

Test Report

Number: GZHH00460506

Applicant: ZHONGSHAN POWERLINK BABY PRODUCTS
CO.,LTD
#38 REHHE SOUTH STREET, GUANGFONG
WEI DONGSHEN TOWN,ZHONGSHAN CITY,
GUANGDONG PROVINCE, CHINA

Date: Nov 09, 2022

Attn: JOCELYN DU

Sample Description:

One (1) piece of submitted sample said to be :

Item Name : **Baby Wagon**
Item No. : **W221**
Reference No. : **V2**
Manufacturer : Zhongshan Powerlink Baby Products Co., Ltd
Country of Destination : USA
Country of Origin : China
Date Sample Received : Jul 13, 2022 & Sep 19, 2022 & Oct 08, 2022 & Nov 07, 2022
Testing Period : Jul 13, 2022 to Nov 09, 2022



Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

To be continued



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Conclusion:

<u>Tested samples</u> Submitted sample	<u>Standard</u>	<u>Result</u>
	ASTM F833-21 – Safety Performance Specification for Carriages and Strollers	Pass
	16 CFR 1227 (Incorporating by reference ASTM F833-21) - Safety Standard for Carriages and Strollers	Pass
	16 CFR 1130 - Requirements for Consumer Registration of Durable Infant or Toddler Products	Pass
	<u>Standard - U.S. CFR Title 16 (CPSC Regulations)</u> Physical and mechanical tests	Pass
	Part 1500.3(C)(6)(vi) flammability test on rigid and pliable solids	Pass
	<u>Standard</u> Consumer Product Safety Improvement Act (CPSIA) 2008 Section 103 Tracking Labels For Children Products	Pass

To be continued



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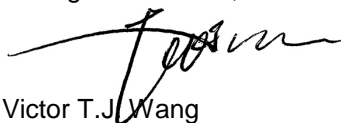
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Conclusion:

<u>Tested samples</u>	<u>Standard</u>	<u>Result</u>
Tested components of submitted samples	U.S. CFR Title 16 Part 1303 total Lead content	Pass
	U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101 for total Lead content in surface coating	Pass
	U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101 for Total Lead content in Non-surface coating materials (substrate)	Pass
	U.S. Consumer Product Safety Improvement Act 2008 Title I, Sec 108(a) & (b)(3) and US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	Pass

Authorized by:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch, Hardlines



Victor T.J. Wang
Assistant General Manager



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Tests Conducted

1 Safety Performance Specification for Carriages and Strollers

Test standard : ASTM F833-21 - Standard Consumer Safety Performance Specification for Carriages and Strollers.

Executive summary :

Clauses	Testing Items	Assessment
1	Scope	
2	Referenced documents	
3	Terminology	
4	Calibration and standardization	
5	General requirements	
5.1	Sharp points (16 CFR 1500.48) Sharp edges (16 CFR 1500.49)	P
5.2	Small parts	P
5.3	Paint and surface-coating	P
5.4	Exposed wood parts	NA
5.5	Latching mechanisms	P
5.6	Openings	P
5.7	Scissoring, shearing, pinching	
5.7.1	General	P
5.7.2	Saddle hinge links on 3D fold strollers	NA
5.7.3	Canopy pivots and canopy frame members	NA
5.7.4	The frame folding action of a 2D fold stroller and convertible carriage/stroller	P
5.8	Exposed coil springs	NA
5.9	Labeling	P
5.10	Protective components	P
5.11	Seat recline measurement	Max. angle: 93.2°
5.12	Toy	NA
5.13	Cord/Strap length	P
5.14	Tray/Grab Bar Protective Covering Requirement	NA



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Clauses	Testing Items	Assessment
6	Performance requirements	
6.1	Parking brake requirements	P
6.2	Static load	
6.2.1	Carriage type	NA
6.2.2	Stroller type	P
6.2.3	Convertible carriage/stroller type	NA
6.2.4	Combination unit of a car seat on a stroller	NA
6.2.5	Multiple occupancy units	P
6.2.6	Step or footrest	P
6.3	Stability	P
6.4	Restraining system	
6.4.1	Carriage	NA
6.4.2	Stroller	P
6.4.3	Convertible carriage/stroller	NA
6.4.4	Restraining system	P
6.4.5	Harness system – The height of the shoulder strap’s potential anchors	P
6.4.6	Location of restraining system	P
6.4.7	Buckle release	
6.4.7.1	Single action release mechanism	P
6.4.7.2	Double-action release mechanism	NA
6.5	Occupant retention	NA
6.6	Car seat/stroller products	
6.6.1	Combination unit of a car seat on a stroller	NA
6.6.2	Convertible car seat/stroller	NA



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Clauses	Testing Items	Assessment
6.7	Impact test	
6.7.1	For combination unit of a car seat on a carriage, stroller, or convertible carriage/stroller	NA
6.7.2	For carriage, stroller, or convertible carriage/stroller	P
6.8	Passive containment/Foot opening	NA
6.9	Wheel and swivel assemblies detachment	
6.9.1	Wheel(s) and swivel(s) assemblies	P
6.9.2	A removable-wheel fork assembly(s)	NA
6.10	Head entrapment with car seat on a stroller or convertible carriage/stroller	NA
7	Test methods	
8	Marking and labeling	P
9	Instructional literature	P

Abbreviation : P = Pass; NA = Not applicable

Sample information

- Braking system	On rear wheels
- Angle between seat & backrest	Front seat: Nonadjustable/Positions to give an angle of less than 150°
	Rear seat: Nonadjustable/Positions to give an angle of less than 150°
- Handle	Adjustable
- Footrest	Nonadjustable
- Wheels	Front : Single, Swivel
	Rear : Single, Fixed
- Seat unit	Detachable
- Carriage	Without carriage
- Car seat	Without car seat



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Tests Conducted

2 Safety Standard for Carriages and Strollers

As per 16 CFR 1227 – Safety Standards for Carriages and Strollers, the submitted sample was subjected to the following tests in accordance with the variations of ASTM F833-21.

Executive summary :

Clauses	Testing Items	Assessment
1	Scope	
2	Referenced documents	
3	Terminology	
4	Calibration and standardization	
5	General requirements	
5.1	Sharp points (16 CFR 1500.48) Sharp edges (16 CFR 1500.49)	P
5.2	Small parts	P
5.3	Paint and surface-coating	P
5.4	Exposed wood parts	NA
5.5	Latching mechanisms	P
5.6	Openings	P
5.7	Scissoring, shearing, pinching	
5.7.1	General	P
5.7.2	Saddle hinge links on 3D fold strollers	NA
5.7.3	Canopy pivots and canopy frame members	NA
5.7.4	The frame folding action of a 2D fold stroller and convertible carriage/stroller	P
5.8	Exposed coil springs	NA
5.9	Labeling	P
5.10	Protective components	P



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Clauses	Testing Items	Assessment
5.11	Seat recline measurement	Max. angle: 93.2°
5.12	Toy	NA
5.13	Cord/Strap length	P
5.14	Tray/Grab Bar Protective Covering Requirement	NA
6	Performance requirements	
6.1	Parking brake requirements	P
6.2	Static load	
6.2.1	Carriage type	NA
6.2.2	Stroller type	P
6.2.3	Convertible carriage/stroller type	NA
6.2.4	Combination unit of a car seat on a stroller	NA
6.2.5	Multiple occupancy units	P
6.2.6	Step or footrest	P
6.3	Stability	P
6.4	Restraining system	
6.4.1	Carriage	NA
6.4.2	Stroller	P
6.4.3	Convertible carriage/stroller	NA
6.4.4	Restraining system	P
6.4.5	Harness system – The height of the shoulder strap’s potential anchors	P
6.4.6	Location of restraining system	P
6.4.7	Buckle release	
6.4.7.1	Single action release mechanism	P
6.4.7.2	Double-action release mechanism	NA
6.5	Occupant retention	NA



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Clauses	Testing Items	Assessment
6.6	Car seat/stroller products	
6.6.1	Combination unit of a car seat on a stroller	NA
6.6.2	Convertible car seat/stroller	NA
6.7	Impact test	
6.7.1	For combination unit of a car seat on a carriage, stroller, or convertible carriage/stroller	NA
6.7.2	For carriage, stroller, or convertible carriage/stroller	P
6.8	Passive containment/Foot opening	NA
6.9	Wheel and swivel assemblies detachment	
6.9.1	Wheel(s) and swivel(s) assemblies	P
6.9.2	A removable-wheel fork assembly(s)	NA
6.10	Head entrapment with car seat on a stroller or convertible carriage/stroller	NA
7	Test methods	
8	Marking and labeling	P
9	Instructional literature	P

Abbreviation : P = Pass; NA = Not applicable



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Tests Conducted

3 Requirements for Consumer Registration of Durable Infant or Toddler Products

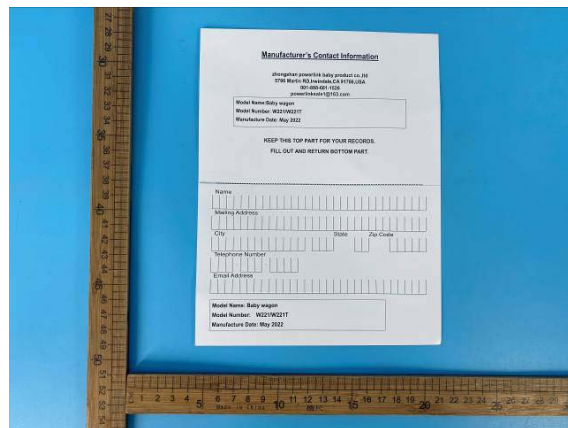
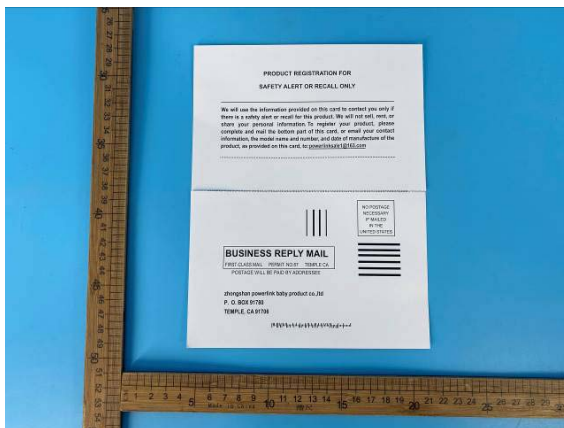
As per the client's requirements, with reference to 16 CFR 1130 - Requirements for Consumer Registration of Durable Infant or Toddler Products, the submitted sample was subjected to the following tests.

Executive Summary:

Clause	Requirements	Result
1130.3	General requirements	P
1130.4	Identification on the product	P
1130.5	Requirements for registration forms	P
1130.6	Requirements for format and text of registration forms	P
1130.7	Requirements for Web site registration or alternative email registration	P

Abbreviation: P = Pass

Photos of tested sample for reference



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Tests Conducted

4 Physical and Mechanical Tests

As per U.S. Code of Federal Regulations Title 16 part 1500.50, the hazards of sharp points, sharp edge and small parts are assessed both before and after applicable use and abuse tests.

	No. of sample tested	Sharp Point (1500.48)	Sharp Edge (1500.49)	Small Part (1501)
As received	1	P	P	P
Impact test (1500.51(b))	1	P	P	P
Flexure test (1500.52(d))	0	NA	NA	NA
Torque test (1500.52(e))	1	P	P	P
Tension test (1500.52(f))	1	P	P	P
Compression test (1500.52(g))	1	P	P	P

Remark: P = Pass NA = Not Applicable

5 Flammability test

As per U.S. Code of Federal Regulations Title 16 Part 1500.44 for rigid and pliable solids

Result : Ignited but self-extinguished before burn rate could be determined



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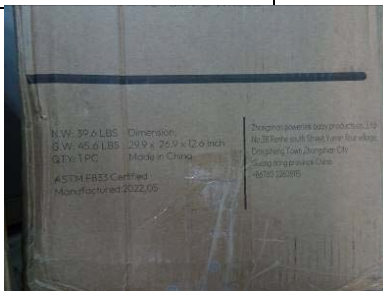
Tests Conducted

6 Tracking Label Assessment

As per Consumer Product Safety Improvement Act (CPSIA) 2008 Section 103 Tracking Labels For Children Products

Tracking label found on the packaging:

Name of manufacturer / importer / private labeler:	Zhongshan Powerlink baby products co.,Ltd
Location of production:	No.38 Renhe south Street, Yumin four village, Dongsheng Town, Zhongshan City Guang dong province China
Date code:	2022.05



Tracking label found on the product(s):

Name of manufacturer / importer / private labeler:	Zhongshan Powerlink baby products co.,Ltd
Location of production:	No.38 Renhe south Street, Yumin four village, Dongsheng Town, Zhongshan City Guang dong province China
Date code:	2022.05



The tracking label assessment was based on the submitted sample and the information provided by the applicant. There was no verification on the validity of such information.



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Tests Conducted

7 Total Lead (Pb) Content (U.S. 16 CFR Part 1303)

As per Standard Operating Procedure for Determining Lead (Pb) in paint and other similar surface coatings, test method CPSC-CH-E1003-09.1 was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (%)	Reporting Limit (%)	Limit (%)
	Tested Component		
	(1+2), (3+4)		
Lead (Pb)	ND	0.001	0.009

The above limit was quoted according to U.S. CFR Title 16 Part 1303 for Ban of Lead-containing Paint and Certain Consumer Products Bearing Lead-containing Paint.

ND = Not detected (less than reporting limit)

Tested Components: See component list in the last section of this report



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Tests Conducted

8 Total Lead (Pb) Content in Surface Coating (U.S. 16 CFR Part 1303 and CPSIA Section 101)

As per Standard Operating Procedure for Determining Lead (Pb) in paint and other similar surface coatings, test method CPSC-CH-E1003-09.1 was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (ppm)	Reporting Limit (ppm)	Limit (ppm)
	Tested Component		
	(1+2), (3+4)		
Lead (Pb)	ND	10	90

The above limit was quoted according to U.S. CFR Title 16 Part 1303 and U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101 for total Lead content in surface coating.

ppm = parts per million = mg/kg
 ND = Not detected (less than reporting limit)

Tested component(s): See component list in the last section of this report

Remark: As requested by the applicant, the normal and reasonably foreseeably use and abuse test was not conducted on the submitted sample.



Tests Conducted

9 Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate) (U.S. CPSIA Section 101)

As per Standard Operating Procedures for Determining total Lead (Pb) in children's products, test methods CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001-08.3 were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (ppm)	Reporting Limit (ppm)	Limit (ppm)
	Tested Component		
	(65+66+67)		
Lead (Pb)	13	10	100

Element	Result (ppm)	Reporting Limit (ppm)	Limit (ppm)
	Tested Component		
	(5+6+7), (8), (9), (10), (11+12), (13), (14+15+16), (17+18+21), (19+22+23), (20), (24+28), (25+26+27), (29+30+31), (32+33+34), (35+36+37), (38+39+40), (41+42+43), (44+45+46), (47+48), (49+84), (50+51+52), (53+55), (54), (56+57+58), (59+60+61), (62+63+64), (68+69+70), (71+72+73), (74+75+76), (77+78+79), (80+81+82), (83)		
Lead (Pb)	ND	10	100

The above limit was quoted according to U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101 for total Lead content in Non-surface coating materials.

ppm = parts per million = mg/kg
 ND = Not detected (less than reporting limit)

Tested components: See component list in the last section of this report



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Tests Conducted

10 Phthalate Content (U.S. 16 CFR Part 1307)

As per CPSC-CH-C1001-09.4, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test item	CAS No.	Result (%)	Reporting limit (%)	Limit (%)
		Tested component (1+2), (3+4), (5+6+7), (8), (9), (10), (11+12), (13), (14+15+16), (17+18+21), (19+22+23), (20), (24+28), (25+26+27), (54)		
Dibutyl phthalate (DBP)	84-74-2	ND	0.01	0.1
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	0.01	0.1
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.01	0.1
Di-iso-nonyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	0.01	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.01	0.1
Di-n-pentyl Phthalate (DPENP)	131-18-0	ND	0.01	0.1
Di-n-hexyl Phthalate (DHEXP)	84-75-3	ND	0.01	0.1
Dicyclohexyl Phthalate (DCHP)	84-61-7	ND	0.01	0.1

The above limit was quoted according to U.S. 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates.

ND = Not detected (less than reporting limit)

Tested Component(s): See component list in the last section of this report



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Tests Conducted

Component list:

- (1) Black coating on metal (all rods of frame, small handle, big handle, axle, legs).
- (2) Bright black coating on metal (zipper of bag, body).
- (3) Light black coating on metal (sewn-in label of body).
- (4) Dull bright black coating on metal (buttons of bag).
- (5) Black plastic (fastener of frame, wheel cover).
- (6) Black foam (tires).
- (7) White plastic (fastener of canopy support).
- (8) Transparent soft plastic (tube of canopy).
- (9) Black soft plastic (fastener of canopy).
- (10) Semi-transparent beige plastic (cap of screw of legs).
- (11) White plastic (top of side legs).
- (12) Semi-transparent white plastic (interlayer of seat, bag, body).
- (13) Black synthetic leather with grey woven backing (cover of big handle).
- (14) Bright black plastic (body, fastener of small handle, big handle, top of rod of canopy).
- (15) Black plastic (zipper teeth of bag, body).
- (16) Black plastic (bottom stop, top stop of zipper of bag, body).
- (17) Black woven with glue (reinforce tape of zipper tape).
- (18) Black elastic band (hook of bag).
- (19) Black plastic (buckle of hook of bag).
- (20) Black carbon fiber (rod of canopy).
- (21) Black Velcro (hook of seat, body).
- (22) Matt bright black plastic (slide, fastener of small handle).
- (23) Matt bright black plastic (buckle, fastener of small handle).
- (24) Black plastic (stopper of all rods of bottom of frame).
- (25) Black foam (cover of big handle).
- (26) Beige sponge (inner of seat).
- (27) White foam (inner of body).
- (28) Black plastic with glue (button of "U" rod of bag).
- (29) Silver color metal excluding coating (cap of snap button of bag).
- (30) Silver color metal (base of socket side of snap button of bag).
- (31) Silver color metal (rivet of socket side of snap button of bag).
- (32) Silver color metal excluding coating (cap of snap button of bag).
- (33) Silver color meta (base of stud of snap button of bag).
- (34) Silver color metal (rivet of stud of snap button of bag).
- (35) Dark silver color metal (snap joint of hubcap of wheel).
- (36) Dark silver color metal (axletree of upper of hubcap of wheel).
- (37) Dark silver color metal (screw of wheel).
- (38) Dark silver color metal (thick of rivet of wheel).
- (39) Dark silver color metal (thin of rivet of wheel).
- (40) Dark silver color metal (gasket of both rivets of wheel).



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- (41) Silver color metal excluding coating (square long rod of bottom of frame).
- (42) Silver color metal excluding coating (square short rod of bottom of frame).
- (43) Silver color metal excluding coating (edge of bottom of frame)
- (44) Silver color metal excluding coating (oblate rod of bottom of frame).
- (45) Silver color metal excluding coating (fasten of oblate rod of bottom of frame).
- (46) Silver color metal excluding coating (square ring of bottom of frame).
- (47) Silver color metal (button of base of frame).
- (48) Silver color metal (axle of legs).
- (49) Silver color metal (gasket of fastener of thin oblate of interlayer of seat).
- (50) Black treated metal (rivet of fastener of side frame).
- (51) Light copper color metal (rivet of fastener of side frame, small handle, bottom frame, big handle).
- (52) Silver color metal (rivet of fastener of bottom frame).
- (53) Silver color metal (big screw of fastener of bottom of side frame).
- (54) Black plastic (gasket of big of big screw of side frame).
- (55) Dark silver color metal (oblate screw of thick rod of big handle).
- (56) Dark silver color metal (round screw of thick rod of big handle).
- (57) Dark silver color metal (small screw of top of rod of canopy).
- (58) Silver color metal (nut of big screw of fastener of bottom of side of frame).
- (59) Dark silver color metal (small gasket of rivet of fastener of side frame, big handle, rod of wheel).
- (60) Black treated metal (rivet of fastener of small handle).
- (61) Silver color metal (big gasket of fastener of side frame).
- (62) Silver color metal excluding coating (thin rod of wheel).
- (63) Silver color metal excluding coating (thick rod of wheel).
- (64) Silver color metal excluding coating (fastener of thin rod of wheel).
- (65) Metallic blue metal (spring rod of wheel).
- (66) Silver color metal excluding coating (joint of slider).
- (67) Silver color metal excluding coating (zipper puller).
- (68) Silver color metal excluding coating (zipper slider).
- (69) Silver color metal excluding coating (long pole of side of frame).
- (70) Silver color metal excluding coating (oblique pole of side of frame).



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- (71) Silver color metal excluding coating (crooked pole of side of frame).
- (72) Silver color metal excluding coating (legs).
- (73) Silver color metal excluding coating (long pole of long of small handle).
- (74) Silver color metal excluding coating (short pole of short of small handle).
- (75) Silver color metal excluding coating (buckle of small handle).
- (76) Dark silver color metal (spring of buckle of small handle).
- (77) Dark silver color metal excluding coating (base of small handle).
- (78) Silver color metal excluding coating (fastener of base of small handle)
- (79) Gun color metal (spring of base of small handle).
- (80) Silver color metal excluding coating ("U" rod of big handle).
- (81) Silver color metal excluding coating (thick rod of big handle).
- (82) Silver color metal (big handle).
- (83) Silver color solder excluding coating (joint of all rods of frame).
- (84) Silver color metal excluding coating (thin oblate of interlayer of seat).

End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

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