

DCM Test Report

Cable Type : 4x2x23 x ALL	Factory Number : 2019103101	Data File Name : DA952404.D3S
Cable I.D. : CAT6 LAN CABLE	Order Number : J49191123A012-100M	Specification File : SK-4CT6-396(B).S3S
Temperature : 19.00 °C	Relative Humidity : 50 %	Test Date/Time : 11/25/2019 12:29:19 PM
Length : 100.00 m	Number of Pairs to Test : 4	Operator : ZSN
Starting Position : 9		Analyzer Type : ENA

Pass - Fail Test Certificate - 4 Pairs

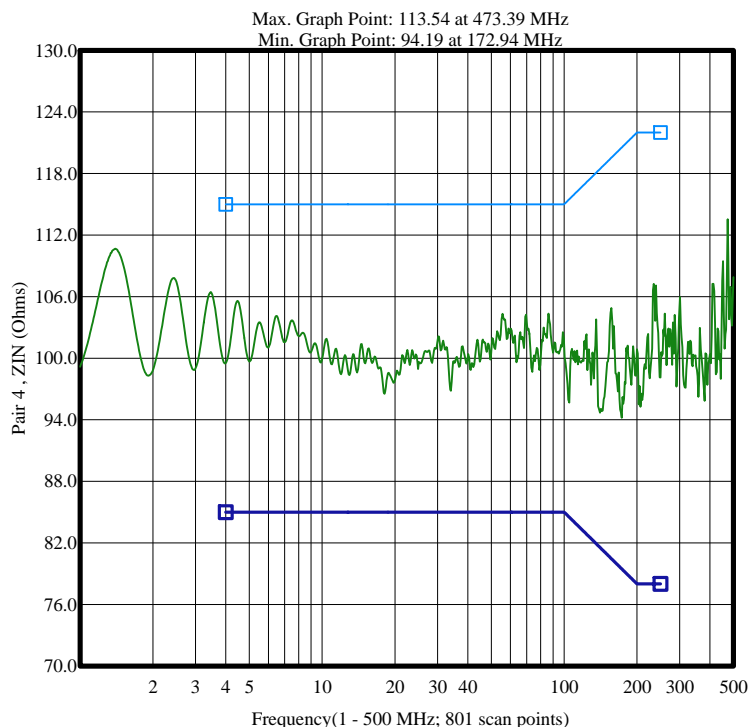
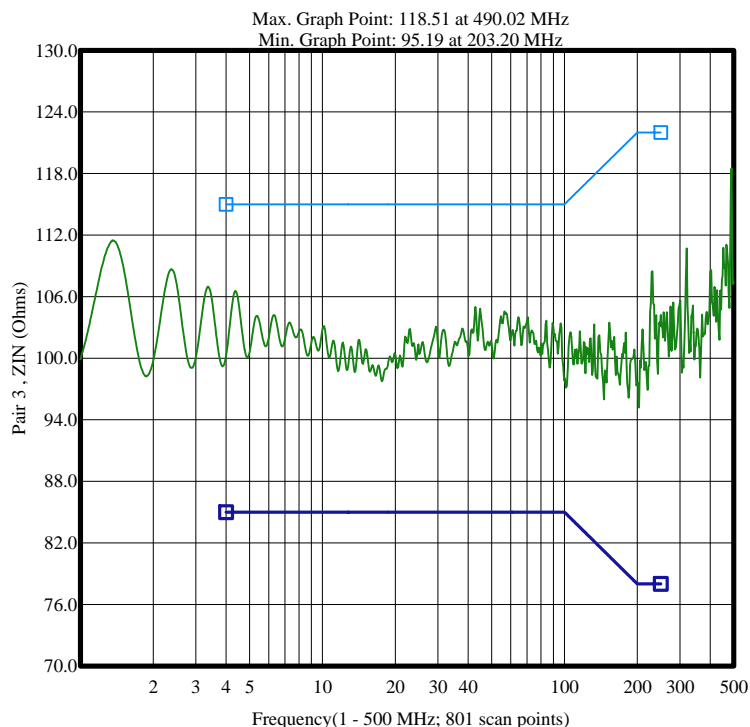
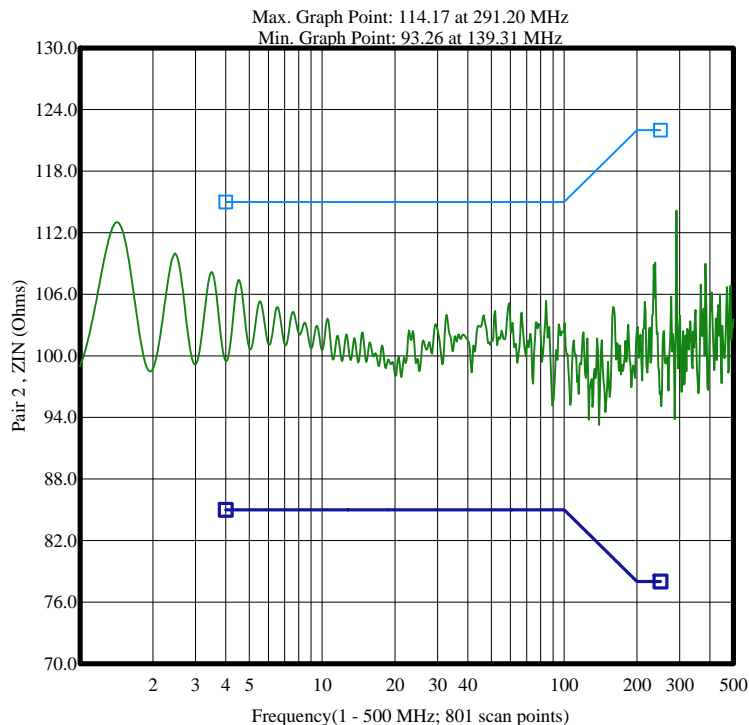
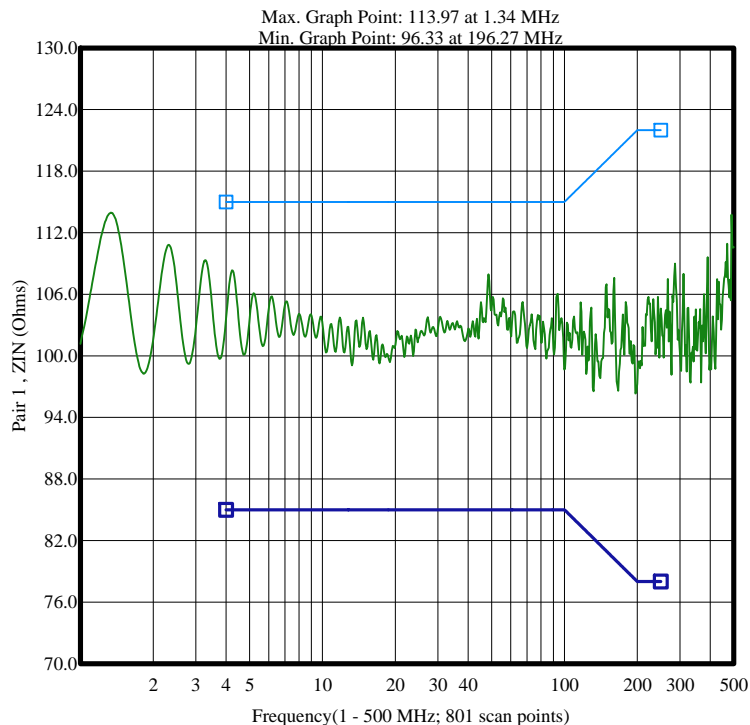
High Frequency

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:
------------	-----------	-------

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 [9]	85.00	115.00	98.66	108.34	13.66	6.66	99.62	4.23	Passed
Pair 2 [10]	85.00	115.00	95.17	107.40	10.17	7.60	89.33	4.53	Passed
Pair 3 [11]	84.86	115.00	97.12	106.56	12.26	8.44	101.41	4.36	Passed
Pair 4 [12]	84.51	115.00	95.68	105.59	11.17	9.41	104.99	4.46	Passed



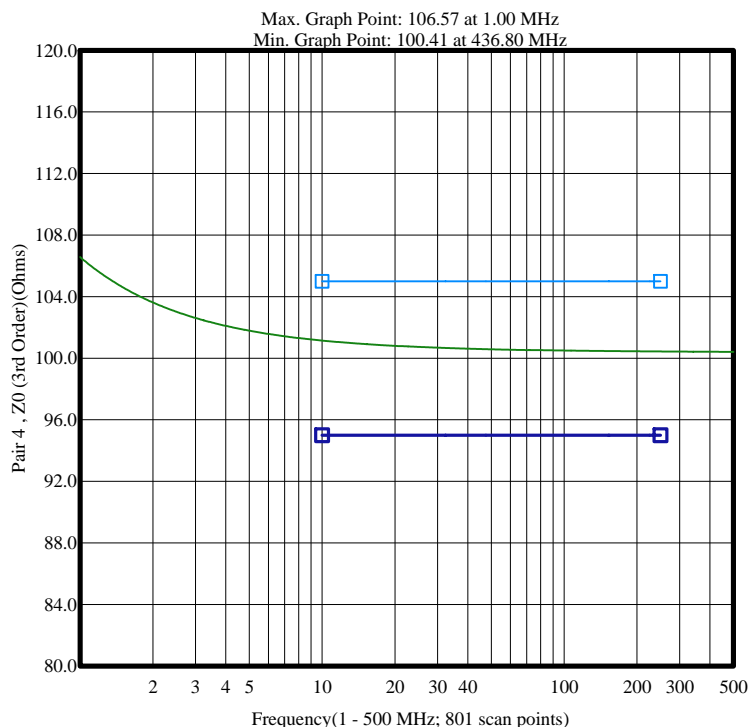
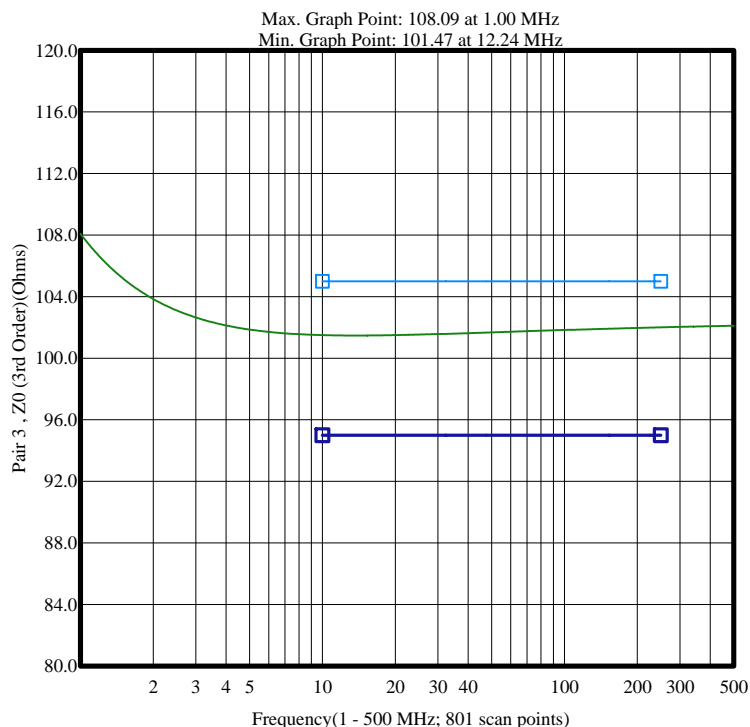
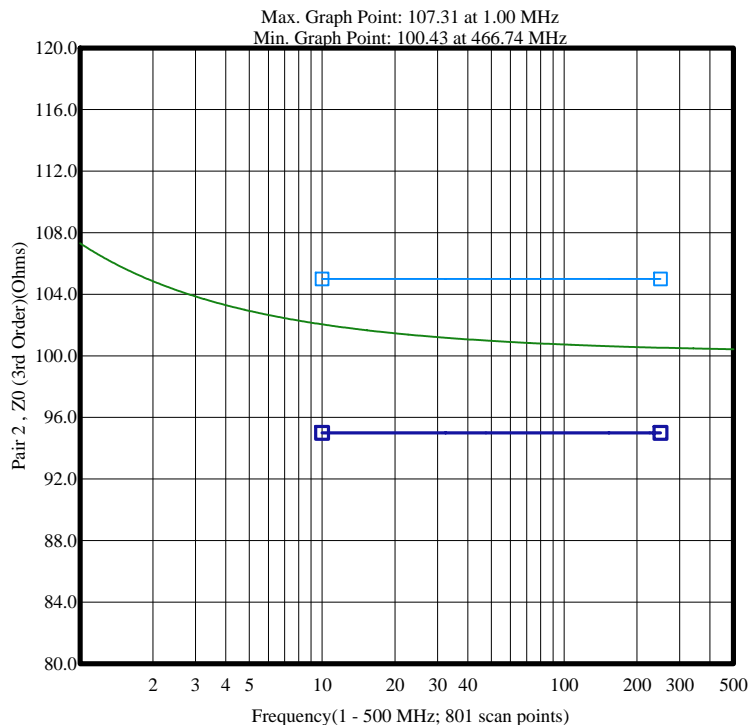
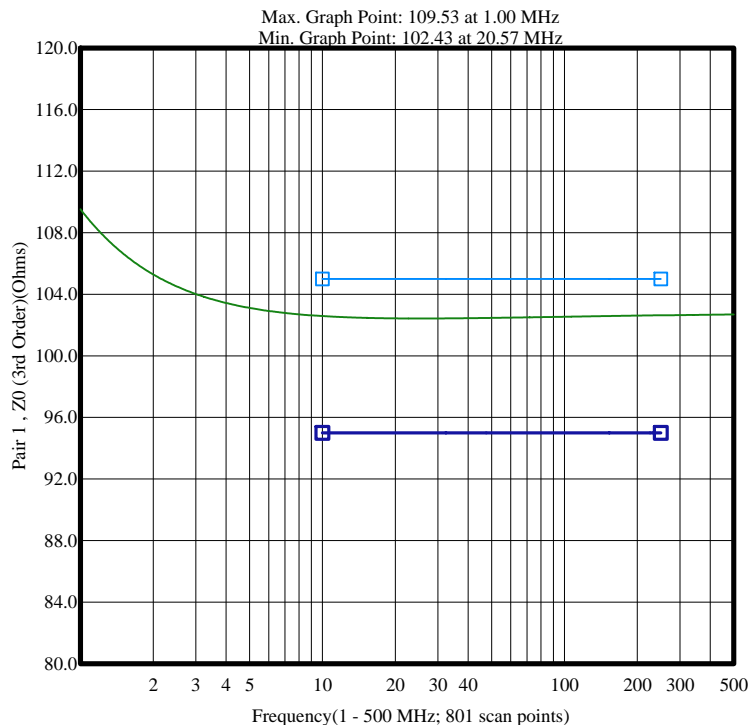
N/A = Not Applicable.
--- = Disable/Bypassed Pair.

* = 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 [9]	95.00	105.00	102.43	102.63	7.43	2.37	20.57	232.65	Passed
Pair 2 [10]	95.00	105.00	100.53	102.04	5.53	2.96	241.31	10.07	Passed
Pair 3 [11]	95.00	105.00	101.47	102.00	6.47	3.00	12.24	237.84	Passed
Pair 4 [12]	95.00	105.00	100.44	101.14	5.44	3.86	206.67	10.07	Passed



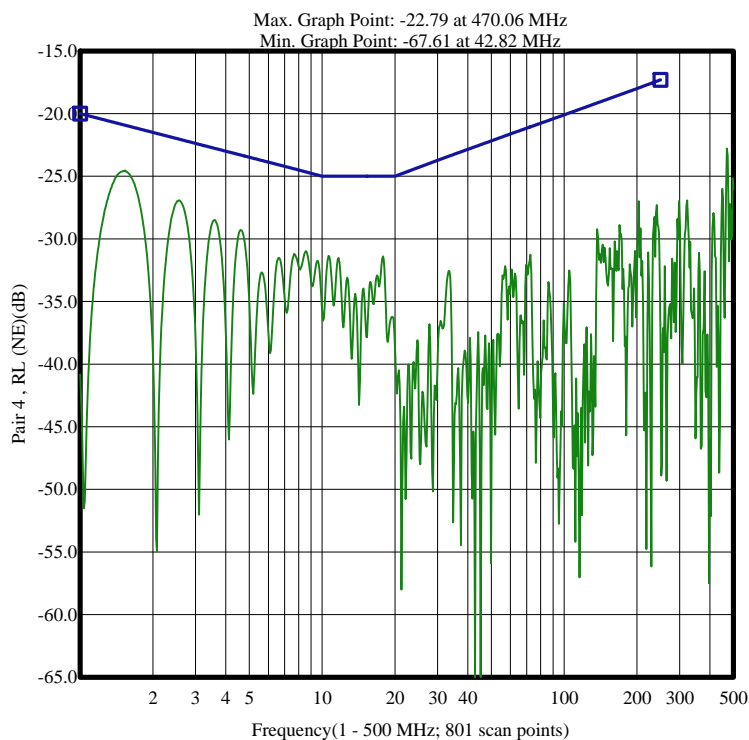
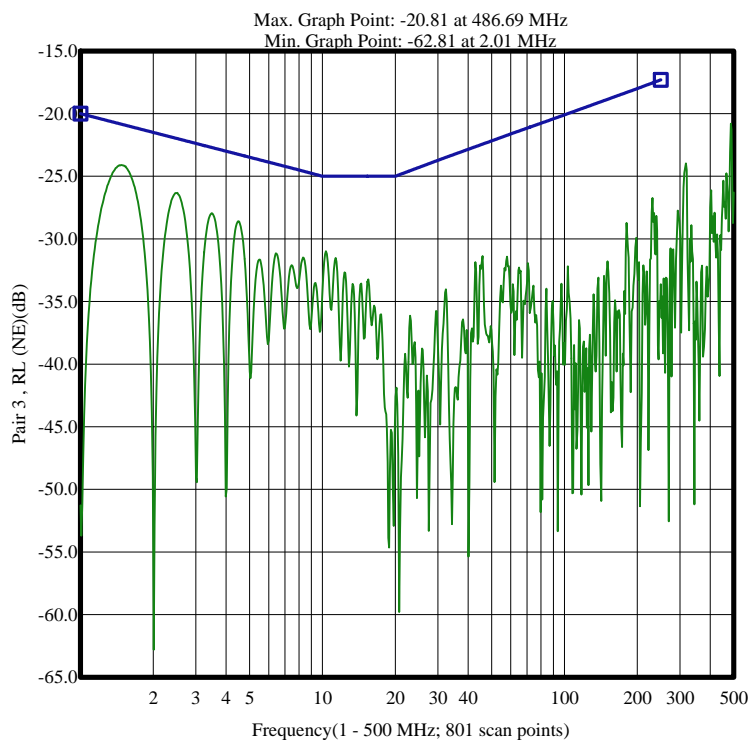
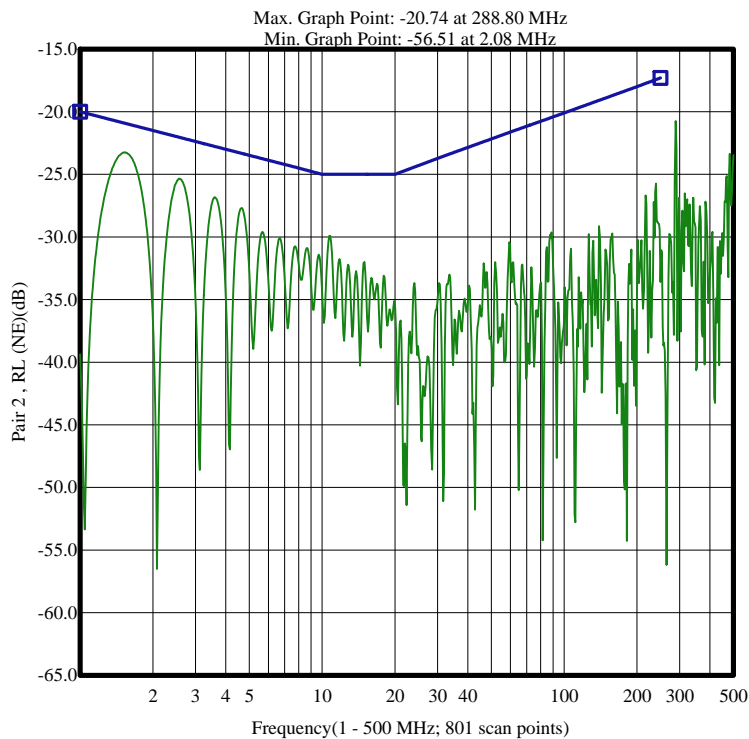
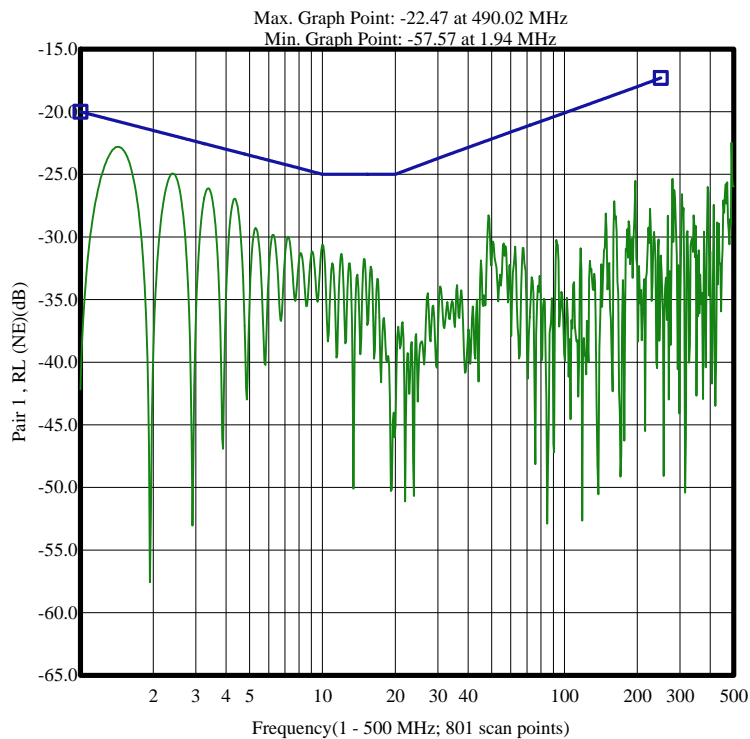
N/A = Not Applicable.
--- = Disable/Bypassed Pair.

* = 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 [9]	20.80	22.81	2.01	1.45	Passed
Pair 2 [10]	20.93	23.23	2.30	1.54	Passed
Pair 3 [11]	20.90	24.14	3.24	1.51	Passed
Pair 4 [12]	20.93	24.54	3.61	1.54	Passed



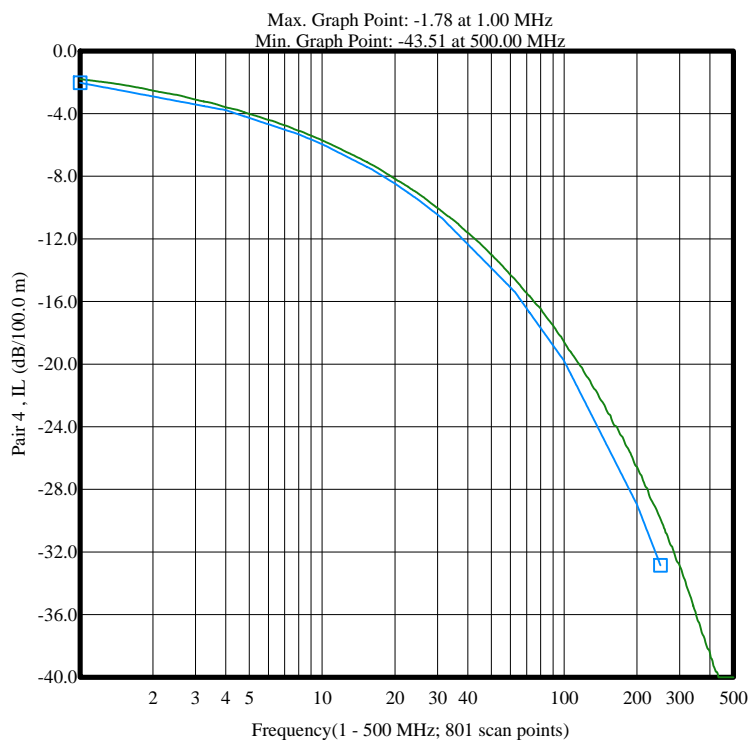
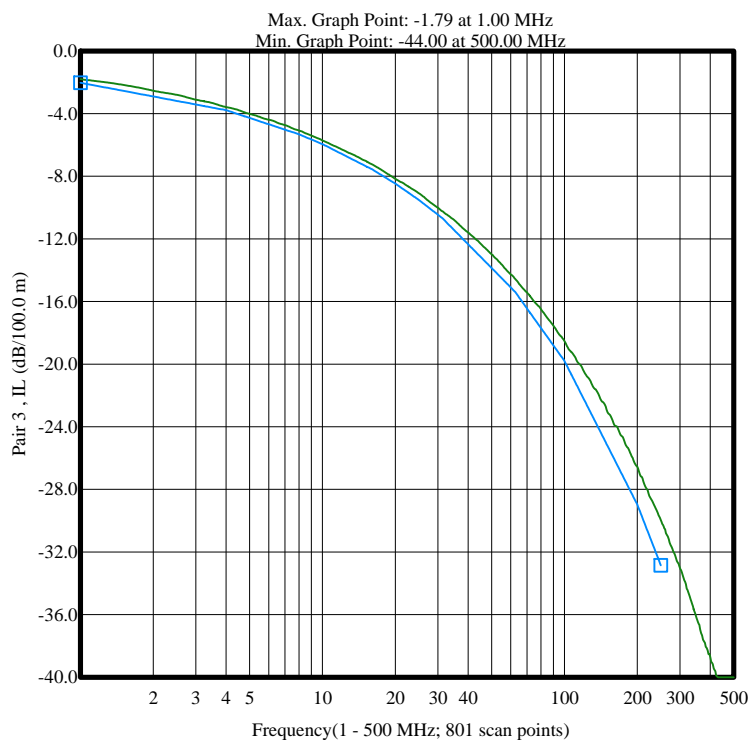
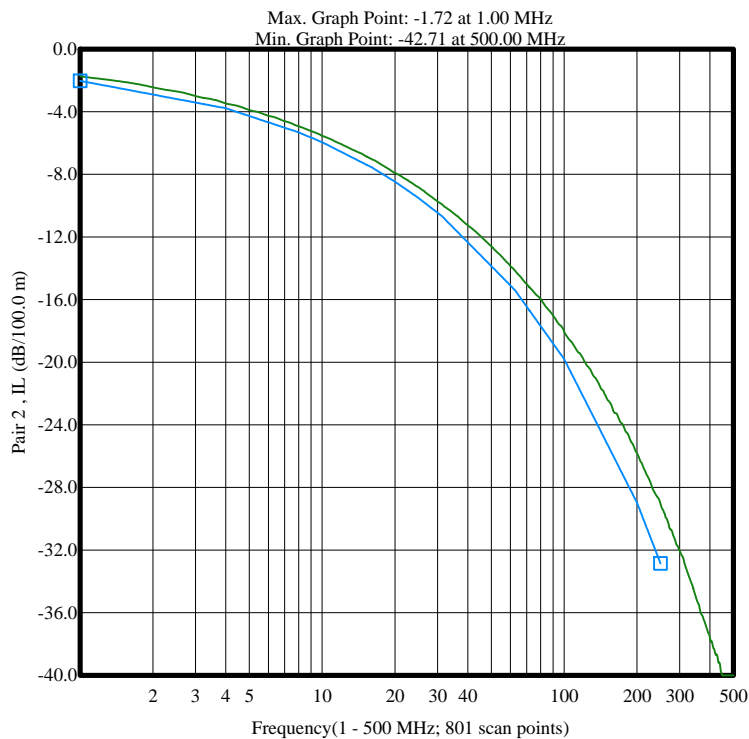
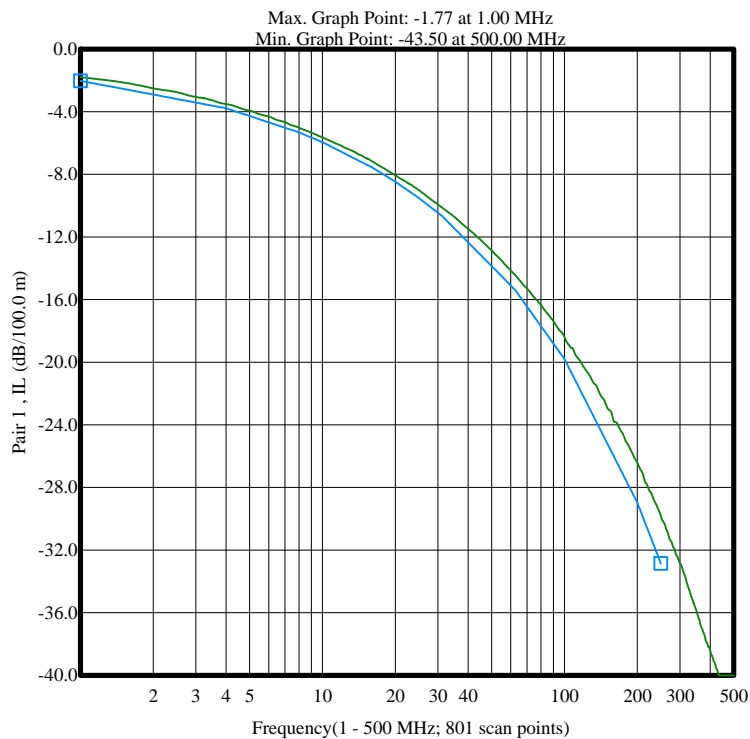
N/A = Not Applicable.
--- = Disable/Bypassed Pair.

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

*** = Measured value is invalid.

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 [9]	2.04	1.79	0.25	1.01	Passed
Pair 2 [10]	2.04	1.74	0.30	1.01	Passed
Pair 3 [11]	3.74	3.54	0.20	3.89	Passed
Pair 4 [12]	3.78	3.59	0.19	3.99	Passed



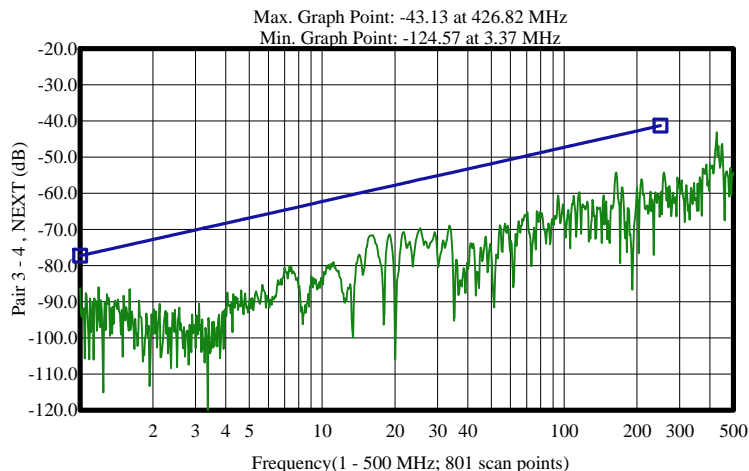
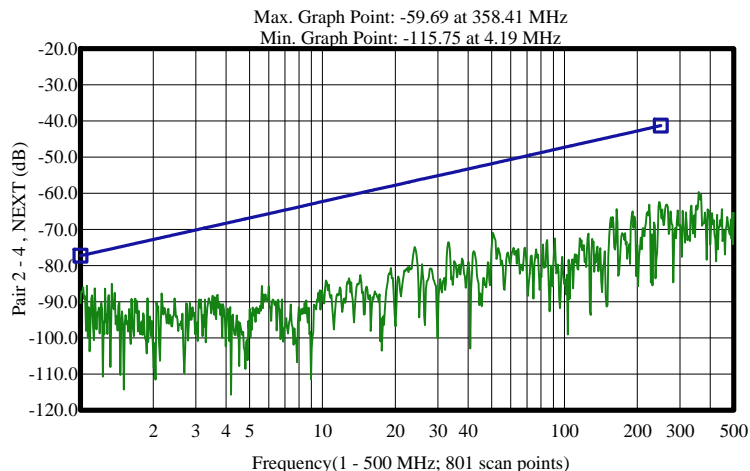
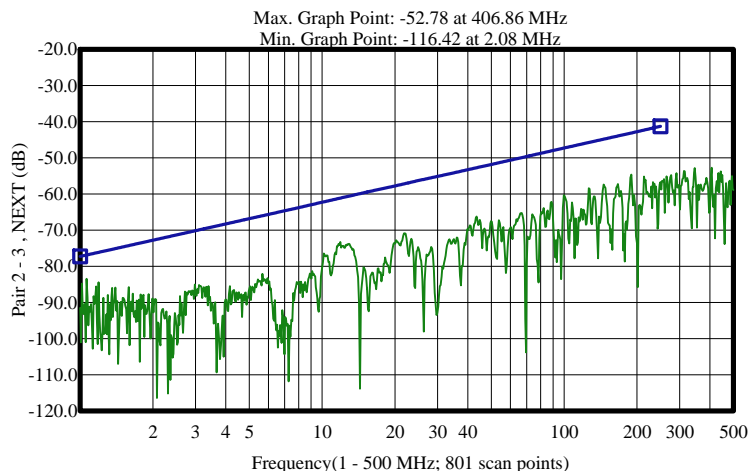
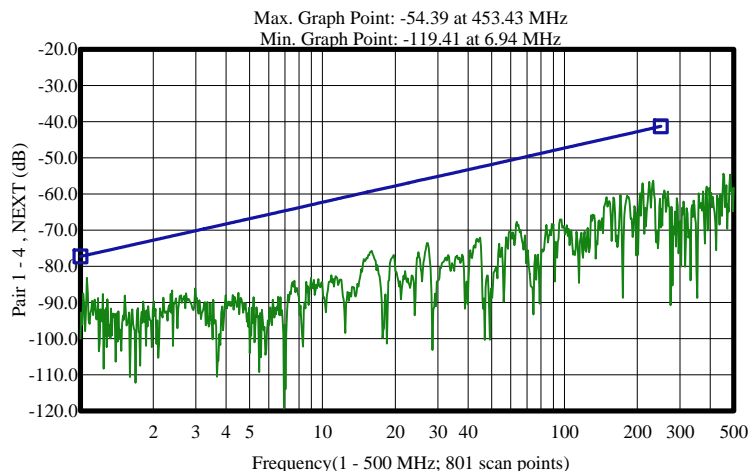
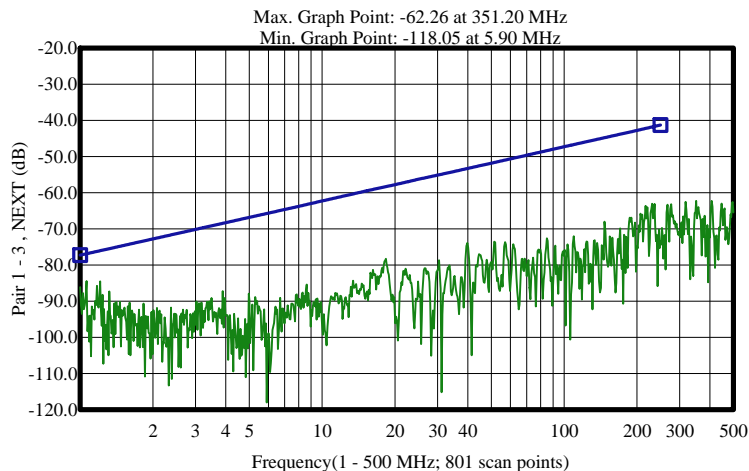
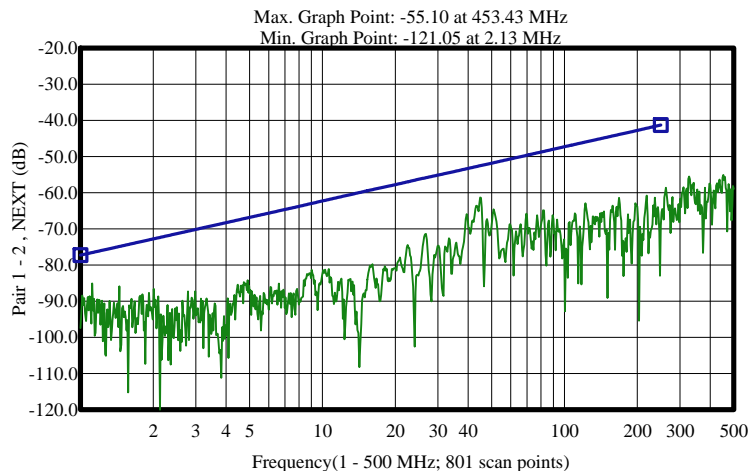
N/A = Not Applicable.
--- = Disable/Bypassed Pair.

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

*** = Measured value is invalid.

Summary and Graphic: Near End Crosstalk Loss (NEXT)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 - 2	76.57	85.12	8.55	1.12	Passed
Pair 1 - 3	76.90	84.43	7.53	1.06	Passed
Pair 1 - 4	76.90	83.22	6.32	1.06	Passed
Pair 2 - 3	76.90	83.49	6.59	1.06	Passed
Pair 2 - 4	76.90	85.58	8.68	1.06	Passed
Pair 3 - 4	77.30	86.24	8.94	1.00	Passed



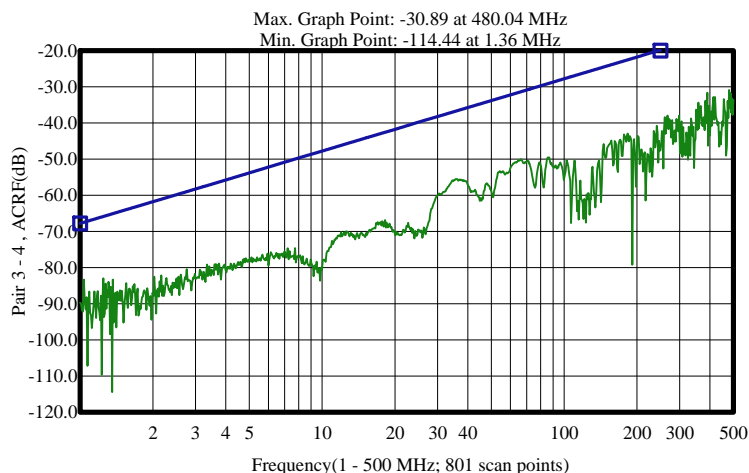
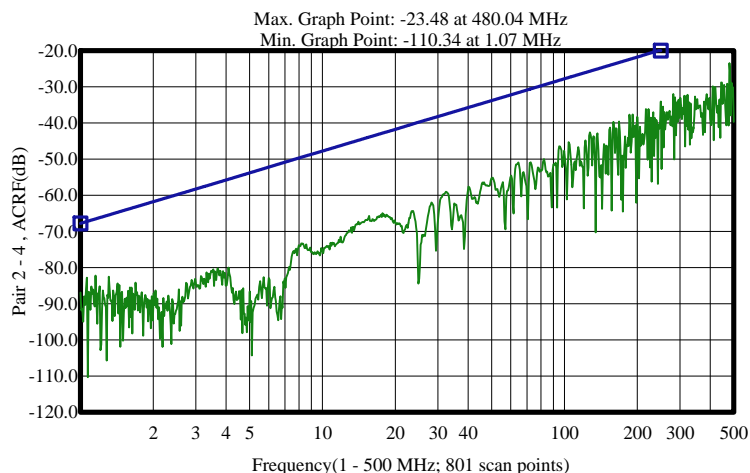
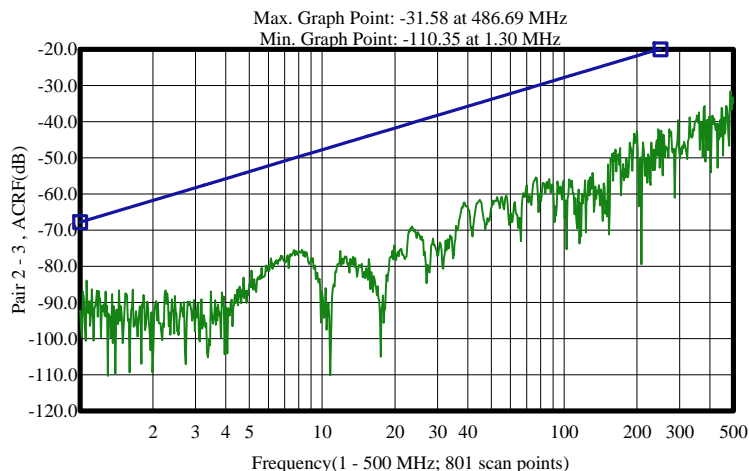
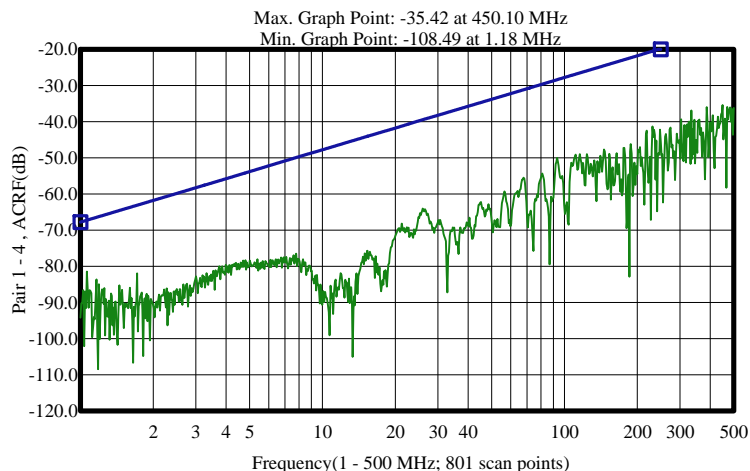
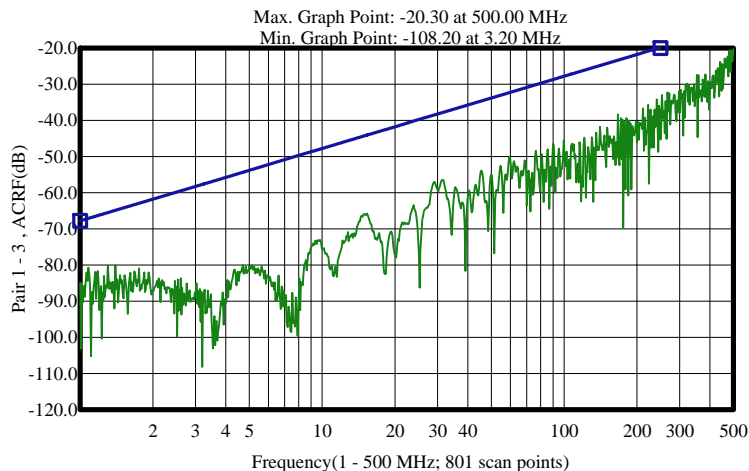
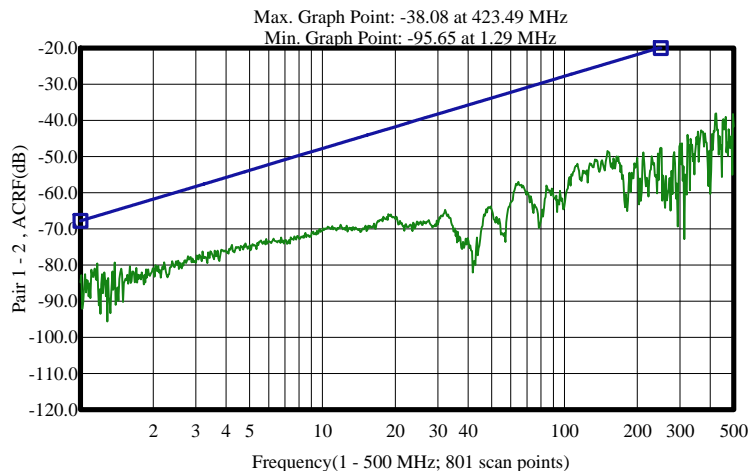
N/A = Not Applicable.
-- = Disable/Bypassed Pair.

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

*** = Measured value is invalid.

Summary and Graphic: ACR to FEXT Ratio (ACRF)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 - 2	66.41	79.58	13.17	1.17	Passed
Pair 1 - 3	67.12	80.73	13.61	1.08	Passed
Pair 1 - 4	67.26	81.50	14.24	1.06	Passed
Pair 2 - 3	67.26	83.94	16.68	1.06	Passed
Pair 2 - 4	19.80	34.11	14.31	249.97	Passed
Pair 3 - 4	67.49	83.32	15.83	1.04	Passed



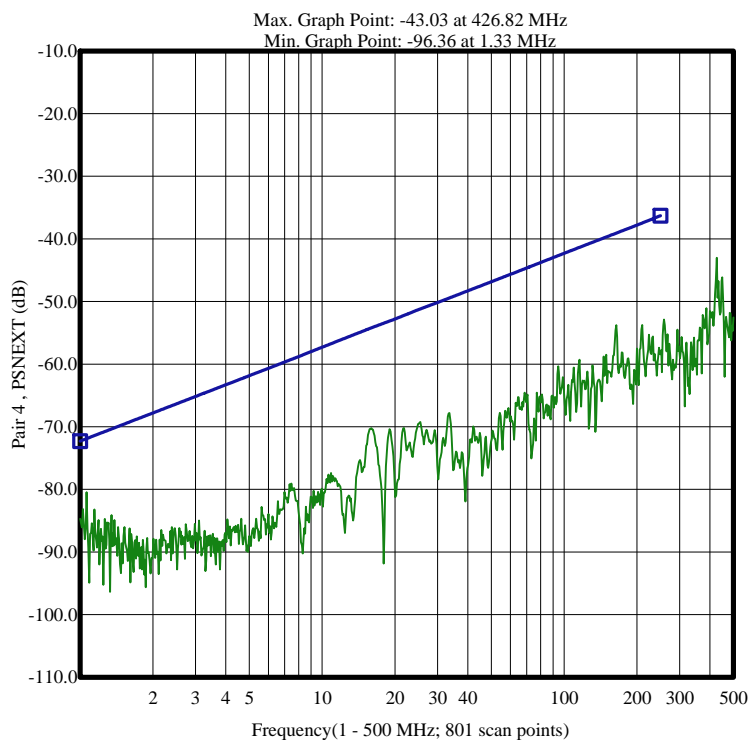
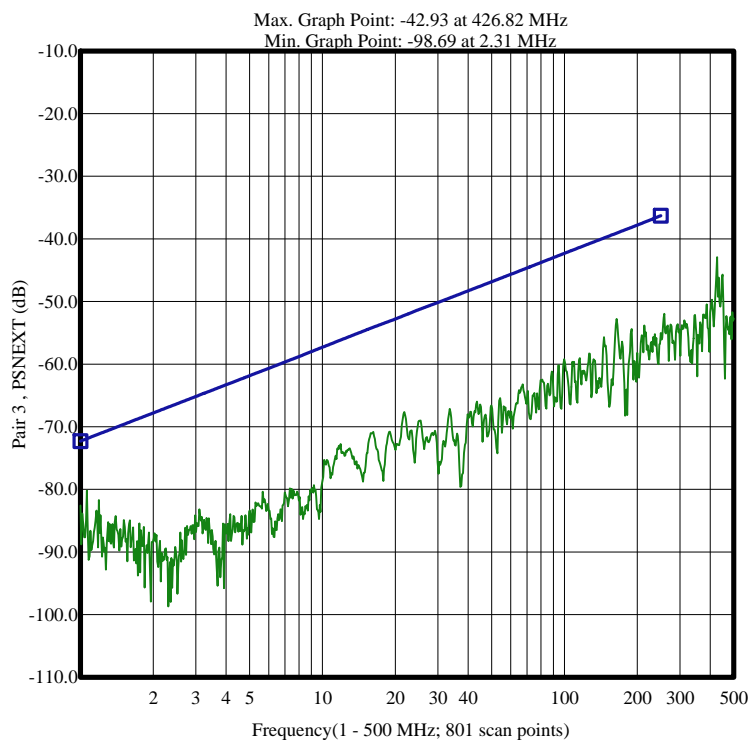
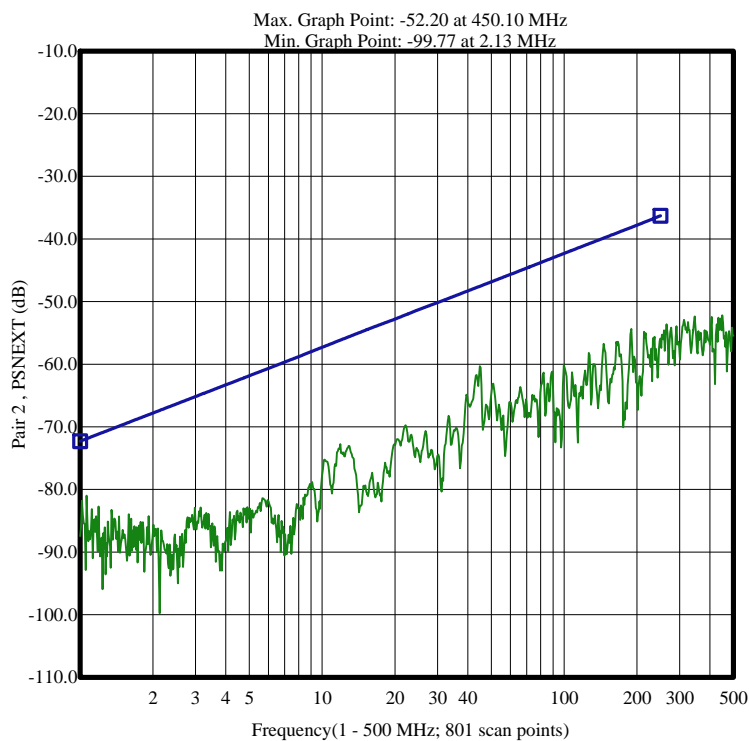
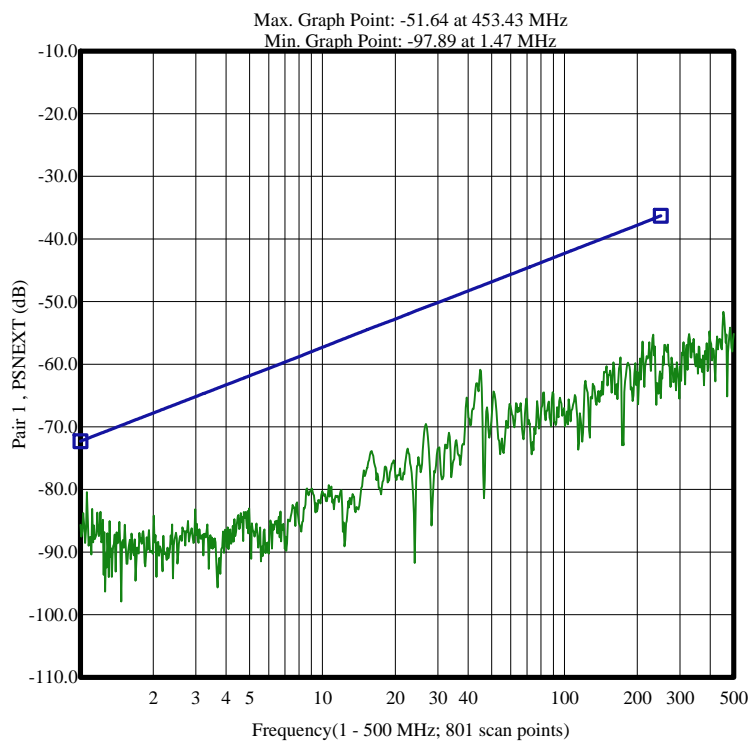
N/A = Not Applicable.
--- = Disable/Bypassed Pair.

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

*** = Measured value is invalid.

Summary and Graphic: Power Sum NEXT(PSNEXT)

Pair	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 [9]	71.90	80.42	8.52	1.06	Passed
Pair 2 [10]	71.90	80.99	9.09	1.06	Passed
Pair 3 [11]	71.90	80.19	8.29	1.06	Passed
Pair 4 [12]	71.90	80.45	8.55	1.06	Passed



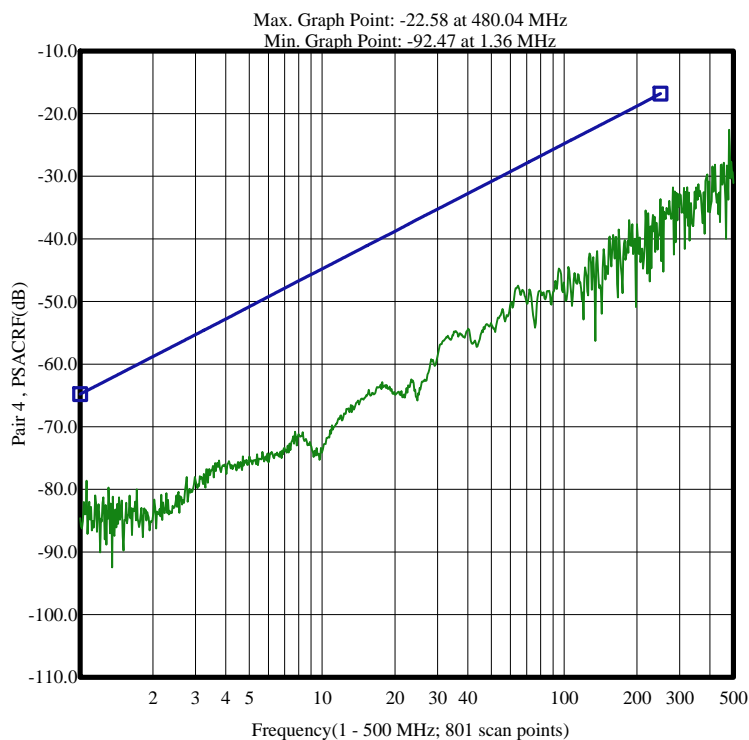
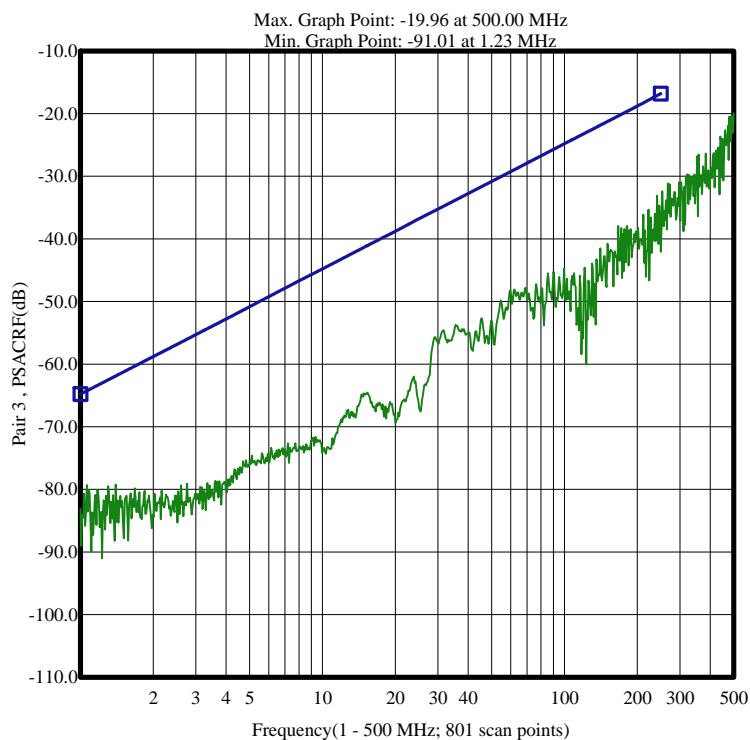
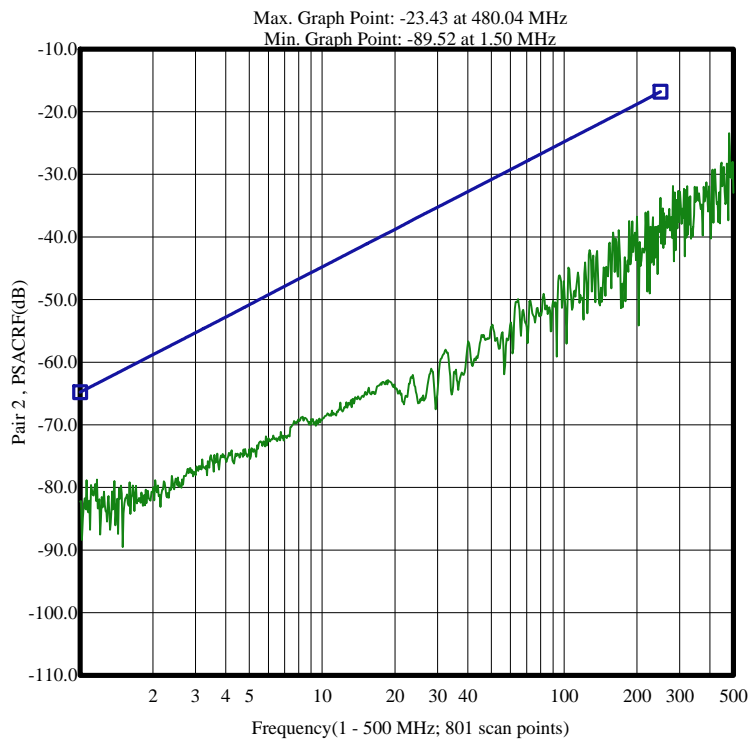
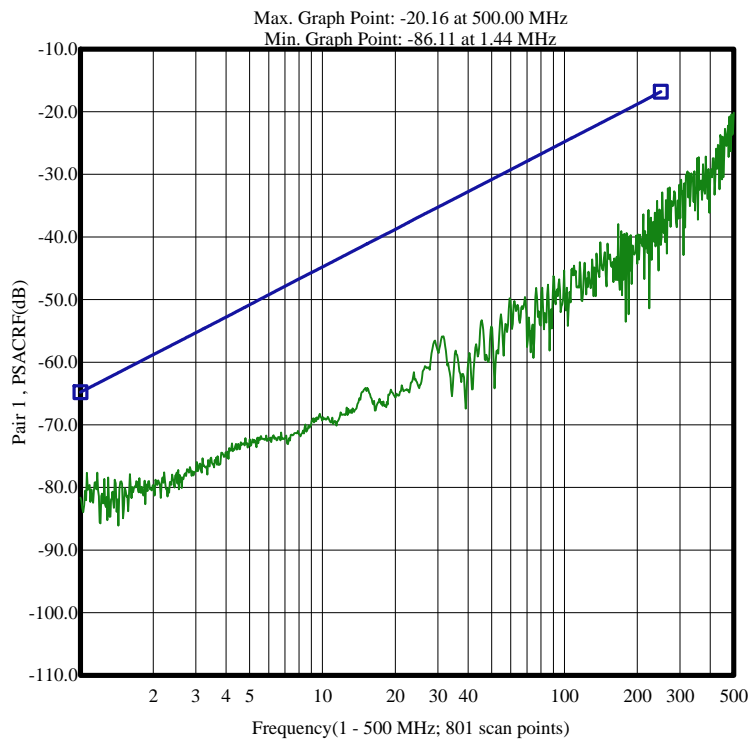
N/A = Not Applicable.
--- = Disable/Bypassed Pair.

* = Measured value out of spec.
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 [9]	64.26	77.67	13.41	1.06	Passed
Pair 2 [10]	64.26	78.84	14.58	1.06	Passed
Pair 3 [11]	64.26	79.30	15.04	1.06	Passed
Pair 4 [12]	64.26	78.60	14.34	1.06	Passed



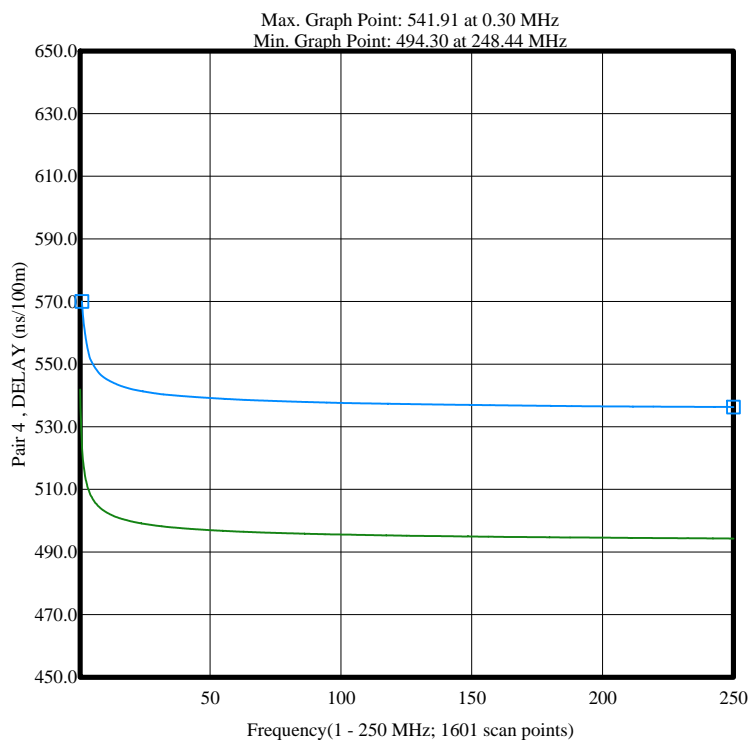
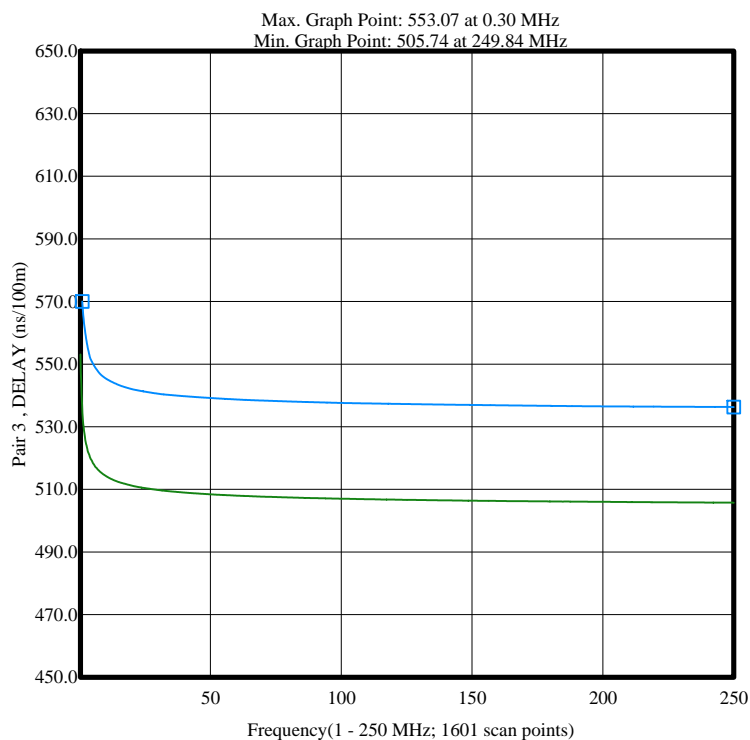
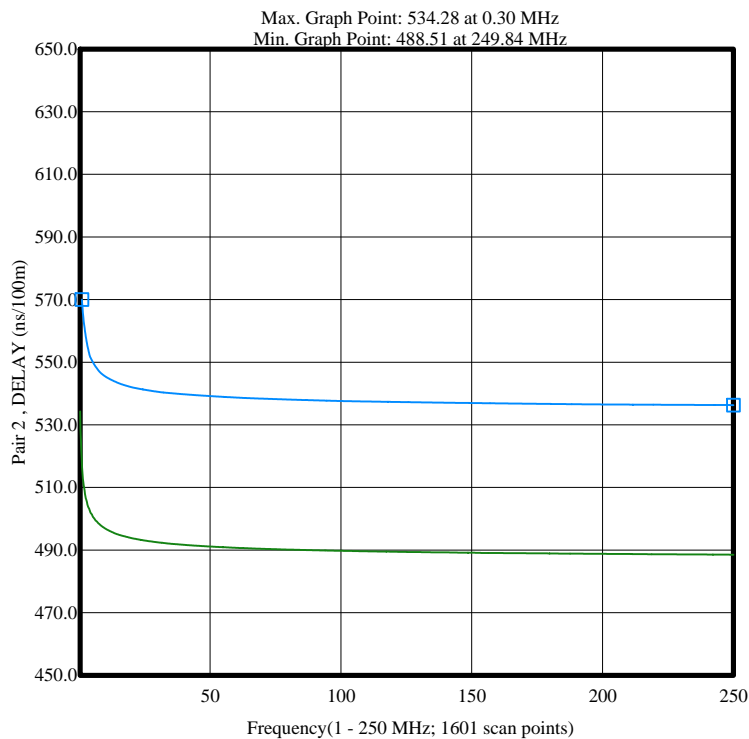
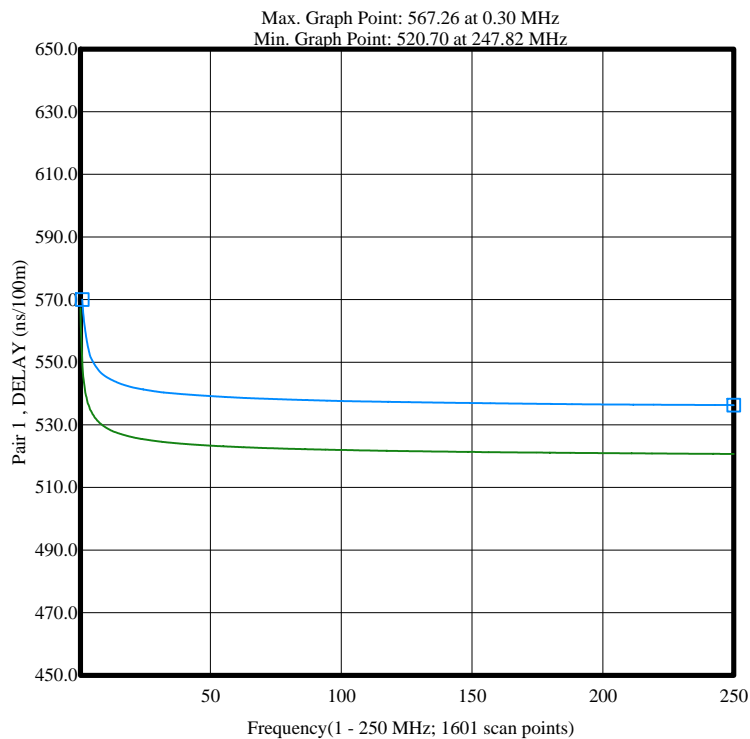
N/A = Not Applicable.
--- = Disable/Bypassed Pair.

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

*** = Measured value is invalid.

Summary and Graphic: Propagation Delay (DELAY)

Pair	Spec (Max)(ns/100m)	Measured(ns/100m)	Margin (ns/100m)	@ Frequency (MHz)	Test Result
Pair 1 [9]	536.47	520.94	15.53	205.68	Passed
Pair 2 [10]	536.49	488.79	47.70	201.15	Passed
Pair 3 [11]	536.49	506.01	30.48	201.15	Passed
Pair 4 [12]	536.49	494.57	41.92	201.15	Passed



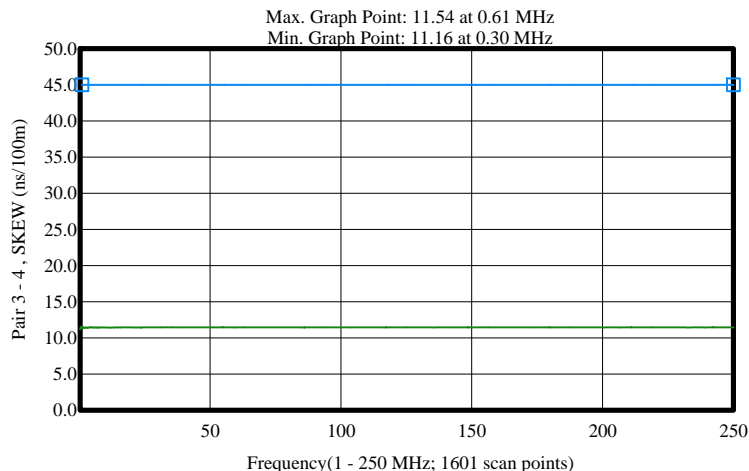
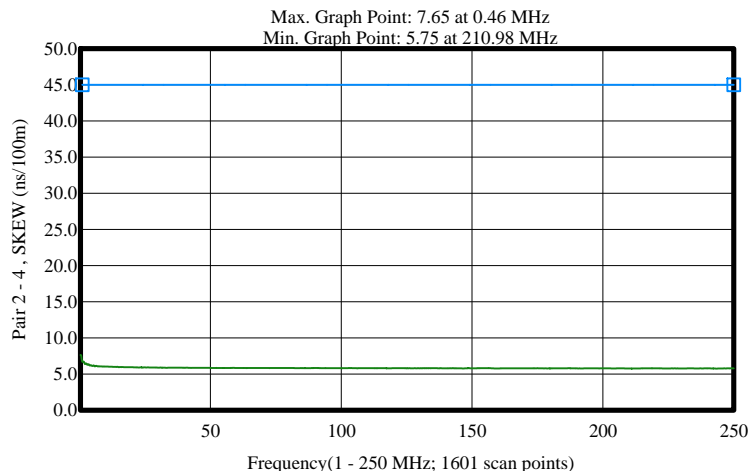
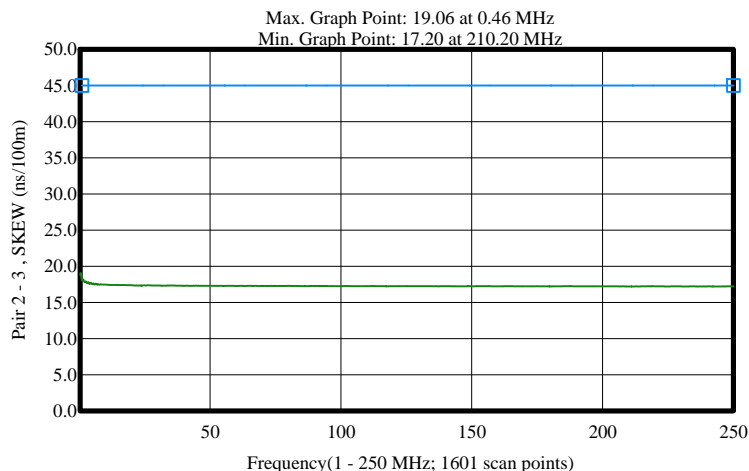
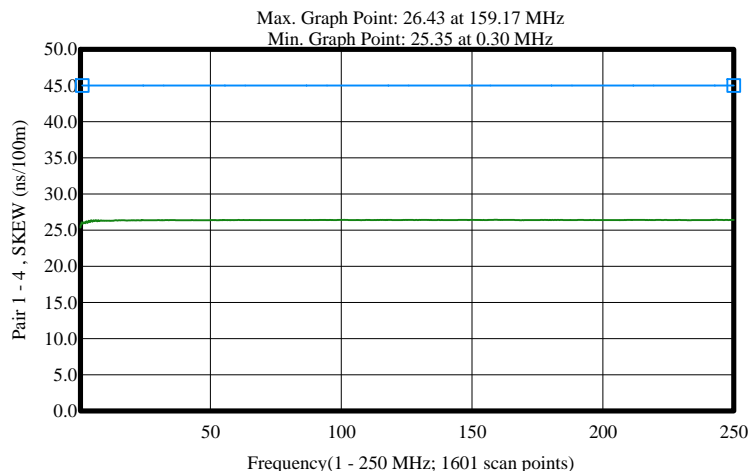
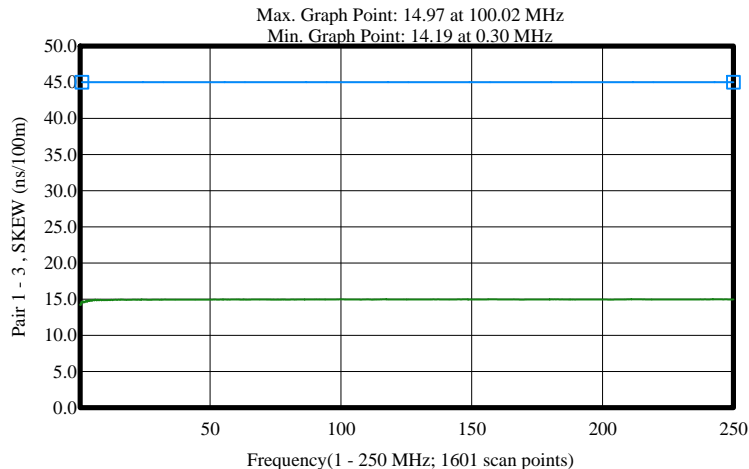
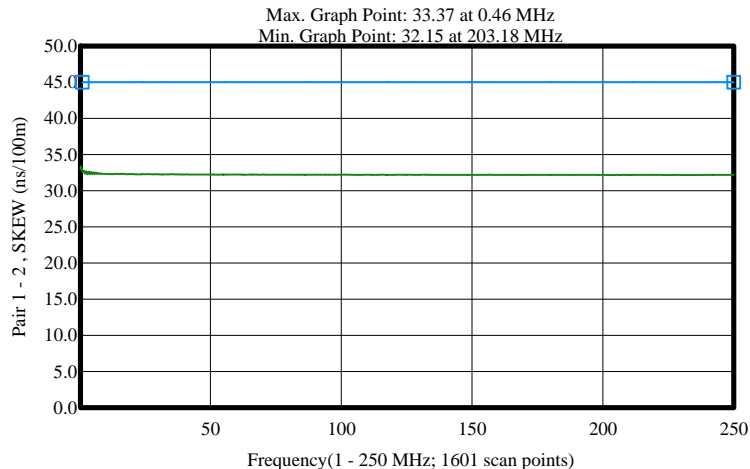
N/A = Not Applicable.
--- = Disable/Bypassed Pair.

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

*** = Measured value is invalid.

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	32.76	12.24	1.70	Passed
Pair 1 - 3	45.00	14.97	30.03	100.02	Passed
Pair 1 - 4	45.00	26.43	18.57	159.17	Passed
Pair 2 - 3	45.00	18.18	26.82	1.39	Passed
Pair 2 - 4	45.00	6.73	38.27	1.39	Passed
Pair 3 - 4	45.00	11.52	33.48	4.51	Passed



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

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

*** = Measured value is invalid.