

# Test Report

No.: 68.431.23.1055.01R1

Date: 2023-01-18



Greater China

**Applicant:** Spector & Co  
**Address:** /  
**Product Name:** Wireless 2.4GHz plastic mouse  
**Product Type/ End use:** Technology  
**Item No.:** T142  
**Style No.:** RONAN  
**Supplier:** USU019  
**Country of Origin:** CHINA  
**Country of Destination:** CANADA & U.S.A.  
**Receipt Date of Sample:** 2023-01-05  
**Date of Testing:** From 2023-01-05 to 2023-01-13  
**Sample Submitted:** The sample(s) was (were) submitted by applicant and identified.  
**Test Result:** Refer to the data listed in following pages

## Test Item

Test Item	Conclusion
1. US California Proposition 65 - Total Cadmium Content Test - Substrate Materials	Pass*
2. US California Proposition 65 - Total Lead Content Test - Substrate Materials	Pass*
3. Phthalates Content (11P)	Pass*
4. Tungsten Content Test	Report As Is
5. Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test	Pass
6. Total Nickel Content Test	Report As Is
7. U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)	Pass
8. US California Proposition 65 - Phthalates Content (6P)	Pass*
9. Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)	Pass*

Remarks: 1. MDL = Method Detection Limit  
2. N.D. = Not Detected (<MDL)  
3. ≤ Less than  
4. 1 mg/kg = 1 ppm = 0.0001%  
5. NA=Not Applicable  
6. This report supersedes previous report 68.431.23.1055.01 issued on 2023-01-13. As per client's request, revised the product name on page 1.

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

Prepared by:

Authorized by:



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**Note:**

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- (4) If relevant standards do not specify decision rule(s), follow decision rule as below:  
- "Pass" means that the measured result is within the limits, even when extended by expanded uncertainty at a level of confidence of 95%.  
- "Fail" means that the measured result is beyond the limit, even when extended by expanded uncertainty at a level of confidence of 95%.
- (5) The test item and sample were specified by the client.
- (6) "\*" denotes the conclusion was drawn according to the client's specification.

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Description of Tested Subject:

Sample	Description	Photo
A	Whole product	
001	Black synthetic leather w/ black fabric backing (Surface)	
002	Brown synthetic leather w/ brown fabric backing (Surface)	
003	Bright silver metal film (Mouse)	
004	Matt-black plastic (Upper part of mouse)	
005	Black soft plastic (Idler wheel)	

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Sample	Description	Photo
006	Bright black plastic (Lower part of mouse & USB plug)	
007	Black plastic (Switch)	
008	Transparent plastic (Part)	
009	Vivid black plastic sheet w/ adhesive backing (Part)	

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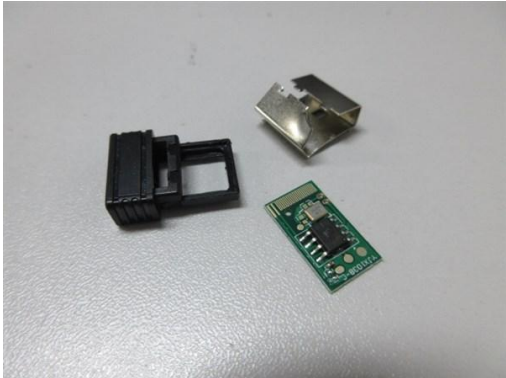


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Sample	Description	Photo
010	Silver color metal (Metal house of USB plug)	
012	Silver color metal spring (Battery box)	
013	Silver color metal sheet (Battery box)	
014	Dark brown PCB w/ green/ white printing (PCB board)	
015	Red soft plastic (Wire jacket)	
016	Black soft plastic (Wire jacket)	

T. No	Sample	Description
T1	001	Black synthetic leather w/ black fabric backing (Surface)
T2	002	Brown synthetic leather w/ brown fabric backing (Surface)
T3	003	Bright silver metal film (Mouse)
T4	004	Matt-black plastic (Upper part of mouse)
T5	005	Black soft plastic (Idler wheel)
T6	006	Bright black plastic (Lower part of mouse & USB plug)
T7	007	Black plastic (Switch)

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T. No	Sample	Description
T8	008	Transparent plastic (Part)
T9	009	Vivid black plastic sheet w/ adhesive backing (Part)
T10	010	Silver color metal (Metal house of USB plug)
T11	012	Silver color metal spring (Battery box)
T12	013	Silver color metal sheet (Battery box)



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## Test Result(s):

## 1. US California Proposition 65 - Total Cadmium Content Test - Substrate Materials

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
001+002	mg/kg	10	75	N.D.	Pass
003	mg/kg	10	75	N.D.	Pass
004+005+006	mg/kg	10	75	N.D.	Pass
007+008+009	mg/kg	10	75	N.D.	Pass
010	mg/kg	10	75	N.D.	Pass
012	mg/kg	10	75	N.D.	Pass
013	mg/kg	10	75	N.D.	Pass

## 2. US California Proposition 65 - Total Lead Content Test - Substrate Materials

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
001+002	mg/kg	10	100	N.D.	Pass
003	mg/kg	10	100	N.D.	Pass
004+005+006	mg/kg	10	100	N.D.	Pass
007+008+009	mg/kg	10	100	N.D.	Pass
010	mg/kg	10	100	N.D.	Pass
012	mg/kg	10	100	N.D.	Pass
013	mg/kg	10	100	N.D.	Pass

## 3. Phthalates Content (11P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					001+002	004+005+006
Diethyl phthalate(DEP)	84-66-2	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Di-n-octyl phthalate,	117-84-0	%	0.005	0.1	N.D.	N.D.

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(DNOP)						
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)
					007+008+009
Diethyl phthalate(DEP)	84-66-2	%	0.005	0.1	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.
<b>Conclusion</b>					<b>Pass</b>

## 4. Tungsten Content Test

Test with reference to acid digestion and determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Test items	Unit	MDL	Maximum Permissible Limit	Result(s)
				010
Tungsten(W)	mg/kg	10.0	-	N.D.
<b>Conclusion</b>				<b>Report As Is</b>

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### 5. Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001+002	mg/kg	10	90	N.D.	Pass
003	mg/kg	10	90	N.D.	Pass
004+005+006	mg/kg	10	90	N.D.	Pass
007+008+009	mg/kg	10	90	N.D.	Pass
010	mg/kg	10	90	N.D.	Pass
012	mg/kg	10	90	N.D.	Pass
013	mg/kg	10	90	N.D.	Pass

### 6. Total Nickel Content Test

Test with reference to acid digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
003	mg/kg	5	-	98202.696	Report As Is
010	mg/kg	5	-	5454.432	Report As Is
012	mg/kg	5	-	4143.141	Report As Is
013	mg/kg	5	-	5491.159	Report As Is

### 7. U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					001+002	004+005+006
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					007+008+009
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.
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Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.
<b>Conclusion</b>					<b>Pass</b>

## 8. US California Proposition 65 - Phthalates Content (6P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					001+002	004+005+006
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DNHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)
					007+008+009
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Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.
Di-n-hexyl phthalate (DNHP)	84-75-3	%	0.005	0.1	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.
<b>Conclusion</b>					<b>Pass</b>

## 9. Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)

Test with reference to in- house method, determination by LC-MS/LC-MC-MS.

Compound	CAS No.	Unit	MDL	Client's Limit	Result	
					001	002
Perfluorooctanesulphonic acid 1H,1H,2H,2H (H4PFOS; 6:2)	27619-97-2	mg/kg	0.025	<0.025	N.D.	N.D.
Perfluorooctanoic acid (PFOA)	335-67-1	mg/kg	0.025	<0.025	N.D.	N.D.
Ammonium Pentadecafluorooctanoate (APFO)*	3825-26-1	mg/kg	0.025	<0.025	N.D.	N.D.
Sodium perfluorooctanoate(Na-PFO)*	335-95-5	mg/kg	0.025	<0.025	N.D.	N.D.
Potassium perfluorooctanoate(K-PFO)*	2395-00-8	mg/kg	0.025	<0.025	N.D.	N.D.
Silver perfluorooctanoate(Ag-PFO)*	335-93-3	mg/kg	0.025	<0.025	N.D.	N.D.
Perfluorooctanoyl fluoride(F-PFO)*	335-66-0	mg/kg	0.025	<0.025	N.D.	N.D.
Perfluorooctansulfonate (PFOS)	1763-23-1	mg/kg	0.025	<0.025	N.D.	N.D.
Perfluorooctane sulphonamide(PFOSA)	754-91-6	mg/kg	0.025	<0.025	N.D.	N.D.
perfluoro-1-octanesulfonyl fluoride (POSF/PFOF)*	307-35-7	mg/kg	0.025	<0.025	N.D.	N.D.
Potassium perfluorooctanesulphonate(PFOS-K)*	2795-39-3	mg/kg	0.025	<0.025	N.D.	N.D.
Ammonium perfluorooctanesulphonate(PFOS-NH4)*	29081-56-9	mg/kg	0.025	<0.025	N.D.	N.D.
Didecyl(dimethyl)azanium;1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8-heptadecafluorooctane-1-sulfonate(PFOS-DDA)*	251099-16-8	mg/kg	0.025	<0.025	N.D.	N.D.
Perfluoro-1-octanesulfonic acid, diethanolamine salt(PFOS-NH(OH)2)*	70225-14-8	mg/kg	0.025	<0.025	N.D.	N.D.
Lithium perfluorooctylsulfonate(PFOS-Li)*	29457-72-5	mg/kg	0.025	<0.025	N.D.	N.D.
Heptadecafluorooctanesulfonic acid tetraethylammonium salt(PFOS-N(C2H5)4)*	56773-42-3	mg/kg	0.025	<0.025	N.D.	N.D.
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	mg/kg	0.5	<0.5	N.D.	N.D.
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	mg/kg	0.5	<0.5	N.D.	N.D.
Sodium Perfluoro-1-octanesulfonate(PFOS-Na)*	4021-47-0	mg/kg	0.025	<0.025	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Note “\*” denotes the result of the substances are converted according to the corresponding compounds

-End of Test Report-

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