

DCM Test Report

Cable Type : 4x2x23 x ALL	Factory Number : 2020123104	Data File Name : DA104704.D3S
Cable I.D. : CAT6 LAN CABLE	Order Number : J47210122A009-100M	Specification File : SK-4CT6-396(B).S3S
Temperature : 22.00 癈	Relative Humidity : 50 %	Test Date/Time : 01/25/2021 12:09:39 PM
Length : 100.00 m	Number of Pairs to Test : 4	Operator : GTB
Starting Position : 21		Analyzer Type : ENA

Pass - Fail Test Certificate - 4 Pairs

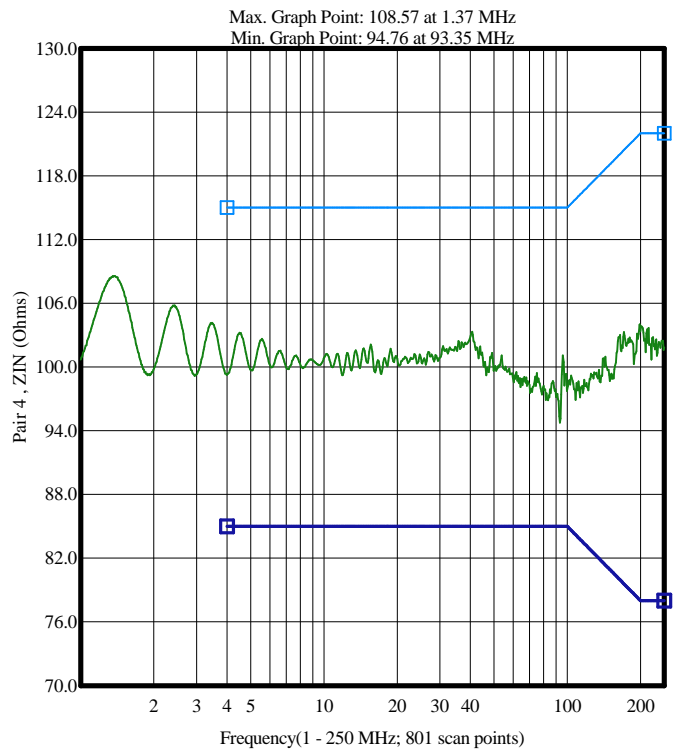
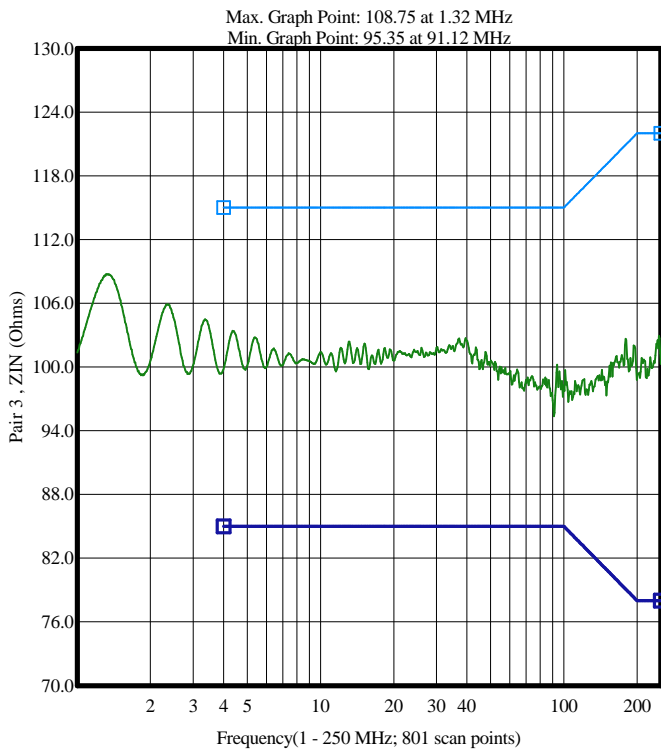
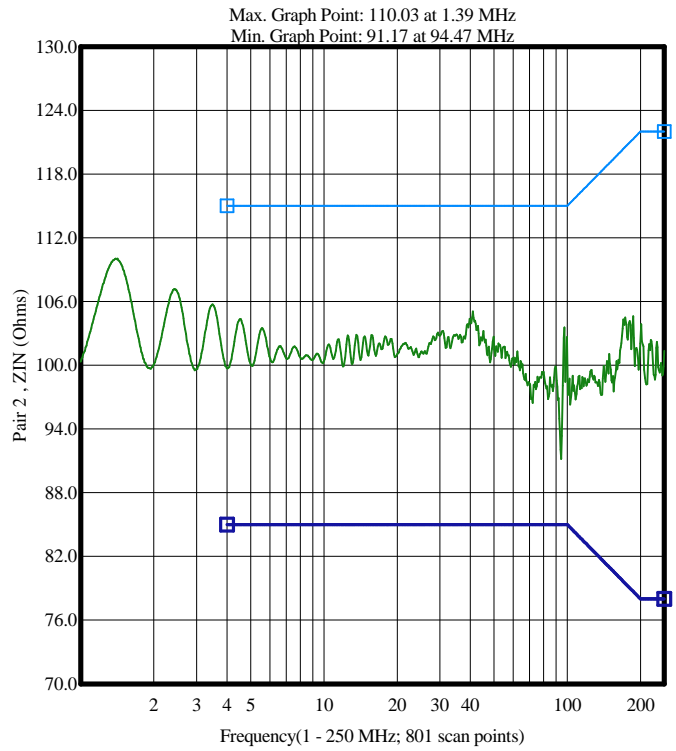
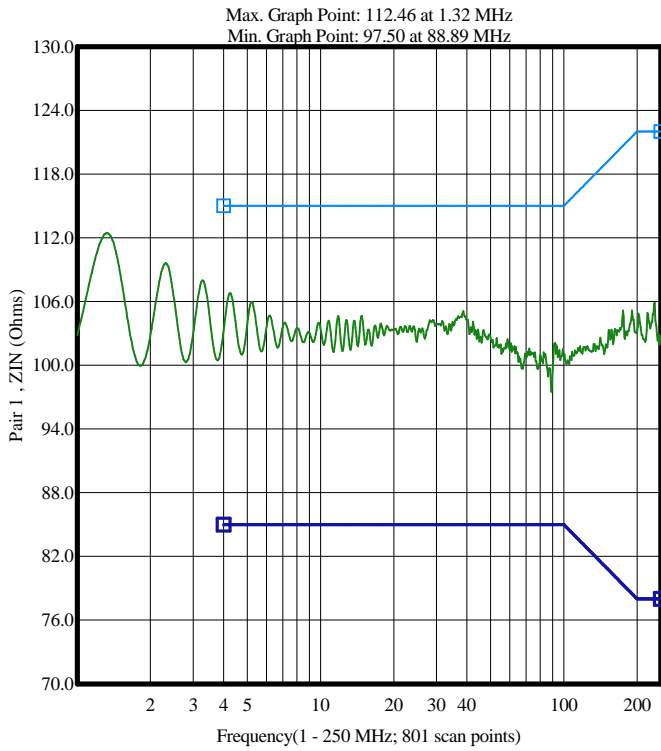
High Frequency

Test Type	Test Result
Input Impedance (Zin)(Ohms)(Terminated)	OK
Characteristic Impedance (Z0)(3rd Order)(Ohms)(Terminated)	OK
Return Loss (RL)(dB)	OK
Insertion Loss (IL)(Curve Fit)(dB/100.0 m)@20C	OK
Near End Crosstalk Loss (NEXT)(dB)	OK
ACR to FEXT Ratio (ACRF)(dB)	OK
Power Sum NEXT(PSNEXT)(dB)	OK
Power Sum ACRF (PSACRF)(dB)	OK
Propagation Delay (DELAY)(ns/100m)	OK
Propagation Delay Skew (SKEW)(ns/100m)	OK

Signature:	Approved:	Date:
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Summary and Graphic: Input Impedance (Zin)(Terminated)

Pair	Specification		Measured(Ohms)		Margin (Ohms)		@ Frequency (MHz)		Test Result
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	
Pair 1 [21]	85.00	115.00	97.50	106.78	12.50	8.22	88.89	4.26	Passed
Pair 2 [22]	85.00	115.00	91.17	105.07	6.17	9.93	94.47	40.92	Passed
Pair 3 [23]	85.00	115.00	95.35	103.41	10.35	11.59	91.12	4.35	Passed
Pair 4 [24]	85.00	115.00	94.76	103.32	9.76	11.68	93.35	40.63	Passed



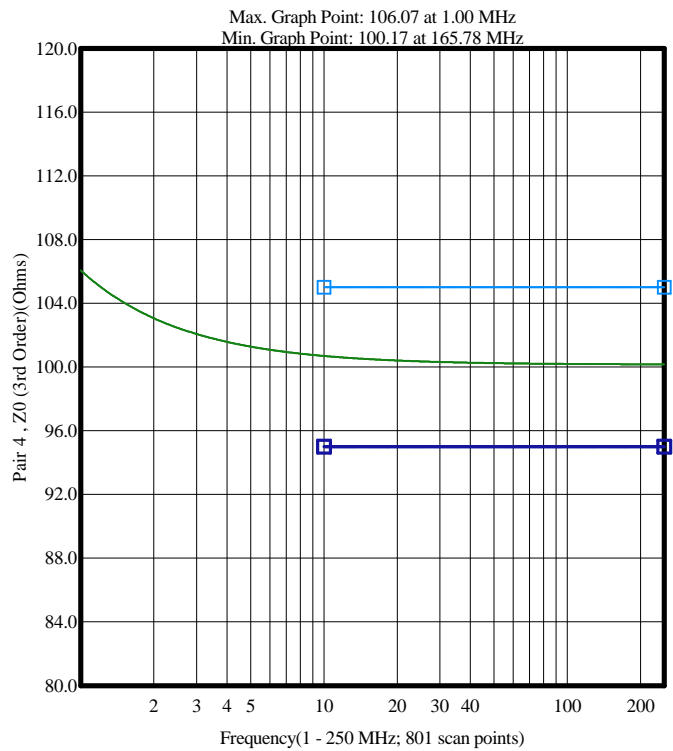
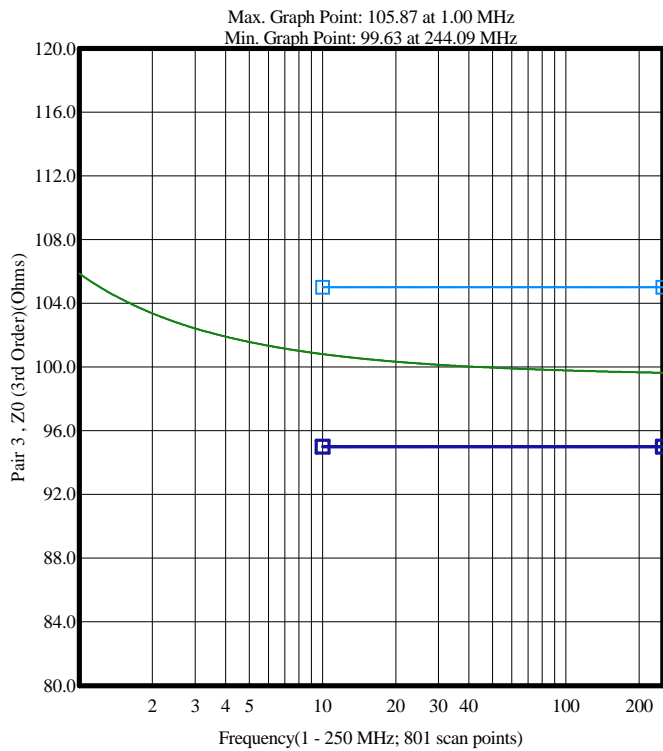
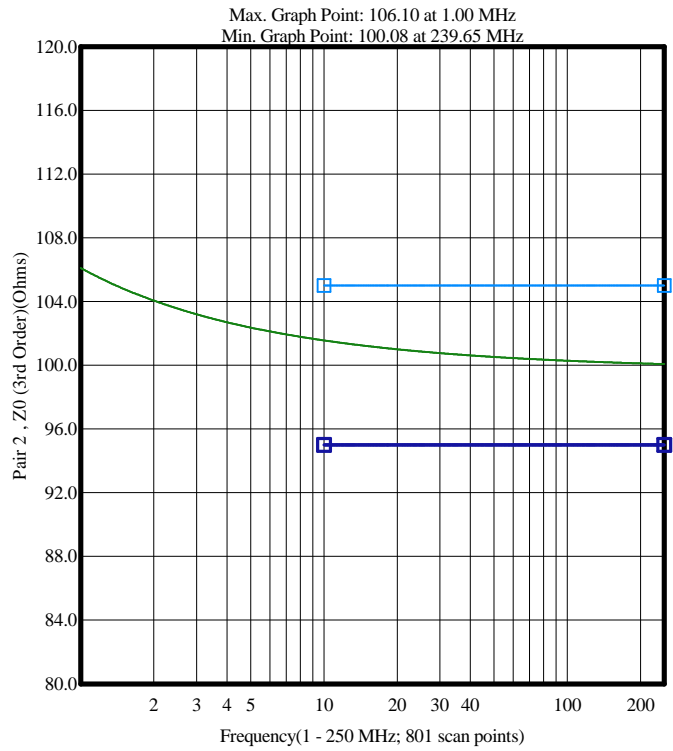
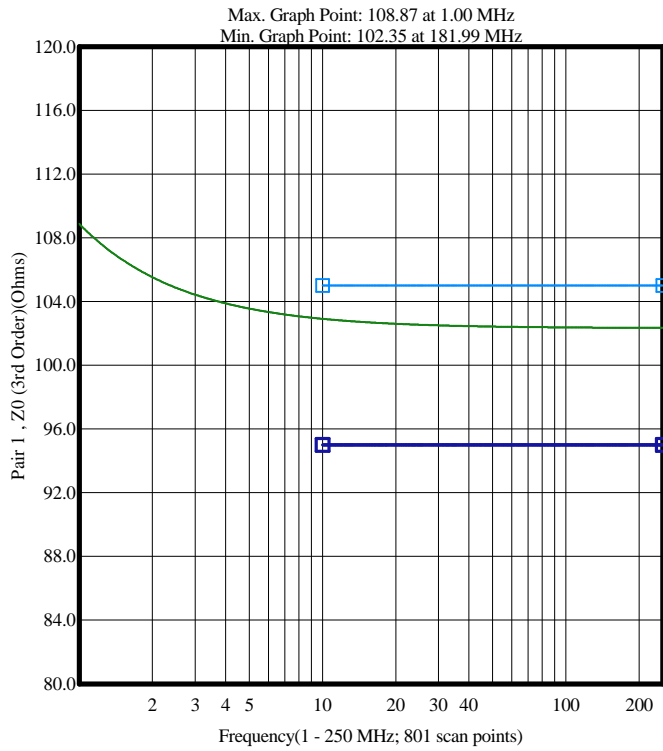
N/A = Not Applicable.
--- = Disable/Bypassed Pair.

* = Measured value out of spec.
xxx = No entry.

*** = Measured value is invalid.

Summary and Graphic: Characteristic Impedance (Z0)(3rd Order)(Terminated)

Pair	Specification		Measured(Ohms)		Margin (Ohms)		@ Frequency (MHz)		Test Result
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	
Pair 1 [21]	95.00	105.00	102.35	102.91	7.35	2.09	181.99	10.07	Passed
Pair 2 [22]	95.00	105.00	100.08	101.55	5.08	3.45	239.65	10.07	Passed
Pair 3 [23]	95.00	105.00	99.63	100.80	4.63	4.20	244.09	10.07	Passed
Pair 4 [24]	95.00	105.00	100.17	100.69	5.17	4.31	165.78	10.07	Passed



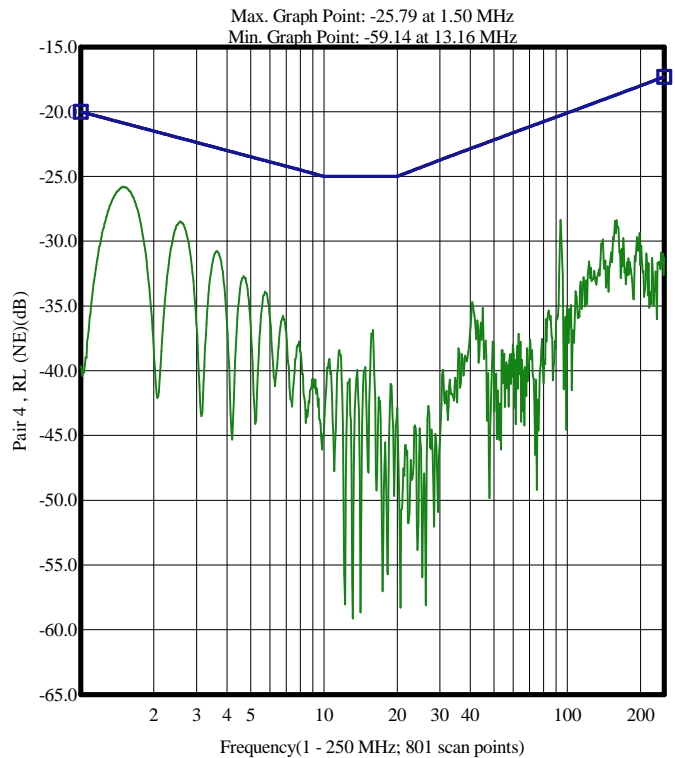
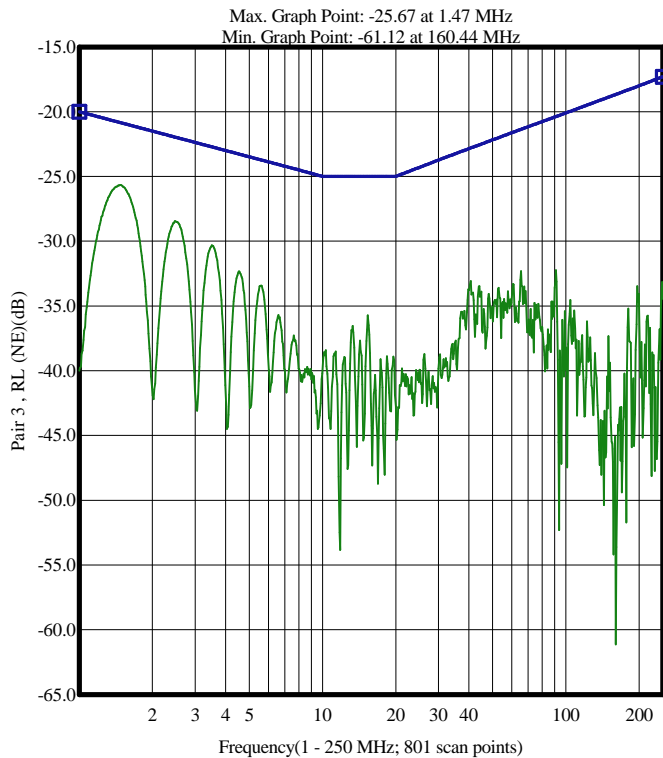
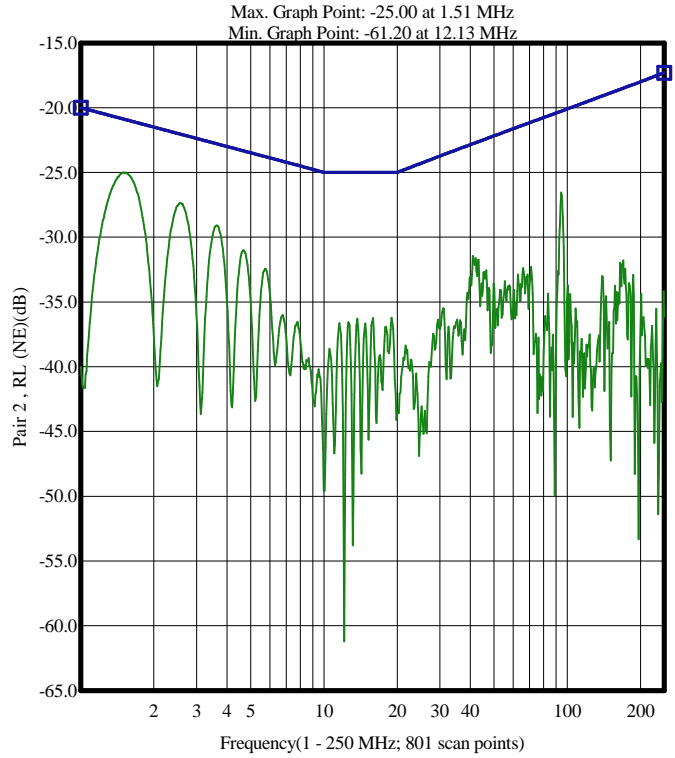
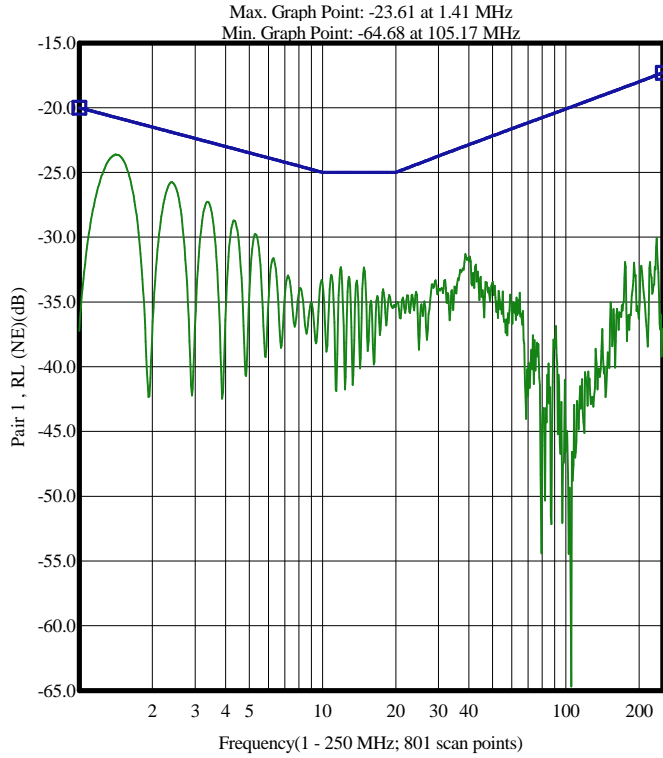
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Summary and Graphic: Return Loss (RL)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 [21]	20.79	23.65	2.86	1.44	Passed
Pair 2 [22]	20.94	25.03	4.09	1.54	Passed
Pair 3 [23]	20.85	25.67	4.82	1.48	Passed
Pair 4 [24]	20.92	25.83	4.91	1.53	Passed



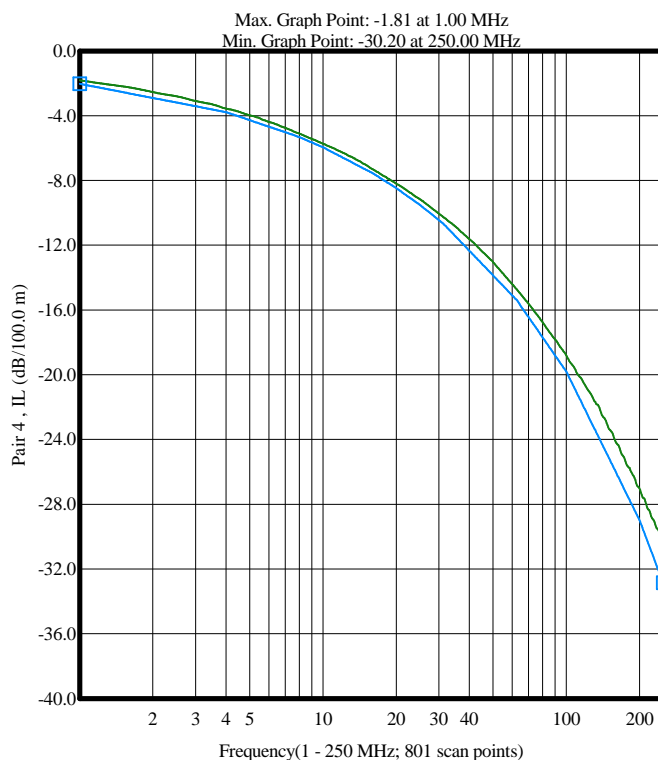
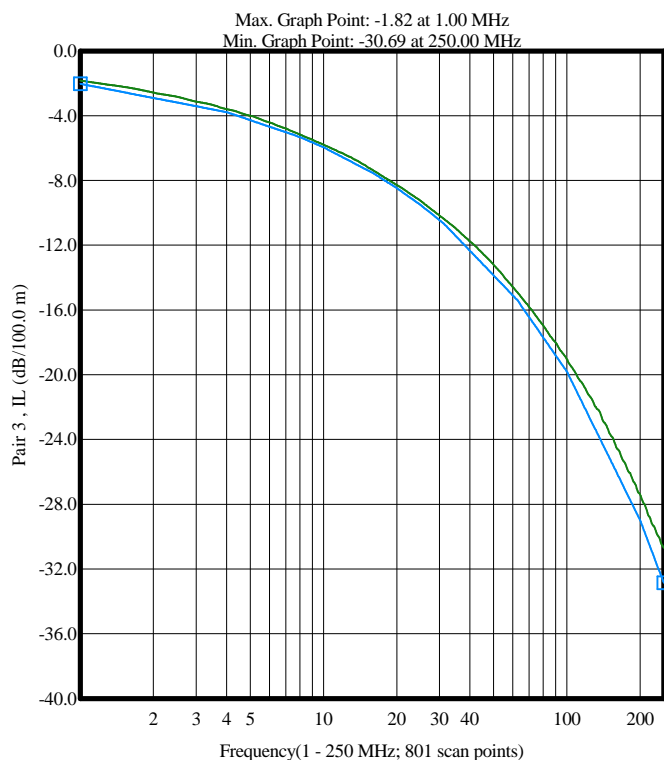
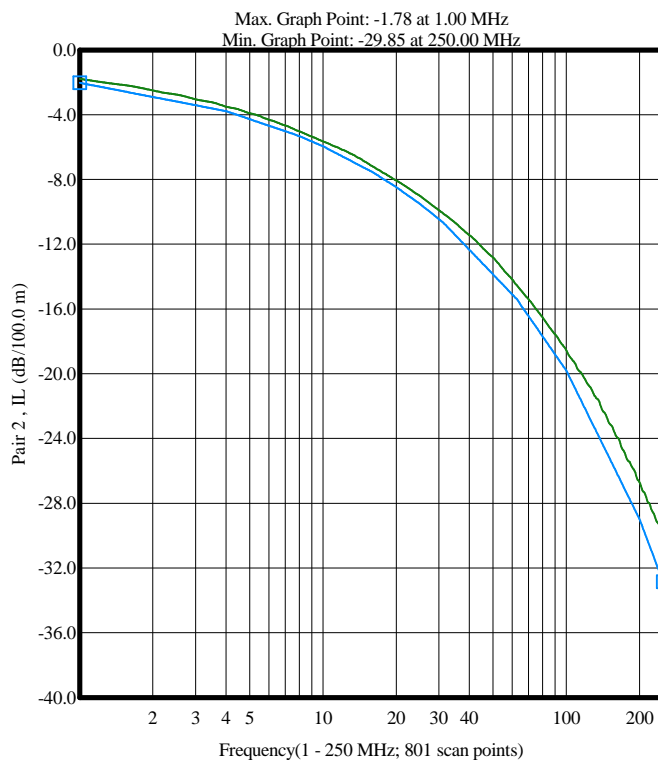
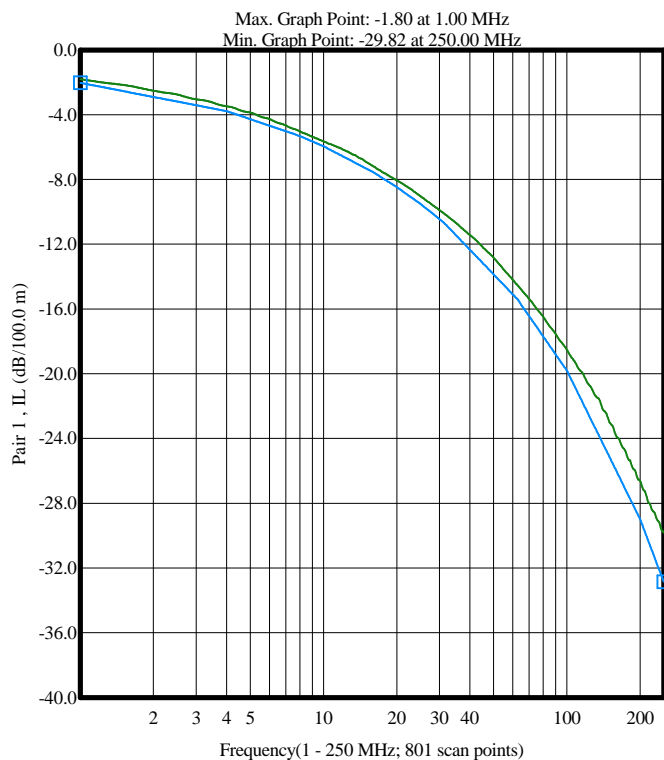
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Summary and Graphic: Insertion Loss (IL)(Curve Fit)@20C

Pair	Spec (Max)(dB/100.0 m)	Measured(dB/100.0 m)	Margin (dB/100.0 m)	@ Frequency (MHz)	Test Result
Pair 1 [21]	2.05	1.82	0.23	1.02	Passed
Pair 2 [22]	2.03	1.78	0.25	1.00	Passed
Pair 3 [23]	5.43	5.28	0.15	8.31	Passed
Pair 4 [24]	5.47	5.26	0.21	8.43	Passed



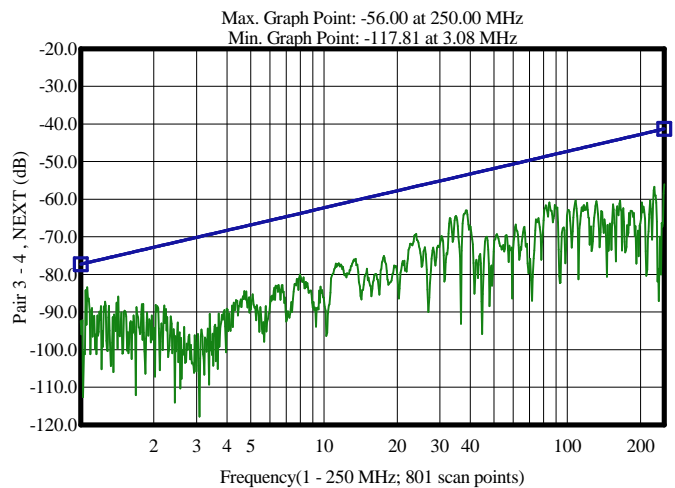
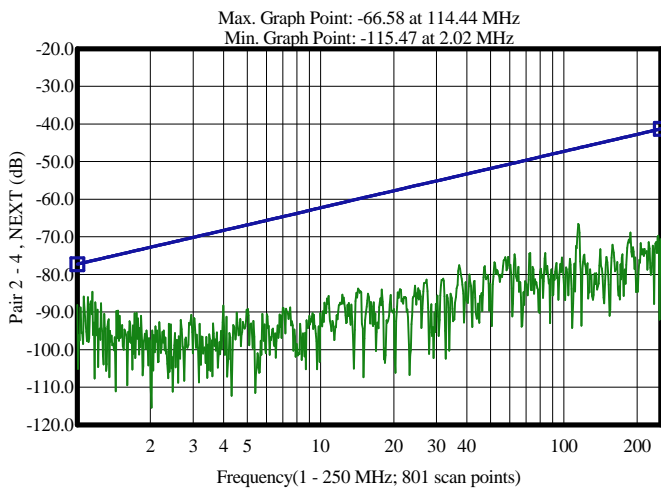
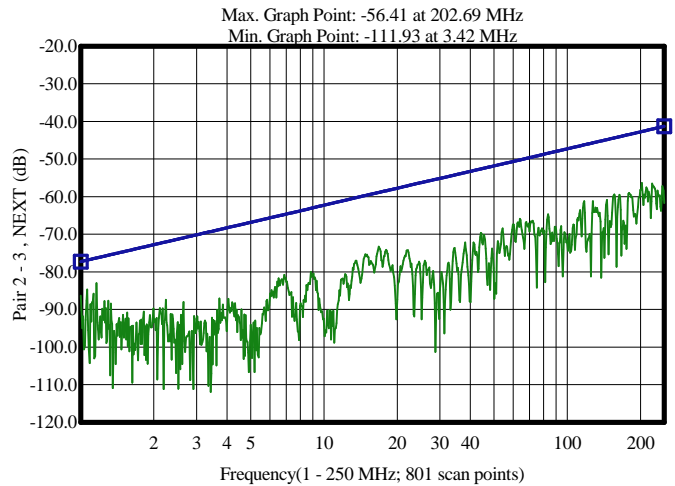
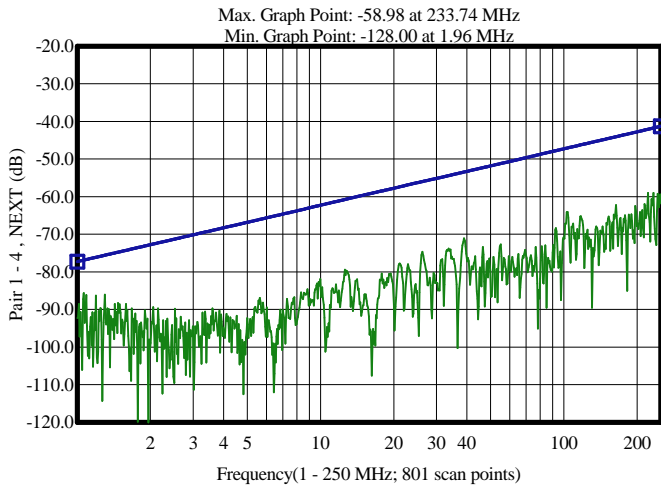
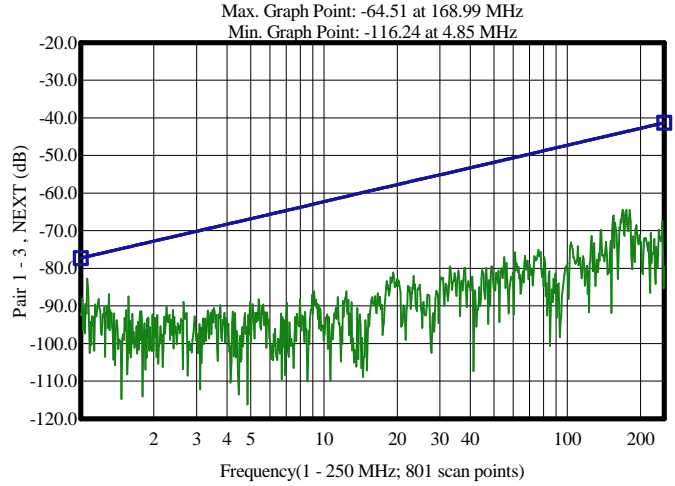
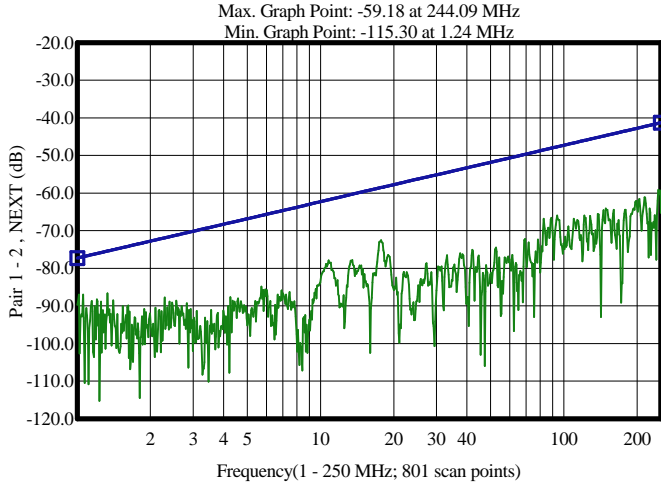
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Summary and Graphic: Near End Crosstalk Loss (NEXT)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 - 2	77.20	87.06	9.86	1.02	Passed
Pair 1 - 3	76.89	82.78	5.89	1.06	Passed
Pair 1 - 4	76.89	85.69	8.80	1.06	Passed
Pair 2 - 3	76.32	82.99	6.67	1.16	Passed
Pair 2 - 4	76.37	84.68	8.31	1.15	Passed
Pair 3 - 4	76.89	83.42	6.53	1.06	Passed



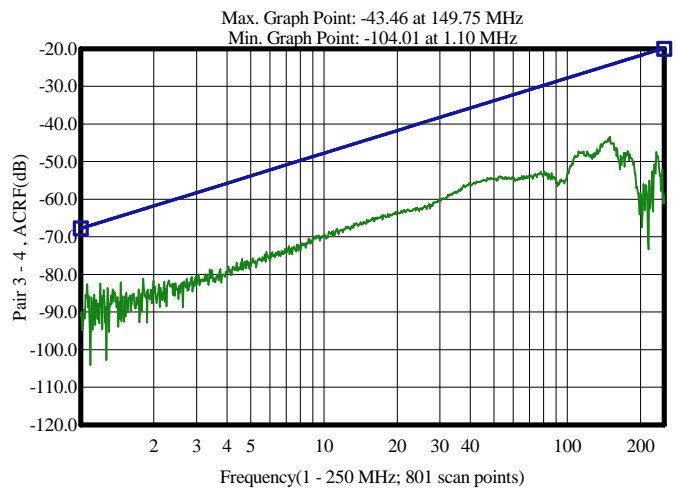
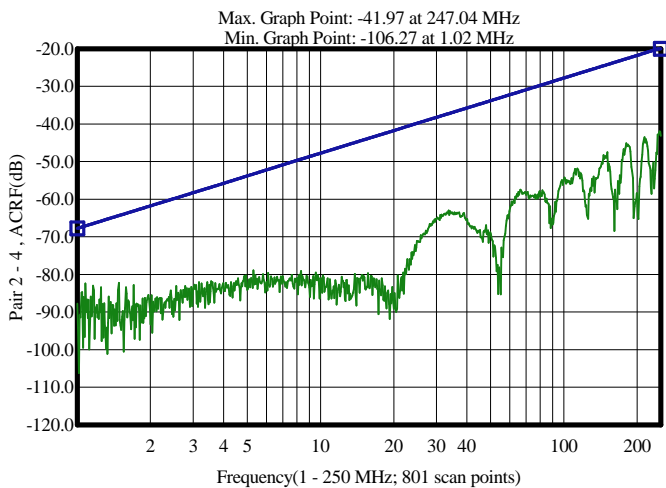
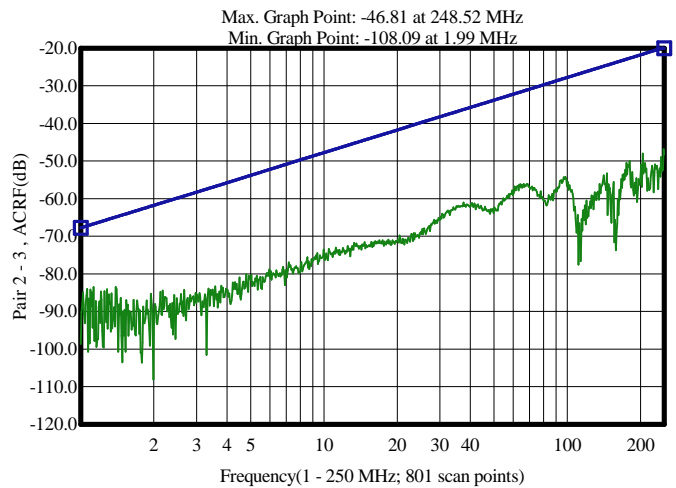
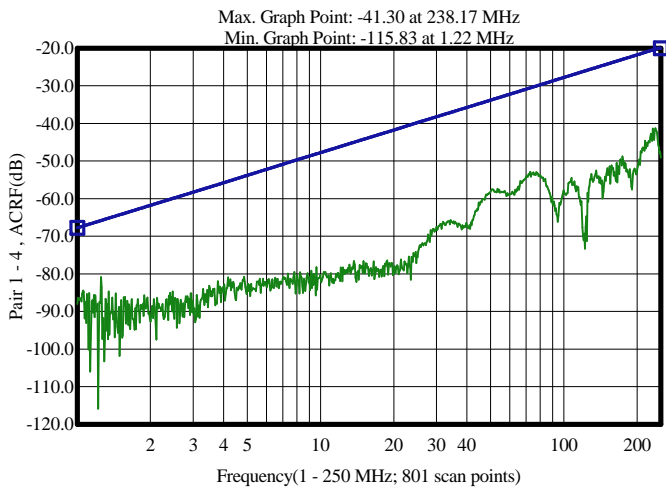
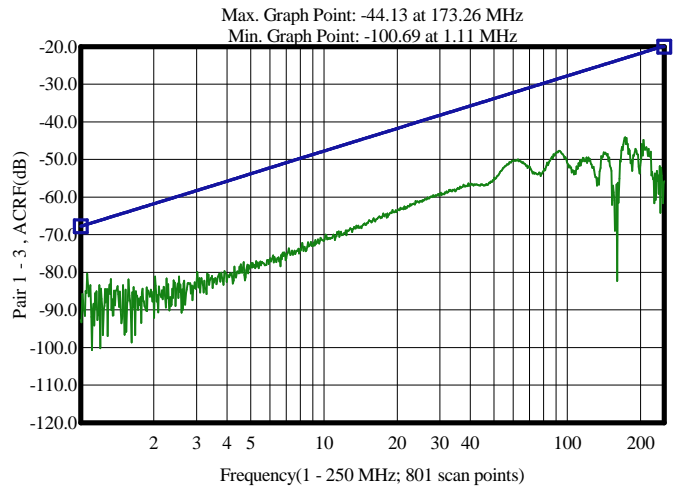
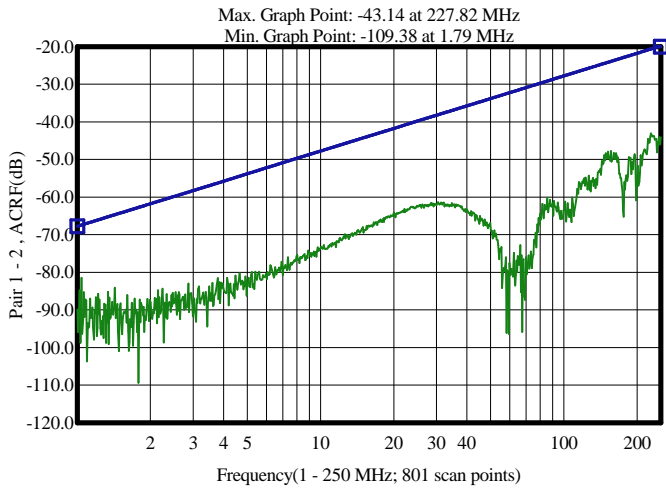
N/A = Not Applicable.
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Summary and Graphic: ACR to FEXT Ratio (ACRF)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 - 2	67.46	81.51	14.05	1.04	Passed
Pair 1 - 3	67.25	80.36	13.11	1.06	Passed
Pair 1 - 4	65.86	80.89	15.03	1.25	Passed
Pair 2 - 3	67.25	84.05	16.80	1.06	Passed
Pair 2 - 4	67.12	82.40	15.28	1.08	Passed
Pair 3 - 4	67.25	82.68	15.43	1.06	Passed



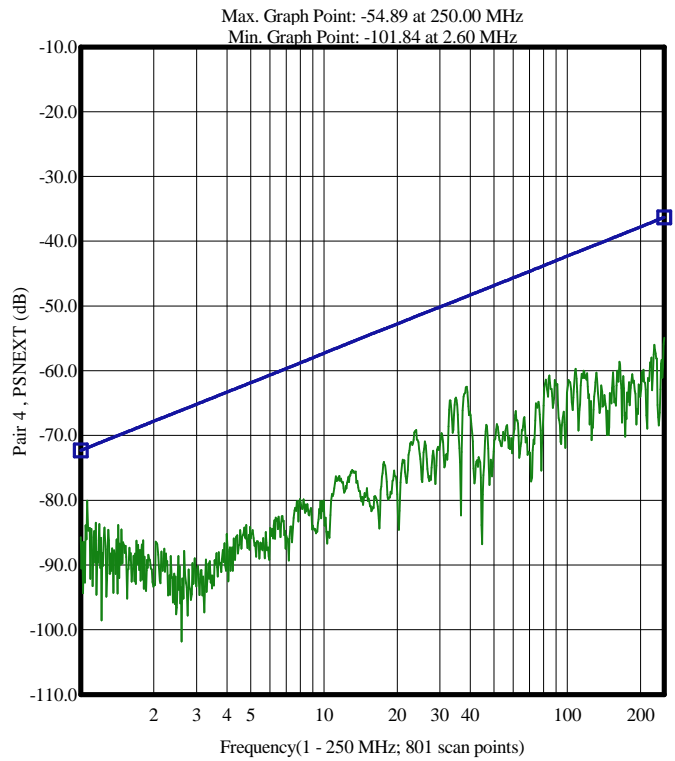
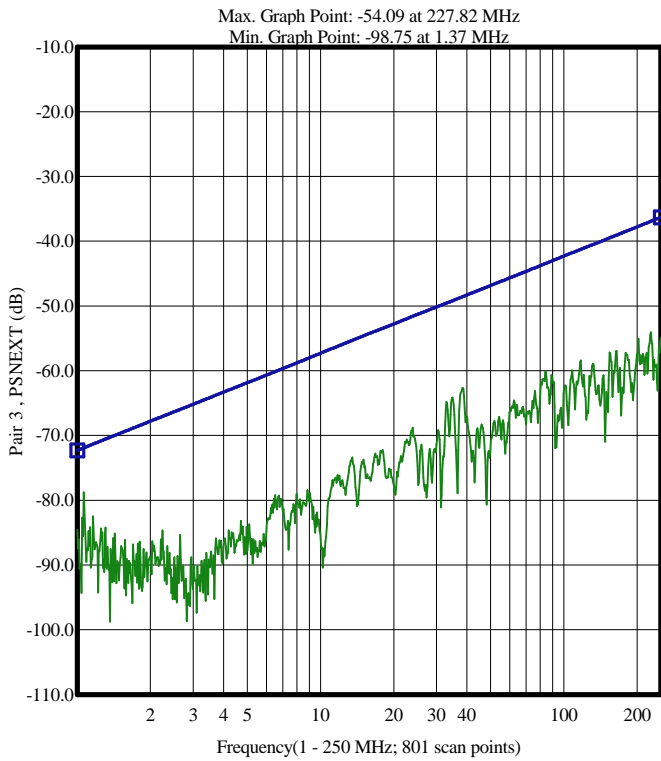
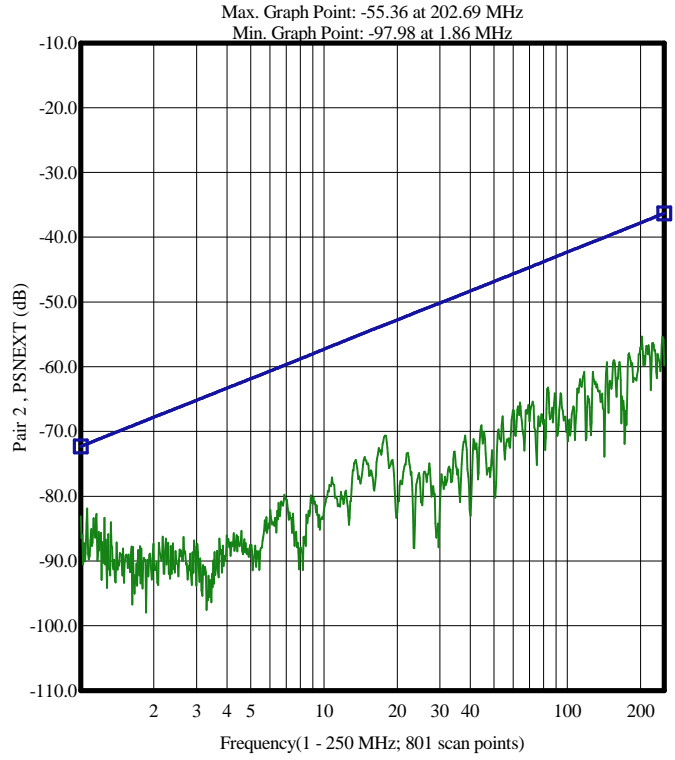
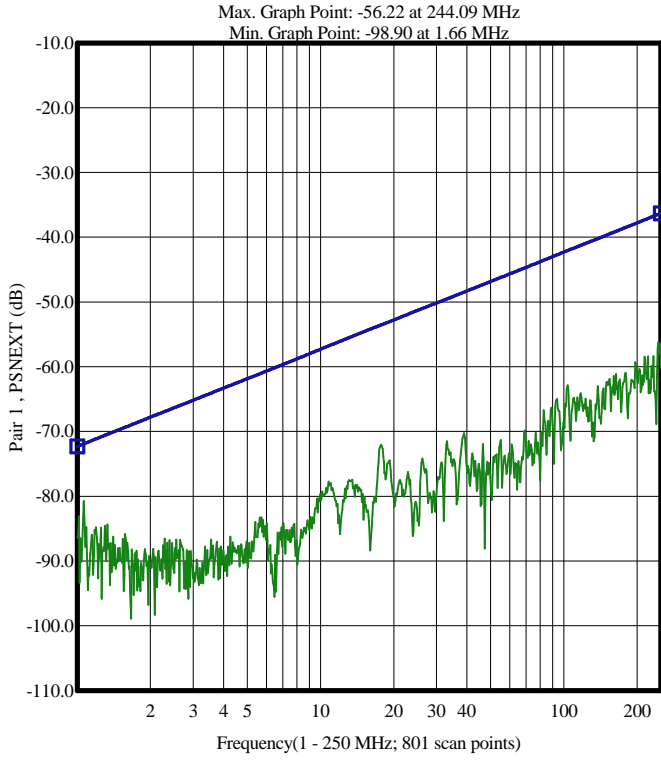
N/A = Not Applicable.
--- = Disable/Bypassed Pair.

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xxx = No entry.

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Summary and Graphic: Power Sum NEXT(PSNEXT)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 [21]	71.89	80.74	8.85	1.06	Passed
Pair 2 [22]	71.89	81.92	10.03	1.06	Passed
Pair 3 [23]	71.89	78.79	6.90	1.06	Passed
Pair 4 [24]	71.89	80.08	8.19	1.06	Passed



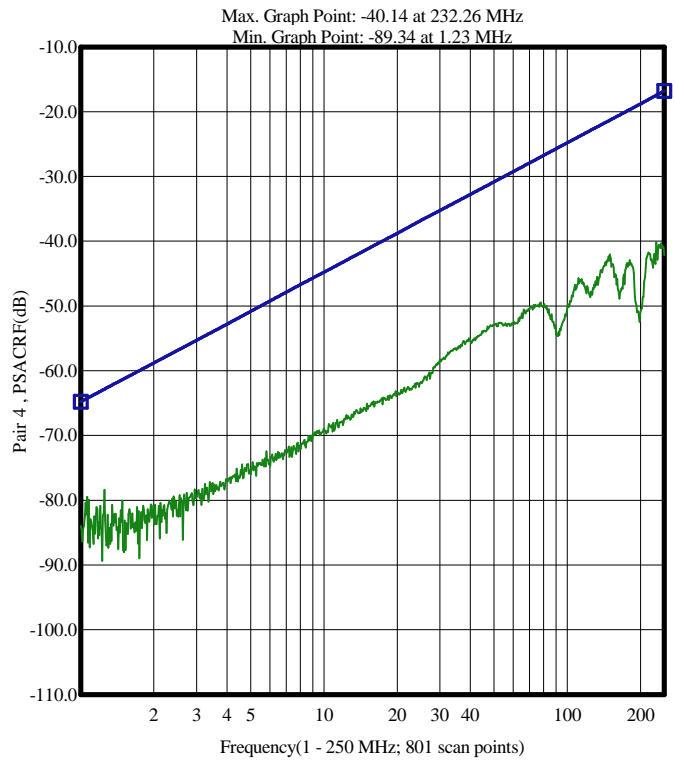
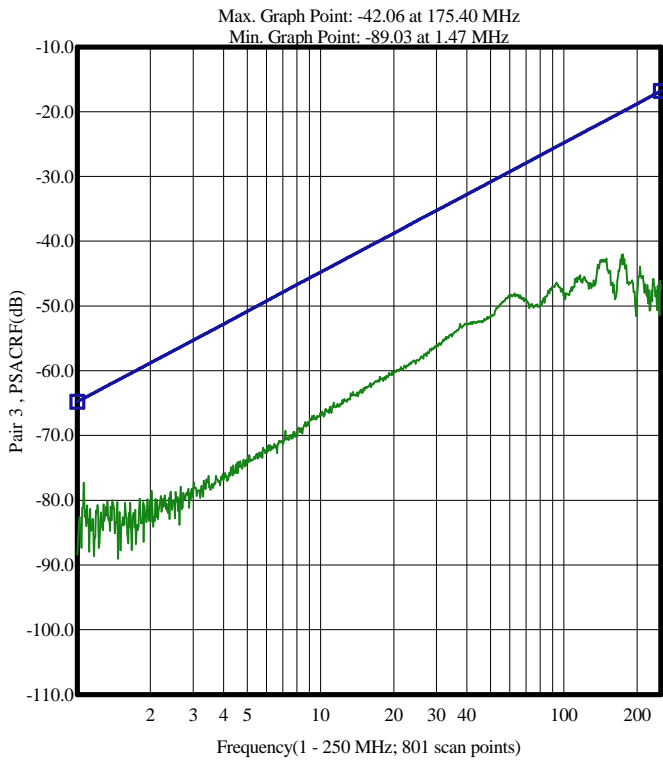
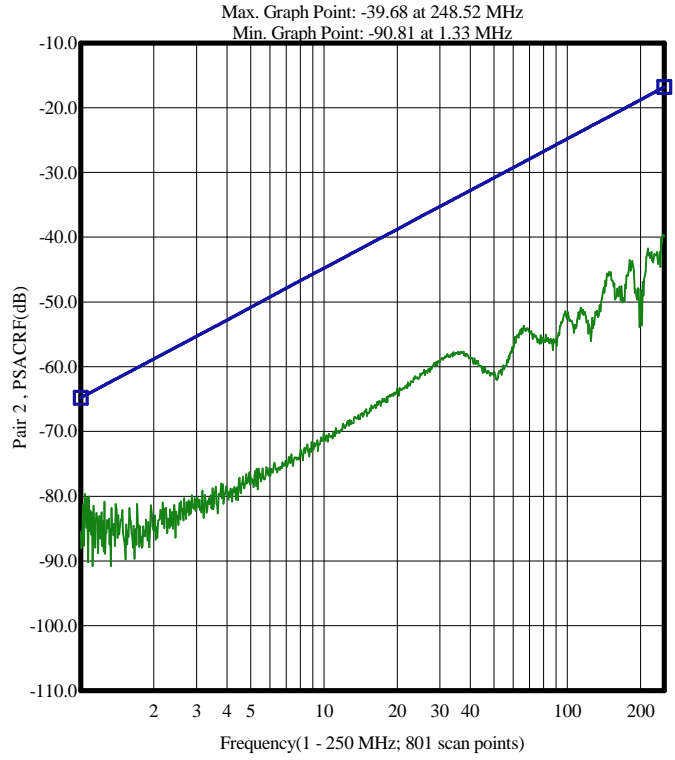
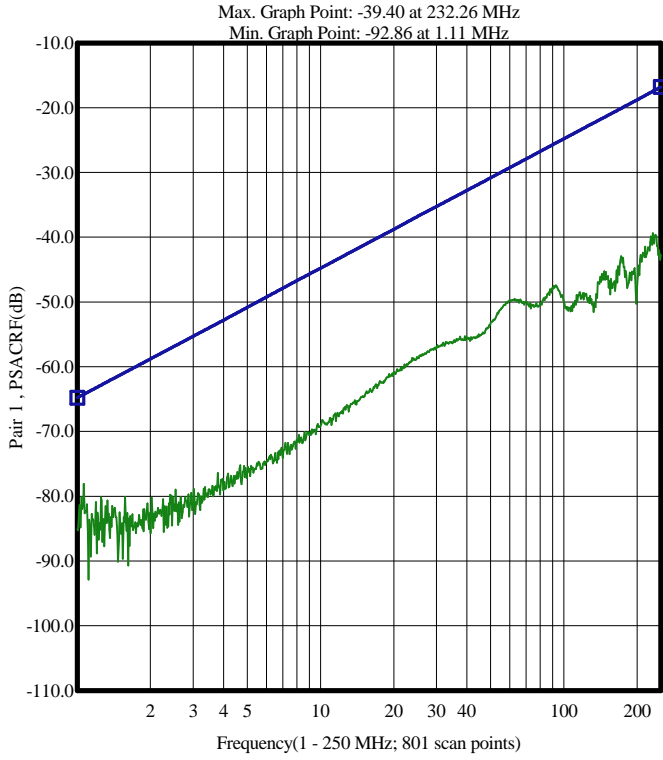
N/A = Not Applicable.
-- = Disable/Bypassed Pair.

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*** = Measured value is invalid.

Summary and Graphic: Power Sum ACRF (PSACRF)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 [21]	64.25	78.11	13.86	1.06	Passed
Pair 2 [22]	64.46	79.66	15.20	1.04	Passed
Pair 3 [23]	64.25	77.32	13.07	1.06	Passed
Pair 4 [24]	64.25	79.50	15.25	1.06	Passed



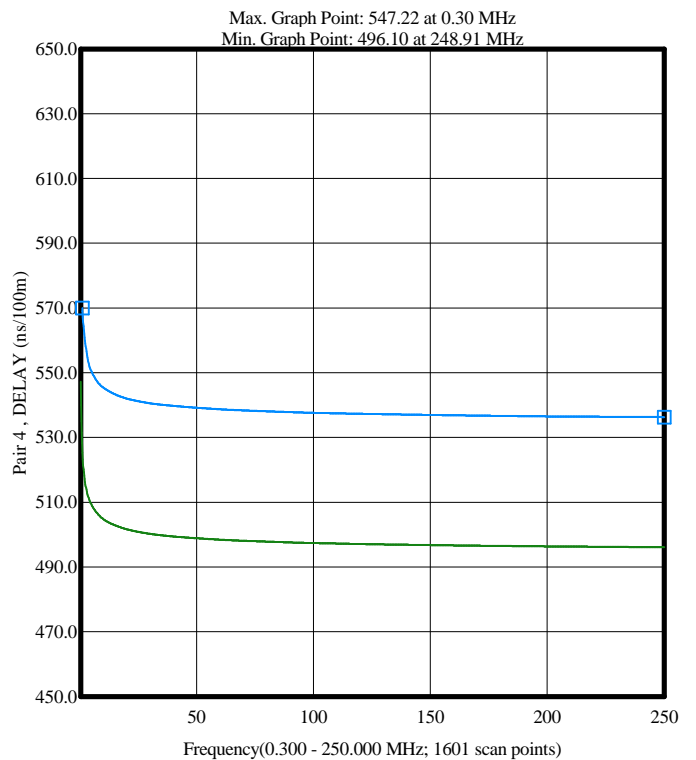
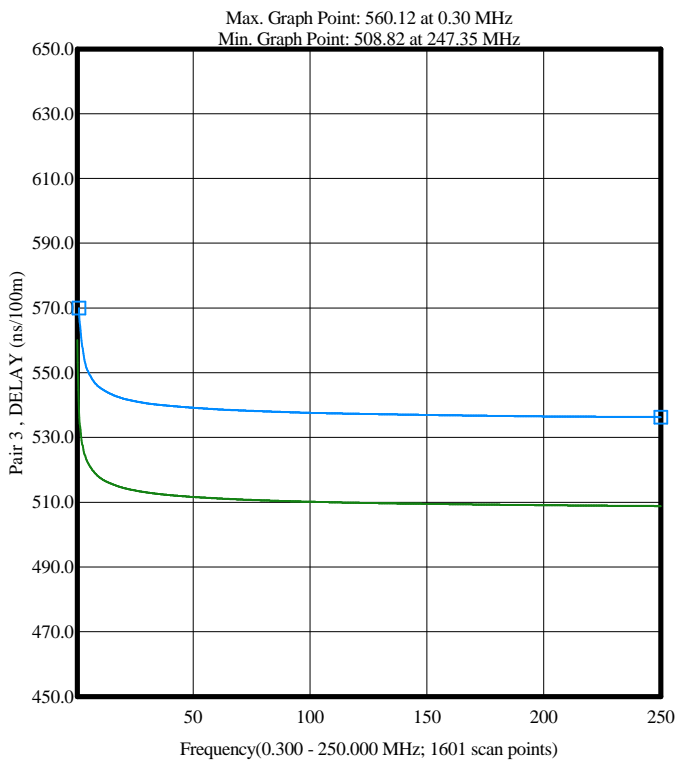
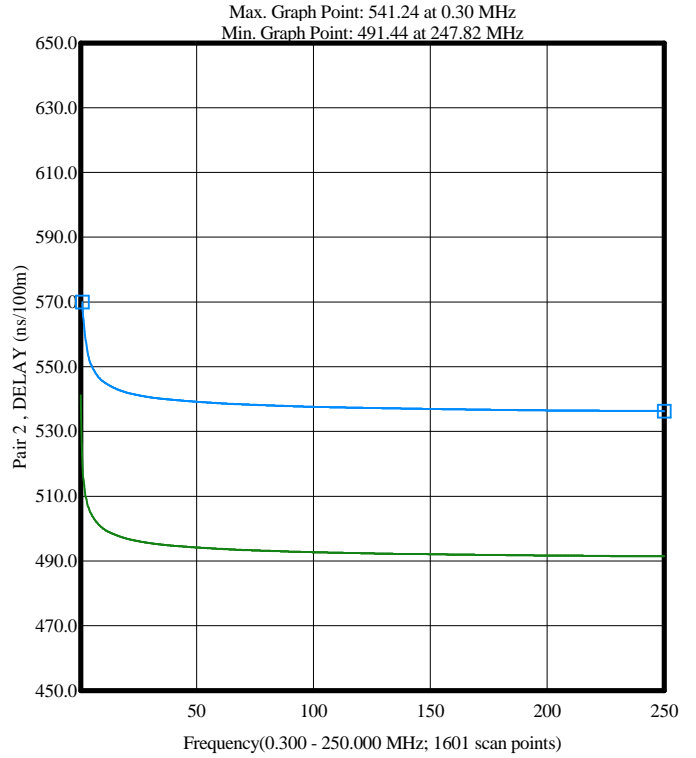
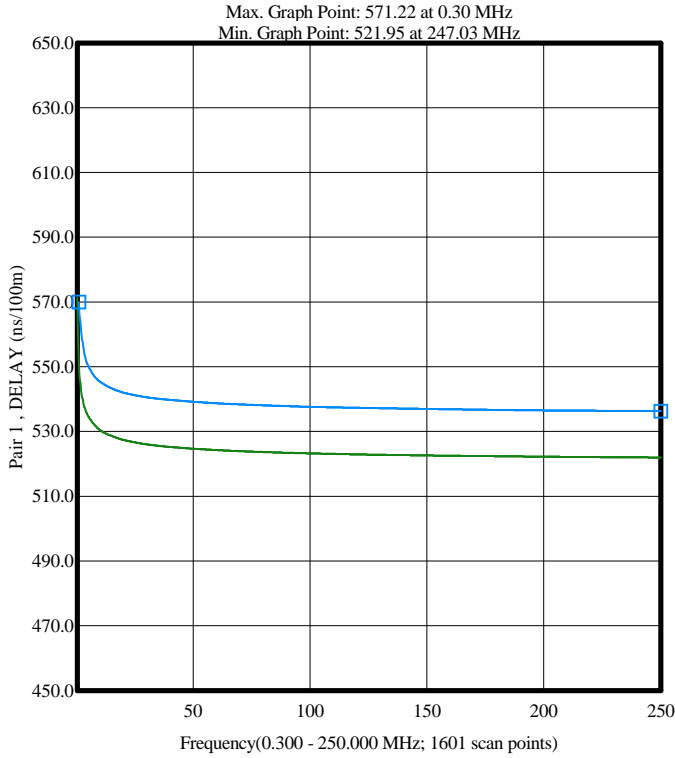
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Summary and Graphic: Propagation Delay (DELAY)

Pair	Spec (Max)(ns/100m)	Measured(ns/100m)	Margin (ns/100m)	@ Frequency (MHz)	Test Result
Pair 1 [21]	536.54	522.26	14.28	194.44	Passed
Pair 2 [22]	536.47	491.67	44.80	205.68	Passed
Pair 3 [23]	536.53	509.13	27.40	195.69	Passed
Pair 4 [24]	536.48	496.35	40.13	203.49	Passed



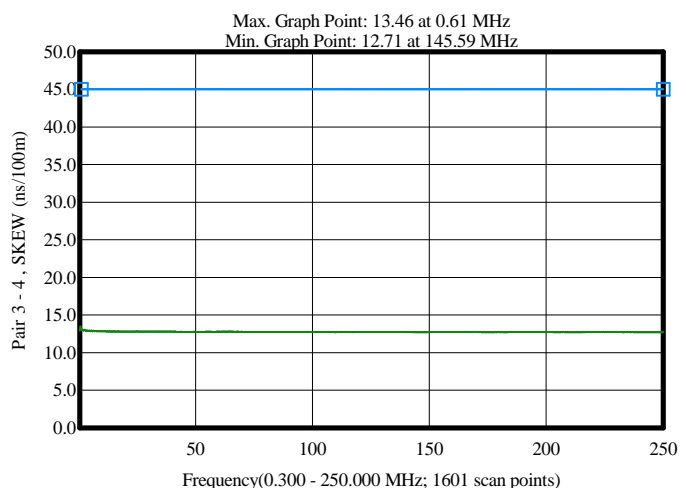
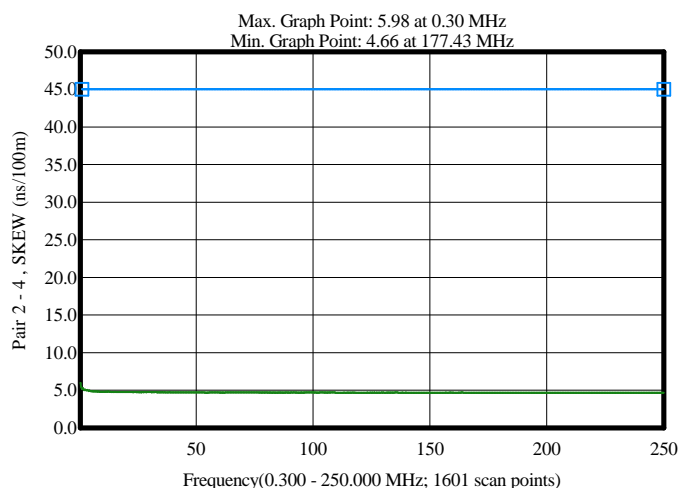
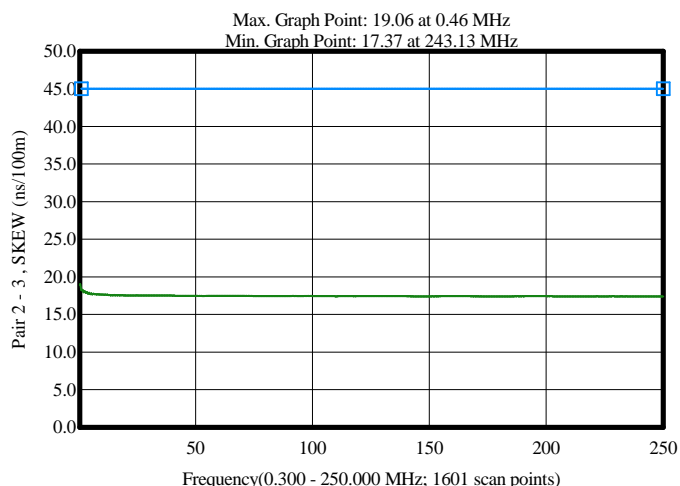
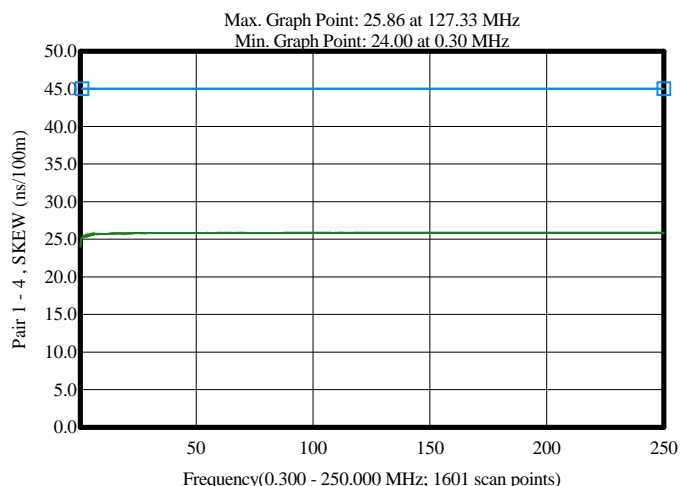
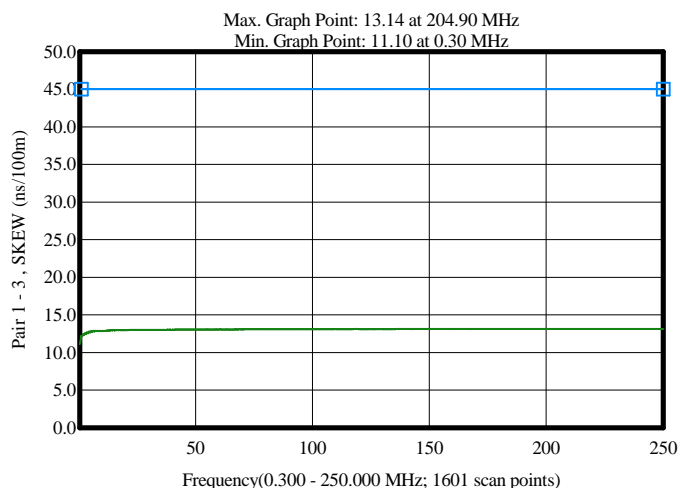
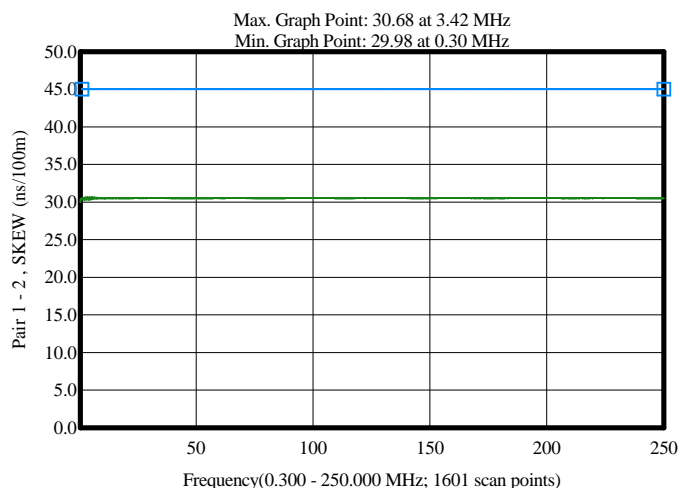
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Summary and Graphic: Propagation Delay Skew (SKEW)

Pair	Spec (Max)(ns/100m)	Measured(ns/100m)	Margin (ns/100m)	@ Frequency (MHz)	Test Result
Pair 1 - 2	45.00	30.68	14.32	3.42	Passed
Pair 1 - 3	45.00	13.14	31.86	204.90	Passed
Pair 1 - 4	45.00	25.86	19.14	127.33	Passed
Pair 2 - 3	45.00	18.29	26.71	1.55	Passed
Pair 2 - 4	45.00	5.28	39.72	1.24	Passed
Pair 3 - 4	45.00	13.06	31.94	1.39	Passed



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