

DCM Test Report

Cable Type : 4x2x24 x ALL FL-51CUI-08	Factory Number : FC01BC0401	Data File Name : DA329945.D3S
Cable I.D. : CAT5E U/UTP CABLE	Order Number : RC30130B00125-1	Specification File : SK-4HCT5-455(E).S3S
Temperature : 20.00 癈	Relative Humidity : 45 %	Test Date/Time : 02/15/2023 12:27:24 PM
Length : 100.00 m	Number of Pairs to Test : 4	Operator : GLY
Starting Position : 5		Analyzer Type : ENA

Pass - Fail Test Certificate - 4 Pairs

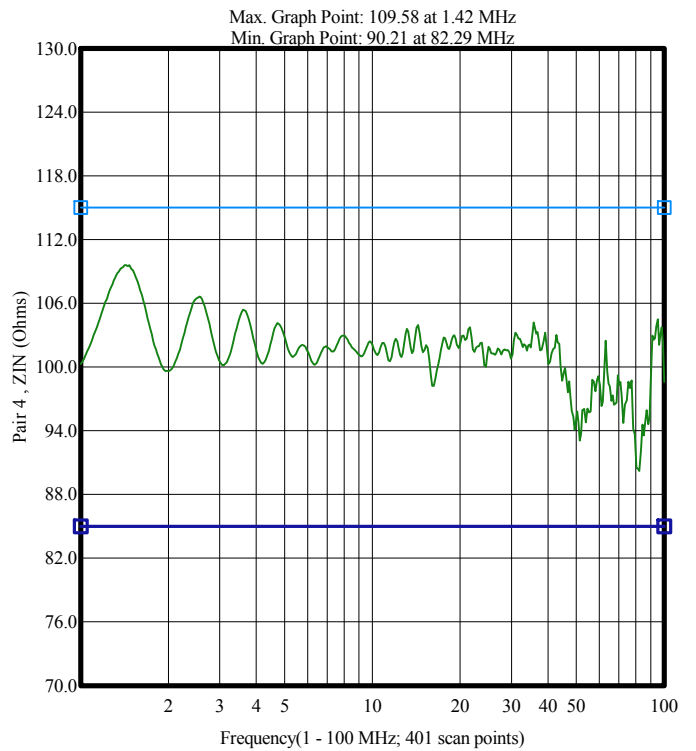
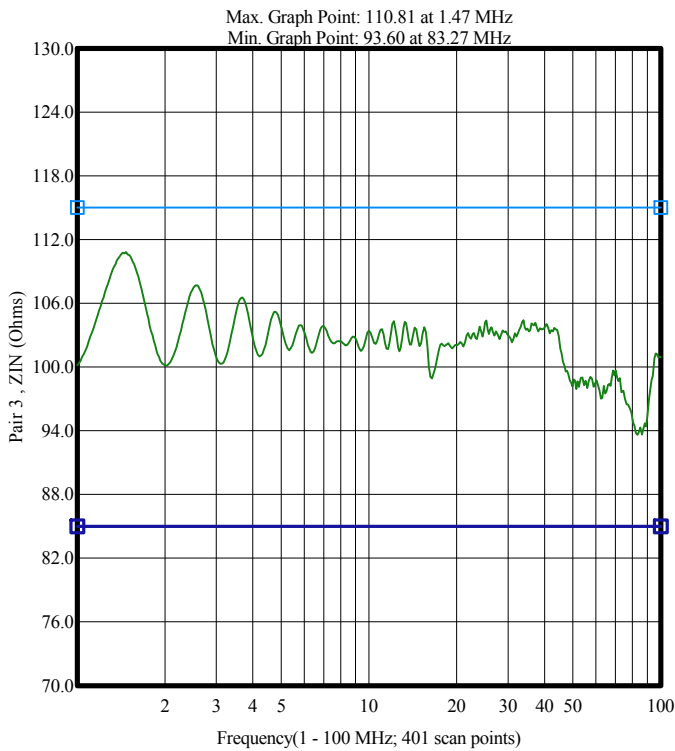
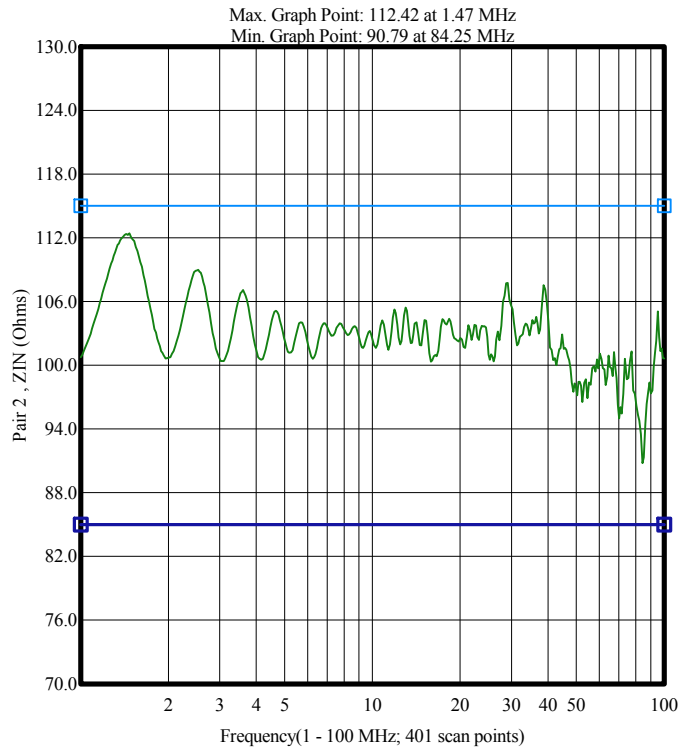
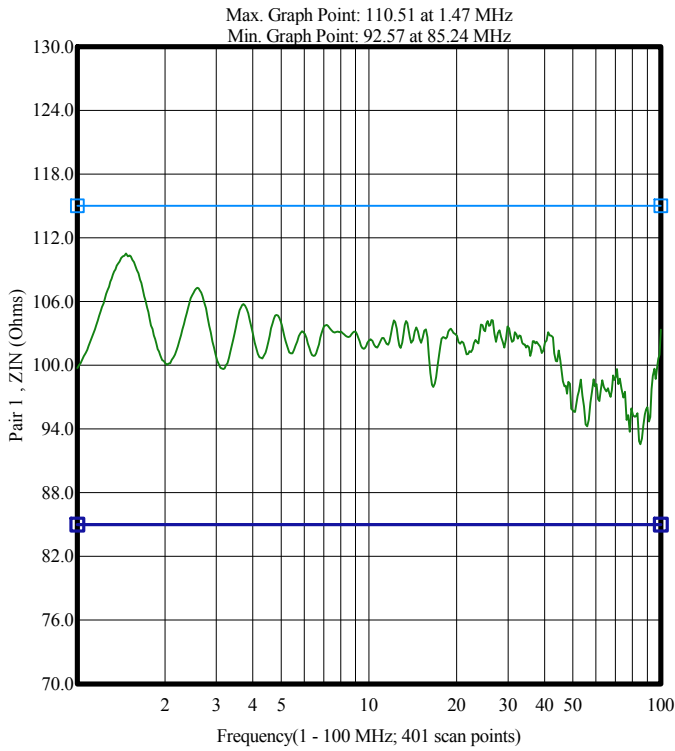
High Frequency

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 [5]	85.00	115.00	92.57	110.51	7.57	4.49	85.24	1.47	Passed
Pair 2 [6]	85.00	115.00	90.79	112.42	5.79	2.58	84.25	1.47	Passed
Pair 3 [7]	85.00	115.00	93.60	110.81	8.60	4.19	83.27	1.47	Passed
Pair 4 [8]	85.00	115.00	90.21	109.58	5.21	5.42	82.29	1.42	Passed



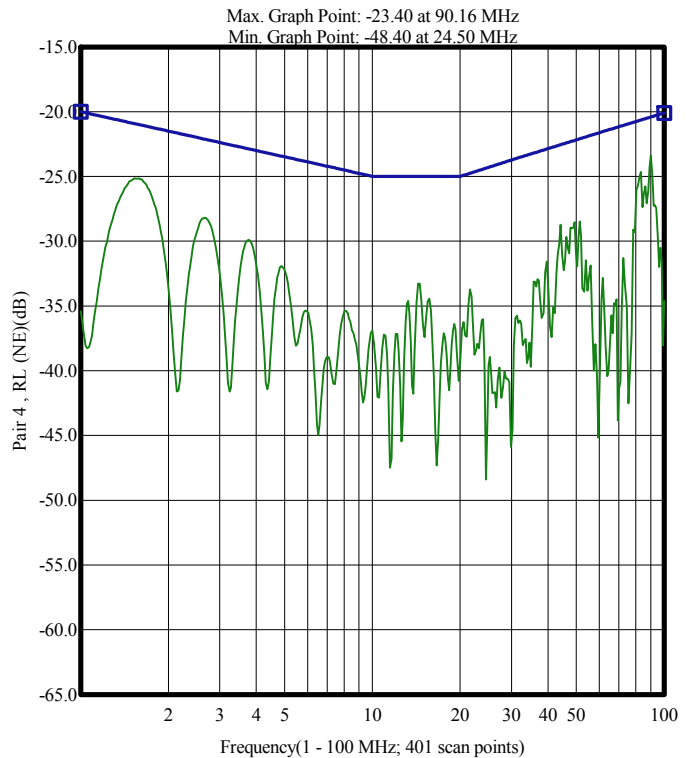
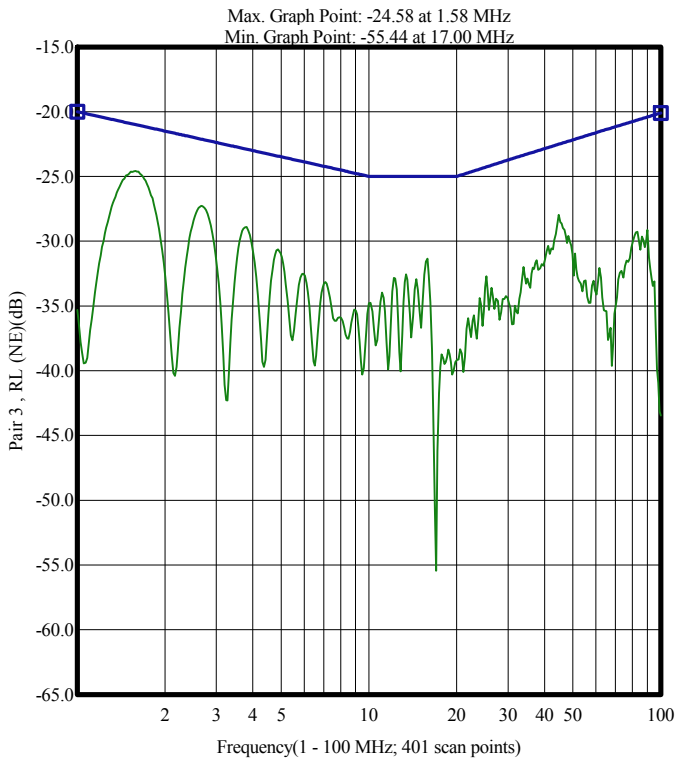
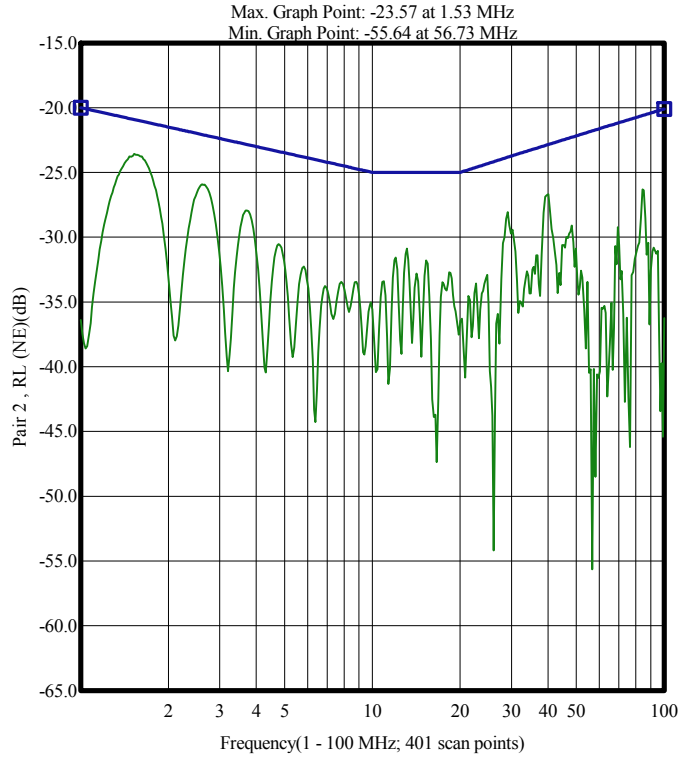
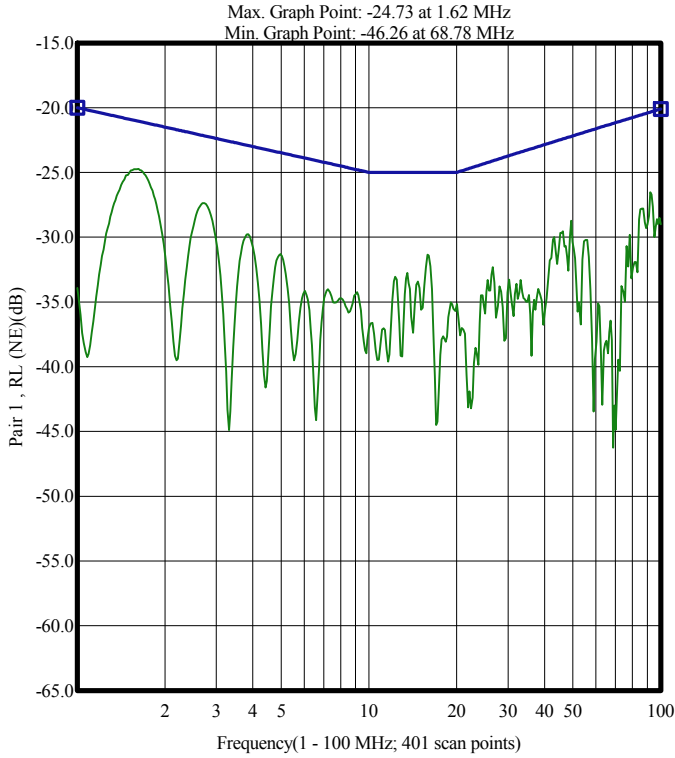
N/A = Not Applicable.
--- = Disable/Bypassed Pair.

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Summary and Graphic: Return Loss (RL)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 [5]	21.05	24.73	3.68	1.62	Passed
Pair 2 [6]	20.92	23.57	2.65	1.53	Passed
Pair 3 [7]	21.00	24.58	3.58	1.58	Passed
Pair 4 [8]	20.41	23.40	2.99	90.16	Passed



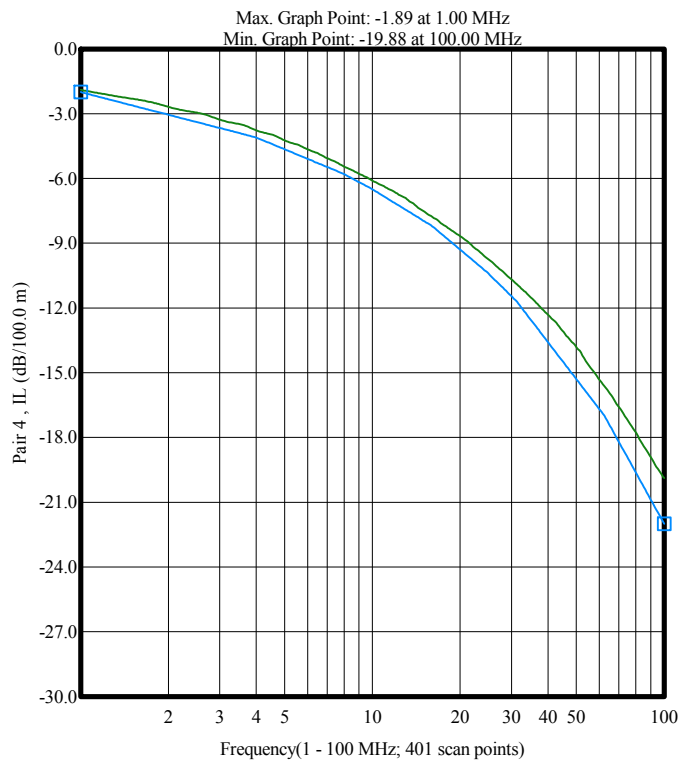
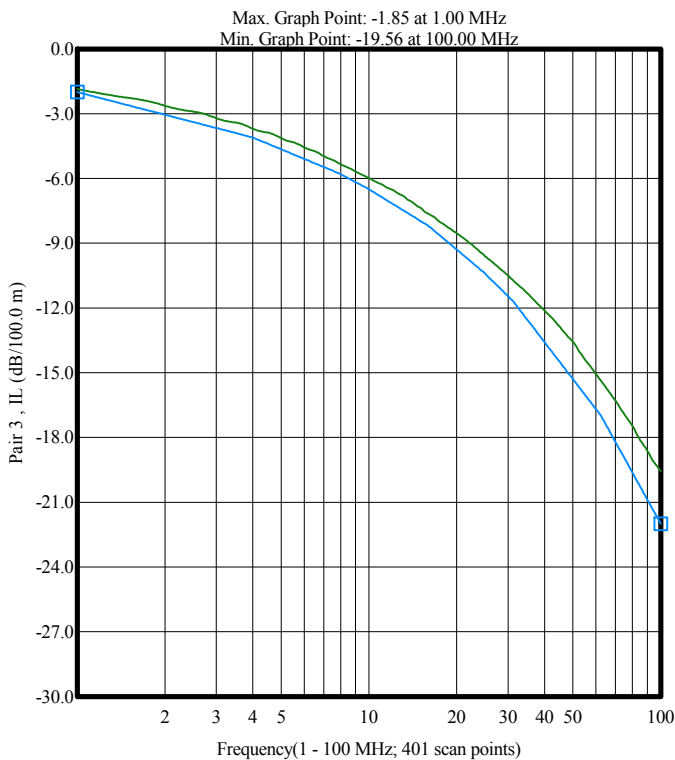
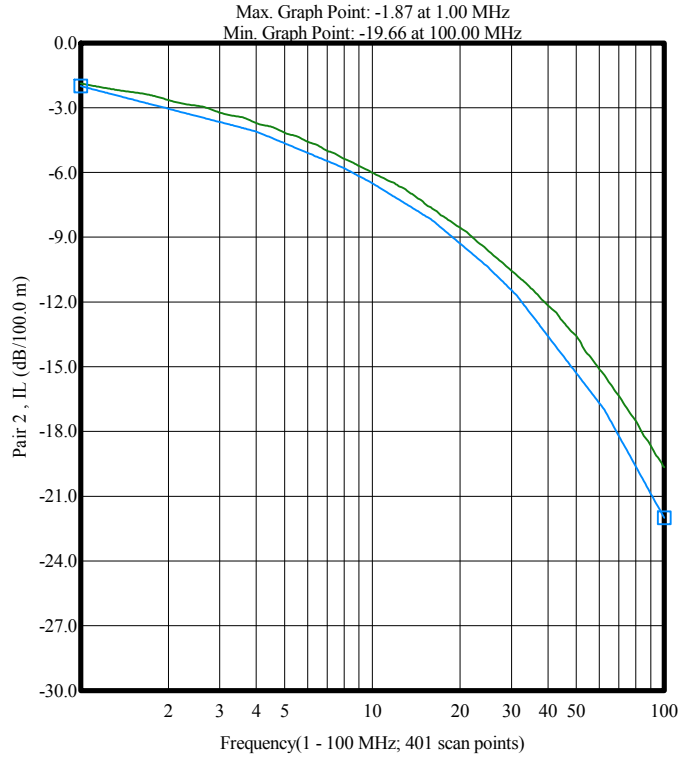
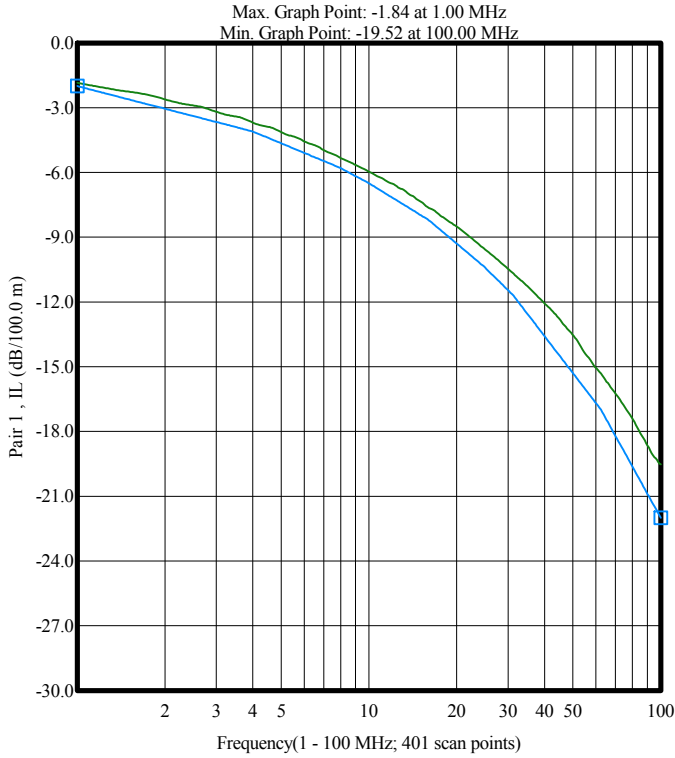
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Summary and Graphic: Insertion Loss (IL)@20C

Pair	Spec (Max)(dB/100.0 m)	Measured(dB/100.0 m)	Margin (dB/100.0 m)	@ Frequency (MHz)	Test Result
Pair 1 [5]	2.00	1.84	0.16	1.00	Passed
Pair 2 [6]	2.00	1.87	0.13	1.00	Passed
Pair 3 [7]	2.02	1.88	0.14	1.01	Passed
Pair 4 [8]	2.00	1.89	0.11	1.00	Passed



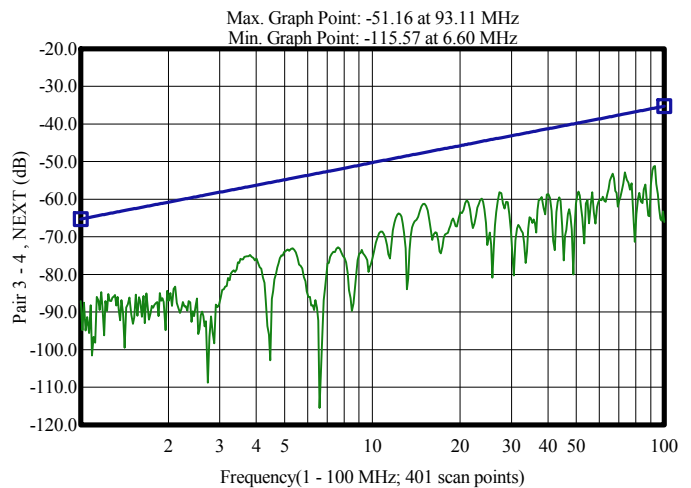
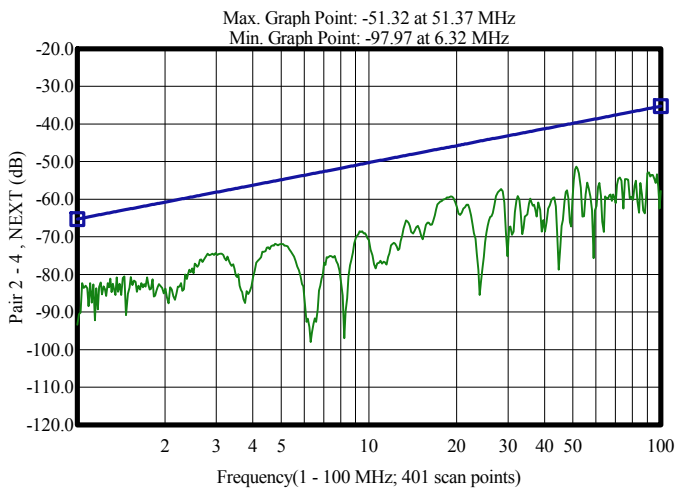
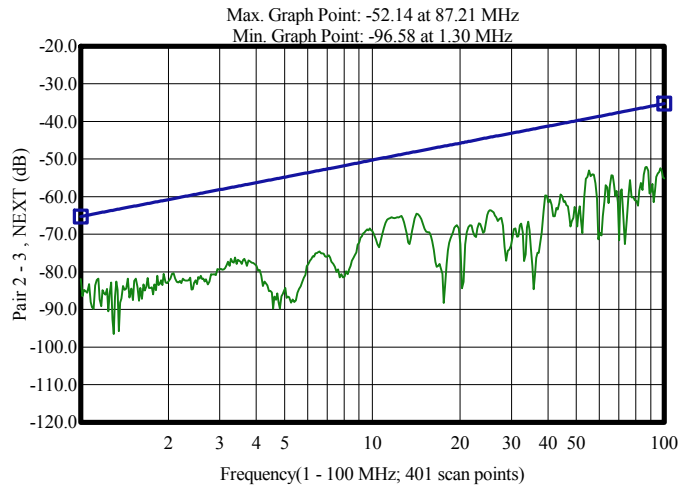
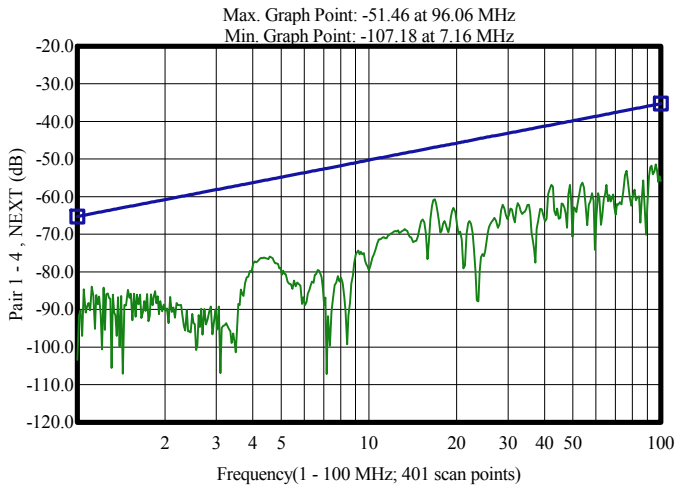
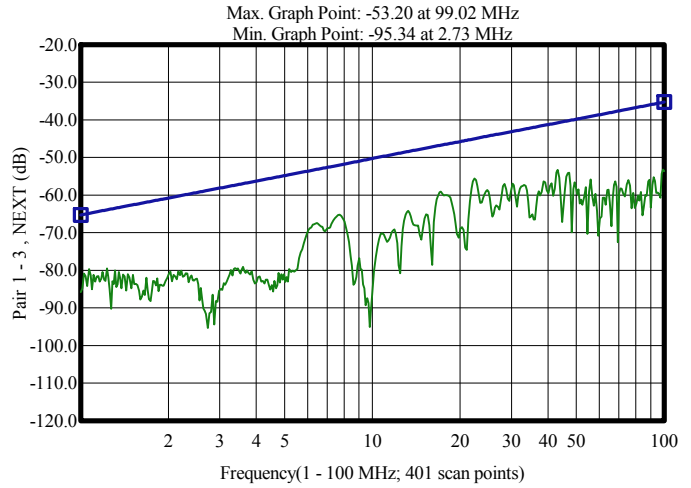
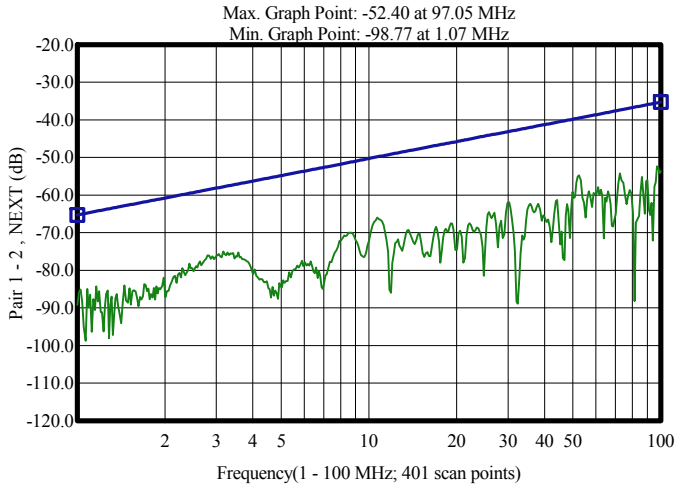
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Summary and Graphic: Near End Crosstalk Loss (NEXT)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 - 2	39.53	54.79	15.26	52.48	Passed
Pair 1 - 3	45.04	55.61	10.57	22.39	Passed
Pair 1 - 4	46.89	60.72	13.83	16.81	Passed
Pair 2 - 3	39.19	53.05	13.86	55.32	Passed
Pair 2 - 4	39.67	51.32	11.65	51.37	Passed
Pair 3 - 4	47.66	61.29	13.63	14.91	Passed



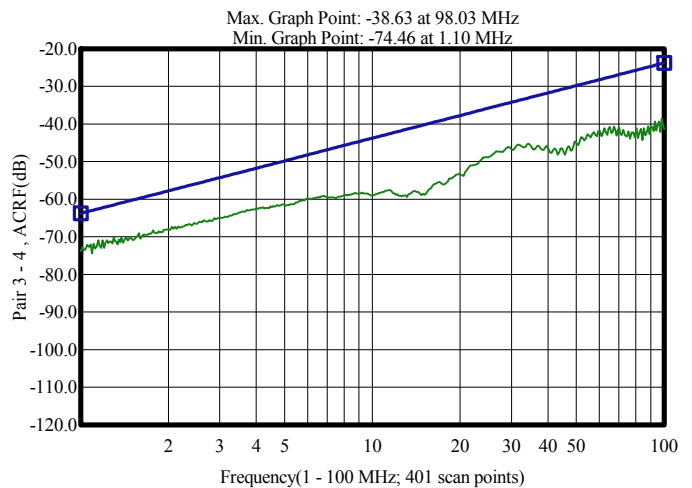
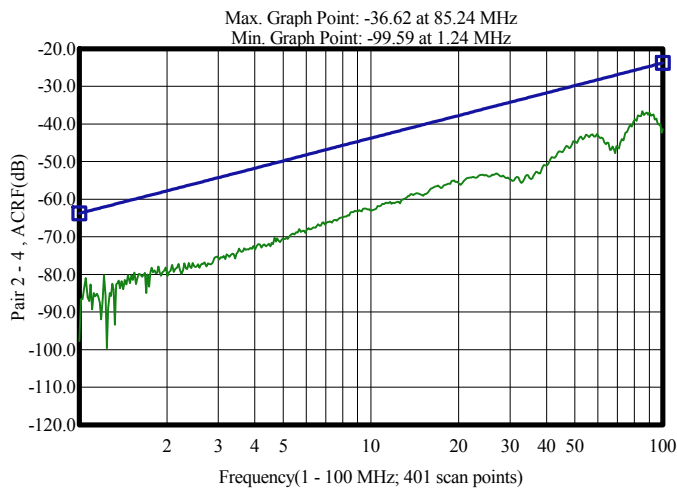
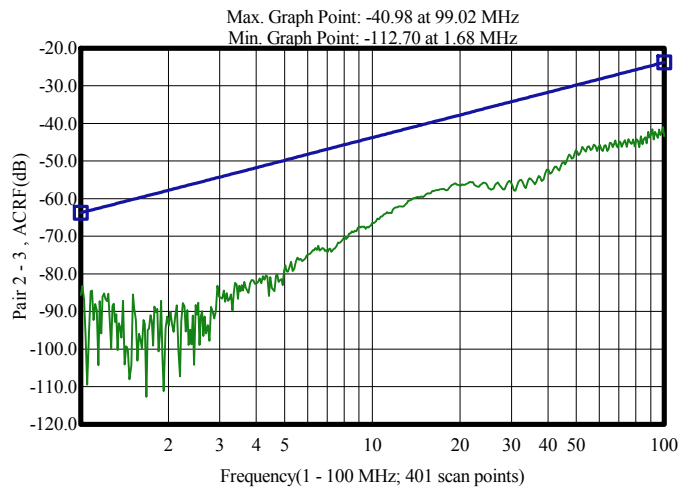
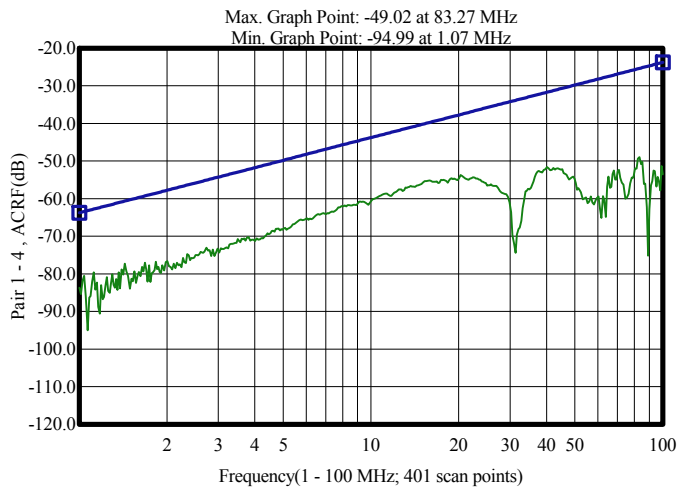
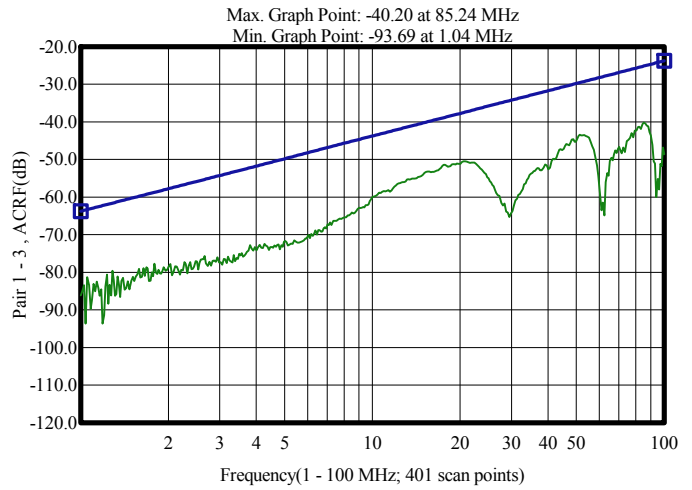
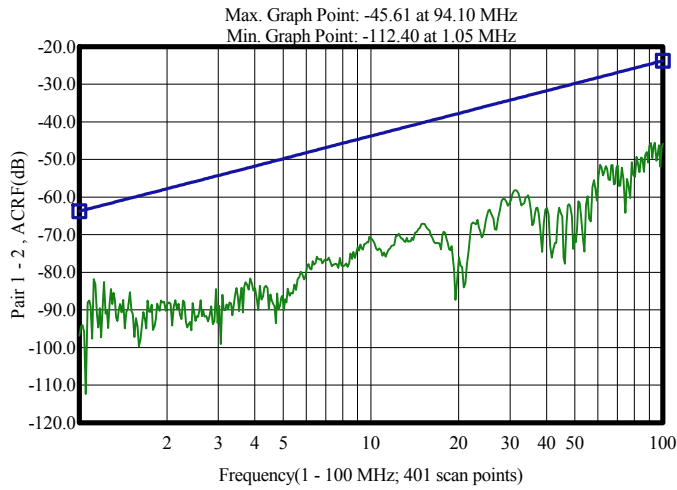
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Summary and Graphic: ACR to FEXT Ratio (ACRF)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 - 2	62.80	81.87	19.07	1.12	Passed
Pair 1 - 3	38.90	51.42	12.52	17.57	Passed
Pair 1 - 4	40.10	55.35	15.25	15.29	Passed
Pair 2 - 3	29.41	46.27	16.86	52.48	Passed
Pair 2 - 4	25.19	36.62	11.43	85.24	Passed
Pair 3 - 4	62.59	70.96	8.37	1.15	Passed



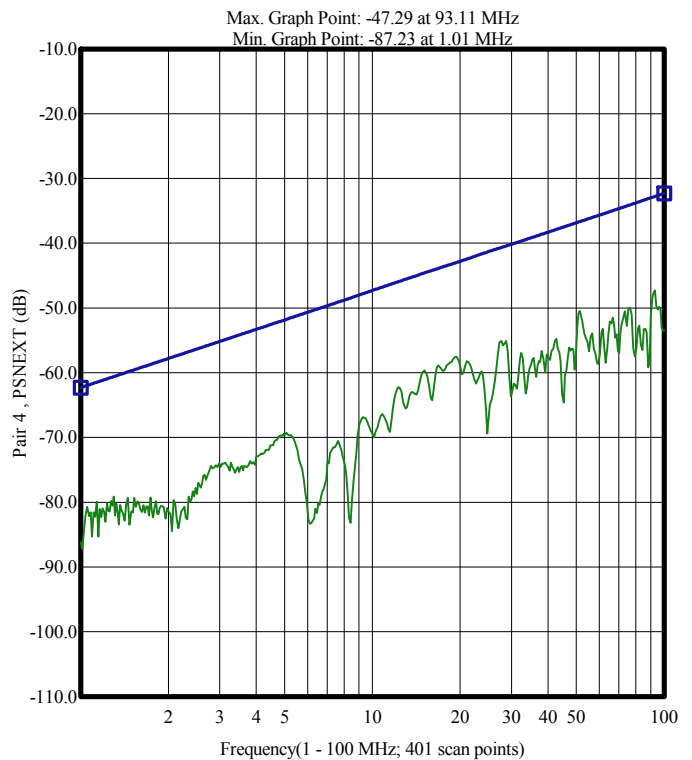
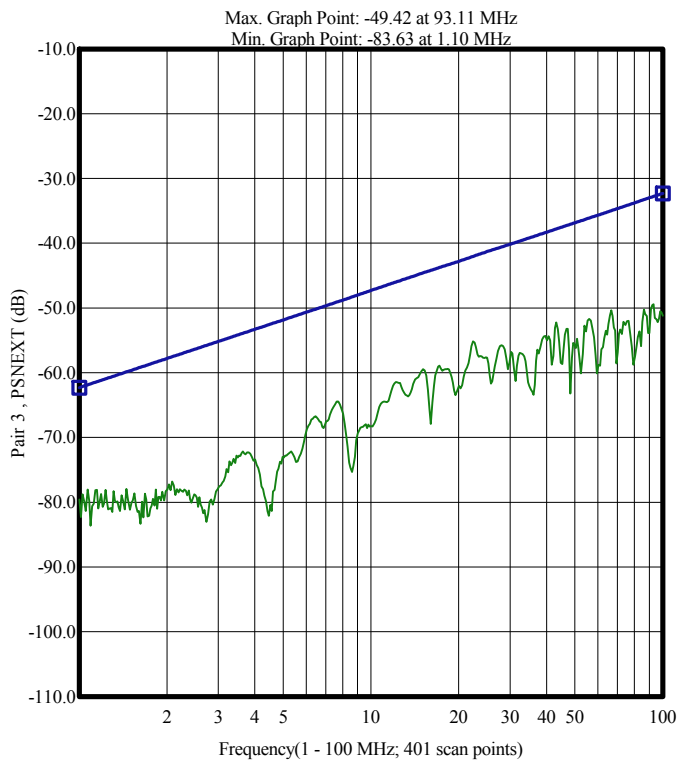
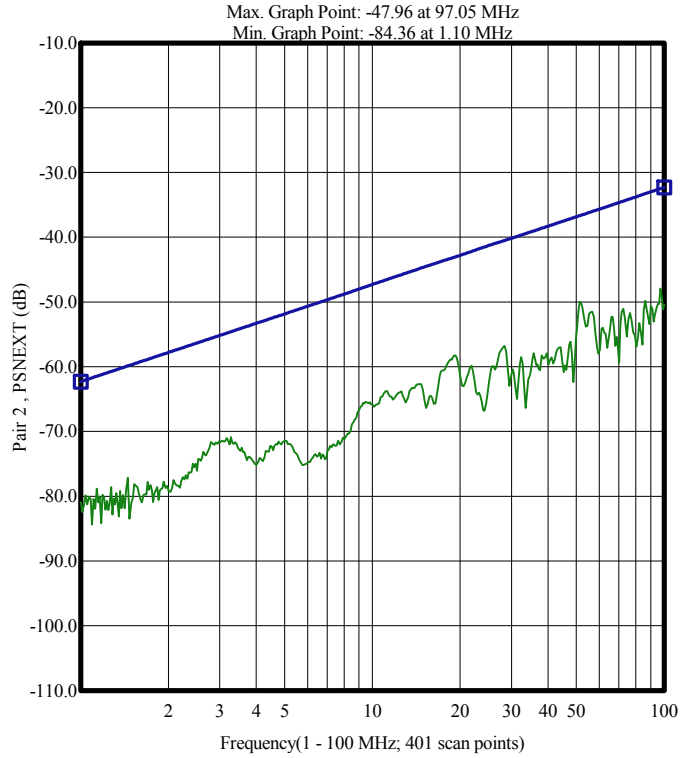
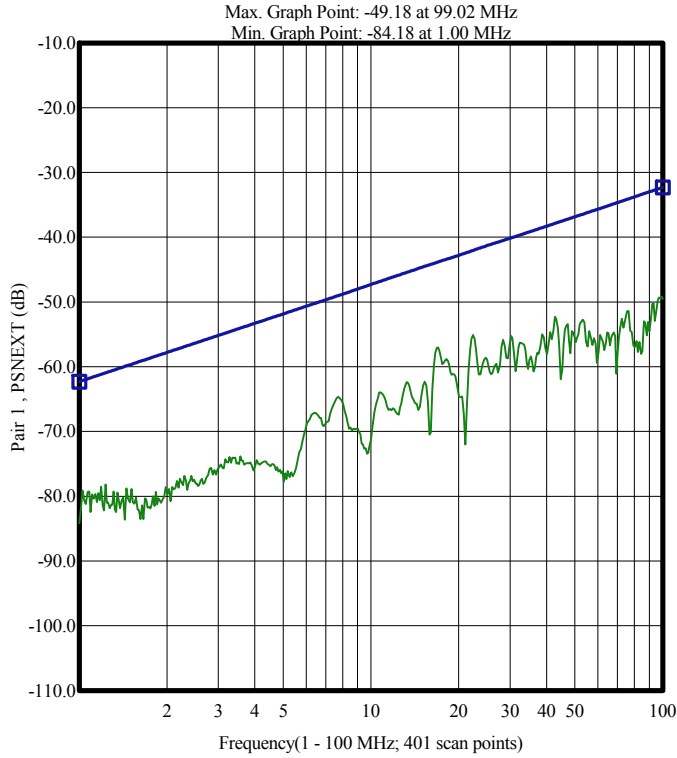
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Summary and Graphic: Power Sum NEXT(PSNEXT)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 [5]	42.04	55.10	13.06	22.39	Passed
Pair 2 [6]	36.67	49.97	13.30	51.37	Passed
Pair 3 [7]	42.04	55.15	13.11	22.39	Passed
Pair 4 [8]	36.67	50.45	13.78	51.37	Passed



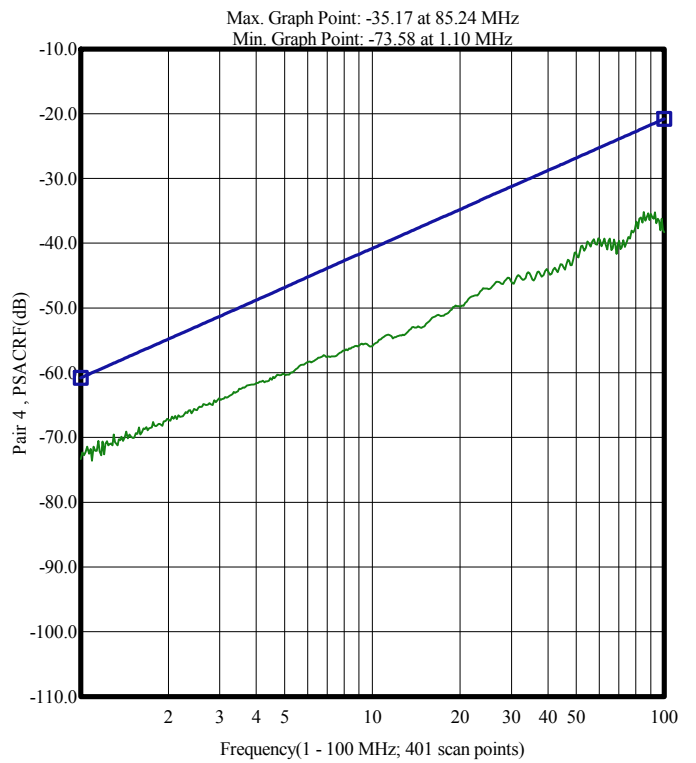
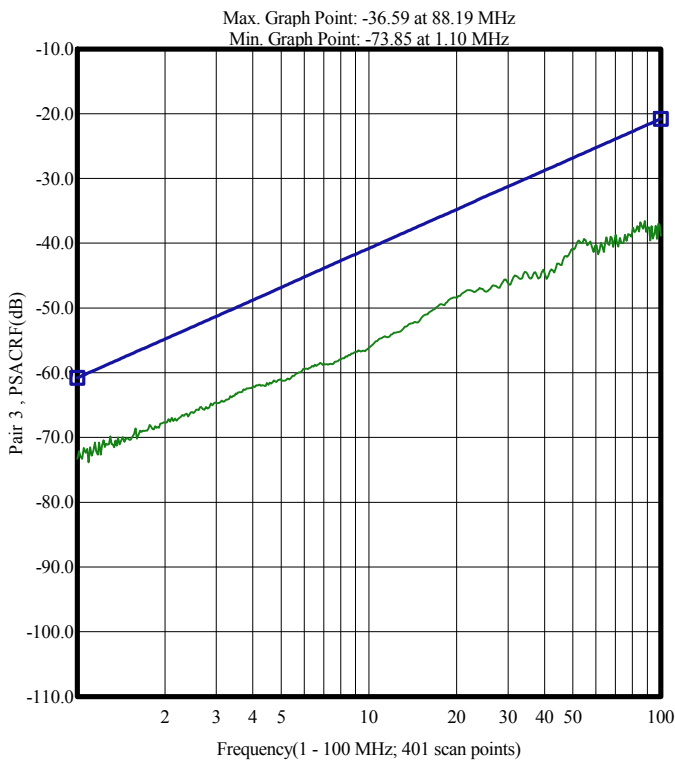
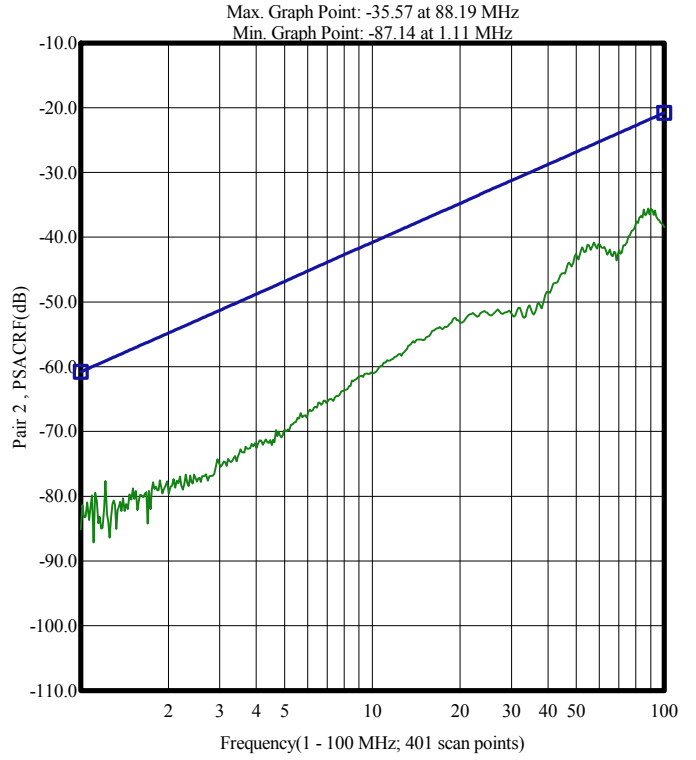
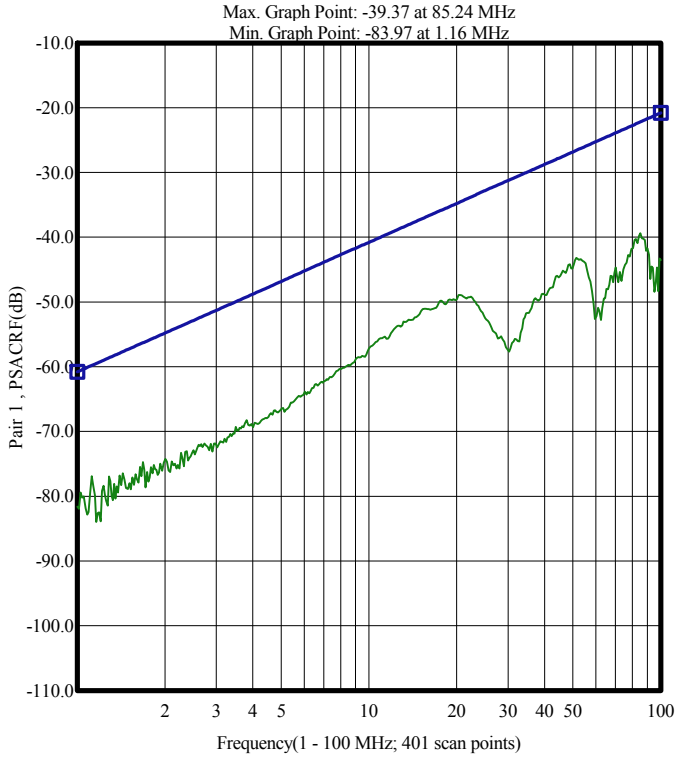
N/A = Not Applicable.
-- = Disable/Bypassed Pair.

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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 [5]	35.90	49.83	13.93	17.57	Passed
Pair 2 [6]	22.19	35.75	13.56	85.24	Passed
Pair 3 [7]	59.59	70.76	11.17	1.15	Passed
Pair 4 [8]	59.59	70.51	10.92	1.15	Passed



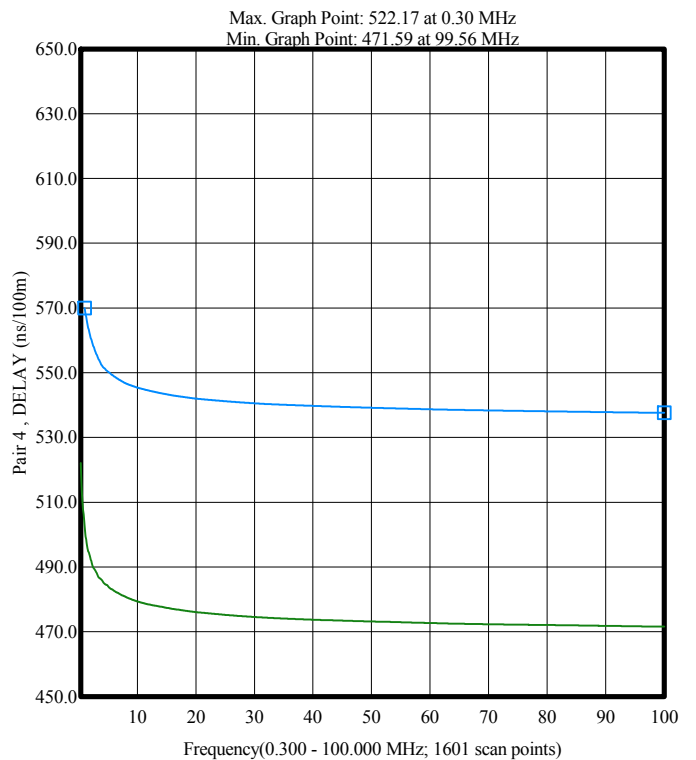
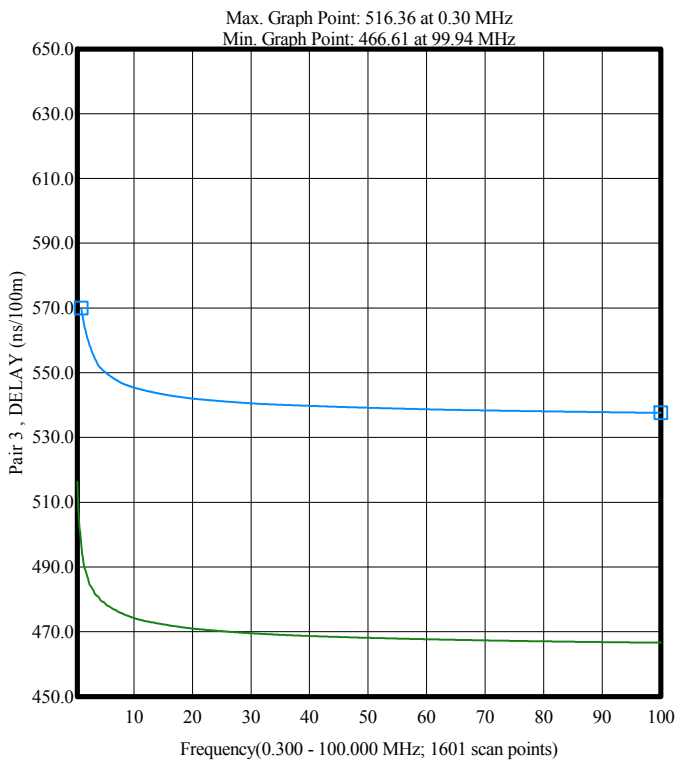
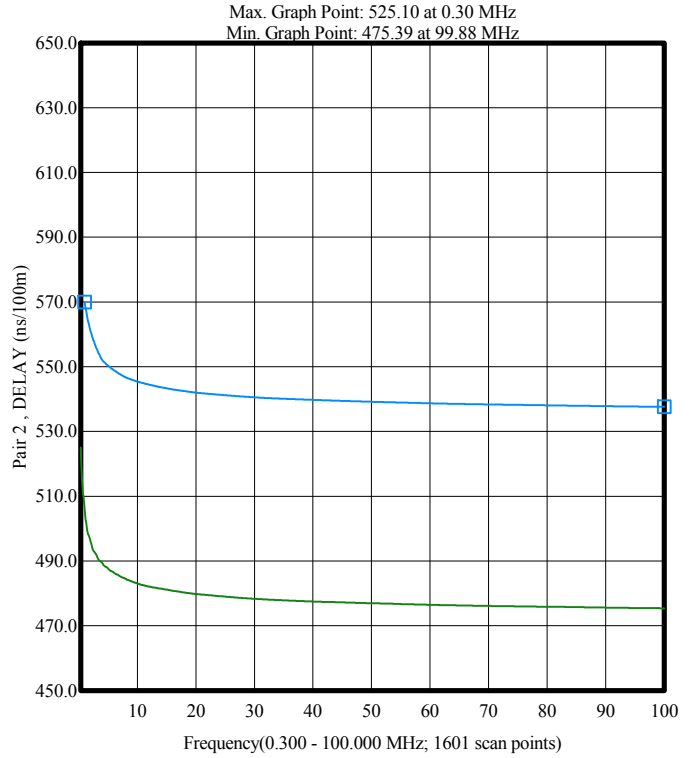
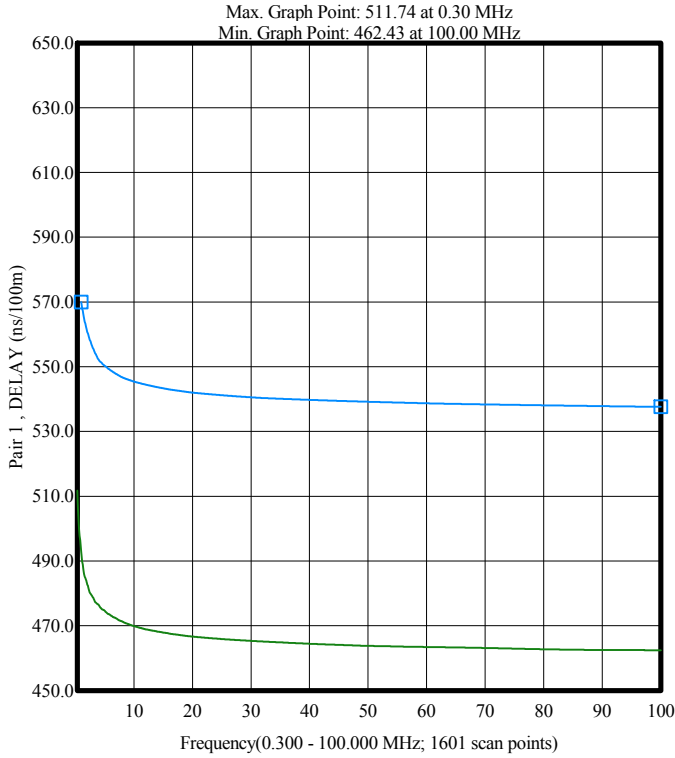
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Summary and Graphic: Propagation Delay (DELAY)

Pair	Spec (Max)(ns/100m)	Measured(ns/100m)	Margin (ns/100m)	@ Frequency (MHz)	Test Result
Pair 1 [5]	537.60	462.44	75.16	99.81	Passed
Pair 2 [6]	543.31	481.16	62.15	15.07	Passed
Pair 3 [7]	537.60	466.62	70.98	99.81	Passed
Pair 4 [8]	542.66	476.76	65.90	17.25	Passed



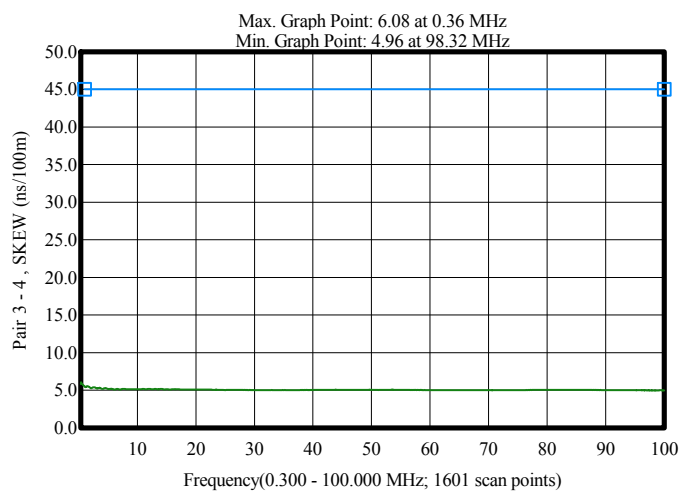
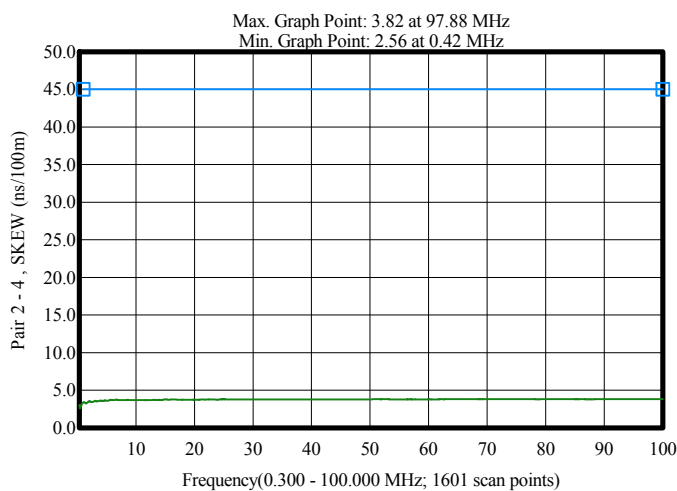
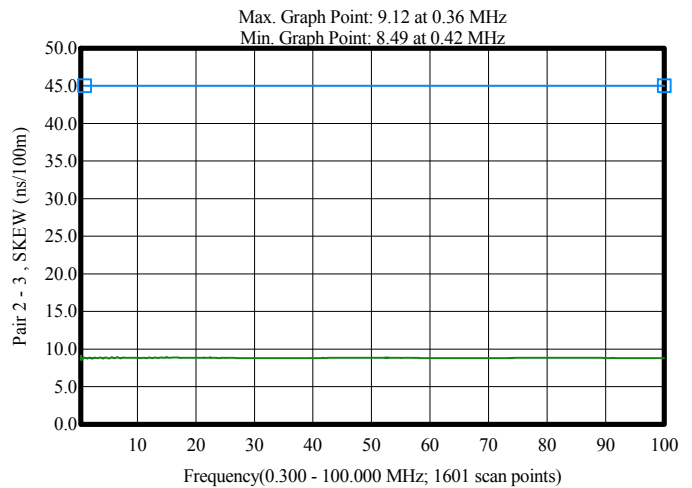
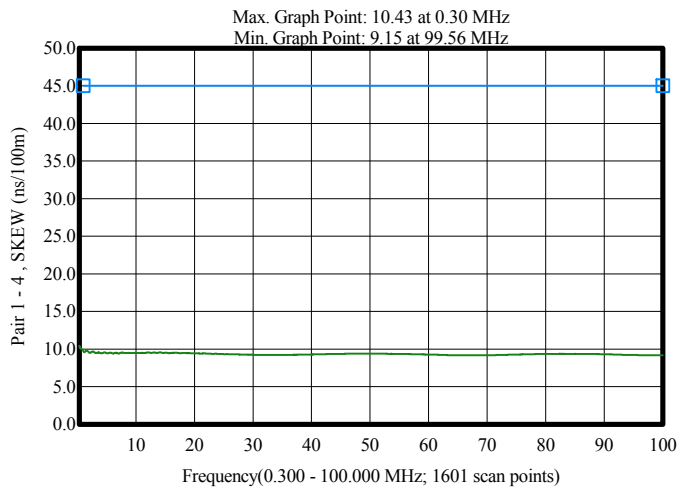
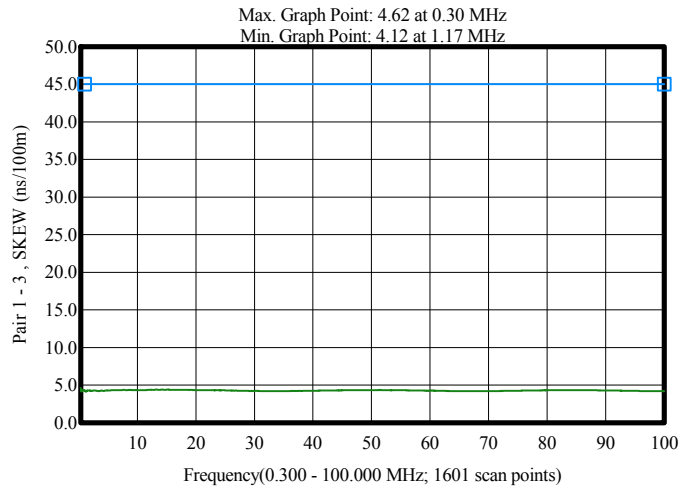
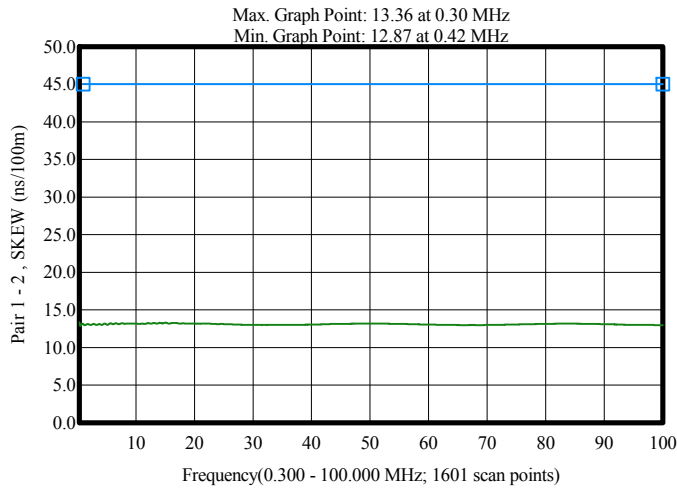
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Summary and Graphic: Propagation Delay Skew (SKEW)

Pair	Spec (Max)(ns/100m)	Measured(ns/100m)	Margin (ns/100m)	@ Frequency (MHz)	Test Result
Pair 1 - 2	45.00	13.30	31.70	15.07	Passed
Pair 1 - 3	45.00	4.40	40.60	14.26	Passed
Pair 1 - 4	45.00	9.82	35.18	1.48	Passed
Pair 2 - 3	45.00	8.91	36.09	15.07	Passed
Pair 2 - 4	45.00	3.82	41.18	97.88	Passed
Pair 3 - 4	45.00	5.54	39.46	1.42	Passed



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