

# Test Report

No.: 70.452.21.12618.01

Date: 2022-07-25

**Applicant:** NANJING HANBU TRAVEL SUPPLIES CO., LTD  
**Address:** 1-58 RUIJIN ROAD, QINHUAI DISTRICT, NANJING CITY, JIANGSU PROVINCE, CHINA  
**Product Name:** Framed Backpack Carrier  
**Style No.:** WIPHA / Model Np./Type:YAK-I  
**Supplier:** NANJING HANBU TRAVEL SUPPLIES CO., LTD  
**Country of Origin:** China  
**Country of Destination:** USA  
**Receipt Date of Sample:** 2021-07-15, 2021-09-30, 2021-12-08, 2022-01-11, 2022-03-24, 2022-06-29, 2022-07-11  
**Date of Testing:** 2021-07-15 to 2022-07-25  
**Date of Further information:** 2022-06-08  
**Sample Submitted:** The sample(s) was (were) submitted by applicant and identified.  
**Test Result:** Refer to the data listed in following pages

Test Item	Conclusion
1. ASTM F2549-14a — Standard Consumer Safety Specification for Frame Child Carriers & 16 CFR Part 1230 — Safety Standard for Frame Child Carriers.	Pass
2. Total Lead Content Test in paint/similar surface coating material in accordance with Consumer Product Safety Improvement Act of 2008 Section 101	Pass
3. Total Lead Content Test in accessible substrate materials in accordance with Consumer Product Safety Improvement Act of 2008 Section 101	Pass
4. 16 CFR Part 1307 amending CPSIA section 108, Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	Pass

Remarks

1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. <= Less than
4. 1 mg/kg = 1 ppm = 0.0001%

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TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch  
Testing Center

Prepared by:

Jenny Yao  
Technical Engineer

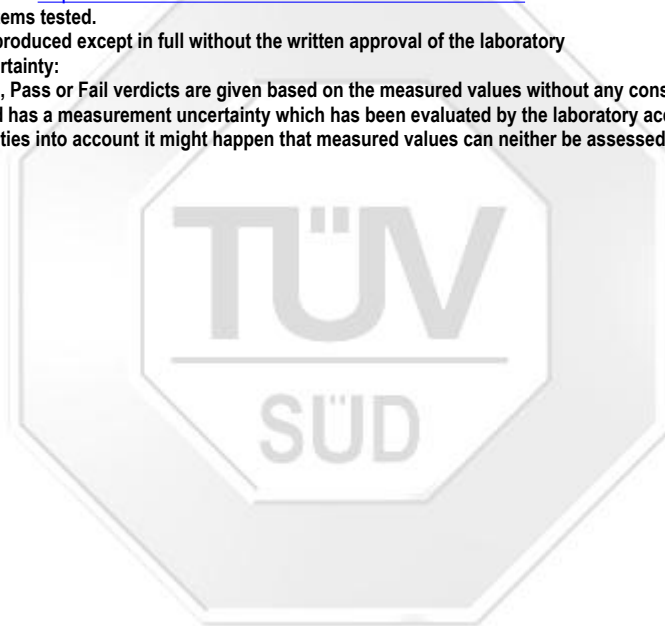


Authorized by:

Sawyer Tang  
Technical Manager

Note:

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- (2) The results relate only to the Items tested.
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Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as Pass nor as Fail.



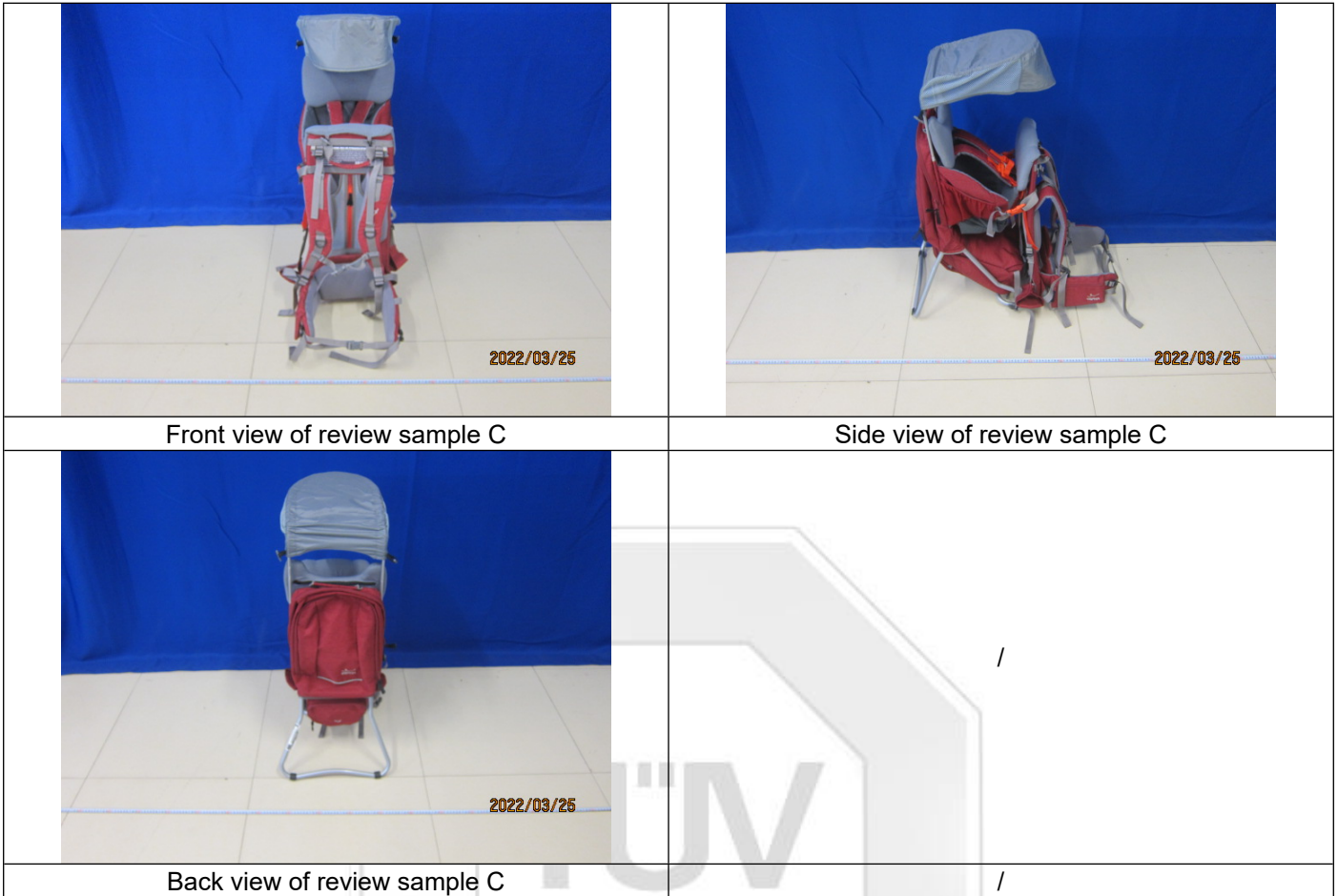
Description of Tested Subject:

<p><b>Sample Receiving Info</b></p>	<p>Sample Received on: 2021-07-15, Complete test sample A~C 1 pc/model.                  Sample Received on: 2021-09-30, Revised sample C 1 pc.                  Sample Received on: 2021-12-08, Revised sample A~C 1 pc/model.                  Sample Received on: 2022-01-11, Revised sample A pc.                  Sample Received on: 2022-03-24, Revised sample B~C 1 pc/model.                  Sample Received on: 2022-06-29, Revised sample B 1 pc &amp; 2022-07-11, revised sample A 1pc.</p>
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<p><b>Sample Description</b></p>	<p>Overall weight (kg):</p>	<p>A: 3.43; B:3.39; C:3.49</p>
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Sample Photo

 <p>2022/07/11</p>	 <p>2022/07/11</p>
<p>Front view of test sample A</p>	<p>Side view of test sample A</p>
 <p>2022/07/11</p>	 <p>2021/07/04</p>
<p>Back view of test sample A</p>	<p>Front view of review sample B</p>
 <p>2021/07/04</p>	 <p>2021/07/04</p>
<p>Side view of review sample B</p>	<p>Back view of review sample B</p>





Sample	Description	Photo
A	Framed Backpack Carrier	 <p>2021/08/30</p>
B	Framed Backpack Carrier	 <p>2021/08/30</p>
C	Framed Backpack Carrier	 <p>2021/08/30</p>


**Test Report**

**No.: 70.452.21.12618.01**

**Date: 2022-07-25**

Sample	Description	Photo
009	Grey elastic band (A/B/C)	
010	Grey plastic (buckle, A/B/C)	
011	Black plastic (joint/parts, A/B/C)	
012	Red plastic (A/B/C)	

**Test Report****No.: 70.452.21.12618.01****Date: 2022-07-25**

Sample	Description	Photo
016	Silver aluminum film (lining, A/B/C)	

T. No	Sample	Description
T1	001	Grey coating on metal (frame, A/B/C)
T2	002	Black coating on metal (zipper slider/head, A/C)
T3	003	Red coating on metal (zipper slider/head, A/B/C)
T4	004	Black coating (warning label, A/B/C)
T5	005	Yellow coating (warning label, A/B/C)
T6	006	Red fabric with backing (body, A)
T7	007	Dark blue fabric with backing (body, B)
T8	008	Black fabric with backing (body, C)
T9	009	Grey elastic band (A/B/C)
T10	010	Grey plastic (buckle, A/B/C)
T11	011	Black plastic (joint/parts, A/B/C)
T12	012	Red plastic (A/B/C)
T13	013	Black plastic (zipper teeth, A/C)
T14	014	Grey plastic (zipper teeth, A/B/C)
T15	015	Red plastic (zipper teeth, A/B/C)
T16	016	Silver aluminum film (lining, A/B/C)
T17	017	Grey plastic hook fastener (A/B/C)
T18	018	Black plastic hook fastener (A/B)
T19	019	Silver reflective cloth (A/B/C)
T20	020	Silver metal (rivet, A/B/C)
T21	021	Black metal (zipper slider/head, A/B/C)
T22	022	Metal without coating (frame, A/B/C)
T23	023	Metal without coating (zipper slider/head, A/B/C)
T24	024	Black foam (A/B)
T25	025	White plastic (gasket, A/B)
T26	026	Deep blue plastic (zipper teeth, B)
T27	027	Deep blue coating (zipper slider/head, B)
T28	028	Black elastic band (A/B)

Test Result(s):

1. Tests with reference to ASTM F2549-14a — Standard Consumer Safety Specification for Frame Child Carriers & 16 CFR Part 1230 — Safety Standard for Frame Child Carriers.

Clause	Requirement	Result	Verdict
5	<b>General Requirements</b>		
5.1	<b>Hazardous Sharp Points or Edges</b> —There shall be no sharp points or edges as defined by 16 CFR 1500.48 and 16 CFR 1500.49 before and after testing.	Complied	P
5.2	<b>Small Parts</b> —There shall be no small parts as defined by 16 CFR 1501 before testing or liberated as a result of testing to this specification.	Complied	P
5.3	<b>Lead in Paint</b> —The paint or surface coating on the product shall comply with 16 CFR 1303.	See result 1.1	P
5.4	<b>Wood Parts</b> —Prior to testing, any wooden parts shall be smooth and free of splinters.	-	N/A
5.5	<b>Scissoring, Shearing, Pinching</b> —A product, when in a manufacturer’s recommended use position, shall be designed and constructed so as to prevent injury to the occupant from an scissoring, shearing, or pinching when members or components rotate about a common axis or fastening point, slide, pivot, fold, or otherwise move relative to one another. Scissoring, shearing, or pinching that may cause injury shall not be permissible when the edges of any rigid parts admit a probe greater than 0.210 in. (5.30 mm) and less than 0.375 in. (9.50 mm) diameter at any accessible point throughout the range of motion of such parts.	Complied	P
5.6	<b>Openings</b> —Holes or slots that extend entirely through a wall section of any rigid material less than 0.375 in. (9.53 mm) thick and admit a 0.210 in. (5.33 mm) diameter rod shall also admit a 0.375 in. (9.53 mm) diameter rod. Holes or slots that are between 0.210 in. (5.33 mm) and 0.375 in. (9.53 mm) and have a wall thickness less than 0.375 in. (9.53 mm), but are limited in depth to 0.375 in. (9.53 mm) maximum by another rigid surface shall be permissible (see Fig. 2). The product shall be evaluated in all manufacturers’ recommended use positions.	Complied	P
5.7	<b>Exposed Coil Springs</b> —Any exposed coil spring which is accessible to the occupant, having or capable of generating a space between coils of 0.210 in. (5.33 mm) or greater during static load testing (see 7.3) shall be covered or otherwise designed to prevent injury.	-	N/A
5.8	<b>Locking and Latching</b> —Any frame child carrier that folds, for storage or transport, shall have a latching or locking device or other provision in the design that will prevent the unit from unintentionally folding when properly placed in the manufacturer’s recommended use position. The unit shall remain in its manufacturer’s recommended use position during and upon completion of the test in accordance with 7.10. If a unit is designed with a latching or locking device, that device shall remain engaged and operative after testing. <i>NOTE 1—This requirement does not apply to the carrier kickstand.</i>	Complied	P
5.9	<b>Unintentional Folding</b> —If the frame child carrier is designed to allow it to stand freely in the upright position, the carrier shall remain in the manufacturer’s recommended use position before and after completion of all tests in 7.11.	Complied	P



Clause	Requirement	Result	Verdict
5.10	<b>Labeling</b> —Warning labels (whether paper or non-paper) shall be permanent when tested in accordance with 7.7, 7.8, and 7.9.	Complied	P
5.10.1	Warning statements applied directly onto the surface of the product by hot stamping, heat transfer, printing, wood burning, and so forth shall be permanent when tested in accordance with 7.8.	-	N/A
5.10.2	Non-paper labels shall not liberate small parts when tested in accordance with 7.9.	Complied	P
5.11	<b>Protective Components</b> —If a child can grasp components between the thumb and forefinger or teeth (such as caps, sleeves, or plugs used for protection from sharp edges, points, or entrapment of fingers or toes), or if there is at least a 0.040in. (1.00 mm) gap between the component and its adjacent parent component, such component shall not be removed when tested in accordance with 7.12.	-	N/A
5.12	There shall be no flammable solids as defined in 16 CFR 1500.3 (c) (6) (vi) before or after testing in accordance with this specification.	Complied	P
5.13	<b>Toys</b> —Toy accessories attached to, removable from, or sold with a child frame carrier, as well as their means of attachment, must meet applicable requirements of Consumer Safety Specification F963.	-	N/A
<b>6</b>	<b>Performance Requirements</b>		
6.1	<b>Leg Openings</b> —Leg openings shall not permit the passage of the Leg Opening Test Sphere when tested in accordance with 7.1.	Complied	P
6.2	<b>Dynamic Strength</b> —The carrier shall not create a hazardous condition, such as frame or fasteners breaking or disengaging or seams separating, when tested in accordance with 7.2. Adjustable elements in the occupant retention system shall not slip more than 1 in. (25.4 mm) per strap as a result of the dynamic testing in accordance with 7.2.	Complied	P
6.3	<b>Static Load</b> —The carrier shall not create a hazardous condition, such as not supporting the test weight, frame or fasteners breaking or disengaging, or seams separating, when tested in accordance with 7.3. Adjustable elements in the occupant retention system shall not slip more than 1 in. (25.4mm) when tested in accordance with 7.3.	Complied	P
6.4	<b>Stability</b> —If the frame child carrier is designed to allow it to stand freely in the upright position, the frame child carrier shall not tip over when tested in accordance with 7.4.	Complied	P
6.5	<b>Retention System:</b>		
6.5.1	A retention system, including a shoulder restraint, shall be provided to secure the occupant in a seated position in any of the manufacturer’s recommended use positions.	Complied	P
6.5.2	Before shipment, the manufacturer shall attach the retention system in such a manner that it will not detach in normal usage.	Complied	P

Clause	Requirement	Result	Verdict
6.5.3	If the retention system includes a crotch restraint designed to work with a lap belt, it shall be designed such that its use is mandatory when the retention system is in use.	Complied	P
6.5.4	When tested in accordance with 7.5, the restraint system and its closing means (for example, a buckle) shall not break, disengage, or separate at any seam and all fasteners shall not release or suffer damage that impairs the operation and function of the restraint system. At the end of the tests, the CAMI dummy shall not be released fully or fall out of the carrier.	Complied	P
6.6	<b>Handle Integrity</b> —The carrier shall not create a hazardous condition such as handle or frame breaking or disengaging or seams separating when tested in accordance with 7.6.	Complied	P
8	<b>Marking and Labeling</b>	Complied	P
9	<b>Instructional Literature</b>	Complied	P

Abbreviation: P = Pass; N/A = Not Applicable.

1.1 Total Lead Content -16 CFR Part 1303, Lead of Paint

Test with reference to CPSC-CH-E1003-09.1 and determination by ICP-OES/ICP-MS.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001+002+003	mg/kg	10	90	14	Pass
004+005	mg/kg	10	90	<10.0	Pass
027	mg/kg	10	90	18	Pass

**2. Total Lead Content Test in paint/similar surface coating material in accordance with Consumer Product Safety Improvement Act of 2008 Section 101**

Test with reference to CPSC-CH-E1003-09.1 and determination by ICP-OES/ICP-MS.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001+002+003	mg/kg	10	90	14	Pass
004+005	mg/kg	10	90	<10.0	Pass
027	mg/kg	10	90	18	Pass

**3. Total Lead Content Test in accessible substrate materials in accordance with Consumer Product Safety Improvement Act of 2008 Section 101**

Test with reference to CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3, determination by ICP-OES/ICP-MS.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
006+007+008	mg/kg	10	100	<10.0	Pass
009	mg/kg	10	100	<10.0	Pass
010+011+012	mg/kg	10	100	<10.0	Pass
013+014+015	mg/kg	10	100	<10.0	Pass
016	mg/kg	10	100	<10.0	Pass
017+018	mg/kg	10	100	<10.0	Pass
019	mg/kg	10	100	<10.0	Pass
020	mg/kg	10	100	<10.0	Pass
021	mg/kg	10	100	15	Pass
022	mg/kg	10	100	<10.0	Pass
023	mg/kg	10	100	13	Pass
024	mg/kg	10	100	<10.0	Pass
025+026	mg/kg	10	100	<10.0	Pass
028	mg/kg	10	100	<10.0	Pass

4. 16 CFR Part 1307 amending CPSIA section 108, Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates

Test with reference to in-house method, determination by GC-MS.

Compound	CAS No.	Unit	MDL	Limit	Result(s)	
					001+002+003	004+005
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Compound	CAS No.	Unit	MDL	Limit	Result(s)	
					006+007+008	009
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>



# Test Report

No.: 70.452.21.12618.01

Date: 2022-07-25



Compound	CAS No.	Unit	MDL	Limit	Result(s)	
					010+011+012	013+014+015
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Compound	CAS No.	Unit	MDL	Limit	Result(s)	
					016	017+018
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

# Test Report

No.: 70.452.21.12618.01

Date: 2022-07-25



Compound	CAS No.	Unit	MDL	Limit	Result(s)
					019
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005
<b>Conclusion</b>					<b>Pass</b>

Compound	CAS No.	Unit	MDL	Limit	Result(s)	
					024	025+026
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

**Test Report****No.: 70.452.21.12618.01****Date: 2022-07-25**

Compound	CAS No.	Unit	MDL	Limit	Result(s)	
					027	028
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

-End of Test Report-

