

Test Report

No.: T52110230571TY

Date: JUN 25, 2021

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BIONIWINGS (SHENZHEN) TECHNOLOGY CO., LTD.

201 OF NO.1 FACTORY, 32ND OF FIRST HUIMIN ROAD,
GUIHUA COMMUNITY, GUANLAN BLVD, LONGHUA DISTRICT,
SHENZHEN, GUANGDONG, P.R.CHINA

The following samples were submitted and identified by/on behalf of the client as:

BIONIC FLAPPING-WING BIRD
WIRELESS REMOTE CONTROLLER

Item No. : PRODUCT: GO GO BIRD 102, GO GO BIRD 103,
GO GO BIRD 201, GO GO BIRD 202, GO GO BIRD 203,
GO GO BIRD 301, GO GO BIRD 302, GO GO BIRD 303,
GO GO BIRD 401, GO GO BIRD 402, GO GO BIRD 403,
GO GO BIRD 501, GO GO BIRD 502, GO GO BIRD 503,
GO GO BIRD 601, GO GO BIRD 602, GO GO BIRD 603,
GO GO BIRD 701, GO GO BIRD 702, GO GO BIRD 703,
GO GO BIRD 801, GO GO BIRD 802, GO GO BIRD 803,
GO GO BIRD 101, GO GO BIRD 001, RC300, RC120,
REMOTE: FYC 102, FYC 103, FYC 201, FYC 202,
FYC 203, FYC 301, FYC 302, FYC 303, FYC 401,
FYC 402, FYC 403, FYC 501, FYC 502, FYC 503,
FYC 601, FYC 602, FYC 603, FYC 701, FYC 702,
FYC 703, FYC 801, FYC 802, FYC 803, FYC 101,
FYC 001

P.O. / Ref. No. : PRODUCT: GO GO BIRD 001 REMOTE: FYC 001

Importer : MULTIPLE...

Buyer : MULTIPLE...

Supplier : BIONIWINGS (SHENZHEN) TECHNOLOGY CO., LTD.

Manufacturer : BIONIWINGS (SHENZHEN) TECHNOLOGY CO., LTD.

Country of Origin : CHINA

Country of Destination : AU,NZ, US, UK, EU, CA

Labeled Age Grading : AGES 8+

Requested Age Grading : 8+



SGS-CSTC Shenzhen Branch
Shenzhen Branch Testing Center Handlines

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Age Group Assessed by SGS As Per Age : OVER 8 YEARS
 Guideline
 Age Group Applied in Testing : OVER 8 YEARS
 Sample Receiving Date : FEB 09, 2021
 Last Submission Sample Date : JUN 22, 2021
 Further Information Date : JUN 23, 2021
 Testing Period : FEB 09, 2021 TO JUN 25, 2021

Test Requested		Conclusion
1.	For compliance with the test requirement of ASTM F963-17 Standard Consumer Safety Specification on Toy Safety.	--
	ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	PASS
2.	For compliance with test requirement of the Physical & Mechanical, Flammability test requirement of Title 16, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A	--
	Physical and mechanical tests consisting US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 and US CPSC 16 CFR 1501: <ul style="list-style-type: none"> - US CPSC 16 CFR 1500.48 – Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of ages - US CPSC 16 CFR 1500.49 – Technical requirements for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age - US CPSC 16 CFR 1501 – Method for identifying toys and other articles intended for use by children under 3 years of age which present choking, aspiration, or ingestion hazards because of small parts 	NOT APPLICABLE
	US CPSC 16 CFR 1500.44 – Method for determining extremely flammable and flammable solids	PASS
3.	Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A. - Part 1303 - Ban of Lead - Containing Paint and Certain Consumer Products Bearing Lead - Containing Paint – Lead Content	PASS



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Test Requested		Conclusion
4.	Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.	SEE RESULT PAGE
5.	CPSIA section 101 - Total Lead content	--
	CPSIA section 101(f) (1) – Lead in paint/similar surface coating material	PASS
	CPSIA section 101(a) (2) – Lead in accessible substrate materials (Including Children's Metal Jewelry)	PASS
6.	US 16 CFR Part 1307 – Phthalates	PASS
7.	US Public Law 104-142 (1996) Title II – Mercury-Containing Battery Management Act – Mercury Content	PASS
8.	US Model Toxics in Packaging Legislation (TPCH: Toxics in Packaging Clearing House) (formerly drafted by CONEG) – Total Lead, Cadmium, Mercury and Hexavalent Chromium content	PASS
9.	Public Act 097-0612 of the US State of Illinois, the Lead Poisoning Prevention Act – Lead in surface coating materials of painted toy / children's jewelry / childcare article	PASS



Test Requested		Conclusion
10.	US California Proposition 65 (ACSC Case No. RG-07-356892 & Out-of-court Settlement for USB Cords) – Lead Content	PASS
11.	US California Proposition 65 (County of Sacramento Case No. 34-2008-00003278 & Out-of-court Settlement for USB Cables) – Phthalates Content	PASS
12.	California Proposition 65 requirement - Out-of-court Settlement for USB Cords under the United States California State Proposition 65 – available Lead by wipe test	PASS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
 SGS-CSTC Standards Technical
 Services Co., Ltd. Shenzhen Branch Testing Center



Liu Junjie, Tony
 Section Manager



Qu Ping, Kiky
 Dept. Manager



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Results:

ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY

AS SPECIFIED IN ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	Safety Requirements	
4.1	Material Quality **	<u>Pass</u>
4.2	Flammability Test	<u>Pass</u> <u>(See Result Page)</u>
4.3	Toxicology	
4.3.5	Heavy Elements	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials	<u>Pass</u> <u>(See Result Page)</u>
4.3.5.2	Heavy Metal in Substrate Materials	<u>Pass</u> <u>(See Result Page)</u>
4.6.1	Small Objects	<u>N/A</u>
4.6.2	Mouth-Actuated Toys	<u>N/A</u>
4.6.3	Labelling Requirements	<u>N/A</u>
4.7	Accessible Edges	<u>Pass</u>
4.9	Accessible Points	<u>Pass</u>
4.11	Nails and Fasteners	<u>Pass</u>
4.25	Battery-Operated Toys (Rechargeable battery/Non-rechargeable battery)	<u>Pass</u>
4.38	Magnets	<u>Pass</u>
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	<u>Pass</u>
5.15	Battery-Operated Toys	<u>Pass</u>
5.16	Promotional Materials	<u>Pass</u>
6	Instructional Literature	
6.5	Battery-Operated Toys	<u>Pass</u>
7	Producer's Markings	
7.1	Producer's Markings	<u>Pass</u>
8.5	Normal Use Testing	<u>Pass</u>

N/A = Not Applicable

** Visual Examination



Result Page:

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample

BIONIC FLAPPING-WING BIRD
WIRELESS REMOTE CONTROLLER

Burning Rate (inch/sec)

0.1*

*Burning rate has been rounded to the nearest one tenth of an inch per second.

Requirement: A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

ASTM F963-17, Clause 4.3.5.1 – Heavy Elements in Paint/Similar Surface Coating Materials

Method: With reference to CPSC-CH-E1003-09.1

Method: With reference to ASTM F963-17 Clause 8.3

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Total Lead Content

Test Item(s)	Lead (Pb)		
MDL (ppm)	10		
Total Limit (ppm)	90		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. White w/ multi-color coating on plastic film (Wing, tail) w/ Black coating on plastic sheet (Rudder) w/ Dark grey coating on plastic sheet (Rudder) w/ Grey coating on plastic sheet (Rudder) w/ White coating on plastic sheet (Rudder)	6	1	ND
2. Blue w/ multi-color coating on plastic film (Wing, tail) w/ Multi-color coating on plastic sheet (Pattern)	03T-2	1	ND
3. Red w/ multi-color coating on plastic film (Wing, tail) w/ Matt-black w/ off-white coating on plastic sheet (Pattern) w/ Yellow w/ orange coating on plastic sheet (Pattern)	07T-1	1	ND



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Soluble Heavy Metal Content

Test Item(s)				Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (ppm)				5	5	2.5	10	5	5	5	10
Migration Limit (ppm)				90	60	25	1000	75	60	60	500
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)							
1	15	1	99.9	ND	ND	ND	ND	ND	ND	ND	ND
2	03T-1	4	/	ND	ND	ND	245	ND	ND	ND	ND
3	07T-3	1	/	ND	ND	ND	163	ND	7	ND	ND
4	07T-3	2	40.3	ND	ND	ND	ND	ND	ND	ND	ND
5	07T-3	6	17.3	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. White w/ multi-color coating on plastic film (Wing, tail)
2. Blue w/ multi-color coating on plastic film (Wing, tail)
3. Red w/ multi-color coating on plastic film (Wing, tail)
4. Matt-black w/ off-white coating on plastic sheet (Pattern)
5. Yellow w/ orange coating on plastic sheet (Pattern)

- Note:
- ppm = parts per million
 - 1% = 10000 mg/kg = 10000 ppm = 10000 µg/g
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - Migration results of eight elements shown are of the adjusted analytical results
 - For Soluble Heavy Metal Content: The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.

Remark: As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for certain migration elements, as specified in ASTM F963-17 Clause 8.3.3.6 (2) – Selection of Test Portions

- Black coating on plastic sheet (Rudder)
- Dark grey coating on plastic sheet (Rudder)
- Grey coating on plastic sheet (Rudder)
- White coating on plastic sheet (Rudder)
- Multi-color coating on plastic sheet (Pattern)



ASTM F963-17, Clause 4.3.5.2 – Heavy Elements in Substrate Materials

Method (non-metallic materials): With reference to CPSC-CH-E1002-08.3

Method (metal materials): With reference to CPSC-CH-E1001-08.3

Method: With reference to ASTM F963-17 Clause 8.3

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Total Lead Content

Test Item(s)	Lead (Pb)		
MDL (ppm)	10		
Total Limit (ppm)	100		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Transparent plastic film (Wing, tail) w/ Transparent plastic sheet (Washer) w/ Transparent dry glue (Wing, tail)	9	1	ND
2. Translucent plastic sheet (Rudder) + White plastic label w/ multi-color printing (Sticker) + Transparent adhesive plastic tape (Wing)	9	2	ND
3. Red plastic (Remote control) w/ Black plastic (Switch) + Black plastic (Remote control)	9	3	ND
4. Black plastic (Tail) + Black plastic (Connector) + Black plastic (Shaft)	9	4	ND
5. Black plastic (Gear) + Black plastic (Body)	9	5	ND
6. Red silicone rubber (Mouth)	12	1	ND
7. Silvery metal piece (Socket)	20	1	20
8. Copper metal wire (Body)	20	2	17
9. Silvery metal shaft (Body)	20	3	ND
10. Translucent blue plastic (Body) + Blue plastic (Tail) w/ Dark blue plastic (Connector)	03T-3	1	ND
11. Black silicone rubber (Mouth) + Black printed white plastic label (Sticker) + Off-white plastic label w/ multi-color printing (Sticker)	03T-4	1	ND
12. Light red silicone rubber (Antenna) + Bright white plastic label w/ multi-color printing (Sticker) + Orange plastic (Body)	07T-2	1	ND



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Soluble Heavy Metal Content

Test Item(s)				Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (ppm)				5	5	2.5	10	5	5	5	10
Migration Limit (ppm) -- Other Than Modeling Clays				90	60	25	1000	75	60	60	500
Migration Limit (ppm) -- Modeling Clays				90	60	25	250	50	25	25	500
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)							
1	15	6	/	ND	ND	ND	ND	ND	ND	ND	ND
2	15	7	99.2	ND	ND	ND	ND	ND	ND	ND	ND
3	15	8	20.8	ND	ND	ND	ND	ND	ND	ND	ND
4	15	9	47.3	ND	ND	ND	ND	ND	ND	ND	ND
5	15	10	15.2	ND	ND	ND	ND	ND	ND	ND	ND
6	15	11	37.5	ND	ND	ND	ND	ND	ND	ND	ND
7	15	12	/	ND	ND	ND	ND	ND	ND	ND	ND
8	15	13	/	ND	ND	ND	ND	ND	ND	ND	ND
9	15	14	/	ND	ND	ND	ND	ND	ND	ND	ND
10	15	15	/	ND	ND	ND	ND	ND	ND	ND	ND
11	15	16	/	ND	ND	ND	ND	ND	ND	ND	ND
12	15	17	/	ND	ND	ND	ND	ND	ND	ND	ND
13	15	18	/	ND	ND	ND	ND	ND	ND	ND	ND
14	03T-1	1	/	ND	ND	ND	ND	ND	ND	ND	ND
15	03T-1	2	75.9	ND	ND	ND	ND	ND	ND	ND	ND
16	03T-1	3	/	ND	ND	ND	ND	ND	ND	ND	ND
17	03T-1	5	20.4	ND	ND	ND	ND	ND	ND	ND	ND
18	03T-1	6	/	ND	ND	ND	ND	ND	ND	ND	ND
19	03T-1	7	/	ND	ND	ND	ND	ND	ND	ND	ND
20	07T-3	3	/	ND	ND	ND	ND	ND	ND	ND	ND
21	07T-3	4	21.3	ND	ND	ND	ND	ND	ND	ND	ND
22	07T-3	5	/	ND	ND	ND	ND	ND	ND	ND	ND



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Specimen Description:

1. Transparent plastic film (Wing, tail)
2. Translucent plastic sheet (Rudder)
3. White plastic label w/ multi-color printing (Sticker)
4. Transparent adhesive plastic tape (Wing)
5. Transparent plastic sheet (Washer)
6. Red silicone rubber (Mouth)
7. Red plastic (Remote control)
8. Black plastic (Remote control)
9. Black plastic (Body)
10. Black plastic (Tail)
11. Black plastic (Connector)
12. Black plastic (Shaft)
13. Black plastic (Gear)
14. Black silicone rubber (Mouth)
15. Black printed white plastic label (Sticker)
16. Translucent blue plastic (Body)
17. Off-white plastic label w/ multi-color printing (Sticker)
18. Blue plastic (Tail)
19. Dark blue plastic (Connector)
20. Light red silicone rubber (Antenna)
21. Bright white plastic label w/ multi-color printing (Sticker)
22. Orange plastic (Body)



Test Report

No.: T52110230571TY

Date: JUN 25, 2021

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- Note:
- ppm = parts per million
 - 1% = 10000 mg/kg = 10000 ppm = 10000 µg/g
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - Migration results of eight elements shown are of the adjusted analytical results
 - For Soluble Heavy Metal Content & Total Lead Content in composite: The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.
 - The result(s) is (are) calculated using the minimum specimen weight for composite test.

Remark: As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for certain migration elements, as specified in ASTM F963-17 Clause 8.3.5.3 (2) – Selection of Test Portions

Black plastic (Switch)

Transparent dry glue (Wing, tail)

US CPSC

PHYSICAL AND MECHANICAL TESTS CONSISTING US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND US CPSC 16 CFR 1501

AS SPECIFIED IN PHYSICAL AND MECHANICAL TESTS CONSISTING US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND US CPSC 16 CFR 1501

	No. of sample tested	Sharp point (16 CFR 1500.48)	Sharp edge (16 CFR 1500.49)	Small part (16 CFR 1501)
As received	3	N/A	N/A	N/A
Impact test (16 CFR 1500.53b)	0	N/A	N/A	N/A
Bite test (16 CFR 1500.52c)	0	N/A	N/A	N/A
Flexure test (16 CFR 1500.53d)	0	N/A	N/A	N/A
Torque test (16 CFR 1500.53e)	0	N/A	N/A	N/A
Tension test (16 CFR 1500.53f)	0	N/A	N/A	N/A
Compression test (16 CFR 1500.53g)	0	N/A	N/A	N/A

N/A = Not Applicable



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US CPSC 16 CFR 1500.44 – METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE SOLIDS

AS SPECIFIED IN US CPSC 16 CFR 1500.44 – METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE SOLIDS

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>
BIONIC FLAPPING-WING BIRD	0.1*
WIRELESS REMOTE CONTROLLER	

*Burning rate has been rounded to the nearest one tenth of an inch per second.

Requirement: A toy / component is considered a “flammable solid” if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

CPSC 16 CFR 1303 - Lead in Paint/Similar Surface Coating Materials

Method: With reference to CPSC-CH-E1003-09.1 - Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings

Test Item(s)			Lead (Pb)
Permissible Limit (ppm)			90
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. White w/ multi-color coating on plastic film (Wing, tail) w/ Black coating on plastic sheet (Rudder) w/ Dark grey coating on plastic sheet (Rudder) w/ Grey coating on plastic sheet (Rudder) w/ White coating on plastic sheet (Rudder)	4	1	ND
2. Blue w/ multi-color coating on plastic film (Wing, tail) w/ Multi-color coating on plastic sheet (Pattern)	03T-5	1	ND
3. Red w/ multi-color coating on plastic film (Wing, tail) w/ Matt-black w/ off-white coating on plastic sheet (Pattern) w/ Yellow w/ orange coating on plastic sheet (Pattern)	07T-4	1	ND

- Note:
- ppm = parts per million
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit = 10 ppm
 - 1% = 10000 mg/kg = 10000 ppm



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As specified in Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.

- Tracking label found on the packaging: [For R/C Grey Bird set]

- 1) Name: Bioniwings (shenzhen) Technology Co., Ltd.
- 2) Location: 201 of No.1 Factory, 32nd of First Huimin Road, Guihua Community, Guanlan Blvd, Longhua District, Shenzhen, Guangdong Province, China
- 3) Date: 2011120040000057
- 4) Cohort information: 2011120040000057

- Tracking label found on the packaging: [For R/C Blue Bird set & R/C Butterfly set]

- 1) Name: ZING GLOBAL LTD.
- 2) Location: PO Box 98926 TST, Hong Kong, MADE IN CHINA
- 3) Date: 2023721060000965, 06/21
- 4) Cohort information: 2023721060000965, 06/21

- Tracking label found on the product: [For R/C Grey Bird set]

- 1) Name: Bioniwings (shenzhen) Technology Co., Ltd.
- 2) Location: Made in Shenzhen, China
- 3) Date: Mar. 2021
- 4) Cohort information: Mar. 2021

- Tracking label found on the product: [For R/C Blue Bird set & R/C Butterfly set]

- 1) Name: Bioniwings (shenzhen) Technology Co., Ltd.
- 2) Location: Made in Shenzhen, China
- 3) Date: Jun. 2021
- 4) Cohort information: Jun. 2021

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



CPSIA - Lead in Paint/Similar Surface Coating Materials

Method: With reference to CPSC-CH-E1003-09.1 - Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings

Test Item(s)			Lead (Pb)
Permissible Limit (ppm)			90
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. White w/ multi-color coating on plastic film (Wing, tail) w/ Black coating on plastic sheet (Rudder) w/ Dark grey coating on plastic sheet (Rudder) w/ Grey coating on plastic sheet (Rudder) w/ White coating on plastic sheet (Rudder)	2	1	ND
2. Blue w/ multi-color coating on plastic film (Wing, tail) w/ Multi-color coating on plastic sheet (Pattern)	03T-6	1	ND
3. Red w/ multi-color coating on plastic film (Wing, tail) w/ Matt-black w/ off-white coating on plastic sheet (Pattern) w/ Yellow w/ orange coating on plastic sheet (Pattern)	07T-5	1	ND

- Note:
- ppm = parts per million
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit = 10 ppm
 - 1% = 10000 mg/kg = 10000 ppm



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CPSIA - Lead in Accessible Substrate Materials

Method (non-metallic materials): With reference to CPSC-CH-E1002-08.3 - Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product

Method (metal materials): With reference to CPSC-CH-E1001-08.3 - Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry)

Test Item(s)			Lead (Pb)
Permissible Limit ** (ppm)			100
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Transparent plastic film (Wing, tail) w/ Transparent plastic sheet (Washer) w/ Transparent dry glue (Wing, tail)	8	1	ND
2. Translucent plastic sheet (Rudder) + White plastic label w/ multi-color printing (Sticker) + Transparent adhesive plastic tape (Wing)	8	2	ND
3. Red plastic (Remote control) w/ Black plastic (Switch) + Black plastic (Remote control)	8	3	ND
4. Black plastic (Tail) + Black plastic (Connector) + Black plastic (Shaft)	8	4	ND
5. Black plastic (Gear) + Black plastic (Body)	8	5	ND
6. White soft plastic (Plug) + White plastic (Cable jacket)	8	6	ND
7. Red silicone rubber (Mouth)	11	1	ND
8. Silvery metal piece (Socket)	19	1	20
9. Copper metal wire (Body)	19	2	17
10. Silvery metal shaft (Body)	19	3	ND
11. Translucent blue plastic (Body) + Blue plastic (Tail) w/ Dark blue plastic (Connector)	03T-7	1	ND
12. Black silicone rubber (Mouth) + Black printed white plastic label (Sticker) + Off-white plastic label w/ multi-color printing (Sticker)	03T-8	1	ND
13. Light red silicone rubber (Antenna) + Bright white plastic label w/ multi-color printing (Sticker) + Orange plastic (Body)	07T-6	1	ND

** Permissible Limit applies to a children's product manufactured after 14 August 2011 (Public Law 110-314 (Consumer Product Safety Improvement Act of 2008) and its Amendments Public Law 112-28)

- Note:
- ppm = parts per million
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit = 10 ppm
 - 1% = 10000 mg/kg = 10000 ppm
 - For composite test: The result(s) is (are) calculated using the minimum specimen weight and the decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.



US 16 CFR Part 1307 – Phthalates Content

Method: With reference to CPSC-CH-C1001-09.4

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	CAS No.	Result (s) (%)			MDL (%)	Permissible Limit (%)
		17	17	17		
Alias No.	--	17	17	17	MDL (%)	Permissible Limit (%)
Tracing No.	--	1	2	3		
Specimen No.	--	1	2	3		
Dibutyl Phthalate (DBP)	84-74-2	0.004	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	0.010	0.1
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Di-n-pentyl phthalate(DPP/DPEP/DPENP)	131-18-0	ND	ND	ND	0.003	0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	0.003	0.1

Test Item(s)	CAS No.	Result (s) (%)		MDL (%)	Permissible Limit (%)
		17	17		
Alias No.	--	17	17	MDL (%)	Permissible Limit (%)
Tracing No.	--	4	5		
Specimen No.	--	4	5		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	0.003	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	0.010	0.1
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.003	0.1
Di-n-pentyl phthalate(DPP/DPEP/DPENP)	131-18-0	ND	ND	0.003	0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	0.003	0.1



Test Item(s)	CAS No.	Result (s) (%)		MDL (%)	Permissible Limit (%)
Alias No.	--	17	17		
Tracing No.	--	6	7		
Specimen No.	--	6	7		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	0.003	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	0.010	0.1
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.003	0.1
Di-n-pentyl phthalate(DPP/DPEP/DPENP)	131-18-0	ND	ND	0.003	0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	0.003	0.1

Test Item(s)	CAS No.	Result (s) (%)			MDL (%)	Permissible Limit (%)
		03T-12	03T-12	03T-12		
Alias No.	--					
Tracing No.	--	1	2	3		
Specimen No.	--	8	9	10		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	0.010	0.1
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Di-n-pentyl phthalate(DPP/DPEP/DPENP)	131-18-0	ND	ND	ND	0.003	0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	0.003	0.1



Test Item(s)	CAS No.	Result (s) (%)			MDL (%)	Permissible Limit (%)
		07T-9	07T-9	07T-9		
Alias No.	--	07T-9	07T-9	07T-9		
Tracing No.	--	1	2	3		
Specimen No.	--	11	12	13		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	0.010	0.1
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Di-n-pentyl phthalate(DPP/DPEP/DPENP)	131-18-0	ND	ND	ND	0.003	0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	0.003	0.1



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Specimen Description:

1. White w/ multi-color coating on plastic film (Wing, tail) w/ Black coating on plastic sheet (Rudder) w/ Dark grey coating on plastic sheet (Rudder) w/ Grey coating on plastic sheet (Rudder) w/ White coating on plastic sheet (Rudder)
2. Transparent plastic film (Wing, tail) w/ Transparent plastic sheet (Washer) w/ Transparent dry glue (Wing, tail)
3. Translucent plastic sheet (Rudder) w/ Transparent adhesive plastic tape (Wing) w/ White plastic label w/ multi-color printing (Sticker)
4. Red silicone rubber (Mouth)
5. Red plastic (Remote control) w/ Black plastic (Switch) + Black plastic (Remote control)
6. Black plastic (Tail) + Black plastic (Connector) + Black plastic (Shaft)
7. Black plastic (Body) + Black plastic (Gear)
8. Black silicone rubber (Mouth) w/ Blue w/ multi-color coating on plastic film (Wing, tail) w/ Multi-color coating on plastic sheet (Pattern)
9. Black printed white plastic label (Sticker) + Off-white plastic label w/ multi-color printing (Sticker)
10. Translucent blue plastic (Body) + Blue plastic (Tail) w/ Dark blue plastic (Connector)
11. Red w/ multi-color coating on plastic film (Wing, tail) w/ Matt-black w/ off-white coating on plastic sheet (Pattern) w/ Yellow w/ orange coating on plastic sheet (Pattern)
12. Light red silicone rubber (Antenna) + Bright white plastic label w/ multi-color printing (Sticker)
13. Orange plastic (Body)

- Note:
- % = percentage by weight
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - 1% = 10000 mg/kg = 10000 ppm
 - The result(s) is (are) calculated using the total specimen weight for composite test.



US Public Law 104-142 (1996) Title II – Mercury-Containing Battery Management Act – Mercury Content

Method: IEC 62321-4:2013+AMD1:2017

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Direct Mercury Analyzer (DMA)

For Battery except Alkaline Manganese Button Cell

Test Item(s)			Mercury (Hg)
MDL (mg/kg)			1
Requirement (mg/kg)			Prohibited
Specimen Description	Alias No.	Tracing No.	Result(s) (mg/kg)
1. Battery (HW701419 3.7V 0.37wh)	23	1	ND

- Note:
- mg/kg = milligram per kilogram
 - ND = Not Detected (lower than MDL)
 - 1% = 10000 mg/kg = 10000 ppm



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US Model Toxics in Packaging Legislation (TPCH: Toxics in Packaging Clearing House) (formerly drafted by CONEG) – Total Lead, Cadmium, Mercury and Hexavalent Chromium content

Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC62321-7-1:2015
 Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Ultraviolet Visible Spectrophotometer (UV-Vis)

Test Item(s)			Pb	Cd	Hg	Cr(VI)	Total (Pb + Cd + Cr(VI)+ Hg)
MDL (mg/kg)			5	5	5	8	--
Permissible Limit (mg/kg)			--	--	--	--	100
Specimen No.	Alias No.	Tracing No.					
1	5	1	ND	ND	ND	ND#	ND
2	21	1	ND	ND	ND	ND	ND
3	01T-1	1	ND	ND	ND	ND#	ND
4	02T-1	1	ND	ND	ND	ND#	ND
5	05T-1	1	ND	ND	ND	ND#	ND

Specimen Description:

1. Multi-color coating on paper board (Box)
2. Silvery metal wire (Tie)
3. White surfaced brown corrugated paper board (Box)
4. White plastic (Tie) (Submitted on Apr 14, 2021)
5. Transparent plastic film (Box) + Translucent cream plastic (Tie)



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- Note:
- mg/kg = milligram per kilogram
 - 1% = 10000 mg/kg = 10000 ppm
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - Results shown as ND are ignored in the sum calculation
 - # = The result of Hexavalent chromium (Cr(VI)) is considered as "Not Detected" since the total chromium content determined by acid digestion is "Not Detected".
 - The TPCB legislation has been enacted by California, Connecticut, Florida, Georgia, Illinois, Iowa, Maine, Maryland, Minnesota, Missouri, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, Washington and Wisconsin.
 - The result(s) is (are) calculated using the minimum specimen weight for composite test

Public Act 097-0612 of the US State of Illinois, the Lead Poisoning Prevention Act - Lead in Surface Coating Materials of Painted Toy / Children's Jewelry / Childcare Article

Method (coating materials): With reference to CPSC-CH-E1003-09.1 - Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings

Test Item(s)	Lead (Pb)		
MDL (ppm)	10		
Permissible Limit (ppm)	90		
Warning Limit (ppm)	40 [#]		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. White w/ multi-color coating on plastic film (Wing, tail) w/ Black coating on plastic sheet (Rudder) w/ Dark grey coating on plastic sheet (Rudder) w/ Grey coating on plastic sheet (Rudder) w/ White coating on plastic sheet (Rudder)	3	1	ND
2. Blue w/ multi-color coating on plastic film (Wing, tail) w/ Multi-color coating on plastic sheet (Pattern)	04T-1	1	ND
3. Red w/ multi-color coating on plastic film (Wing, tail) w/ Matt-black w/ off-white coating on plastic sheet (Pattern) w/ Yellow w/ orange coating on plastic sheet (Pattern)	06T-1	1	ND



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- Note:
- ppm = parts per million
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - 1% = 10000 mg/kg = 10000 ppm
 - # = Effective 1 January, 2010, total Lead content in any surface coating materials of toy, children's jewelry and childcare article that is more than 40ppm but lower than 90ppm should bear the following warning statement on the product or the packaging to indicate the product contains Lead.

**WARNING: CONTAINS LEAD.
MAYBE HARMFUL IF EATEN OR CHEWED.
COMPLIES WITH FEDERAL STANDARDS.**

US California Proposition 65 – Total Lead Content

Method: With reference to CPSC-CH-E1003-09.1 - Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings

Method (non-metallic materials): With reference to CPSC-CH-E1002-08.3 - Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product

Method (metal materials): With reference to CPSC-CH-E1001-08.3 - Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry)

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Test Item(s)	Alias No.	Tracing No.	Lead (Pb) Result(s) (ppm)
1. White w/ multi-color coating on plastic film (Wing, tail) w/ Black coating on plastic sheet (Rudder) w/ Dark grey coating on plastic sheet (Rudder) w/ Grey coating on plastic sheet (Rudder) w/ White coating on plastic sheet (Rudder)	1	1	ND
2. Transparent plastic film (Wing, tail) w/ Transparent plastic sheet (Washer) w/ Transparent dry glue (Wing, tail)	7	1	ND
3. Translucent plastic sheet (Rudder) + White plastic label w/ multi-color printing (Sticker) + Transparent adhesive plastic tape (Wing)	7	2	ND
4. Red plastic (Remote control) w/ Black plastic (Switch) + Black plastic (Remote control)	7	3	ND
5. Black plastic (Tail) + Black plastic (Connector) + Black plastic (Shaft)	7	4	ND
6. Black plastic (Gear) + Black plastic (Body)	7	5	ND



Test Item(s)	Alias No.	Tracing No.	Lead (Pb) Result(s) (ppm)
7. White soft plastic (Plug) + White plastic (Cable jacket)	7	6	ND
8. Red silicone rubber (Mouth)	10	1	ND
9. Silvery metal piece (Socket)	18	1	20
10. Copper metal wire (Body)	18	2	17
11. Silvery metal shaft (Body)	18	3	ND
12. Blue w/ multi-color coating on plastic film (Wing, tail) w/ Multi-color coating on plastic sheet (Pattern)	03T-9	1	ND
13. Translucent blue plastic (Body) + Blue plastic (Tail) w/ Dark blue plastic (Connector)	03T-10	1	ND
14. Black silicone rubber (Mouth) + Black printed white plastic label (Sticker) + Off-white plastic label w/ multi-color printing (Sticker)	03T-11	1	ND
15. Red w/ multi-color coating on plastic film (Wing, tail) w/ Matt-black w/ off-white coating on plastic sheet (Pattern) w/ Yellow w/ orange coating on plastic sheet (Pattern)	07T-7	1	ND
16. Light red silicone rubber (Antenna) + Bright white plastic label w/ multi-color printing (Sticker) + Orange plastic (Body)	07T-8	1	ND

- Note:
- ppm = parts per million
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit =10 ppm
 - 1% = 10000mg/kg=10000ppm
 - For composite test: The result(s) is (are) calculated using the minimum specimen weight and the decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.

Remark: Summary of permissible limit(s) of Lead requirement:

Requirement(s)	Permissible Limit of Lead (ppm)	Effective Date	
California Proposition 65 (ACSC Case No. RG-07-356892)	Surface Coating	90	Current
	Accessible substrate	100	Current
California Proposition 65 (Out-of-court Settlement for USB Cords)	90 Otherwise warning	Current	



California Prop 65 - Phthalates Content

Method: With reference to CPSC-CH-C1001-09.4

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	CAS No.	Result(s) (%)			MDL (%)
Specimen No.	--	1	2	3	
Alias No.	--	16	16	16	
Tracing No.	--	1	2	3	
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003

Test Item(s)	CAS No.	Result(s) (%)			MDL (%)
Specimen No.	--	4	5	6	
Alias No.	--	16	16	16	
Tracing No.	--	4	5	6	
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003

Test Item(s)	CAS No.	Result(s) (%)		MDL (%)
Specimen No.	--	7	8	
Alias No.	--	16	16	
Tracing No.	--	7	10	
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	0.003

Test Item(s)	CAS No.	Result(s) (%)			MDL (%)
Specimen No.	--	9	10	11	
Alias No.	--	03T-13	03T-13	03T-13	
Tracing No.	--	1	2	3	
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003

Test Item(s)	CAS No.	Result(s) (%)			MDL (%)
Specimen No.	--	12	13	14	
Alias No.	--	07T-10	07T-10	07T-10	
Tracing No.	--	1	2	3	
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003



Specimen Description:

1. White w/ multi-color coating on plastic film (Wing, tail) w/ Black coating on plastic sheet (Rudder) w/ Dark grey coating on plastic sheet (Rudder) w/ Grey coating on plastic sheet (Rudder) w/ White coating on plastic sheet (Rudder)
2. Transparent plastic film (Wing, tail) w/ Transparent plastic sheet (Washer) w/ Transparent dry glue (Wing, tail)
3. Translucent plastic sheet (Rudder) w/ Transparent adhesive plastic tape (Wing) w/ White plastic label w/ multi-color printing (Sticker)
4. Red silicone rubber (Mouth)
5. Red plastic (Remote control) w/ Black plastic (Switch) + Black plastic (Remote control)
6. Black plastic (Tail) + Black plastic (Connector) + Black plastic (Shaft)
7. Black plastic (Body) + Black plastic (Gear)
8. White soft plastic (Plug) + White plastic (Cable jacket)
9. Black silicone rubber (Mouth) w/ Blue w/ multi-color coating on plastic film (Wing, tail) w/ Multi-color coating on plastic sheet (Pattern)
10. Black printed white plastic label (Sticker) + Off-white plastic label w/ multi-color printing (Sticker)
11. Translucent blue plastic (Body) + Blue plastic (Tail) w/ Dark blue plastic (Connector)
12. Red w/ multi-color coating on plastic film (Wing, tail) w/ Matt-black w/ off-white coating on plastic sheet (Pattern) w/ Yellow w/ orange coating on plastic sheet (Pattern)
13. Light red silicone rubber (Antenna) + Bright white plastic label w/ multi-color printing (Sticker)
14. Orange plastic (Body)

- Note:
- % = percentage by weight
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - 1% = 10000 mg/kg = 10000 ppm
 - The result(s) is (are) calculated using the total specimen weight for composite test.

Summary of Permissible Limit of Requirement(s):

Requirement(s)	Permissible Limit
California Proposition 65 (County of Sacramento Case No. 34-2008-00003278)	
- Children's product	≤ 0.1% for DEHP



Test Item(s)	CAS No.	Result(s) (%)	MDL (%)
Specimen No.	--	1	
Alias No.	--	16	
Tracing No.	--	10	
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	0.003
Di-"isononyl" phthalate (DINP)	68515-48-0	ND	0.010
Di-"isodecyl" phthalate (DIDP)	26761-40-0	ND	0.010

Specimen Description:

- White soft plastic (Plug) + White plastic (Cable jacket)

- Note:
- % = percentage by weight
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - 1% = 10000 mg/kg = 10000 ppm
 - The result(s) is (are) calculated using the total specimen weight for composite test.

Summary of Permissible Limit of Requirement(s):

Requirement(s)	Permissible Limit
California Proposition 65 (Out-of-court Settlement)	
- USB Cables	≤ 0.1% DEHP, DINP and DIDP otherwise warning



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Lead on the Surface of the Submitted Samples by Wipe Test

Method: With reference to NIOSH 9100

Analysis was performed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

Test Item(s)			Lead (Pb)
Permissible Limit (µg/article)			1
Specimen Description	Alias No.	Tracing No.	Result(s) (µg/article)
1. White plastic USB w/ silvery metal plug	1	1	ND

- Note:
- µg/article = microgram per article
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit = 0.1µg/article
 - The quoted limit is stated by Superior Court of California – Out-of-court Settlement for USB Cords

N.B. : - Only applicable clauses were shown.

Remark:

1. Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS shall not be responsible for the authenticity and integrity of such data and information and the validity of the results and / or conclusions arising therefrom. Testing results only apply to the sample as received.
2. The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012). When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability($k=2$), $w = U_{95}$. The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit (T_U):

Pass - when the measurement result is below $T_U - U_{95}$

Fail - when the measurement result is above $T_U + U_{95}$

Inconclusive - when the measurement result is falling in guard band [$T_U - U_{95}$, $T_U + U_{95}$]

For Lower Tolerance Limit (T_L):

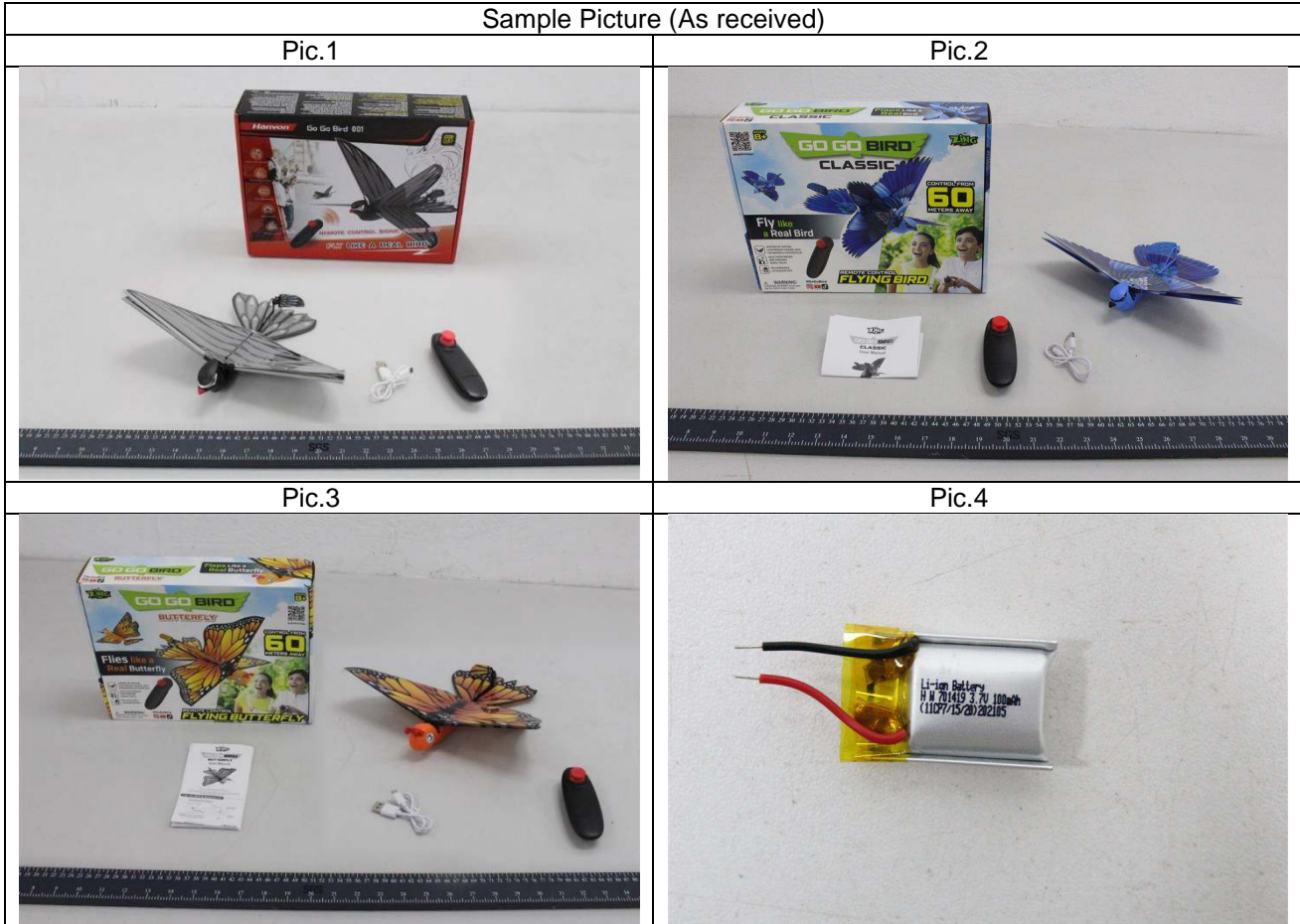
Pass - when the measurement result is above $T_L + U_{95}$

Fail - when the measurement result is below $T_L - U_{95}$

Inconclusive - when the measurement result is falling in guard band [$T_L - U_{95}$, $T_L + U_{95}$]



Sample Picture (As received)



SGS authenticate the photo on original report only

*** End of Report ***

