

DCM Test Report

Cable Type : 4x2x24 x ALL	Factory Number : 2021041407	Data File Name : DA119874.D3S
Cable I.D. : CAT5E LAN CABLE	Order Number : RC10420B01424-100M	Specification File : SK-4HCT5-455(B).S3S
Temperature : 24.00 癈	Relative Humidity : 50 %	Test Date/Time : 05/07/2021 11:07:25 AM
Length : 100.00 m	Number of Pairs to Test : 4	Operator : HBB
Starting Position : 1		Analyzer Type : ENA

Pass - Fail Test Certificate - 4 Pairs

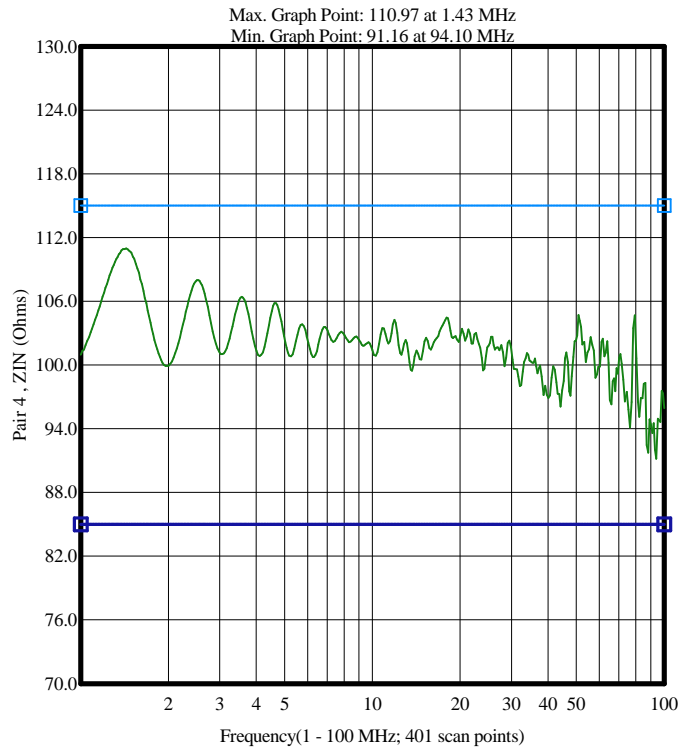
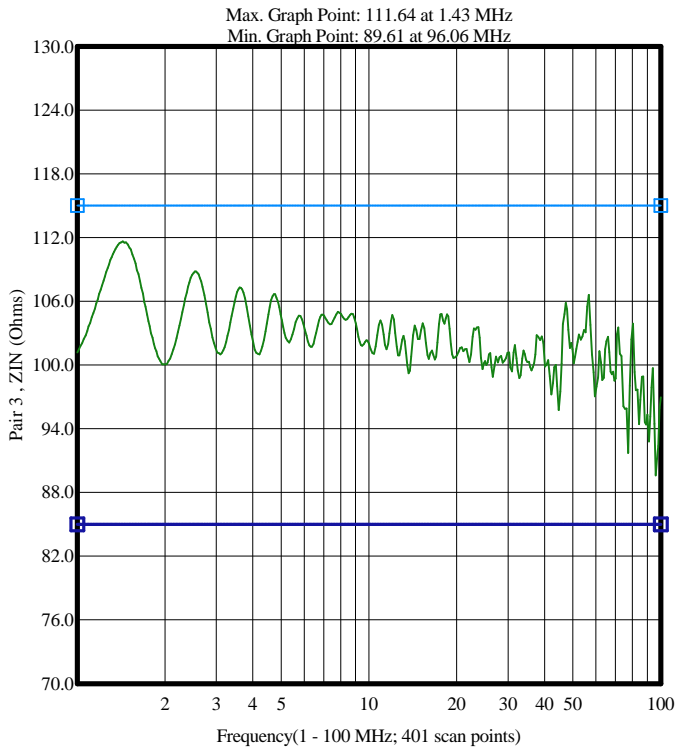
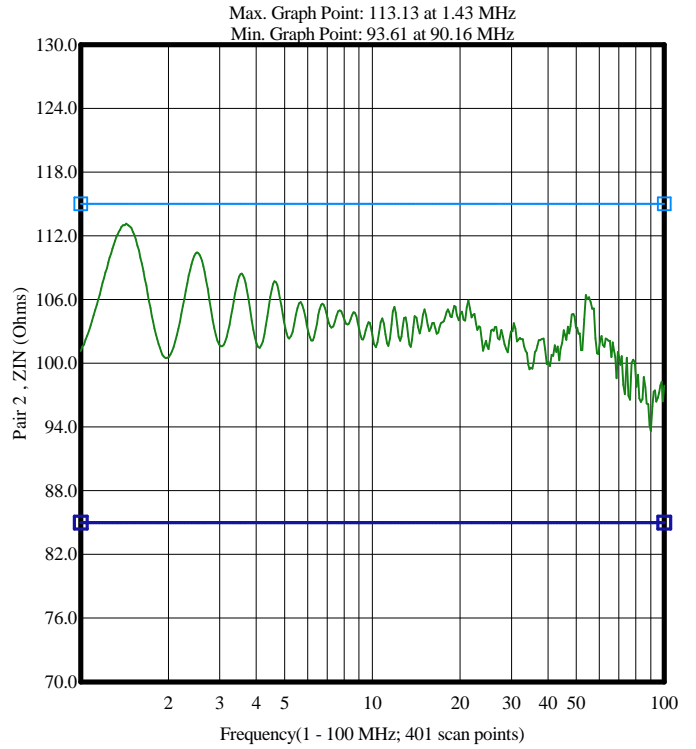
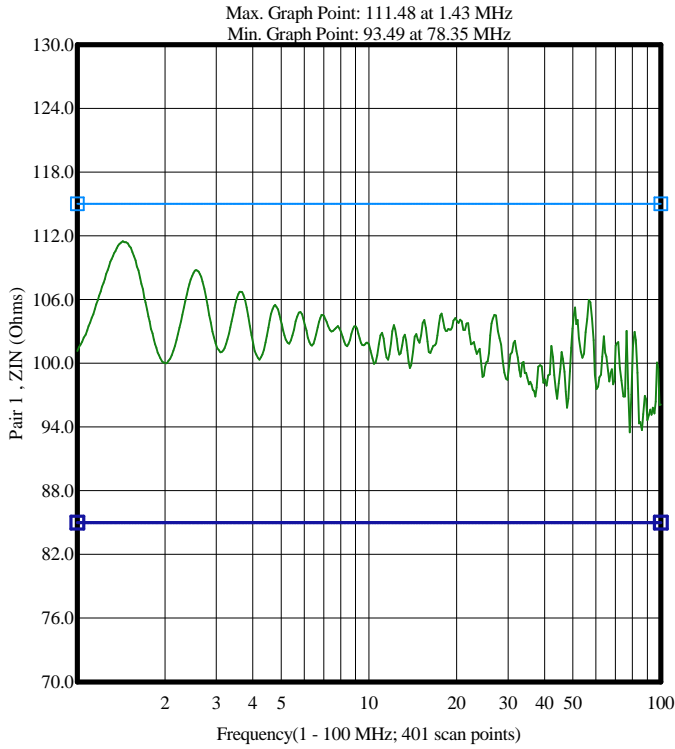
High Frequency

Test Type	Test Result
Input Impedance (Zin)(Ohms)(Terminated)	OK
Return Loss (RL)(dB)	OK
Insertion Loss (IL)(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 [1]	85.00	115.00	93.49	111.48	8.49	3.52	78.35	1.43	Passed
Pair 2 [2]	85.00	115.00	93.61	113.13	8.61	1.87	90.16	1.43	Passed
Pair 3 [3]	85.00	115.00	89.61	111.64	4.61	3.36	96.06	1.43	Passed
Pair 4 [4]	85.00	115.00	91.16	110.97	6.16	4.03	94.10	1.43	Passed



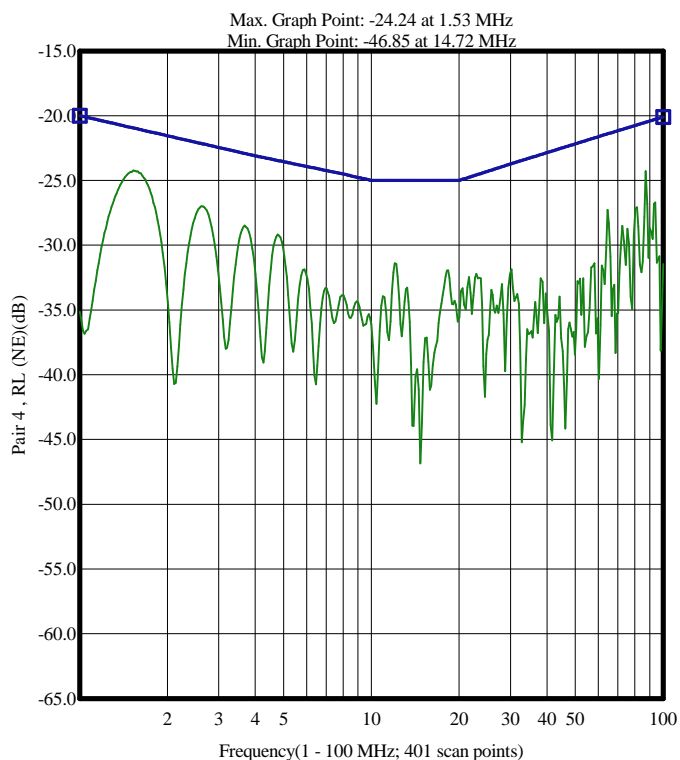
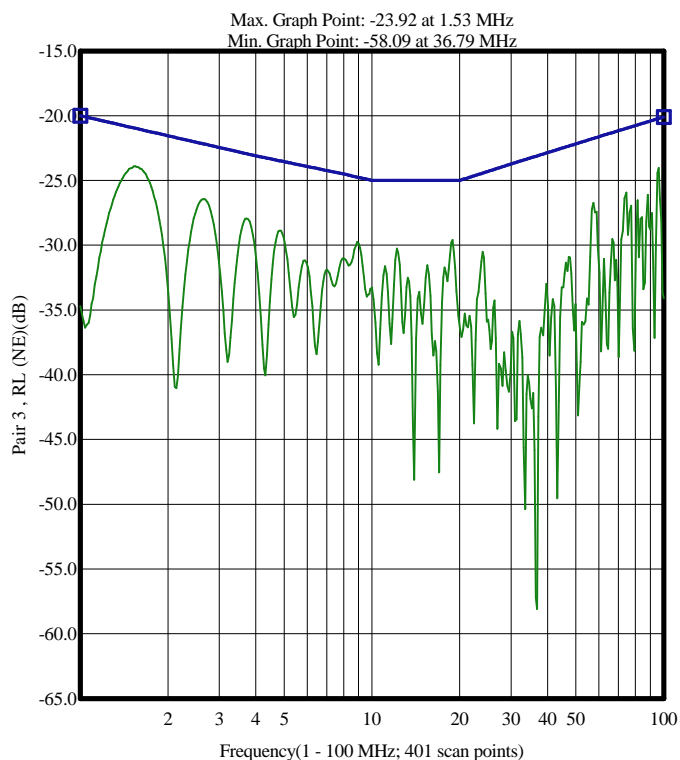
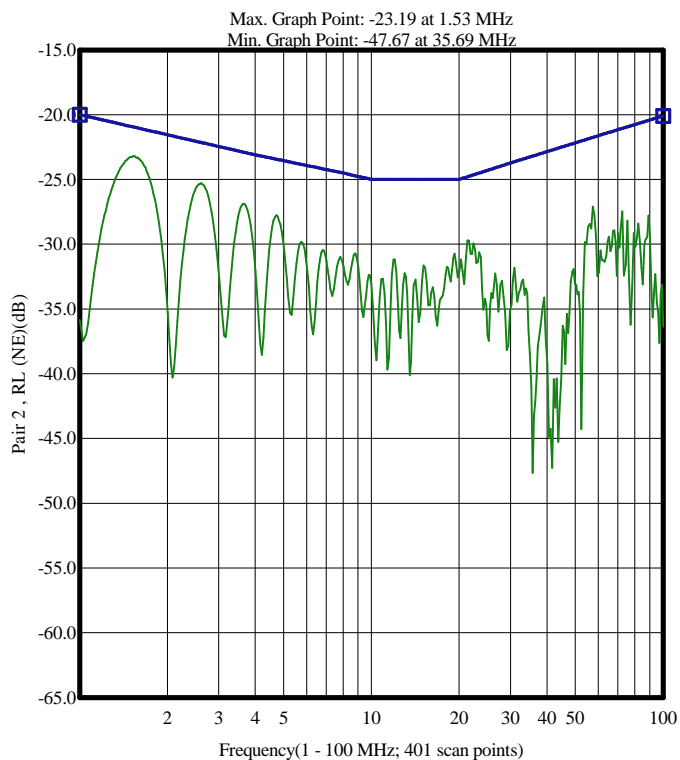
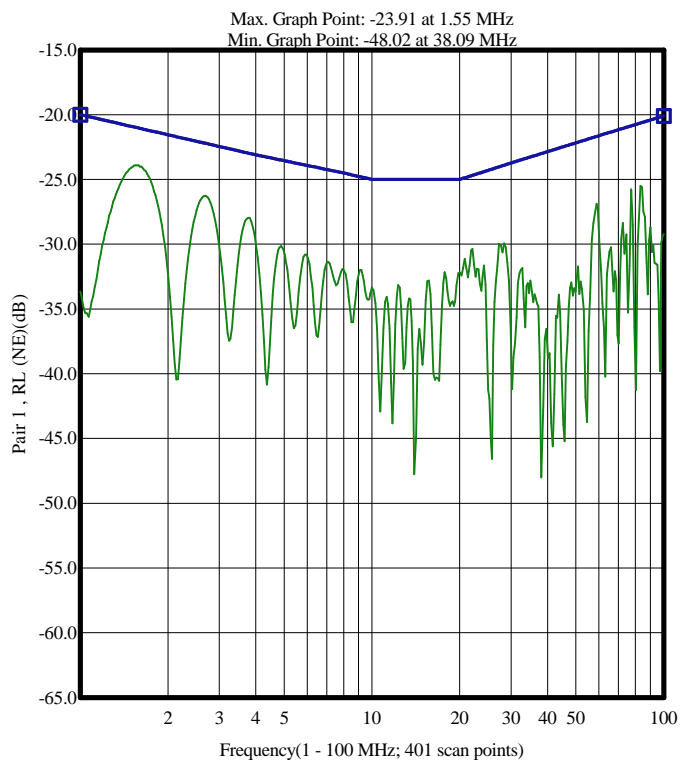
N/A = Not Applicable.
--- = Disable/Bypassed Pair.

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Summary and Graphic: Return Loss (RL)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 [1]	21.03	23.92	2.89	1.58	Passed
Pair 2 [2]	20.98	23.21	2.23	1.55	Passed
Pair 3 [3]	20.98	23.92	2.94	1.55	Passed
Pair 4 [4]	21.03	24.30	3.27	1.58	Passed



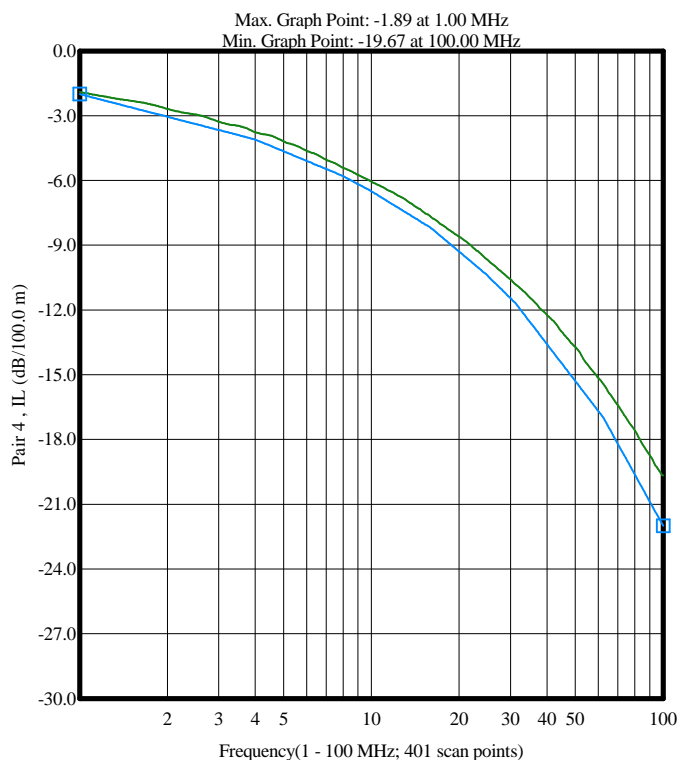
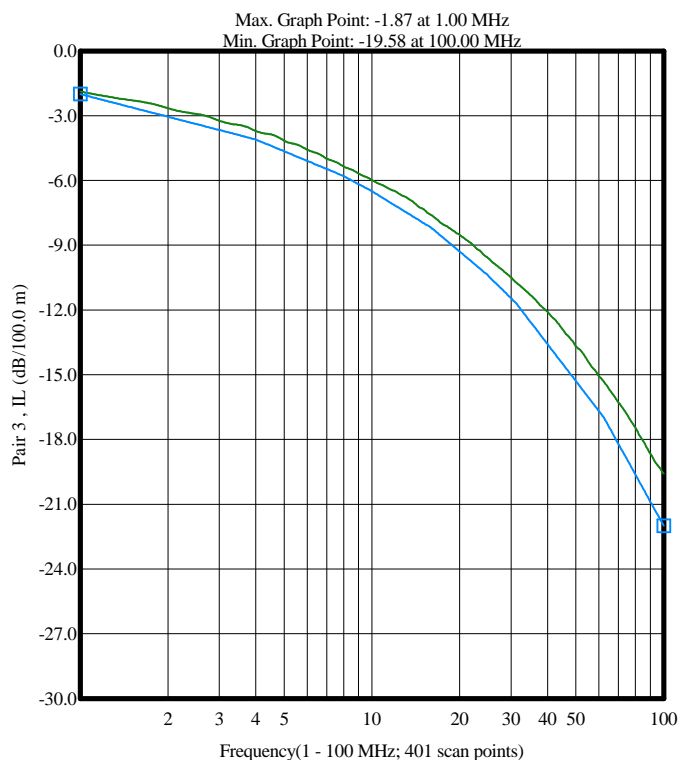
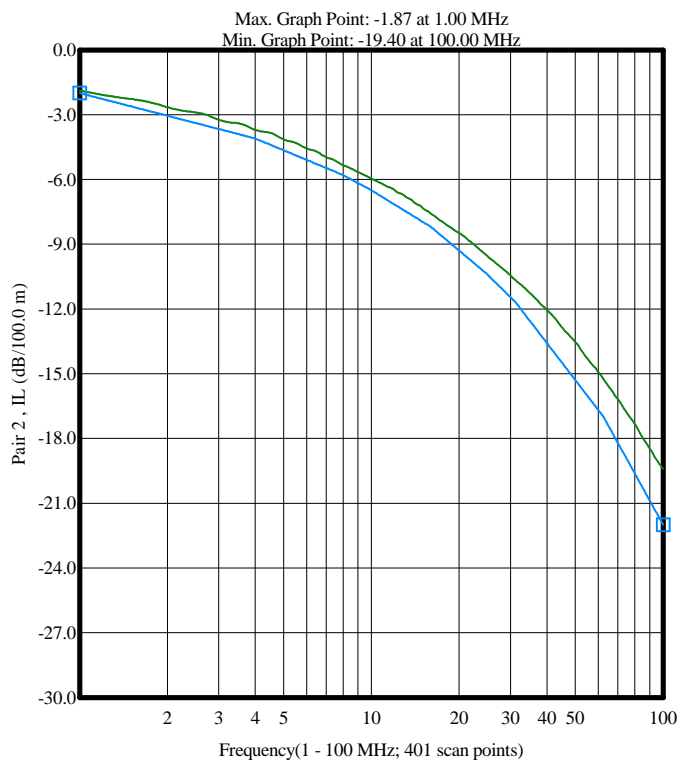
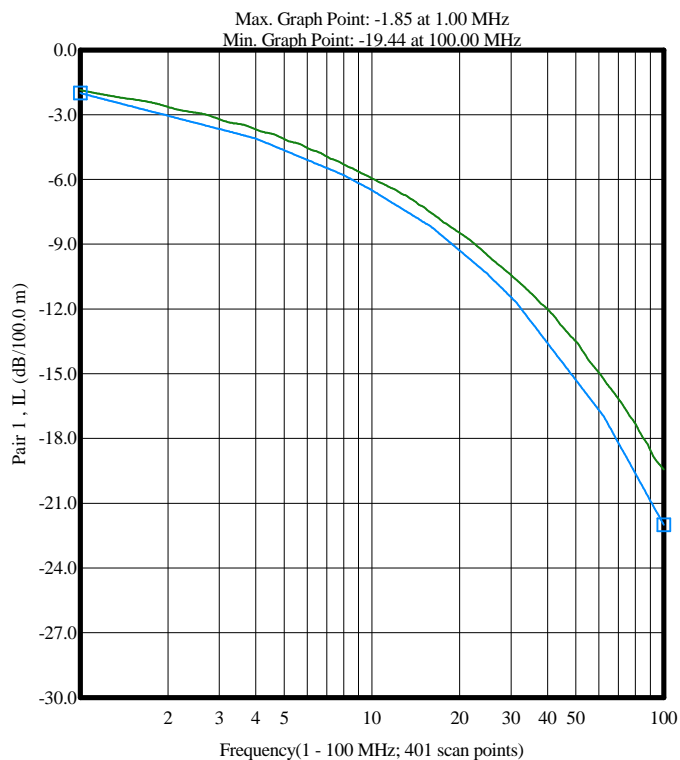
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Summary and Graphic: Insertion Loss (IL)@20C

Pair	Spec (Max)(dB/100.0 m)	Measured(dB/100.0 m)	Margin (dB/100.0 m)	@ Frequency (MHz)	Test Result
Pair 1 [1]	2.02	1.88	0.14	1.01	Passed
Pair 2 [2]	2.02	1.90	0.12	1.01	Passed
Pair 3 [3]	2.00	1.87	0.13	1.00	Passed
Pair 4 [4]	2.02	1.92	0.10	1.01	Passed



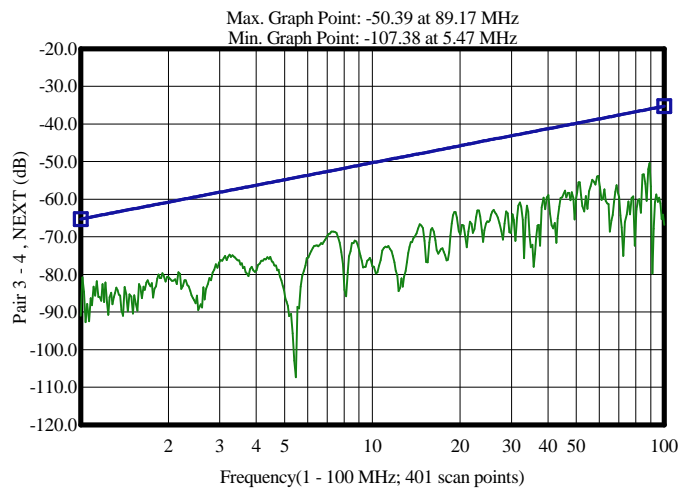
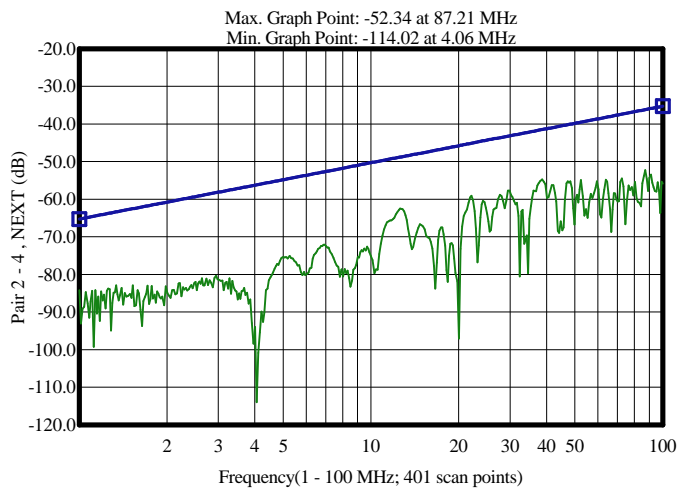
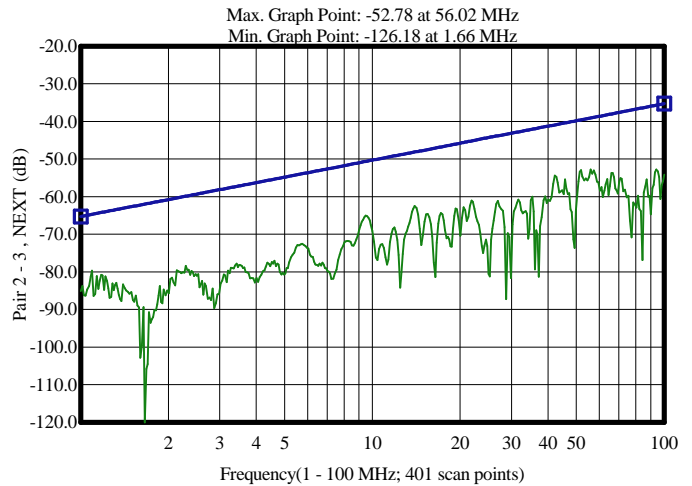
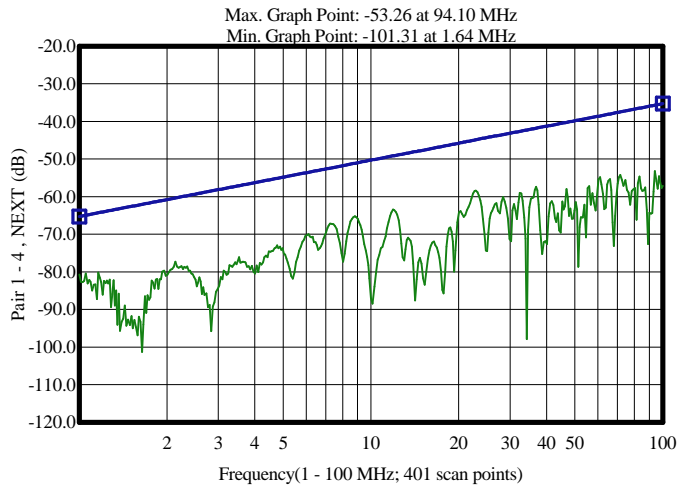
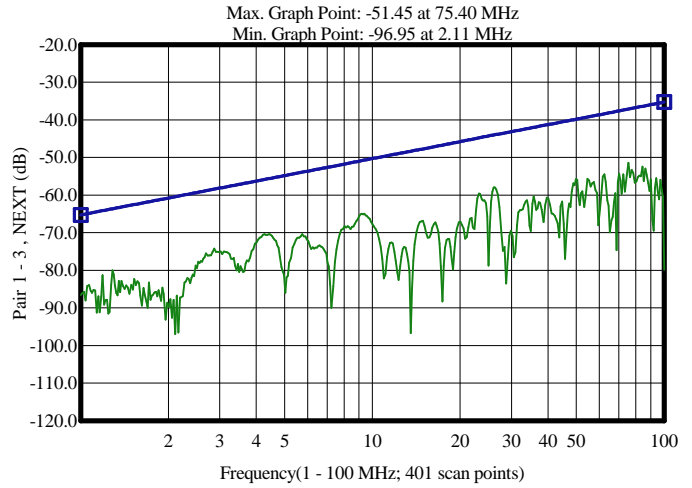
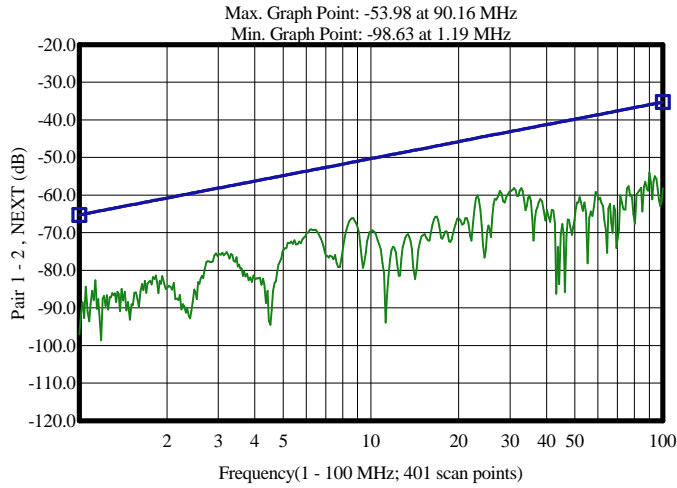
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Summary and Graphic: Near End Crosstalk Loss (NEXT)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 - 2	51.30	66.16	14.86	8.61	Passed
Pair 1 - 3	44.03	58.00	13.97	26.08	Passed
Pair 1 - 4	44.88	58.45	13.57	22.92	Passed
Pair 2 - 3	39.61	52.98	13.37	51.88	Passed
Pair 2 - 4	41.53	54.80	13.27	38.60	Passed
Pair 3 - 4	36.06	50.39	14.33	89.17	Passed



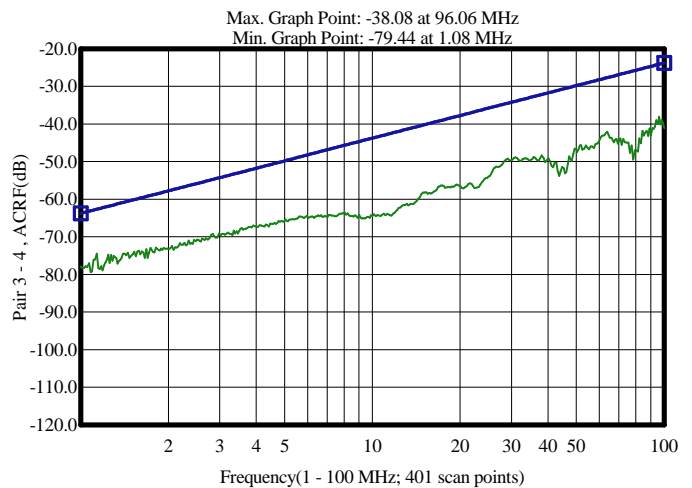
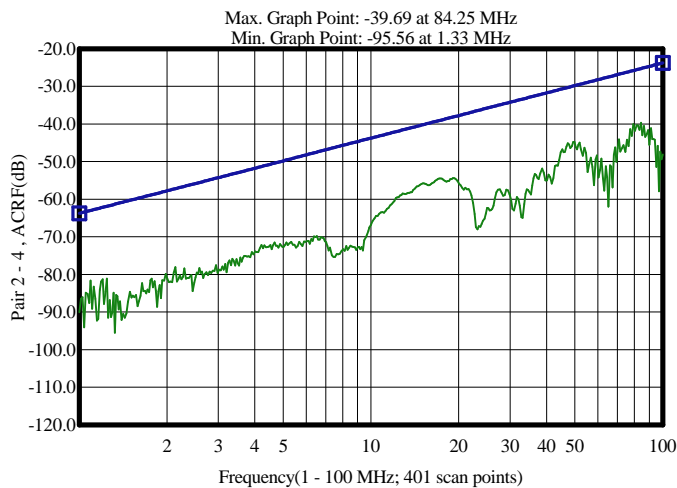
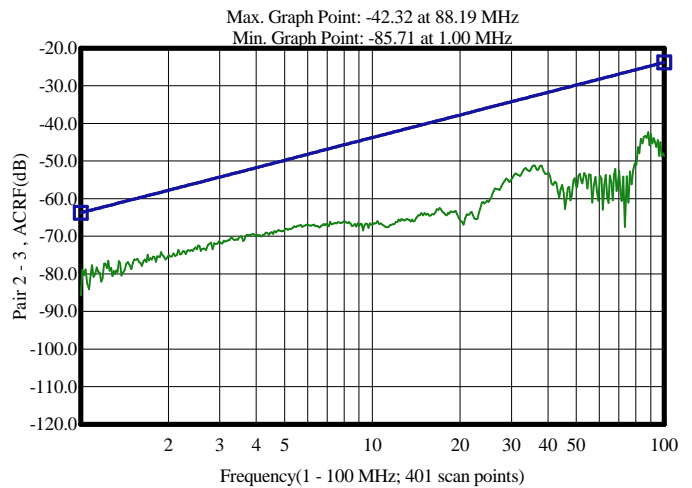
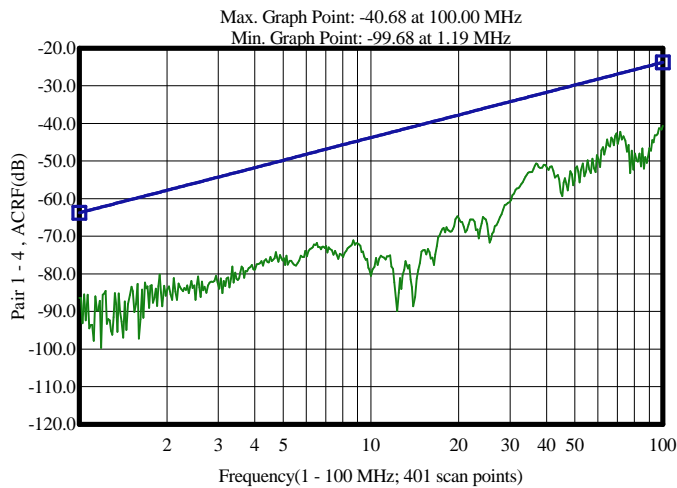
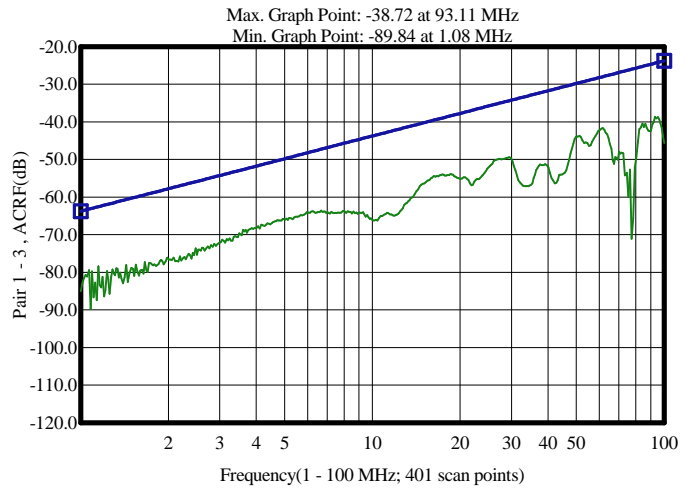
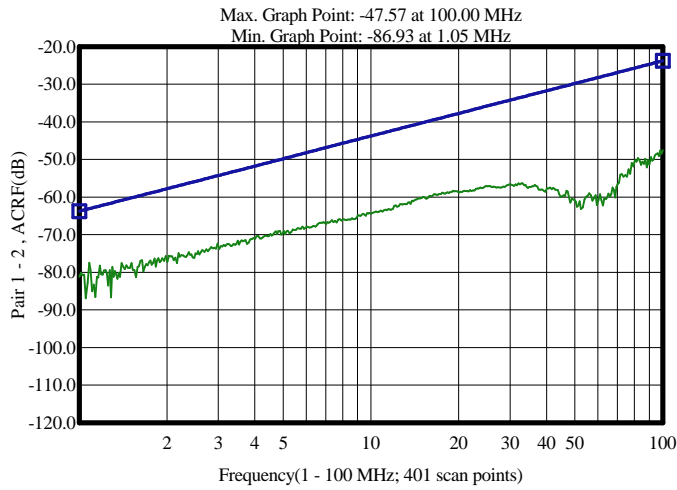
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Summary and Graphic: ACR to FEXT Ratio (ACRF)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 - 2	63.12	77.53	14.41	1.08	Passed
Pair 1 - 3	28.01	41.68	13.67	61.69	Passed
Pair 1 - 4	26.71	42.29	15.58	71.61	Passed
Pair 2 - 3	61.91	76.56	14.65	1.24	Passed
Pair 2 - 4	25.82	40.08	14.26	79.33	Passed
Pair 3 - 4	62.70	74.54	11.84	1.14	Passed



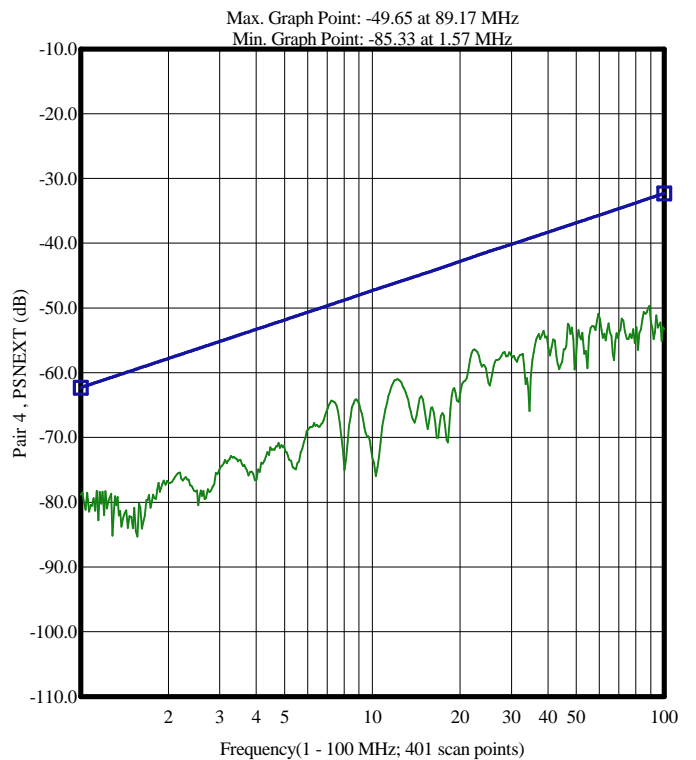
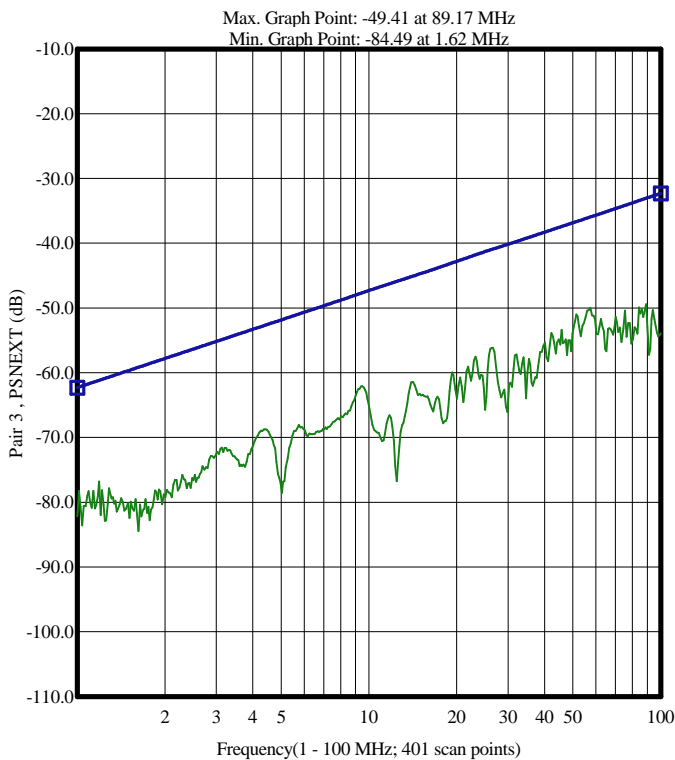
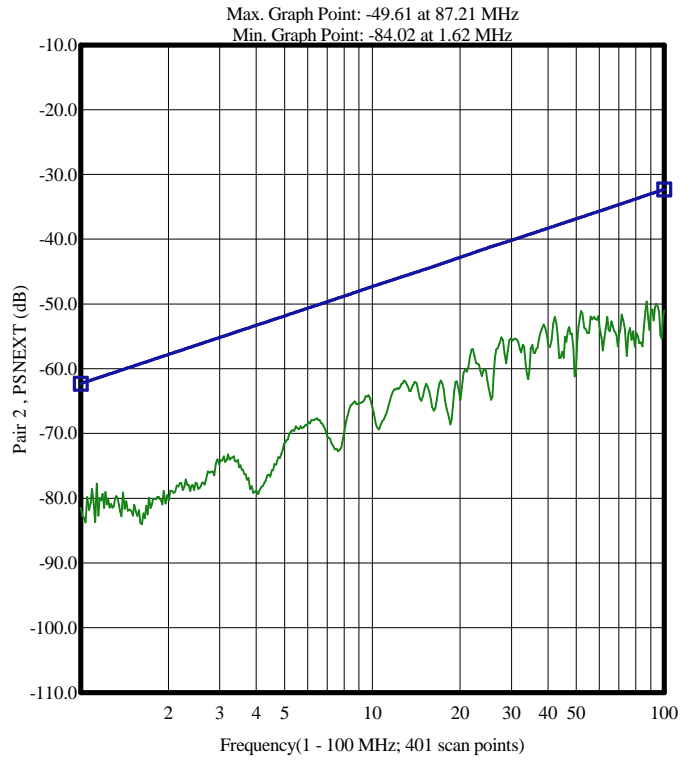
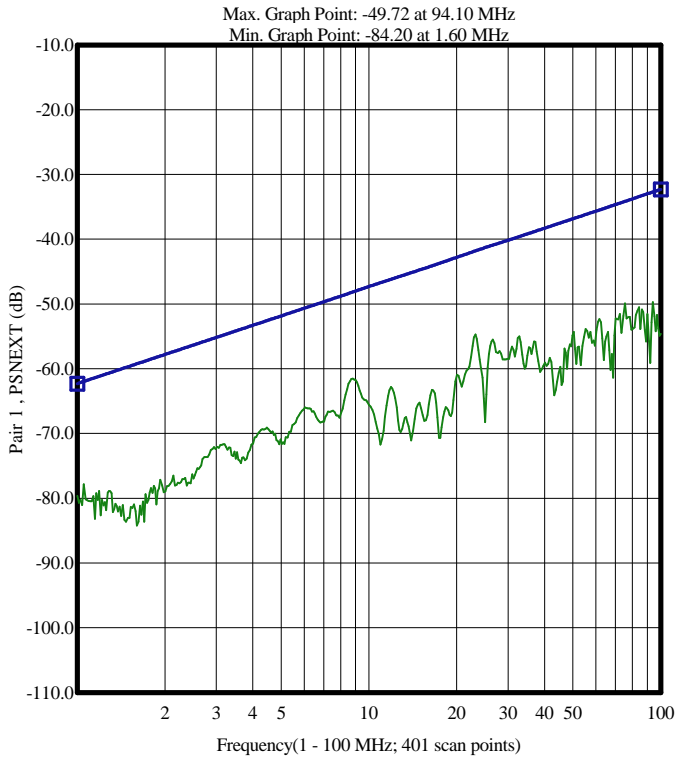
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Summary and Graphic: Power Sum NEXT(PSNEXT)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 [1]	41.81	54.73	12.92	23.18	Passed
Pair 2 [2]	37.95	52.01	14.06	42.18	Passed
Pair 3 [3]	35.95	49.95	14.00	57.44	Passed
Pair 4 [4]	42.04	56.40	14.36	22.39	Passed



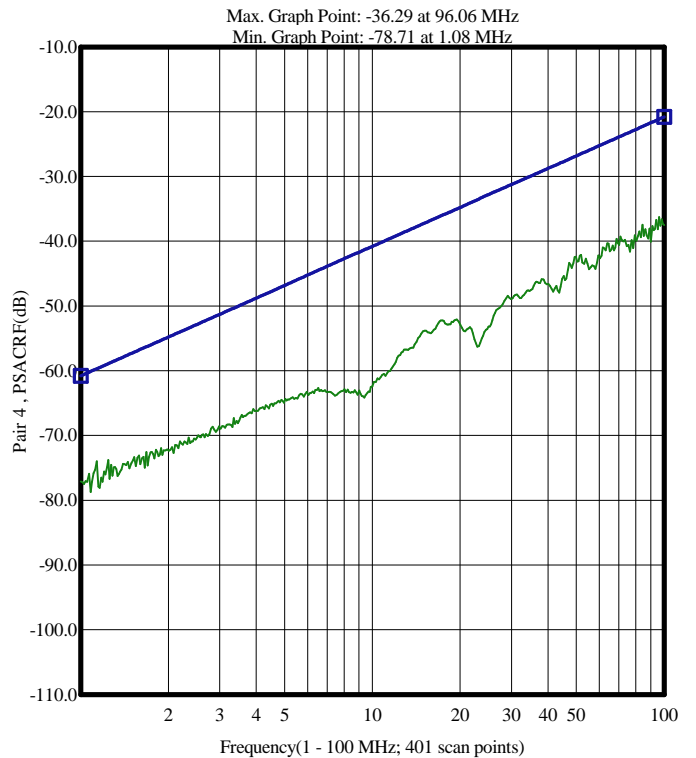
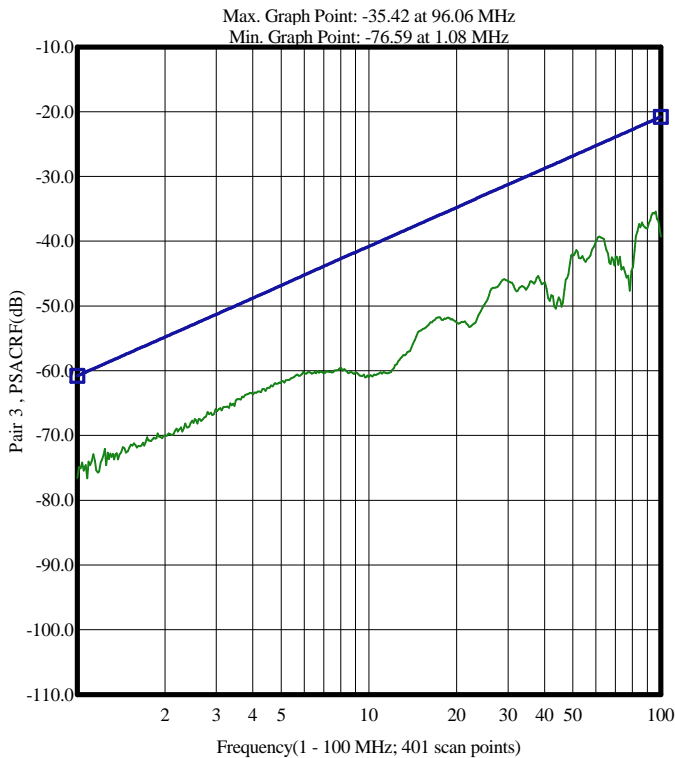
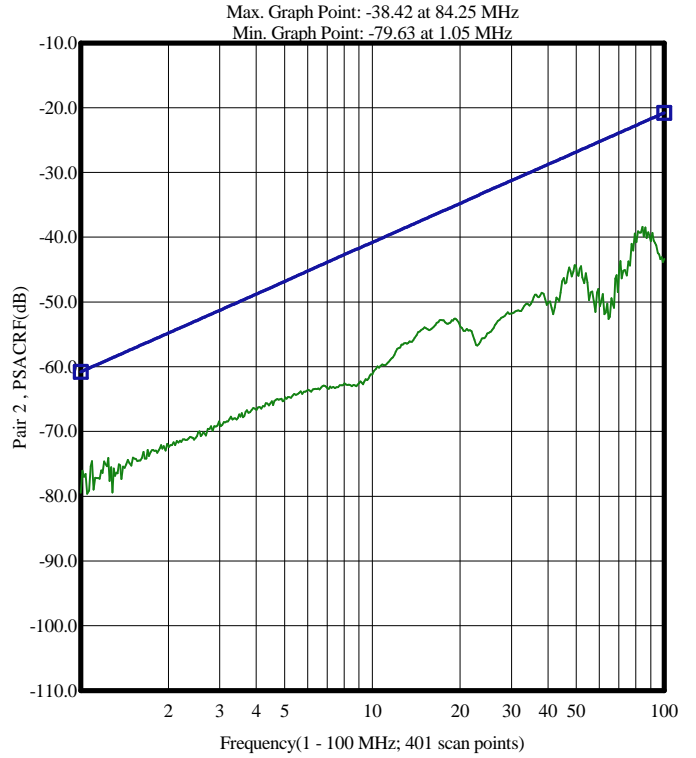
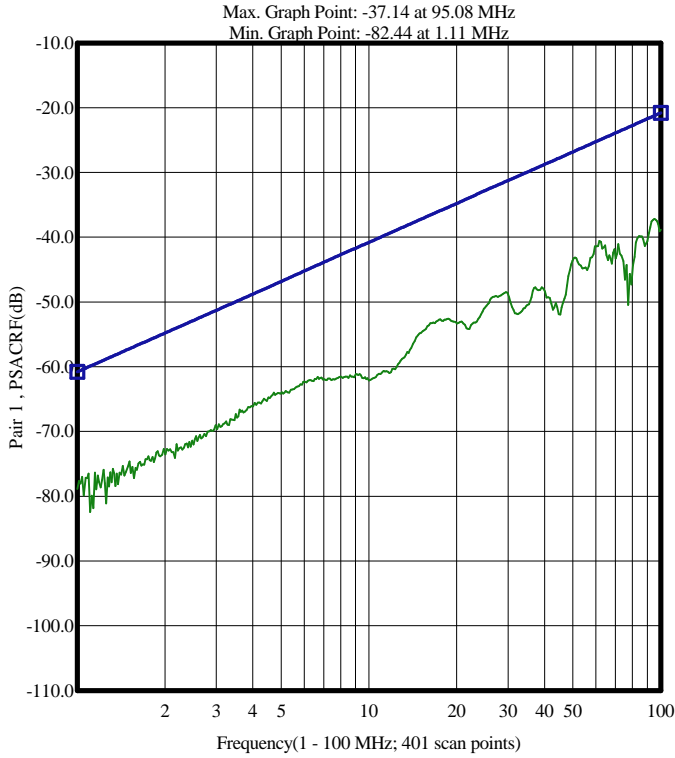
N/A = Not Applicable.
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Summary and Graphic: Power Sum ACRF (PSACRF)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 [1]	25.01	40.56	15.55	61.69	Passed
Pair 2 [2]	60.01	74.56	14.55	1.10	Passed
Pair 3 [3]	58.91	72.08	13.17	1.24	Passed
Pair 4 [4]	59.70	73.99	14.29	1.14	Passed



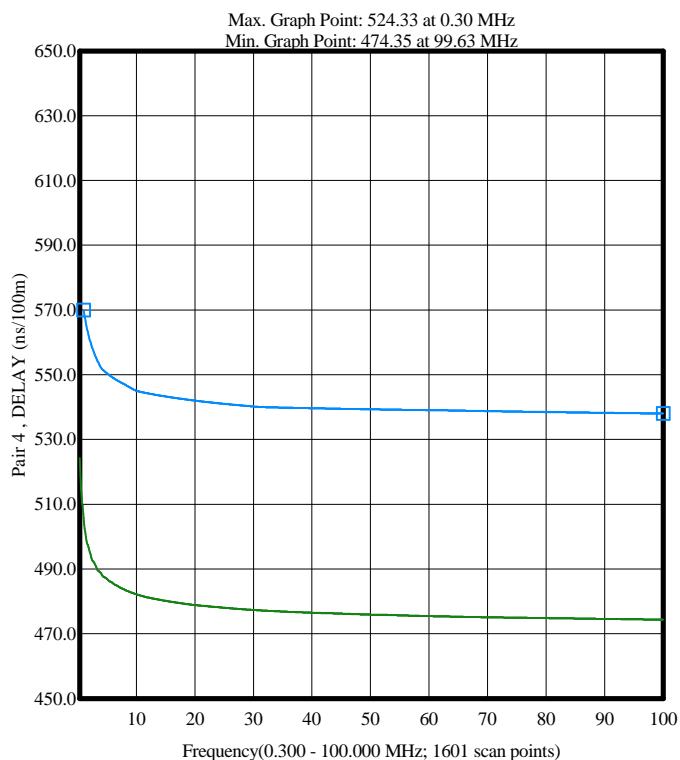
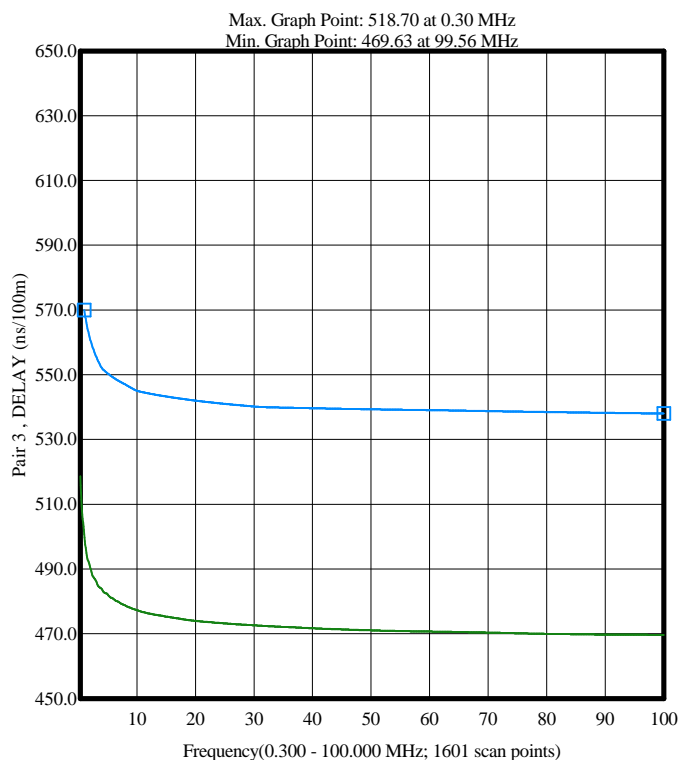
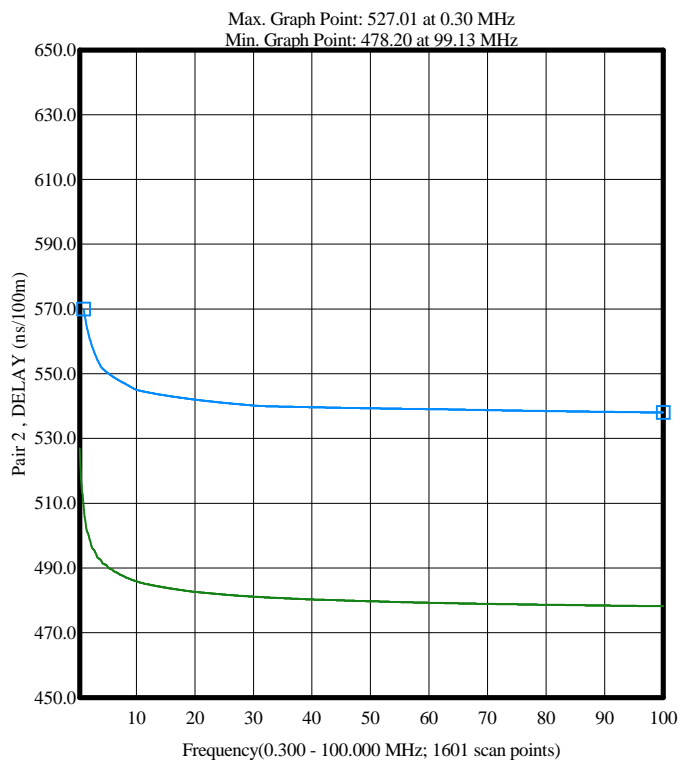
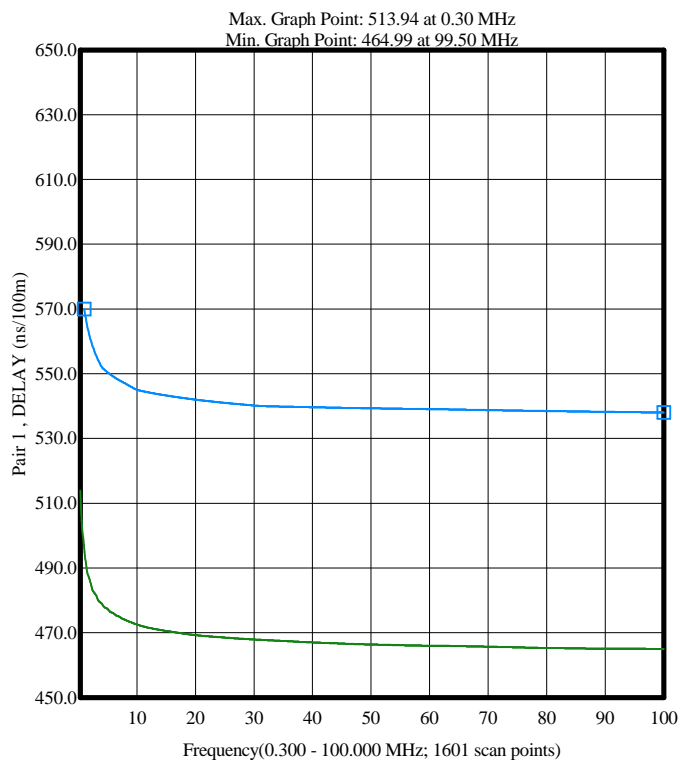
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Summary and Graphic: Propagation Delay (DELAY)

Pair	Spec (Max)(ns/100m)	Measured(ns/100m)	Margin (ns/100m)	@ Frequency (MHz)	Test Result
Pair 1 [1]	540.00	467.79	72.21	31.27	Passed
Pair 2 [2]	540.04	481.04	59.00	30.96	Passed
Pair 3 [3]	540.04	472.51	67.53	30.96	Passed
Pair 4 [4]	540.00	477.20	62.80	31.27	Passed



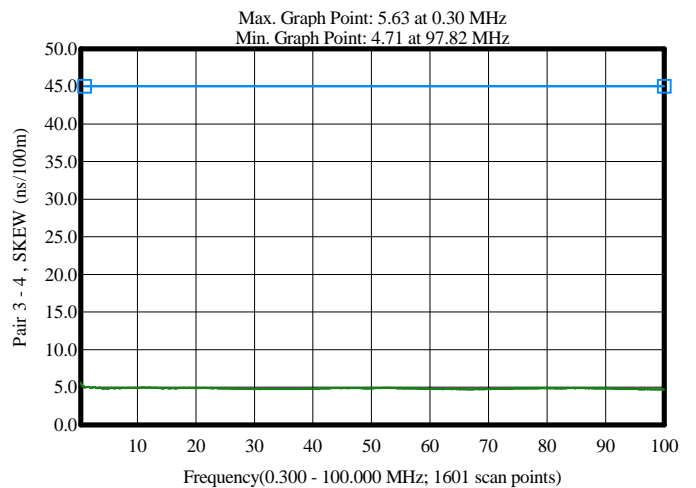
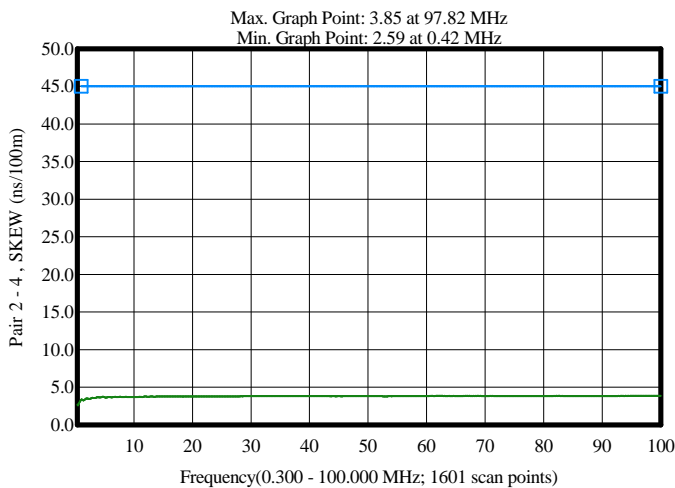
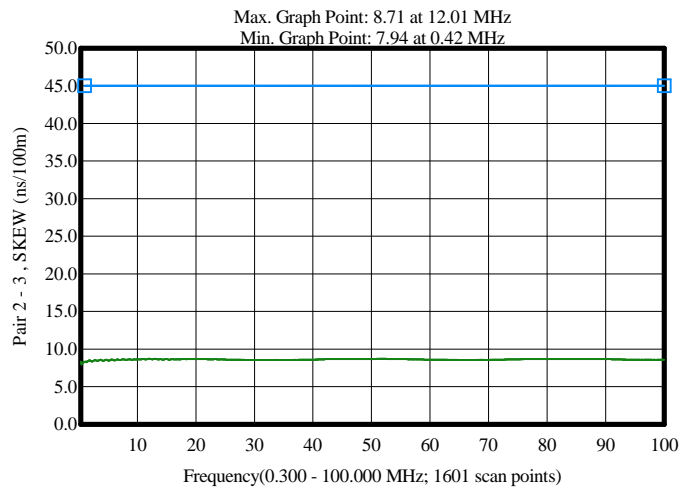
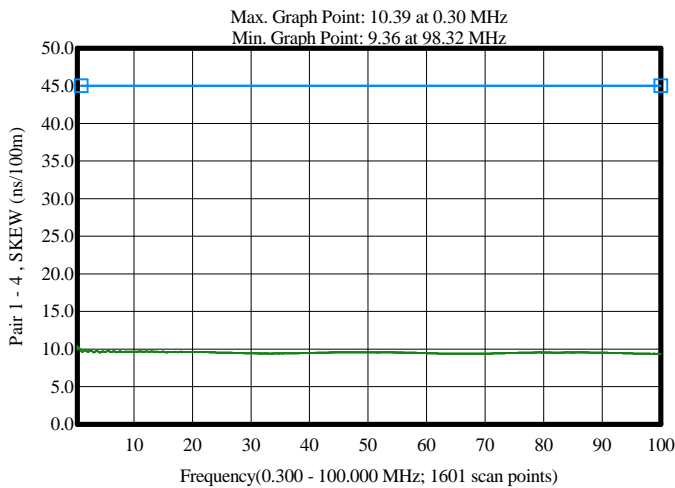
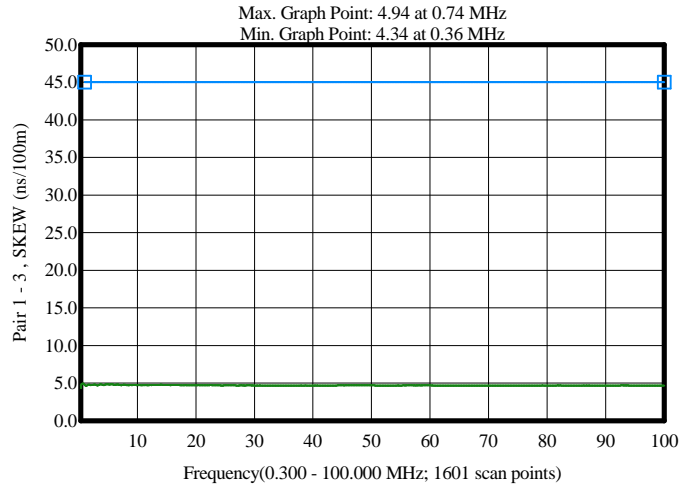
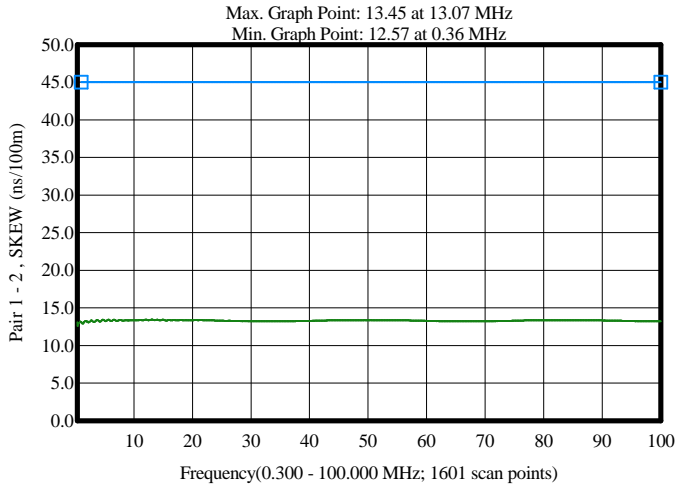
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Summary and Graphic: Propagation Delay Skew (SKEW)

Pair	Spec (Max)(ns/100m)	Measured(ns/100m)	Margin (ns/100m)	@ Frequency (MHz)	Test Result
Pair 1 - 2	45.00	13.45	31.55	13.07	Passed
Pair 1 - 3	45.00	4.85	40.15	4.72	Passed
Pair 1 - 4	45.00	9.84	35.16	1.67	Passed
Pair 2 - 3	45.00	8.71	36.29	12.01	Passed
Pair 2 - 4	45.00	3.85	41.15	97.82	Passed
Pair 3 - 4	45.00	5.06	39.94	1.48	Passed



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