

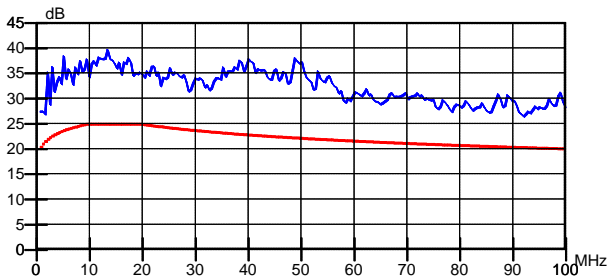
Test Standard: TIA/EIA-568-B.2 CAT 5e FTP Horizontal
 Customer : HCS
 Reel Number: AFT.JACK

Test Result: PASS

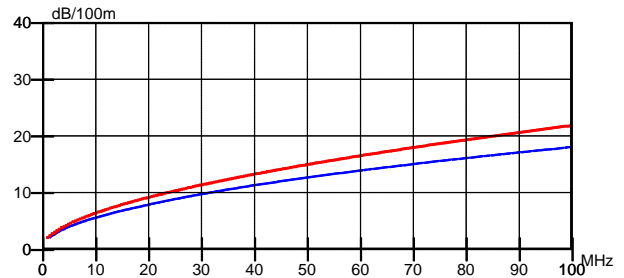
Worst Case Results

Parameter	Specification	Measured	Margin	Freq. [MHz]
RL [dB]	21.08	26.92	5.84	1.65
Attenuation [dB/100m]	2.24	2.17	0.07	1.21
NEXT [dB]	41.05	54.18	13.13	41.37
PS NEXT [dB]	32.60	46.88	14.28	95.50
ELFEXT [dB]	30.93	50.88	19.95	43.99
PS ELFEXT [dB]	28.02	50.34	22.32	43.55
Input Impedance [ohm]	85.00	93.36	8.36	58.39
Prop Delay [ns/100m]	537.60	494.74	42.86	99.87
Delay Skew [ns/100m]	40.00	22.04	17.96	1.21

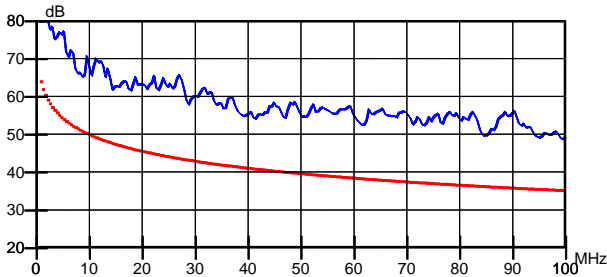
Return Loss



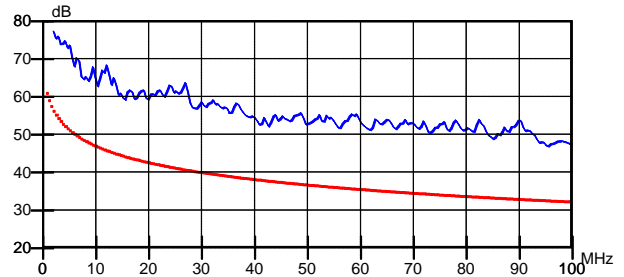
Attenuation



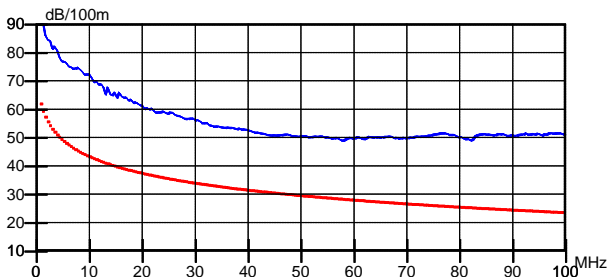
NEXT



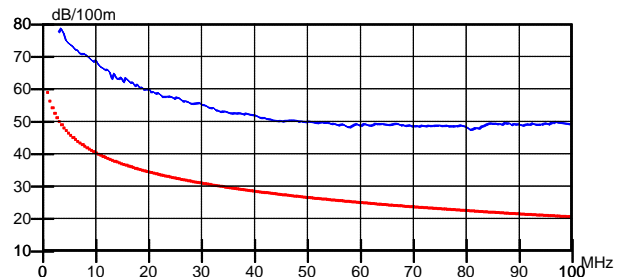
PS NEXT



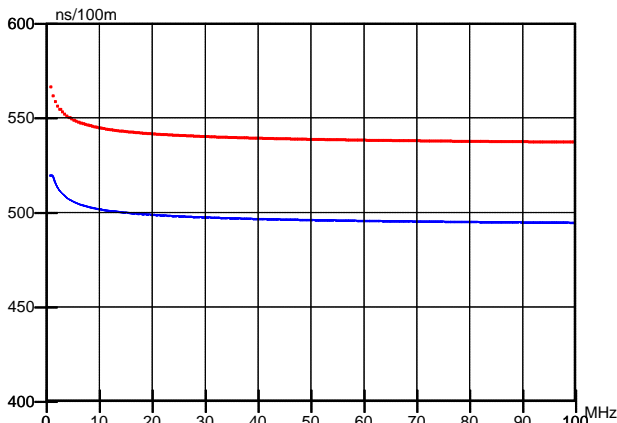
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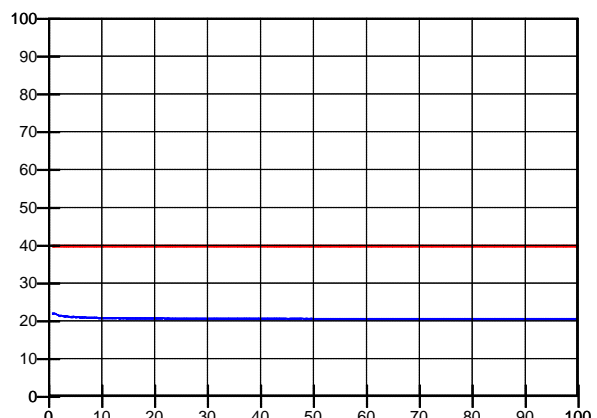
PS ELFEXT



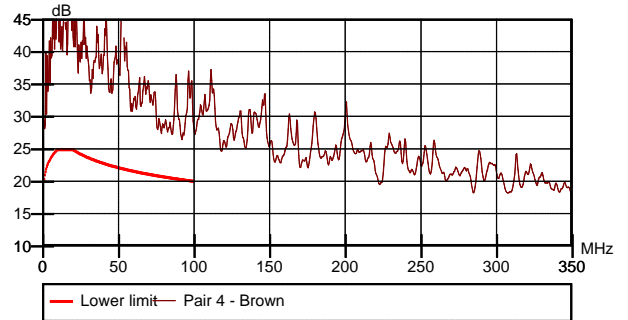
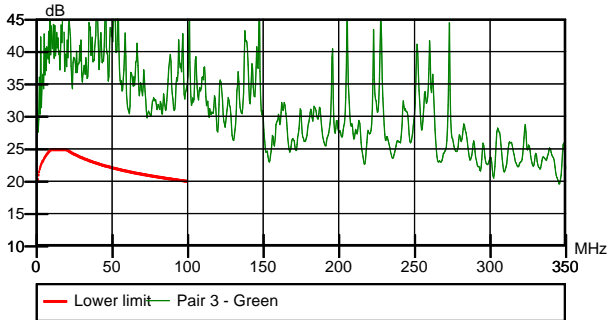
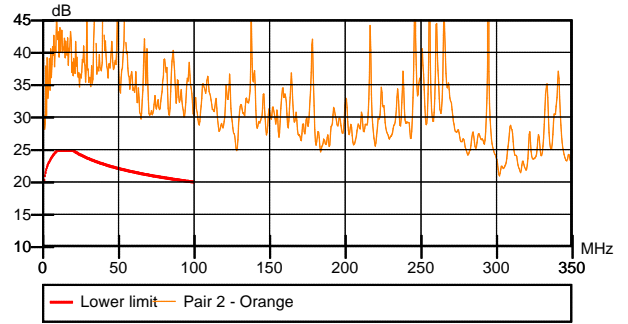
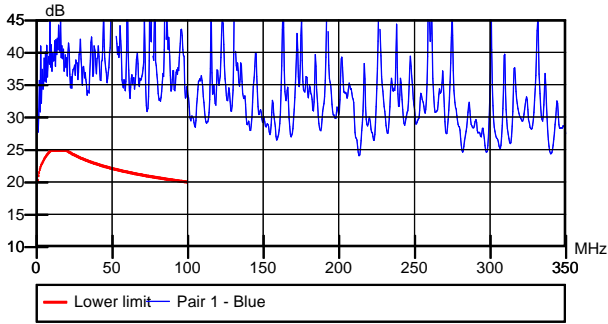
Phase Delay



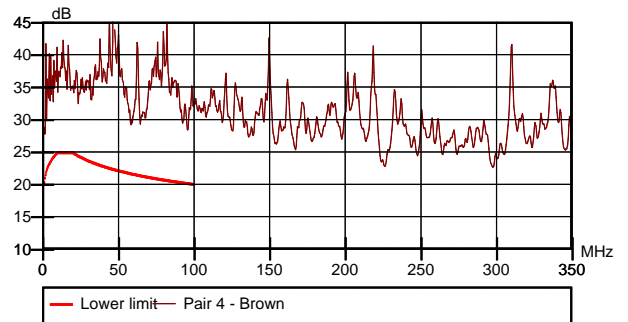
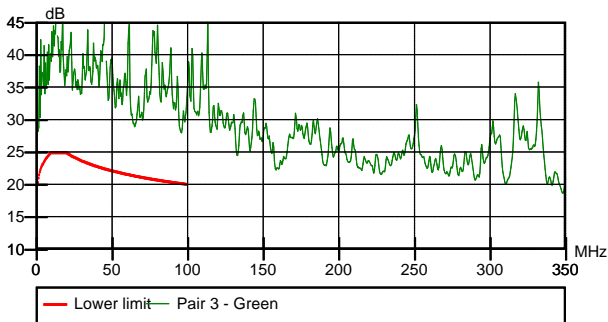
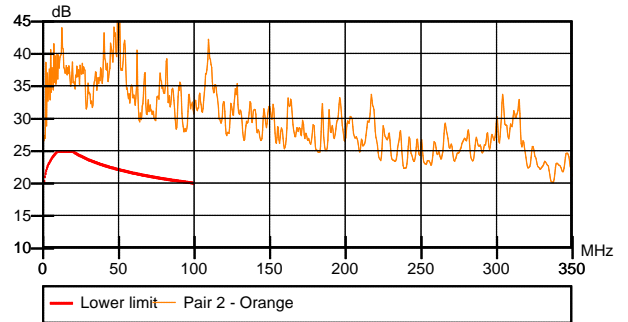
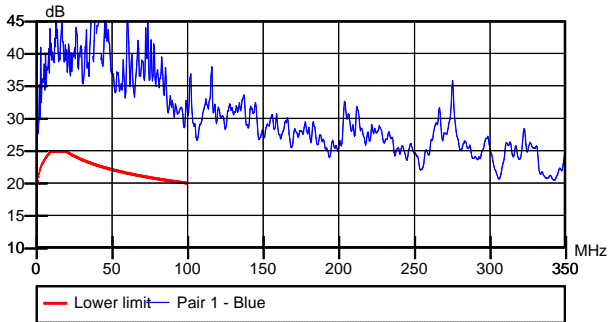
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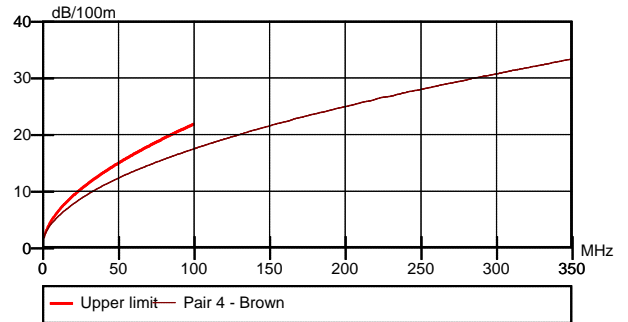
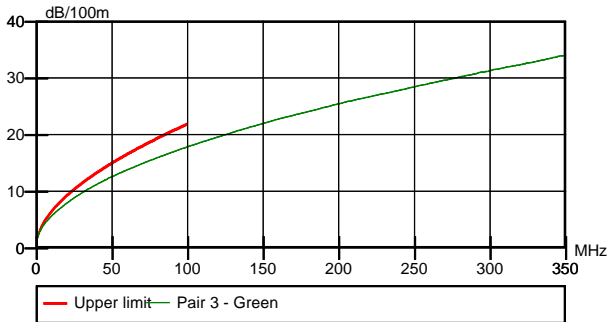
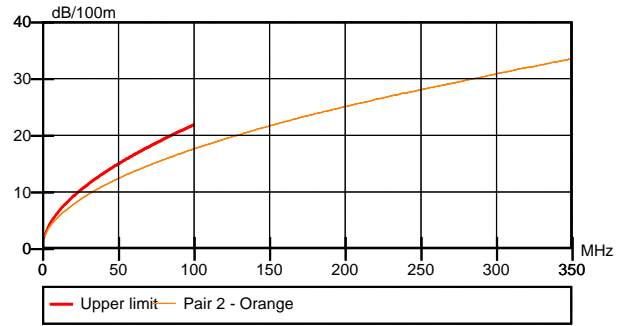
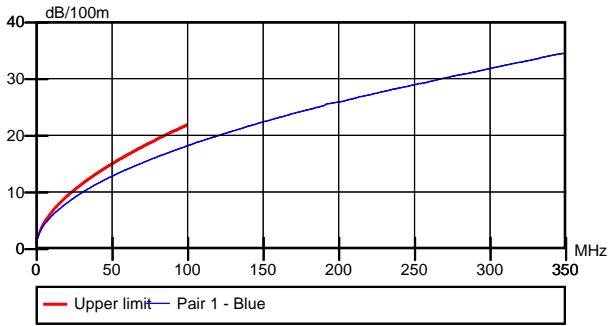
Return Loss Forward



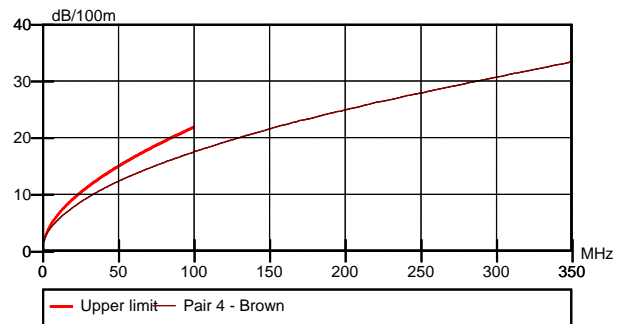
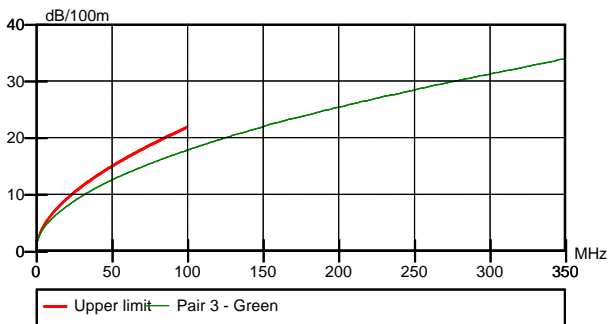
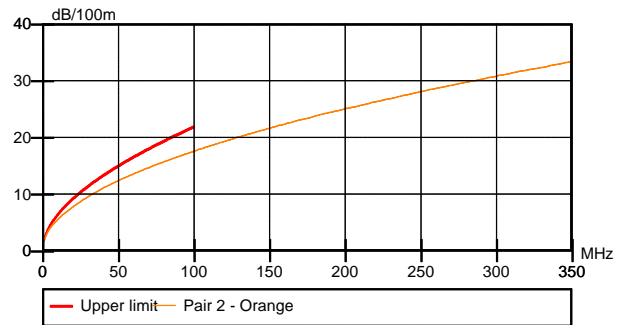
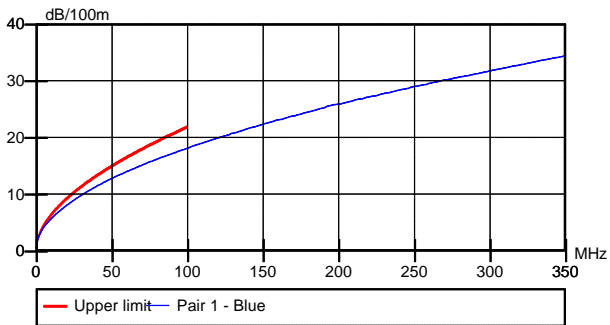
Return Loss Reverse



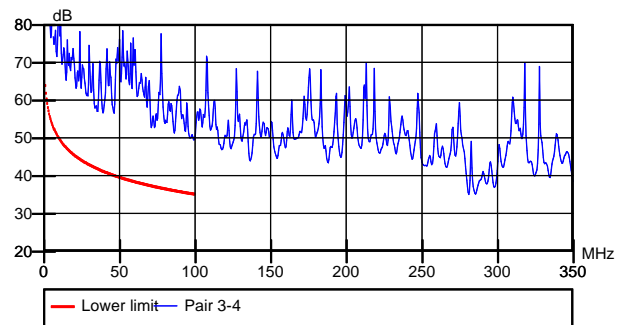
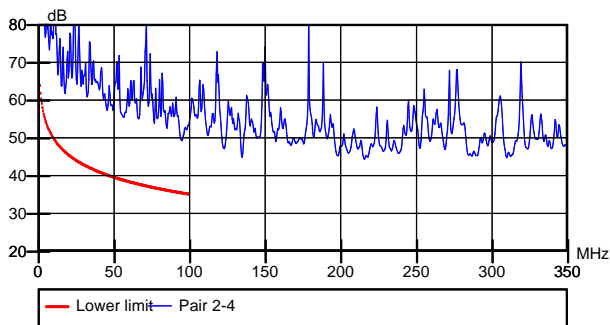
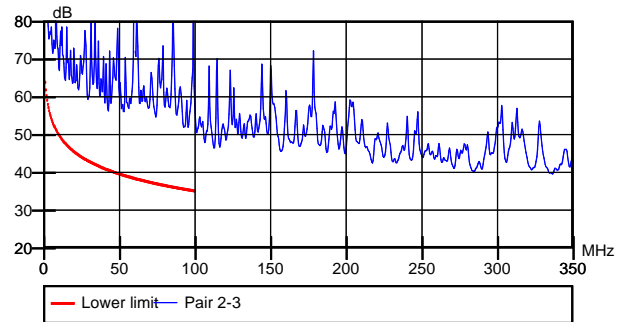
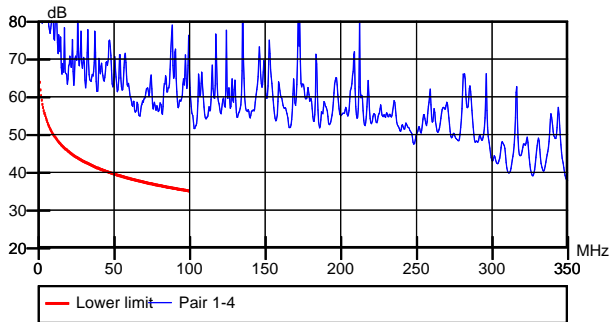
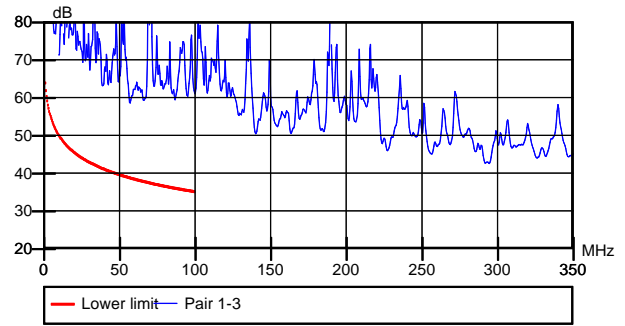
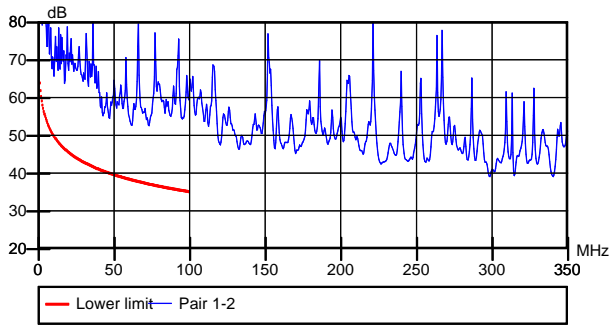
Pair	Margin dB	Value dB	Freq. MHz
1	7.28	27.69	1.21
2	7.74	28.15	1.21
3	7.21	27.62	1.21
4	6.07	26.43	92.01
1 REV	7.19	27.60	1.21
2 REV	5.84	26.92	1.65
3 REV	7.47	28.89	64.94
4 REV	6.72	27.80	1.65



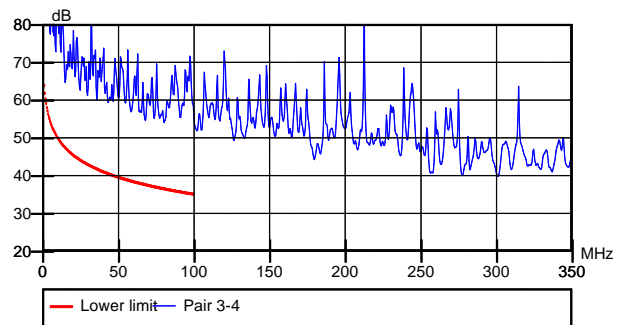
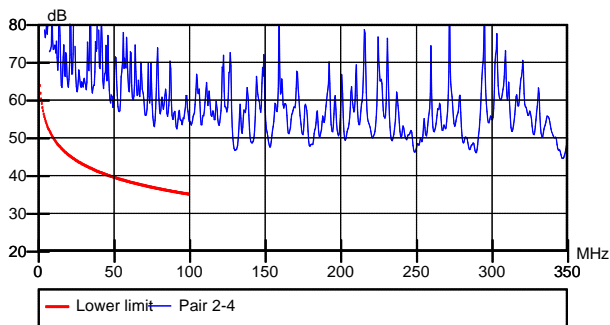
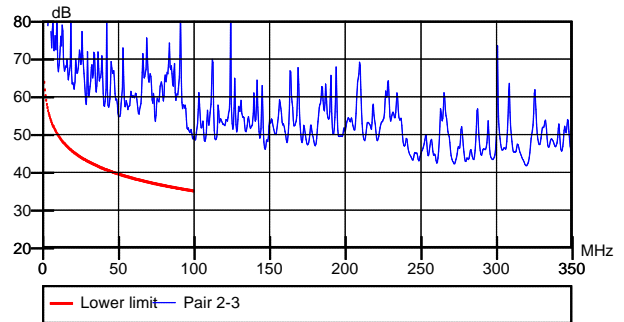
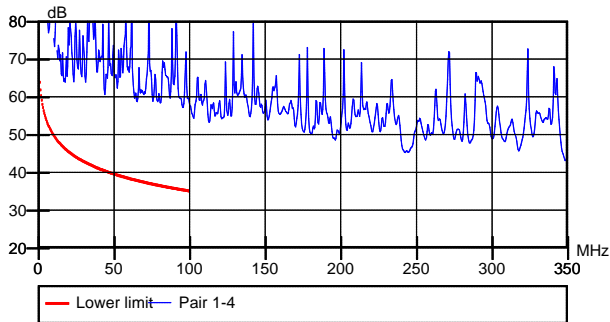
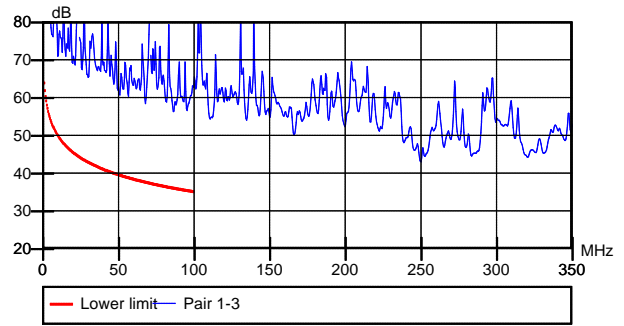
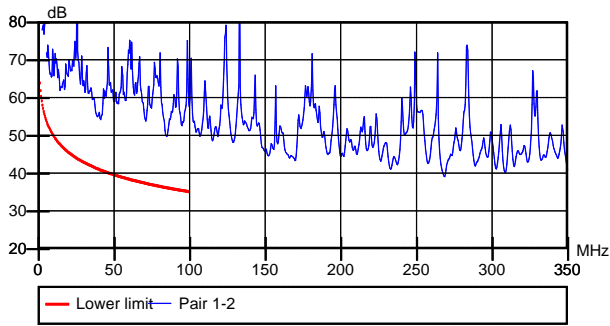
Attenuation Reverse



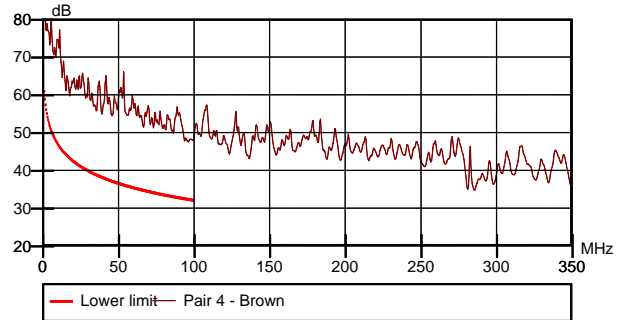
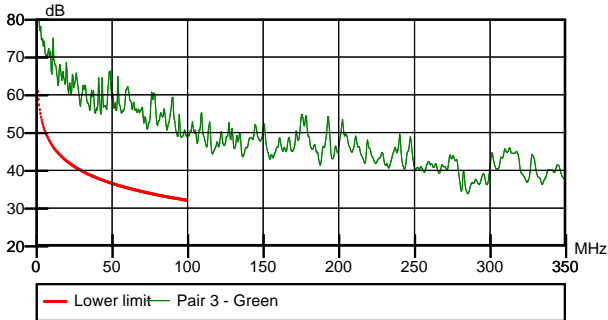
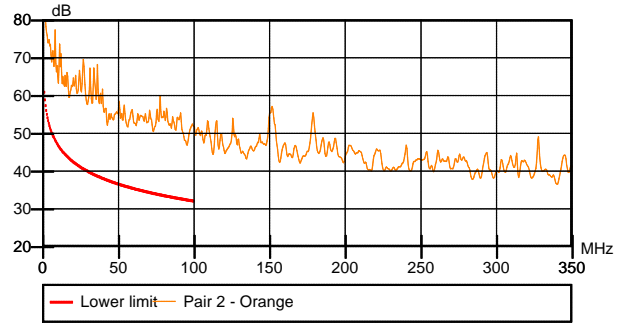
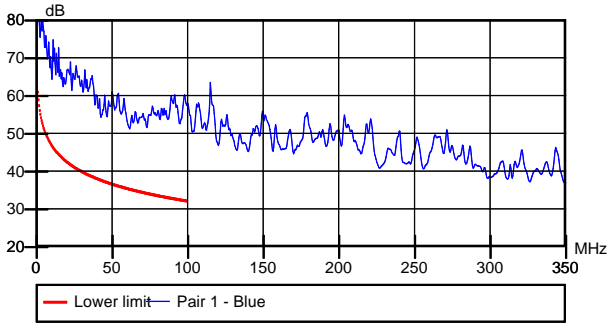
Pair	Margin dB/100m	Value dB/100m	Freq. MHz
1	0.09	2.15	1.21
2	0.12	2.12	1.21
3	0.09	2.14	1.21
4	0.08	2.15	1.21
1 REV	0.07	2.16	1.21
2 REV	0.12	2.12	1.21
3 REV	0.07	2.17	1.21
4 REV	0.14	2.10	1.21



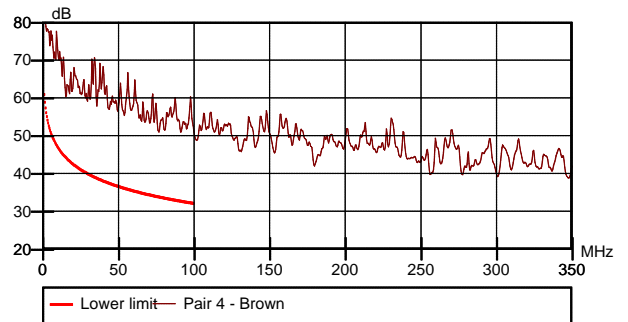
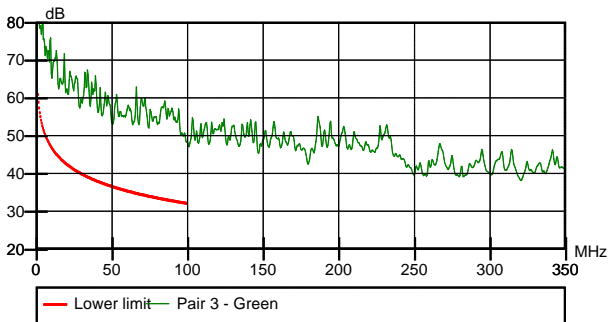
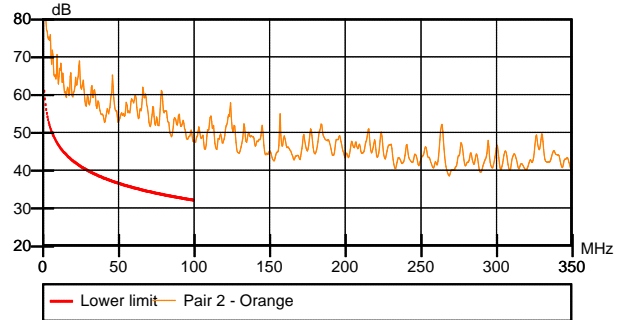
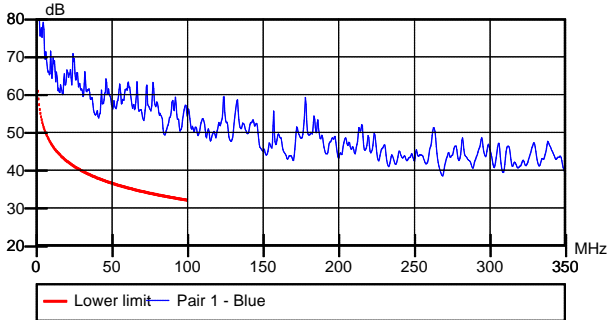
Pair	Margin dB	Value dB	Freq. MHz
1-2	14.20	52.67	61.45
1-3	19.58	58.53	57.09
1-4	17.04	54.93	67.13
2-3	15.44	56.29	42.68
2-4	13.57	49.20	95.06
3-4	14.14	49.50	98.99
1-2 REV	13.13	54.18	41.37
1-3 REV	20.00	56.26	86.33
1-4 REV	17.17	64.05	16.92
2-3 REV	13.47	48.81	99.43
2-4 REV	15.88	63.28	15.61
3-4 REV	16.76	54.58	68.00



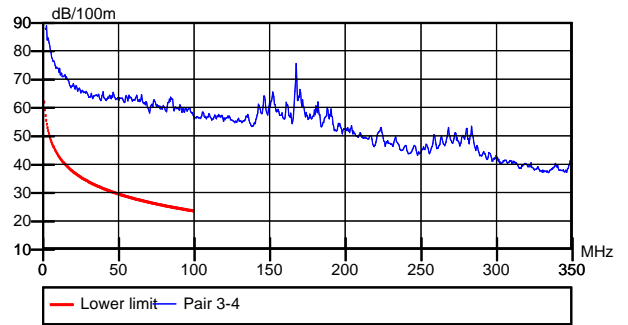
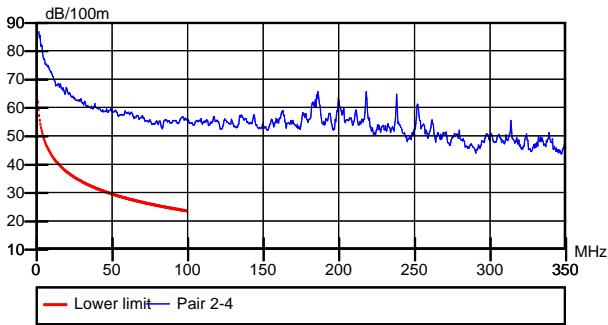
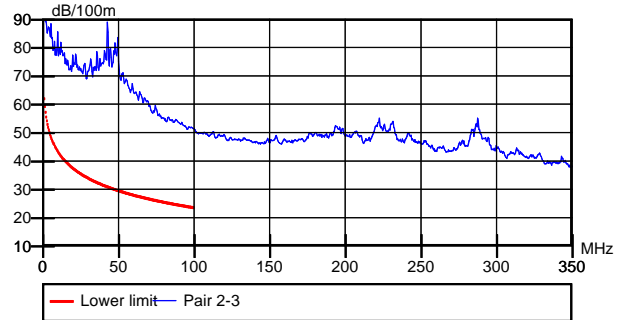
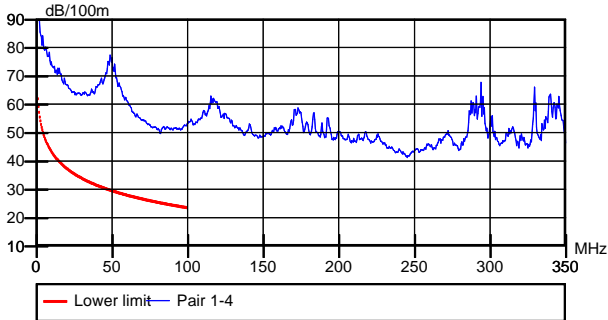
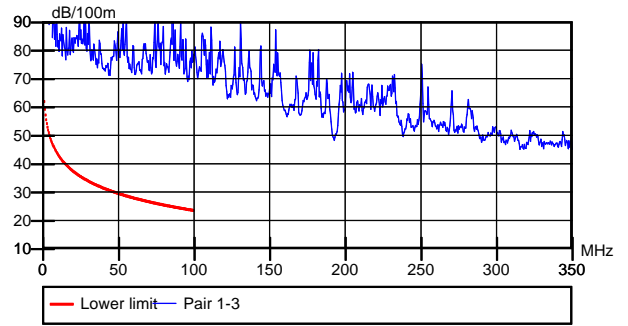
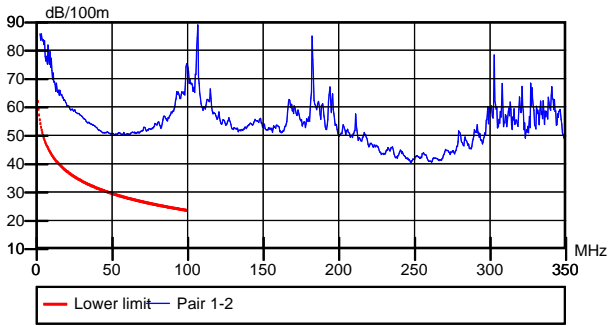
Pair	Margin dB	Value dB	Freq. MHz
1-2	14.20	52.67	61.45
1-3	19.58	58.53	57.09
1-4	17.04	54.93	67.13
2-3	15.44	56.29	42.68
2-4	13.57	49.20	95.06
3-4	14.14	49.50	98.99
1-2 REV	13.13	54.18	41.37
1-3 REV	20.00	56.26	86.33
1-4 REV	17.17	64.05	16.92
2-3 REV	13.47	48.81	99.43
2-4 REV	15.88	63.28	15.61
3-4 REV	16.76	54.58	68.00



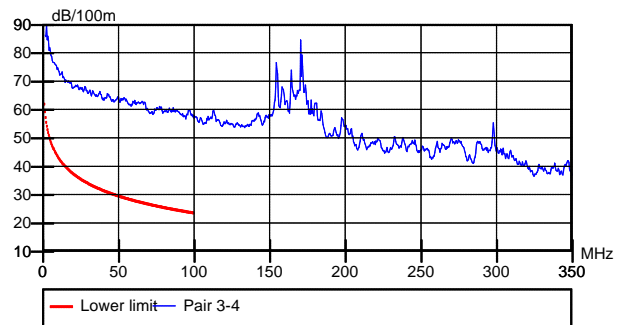
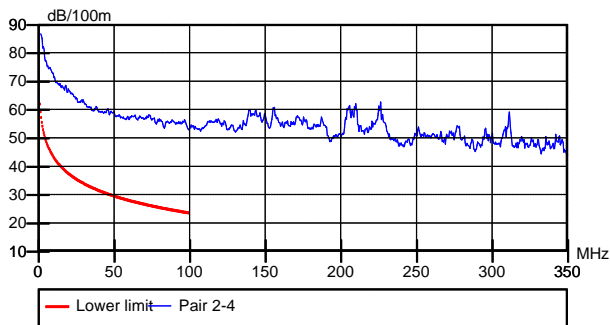
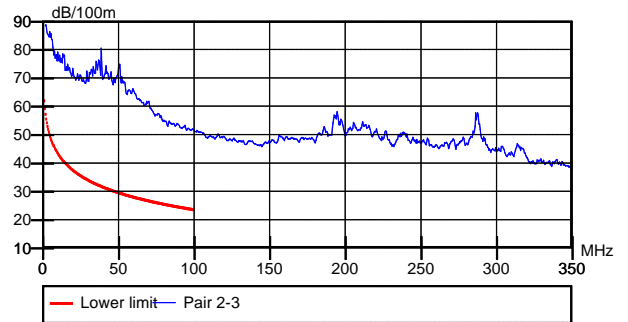
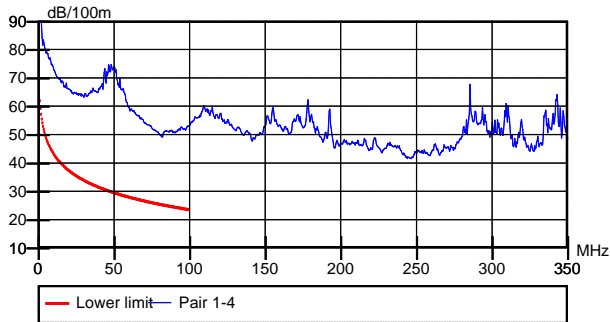
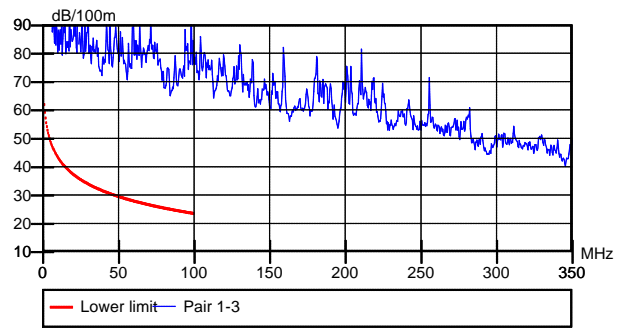
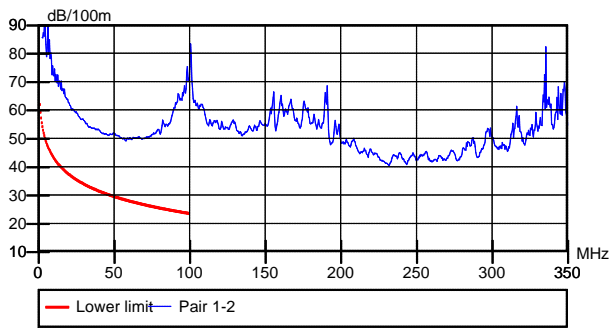
PS NEXT Reverse



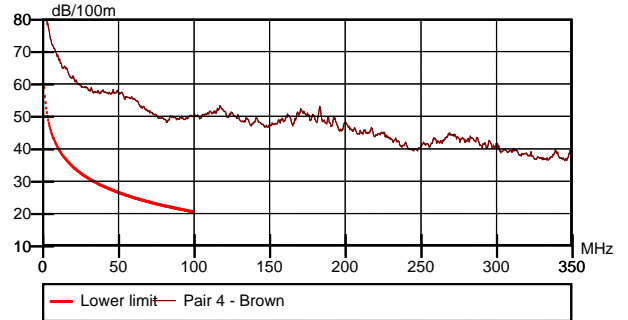
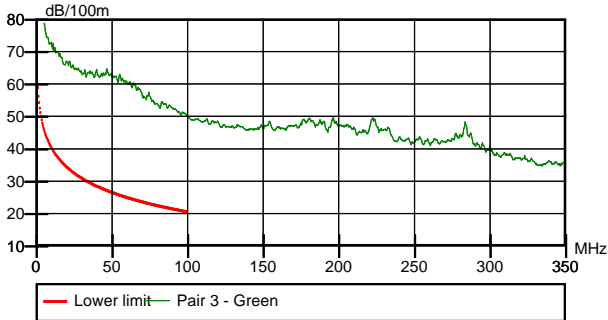
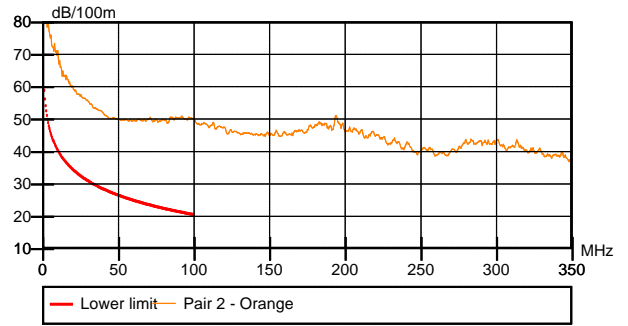
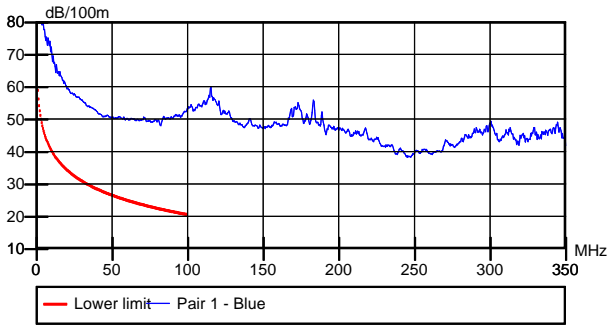
Pair	Margin dB	Value dB	Freq. MHz
1	15.76	51.18	61.89
2	14.28	46.88	95.50
3	16.14	48.71	95.94
4	14.99	47.53	96.37
1 REV	15.82	53.87	41.37
2 REV	14.54	52.66	40.93
3 REV	15.92	48.26	99.43
4 REV	15.74	60.32	15.18



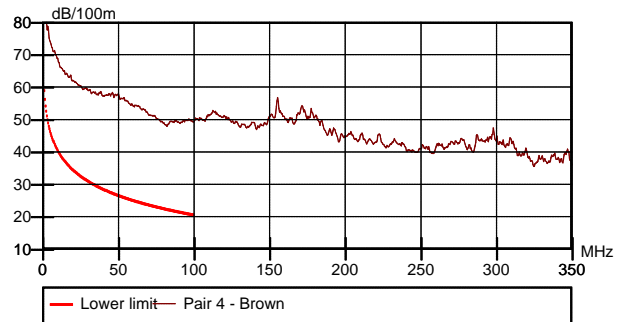
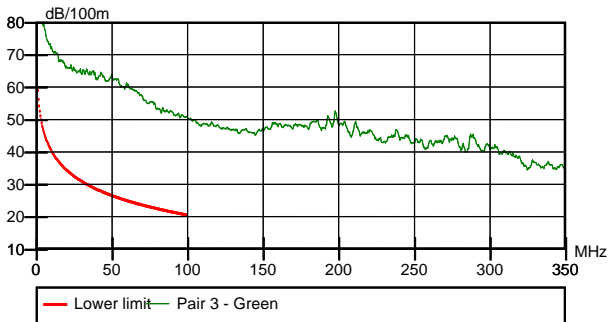
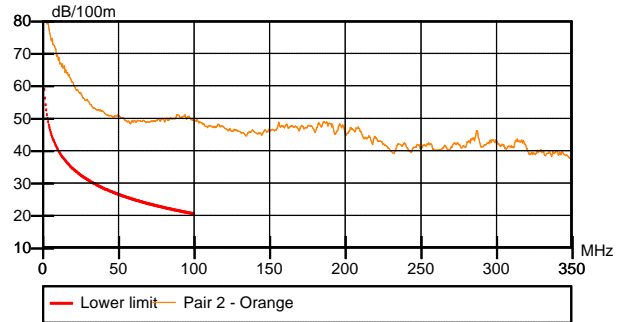
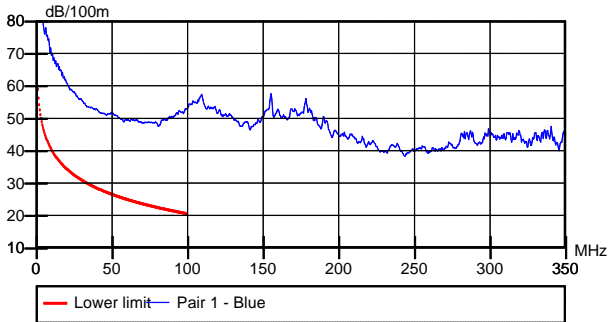
Pair	Margin dB/100m	Value dB/100m	Freq. MHz
1-2	19.95	50.88	43.99
1-3	34.85	92.29	2.08
1-4	24.17	49.70	81.97
2-3	26.97	51.17	95.50
2-4	26.05	67.57	12.99
3-4	28.29	87.77	1.65
1-2 REV	20.44	51.73	42.24
1-3 REV	35.27	92.70	2.08
1-4 REV	23.59	49.12	81.97
2-3 REV	27.18	51.42	95.06
2-4 REV	26.69	77.05	4.70
3-4 REV	26.69	86.16	1.65



Pair	Margin dB/100m	Value dB/100m	Freq. MHz
1-2	19.95	50.88	43.99
1-3	34.85	92.29	2.08
1-4	24.17	49.70	81.97
2-3	26.97	51.17	95.50
2-4	26.05	67.57	12.99
3-4	28.29	87.77	1.65
1-2 REV	20.44	51.73	42.24
1-3 REV	35.27	92.70	2.08
1-4 REV	23.59	49.12	81.97
2-3 REV	27.18	51.42	95.06
2-4 REV	26.69	77.05	4.70
3-4 REV	26.69	86.16	1.65

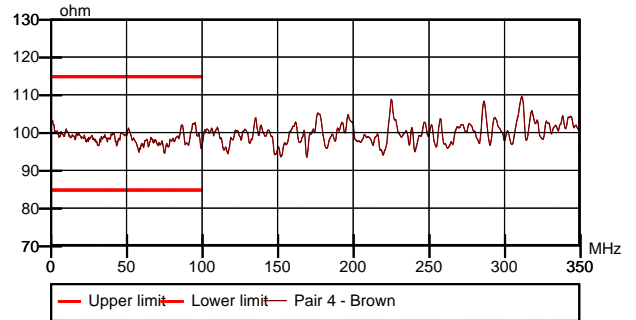
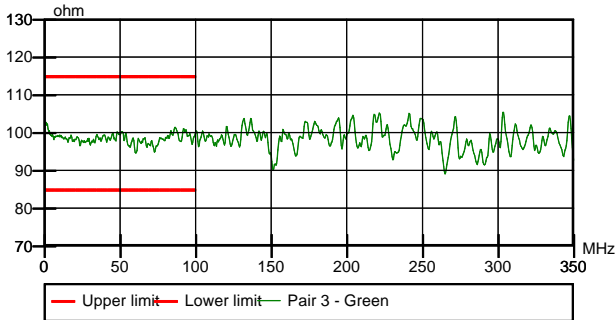
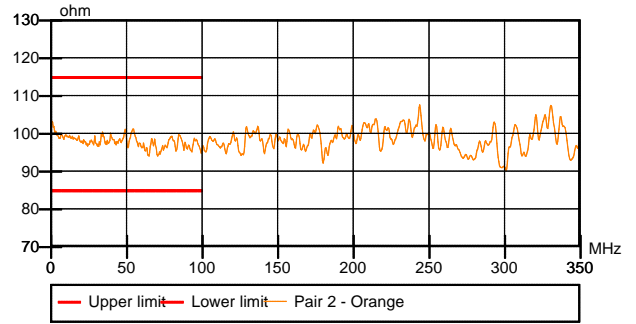
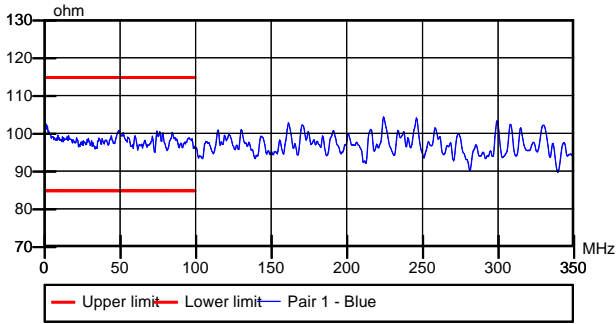


PS ELFEXT Reverse

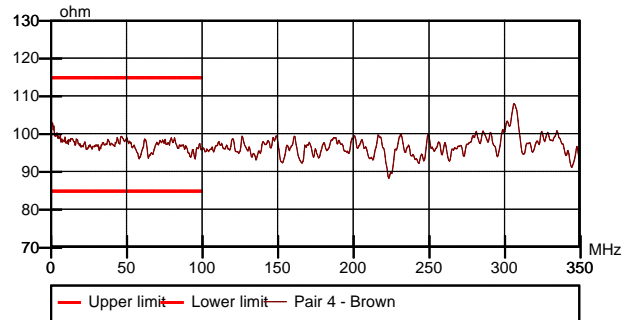
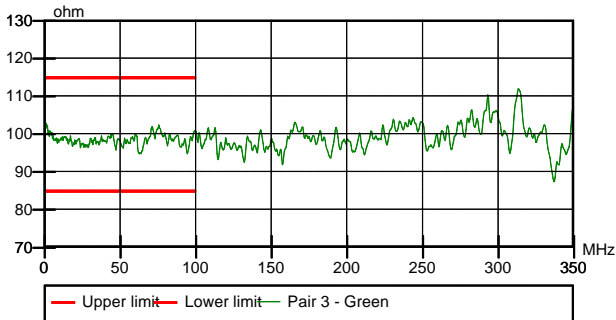
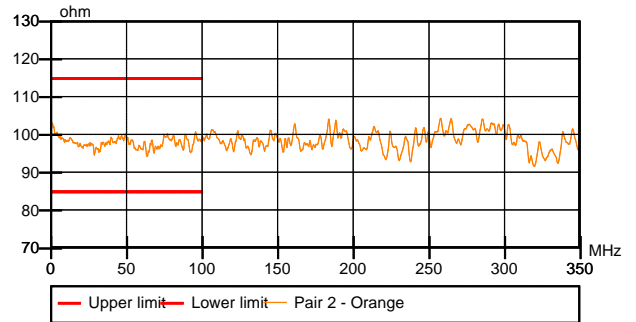
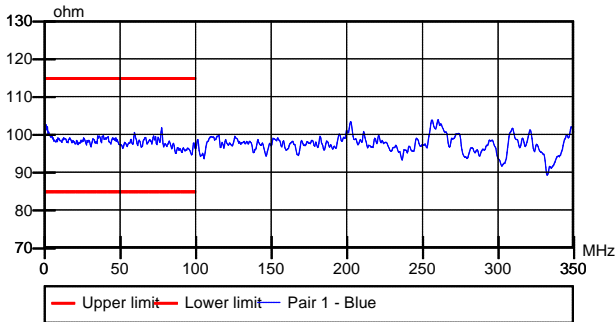


Pair	Margin Ohm	Value Ohm	Freq. MHz
1	22.82	50.75	43.99
1 REV	23.26	53.56	33.51
2	22.32	50.34	43.55
2 REV	22.69	50.71	43.55
3	28.82	85.30	1.65
3 REV	27.63	84.11	1.65
4	25.66	48.19	81.97
4 REV	25.45	47.97	81.97

Input Impedance Forward

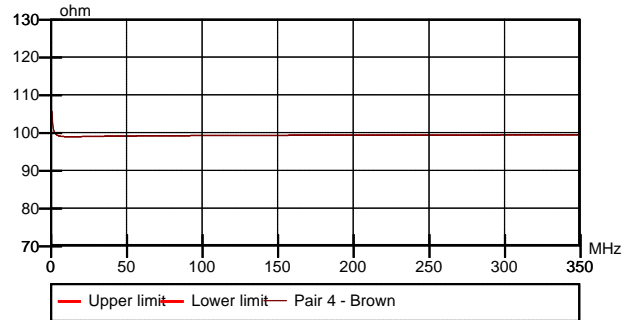
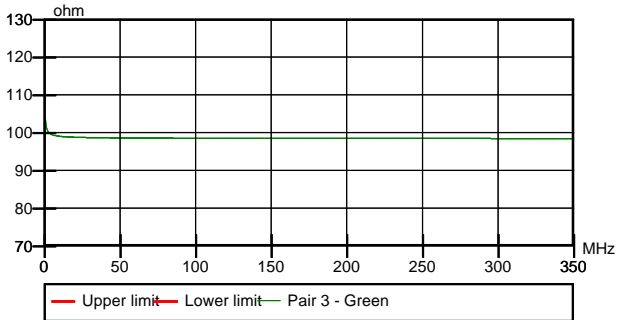
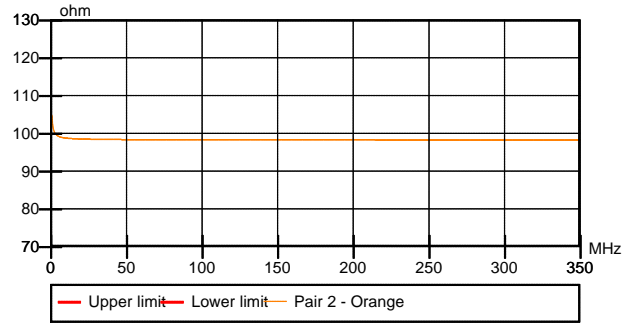
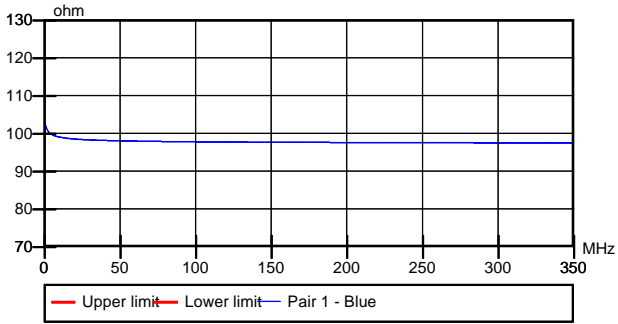


Input Impedance Reverse

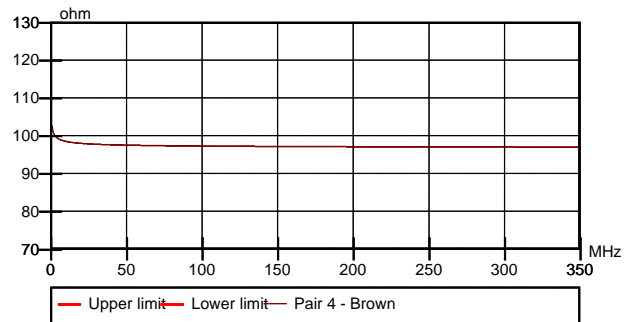
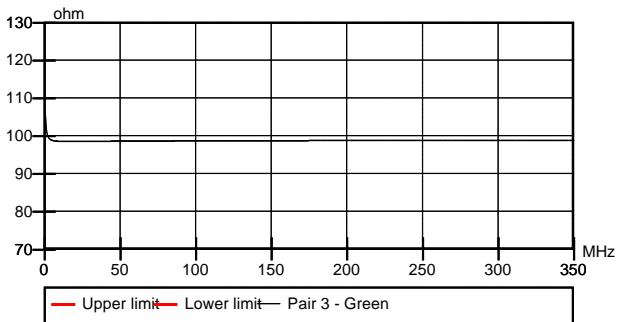
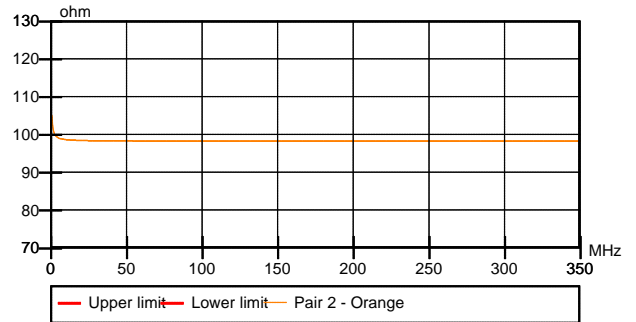
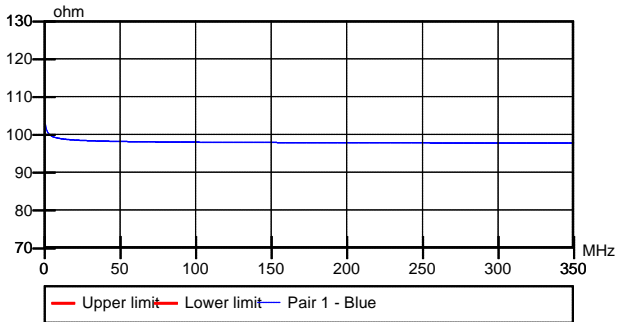


Pair	Margin Ohm	Value Ohm	Freq. MHz
1	10.04	95.04	73.24
2	8.95	93.95	64.94
3	9.62	94.62	60.58
4	9.46	94.46	75.42
1 REV	9.61	94.61	97.25
2 REV	9.21	94.21	63.63
3 REV	9.71	94.71	94.63
4 REV	8.36	93.36	58.39

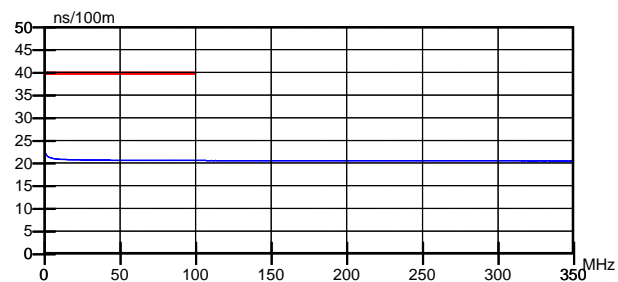
Fitted Impedance Forward



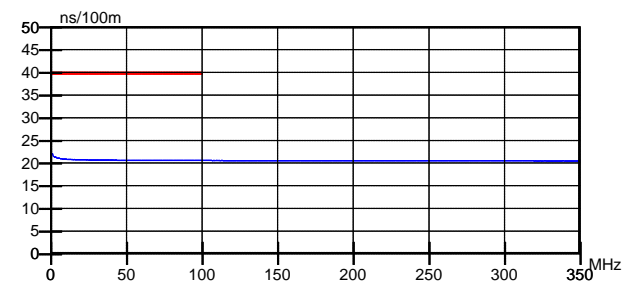
Fitted Impedance Reverse



Delay Skew Forward



Delay Skew Reverse



Attenuation [dB/100m] @ discrete frequencies

Freq. (Mhz)	Pair 1	Pair 2	Pair 3	Pair 4	Spec max
1.000	1.94	1.92	1.95	1.96	2.04
4.000	3.72	3.62	3.66	3.61	4.05
8.000	5.15	4.98	5.05	4.95	5.77
10.000	5.71	5.52	5.60	5.49	6.47
16.000	7.14	6.91	7.02	6.88	8.25
20.000	8.00	7.75	7.87	7.71	9.27
25.000	8.97	8.70	8.83	8.65	10.42
31.250	10.06	9.75	9.89	9.70	11.72
62.500	14.29	13.86	14.03	13.79	16.99
100.000	18.15	17.61	17.84	17.48	21.97

Propagation Delay [ns/100m]

Freq. (MHz)	Pair 1	Pair 2	Pair 3	Pair 4	Upper limit
5.000	506.07	489.39	498.14	484.99	550.10

Volacity of Propagation [%]

Freq. (MHz)	Pair 1	Pair 2	Pair 3	Pair 4	Specs Min.
5.000	65.91	68.16	66.96	68.78	59.66