25.64	-38.24	-28.96
100.	-12.00	-39.29	-39.24	-42.82	-52.17
155.	-10.10	-32.40	-28.84	-32.17	-37.39
200.	-8.99	-33.37	-24.26	-39.87	-28.41
250.	-8.02	-45.81	-25.83	-34.69	-30.32
300.	-7.23	-27.81	-25.32	-41.54	-35.98
350.	-6.56	-27.04	-40.25	-45.66	-55.29
400.	-6.00	-22.00	-27.95	-31.17	-49.24
450.	-6.00	-42.87	-29.36	-31.50	-31.25
500.	-6.00	-23.94	-40.89	-25.61	-55.07
550.		-23.85	-24.46	-33.84	-23.26
600.		-12.76	-32.13	-34.82	-18.17
650.		-16.37	-21.71	-83.77	-23.98



Return Loss - Far End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

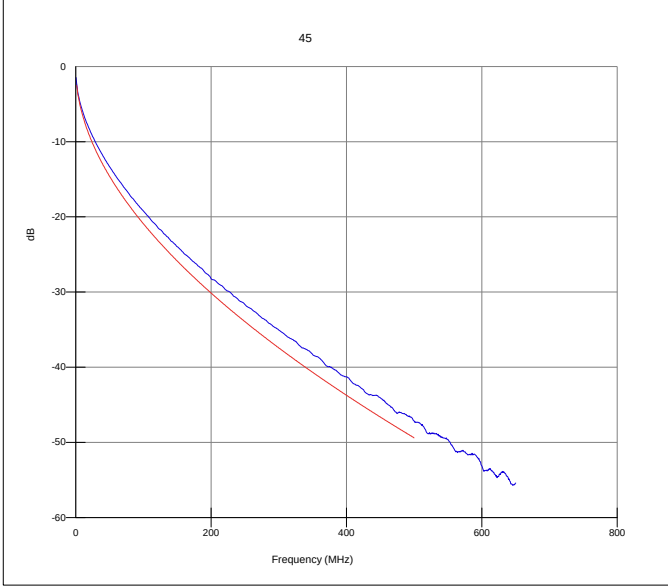
Return Loss - Far End (dB)					
Freq (MHz)	Limit	45	12	36	78
1.	-19.00	-29.43	-31.87	-28.25	-26.11
4.	-19.00	-46.12	-35.79	-39.84	-34.32
8.	-19.00	-39.88	-34.16	-40.39	-26.94
10.	-18.96	-62.35	-33.68	-40.84	-32.12
16.	-17.98	-58.61	-40.47	-52.72	-31.18
20.	-17.49	-40.73	-31.73	-35.88	-38.37
25.	-17.01	-37.36	-29.29	-37.95	-39.14
31.25	-16.53	-30.68	-28.13	-29.77	-36.22
62.5	-14.04	-48.62	-22.58	-37.23	-34.86
100.	-12.00	-31.44	-23.42	-28.64	-46.63
155.	-10.10	-33.67	-31.00	-33.28	-30.18
200.	-8.99	-24.11	-30.49	-23.19	-25.95
250.	-8.02	-35.88	-40.08	-29.72	-31.97
300.	-7.23	-30.84	-44.41	-24.82	-27.47
350.	-6.56	-24.22	-30.06	-48.21	-29.67
400.	-6.00	-27.80	-28.22	-36.20	-49.55
450.	-6.00	-31.24	-39.42	-48.96	-34.78
500.	-6.00	-19.64	-24.41	-25.21	-32.50
550.		-36.96	-27.22	-24.82	-33.26
600.		-16.18	-29.68	-29.65	-25.76
650.		-33.46	-30.48	-27.11	-20.92



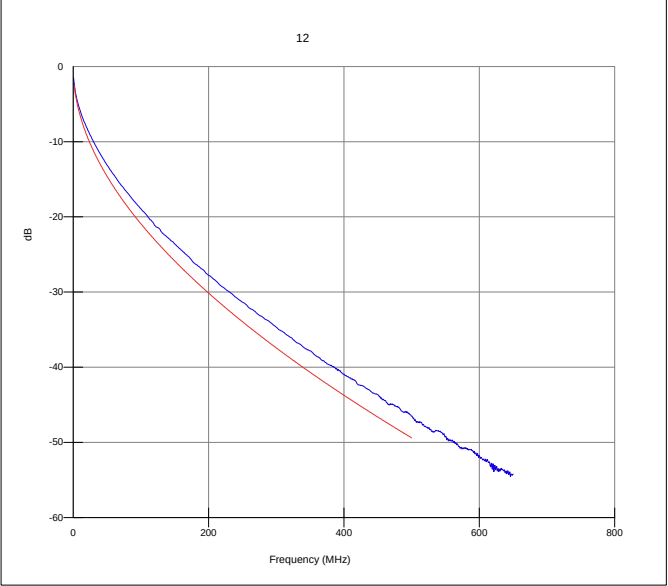
Insertion Loss

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

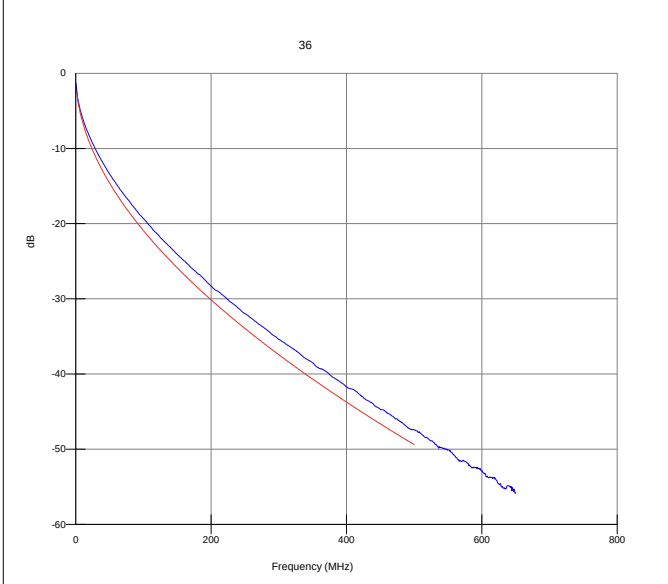
Limit Margin : 0.179 dB @ 1.312 MHz



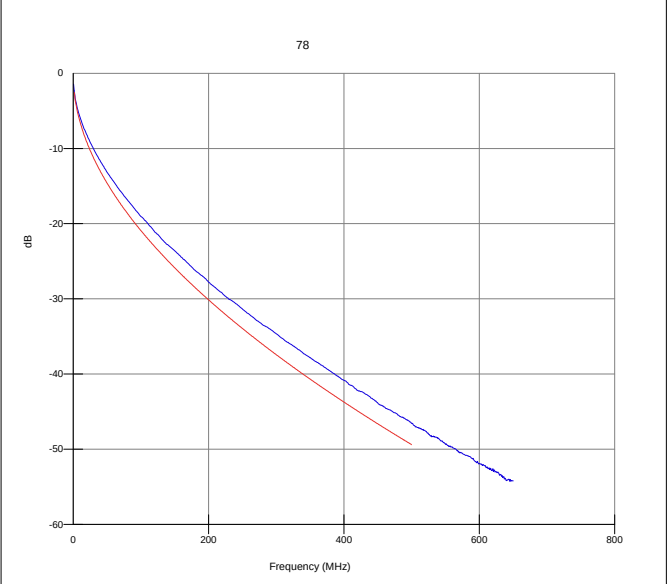
Limit Margin : 0.225 dB @ 1.312 MHz



Limit Margin : 0.280 dB @ 2.124 MHz



Limit Margin : 0.227 dB @ 1.312 MHz

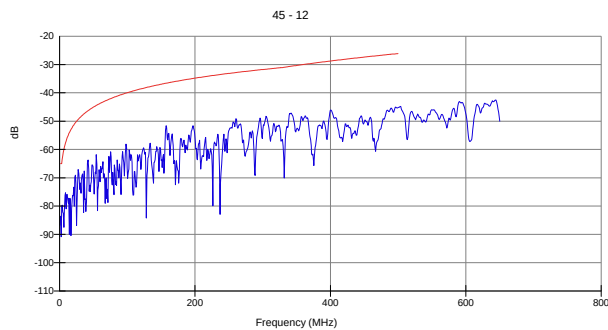




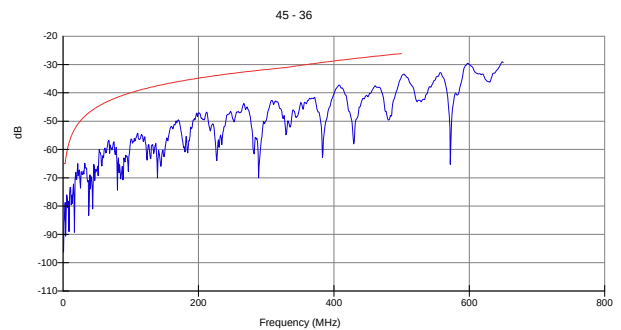
NEXT - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

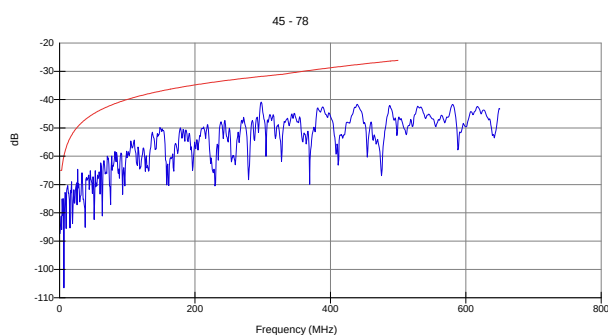
Limit Margin : 15.066 dB @ 157.192 MHz



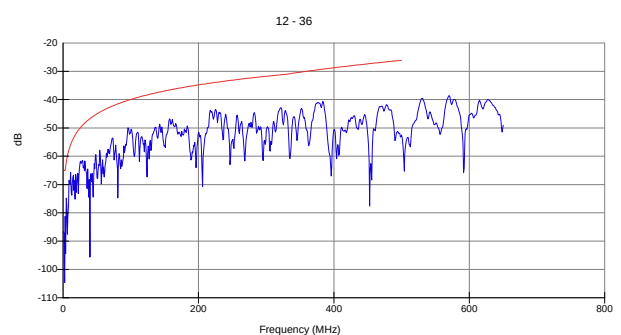
Limit Margin : 8.067 dB @ 499.803 MHz



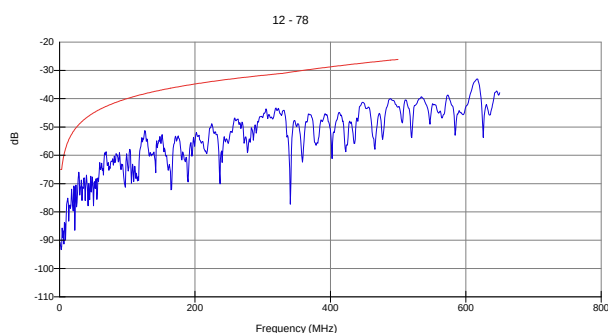
Limit Margin : 9.067 dB @ 297.646 MHz



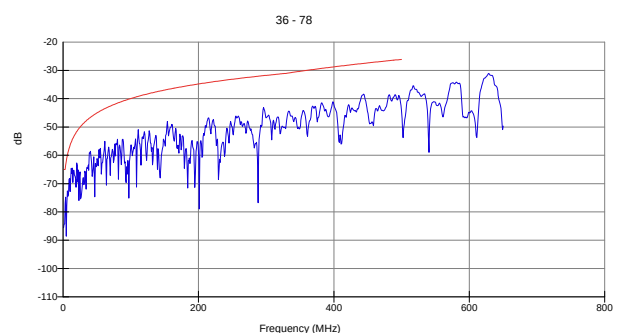
Limit Margin : 9.554 dB @ 217.271 MHz



Limit Margin : 11.977 dB @ 304.953 MHz



Limit Margin : 9.264 dB @ 11.866 MHz

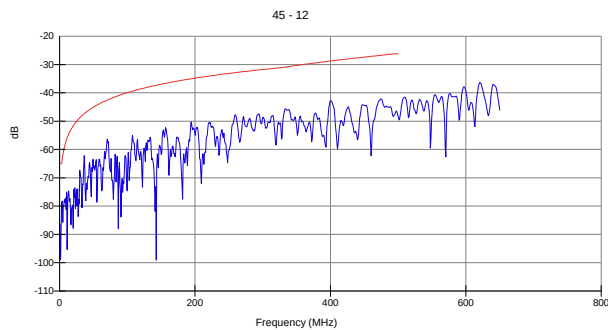




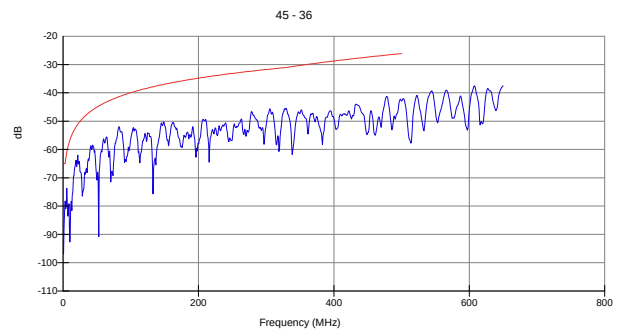
NEXT - Far End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

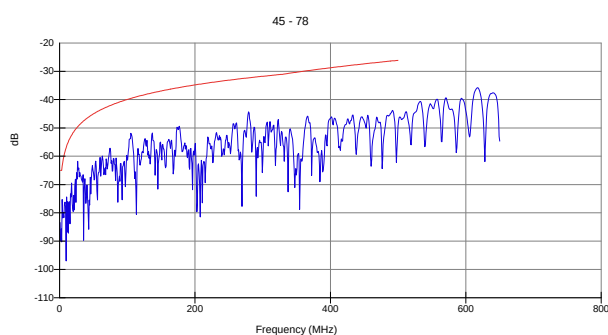
Limit Margin : 13.814 dB @ 2.936 MHz



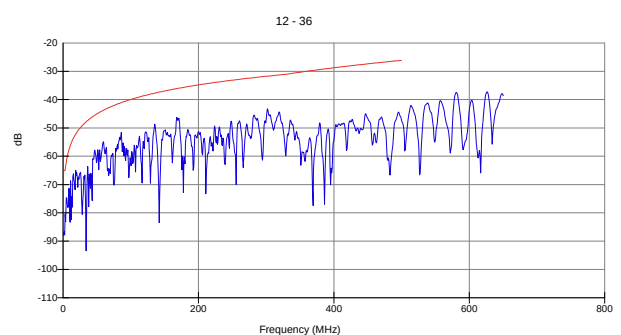
Limit Margin : 10.601 dB @ 82.499 MHz



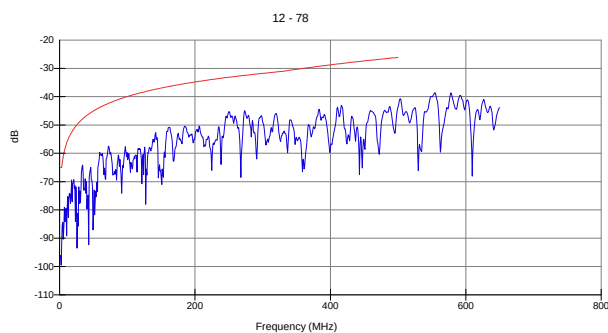
Limit Margin : 11.769 dB @ 3.748 MHz



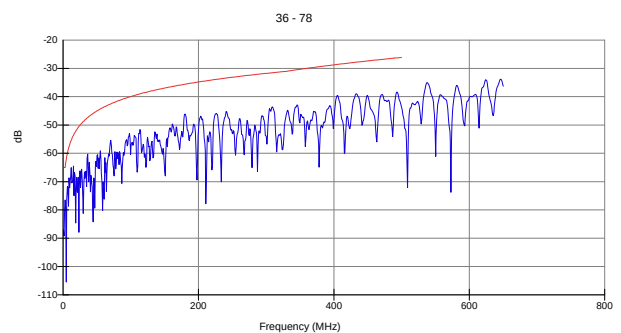
Limit Margin : 10.166 dB @ 167.746 MHz



Limit Margin : 12.139 dB @ 250.558 MHz



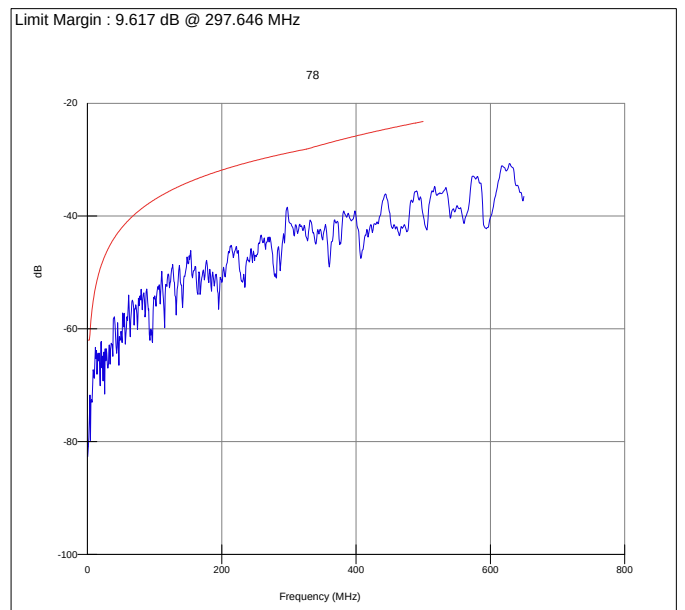
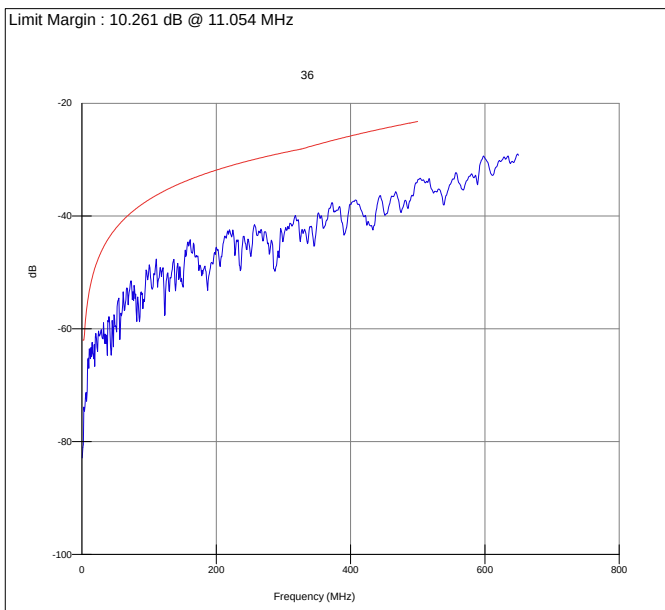
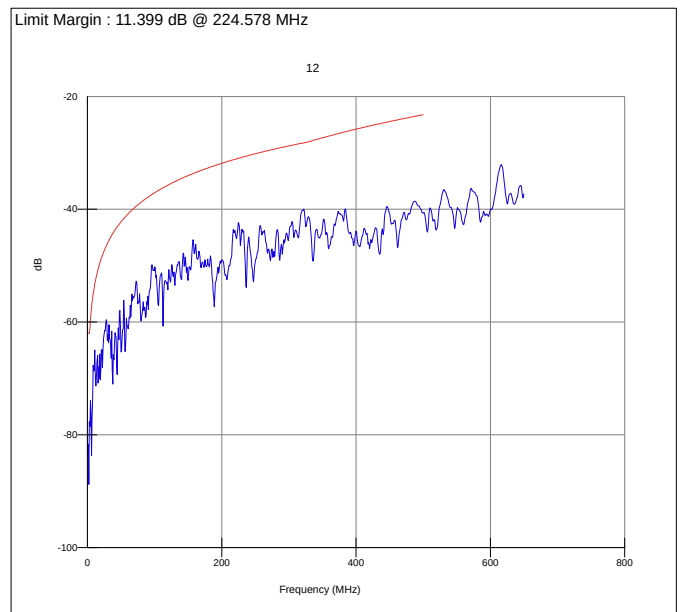
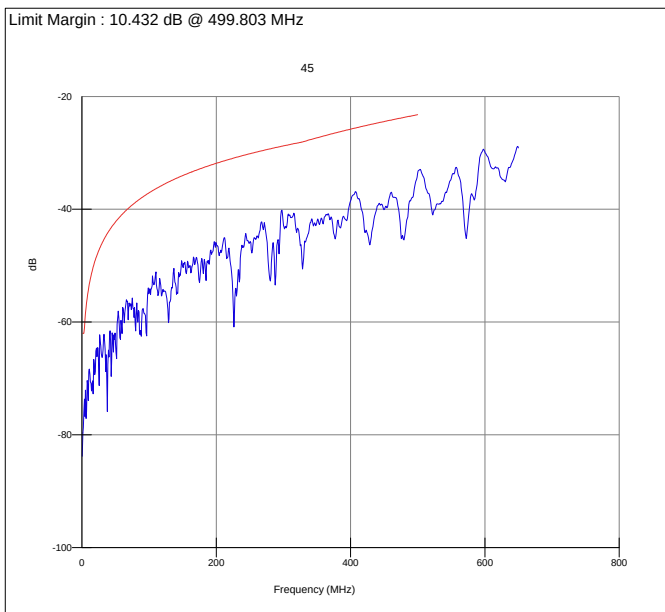
Limit Margin : 9.668 dB @ 11.866 MHz





PSNEXT - Near End

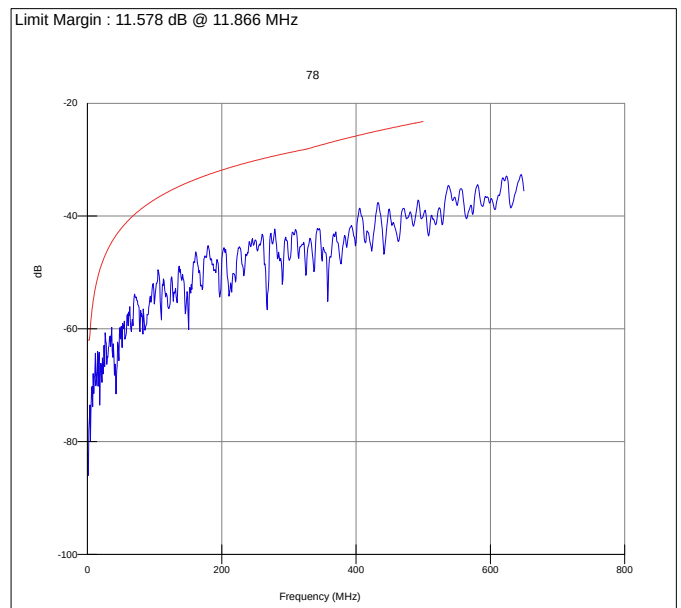
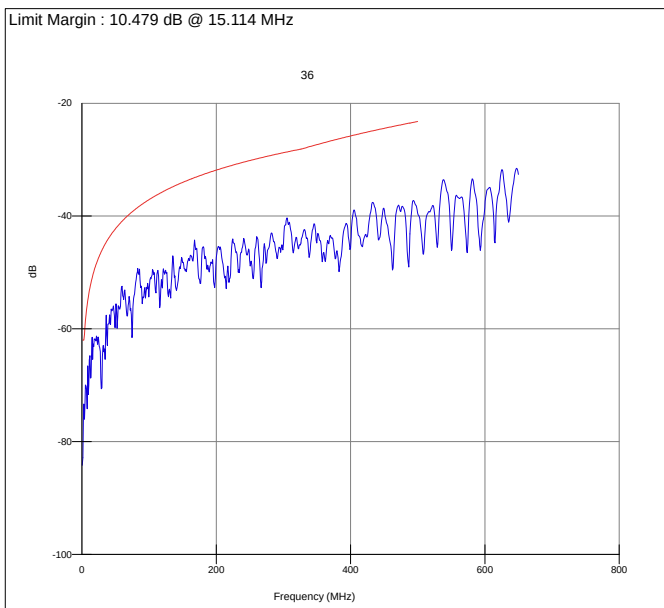
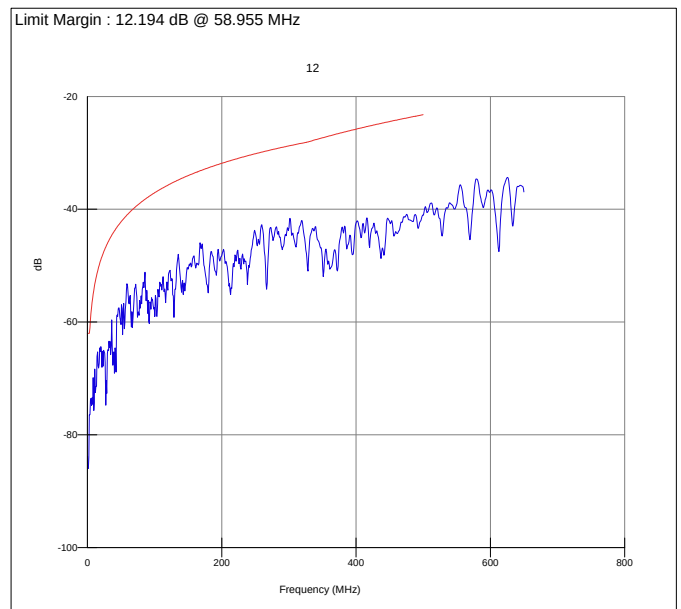
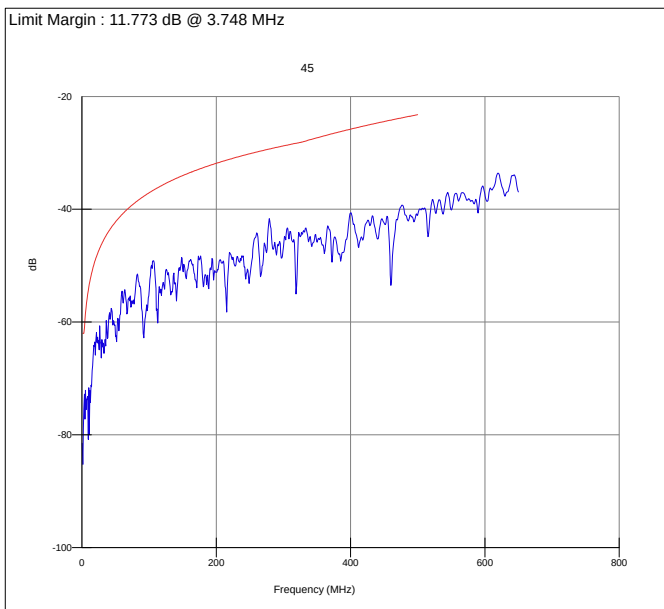
Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies





PSNEXT - Far End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

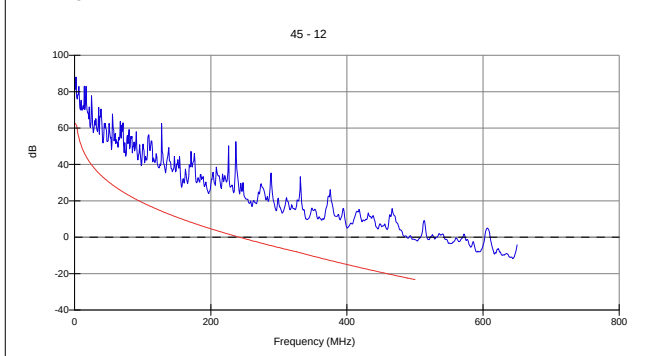




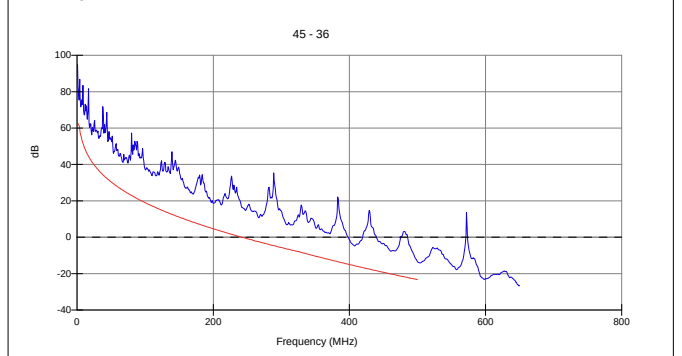
ACR - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

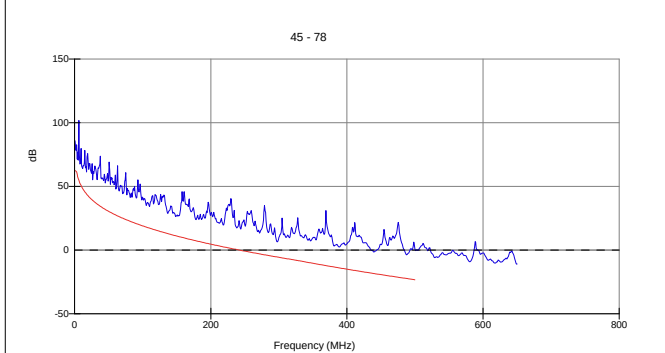
Limit Margin : 15.852 dB @ 2.936 MHz



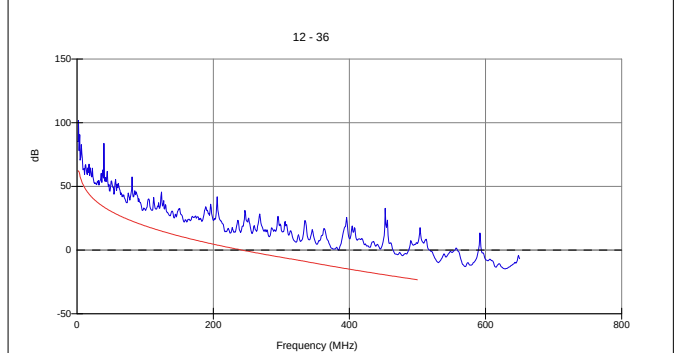
Limit Margin : 10.010 dB @ 499.803 MHz



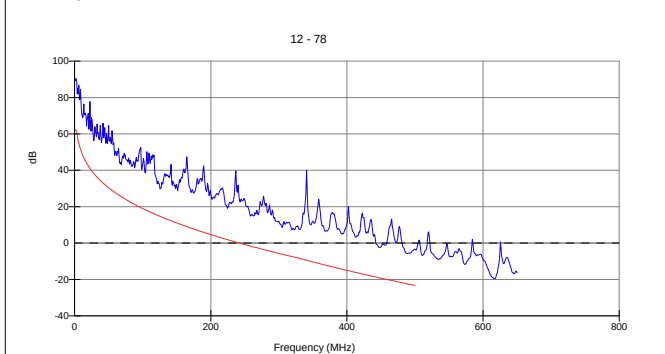
Limit Margin : 11.850 dB @ 297.646 MHz



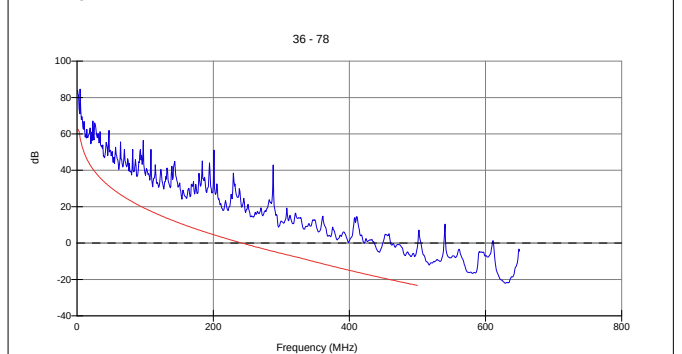
Limit Margin : 10.374 dB @ 11.054 MHz



Limit Margin : 14.733 dB @ 304.953 MHz



Limit Margin : 9.965 dB @ 11.866 MHz

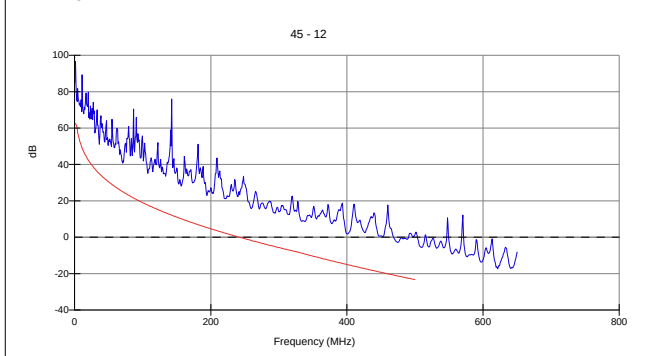




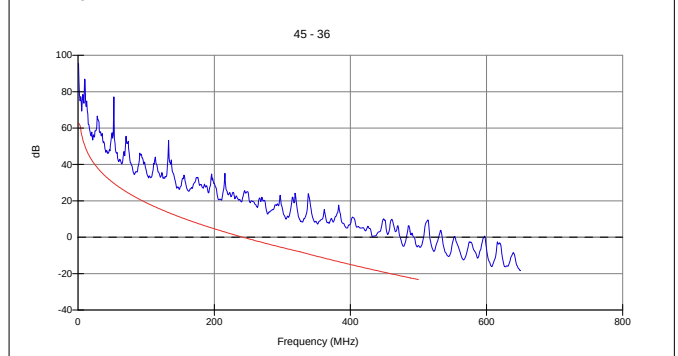
ACR - Far End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

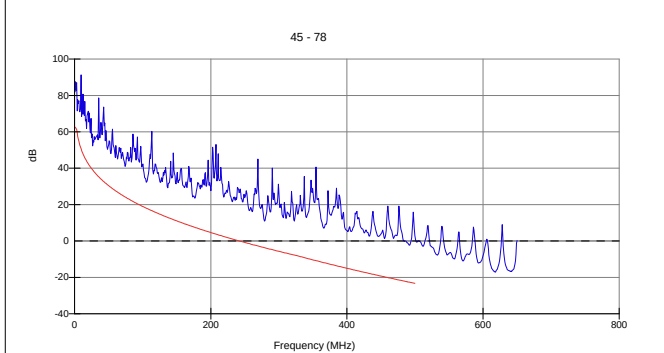
Limit Margin : 14.147 dB @ 2.936 MHz



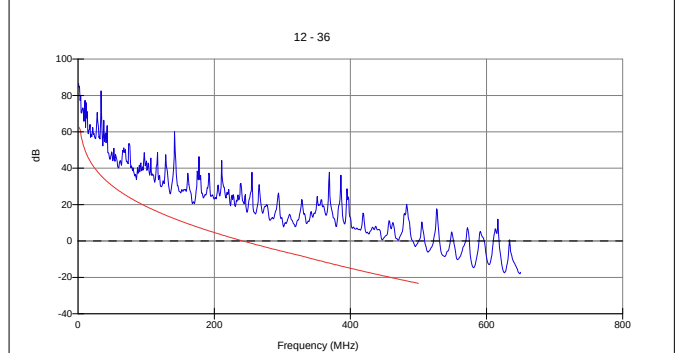
Limit Margin : 11.833 dB @ 21.609 MHz



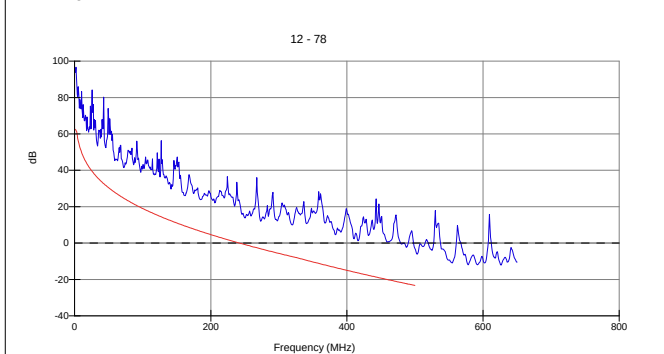
Limit Margin : 12.093 dB @ 3.748 MHz



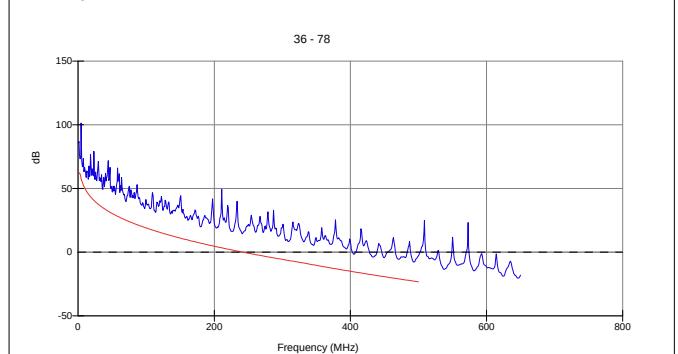
Limit Margin : 11.988 dB @ 167.746 MHz



Limit Margin : 14.716 dB @ 250.558 MHz



Limit Margin : 10.377 dB @ 11.866 MHz

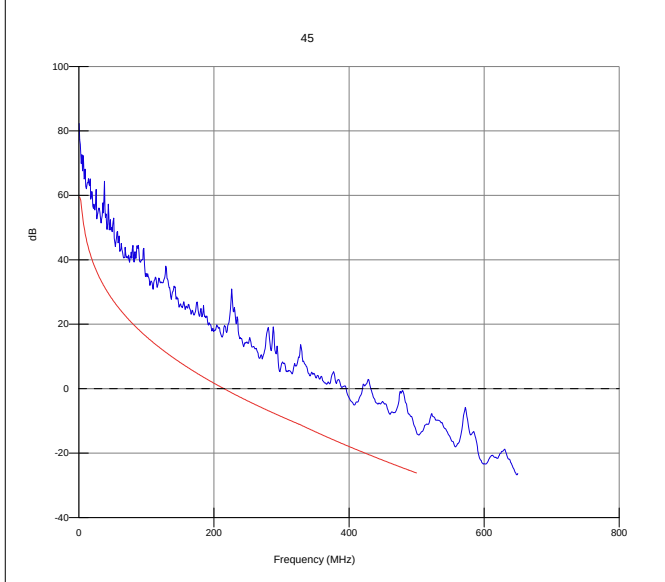




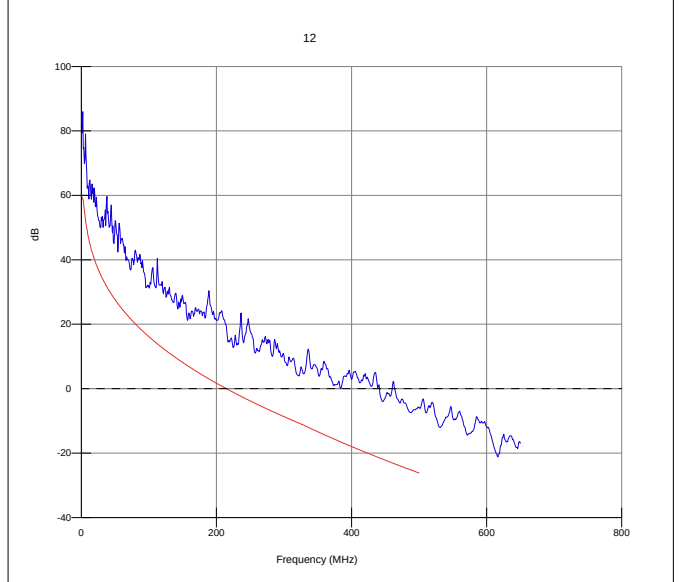
PSACR - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

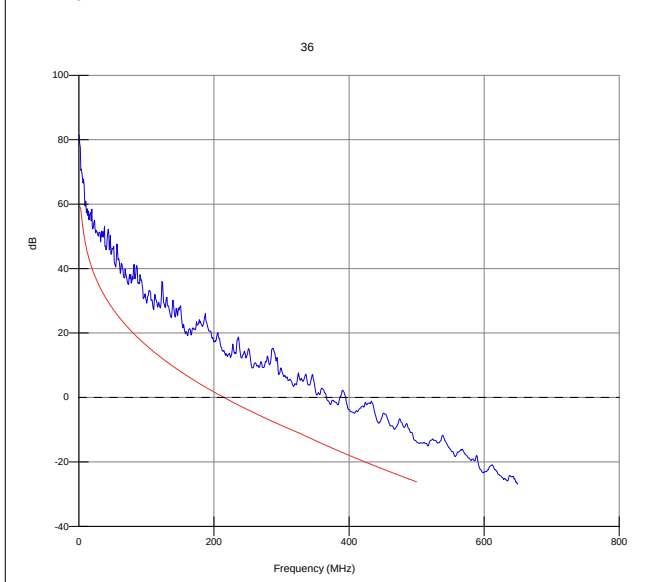
Limit Margin : 12.687 dB @ 499.803 MHz



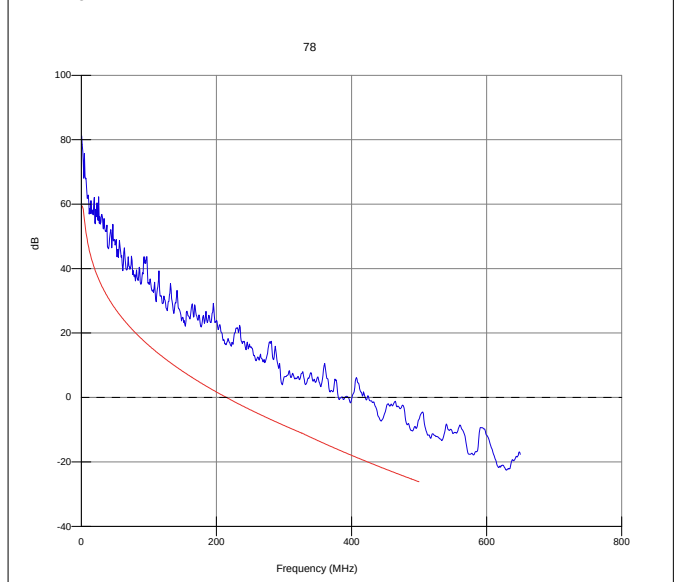
Limit Margin : 12.384 dB @ 11.054 MHz



Limit Margin : 10.823 dB @ 11.054 MHz



Limit Margin : 11.049 dB @ 3.748 MHz

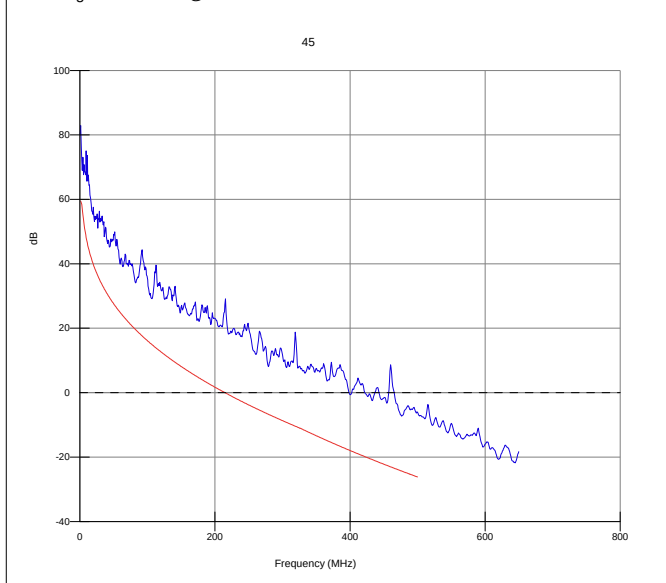




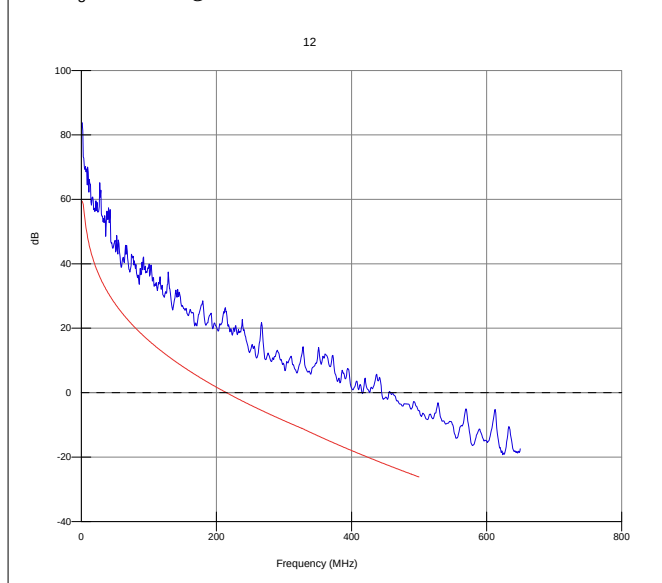
PSACR - Far End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

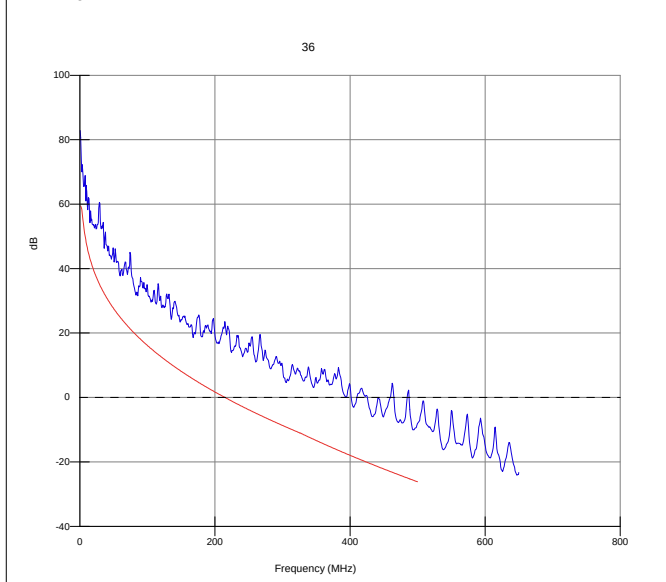
Limit Margin : 12.020 dB @ 3.748 MHz



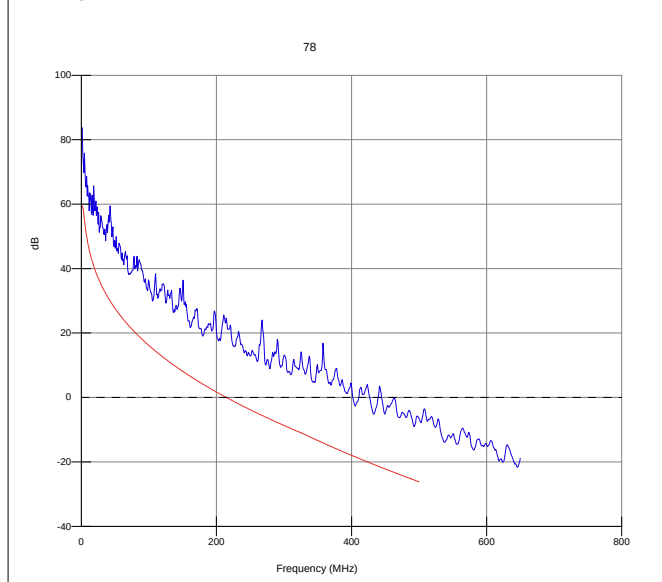
Limit Margin : 13.812 dB @ 58.955 MHz



Limit Margin : 11.167 dB @ 15.114 MHz



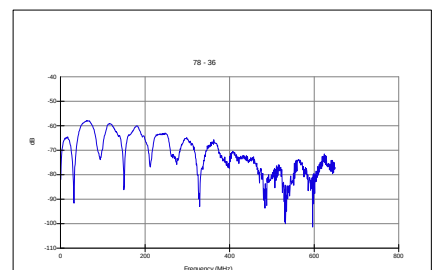
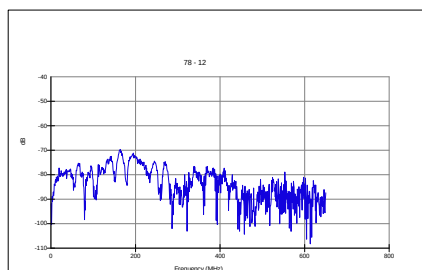
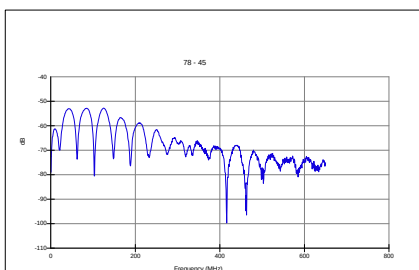
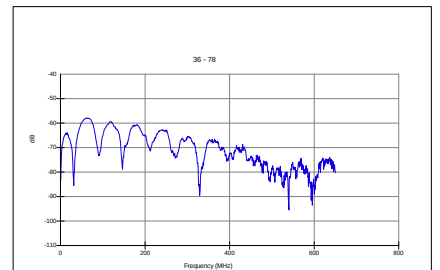
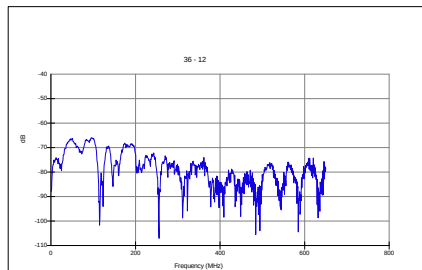
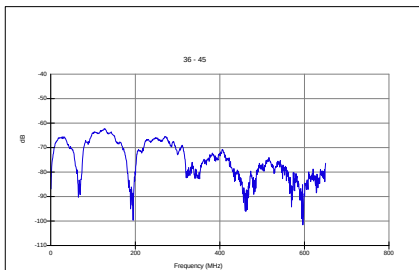
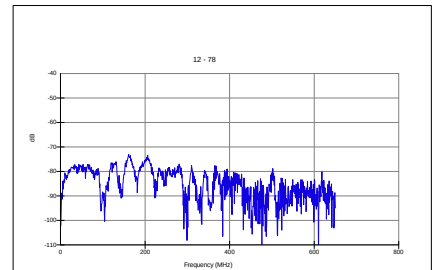
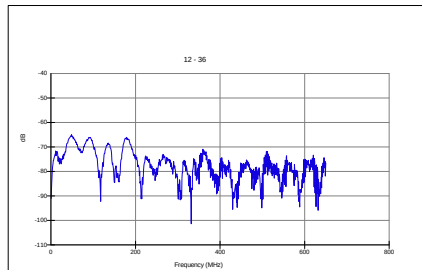
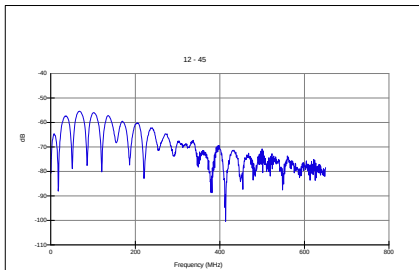
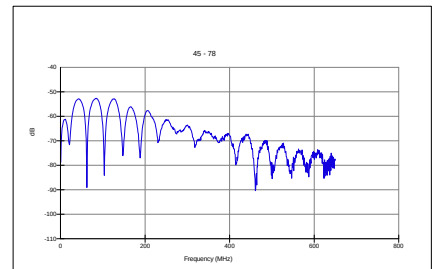
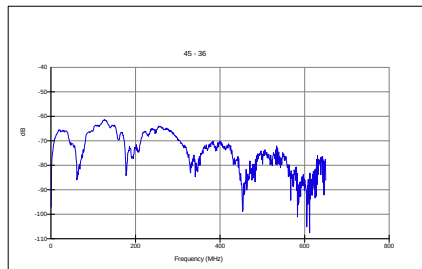
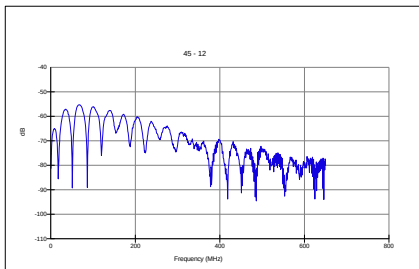
Limit Margin : 12.287 dB @ 11.866 MHz





FEXT - Near End

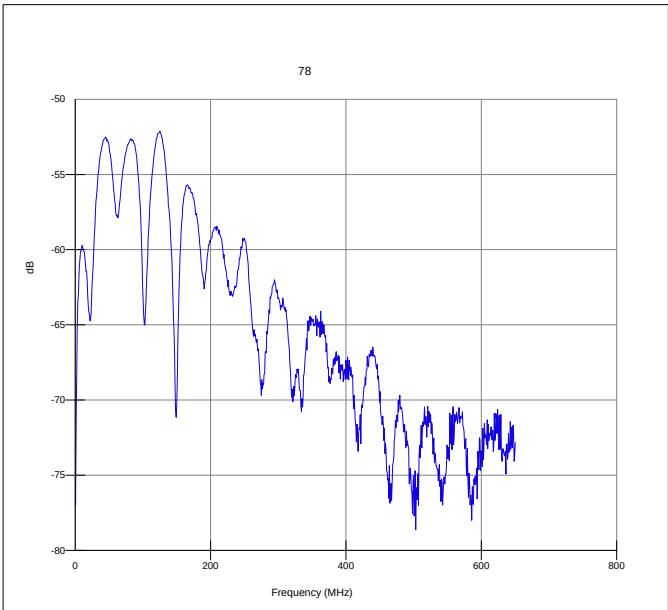
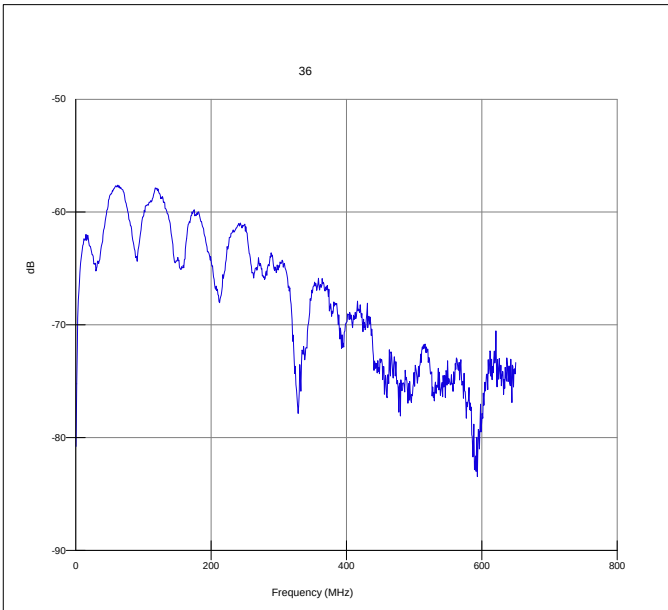
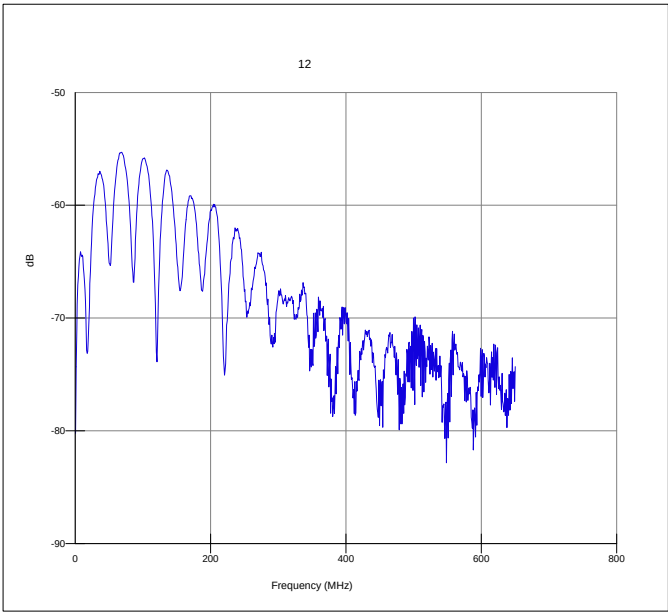
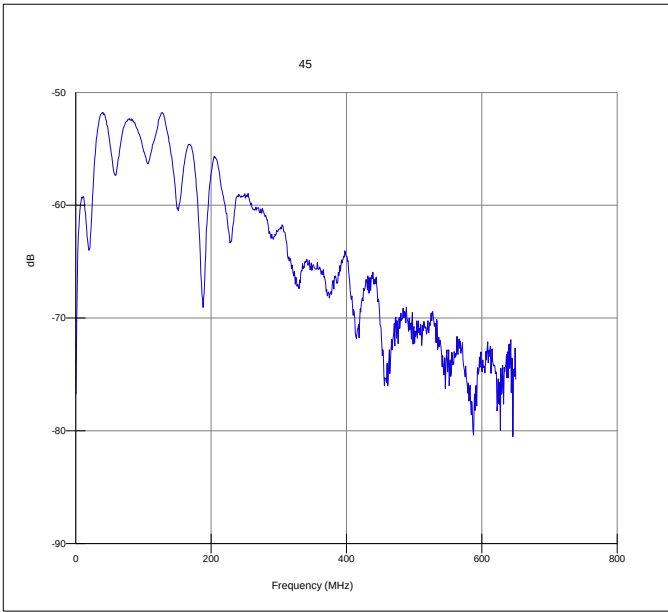
Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies





PSFEXT - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

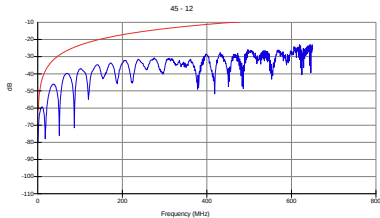




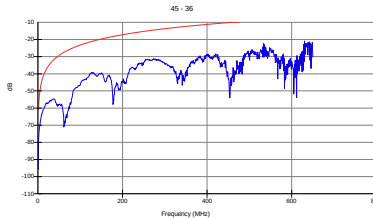
ACRF (ELFEXT) - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

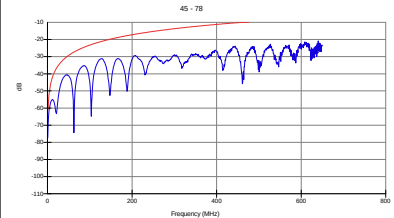
Limit Margin : 12.258 dB @ 2.936 MHz



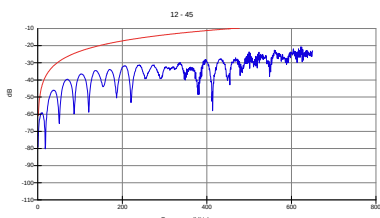
Limit Margin : 16.513 dB @ 259.488 MHz



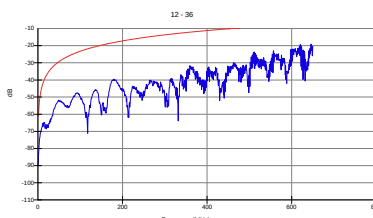
Limit Margin : 9.216 dB @ 3.748 MHz



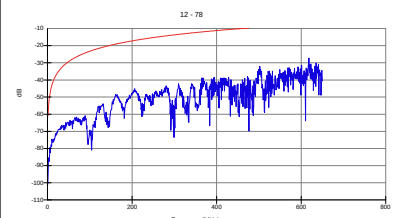
Limit Margin : 11.830 dB @ 3.748 MHz



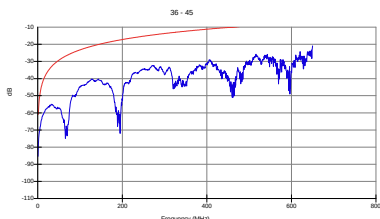
Limit Margin : 21.379 dB @ 178.301 MHz



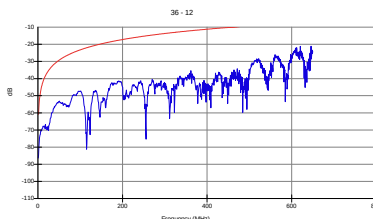
Limit Margin : 9.216 dB @ 3.748 MHz



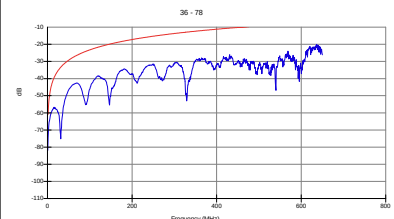
Limit Margin : 17.725 dB @ 270.043 MHz



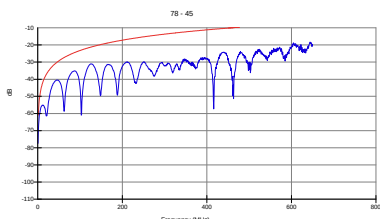
Limit Margin : 23.737 dB @ 191.291 MHz



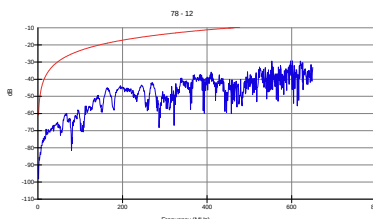
Limit Margin : 13.699 dB @ 3.748 MHz



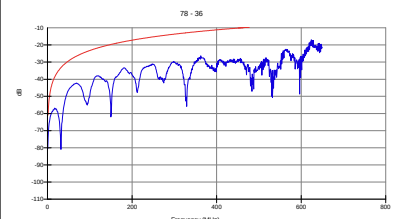
Limit Margin : 9.142 dB @ 3.748 MHz



Limit Margin : 25.961 dB @ 163.687 MHz



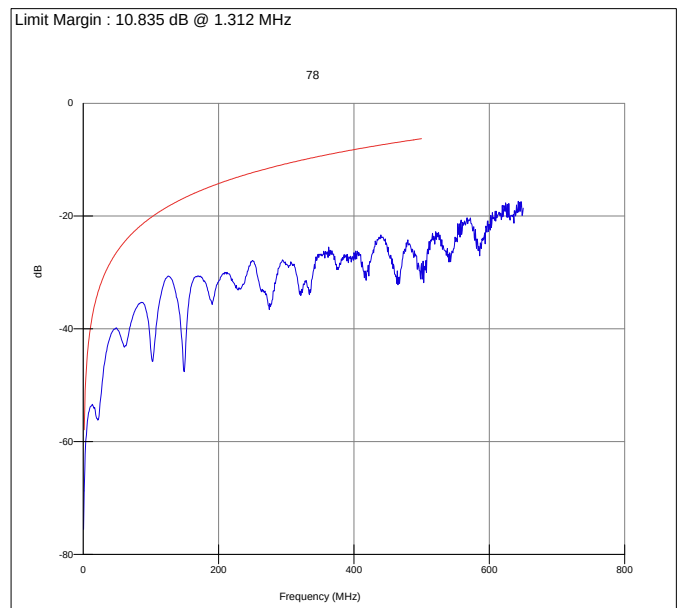
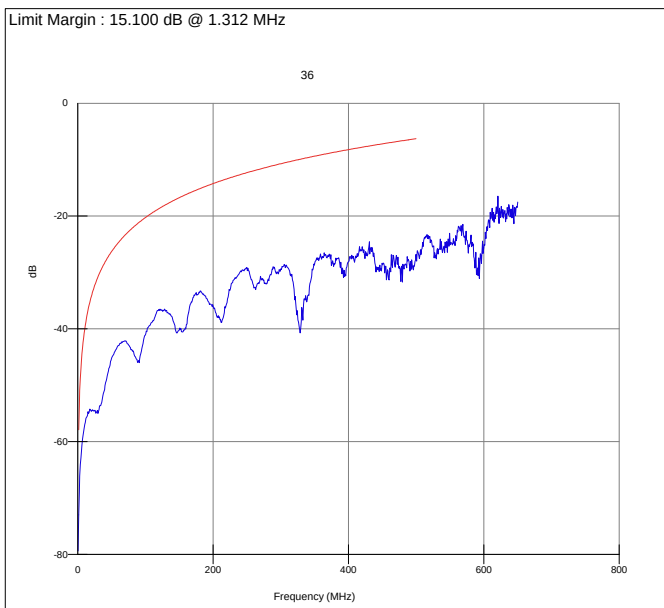
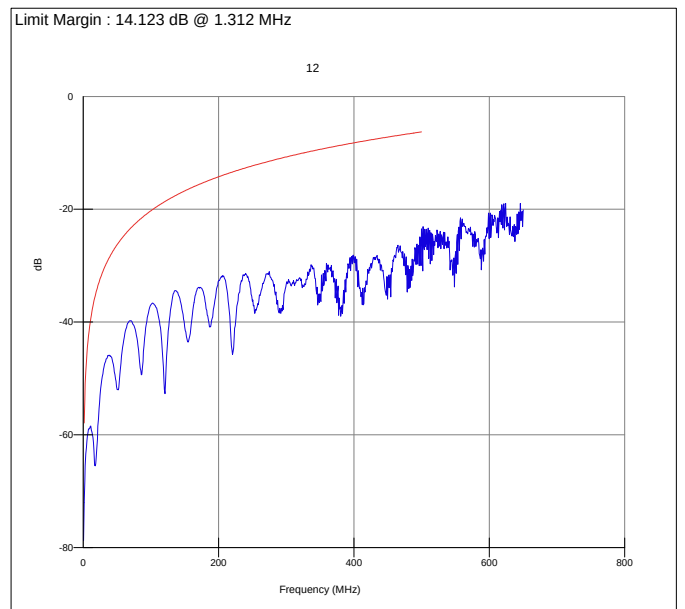
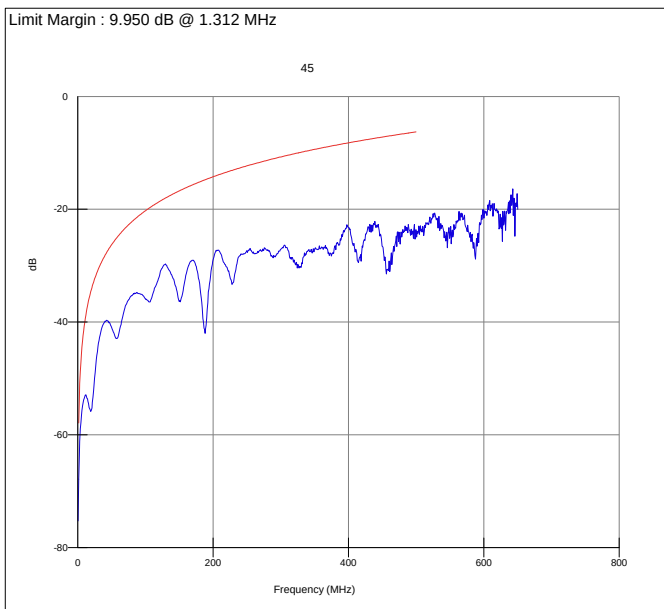
Limit Margin : 14.012 dB @ 3.748 MHz





PSACRF (PSELFEXT) - Near End

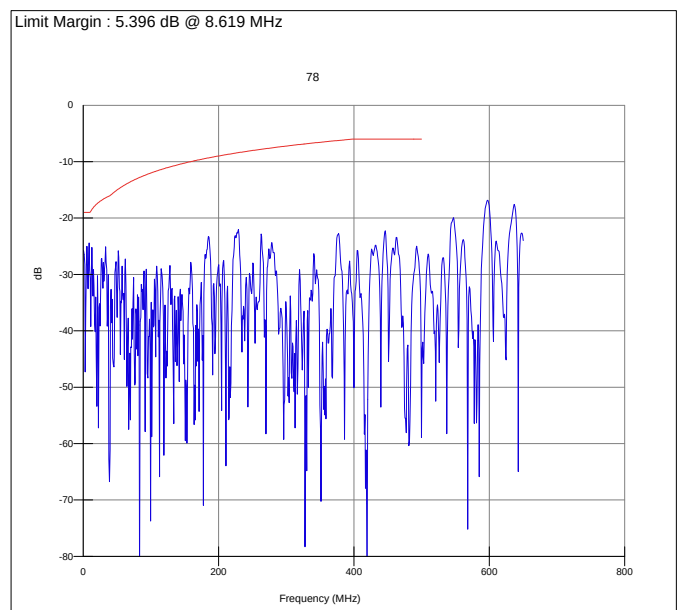
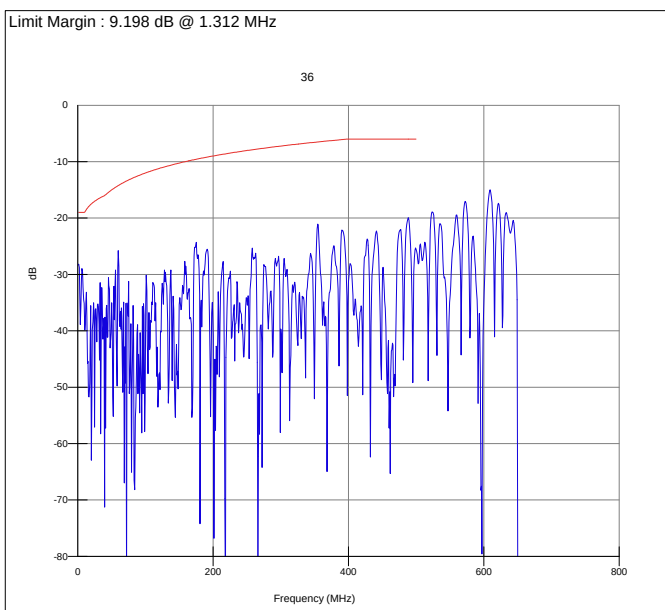
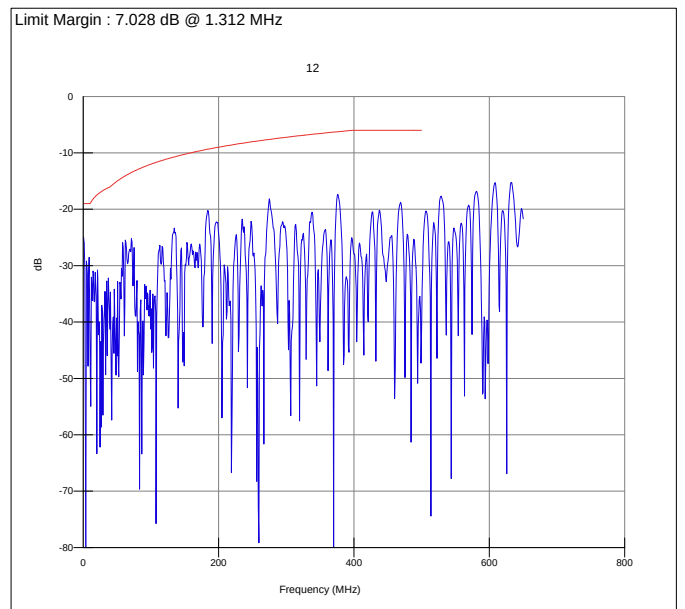
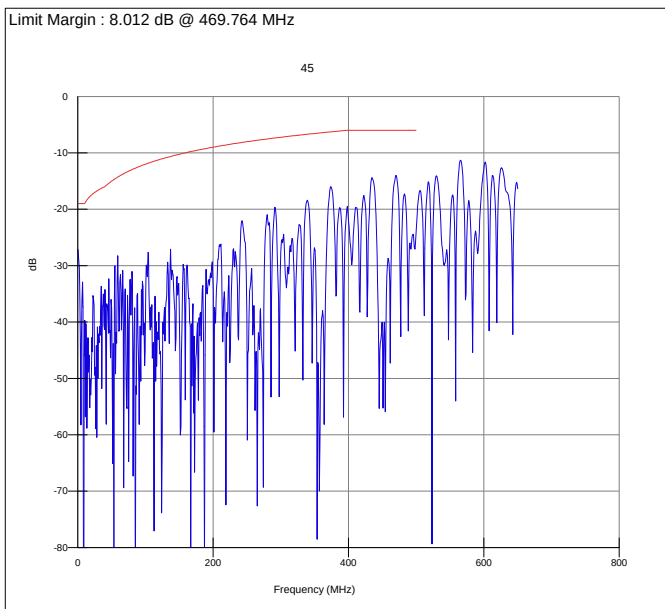
Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies





Return Loss - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

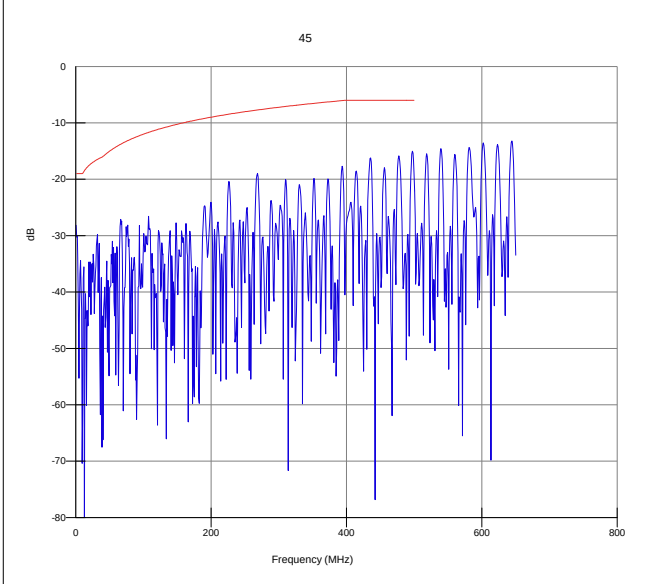




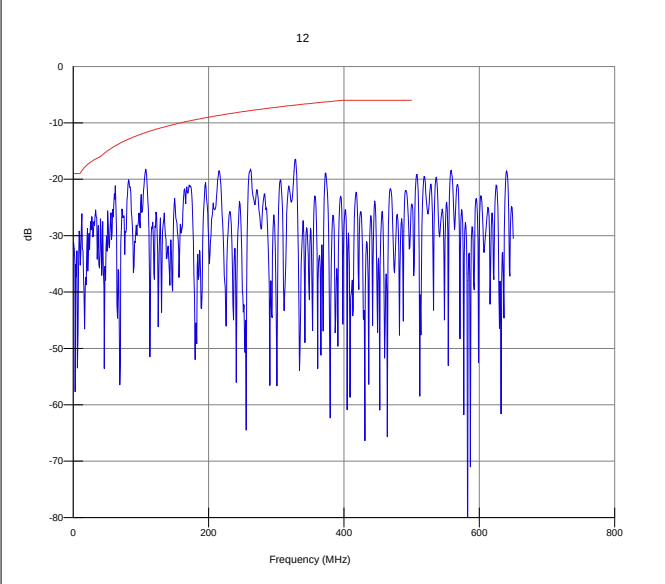
Return Loss - Far End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

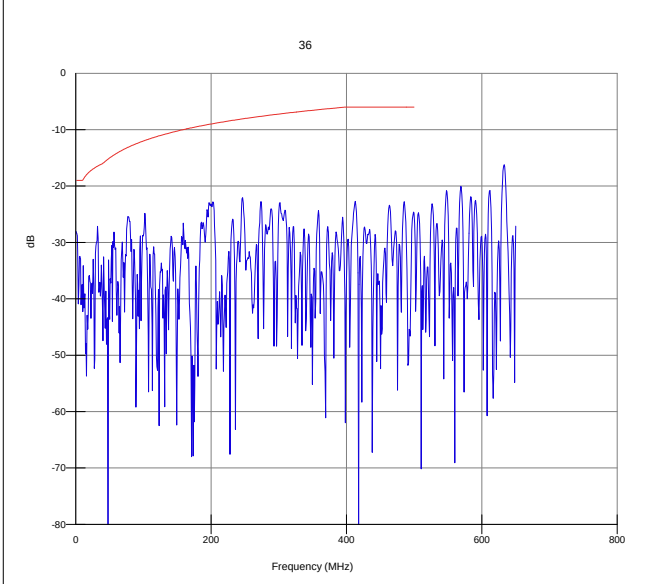
Limit Margin : 9.014 dB @ 497.368 MHz



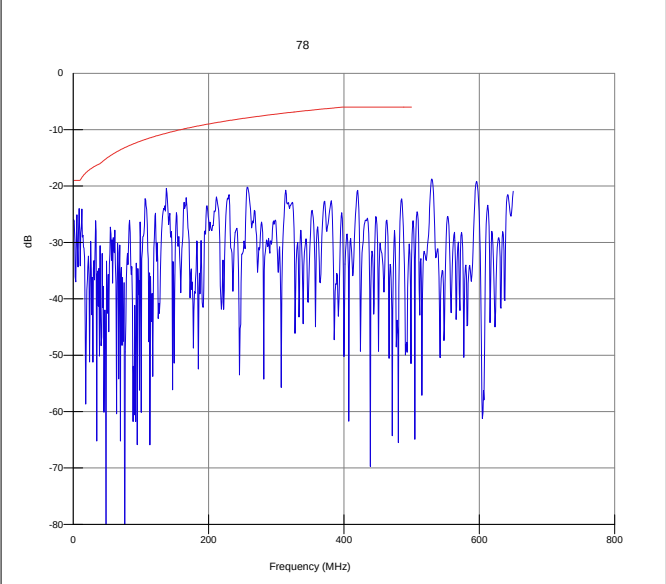
Limit Margin : 6.469 dB @ 106.856 MHz



Limit Margin : 9.375 dB @ 1.312 MHz



Limit Margin : 4.974 dB @ 8.619 MHz

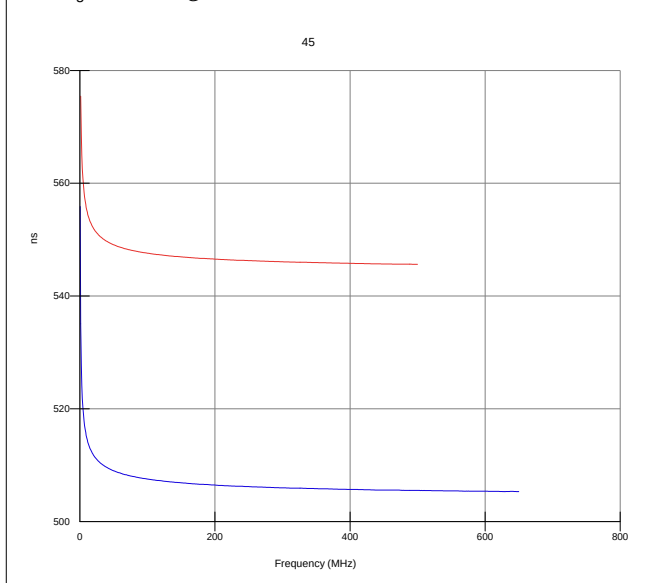




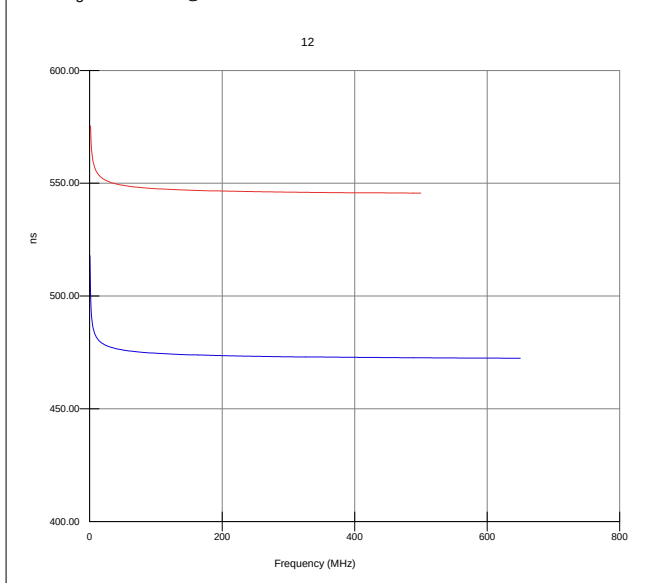
Propagation Delay - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies

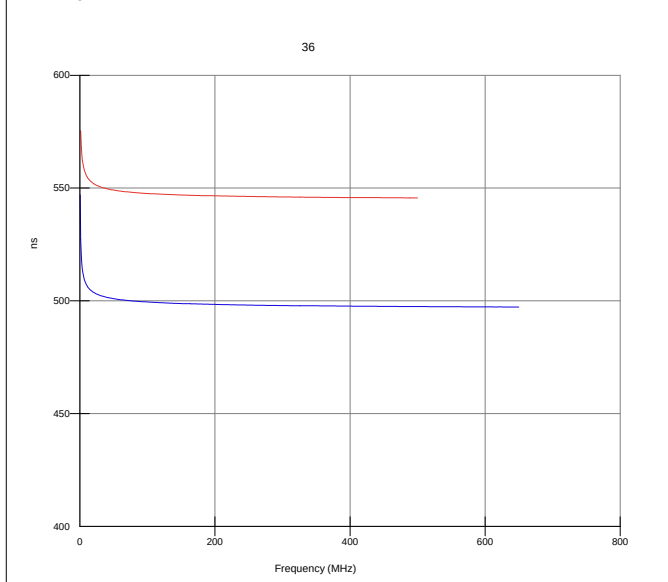
Limit Margin : 40.040 ns @ 79.252 MHz



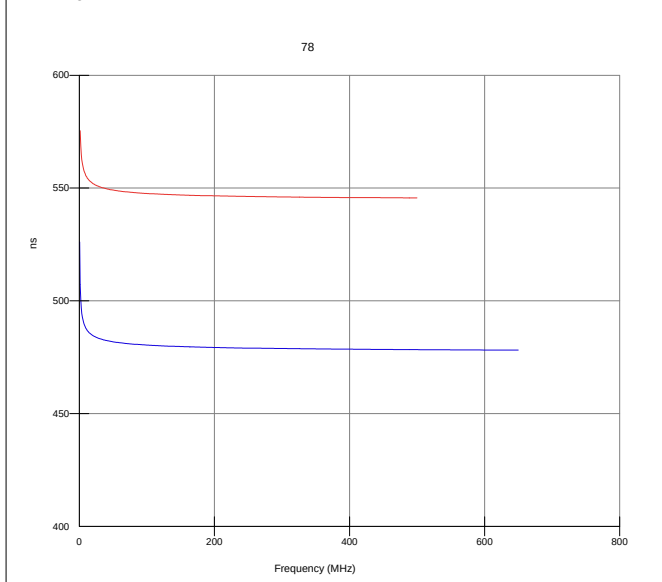
Limit Margin : 72.950 ns @ 118.222 MHz



Limit Margin : 48.110 ns @ 79.252 MHz



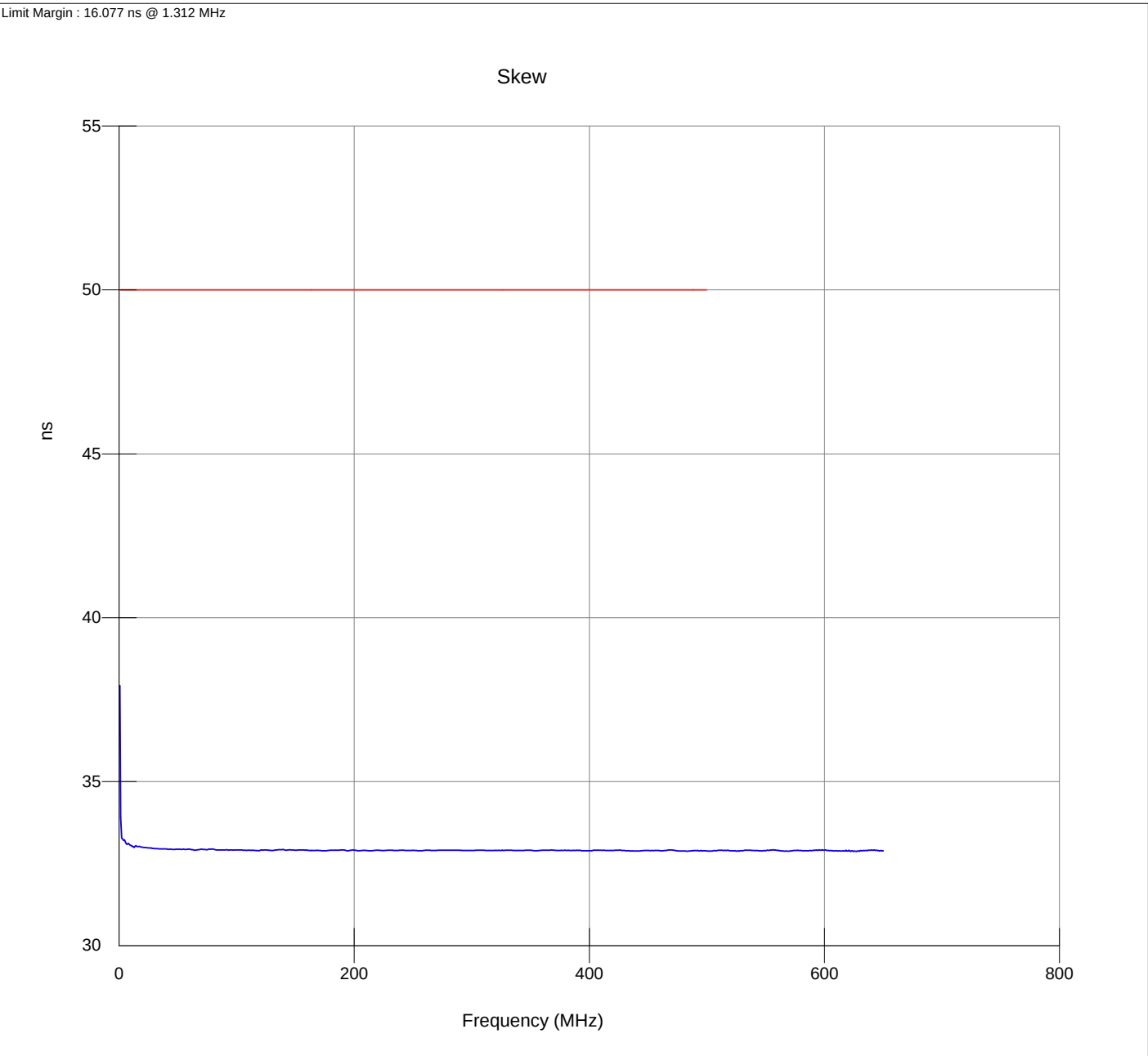
Limit Margin : 67.200 ns @ 110.103 MHz





Propagation Delay Skew - Near End

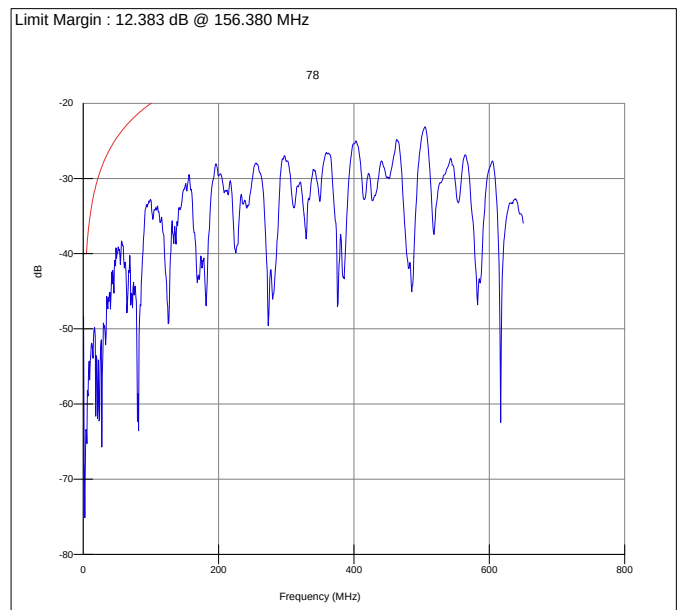
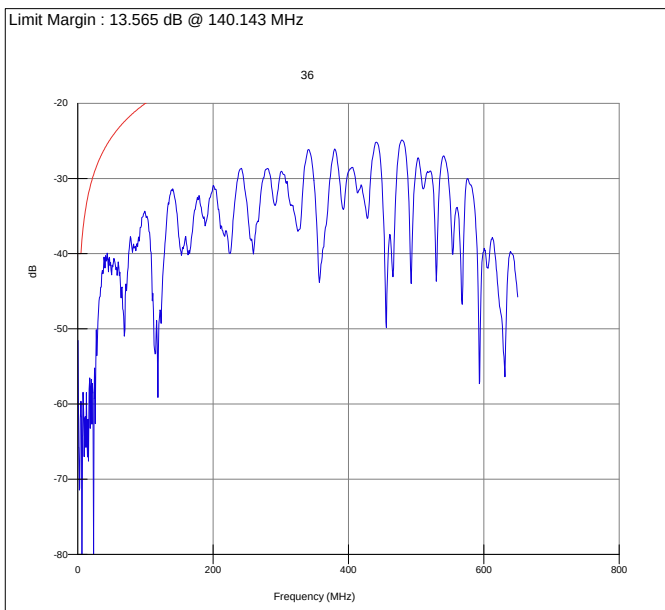
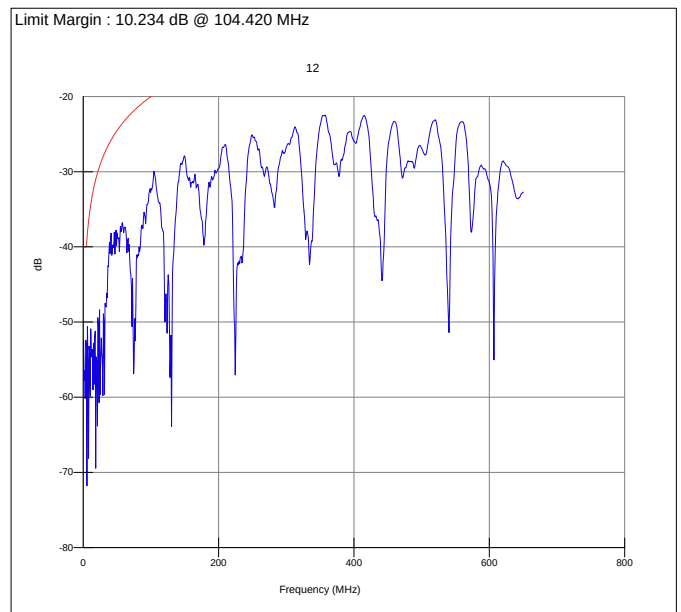
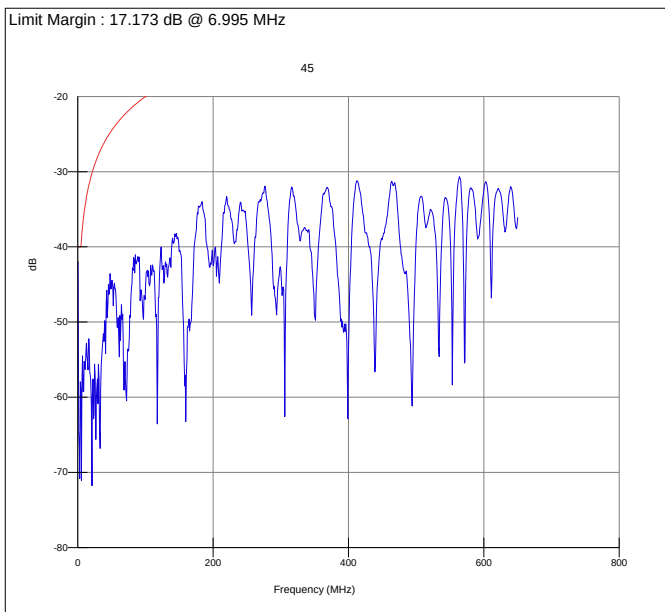
Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies





TCL - Near End

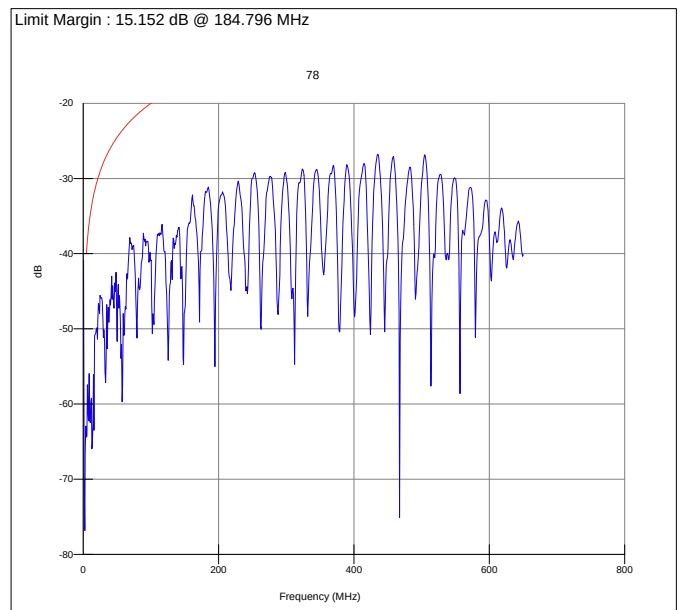
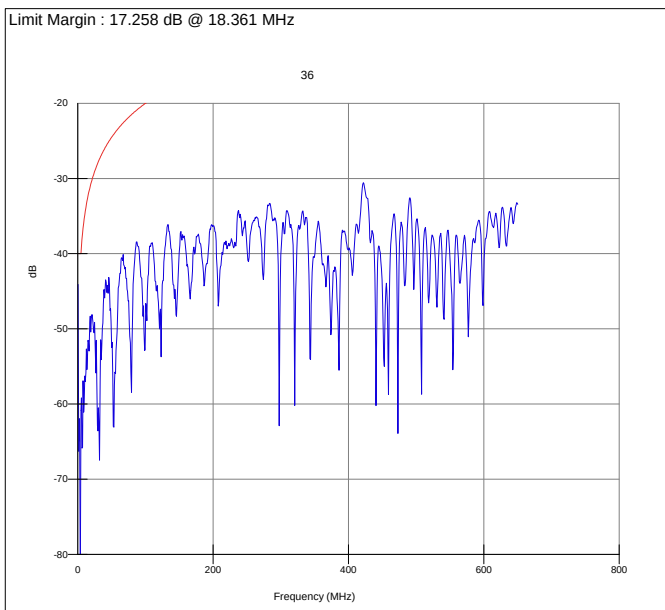
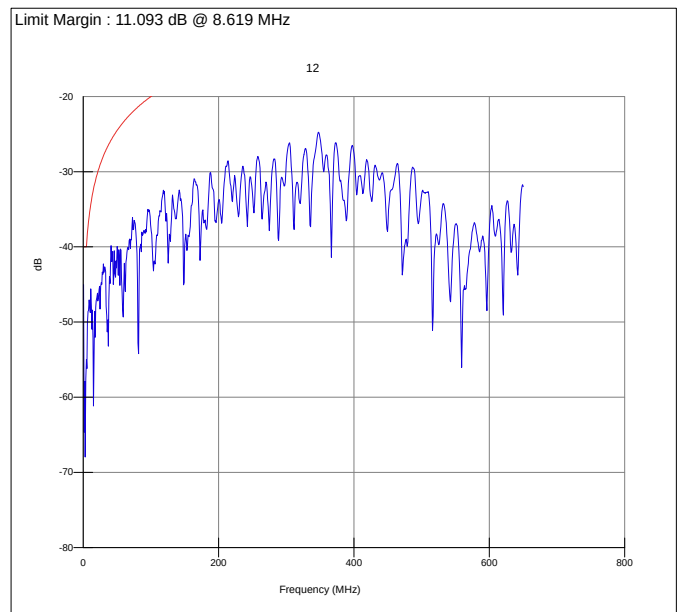
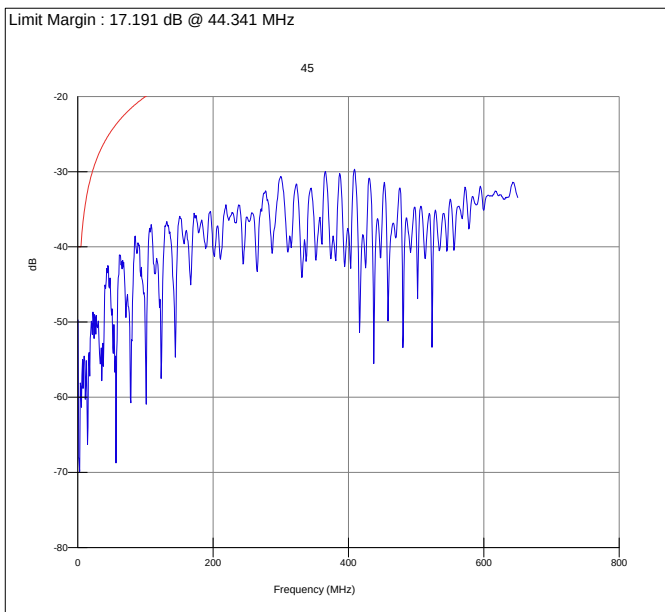
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Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies





TCL - Far End

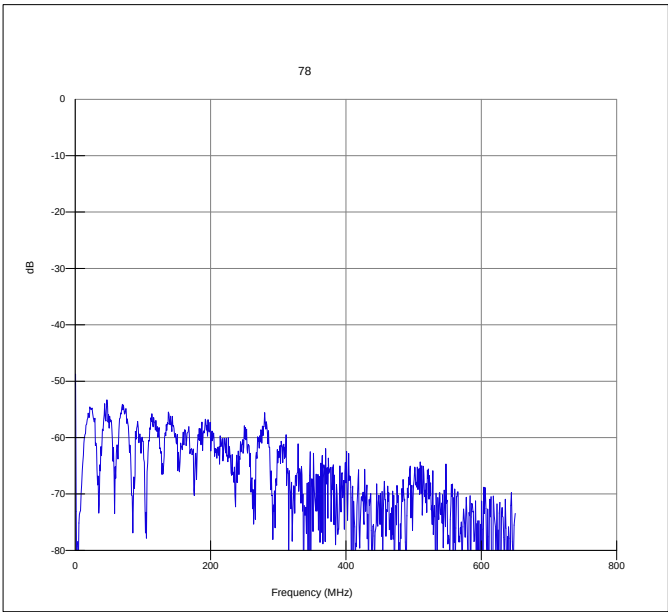
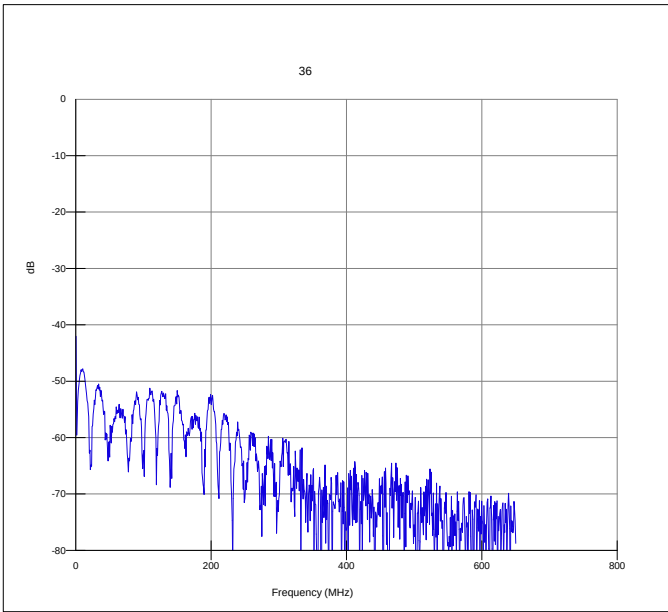
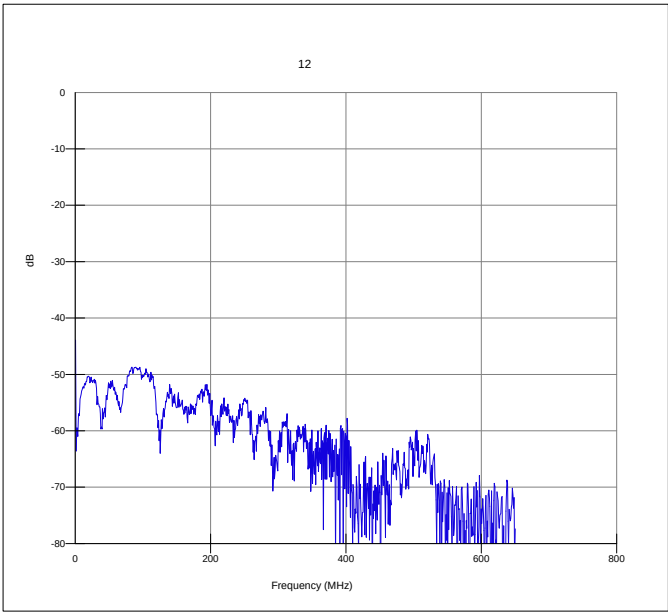
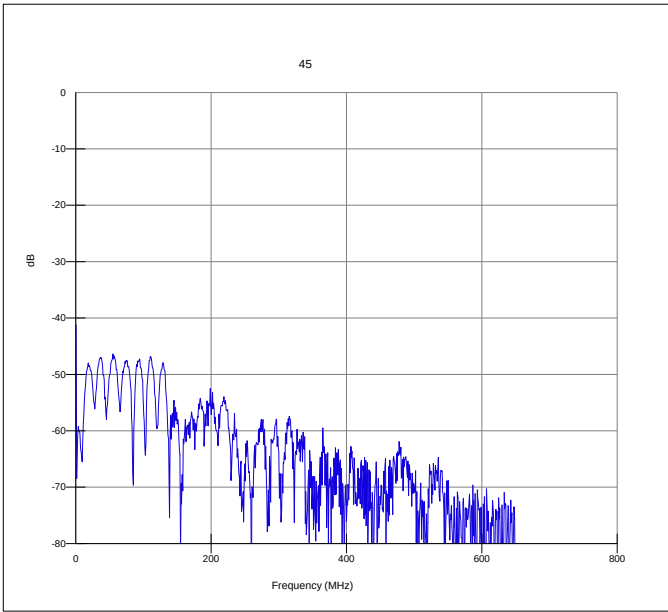
Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies





TCTL - Near End

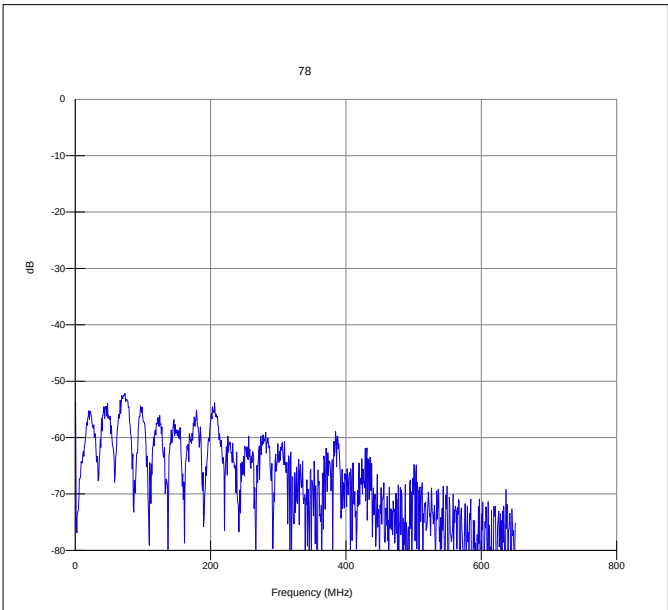
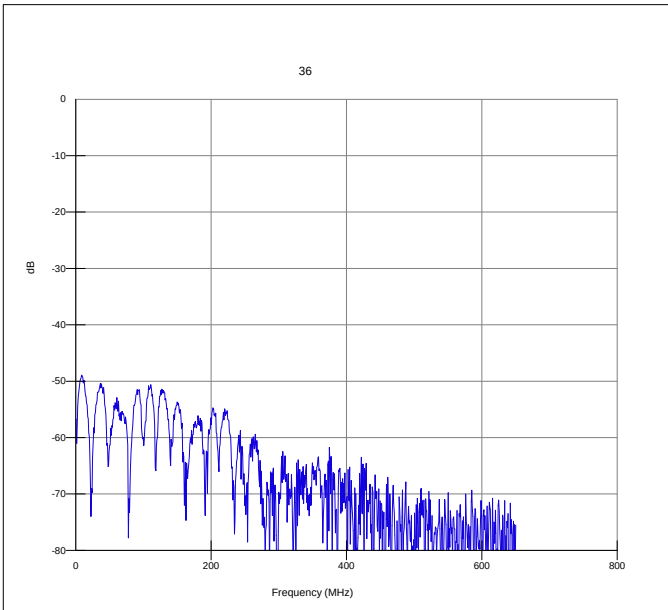
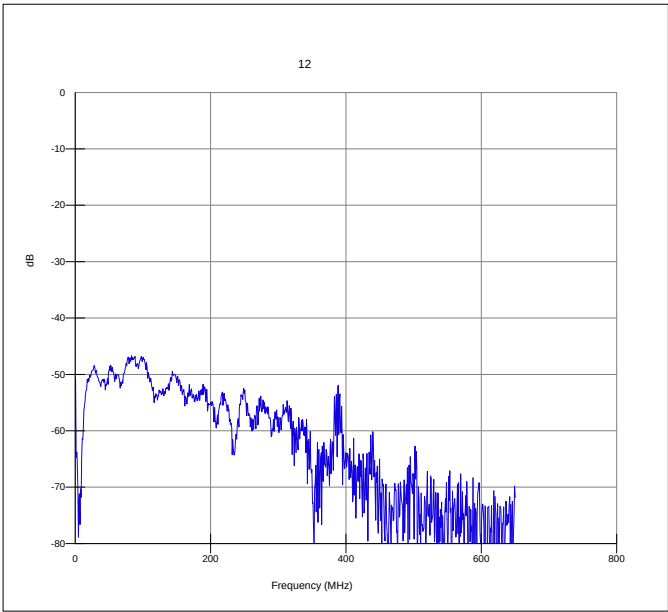
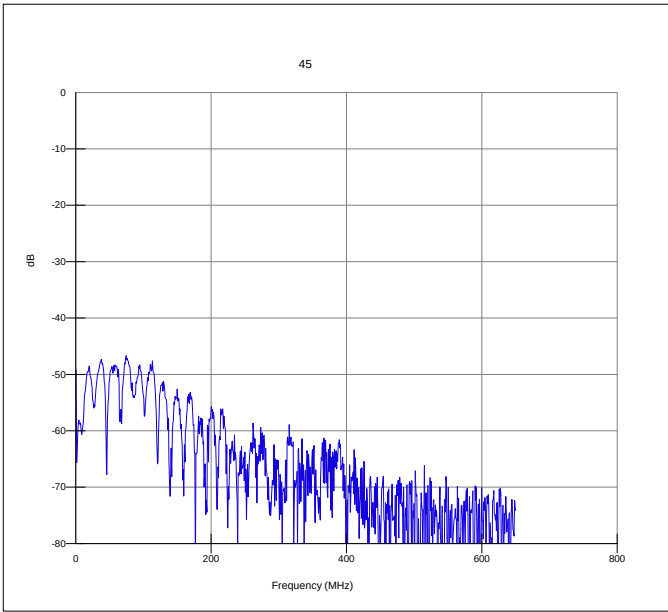
Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies





TCTL - Far End

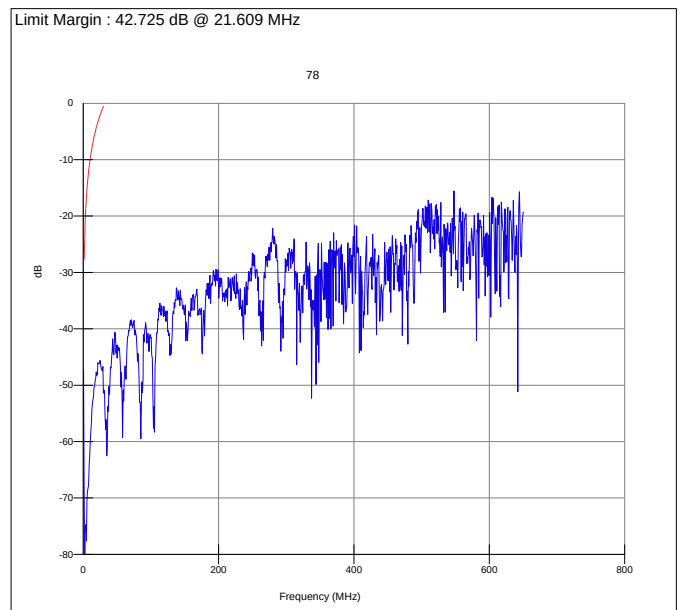
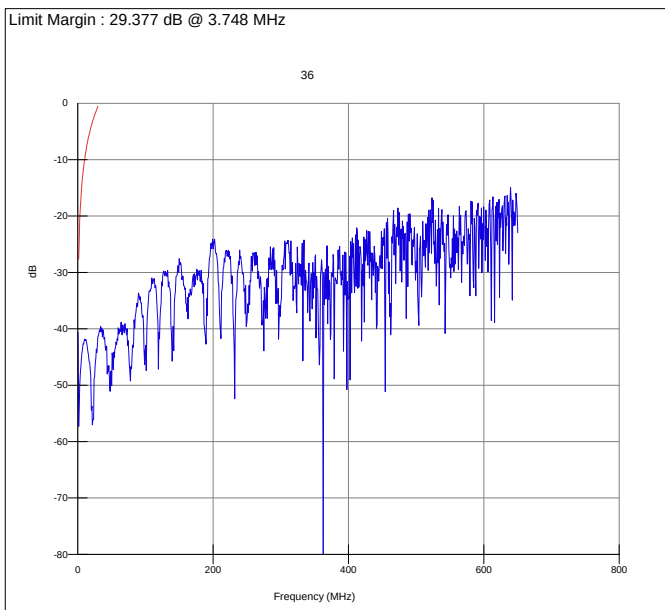
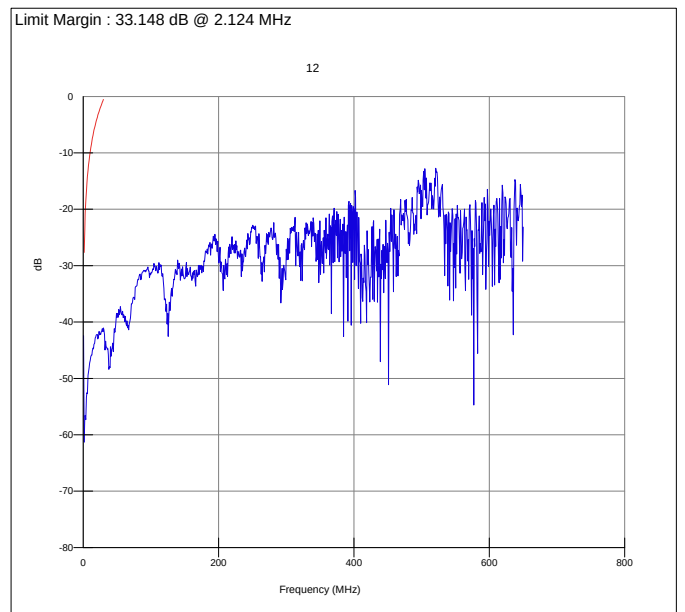
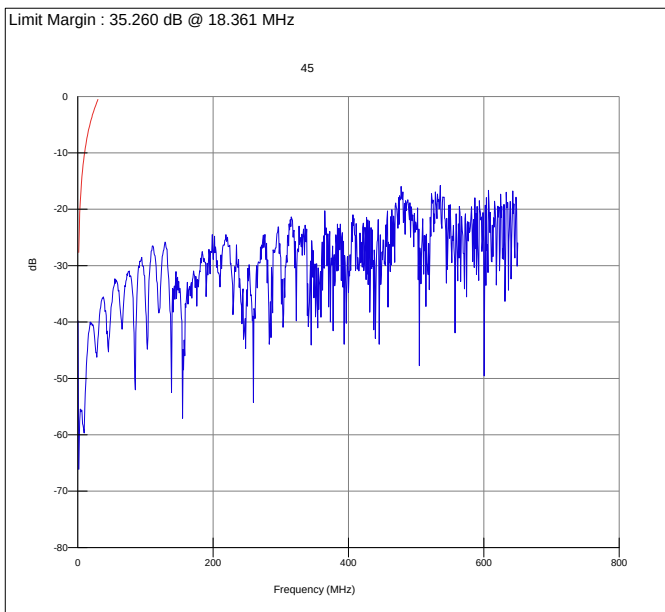
Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies





ELTCTL - Near End

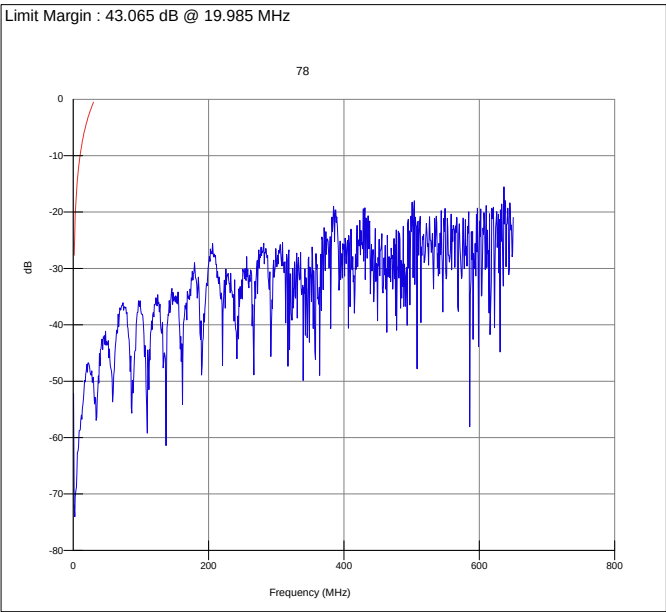
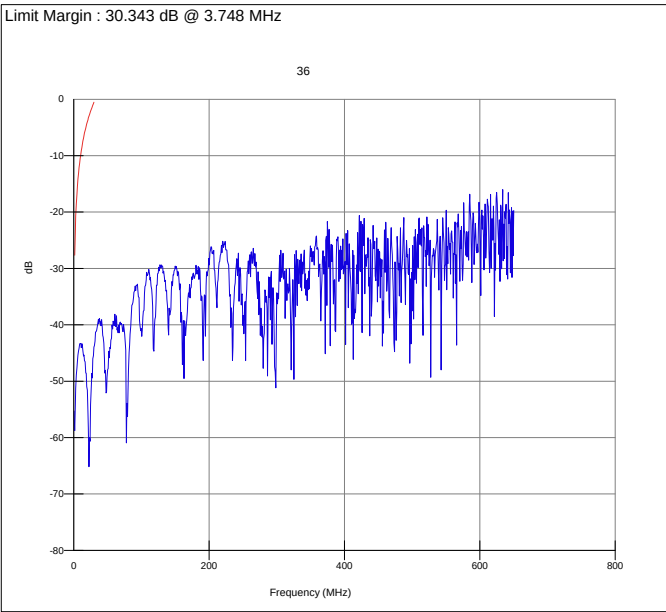
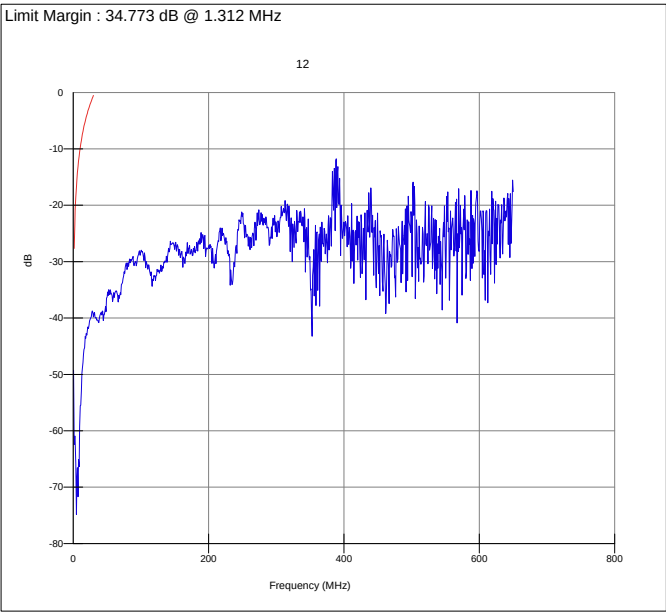
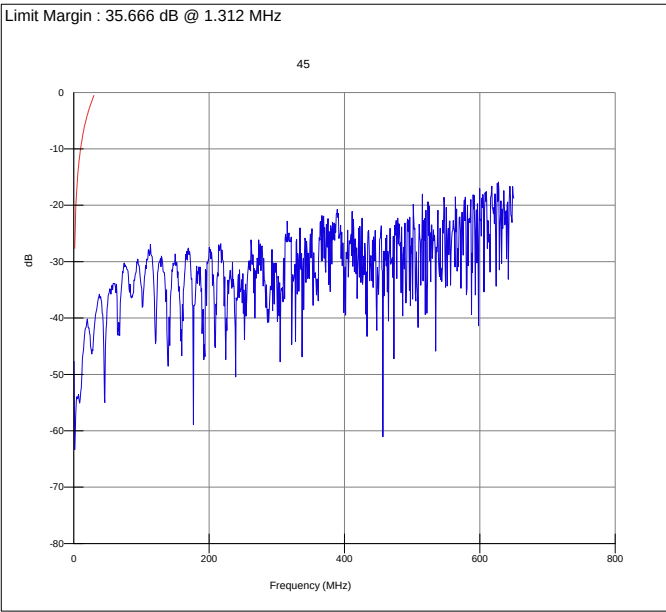
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Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies





ELTCTL - Far End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	A
Operator Name	David Ayers	Test Status	Complies





Panduit Corporation

Test report number 102765989CRT-001j
February 21, 2017

Appendix B

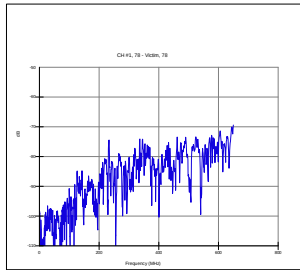
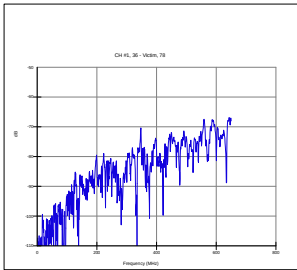
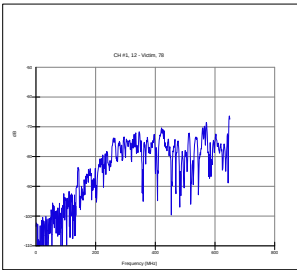
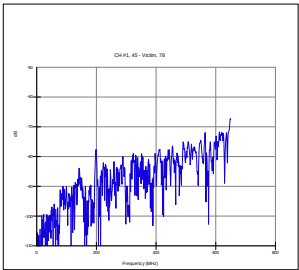
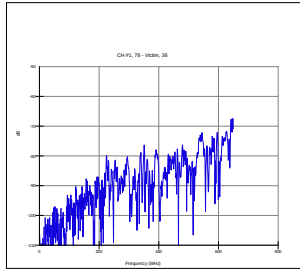
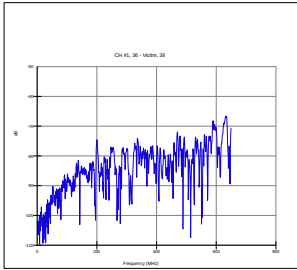
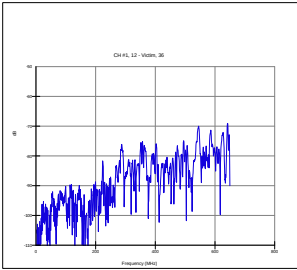
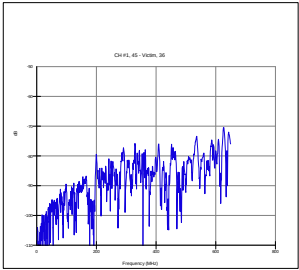
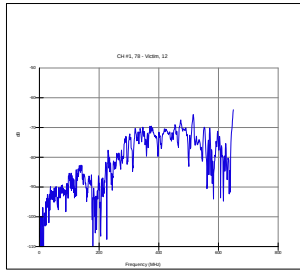
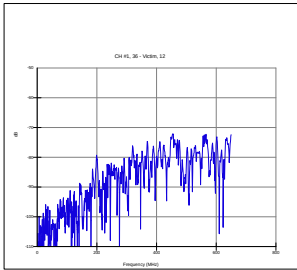
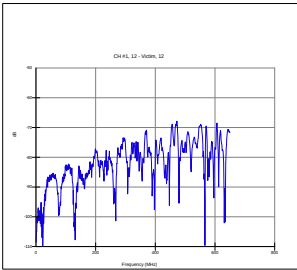
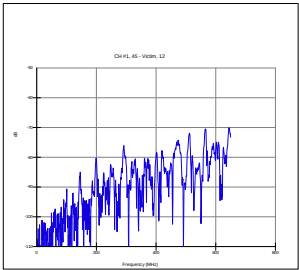
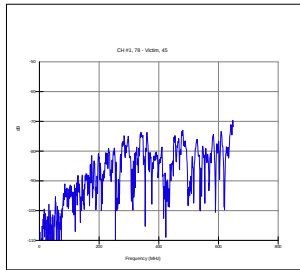
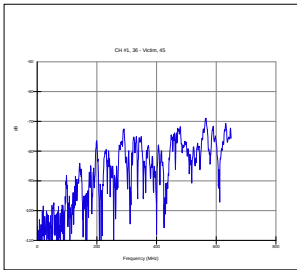
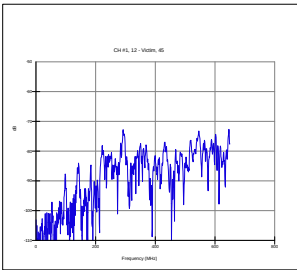
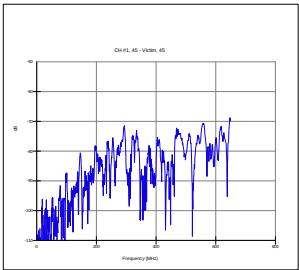
Alien crosstalk test results

This appendix contains 24 pages.



ANEXT - Near End

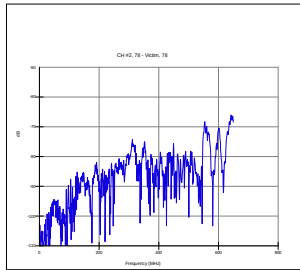
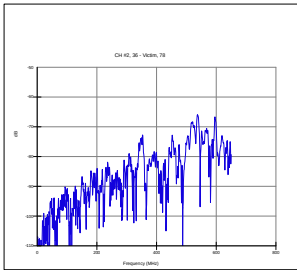
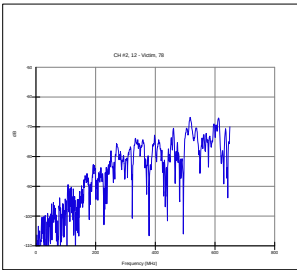
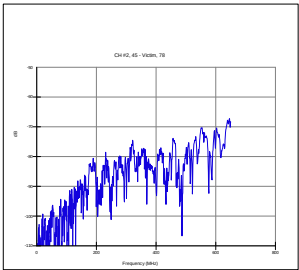
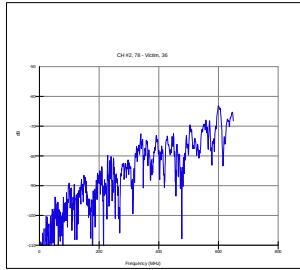
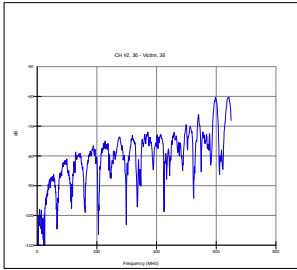
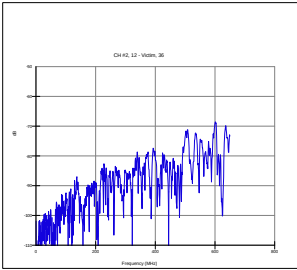
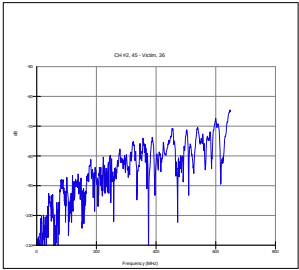
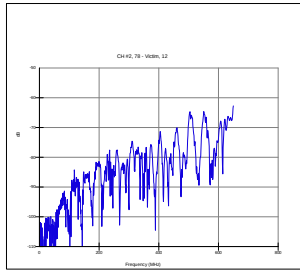
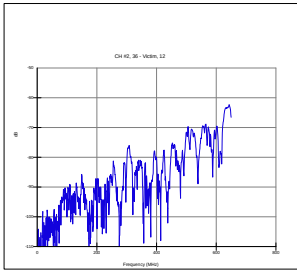
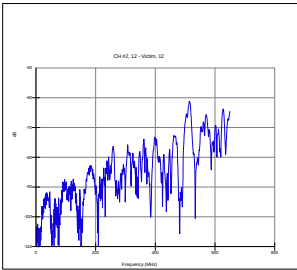
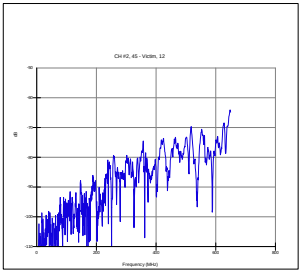
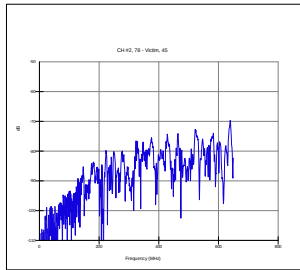
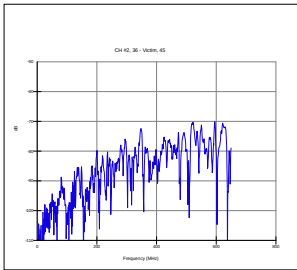
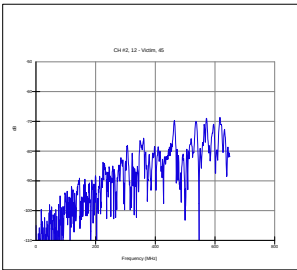
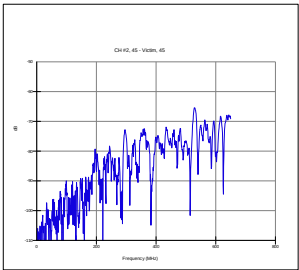
Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





ANEXT - Near End

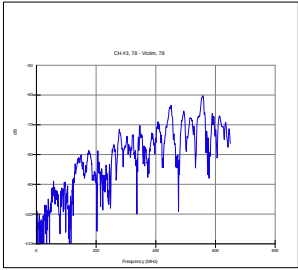
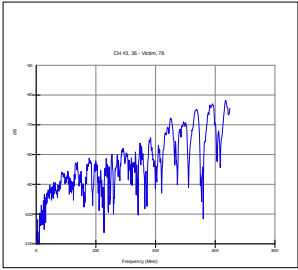
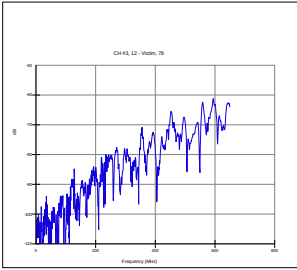
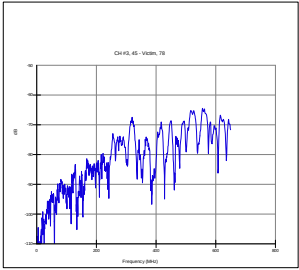
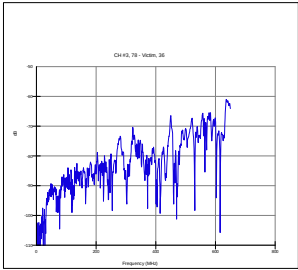
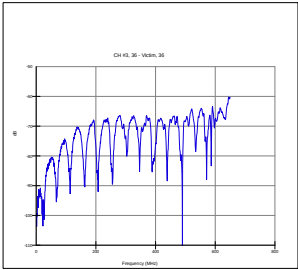
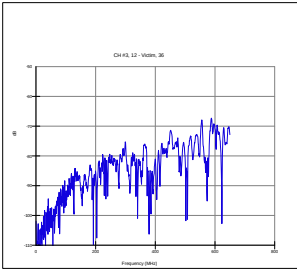
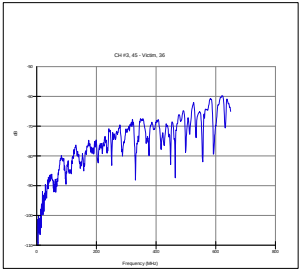
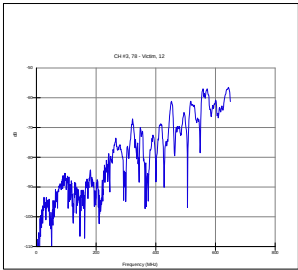
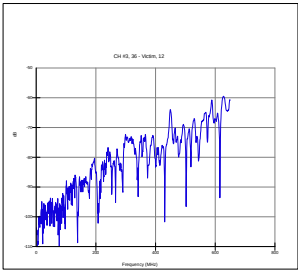
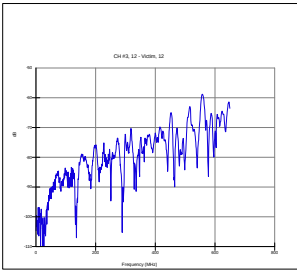
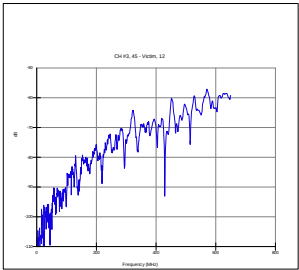
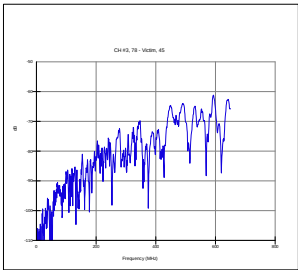
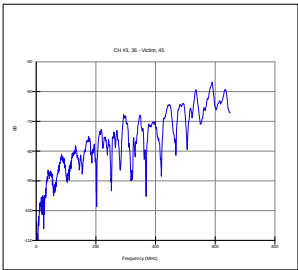
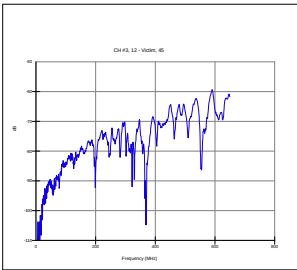
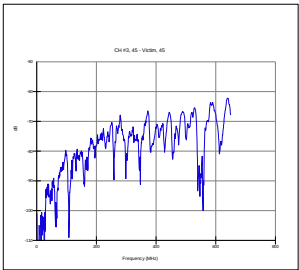
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Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
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ANEXT - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
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Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





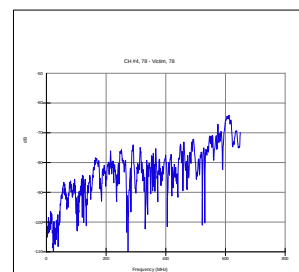
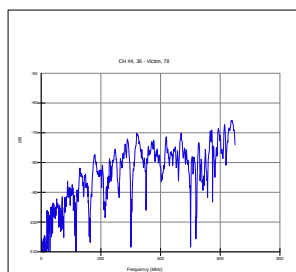
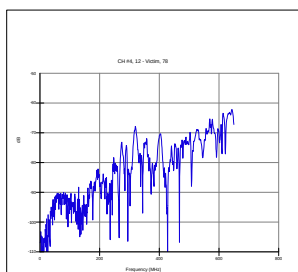
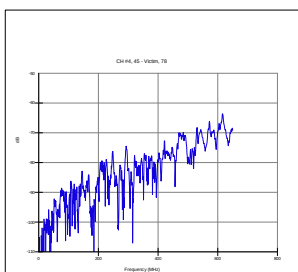
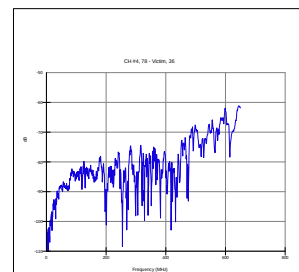
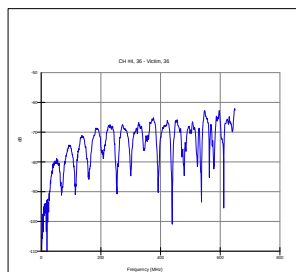
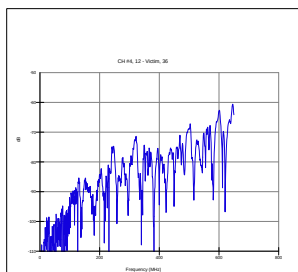
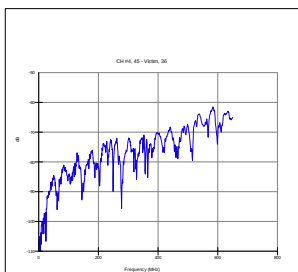
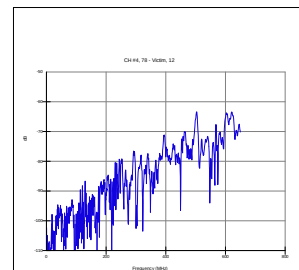
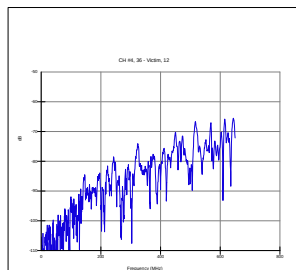
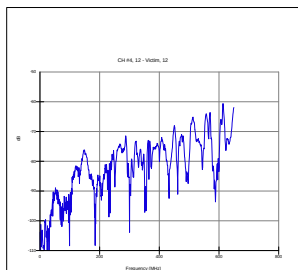
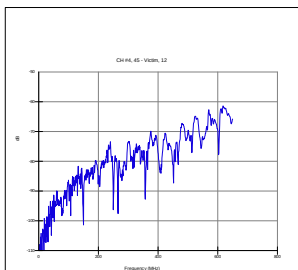
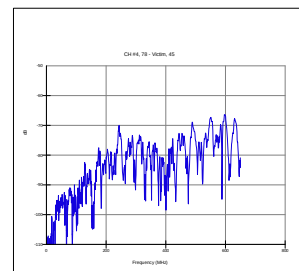
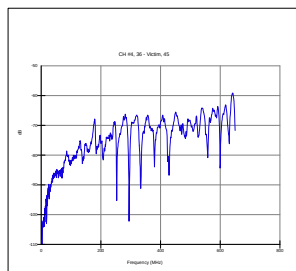
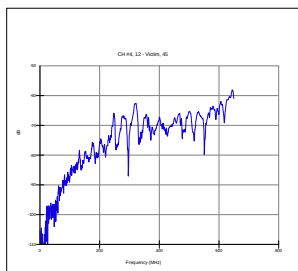
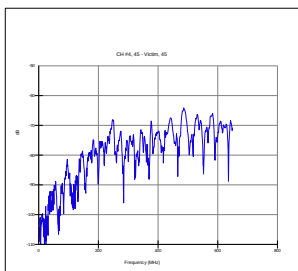
ANEXT - Near End

Client
Specification
Part No
Test Started
Description
Operator Name

Panduit
ANSI-TIA-568-C2 Cat 6A Channel
GenSPEED 10 MTP
2/18/2017 12:26:39 PM
4 Connector Channel
David Ayers

Report No
Length(m)
Temperature
Appendix
Test Status

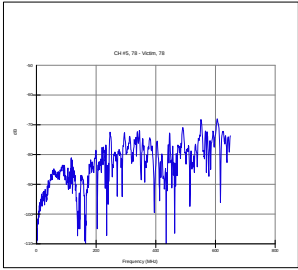
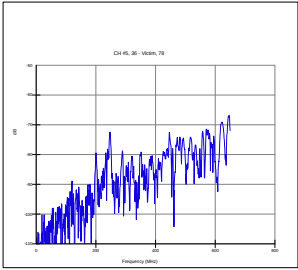
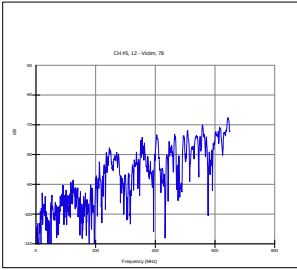
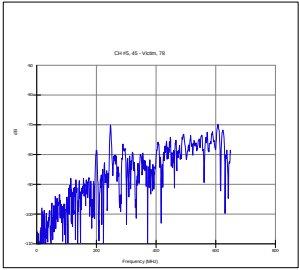
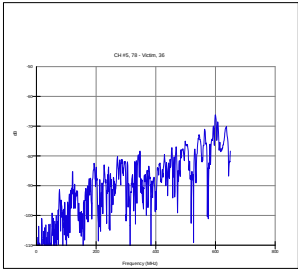
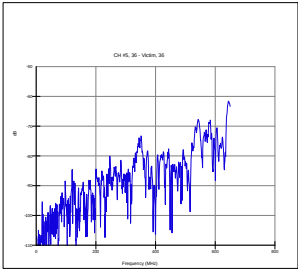
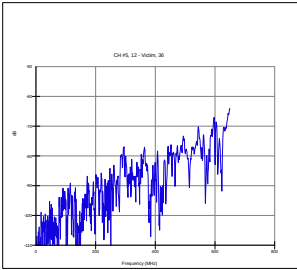
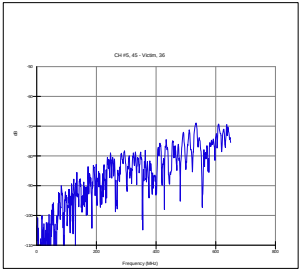
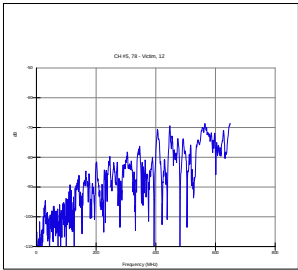
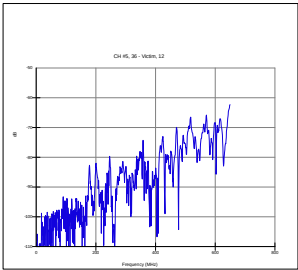
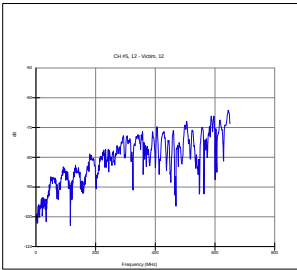
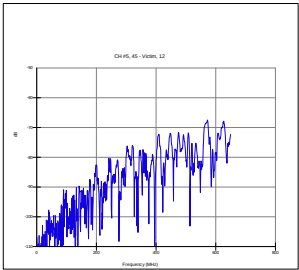
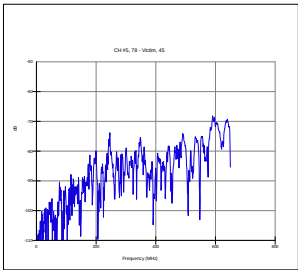
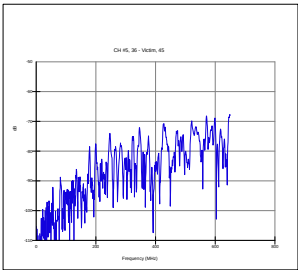
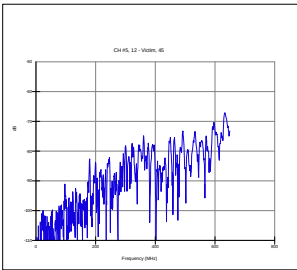
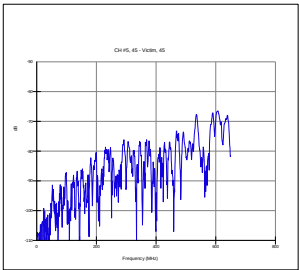
102765989CRT-001j
100.
22.7 °C
B
Complies





ANEXT - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





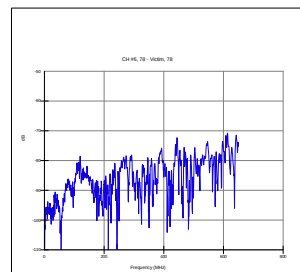
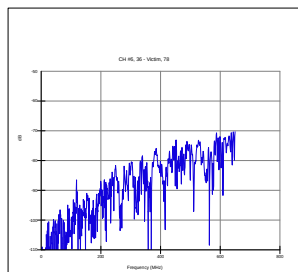
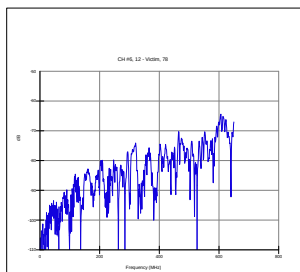
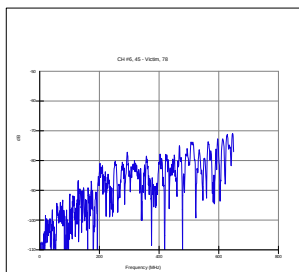
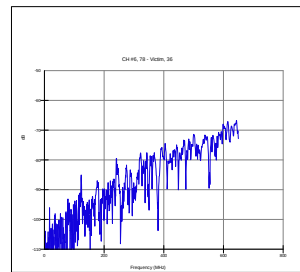
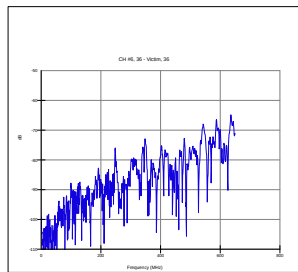
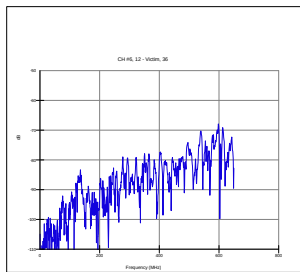
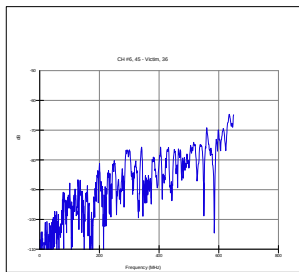
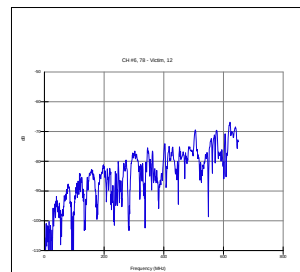
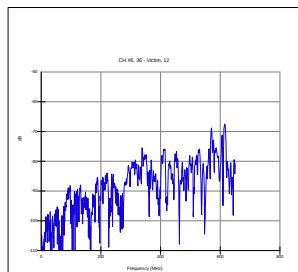
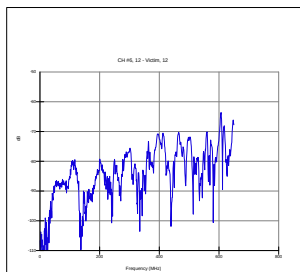
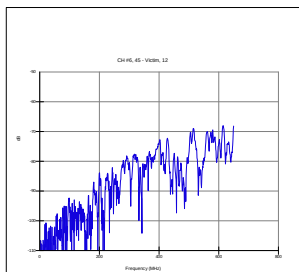
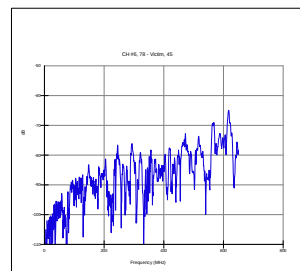
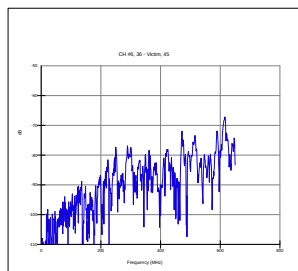
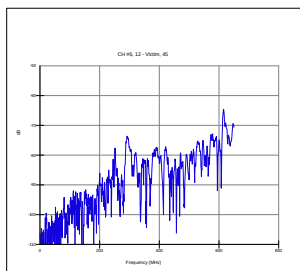
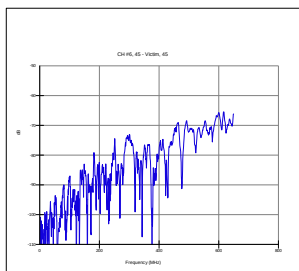
ANEXT - Near End

Client
Specification
Part No
Test Started
Description
Operator Name

Panduit
ANSI-TIA-568-C2 Cat 6A Channel
GenSPEED 10 MTP
2/18/2017 12:26:39 PM
4 Connector Channel
David Ayers

Report No
Length(m)
Temperature
Appendix
Test Status

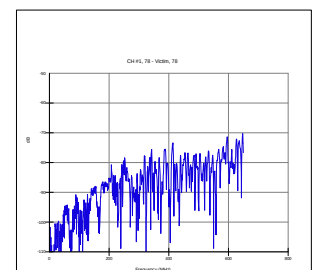
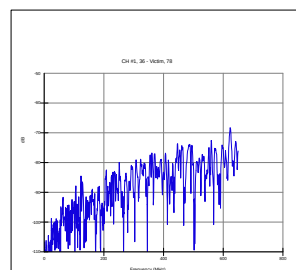
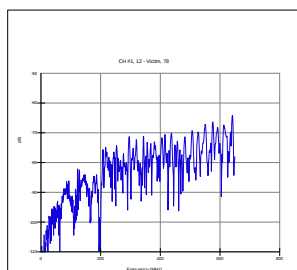
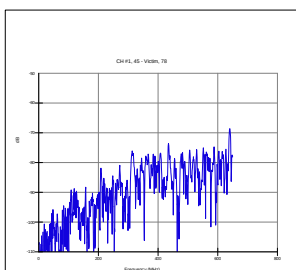
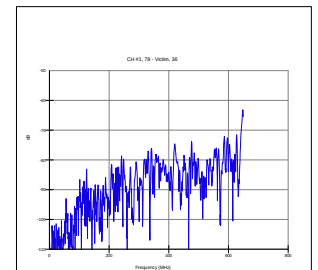
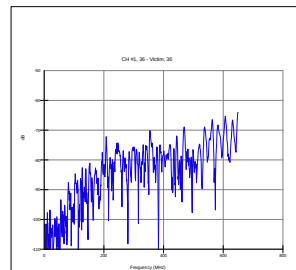
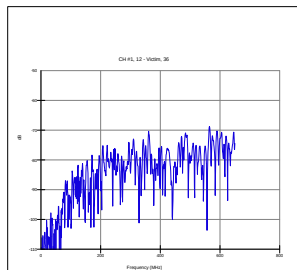
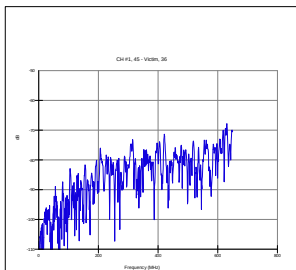
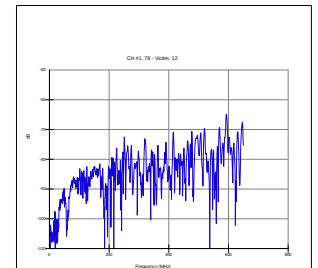
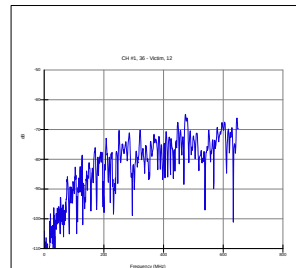
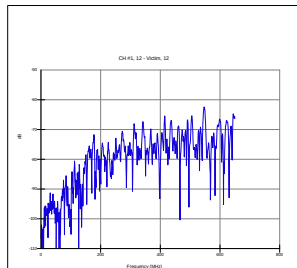
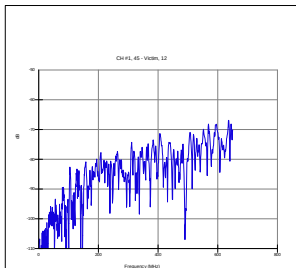
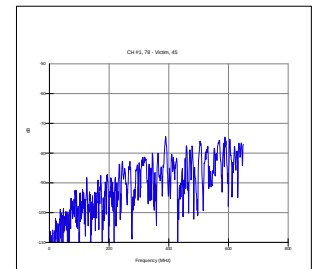
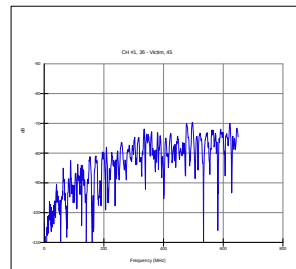
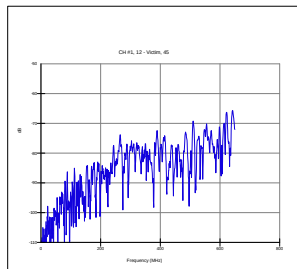
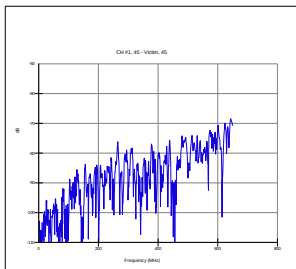
102765989CRT-001j
100.
22.7 °C
B
Complies





ANEXT - Far End

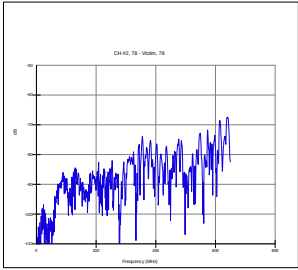
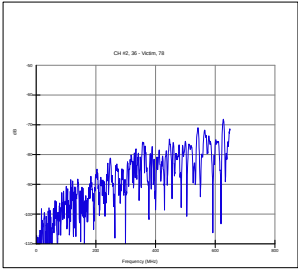
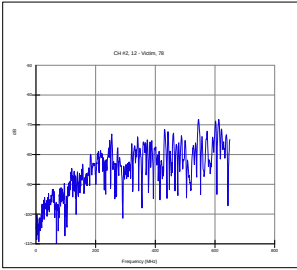
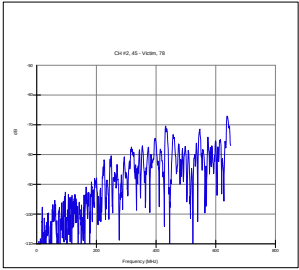
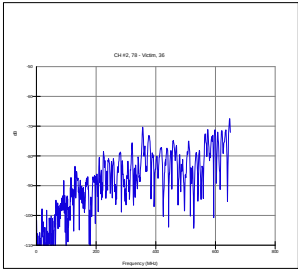
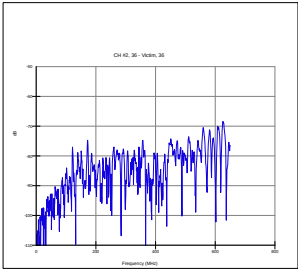
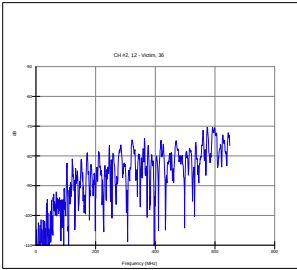
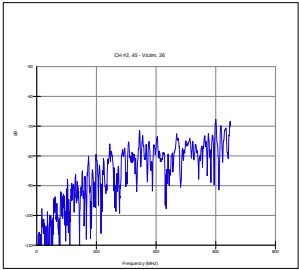
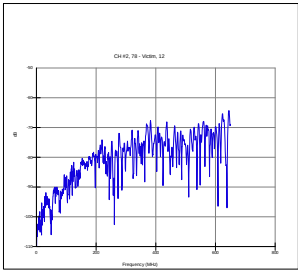
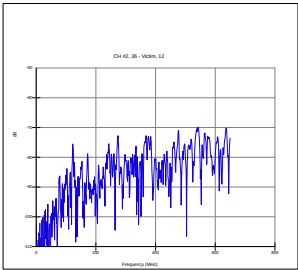
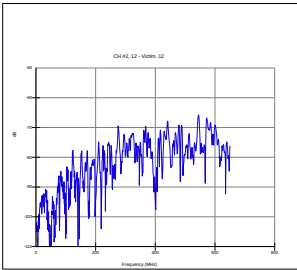
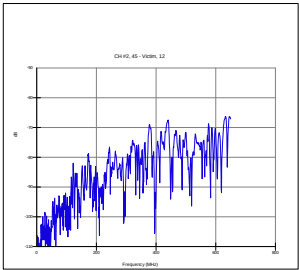
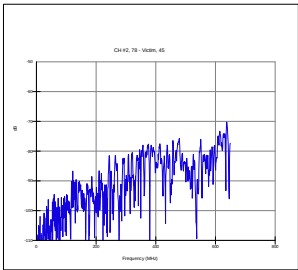
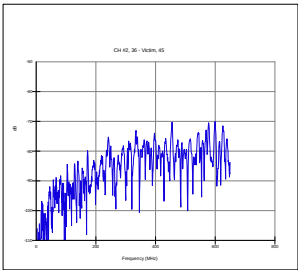
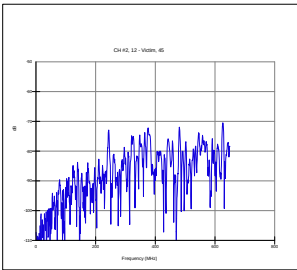
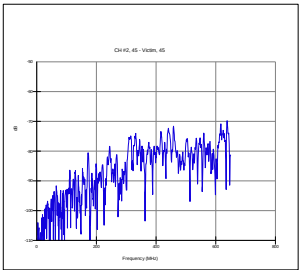
Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





ANEXT - Far End

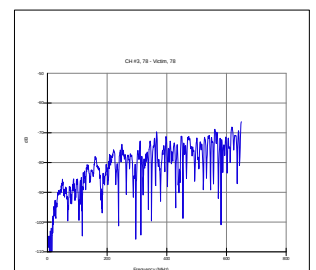
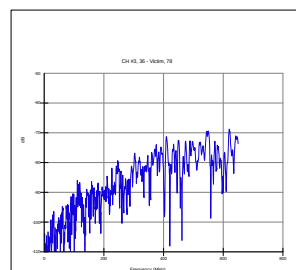
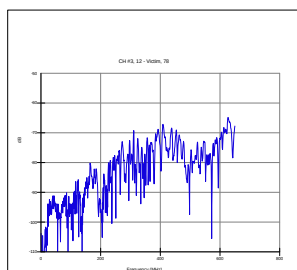
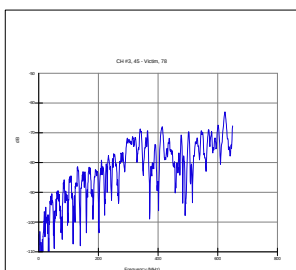
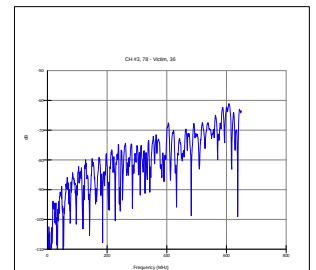
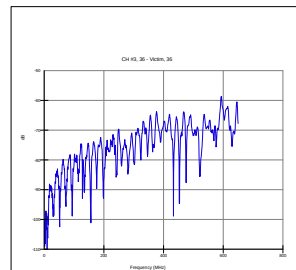
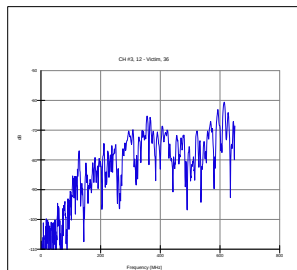
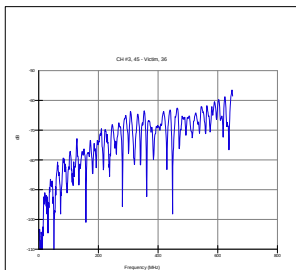
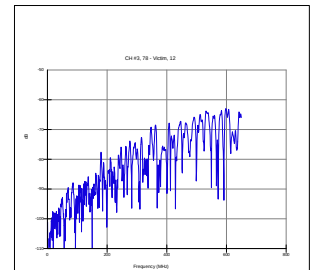
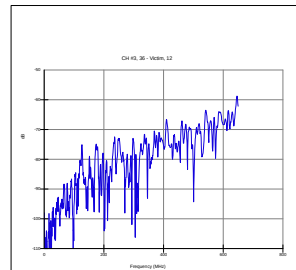
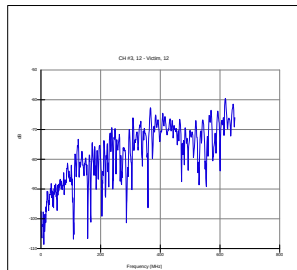
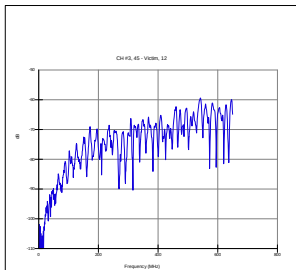
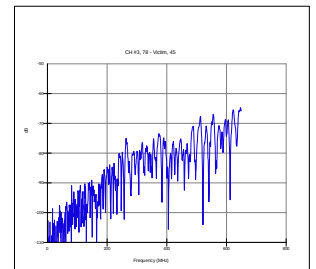
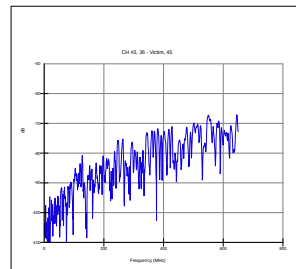
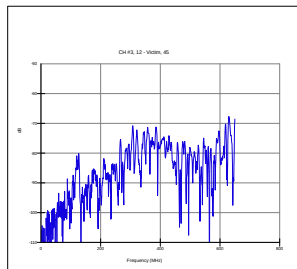
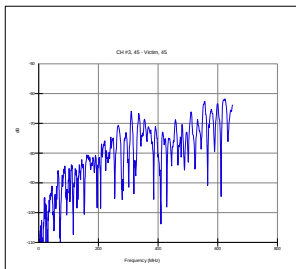
Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





ANEXT - Far End

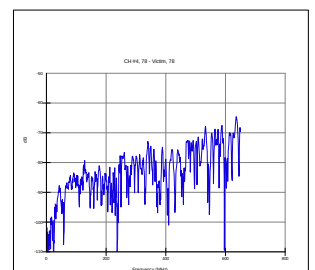
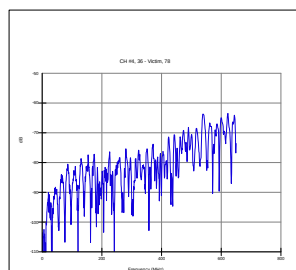
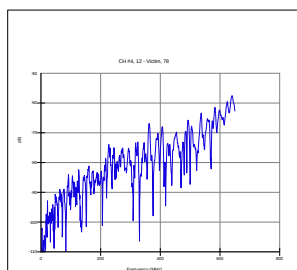
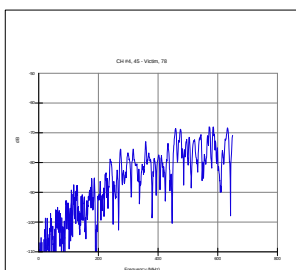
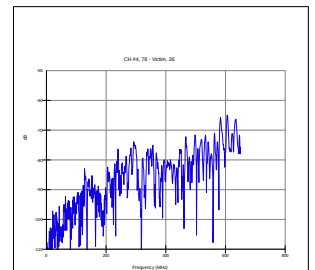
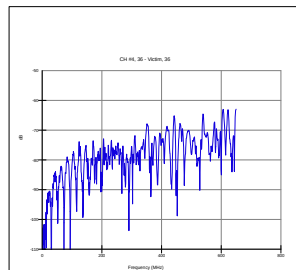
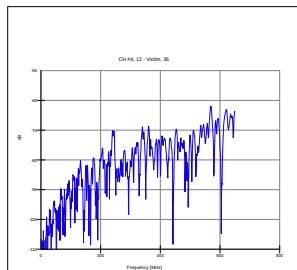
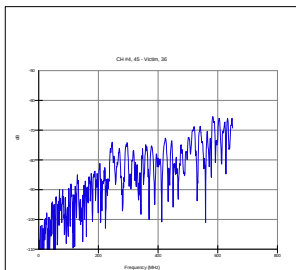
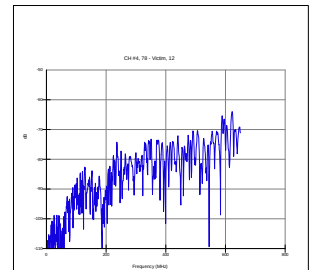
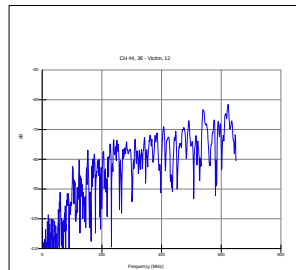
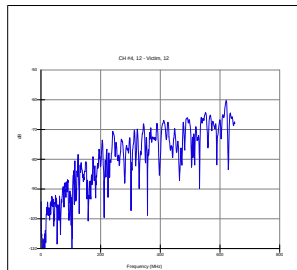
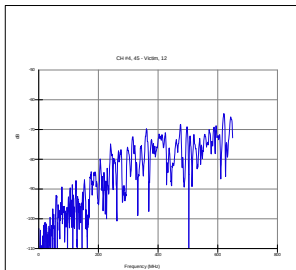
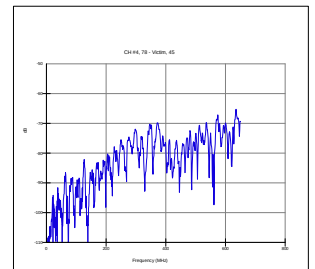
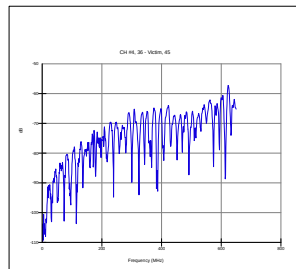
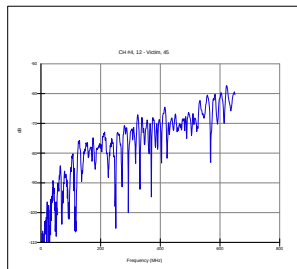
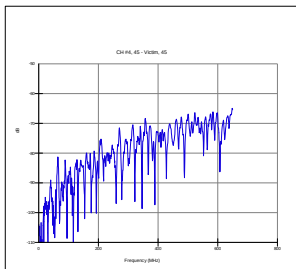
Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





ANEXT - Far End

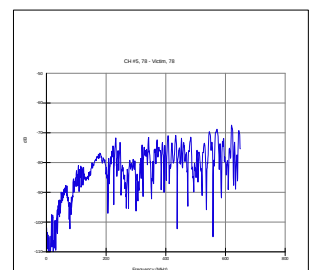
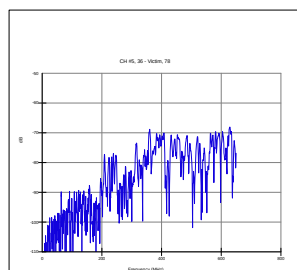
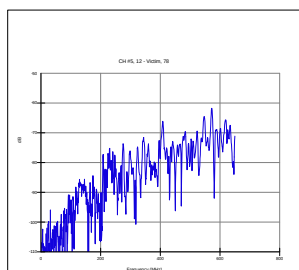
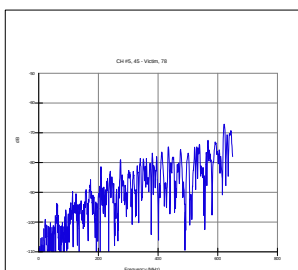
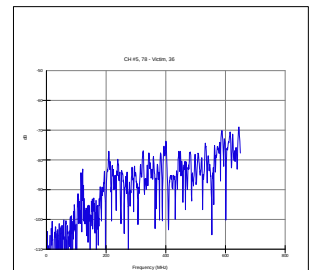
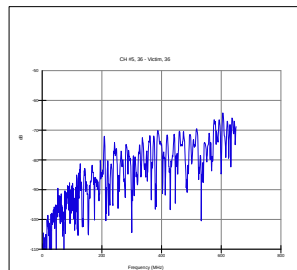
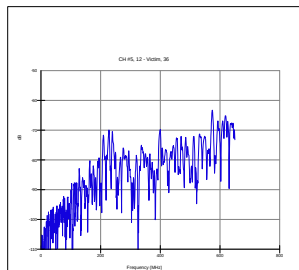
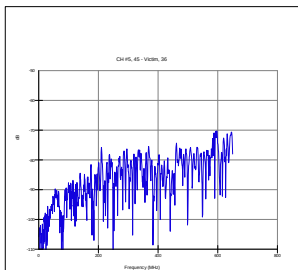
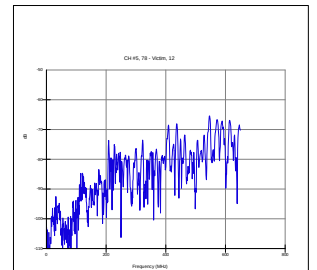
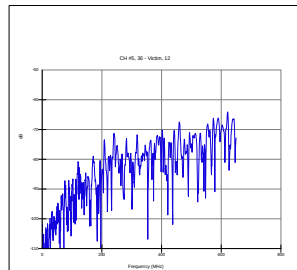
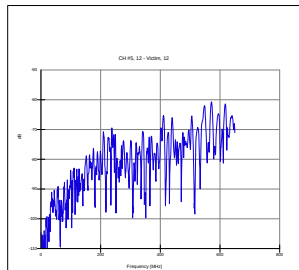
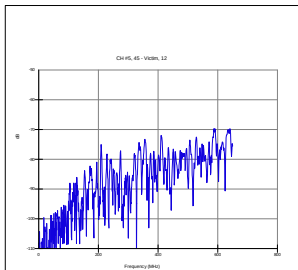
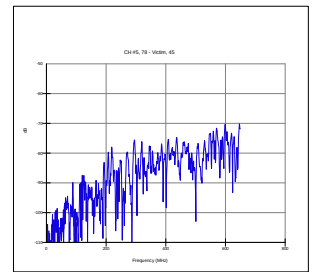
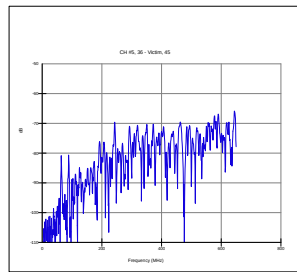
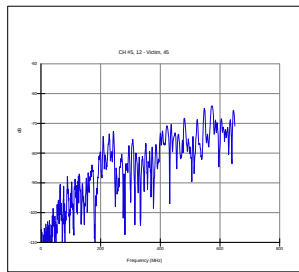
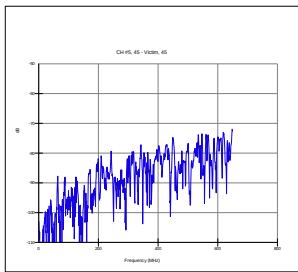
Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





ANEXT - Far End

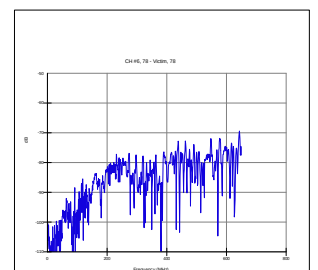
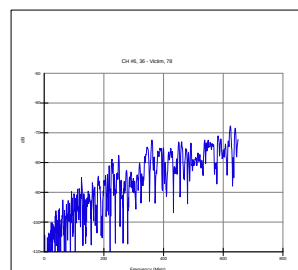
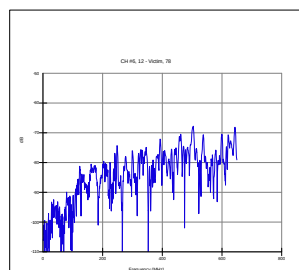
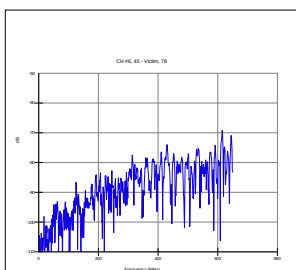
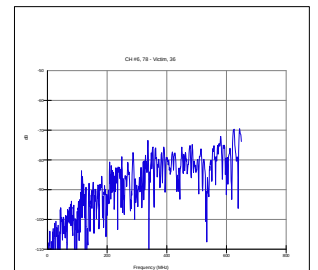
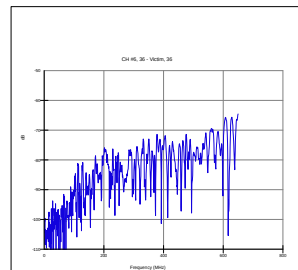
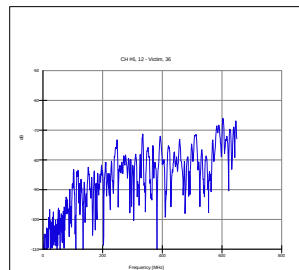
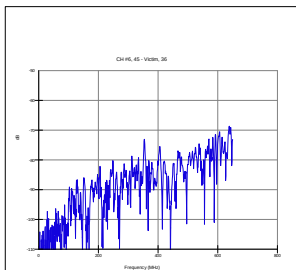
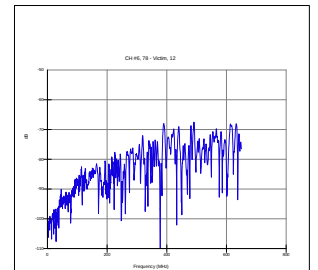
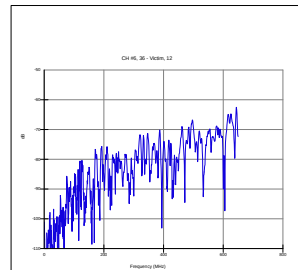
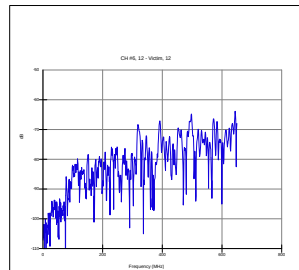
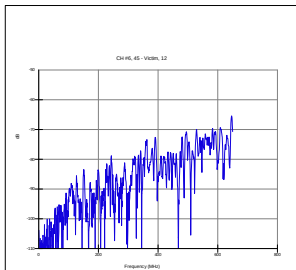
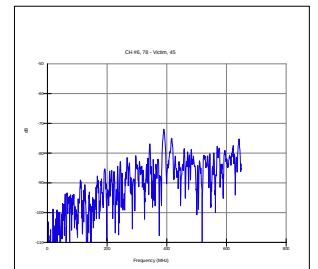
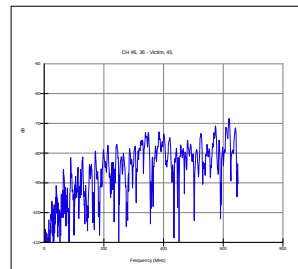
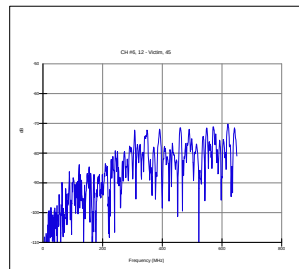
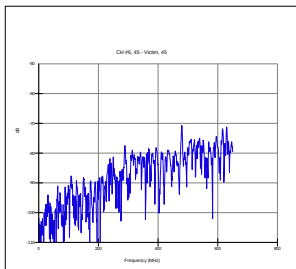
Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





ANEXT - Far End

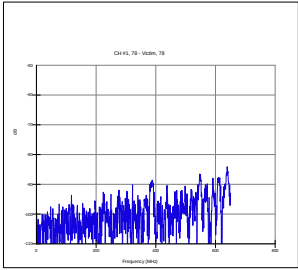
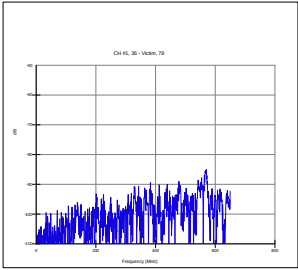
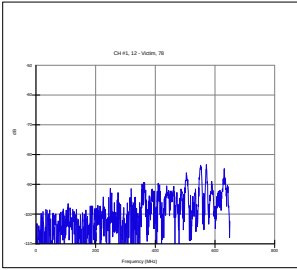
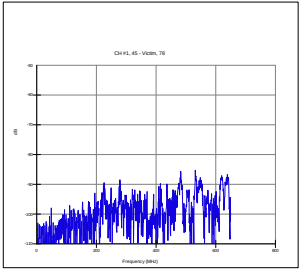
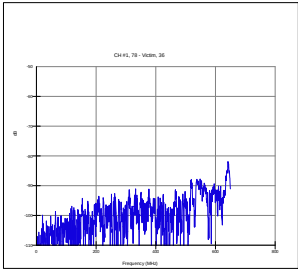
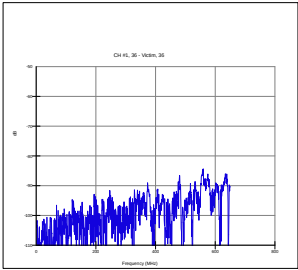
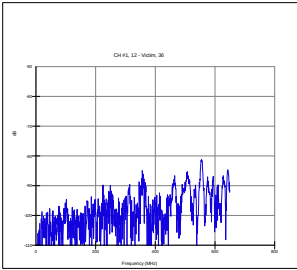
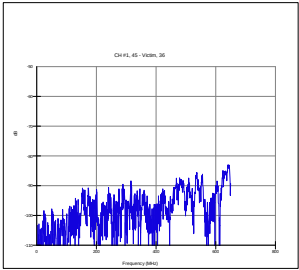
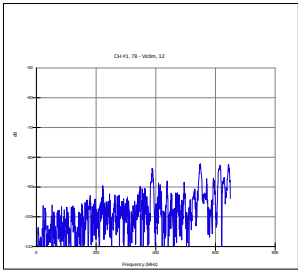
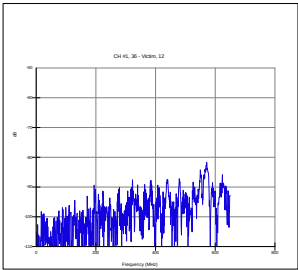
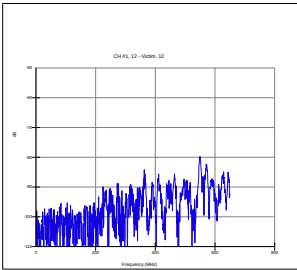
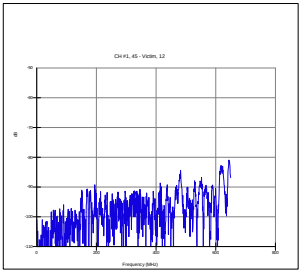
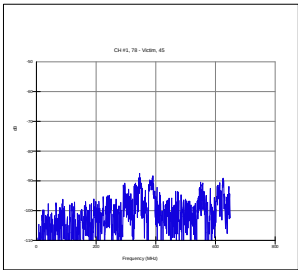
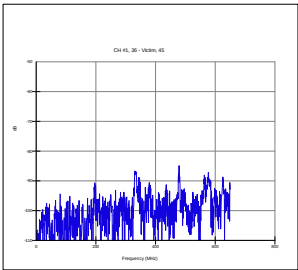
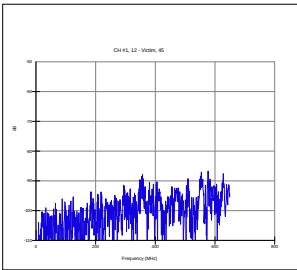
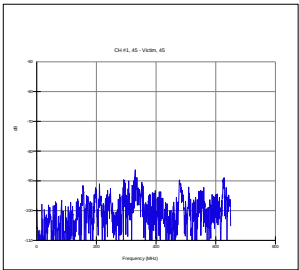
Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





AFEXT - Near End

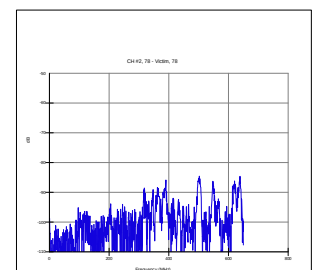
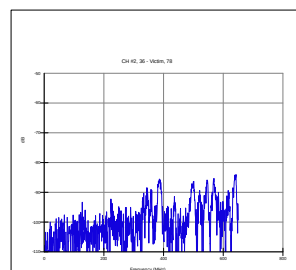
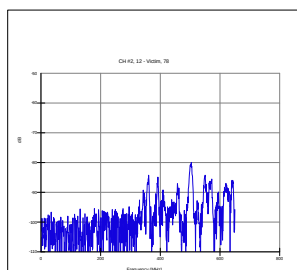
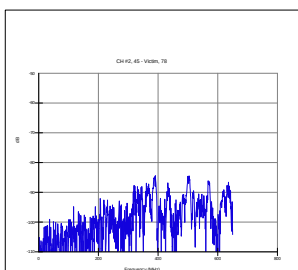
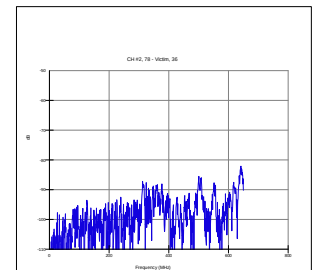
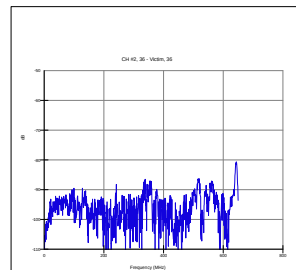
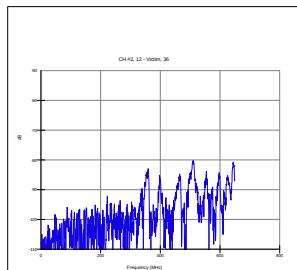
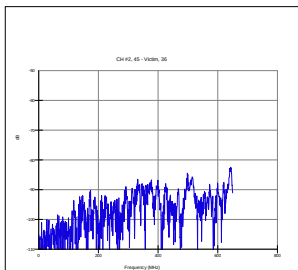
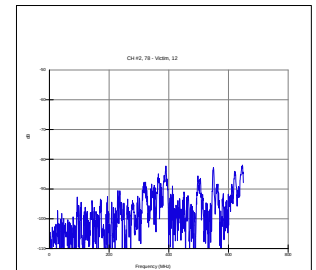
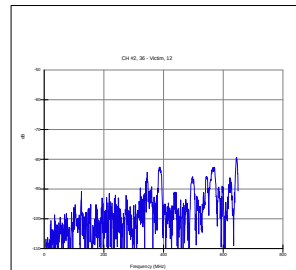
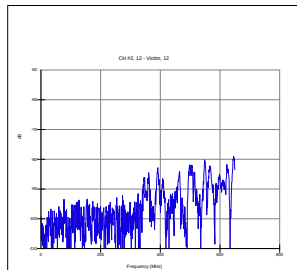
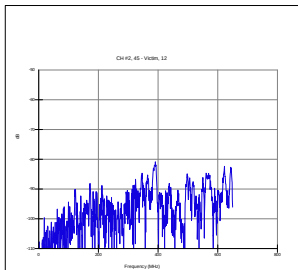
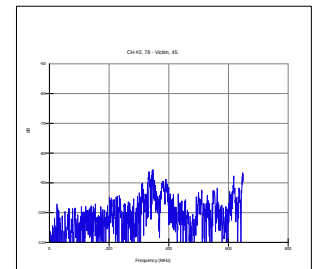
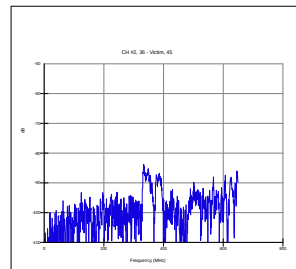
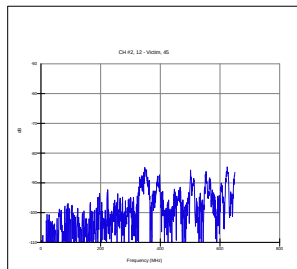
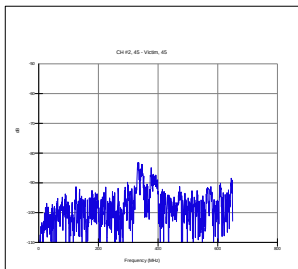
Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





AFEXT - Near End

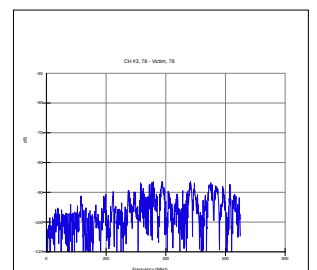
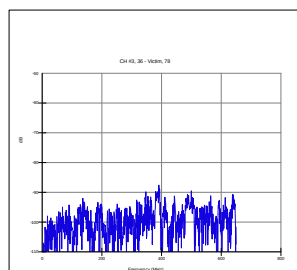
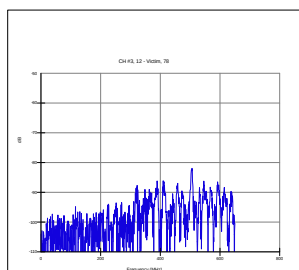
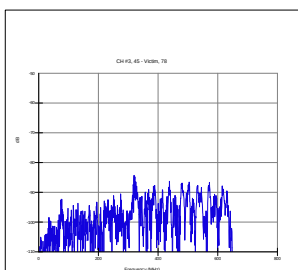
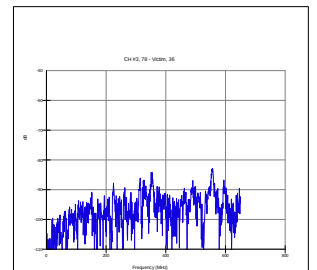
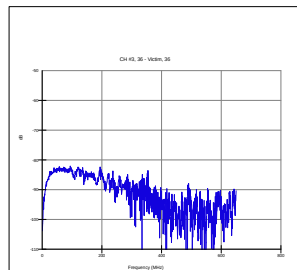
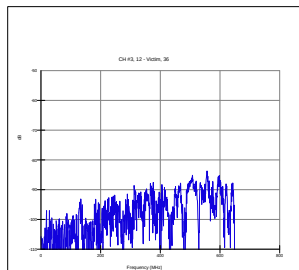
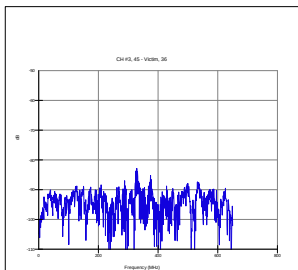
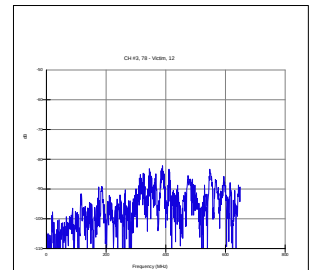
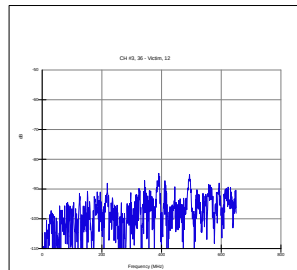
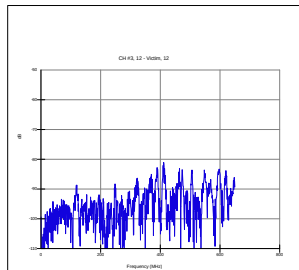
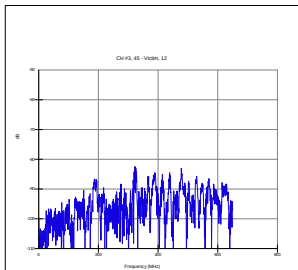
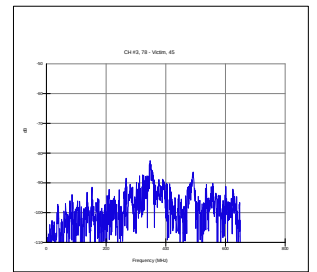
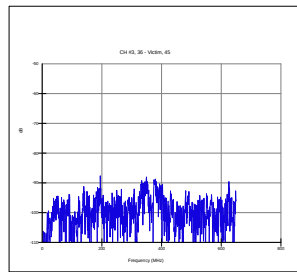
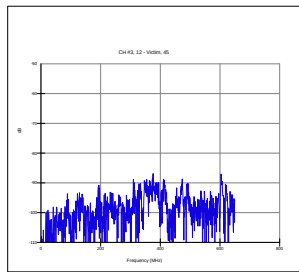
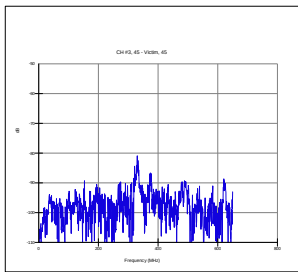
Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





AFEXT - Near End

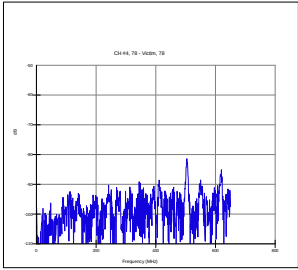
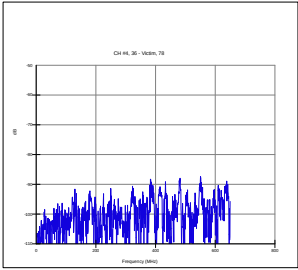
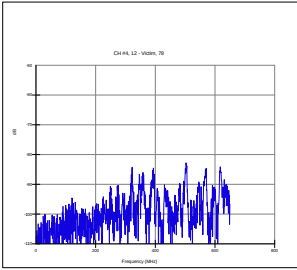
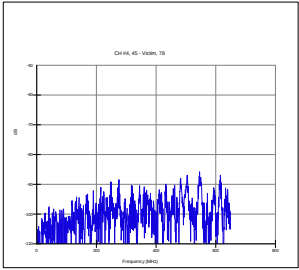
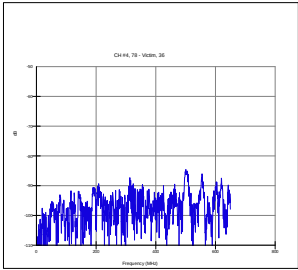
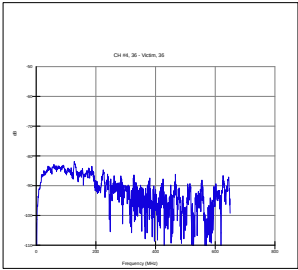
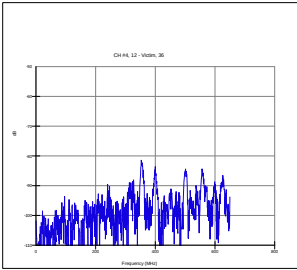
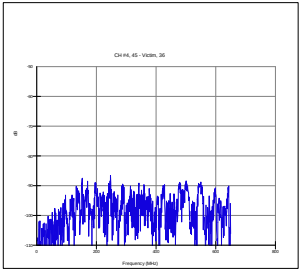
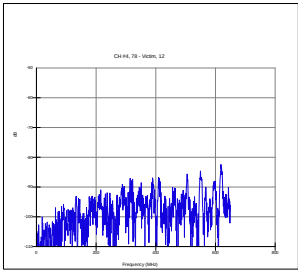
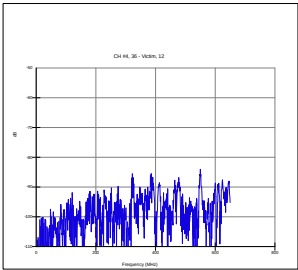
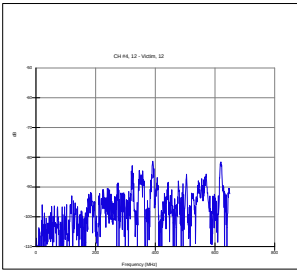
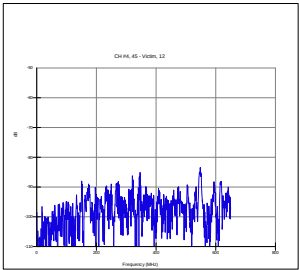
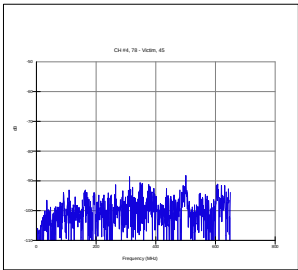
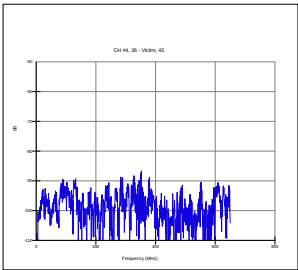
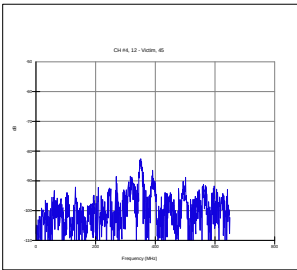
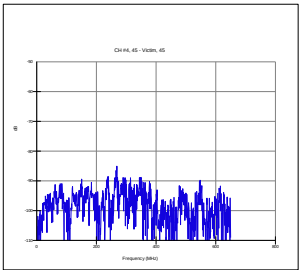
Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





AFEXT - Near End

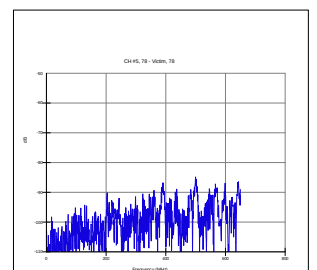
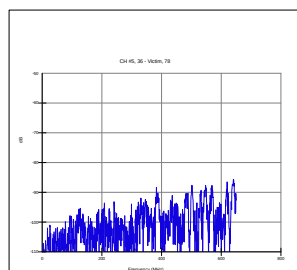
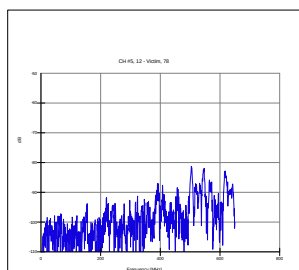
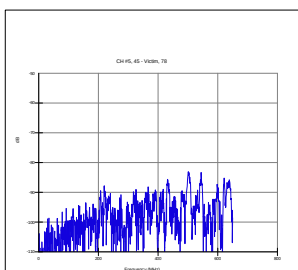
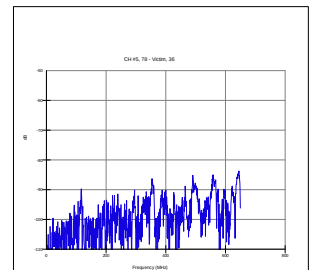
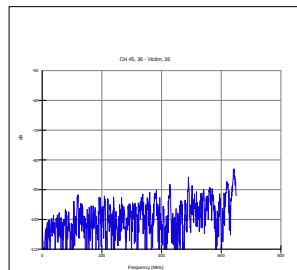
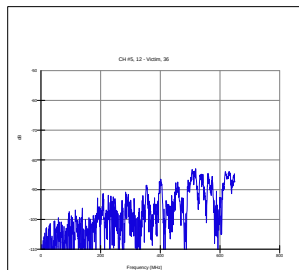
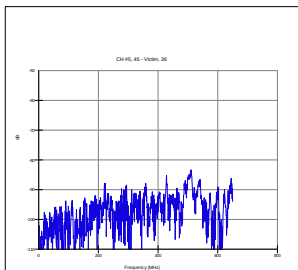
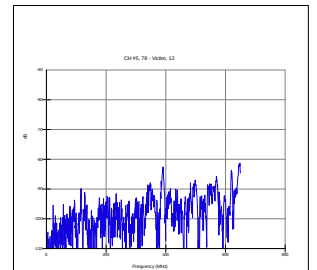
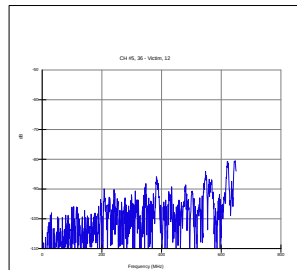
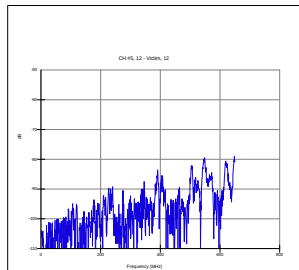
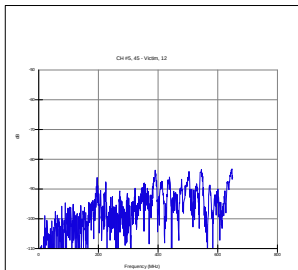
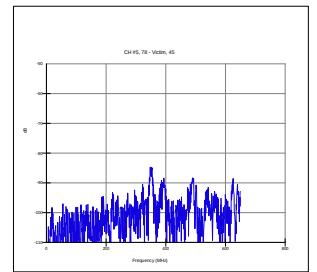
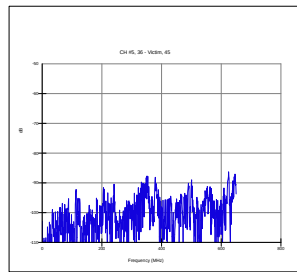
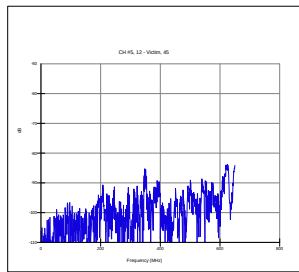
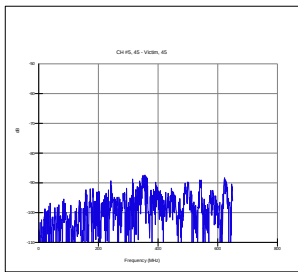
Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





AFEXT - Near End

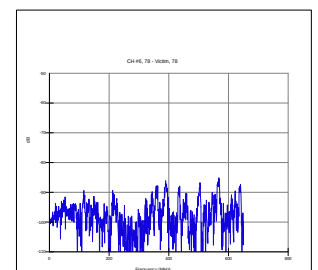
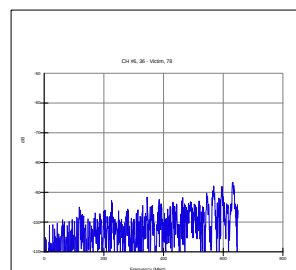
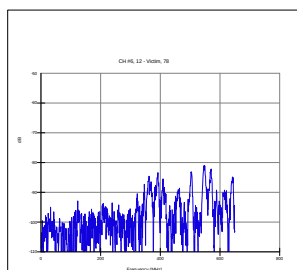
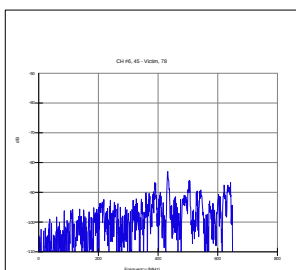
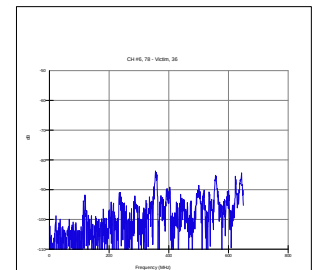
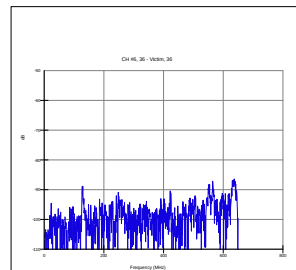
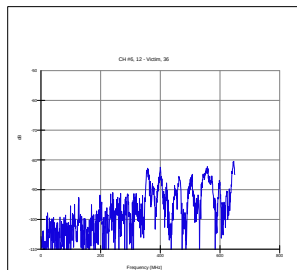
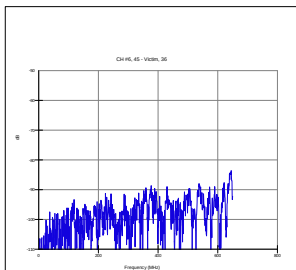
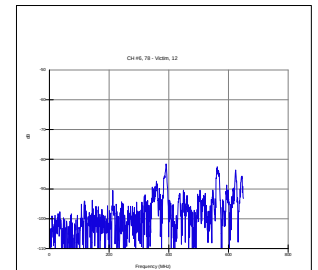
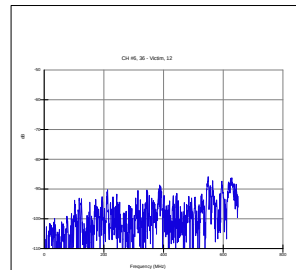
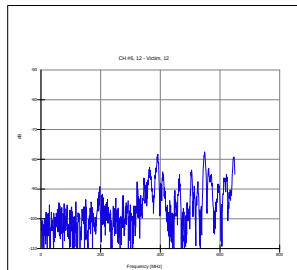
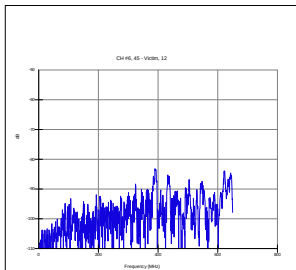
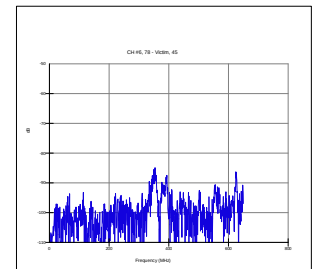
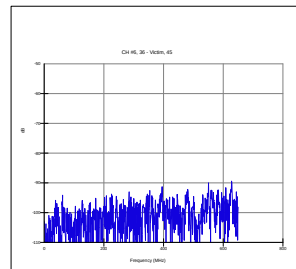
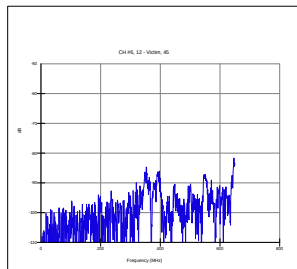
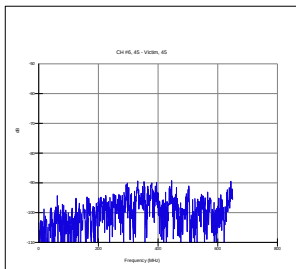
Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies





AFEXT - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies

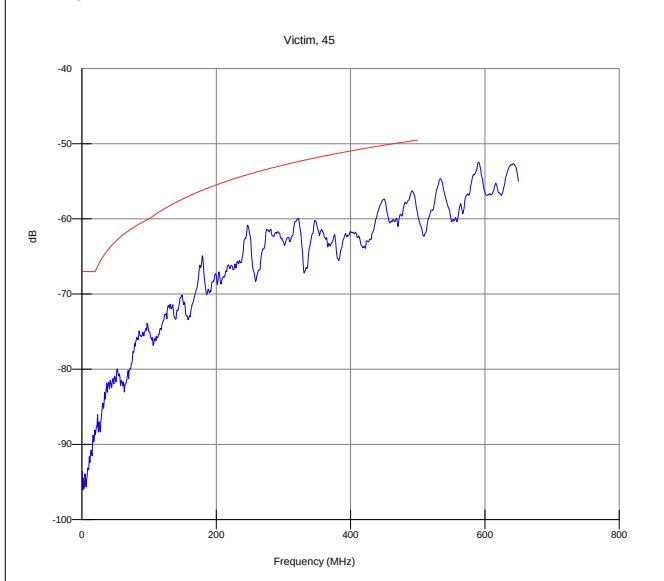




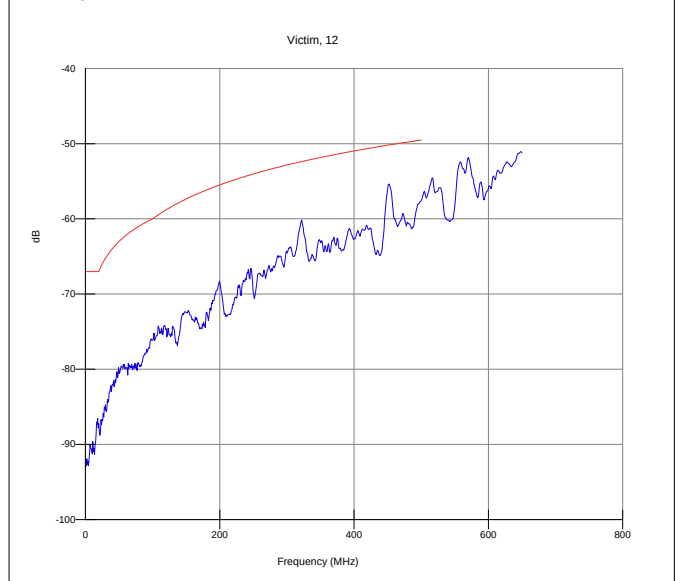
PSANEXT - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies

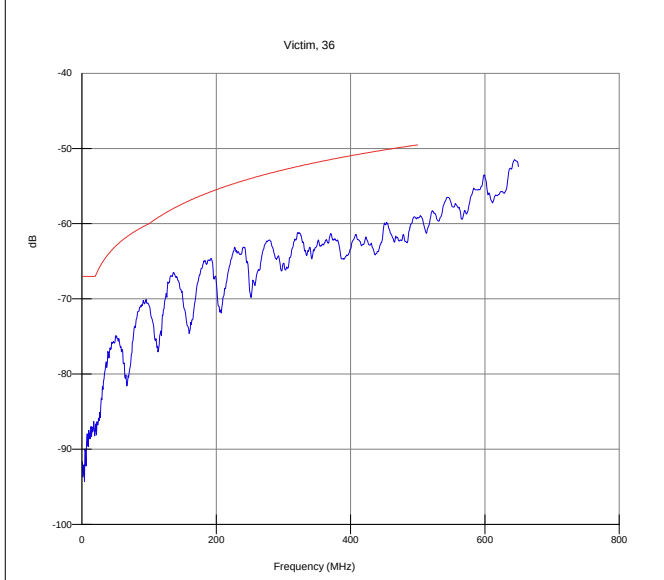
Limit Margin : 6.657 dB @ 491.684 MHz



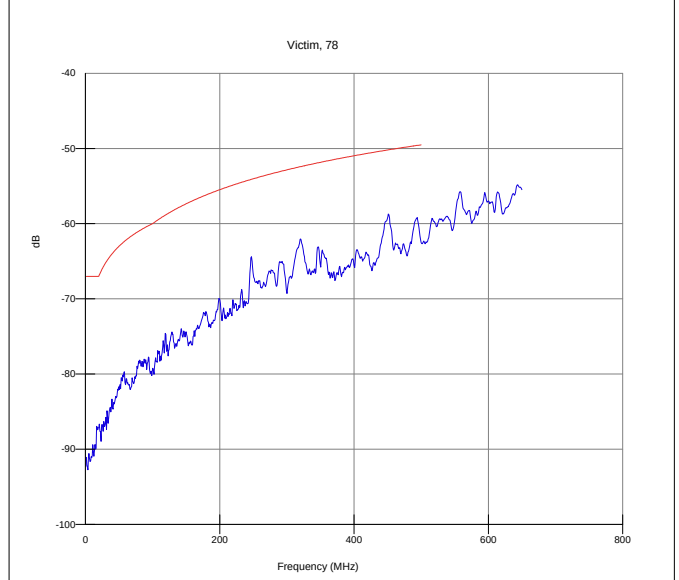
Limit Margin : 5.209 dB @ 451.903 MHz



Limit Margin : 8.491 dB @ 227.825 MHz



Limit Margin : 8.535 dB @ 451.091 MHz

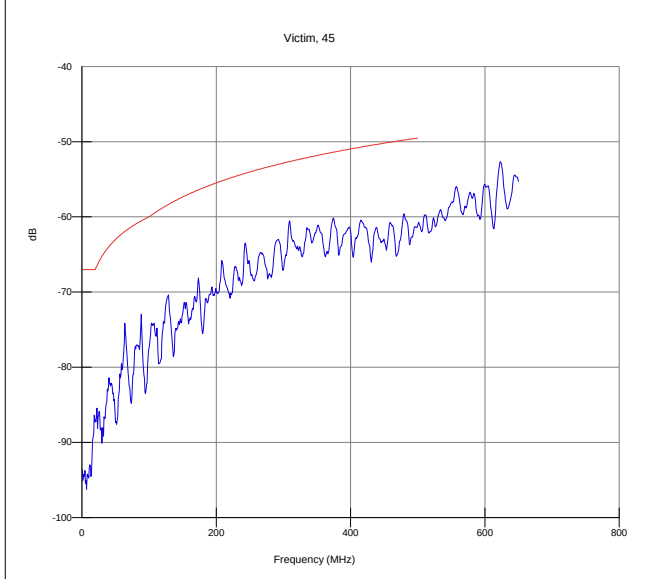




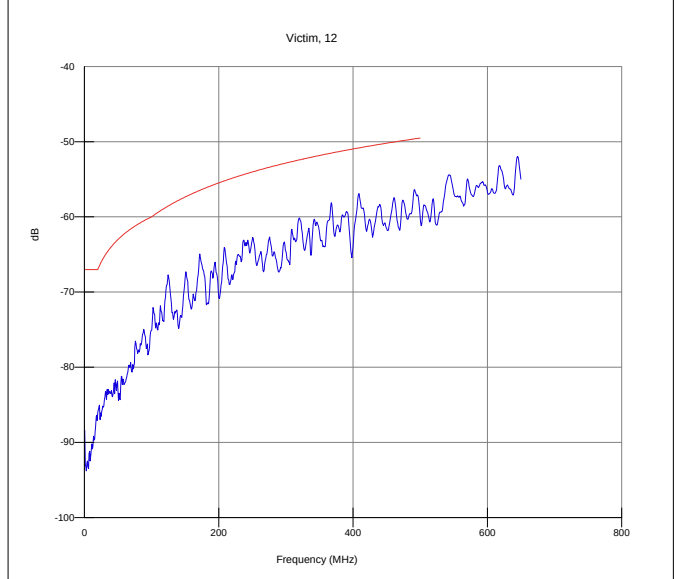
PSANEXT - Far End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies

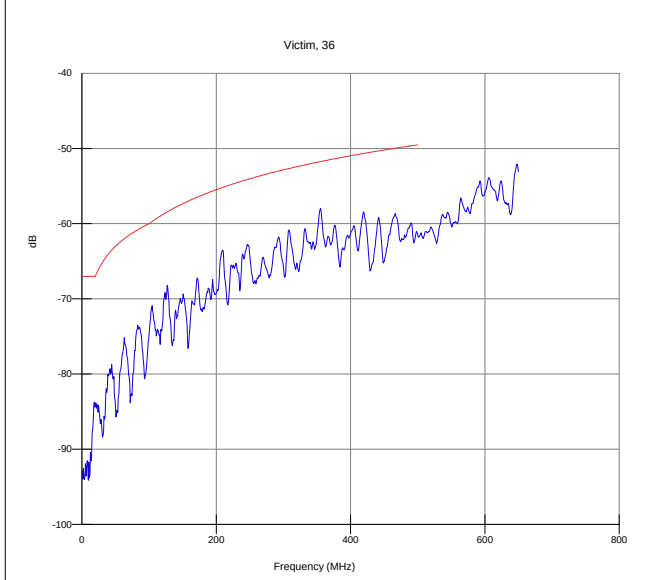
Limit Margin : 7.875 dB @ 309.013 MHz



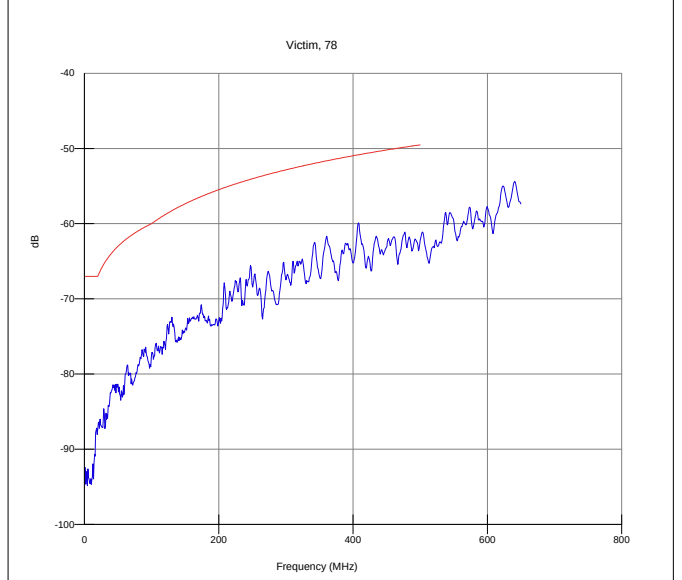
Limit Margin : 6.071 dB @ 408.873 MHz



Limit Margin : 6.254 dB @ 355.289 MHz



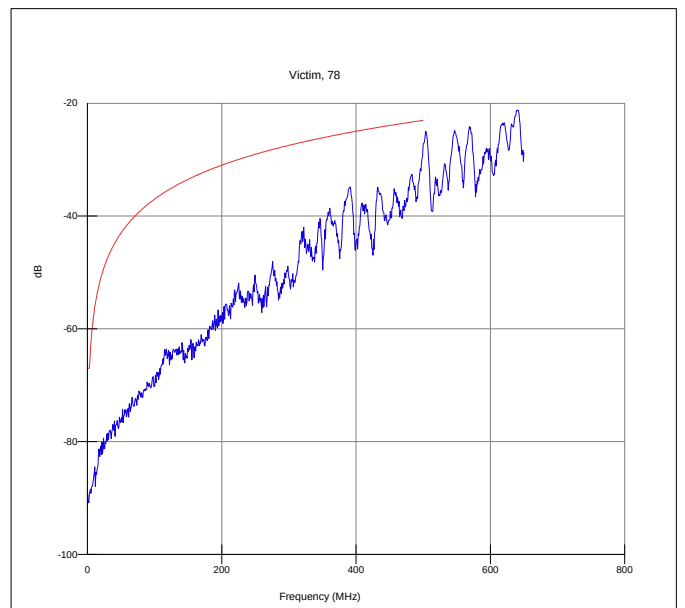
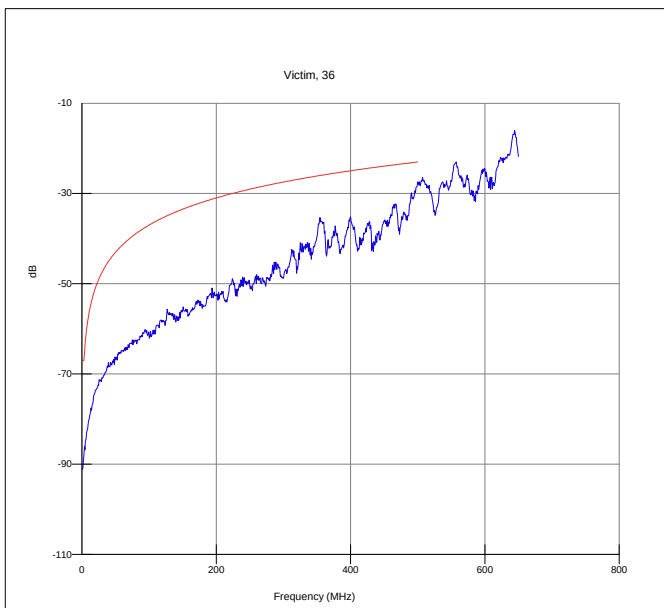
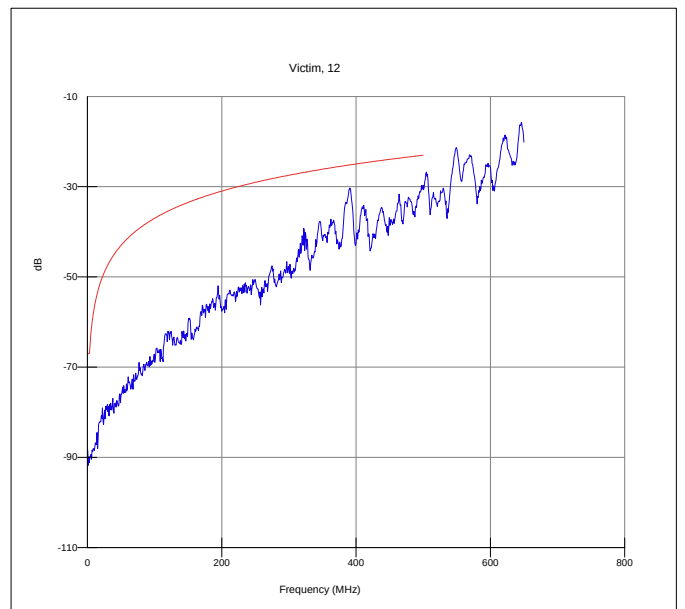
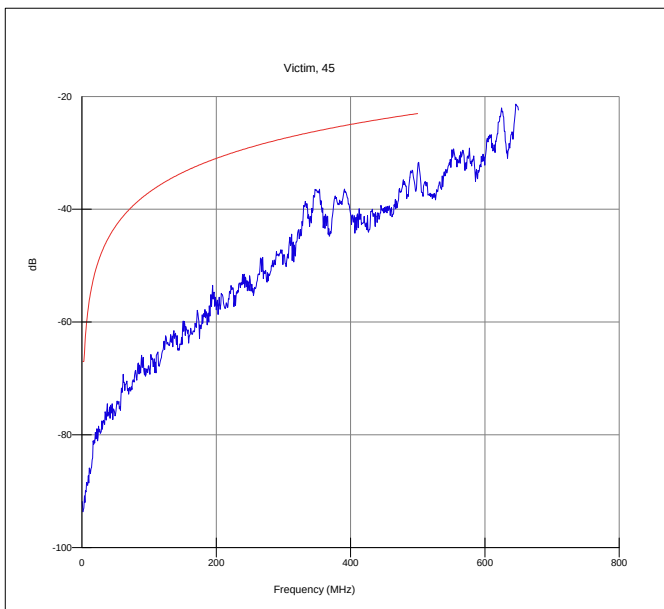
Limit Margin : 9.052 dB @ 408.061 MHz





PSAACRF (PSAELFEXT) - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies

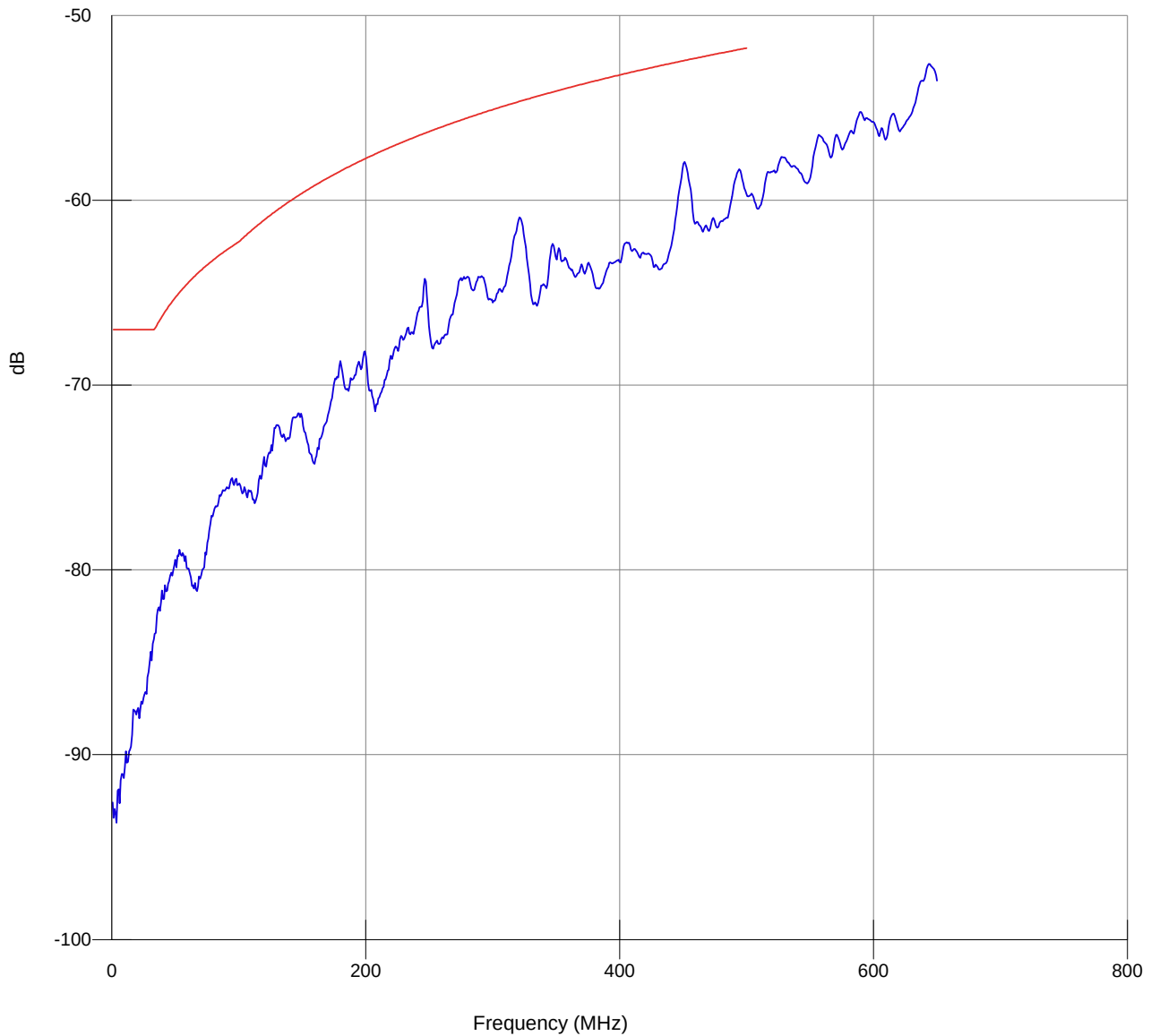




Average PSANEXT - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies

Limit Margin : 5.496 dB @ 451.091 MHz

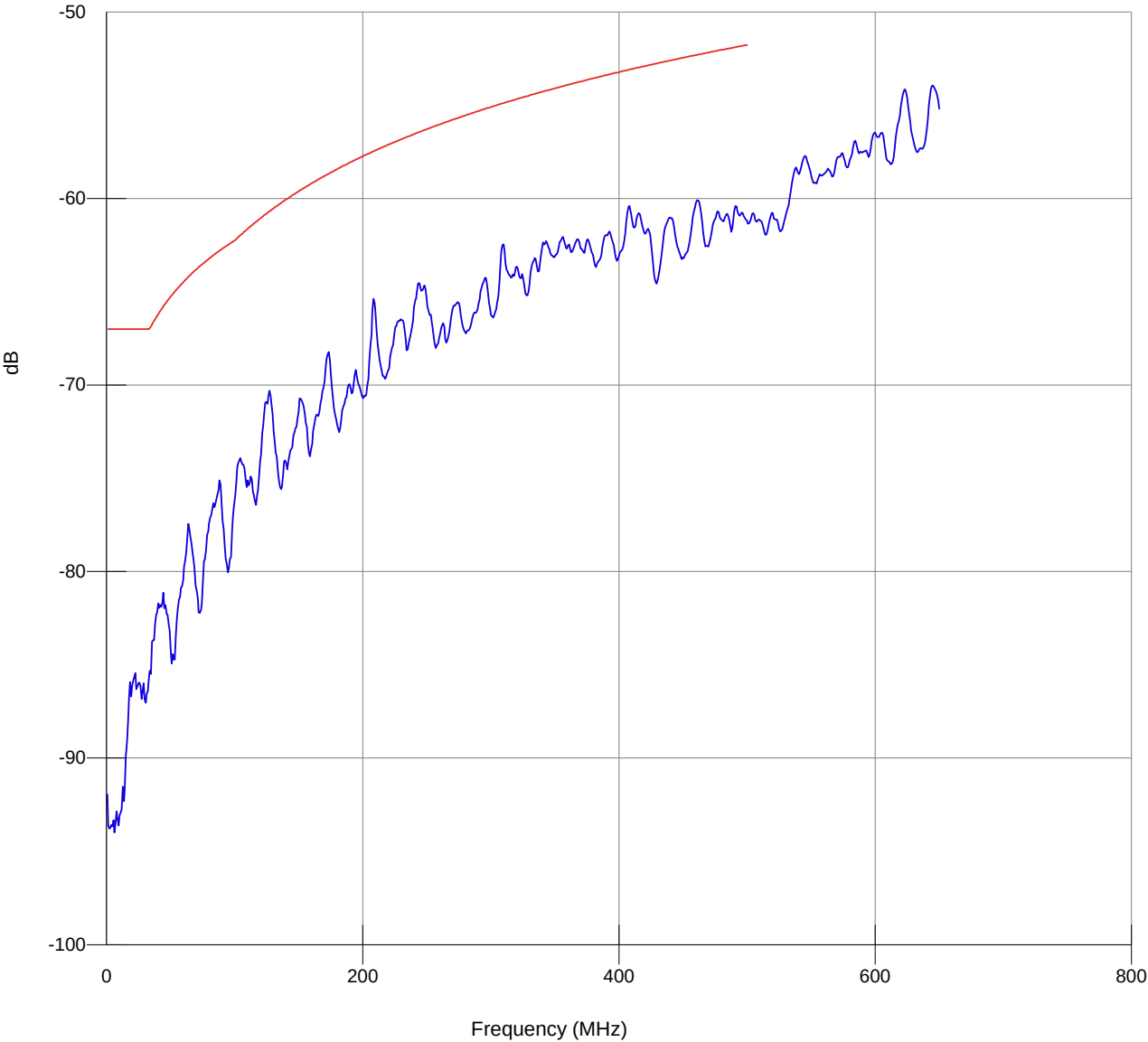




Average PSANEXT - Far End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies

Limit Margin : 7.308 dB @ 408.061 MHz





Average PSAACRF (PSAELFEXT) - Near End

Client	Panduit	Report No	102765989CRT-001j
Specification	ANSI-TIA-568-C2 Cat 6A Channel		
Part No	GenSPEED 10 MTP	Length(m)	100.
Test Started	2/18/2017 12:26:39 PM	Temperature	22.7 °C
Description	4 Connector Channel	Appendix	B
Operator Name	David Ayers	Test Status	Complies

