

### DCM Test Report

Cable Type : 4x2x23 x ALL	Factory Number : 2019092001	Data File Name : DA141595.D3S
Cable I.D. : CAT6 F/UTP CABLE	Order Number : J06191015B008	Specification File : SK-4FCT6-078.S3S
Temperature : 23.00 癈	Relative Humidity : 50 %	Test Date/Time : 10/16/2019 01:27:47 PM
Length : 100.00 m	Number of Pairs to Test : 4	Operator : GH
Starting Position : 5		Analyzer Type : ENA

### Pass - Fail Test Certificate - 4 Pairs

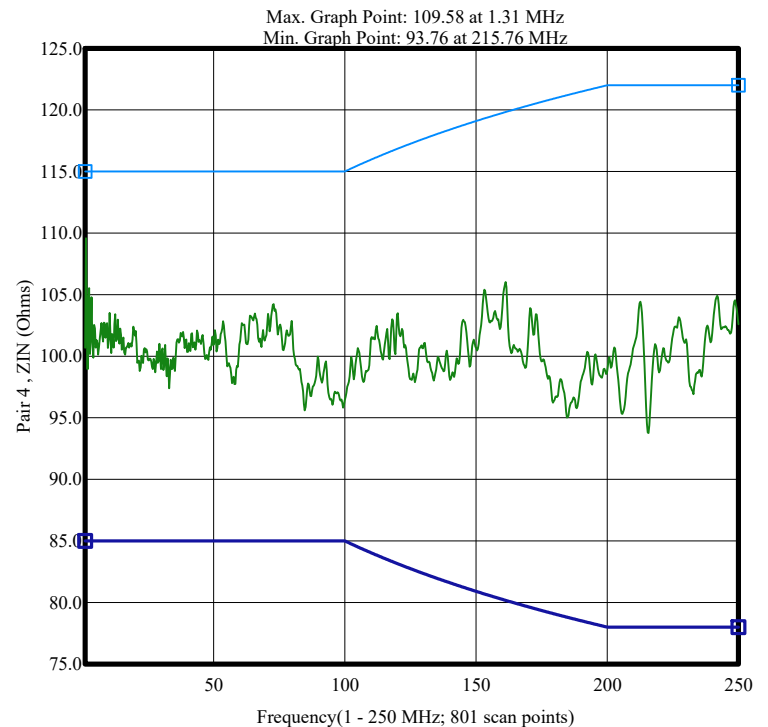
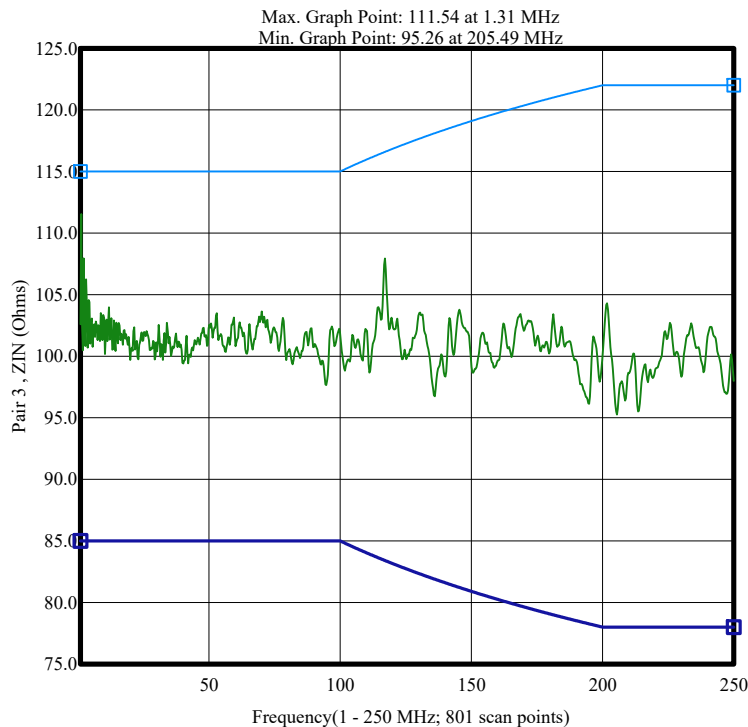
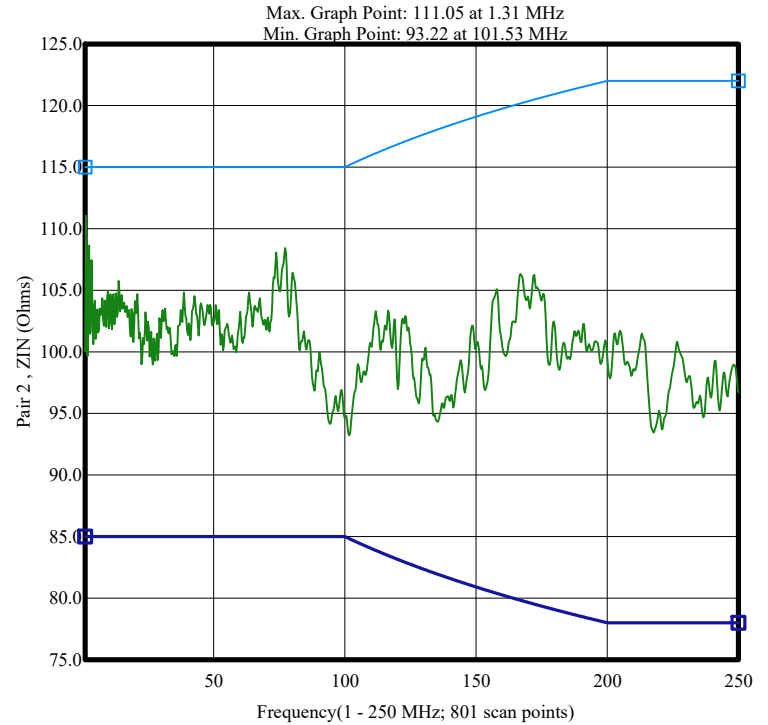
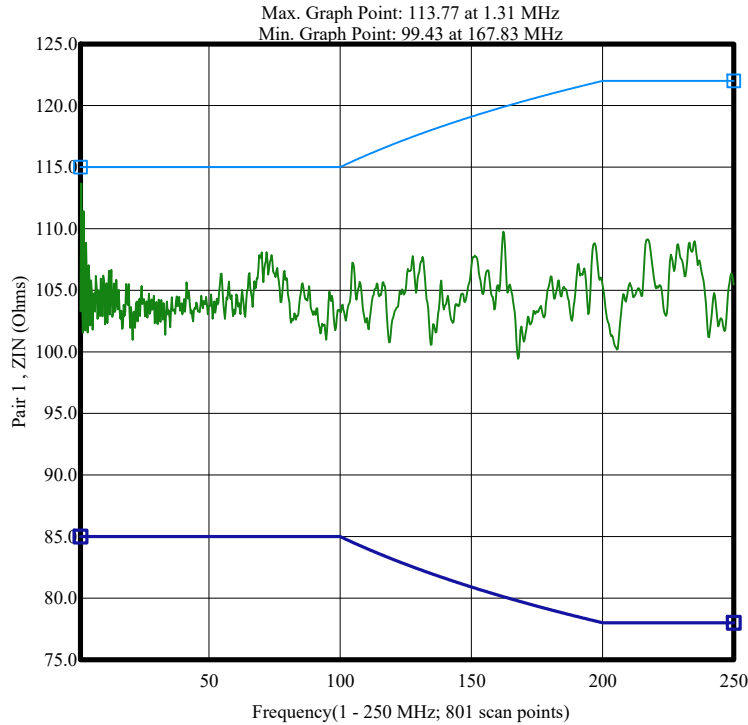
#### High Frequency

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

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	100.97	113.77	15.97	1.23	20.92	1.31	Passed
Pair 2 [6]	84.85	115.00	93.22	111.05	8.37	3.95	101.53	1.31	Passed
Pair 3 [7]	85.00	115.00	97.66	111.54	12.66	3.46	94.69	1.31	Passed
Pair 4 [8]	85.00	115.00	95.60	109.58	10.60	5.42	84.73	1.31	Passed



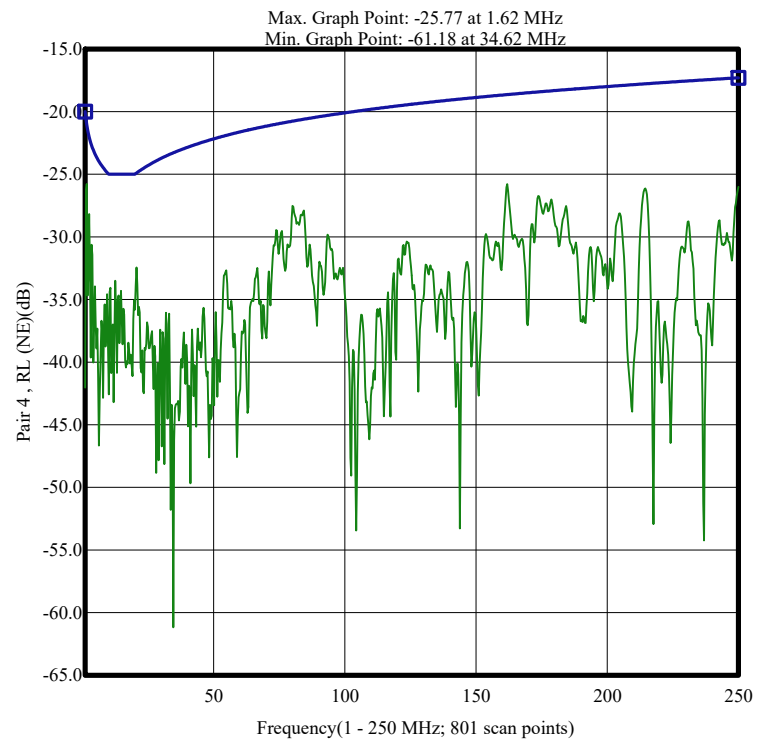
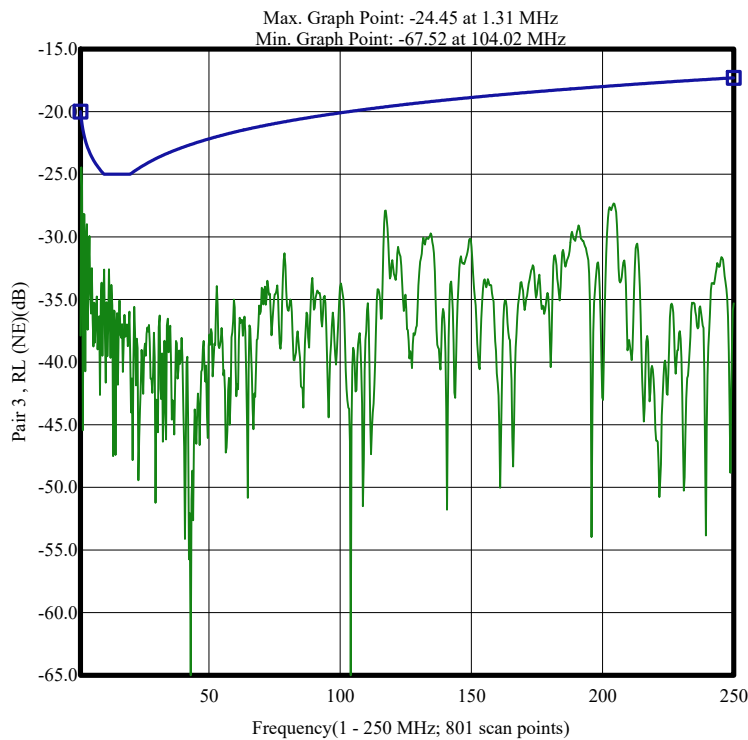
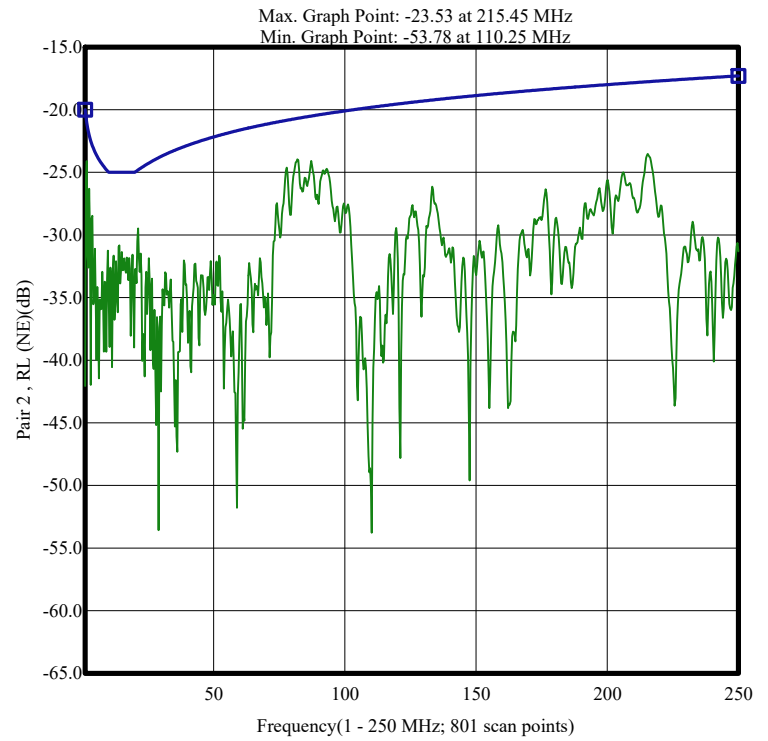
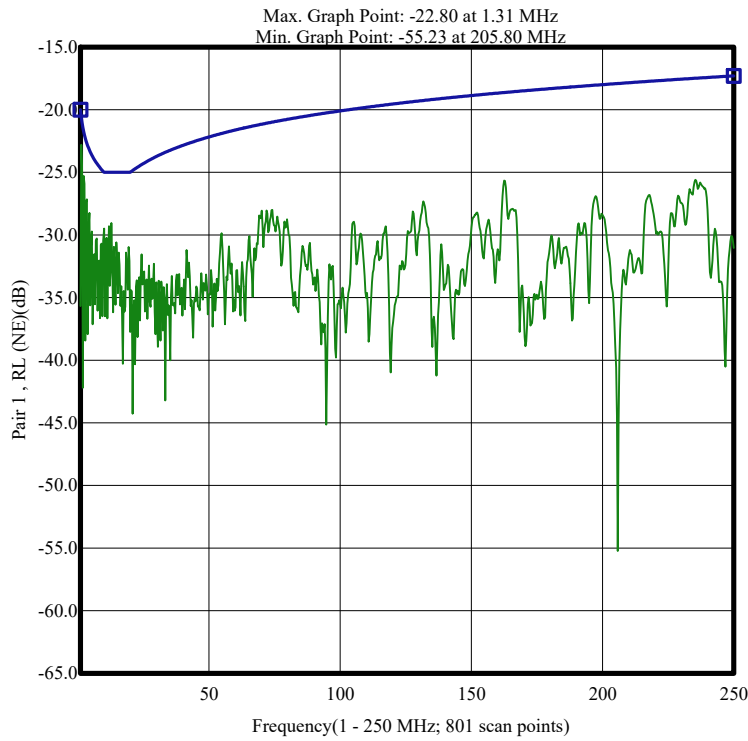
N/A = Not Applicable.  
--- = Disable/Bypassed Pair.

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

\*\*\* = Measured value is invalid.

### Summary and Graphic: Return Loss (RL)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 [5]	20.59	22.80	2.21	1.31	Passed
Pair 2 [6]	21.05	24.10	3.05	1.62	Passed
Pair 3 [7]	20.59	24.45	3.86	1.31	Passed
Pair 4 [8]	21.05	25.77	4.72	1.62	Passed



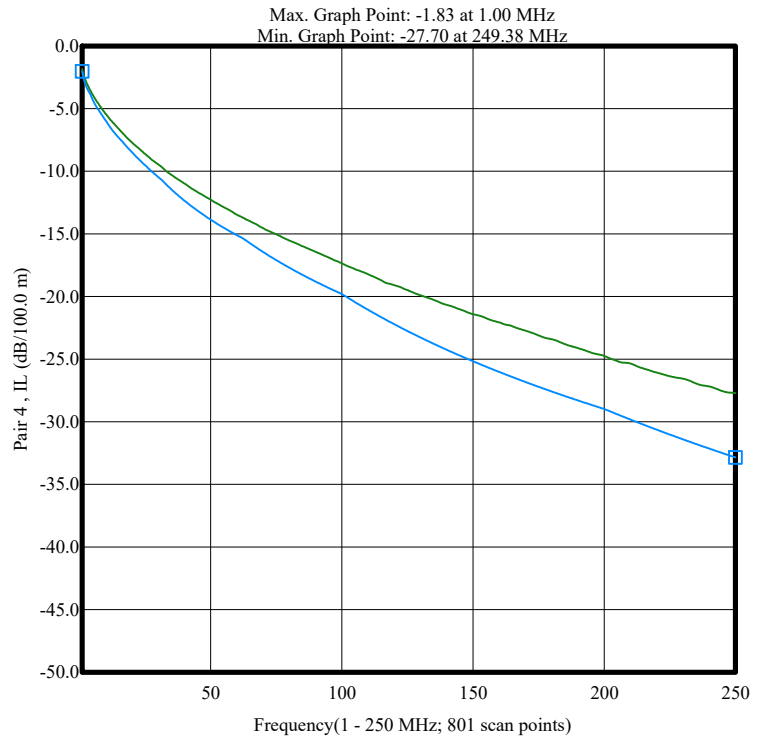
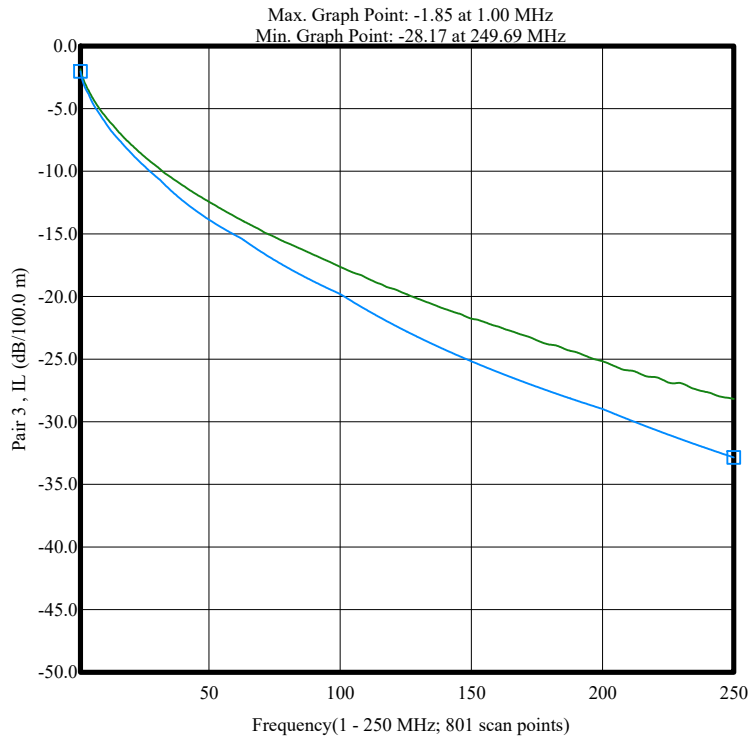
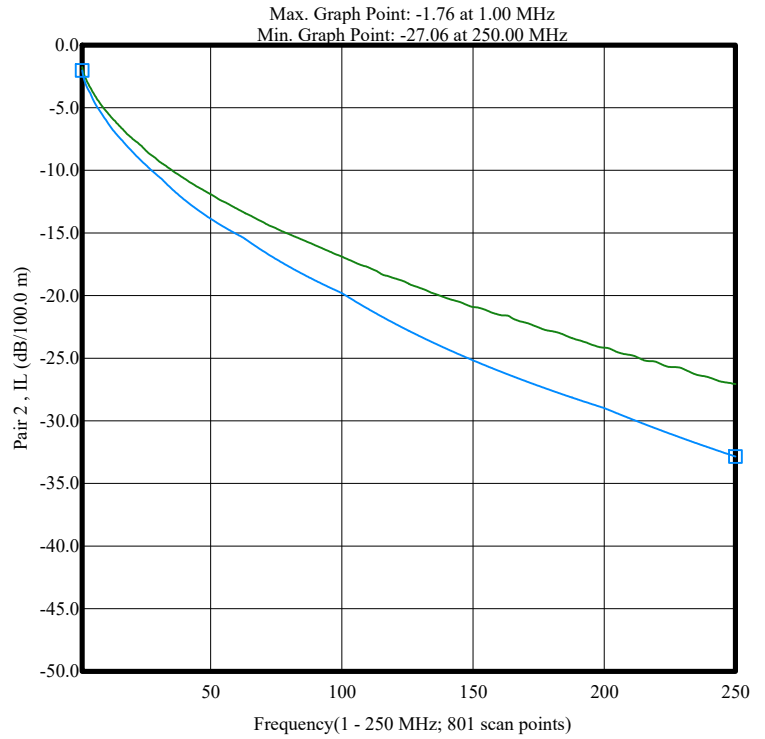
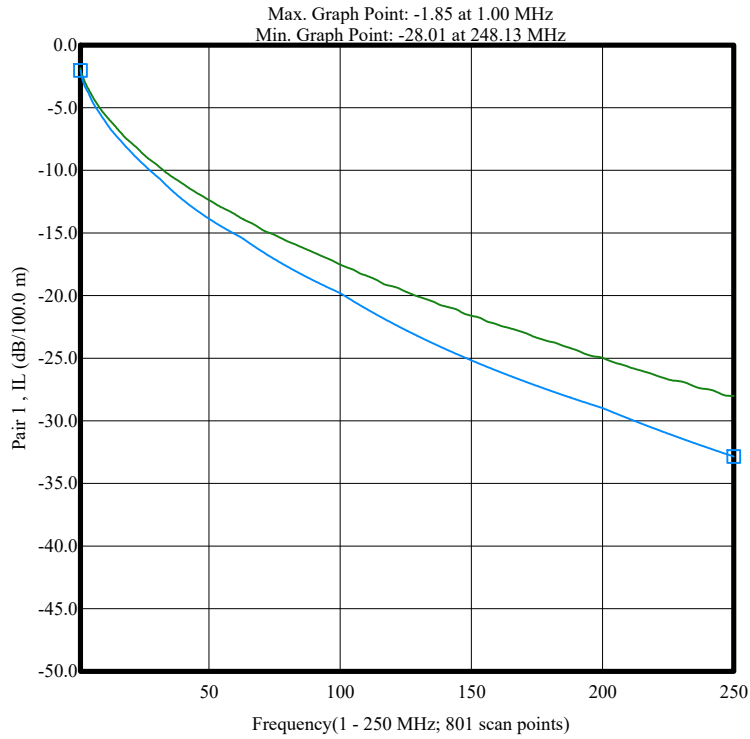
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### Summary and Graphic: Insertion Loss (IL)(Curve Fit)@20C

Pair	Spec (Max)(dB/100.0 m)	Measured(dB/100.0 m)	Margin (dB/100.0 m)	@ Frequency (MHz)	Test Result
Pair 1 [5]	2.03	1.85	0.18	1.00	Passed
Pair 2 [6]	2.03	1.76	0.27	1.00	Passed
Pair 3 [7]	2.03	1.85	0.18	1.00	Passed
Pair 4 [8]	2.03	1.83	0.20	1.00	Passed



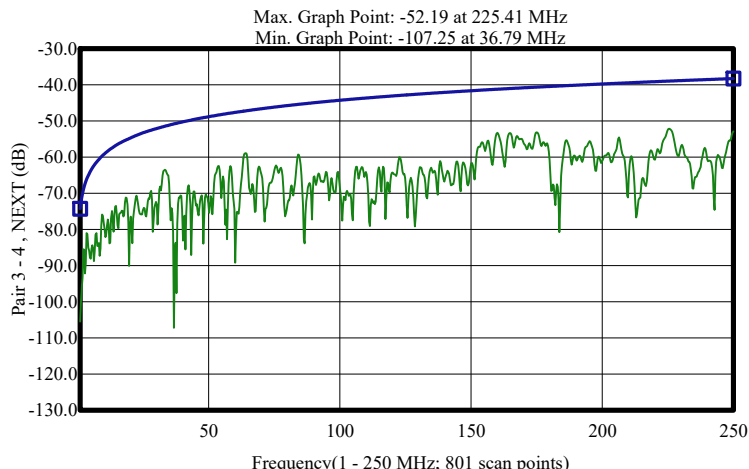
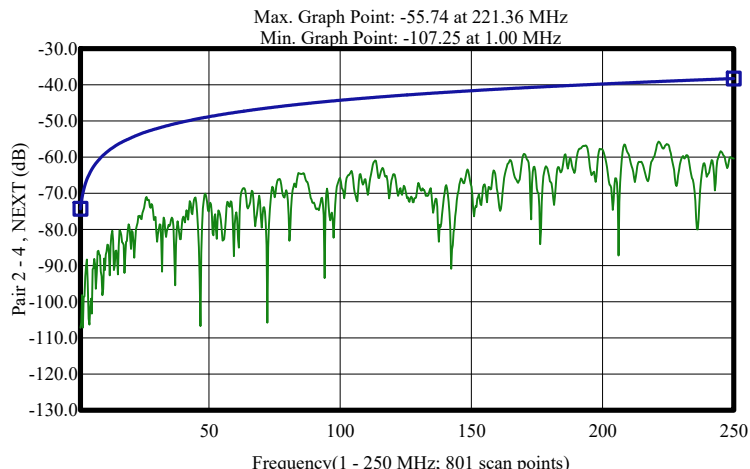
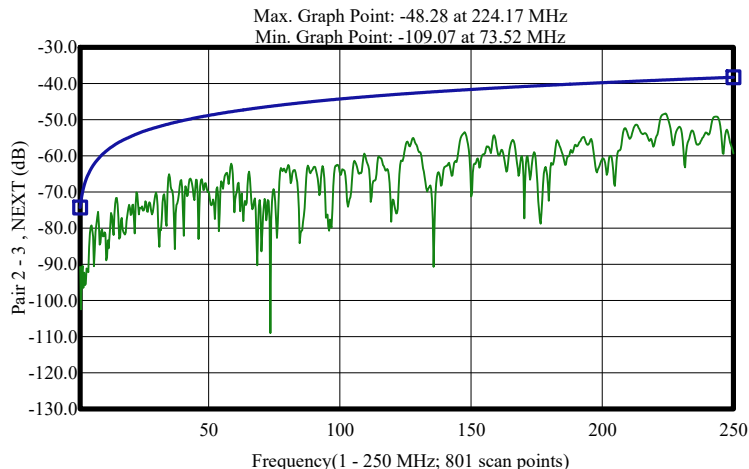
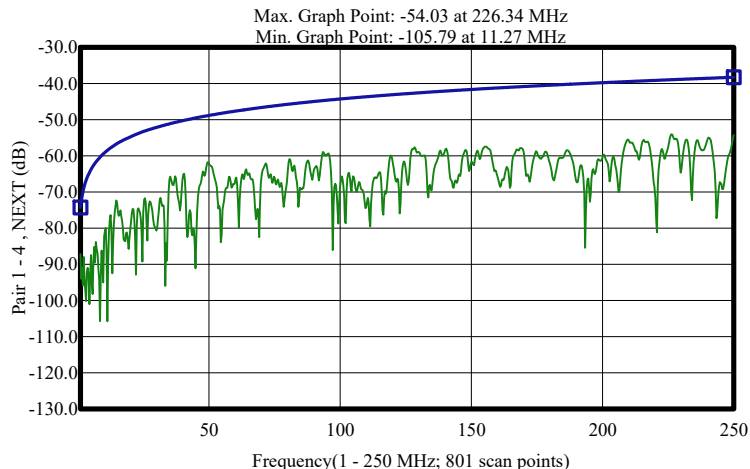
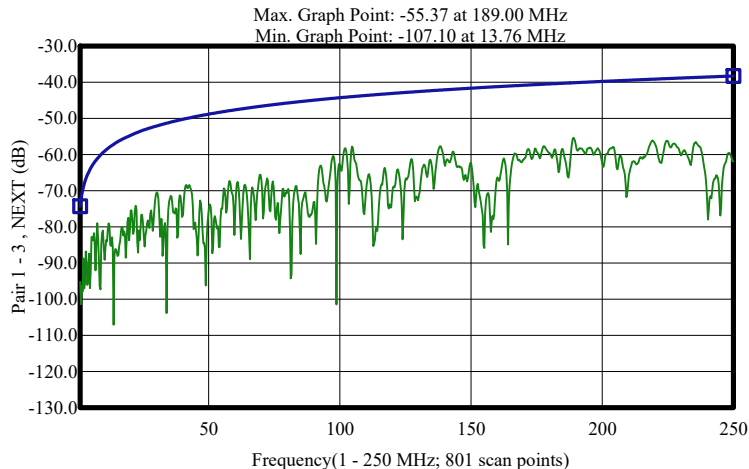
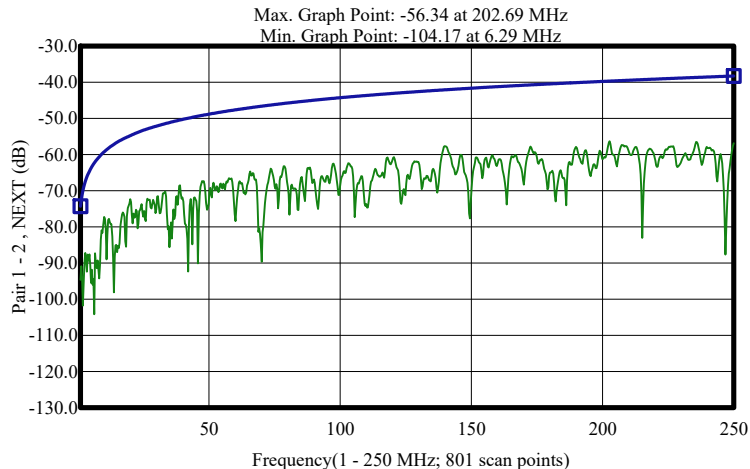
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### Summary and Graphic: Near End Crosstalk Loss (NEXT)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 - 2	42.12	57.67	15.55	139.82	Passed
Pair 1 - 3	44.01	57.80	13.79	104.65	Passed
Pair 1 - 4	48.91	61.74	12.83	49.56	Passed
Pair 2 - 3	39.03	48.28	9.25	224.17	Passed
Pair 2 - 4	39.12	55.74	16.62	221.36	Passed
Pair 3 - 4	47.22	58.91	11.69	64.18	Passed



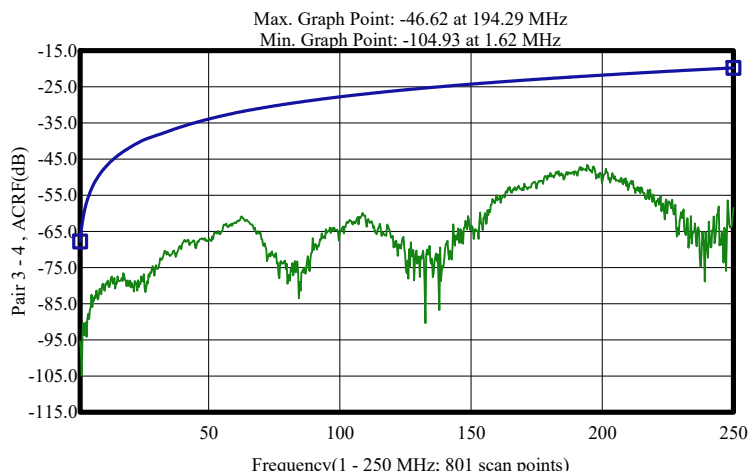
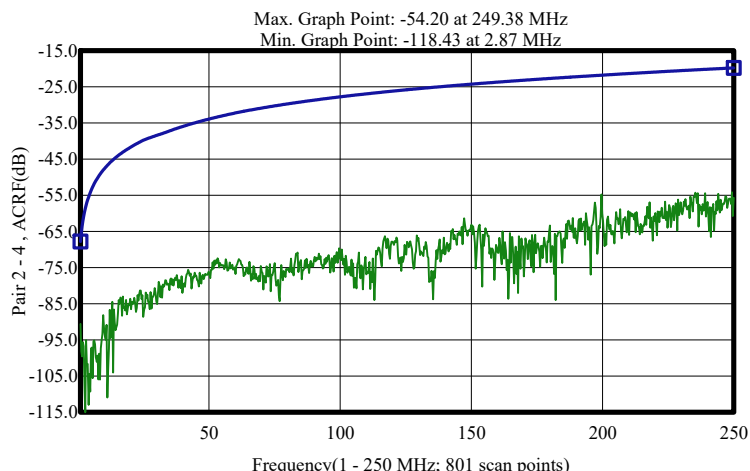
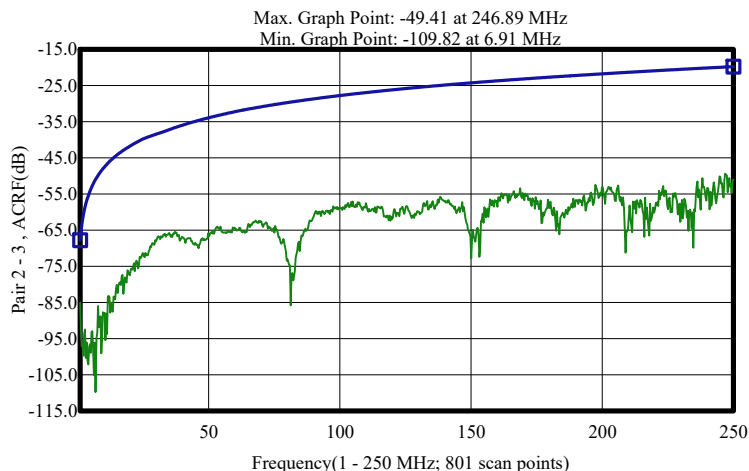
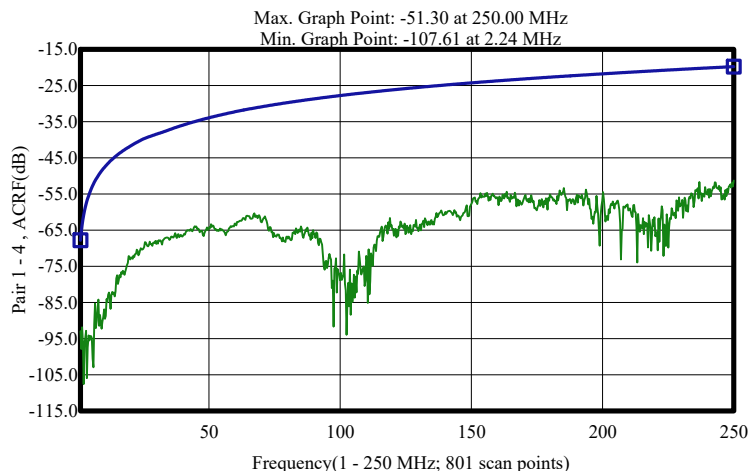
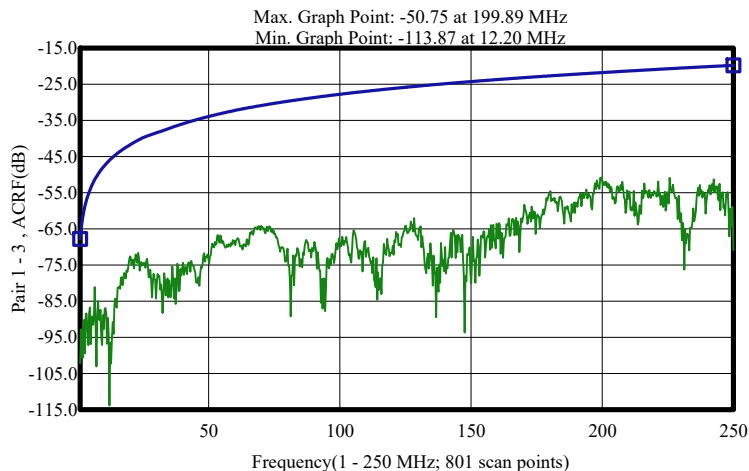
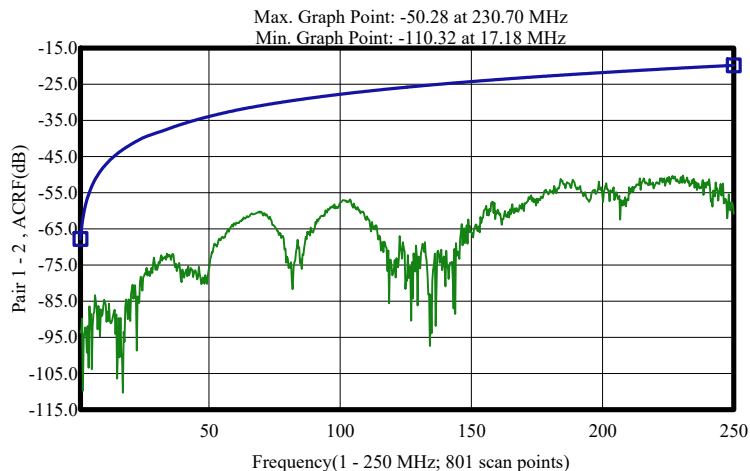
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### Summary and Graphic: ACR to FEXT Ratio (ACRF)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 - 2	67.80	93.74	25.94	1.00	Passed
Pair 1 - 3	65.45	92.84	27.39	1.31	Passed
Pair 1 - 4	67.80	92.93	25.13	1.00	Passed
Pair 2 - 3	67.80	85.01	17.21	1.00	Passed
Pair 2 - 4	67.80	90.58	22.78	1.00	Passed
Pair 3 - 4	22.05	46.62	24.57	194.29	Passed



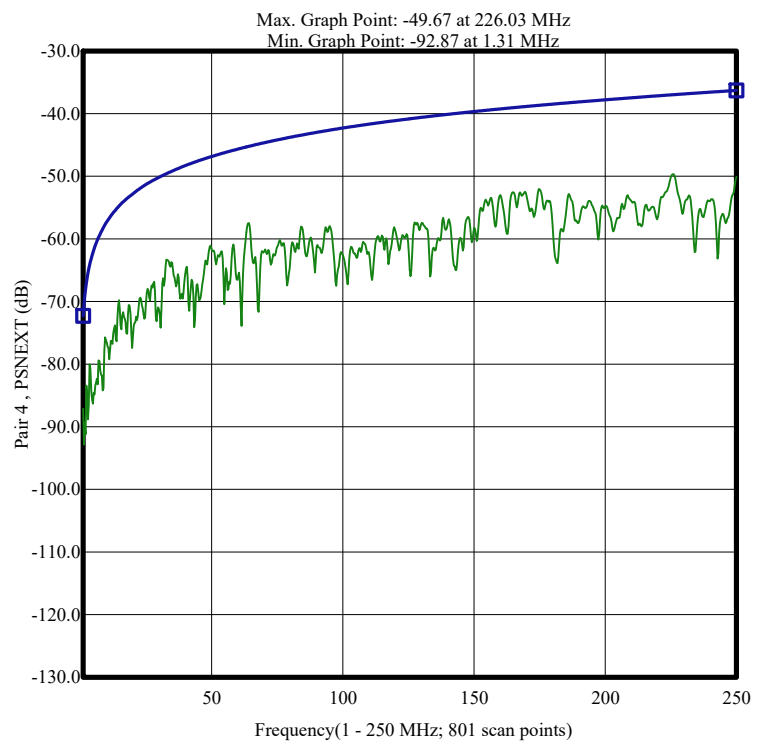
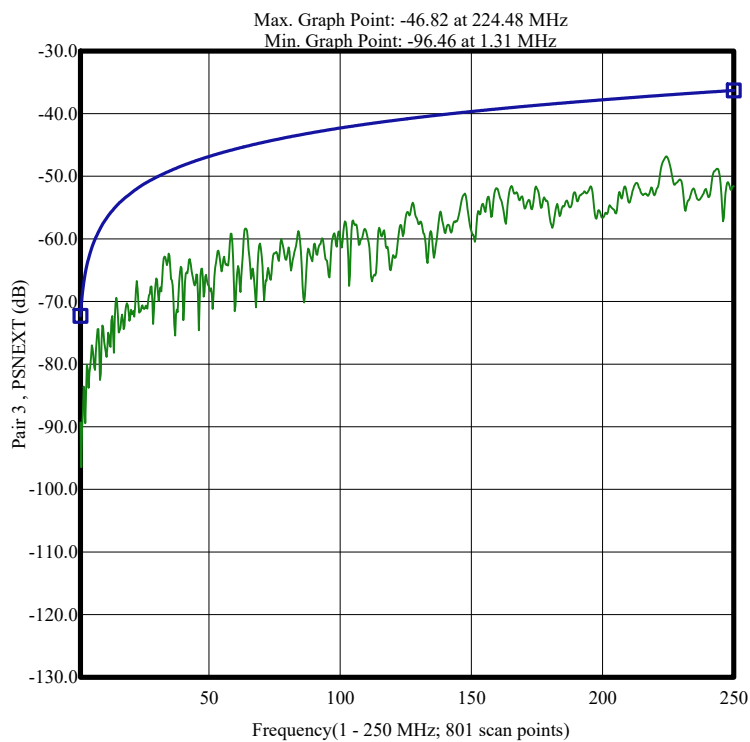
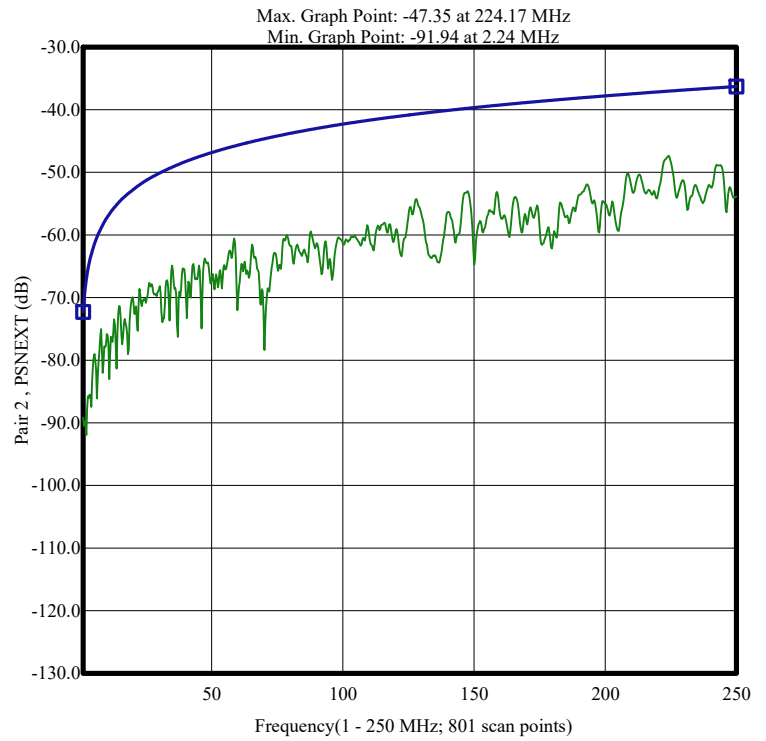
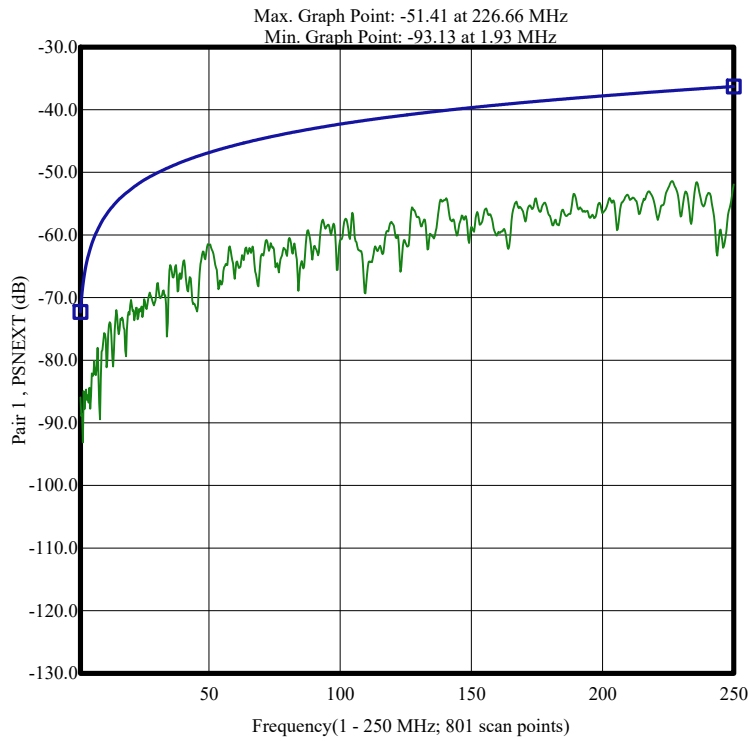
N/A = Not Applicable.  
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### Summary and Graphic: Power Sum NEXT(PSNEXT)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 [5]	72.30	85.95	13.65	1.00	Passed
Pair 2 [6]	37.03	47.35	10.32	224.17	Passed
Pair 3 [7]	37.02	46.82	9.80	224.48	Passed
Pair 4 [8]	45.22	57.49	12.27	64.18	Passed



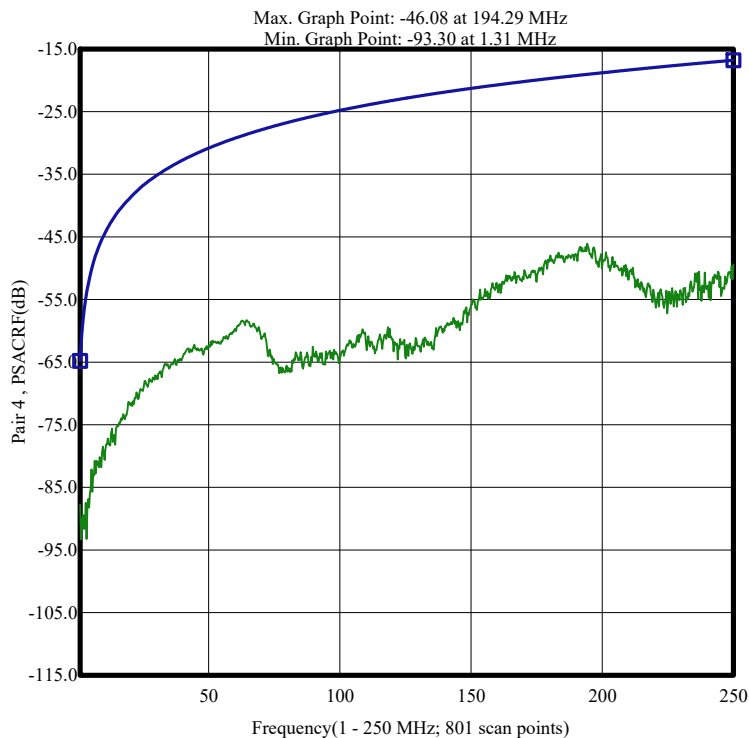
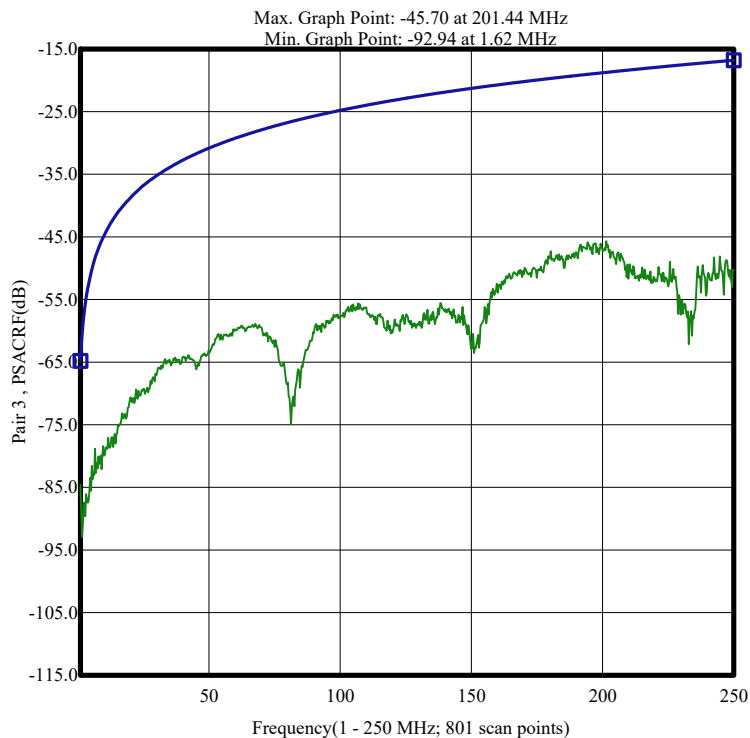
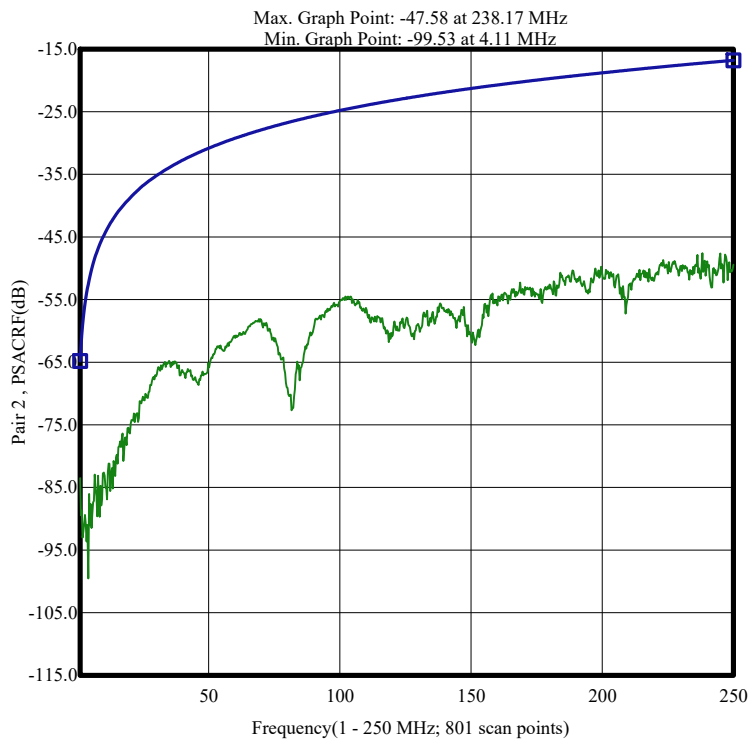
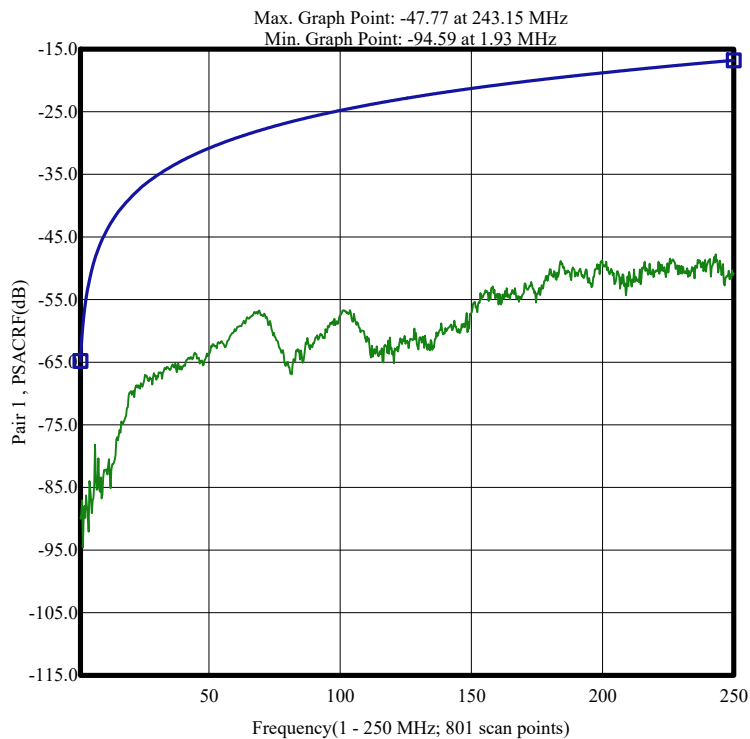
N/A = Not Applicable.  
--- = Disable/Bypassed Pair.

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xxx = No entry.

\*\*\* = 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]	64.80	90.03	25.23	1.00	Passed
Pair 2 [6]	64.80	83.51	18.71	1.00	Passed
Pair 3 [7]	64.80	84.55	19.75	1.00	Passed
Pair 4 [8]	64.80	87.77	22.97	1.00	Passed



N/A = Not Applicable.  
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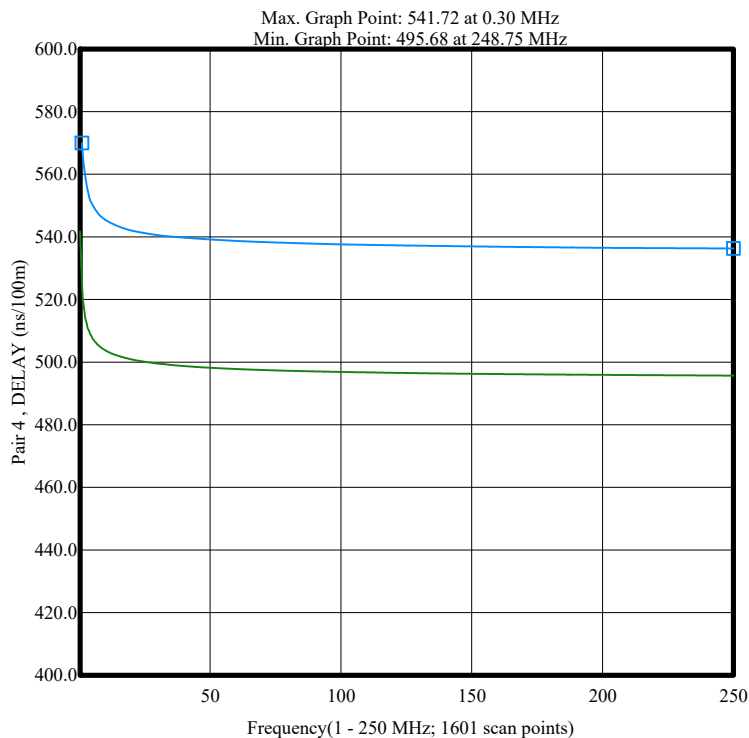
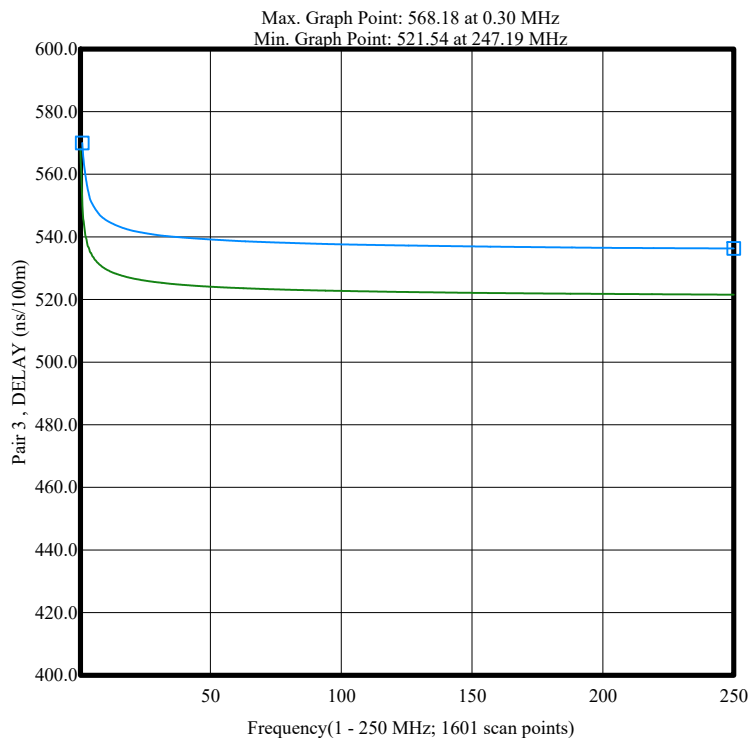
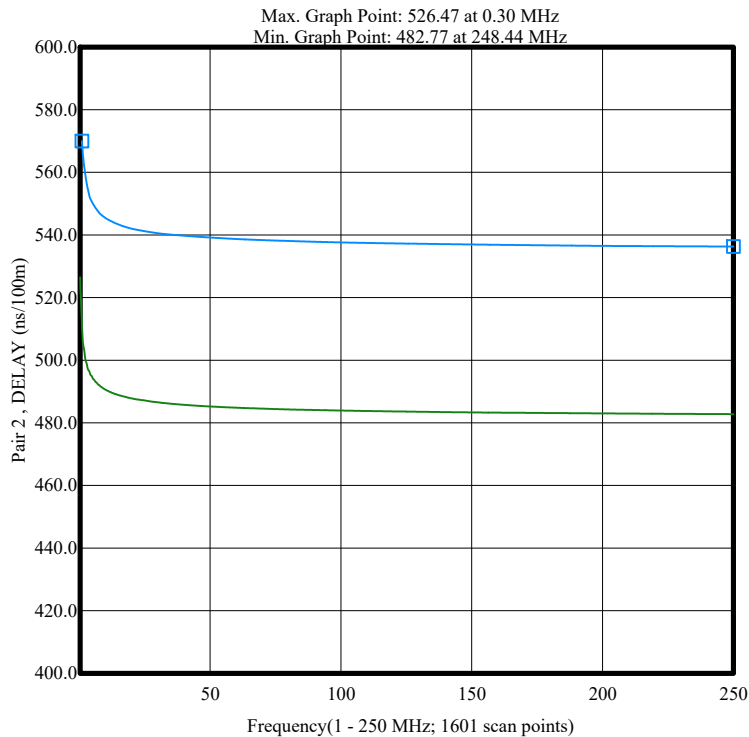
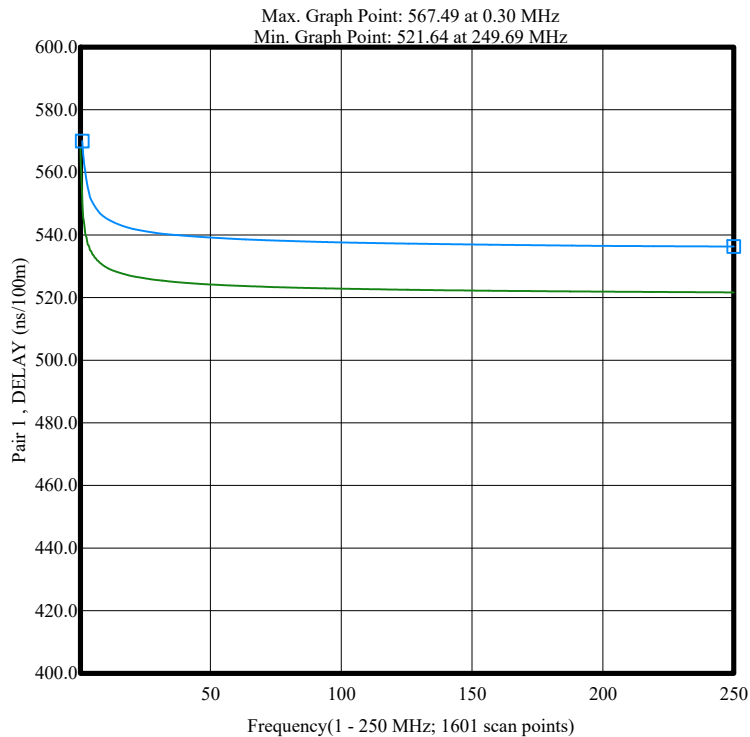
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### Summary and Graphic: Propagation Delay (DELAY)

Pair	Spec (Max)(ns/100m)	Measured(ns/100m)	Margin (ns/100m)	@ Frequency (MHz)	Test Result
Pair 1 [5]	536.50	521.90	14.60	199.44	Passed
Pair 2 [6]	536.47	482.98	53.49	205.68	Passed
Pair 3 [7]	536.49	521.78	14.71	201.15	Passed
Pair 4 [8]	536.49	495.93	40.56	201.15	Passed



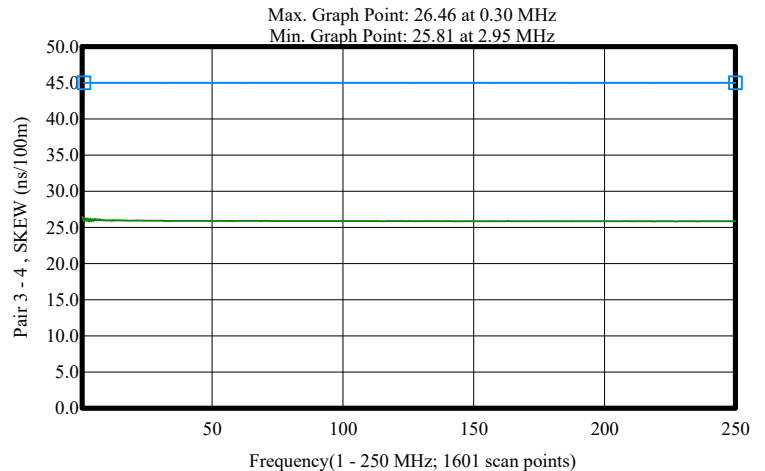
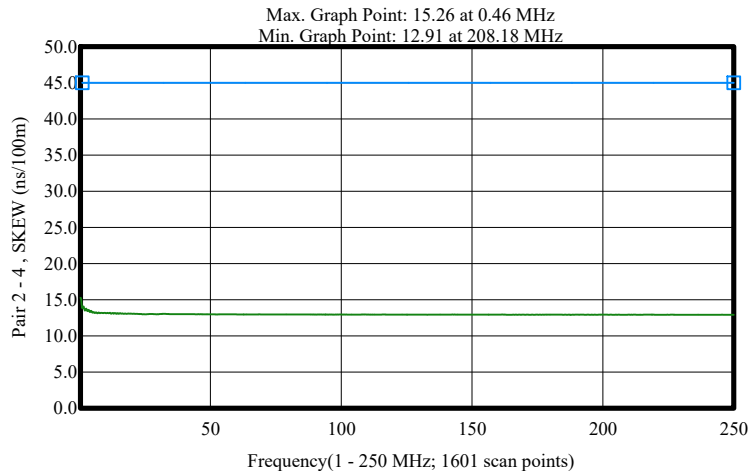
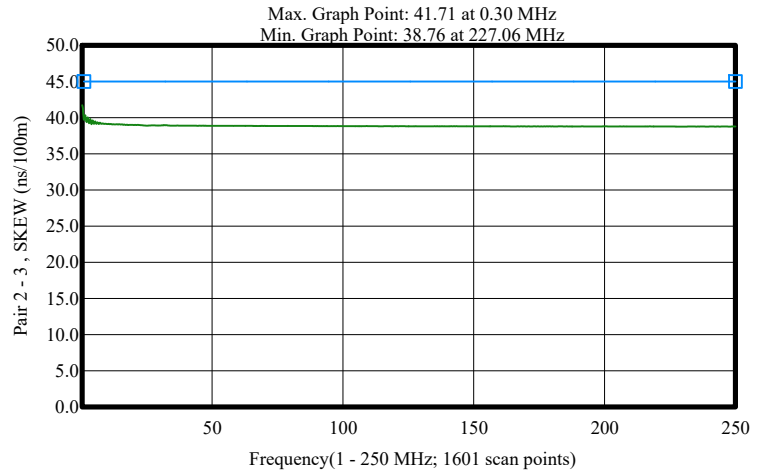
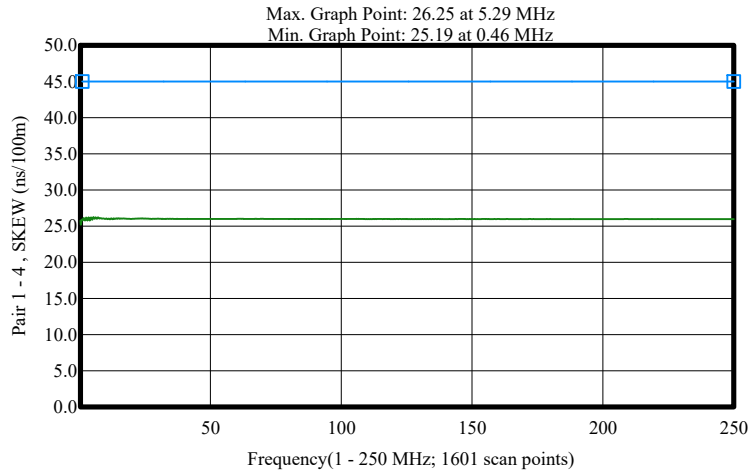
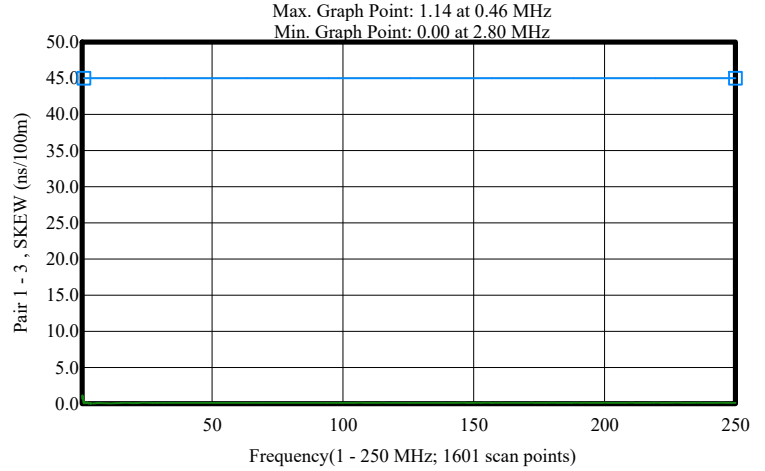
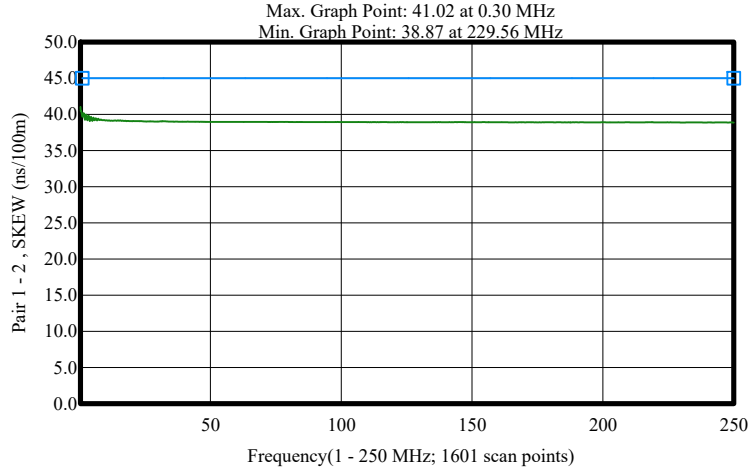
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### Summary and Graphic: Propagation Delay Skew (SKEW)

Pair	Spec (Max)(ns/100m)	Measured(ns/100m)	Margin (ns/100m)	@ Frequency (MHz)	Test Result
Pair 1 - 2	45.00	40.17	4.83	1.55	Passed
Pair 1 - 3	45.00	0.24	44.76	1.39	Passed
Pair 1 - 4	45.00	26.25	18.75	5.29	Passed
Pair 2 - 3	45.00	40.31	4.69	1.55	Passed
Pair 2 - 4	45.00	14.06	30.94	1.55	Passed
Pair 3 - 4	45.00	26.26	18.74	2.48	Passed



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