



WIAN CAT6A U-UTP18

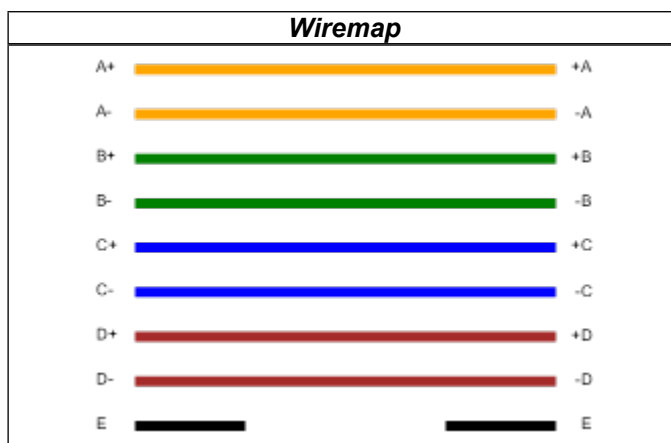


Pass

Project : WIAN
Test Facility : Lab
DUT : Cable 4P
Cable : CAT6A(NVP : 78.00)
Cable Pairs : 4
Connector :
Test Fixture : PYRAMID
Operator : CTS
Temperature : 25 DegC

Test Limit : Channel ANSI TIA-568.2-D.csv
Test Configuration : Category 6A Channel ANSI TIA-568.2-D-2018.vcfg
Tester : MMVNAPro
Serial No. : 5200-1898
Software Version : 5.3.314
Calibration Set : SMACAL_BARE
Test Time : 5/31/2025 5:49:35 PM

Main



Port	Length (m)		Delay (ns)		Delay Skew (ns)		DC Res(Ohms)	
Limit	135		545		45		18.76	
A+	105.886		452.816		0		8.227	
A-	105.915		452.943		0.127		8.226	
B+	108.766		465.136		12.32		8.388	
B-	108.77		465.152		12.336		8.405	
C+	111.677		477.583		24.767		8.535	
C-	111.732		477.818		25.003		8.565	
D+	106.204		454.179		1.364		8.319	
D-	106.186		454.101		1.285		8.31	

Summary Table

Plot	Result	Series	Unit	Value	Limit	Worst Margin	Freq (MHz)
Insertion Loss		IL-C	dB	-2.6	-3.2	0.6	2.25
Return Loss (Near End)		SDD(LB,LB) - Main	dB	-21.8	-19	2.8	1.38
Return Loss (Far End)		SDD(RB,RB) - Main	dB	-21.8	-19	2.8	1.38
NEXT (Near End)		NEXT-BD	dB	-60.8	-49.1	11.7	28.5



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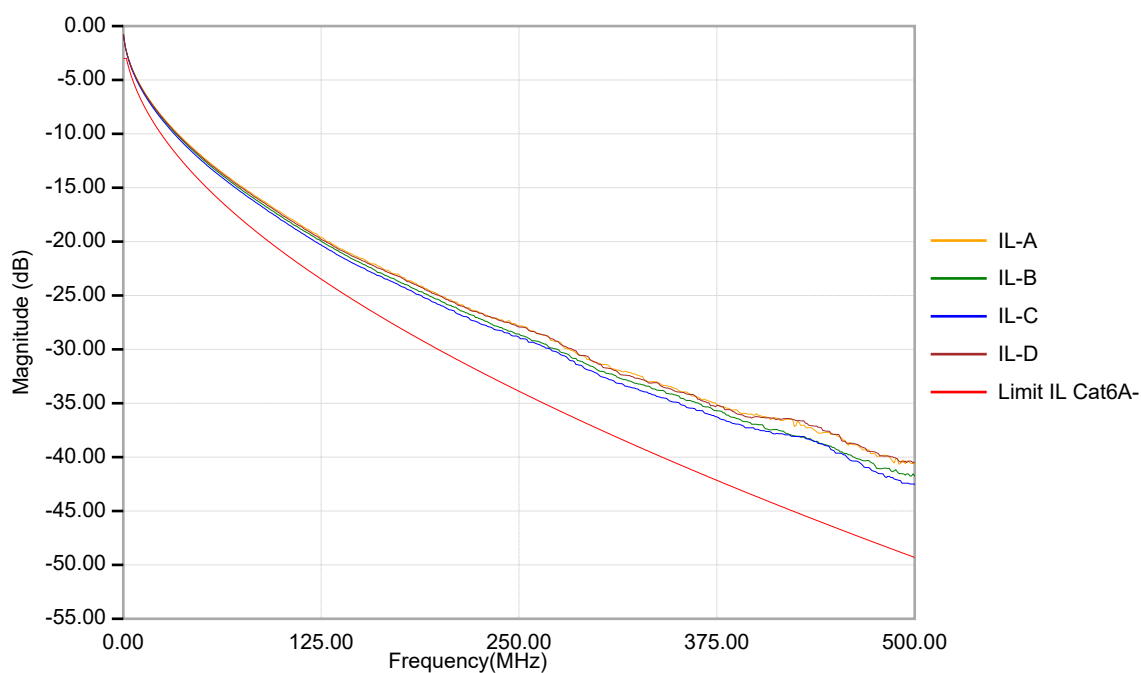
Pass

PSNEXT (Near End)		PSNEXT-B	dB	-60.5	-46.4	14.2	28.62
PSNEXT (Far End)		PSNEXT-B	dB	-60.4	-46.2	14.2	29.25
NEXT (Far End)		NEXT-BD	dB	-61.1	-48.9	12.2	29.25



Pass

1. Insertion Loss

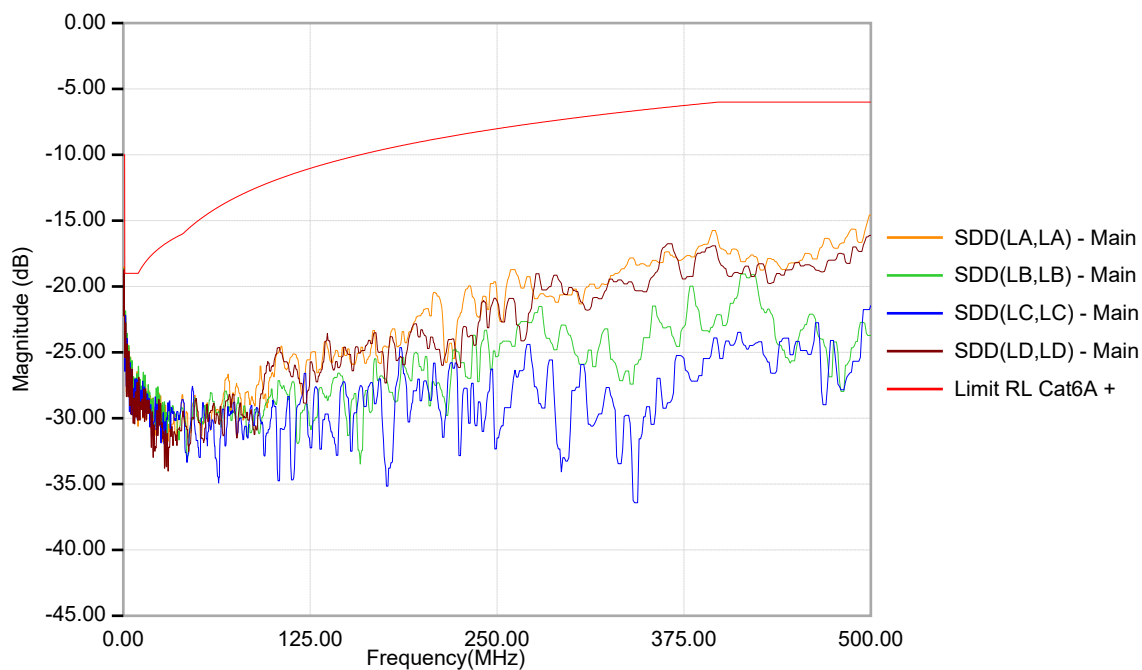


Measurement Values (dB)

Freq (MHz)	Limit (dB)	IL-A	IL-B	IL-C	IL-D
1	-3	-1.7	-1.7	-1.7	-1.7
4	-4.2	-3.3	-3.4	-3.4	-3.4
8	-5.8	-4.7	-4.8	-4.9	-4.8
10	-6.5	-5.3	-5.4	-5.5	-5.3
16	-8.2	-6.7	-6.9	-7	-6.8
20	-9.2	-7.5	-7.7	-7.8	-7.6
31.25	-11.5	-9.5	-9.7	-9.9	-9.6
62.5	-16.4	-13.6	-13.8	-14.1	-13.7
100	-20.9	-17.3	-17.7	-18	-17.5
200	-30.1	-25.1	-25.5	-25.9	-25
300	-37.4	-31.3	-32	-32.3	-31.4
400	-43.7	-36	-36.9	-37.4	-36.2
500	-49.3	-40.6	-41.8	-42.5	-40.5



2. Return Loss (Near End)

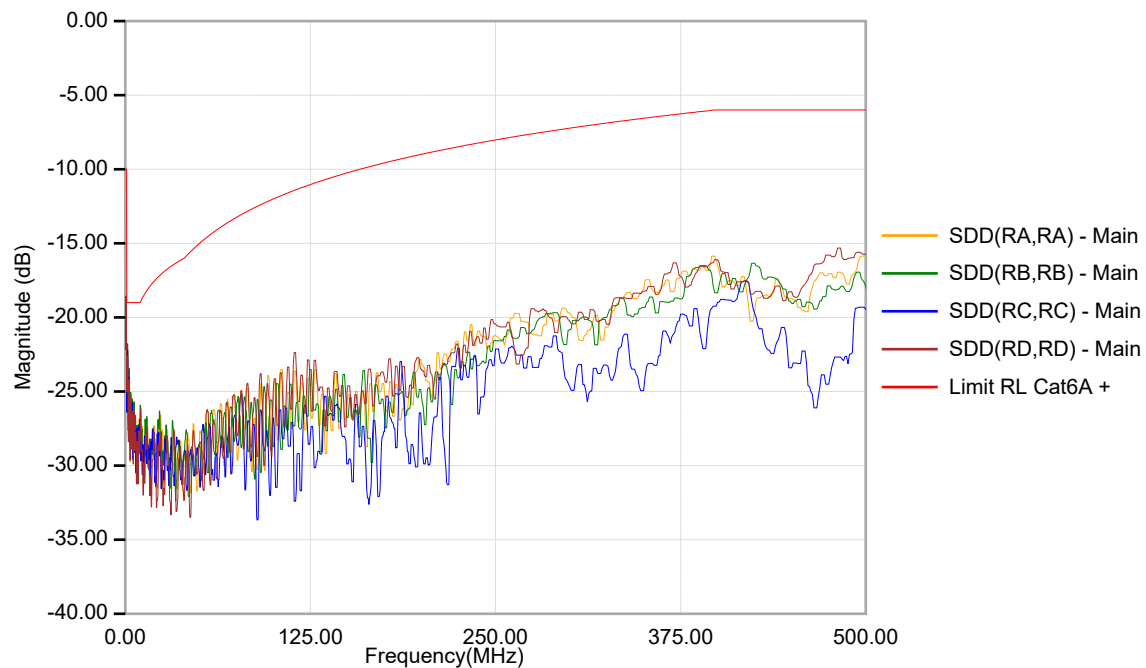


Measurement Values (dB)

Freq (MHz)	Limit (dB)	SDD(LA,LA) - Main	SDD(LB,LB) - Main	SDD(LC,LC) - Main	SDD(LD,LD) - Main
1	-19	-25.1	-25.2	-26.4	-25.4
4	-19	-25.9	-27.3	-29.5	-26.3
8	-19	-27	-26.9	-28.3	-28
10	-19	-30.6	-26.1	-27.1	-30
16	-18	-28.7	-29.1	-28.5	-28.6
20	-17.5	-31.1	-28.5	-31.3	-33
31.25	-16.5	-30.5	-30.7	-29.6	-31.2
62.5	-14	-29.3	-29.6	-33.3	-29.6
100	-12	-26.6	-28.5	-28.6	-26.1
200	-9	-22	-26.4	-28.2	-23.3
300	-7.2	-20.6	-24.1	-27.9	-20.1
400	-6	-17.1	-22.2	-25.5	-18.4
500	-6	-14.6	-23.7	-21.4	-16.1



3. Return Loss (Far End)

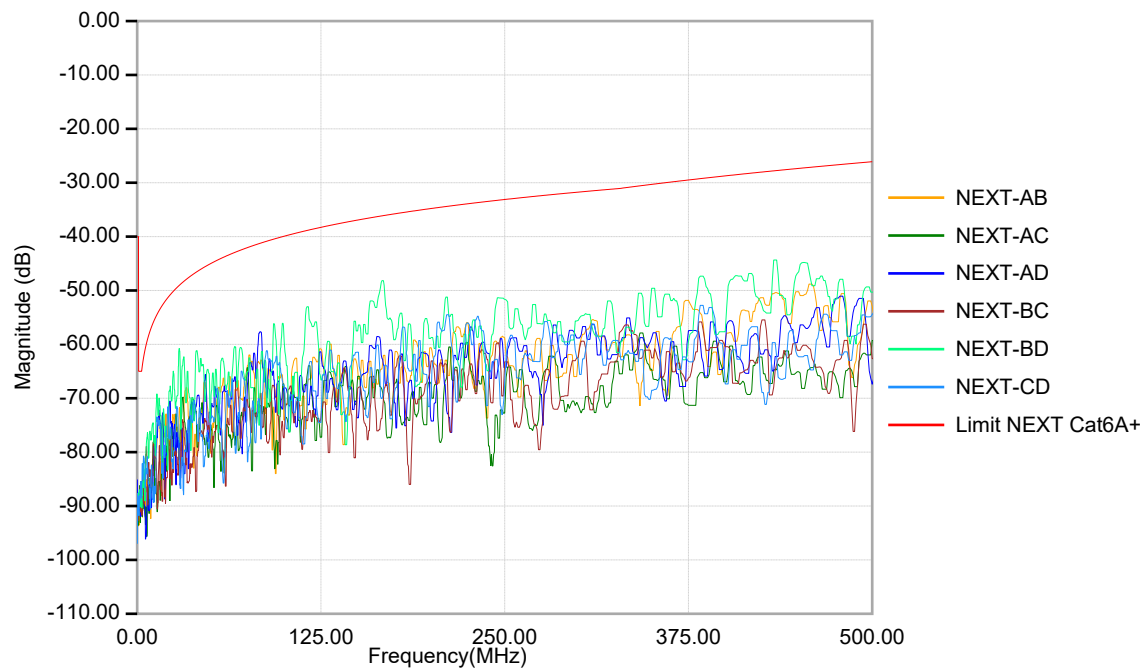


Measurement Values (dB)

Freq (MHz)	Limit (dB)	SDD(RA,RA) - Main	SDD(RB,RB) - Main	SDD(RC,RC) - Main	SDD(RD,RD) - Main
1	-19	-24.9	-25.2	-26.4	-25
4	-19	-26.1	-27.5	-28.6	-26.6
8	-19	-27.3	-27.3	-28.7	-28.4
10	-19	-28.3	-25.9	-26.9	-28.1
16	-18	-29	-30.3	-29.2	-29.6
20	-17.5	-28.9	-28.2	-31.1	-29.1
31.25	-16.5	-30.7	-29	-28.4	-31.4
62.5	-14	-29.3	-26.4	-30.9	-28.5
100	-12	-26.1	-28.7	-26.8	-24.7
200	-9	-23.2	-25.3	-27.4	-23.5
300	-7.2	-19.7	-20.8	-24.7	-20.2
400	-6	-16.5	-18.3	-19	-16.1
500	-6	-15.9	-17.9	-19.4	-15.7



4. NEXT (Near End)

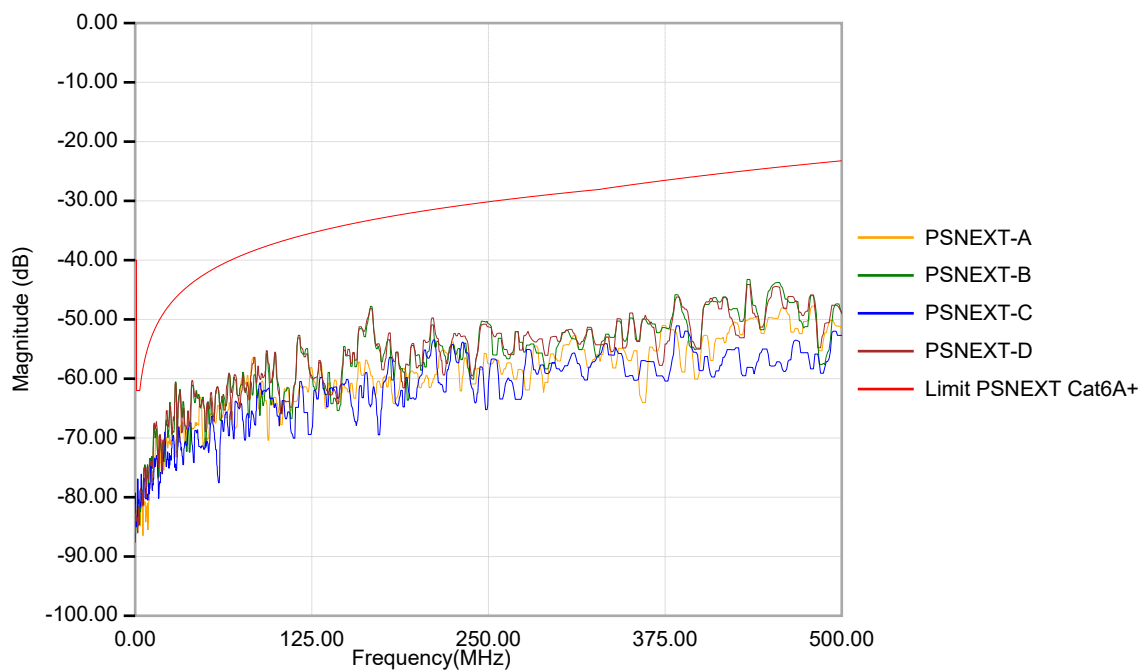


Measurement Values (dB)

Freq (MHz)	Limit (dB)	NEXT-AB	NEXT-AC	NEXT-AD	NEXT-BC	NEXT-BD	NEXT-CD
1	-65	-89.6	-90.9	-90.9	-89.8	-87.6	-91.8
4	-63	-88.3	-88.3	-86.9	-85.1	-86.6	-85.1
8	-58.2	-89.5	-89.3	-90.9	-82.4	-81	-86.3
10	-56.6	-83.5	-87.2	-84.7	-86.3	-75.5	-82.6
16	-53.2	-81.3	-88	-74.6	-85.3	-73.3	-75.7
20	-51.6	-75.6	-80.1	-80.4	-84.7	-77	-77.2
31.25	-48.4	-80.9	-69.8	-82.5	-74.5	-62.8	-87.1
62.5	-43.4	-67.3	-77	-71.4	-75	-65.1	-71.7
100	-39.9	-74	-68.4	-68.1	-77.3	-59.5	-67.7
200	-34.8	-60.6	-67.3	-74.2	-63.1	-58.7	-69.7
300	-31.8	-62.2	-71.3	-58.8	-62.4	-55.5	-62.7
400	-28.7	-59.6	-67	-60.4	-60.4	-57.7	-67.3
500	-26.1	-52.9	-59.3	-67.4	-62.6	-50.3	-54.4



5. PSNEXT (Near End)

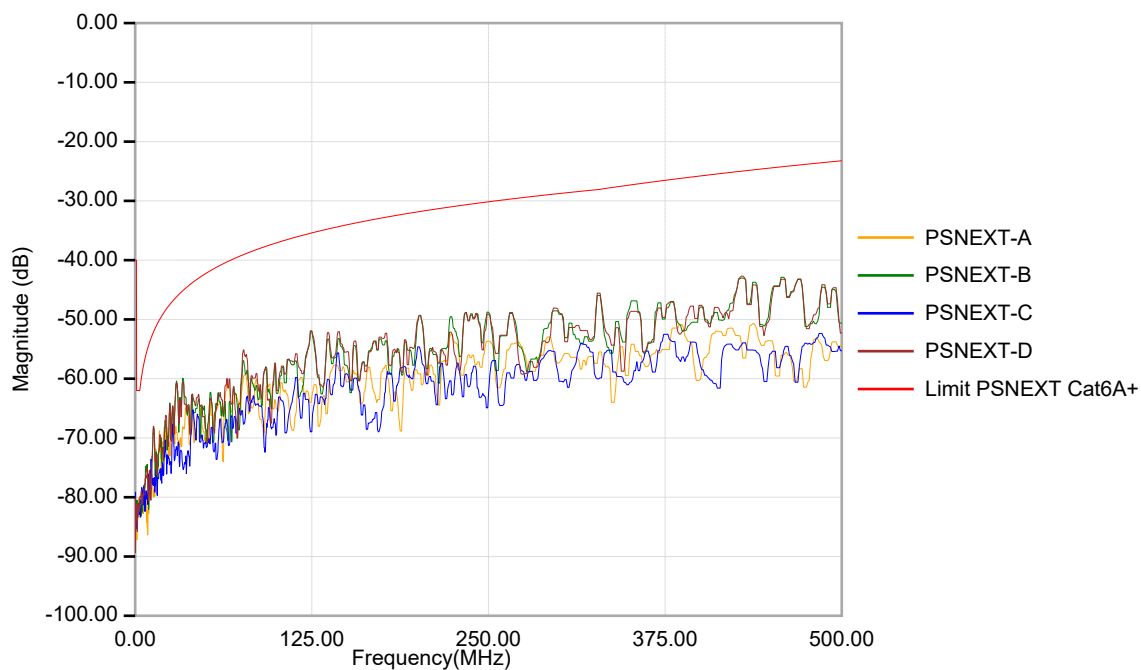


Measurement Values (dB)

Freq (MHz)	Limit (dB)	PSNEXT-A	PSNEXT-B	PSNEXT-C	PSNEXT-D
1	-62	-82.2	-83.7	-84.5	-84
4	-60.5	-82.3	-81.2	-81.4	-79.1
8	-55.6	-83.2	-77.5	-79.7	-79.3
10	-54	-80.5	-74.8	-79.5	-74.7
16	-50.6	-73.2	-72.9	-76.4	-69.7
20	-49	-75	-72.8	-73.3	-71.4
31.25	-45.7	-69	-62.5	-68.9	-62.6
62.5	-40.6	-65.8	-62.6	-68.9	-63.8
100	-37.1	-64.1	-59.7	-64.9	-57.9
200	-31.8	-59.2	-56	-61.2	-58.2
300	-28.8	-57	-54	-58.3	-53.7
400	-25.8	-56.6	-55	-58.6	-54.9
500	-23.2	-51.8	-49	-52.7	-48.8



6. PSNEXT (Far End)



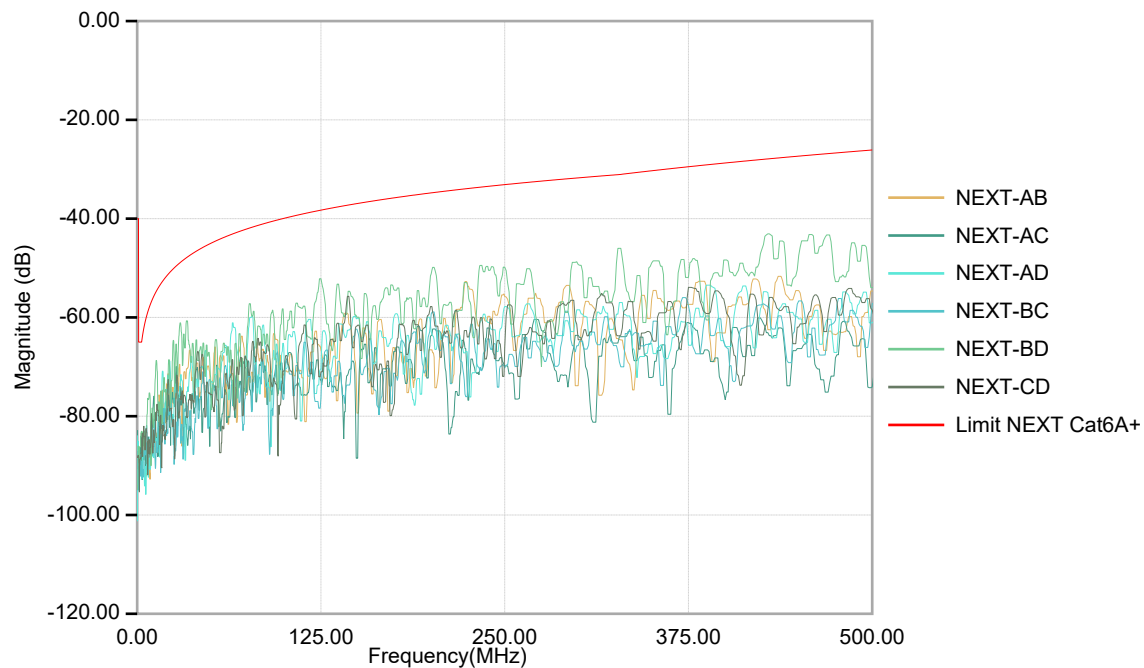
Measurement Values (dB)

Freq (MHz)	Limit (dB)	PSNEXT-A	PSNEXT-B	PSNEXT-C	PSNEXT-D
1	-62	-85.1	-82.1	-85.2	-83.7
4	-60.5	-81.9	-80.6	-82	-80
8	-55.6	-84.2	-75.5	-80.3	-75.3
10	-54	-79.4	-79.3	-78.7	-77.1
16	-50.6	-74.5	-76.2	-76.7	-72.8
20	-49	-71.1	-72.4	-76.3	-73.9
31.25	-45.7	-71.9	-67.6	-74.2	-66.5
62.5	-40.6	-74	-66.3	-70.7	-65.9
100	-37.1	-65.1	-62.5	-69.5	-62
200	-31.8	-59.2	-50.4	-54.6	-50.2
300	-28.8	-57.3	-49.1	-60.4	-48.8
400	-25.8	-60.1	-47.9	-57.8	-47.6
500	-23.2	-54.2	-50.6	-55.3	-52.3



Pass

7. NEXT (Far End)



Measurement Values (dB)

Freq (MHz)	Limit (dB)	NEXT-AB	NEXT-AC	NEXT-AD	NEXT-BC	NEXT-BD	NEXT-CD
1	-65	-90.5	-92	-89.3	-94.8	-86	-88.3
4	-63	-84.7	-87.8	-88	-90.7	-84.1	-84.5
8	-58.2	-88.9	-87.2	-88.7	-85.3	-76.3	-84.7
10	-56.6	-85.1	-84.2	-87.4	-87.9	-80.2	-83.9
16	-53.2	-86.4	-86.5	-76.7	-91.4	-78	-79.7
20	-51.6	-75.7	-81.1	-74.6	-84	-77.7	-82.3
31.25	-48.4	-77.5	-79.7	-76.5	-88.7	-68.4	-77.4
62.5	-43.4	-76.8	-80.2	-76.7	-73.9	-69.1	-74.5
100	-39.9	-71.7	-75.5	-68.9	-74.9	-64.5	-70.9
200	-34.8	-66.6	-63.7	-62.9	-59.3	-51.2	-57.8
300	-31.8	-73.8	-63.6	-58.5	-65.7	-49.3	-64.5
400	-28.7	-63.2	-76.7	-65.9	-65.8	-48.4	-57.7
500	-26.1	-54.6	-74.1	-61.1	-57.3	-53.9	-58.5