



Test Report

No.: T52110220067TY

Date: FEB 04, 2021

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Tiny Love Test Report

Applicant:	TINY LOVE LTD
Address:	KORENDIJK 5, NL-5704 RD, HELMOND
Contact Person:	SMADAR CAHLON, YARDEN LABEL, BRIAN CHENG, ASTIN LEE, ALEX FELDMAN

Sample Description:	BOHO CHIC TINY DREAMER		
Style/Item No.:	130680E001	PO No.:	/
Country of Destination:	/	Country of Origin:	CHINA
Vendor:	WINFIELD		
Manufacturer:	/		
Date Code:	/		
Intended Age Grade on Label:	NOT STATED		

Age Group Applied in Testing:	ALL AGES		
Date In:	JAN 04, 2021		
Date Out:	FEB 04, 2021		
Working Days:	7+		
Further Information Date:	FEB 01, 2021	Sample Resubmission Date:	FEB 02, 2021



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Test Requested		Conclusion
1.	Client's Requirement – Alkylphenol Ethoxylates (APEOs) – Nonylphenol Ethoxylates (NPEOs) and Octylphenol Ethoxylates (OPEOs) content in the specified specimen(s) as listed	PASS
2.	Client's Requirement – Alkylphenol (AP)– Nonylphenol (NP) and Octylphenol (OP) content in the specified specimen(s) as listed	PASS
3.	Client's Requirement –Phenols in the specified specimen(s) as listed	PASS
4.	Client's Requirement – International Standard ISO 14184-1: 2011 – Textiles – Determination of Formaldehyde – Part 1 – Free and Hydrolyzed Formaldehyde in the specified specimen(s) as listed (water extraction method)	PASS
5.	Although this is not a toy, per applicant's request, to test the specified clause(s) with reference to IEC 62115: 2017. (Except clause 7.1, 7.2.3, 7.3.1, 7.3.2 & 7.3.3.1 marking or instruction and clause 13.2.3 & 13.6 as per client request.)	PASS
6.	For compliance with EN50419:2006 – Marking of Electrical and Electronic Equipment in accordance with Article 11(2) of Directive 2002/96/EC (WEEE).	--
	EN50419:2006 – Marking of Electrical and Electronic Equipment in accordance with Article 11(2) of Directive 2002/96/EC (WEEE).	PASS
7.	Although this is not a toy, the European standard on Safety of toys was applied as per client's request. There may be additional hazards and labeling requirements that are not covered by this standard:- (Except USB cable)	--
	EN 71-1:2014+A1:2018 – Safety of toys – Part 1: Mechanical and Physical Properties	PASS
	EN 71-2:2011+A1:2014 – Safety of toys – Part 2: Flammability	PASS
	Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725 – EN 71-3:2019 – Migration of certain elements in the specified specimen(s) as listed	PASS



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	Test Requested	Conclusion
8.	European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendments – Cadmium content in the specified specimen(s) as listed	PASS
9.	European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendment (EU) 2018/2005 – Phthalates content in the specified specimen(s) as listed	PASS
10.	European Regulation (EC) No. 1907/2006 (REACH) Annex XVII entry 43 and its amendment (EC) No. 552/2009 – AZO Colourants in the specified specimen(s) as listed	PASS
11.	European Directive 2006/66/EC and its amendments (Directive 2013/56/EU) – Lead, Cadmium and Mercury Content	PASS
12.	European Directive 2006/66/EC and its amendments (Directive 2013/56/EU) - Labeling examination(Except battery capacity labeling)	PASS
13.	Although this is not a toy, per applicant's request, to test the specified clause(s) with reference to EN IEC 62115: 2020+A11: 2020. (Except clause 7.1, 7.2.3, 7.3.1, 7.3.2 & 7.3.3.1 marking or instruction and clause 13.2.3 & 13.6 as per client request.)	PASS
14.	Client's Requirement – Polycyclic Aromatic Hydrocarbons (PAHs) Content in the specified specimen(s) as listed	PASS
15.	Client's Requirement – Phthalates Content in the specified specimen(s) as listed	PASS
16.	Colour Fastness to Rubbing (EN ISO 105-X12:2016)	See Result

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



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Picture Page



Signed for and on behalf of
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Xiao Yongbo, Spring
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Results:

Alkylphenol Ethoxylates (APEOs) – Nonylphenol Ethoxylates (NPEOs) and Octylphenol Ethoxylates (OPEOs) content

Method: Solvent extraction

Analysis was performed by High Performance Liquid Chromatography with Diode Array Detector & Mass Spectrometer (HPLC-DAD-MS) / Triple Quadrupole Liquid Chromatograph Mass Spectrometer (LC-MS/MS)

Test Item(s)	Result(s) (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
Specimen No.	1		
Alias No.	4		
Tracing No.	1		
Nonylphenol Ethoxylates (NPEOs)	ND	30	100
Octylphenol Ethoxylates (OPEOs)	ND	30	100

Specimen Description:

- White tricot w/ grey, black printing (Body) (A) + Green w/ light green woven cord (Handle) (B)

- Note:
- mg/kg = milligram per kilogram
 - 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.



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Alkylphenol (AP) – Nonylphenol (NP) and Octylphenol (OP) content

Method: Solvent extraction

Analysis was performed by High Performance Liquid Chromatography with Diode Array Detector & Mass Spectrometer (HPLC-DAD-MS) / Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	Result(s) (mg/kg)	MDL (mg/kg)	Client's Limit (mg/kg)
Specimen No.	1		
Alias No.	3		
Tracing No.	1		
Nonylphenol (NP)	ND	5	100
Octylphenol (OP)	ND	5	100

Specimen Description:

- White tricot w/ grey, black printing (Body) (A) + Green w/ light green woven cord (Handle) (B)

- Note:
- mg/kg = milligram per kilogram
 - 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.



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Phenols

Test Method : SGS In house method (GZTC CHEM-TOP-055-01, with reference to EPA 3550C:2007), analysis

was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>Client's Limit</u>
Ortho -Phenylphenol (OPP)	90-43-7	mg/kg	0.5	ND	100

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN21-002847.001	White tricot w/ grey, black printing (Body) (A) + Green w/ light green woven cord (Handle) (B)

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated
- (5) The test was conducted by SGS-CSTC Guangzhou Lab, The decision rule of this test item is based on the Binary Statement for Simple Acceptance Rule (w=0) in ILAC-G8:09/2019 Clause 4.2.1

Remark 1: Results shown are of the total weight of mixed samples.

Remark 2: The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference..



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ISO 14184-1: 2011 - Free and Hydrolized Formaldehyde Content

Method: With reference to ISO 14184-1: 2011, Textiles- Determination of formaldehyde - Part 1: Free and Hydrolized formaldehyde (water extraction method)

Analysis was performed by Ultraviolet Visible Spectrometer (UV-Vis)

Specimen Description	Alias No.	Tracing No.	Result(s) (mg/kg)	Client's Limit (mg/kg)
1. White tricot w/ grey, black printing (Body) (A)	2	1	ND	16
2. Green w/ light green woven cord (Handle) (B)	2	2	ND	16

- Note:
- mg/kg = milligram per kilogram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit = 10 mg/kg



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IEC 62115: 2017 SPECIFICATION REQUIREMENTS & TEST RESULTS

<u>Clause</u>	<u>Assessment</u>
1. Scope	--
2. Normative references	--
3. Terms and Definitions	--
4. General requirement	--
5. General conditions for the tests	--
6. Criteria for reduced testing	--
7. Marking and instructions	Pass
(Remark: According to the standard, instruction and other texts required by the standard should be written in the official language(s) of the country in which the product is to be sold. Only English version was reviewed in this report.)	(Except clause 7.1, 7.2.3, 7.3.1, 7.3.2 & 7.3.3.1 as per client request.)
8. Power input	N/A
9. Heating and abnormal operation	Pass
10. Electric strength	Pass
11. Electric toys used in water, electric toys used with liquid and electric toys cleaned with liquid	N/A
12. Mechanical strength	Pass
13. Construction	Pass
	(Except clause 13.2.3 & 13.6 as per client request.)
14. Protection of cords and wires	Pass
15. Components	Pass
16. Screws and connections	Pass
17. Creepage distances and clearances	Pass
18. Resistance to heat and fire	Pass



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Clause

Assessment

<p>19. Emission from electric toys incorporating lasers and or light emitting diodes or UV emitting lamps</p> <p>Toxicological hazards shall comply with ISO 8124 series of standards</p> <p>(Remark: It is the manufacturer's responsibility to ensure the toy does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use.)</p> <p>Modulated accessible emission</p> <p>-Tested flashing frequency less than 4 Hz or more than 60 Hz</p> <p>Toys with an integrated field source shall comply with Annex I</p> <p>(Remark: The submitted sample did not incorporate part which consuming a current more than 3A.)</p>	<p>Pass</p> <p>--</p> <p>Pass</p> <p>N/A</p>
---	--

N/A = Not Applicable



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Detail of Radiation, and similar hazards

Electric toys incorporating lasers and or LED or UV emitting lamps comply with requirement.

Part under test	Peak emission wavelength	Measure distance	Measured emission	Emission limit
SMD blue LED	465.4nm	200mm	0.0007 W/sr	0.04 W/sr
Color LED (green mode)	527.0nm	200mm	0.0087 W/sr	0.04 W/sr
Color LED (red mode)	628.0nm	200mm	0.0006 W/sr	0.04 W/sr
Group of white LEDs	450.4nm	200mm	0.0129 W/sr	0.04 W/sr
	539.8nm			

Part under test	Peak emission wavelength	Measure distance	Measured emission	Emission limit	Percentage	Total percentage
Blue LED	451.8nm	200mm	0.0203w/sr	0.04w/sr	50.75%	59%
Yellow LED	598.2nm	200mm	0.0033w/sr	0.04w/sr	8.25%	
Blue LED	451.8nm	200mm	0.0203w/sr	0.04w/sr	50.75%	71.75%
Orange LED	614.2nm	200mm	0.0084w/sr	0.04w/sr	21%	
Yellow LED	598.2nm	200mm	0.0033w/sr	0.04w/sr	8.25%	29.25%
Orange LED	614.2nm	200mm	0.0084w/sr	0.04w/sr	21%	

EN50419:2006 – Marking of Electrical and Electronic Equipment in accordance with Article 11(2) of Directive 2002/96/EC (WEEE).

Clause	Description	Result
4	Marking	
4.1	Requirements of marking	<u>Pass</u>
4.2	Design of the marking.....	<u>Pass</u>
4.3	Adaptation of the location of the marking.....	<u>Pass</u>



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EUROPEAN STANDARD ON SAFETY OF TOYS

EN 71-1:2014 + A1:2018 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

AS SPECIFIED IN EN 71-1:2014 + A1:2018 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	General requirements	
4.1	Material cleanliness	<u>Pass</u>
4.7	Edges	<u>Pass</u>
4.8	Points and metallic wires	<u>Pass</u>
4.20	Acoustics	<u>Pass (See Table 1)</u>
5	Toys intended for children under 36 months	
5.1	General requirements:	
5.1a	Small part requirement on toys & removable Components (Test method 8.2)	<u>Pass</u>
5.1b	Torque test (Test method 8.3)	<u>Pass</u>
	Tension test (Test method 8.4)	<u>Pass</u>
	Drop test (Test method 8.5)	<u>Pass</u>
	Impact test (Test method 8.7)	<u>Pass</u>
	Compression test (Test method 8.8)	<u>Pass</u>
	Sharp edge (Test method 8.11)	<u>Pass</u>
	Sharp point (Test method 8.12)	<u>Pass</u>
5.1f	The casing of toys intended for children too young to sit up unaided	<u>Pass</u>
5.4	Cords, chains and electrical cable in toys	<u>Pass</u>
5.8	Shape and size of certain toys	<u>Pass</u>

Table 1:

Max Result	
L _{pA} : 73.9dB	L _{pCpeak} : 88.9dB



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EN 71-2:2011+A1:2014 – SAFETY OF TOYS – PART 2: FLAMMABILITY

AS SPECIFIED IN EN 71-2:2011+A1:2014 – SAFETY OF TOYS – PART 2: FLAMMABILITY

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General requirements	<u>Pass</u>

Type of gas: Butane gas used in the test burner



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Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725 – EN 71-3:2019 – Migration of certain elements
Category III: Scraped-off toy material

Method: With reference to EN 71-3:2019. Analysis of general elements was performed by ICP-OES. Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV-Vis / LC-ICP-MS and organic tin was analyzed by GC-MS.

Test Item(s)	Result(s)			MDL	Permissible Limit
	1	2	3		
Specimen No.				--	--
Mass of trace amount (mg)	/	/	/	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	70000
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺ (Cr) (mg/kg)	ND	0.30	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	65	ND	50	46000

Specimen Description:

1. White tricot w/ grey, black printing (Body) (A)
2. Green w/ light green woven cord (Handle) (B)
3. Off-white plastic (Body) (C)



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- Note:
- mg/kg = milligram per kilogram
 - mg = milligram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - 1% = 10000 mg/kg = 10000 ppm
 - + Soluble Chromium is not restricted by EN 71-3:2019, results shown only for reference
 - On November 19, 2019, the EU published Directive (EU) 2019/1922 to strengthen aluminum migration to 28130 mg/kg for Category III materials as part of its technical and scientific developments under the TSD. The new restrictions will become effective on May 20, 2021.



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European Regulation (EC) No. 1907/2006 (REACH), Annex XVII and its Amendments – Cadmium Content

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

For Plastic

Test Item(s)	Cadmium (Cd)		
Permissible Limit (mg/kg)	100		
Specimen Description	Alias No.	Tracing No.	Result(s) (mg/kg)
1. Off-white plastic (Body) (C)	9	1	ND
2. White plastic label w/ black printing (Sticker) (D) + White soft plastic (USB) (E) + White plastic (Cable jacket) (F)	9	2	ND
3. White plastic (Plug) (G) + Black plastic (Plug) (H)	9	3	ND
4. Cream plastic (Inner) (I) + Black plastic (Speaker) (J) + Transparent plastic (LED) (K)	9	4	ND
5. Transparent plastic (Big LED) (L) + Cream plastic (Plug) (M) + White plastic (Plug) (N)	9	5	ND
6. Black material (Inner) (O) w/ White w/ yellow material (LED) (P)	9	6	ND
7. Light grey plastic (Flat wire jacket) (Q) w/ Transparent dry glue (Inner) (R) w/ Transparent cream dry glue (Inner) (S)	9	7	ND
8. Black plastic (Thick wire jacket) (T) Black plastic sheet (Speaker) (U) w/ Black dry glue (Speaker) (V)	9	8	ND
9. Red plastic (Thick wire jacket) (W) w/ Black plastic (Wire jacket) (X) w/ Red plastic (Wire jacket) (Y)	9	9	ND
10. Black foam w/ adhesive (Z) w/ Transparent yellow plastic label (AA)	9	10	ND
11. Dark brown PCB w/ green, white printing (Inner) (AB) w/ Light cream PCB w/ green printing (Speaker) (AC)	9	11	ND
12. Cream PCB w/ green, white printing (Inner) (AD) w/ Dark cream PCB w/ green, white printing (Battery) (AE) + Dull cream PCB w/ green, white printing (Inner) (AI)	9	12	ND
13. Bright red plastic (Wire jacket) (AJ) + Bright black plastic (Wire jacket) (AK)	9	13	ND
14. Bright green plastic (Wire jacket) (AL) + Bright white plastic (Wire jacket) (AM)	9	14	ND
15. White soft plastic (Inner) (AF) w/ yellow adhesive paper sheet (Inner) (AN)	10	1	ND
16. Black material (Inner) (AG)	11	1	ND



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- Note:
- Permissible and Reference Limit specified by Commission Regulation (EU) No 494/2011 & Commission Regulation (EU) No 2016/217 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under entry 23 of Regulation (EC) No 552/2009 and directive 91/338/EC).
 - mg/kg = milligram per kilogram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit = 5 mg/kg
 - 1% = 10000 mg/kg = 10000 ppm
 - The result(s) is (are) calculated using the minimum specimen weight for composite test.

European Regulation (EC) No. 1907/2006 (REACH) Annex XVII and its amendment (EU) 2018/2005 – Phthalate content

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

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

Materials can be placed in the mouth for toys & childcare articles

Test Item(s)	CAS No.	Result (s) (%)	MDL (%)	Permissible Limit (%)
Alias No.	--	13		
Tracing No.	--	1		
Specimen No.	--	1		
Dibutyl Phthalate (DBP)	84-74-2	ND	0.003	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	0.003	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	0.003	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	--	0.1



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Specimen Description:

- Off-white plastic (Body) (C)

Materials can not be placed in the mouth for toys & childcare articles or plasticized material in the other article.

Test Item(s)	CAS No.	Result (s) (%)			MDL (%)	Permissible Limit (%)
Alias No.	--	13	13	13		
Tracing No.	--	2	3	4		
Specimen No.	--	1	2	3		
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
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	ND	ND	--	0.1

Test Item(s)	CAS No.	Result (s) (%)			MDL (%)	Permissible Limit (%)
Alias No.	--	13	13	13		
Tracing No.	--	5	6	7		
Specimen No.	--	4	5	6		
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
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	ND	ND	--	0.1



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Test Item(s)	CAS No.	Result (s) (%)			MDL (%)	Permissible Limit (%)
Alias No.	--	13	13	13		
Tracing No.	--	8	9	10		
Specimen No.	--	7	8	9		
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	0.007	ND	ND	0.003	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		0.007	ND	ND	--	0.1

Test Item(s)	CAS No.	Result (s) (%)			MDL (%)	Permissible Limit (%)
Alias No.	--	13	13	13		
Tracing No.	--	11	12	13		
Specimen No.	--	10	11	12		
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
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Total (DBP+BBP+DEHP+DIBP)		ND	ND	ND	--	0.1



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Specimen Description:

1. White plastic label w/ black printing (Sticker) (D) + White soft plastic (USB) (E) + White plastic (Cable jacket) (F)
2. White plastic (Plug) (G) + Black plastic (Plug) (H)
3. Cream plastic (Inner) (I) + Black plastic (Speaker) (J) + Transparent plastic (LED) (K)
4. Transparent plastic (Big LED) (L) + Cream plastic (Plug) (M) + White plastic (Plug) (N)
5. Black material (Inner) (O) w/ White w/ yellow material (LED) (P)
6. Light grey plastic (Flat wire jacket) (Q) w/ Transparent dry glue (Inner) (R) w/ Transparent cream dry glue (Inner) (S)
7. Black plastic (Thick wire jacket) (T) Black plastic sheet (Speaker) (U) w/ Black dry glue (Speaker) (V)
8. Red plastic (Thick wire jacket) (W) w/ Black plastic (Wire jacket) (X) w/ Red plastic (Wire jacket) (Y)
9. Black foam w/ adhesive (Z) w/ Transparent yellow plastic label (AA)
10. White soft plastic (Inner) (AF) w/ yellow adhesive paper sheet (Inner) (AN)
11. Bright red plastic (Wire jacket) (AJ) + Bright black plastic (Wire jacket) (AK)
12. Bright green plastic (Wire jacket) (AL) + Bright white plastic (Wire jacket) (AM)

- Note:
- ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - % = percentage by weight
 - Results shown as ND are ignored in the sum calculation
 - The result(s) is (are) calculated using the total specimen weight for composite test



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European Regulation (EC) No. 1907/2006 (REACH) Annex XVII entry 43 and its amendment (EC) No. 552/2009 – AZO Colourants

Method: With reference to EN ISO 14362-1:2017 / EN ISO 14362-3:2017

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / High Performance Liquid Chromatography with Diode Array Detector (HPLC-DAD)

No.	Forbidden Amines Substances	CAS-No.	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
			Direct reduction	Colorant extraction		
1.	4-Aminodiphenyl	92-67-1	ND	ND	5	30
2.	Benzidine	92-87-5	ND	ND	5	30
3.	4-Chloro- <i>o</i> -toluidine	95-69-2	ND	ND	5	30
4.	2-Naphthylamine	91-59-8	ND	ND	5	30
5.	<i>o</i> -Aminoazotoluene	97-56-3	ND	ND	5	30
6.	5-nitro- <i>o</i> -toluidine	99-55-8	ND	ND	5	30
7.	4-Chloroaniline	106-47-8	ND	ND	5	30
8.	2,4-Diaminoanisole	615-05-4	ND	ND	5	30
9.	4,4'-Diaminodiphenylmethane, MDA	101-77-9	ND	ND	5	30
10.	3,3'-Dichlorobenzidine	91-94-1	ND	ND	5	30
11.	3,3'-Dimethoxybenzidine	119-90-4	ND	ND	5	30
12.	3,3'-Dimethylbenzidine	119-93-7	ND	ND	5	30
13.	4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	ND	ND	5	30
14.	<i>p</i> -Cresidine	120-71-8	ND	ND	5	30
15.	4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	ND	5	30
16.	4,4'-Oxydianiline	101-80-4	ND	ND	5	30
17.	4,4'-Thiodianiline	139-65-1	ND	ND	5	30
18.	<i>o</i> -Toluidine	95-53-4	ND	ND	5	30
19.	2,4-Diaminotoluene, TDA	95-80-7	ND	ND	5	30
20.	2,4,5-Trimethylaniline	137-17-7	ND	ND	5	30
21.	4-Aminoazobenzene	60-09-3	ND	ND	5	30
22.	2-methoxyaniline	90-04-0	ND	ND	5	30

Specimen Description:

- White tricot w/ grey, black printing (Body) (A) + Green w/ light green woven cord (Handle) (B)



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- Note:
- mg/kg = milligram per kilogram
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - Direct reduction refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses.

Colorant extraction refers to the colourant extraction and subsequent reduction according to EN ISO 14362-1:2017 clause 10.1 and relevant clauses.

- EN ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "ND" (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.
- 4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.
- In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.
- The result(s) is (are) calculated using the total specimen weight for composite test



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European Directive 2006/66/EC and its amendments (Directive 2013/56/EU) – Lead, Cadmium and Mercury Content

Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013

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

For Portable Batteries

Test Item(s)	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)
MDL (%)	0.001	0.001	0.0001
Labeling Requirement (%)	> 0.004	> 0.002	> 0.0005
Permissible Limit (%)	--	0.002 ^{##}	0.0005
Specimen Description	Alias No.	Tracing No.	Result(s) (%)
1. Battery (NACCON 603450 3.7V 1000mAh 3.7Wh) (AH)	14	1	ND ND ND

- Note:
- % = percentage by weight
 - ND = Not Detected (lower than MDL)
 - 1% = 10000 mg/kg = 10000 ppm
 - > = greater than
 - ^{##} = Not applicable to portable batteries and accumulators intended to use in emergency and alarm systems, medical equipments and cordless power tools.



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European Directive 2006/66/EC and its amendments (Directive 2013/56/EU) – Labeling Examination (Except Battery Capacity Labeling)

Method: With reference to labeling requirement in Article 21 of European Directive 2006/66/EC

Description	Result(s)
	1
Alias No.	15
Tracing No.	1
Labeling	--
Requirement of crossed-out wheellie bin symbol	Pass
Requirement of chemical symbol	N/A

Specimen Description:

- Battery (NACCON 603450 3.7V 1000mAh 3.7Wh) (AH)

Note: - N/A = Not Applicable



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EN IEC 62115: 2020+A11: 2020 SPECIFICATION REQUIREMENTS & TEST RESULTS

<u>Clause</u>	<u>Assessment</u>
1. Scope	--
2. Normative references	--
3. Terms and Definitions	--
4. General requirement	--
5. General conditions for the tests	--
6. Criteria for reduced testing	--
7. Marking and instructions	Pass
(Remark: According to the standard, instruction and other texts required by the standard should be written in the official language(s) of the country in which the product is to be sold. Only English version was reviewed in this report.)	(Except clause 7.1, 7.2.3, 7.3.1, 7.3.2 & 7.3.3.1 as per client request.)
8. Power input	N/A
9. Heating and abnormal operation	Pass
10. Electric strength	Pass
11. Electric toys used in water, electric toys used with liquid and electric toys cleaned with liquid	N/A
12. Mechanical strength	Pass
13. Construction	Pass
	(Except clause 13.2.3 & 13.6 as per client request.)
14. Protection of cords and wires	Pass
15. Components	Pass
16. Screws and connections	Pass
17. Creepage distances and clearances	Pass
18. Resistance to heat and fire	Pass



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Clause

Assessment

<p>19. Emission from electric toys incorporating lasers and or light emitting diodes or UV emitting lamps</p> <p>Toxicological hazards shall comply with EN 71 series of standards</p> <p>(Remark: It is the manufacturer's responsibility to ensure the toy does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use.)</p> <p>Modulated accessible emission</p> <p>-Tested flashing frequency less than 4 Hz or more than 60 Hz</p> <p>Toys with an integrated field source shall comply with Annex I</p> <p>(Remark: The submitted sample did not incorporate part which consuming a current more than 3A.)</p>	<p>Pass</p> <p>--</p> <p>Pass</p> <p>N/A</p>
--	--

N/A = Not Applicable



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Detail of Radiation, and similar hazards

Electric toys incorporating lasers and or LED or UV emitting lamps comply with requirement.

Part under test	Peak emission wavelength	Measure distance	Measured emission	Emission limit
SMD blue LED	465.4nm	200mm	0.0007 W/sr	0.04 W/sr
Color LED (green mode)	527.0nm	200mm	0.0087 W/sr	0.04 W/sr
Color LED (red mode)	628.0nm	200mm	0.0006 W/sr	0.04 W/sr
Group of white LEDs	450.4nm	200mm	0.0129 W/sr	0.04 W/sr
	539.8nm			

Part under test	Peak emission wavelength	Measure distance	Measured emission	Emission limit	Percentage	Total percentage
Blue LED	451.8nm	200mm	0.0203w/sr	0.04w/sr	50.75%	59%
Yellow LED	598.2nm	200mm	0.0033w/sr	0.04w/sr	8.25%	
Blue LED	451.8nm	200mm	0.0203w/sr	0.04w/sr	50.75%	71.75%
Orange LED	614.2nm	200mm	0.0084w/sr	0.04w/sr	21%	
Yellow LED	598.2nm	200mm	0.0033w/sr	0.04w/sr	8.25%	29.25%
Orange LED	614.2nm	200mm	0.0084w/sr	0.04w/sr	21%	

Note: About requirements in Directive 2009/48/EC

According to 2009/48/EC, name and address of manufacturer and importer, and product identification shall be indicated on the toy, or, where that is not possible, on its packaging or in a document accompanying the toy.



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Polycyclic Aromatic Hydrocarbon (PAHs) Content

Method: With reference to AfPS GS 2019:01 PAK method.
 Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Category 1: Materials intended to be placed in the mouth or materials coming into long-term contact with skin (More than 30s) during the intended use – In toys according to Directive 2019/48/EC or for the use by children up to 3 years of age

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Client's Limit (mg/kg)
		1	2	3		
Specimen No.	--	1	2	3		
Alias No.	--	8	8	8		
Tracing No.	--	1	2	3		
1. Naphthalene	91-20-3	ND	ND	ND	0.1	1
2. Acenaphthylene	208-96-8	ND	ND	ND	0.1	--
3. Acenaphthene	83-32-9	ND	ND	ND	0.1	--
4. Fluorene	86-73-7	ND	ND	ND	0.1	--
5. Phenanthrene	85-01-8	ND	ND	ND	0.1	--
6. Anthracene	120-12-7	ND	ND	ND	0.1	--
7. Fluoranthene	206-44-0	ND	ND	ND	0.1	--
8. Pyrene	129-00-0	ND	ND	ND	0.1	--
9. Benz[a]anthracene	56-55-3	ND	ND	ND	0.1	0.2
10. Chrysene	218-01-9	ND	ND	ND	0.1	0.2
11. Benzo[b]fluoranthene	205-99-2	ND	ND	ND	0.1	0.2
12. Benzo[k]fluoranthene	207-08-9	ND	ND	ND	0.1	0.2
13. Benzo[j]fluoranthene	205-82-3	ND	ND	ND	0.1	0.2
14. Benzo[a]pyrene	50-32-8	ND	ND	ND	0.1	0.2
15. Benzo[e]pyrene	192-97-2	ND	ND	ND	0.1	0.2
16. Indeno[1,2,3-cd]pyrene	193-39-5	ND	ND	ND	0.1	0.2
17. Dibenzo[a,h]anthracene	53-70-3	ND	ND	ND	0.1	0.2
18. Benzo[g,h,i]perylene	191-24-2	ND	ND	ND	0.1	0.2
Sum of 7 PAHs [^]	--	ND	ND	ND	--	1
Sum of 18 PAHs	--	ND	ND	ND	--	1

Specimen Description:

- White tricot w/ grey, black printing (Body) (A)
- Green w/ light green woven cord (Handle) (B)
- Off-white plastic (Body) (C)



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- Note:
- ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - mg/kg = milligram per kilogram
 - ^7 PAHs including Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene & Pyrene
 - Results shown as ND are ignored in the sum calculation

Category 3: Materials covered neither by Category 1 nor by Category 2, coming into short-term contact (Up to 30s) with skin during the intended or foreseeable use – Used by other consumer products

Test Item(s)	CAS No.	Result(s) (mg/kg)		MDL (mg/kg)	Client's Limit (mg/kg)
		1	2		
Specimen No.	--	1	2		
Alias No.	--	8	8		
Tracing No.	--	4	5		
1. Naphthalene	91-20-3	ND	ND	0.1	10
2. Acenaphthylene	208-96-8	ND	ND	0.1	--
3. Acenaphthene	83-32-9	ND	ND	0.1	--
4. Fluorene	86-73-7	ND	ND	0.1	--
5. Phenanthrene	85-01-8	ND	ND	0.1	--
6. Anthracene	120-12-7	ND	ND	0.1	--
7. Fluoranthene	206-44-0	ND	ND	0.1	--
8. Pyrene	129-00-0	ND	ND	0.1	--
9. Benz[a]anthracene	56-55-3	ND	ND	0.1	1
10. Chrysene	218-01-9	ND	ND	0.1	1
11. Benzo[b]fluoranthene	205-99-2	ND	ND	0.1	1
12. Benzo[k]fluoranthene	207-08-9	ND	ND	0.1	1
13. Benzo[j]fluoranthene	205-82-3	ND	ND	0.1	1
14. Benzo[a]pyrene	50-32-8	ND	ND	0.1	1
15. Benzo[e]pyrene	192-97-2	ND	ND	0.1	1
16. Indeno[1,2,3-cd]pyrene	193-39-5	ND	ND	0.1	1
17. Dibenz[a,h]anthracene	53-70-3	ND	ND	0.1	1
18. Benzo[g,h,i]perylene	191-24-2	ND	ND	0.1	1
Sum of 7 PAHs [^]	--	ND	ND	--	50
Sum of 18 PAHs	--	ND	ND	--	50



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Specimen Description:

1. White plastic label w/ black printing (Sticker) (D) + White soft plastic (USB) (E) + White plastic (Cable jacket) (F)
2. White plastic (Plug) (G) + Black plastic (Plug) (H)

- Note:
- ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - mg/kg = milligram per kilogram
 - ^7 PAHs including Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Fluoranthene & Pyrene
 - Results shown as ND are ignored in the sum calculation
 - The result(s) is (are) calculated using the total specimen weight for composite test



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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 (%)	Client's Limit (%)
		1	2	3		
Specimen No.	--	12	12	12		
Alias No.	--	1	2	3		
Tracing No.	--	1	2	3		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	--
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	--
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003	--
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	ND	0.003	0.1
N-pentyl-isopentylphthalate (nPIPP)	776297-69-9	ND	ND	ND	0.003	0.1
Diisopentyl phthalate (DiPP)	605-50-5	ND	ND	ND	0.003	0.1
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	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
1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester (DPHP)	53306-54-0	ND	ND	ND	0.010	0.1
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	ND	ND	ND	0.010	0.1
Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters (DHNUP)	68515-42-4	ND	ND	ND	0.010	0.1
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear ^	84777-06-0	ND	ND	ND	0.003	0.1
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND	ND	ND	0.003	0.1
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 68648-93-1	ND	ND	ND	0.025	0.1
Total (DBP+BBP+DEHP)		ND	ND	ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	ND	ND	--	0.1


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Test Item(s) Specimen No.	CAS No.	Result(s) (%)			MDL (%)	Client's Limit (%)
		4	5	6		
Alias No.	--	12	12	12		
Tracing No.	--	4	5	6		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	--
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	--
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.003	--
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	ND	0.003	0.1
N-pentyl-isopentylphthalate (nPiPP)	776297-69-9	ND	ND	ND	0.003	0.1
Diisopentyl phthalate (DiPP)	605-50-5	ND	ND	ND	0.003	0.1
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	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
1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester (DPHP)	53306-54-0	ND	ND	ND	0.010	0.1
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	ND	ND	ND	0.010	0.1
Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters (DHNUP)	68515-42-4	ND	ND	ND	0.010	0.1
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear ^	84777-06-0	ND	ND	ND	0.003	0.1
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND	ND	ND	0.003	0.1
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 68648-93-1	ND	ND	ND	0.025	0.1
Total (DBP+BBP+DEHP)		ND	ND	ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	ND	ND	--	0.1



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Test Item(s) Specimen No.	CAS No.	Result(s) (%)			MDL (%)	Client's Limit (%)
		7	8	9		
Alias No.	--	12	12	12		
Tracing No.	--	7	8	9		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.003	--
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.003	--
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	0.007	ND	0.003	--
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.003	0.1
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	ND	0.003	0.1
N-pentyl-isopentylphthalate (nPiPP)	776297-69-9	ND	ND	ND	0.003	0.1
Diisopentyl phthalate (DiPP)	605-50-5	ND	ND	ND	0.003	0.1
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	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
1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester (DPHP)	53306-54-0	ND	ND	ND	0.010	0.1
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	ND	ND	ND	0.010	0.1
Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters (DHNUP)	68515-42-4	ND	ND	ND	0.010	0.1
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear ^	84777-06-0	ND	ND	ND	0.003	0.1
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND	ND	ND	0.003	0.1
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 68648-93-1	ND	ND	ND	0.025	0.1
Total (DBP+BBP+DEHP)		ND	0.007	ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	ND	ND	--	0.1



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Test Item(s)	CAS No.	Result(s) (%)		MDL (%)	Client's Limit (%)
		10	11		
Specimen No.	--	10	11		
Alias No.	--	12	12		
Tracing No.	--	10	11		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	0.003	--
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	0.003	--
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	0.003	--
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.003	0.1
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	0.003	0.1
N-pentyl-isopentylphthalate (nPiPP)	776297-69-9	ND	ND	0.003	0.1
Diisopentyl phthalate (DiPP)	605-50-5	ND	ND	0.003	0.1
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	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
1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester (DPHP)	53306-54-0	ND	ND	0.010	0.1
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	ND	ND	0.010	0.1
Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters (DHNUP)	68515-42-4	ND	ND	0.010	0.1
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear ^	84777-06-0	ND	ND	0.003	0.1
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND	ND	0.003	0.1
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 68648-93-1	ND	ND	0.025	0.1
Total (DBP+BBP+DEHP)		ND	ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	ND	--	0.1



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Test Item(s)	CAS No.	Result(s) (%)		MDL (%)	Client's Limit (%)
		12	13		
Specimen No.	--	12	13		
Alias No.	--	12	12		
Tracing No.	--	12	13		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	0.003	--
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	0.003	--
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	0.003	--
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	0.010	--
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	ND	0.003	--
Diisodecyl Phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	0.010	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.003	0.1
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	0.003	0.1
N-pentyl-isopentylphthalate (nPiPP)	776297-69-9	ND	ND	0.003	0.1
Diisopentyl phthalate (DiPP)	605-50-5	ND	ND	0.003	0.1
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	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
1,2-Benzenedicarboxylic acid, bis(2-propylheptyl) ester (DPHP)	53306-54-0	ND	ND	0.010	0.1
1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	ND	ND	0.010	0.1
Benzenedicarboxylic acid, di-(C7-11)-branched and linear alkyl esters (DHNUP)	68515-42-4	ND	ND	0.010	0.1
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear ^	84777-06-0	ND	ND	0.003	0.1
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND	ND	0.003	0.1
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5 68648-93-1	ND	ND	0.025	0.1
Total (DBP+BBP+DEHP)		ND	ND	--	0.1
Total (DINP+DNOP+DIDP)		ND	ND	--	0.1



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Specimen Description:

1. Off-white plastic (Body) (C)
2. White plastic label w/ black printing (Sticker) (D) + White soft plastic (USB) (E) + White plastic (Cable jacket) (F)
3. White plastic (Plug) (G) + Black plastic (Plug) (H)
4. Cream plastic (Inner) (I) + Black plastic (Speaker) (J) + Transparent plastic (LED) (K)
5. Transparent plastic (Big LED) (L) + Cream plastic (Plug) (M) + White plastic (Plug) (N)
6. Black material (Inner) (O) w/ White w/ yellow material (LED) (P)
7. Light grey plastic (Flat wire jacket) (Q) w/ Transparent dry glue (Inner) (R) w/ Transparent cream dry glue (Inner) (S)
8. Black plastic (Thick wire jacket) (T) Black plastic sheet (Speaker) (U) w/ Black dry glue (Speaker) (V)
9. Red plastic (Thick wire jacket) (W) w/ Black plastic (Wire jacket) (X) w/ Red plastic (Wire jacket) (Y)
10. Black foam w/ adhesive (Z) w/ Transparent yellow plastic label (AA)
11. White soft plastic (Inner) (AF) w/ yellow adhesive paper sheet (Inner) (AN)
12. Bright red plastic (Wire jacket) (AJ) + Bright black plastic (Wire jacket) (AK)
13. Bright green plastic (Wire jacket) (AL) + Bright white plastic (Wire jacket) (AM)

- Note:
- MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - % = percentage by weight
 - Results shown as ND are ignored in the sum calculation
 - The result(s) is (are) calculated using the total specimen weight for composite test
 - ^ = a mixture of i) Di-n-pentyl phthalate (DPP); ii) N-pentyl-isopentylphthalate (nPiPP) and iii) Diisopentyl phthalate (DiPP)



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Colour Fastness to Rubbing

I. (EN ISO 105-X12:2016

Size of rubbing finger: 16mm diameter)

	<u>1</u>	<u>2</u>	<u>3</u>
Dry staining	4-5	4-5	4-5
Wet staining	4-5	4-5	4-5

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

Specimen Description:

1. Green and light green cord (Submitted on Feb 02, 2021)
2. Grey and black printing surfaced the back of white tricot
3. Brown and light brown foam sheet with light brown fabric backing

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 [$T_L - U_{95}$, $T_L + U_{95}$]

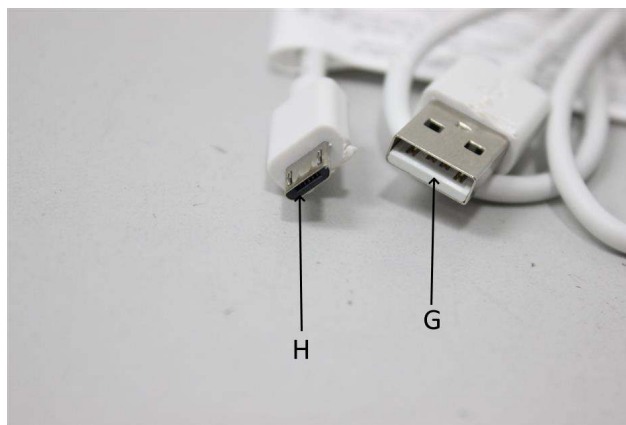
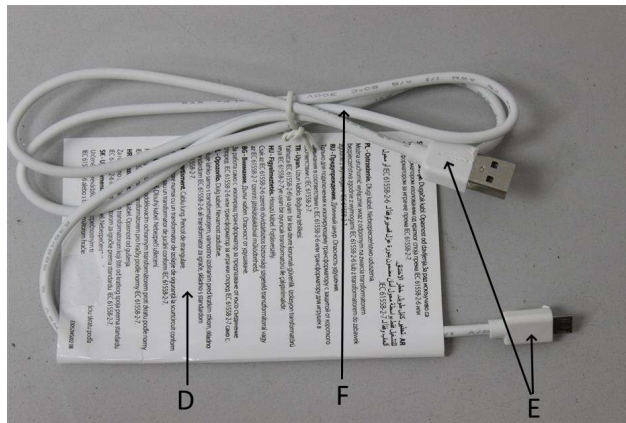
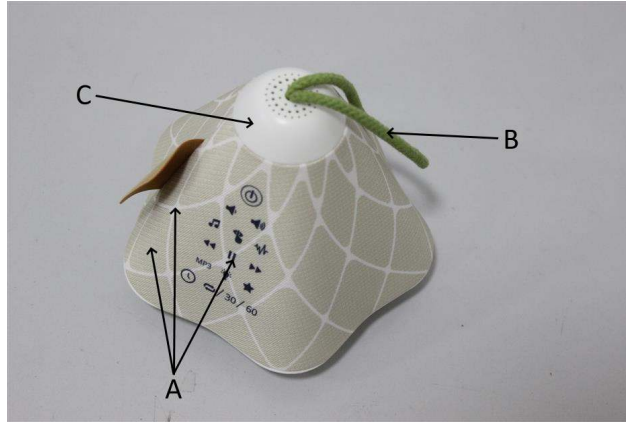


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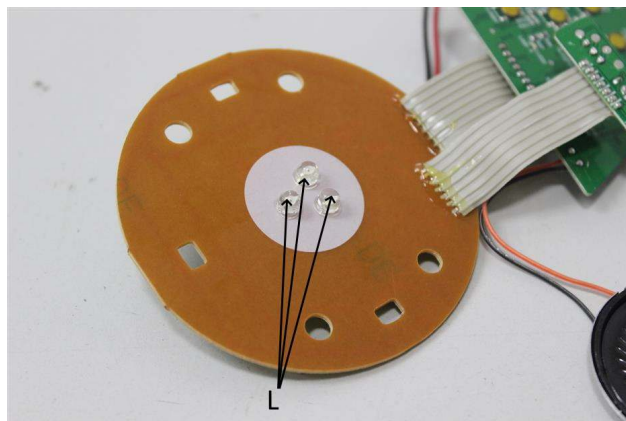
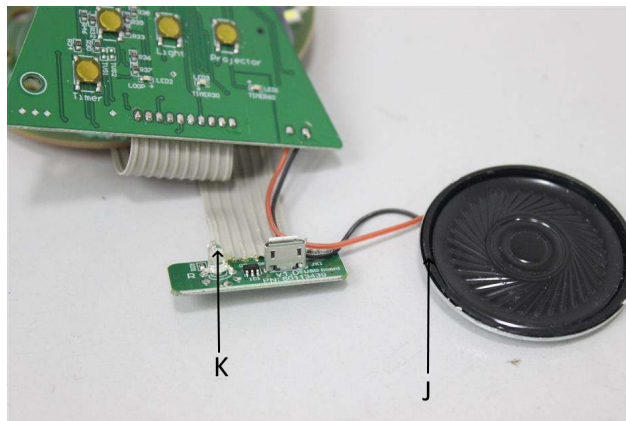
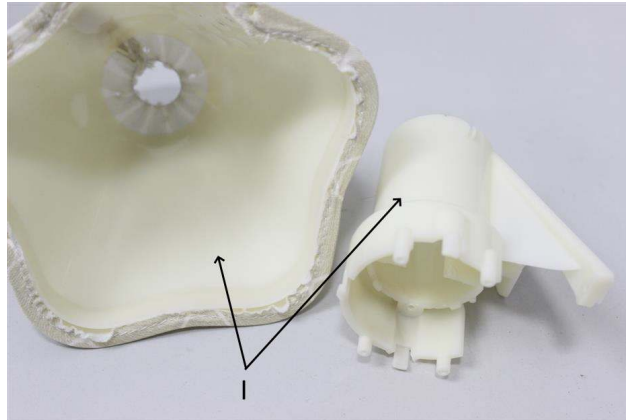


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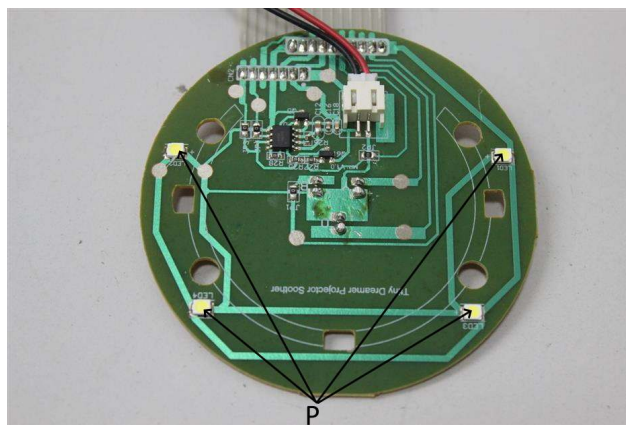
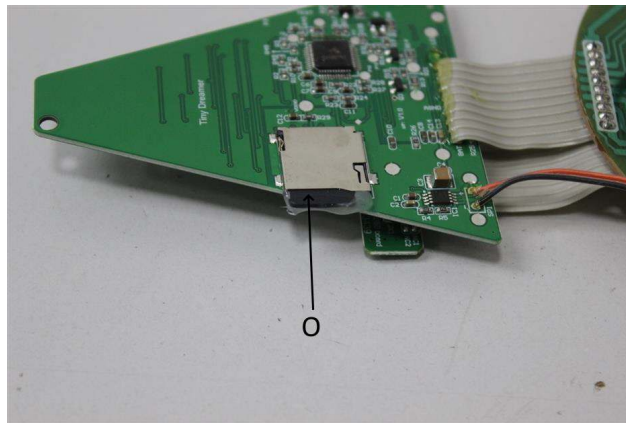
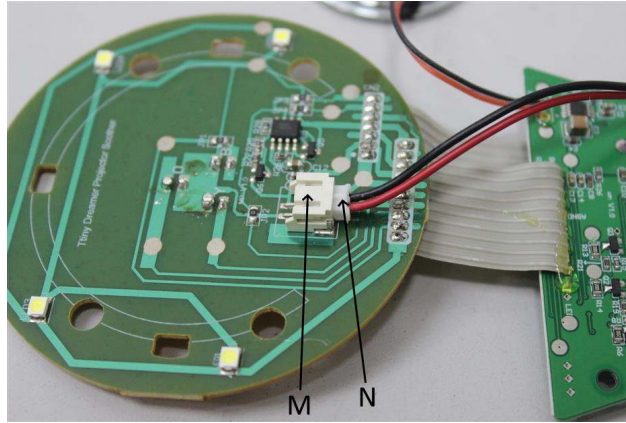
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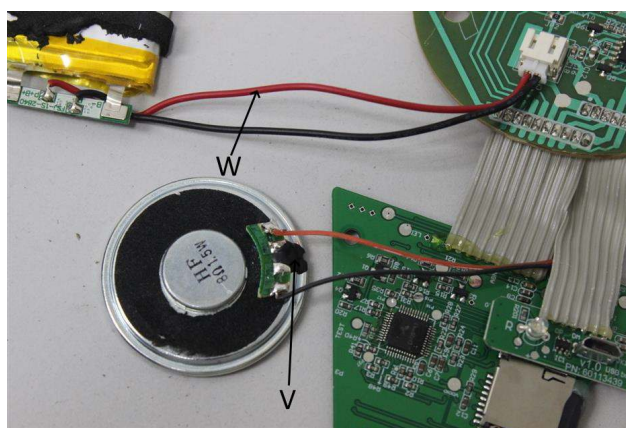
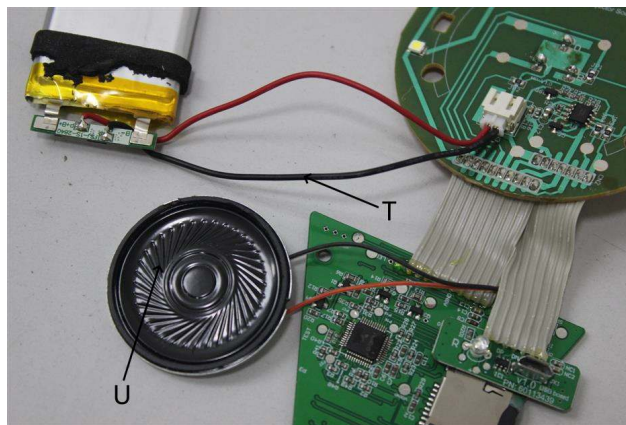
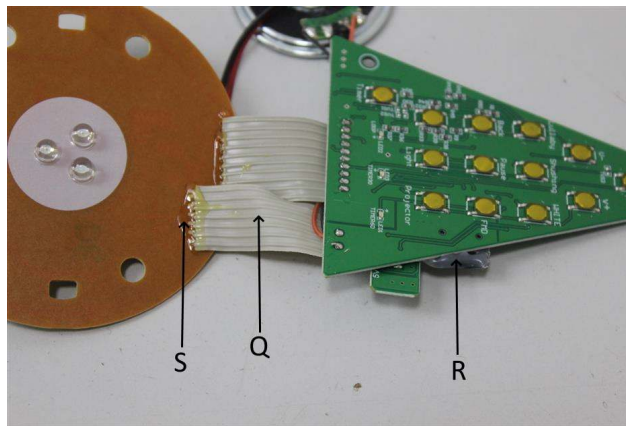


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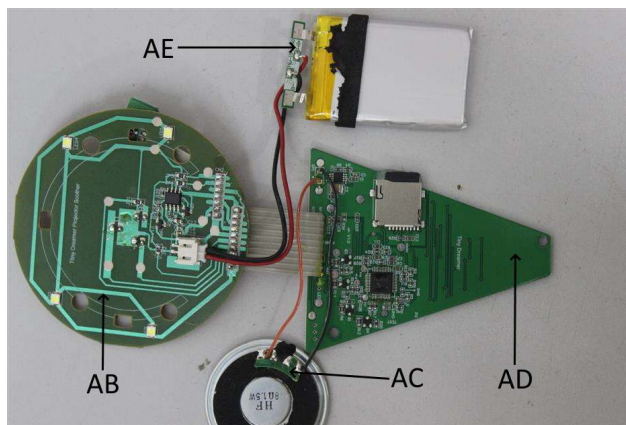
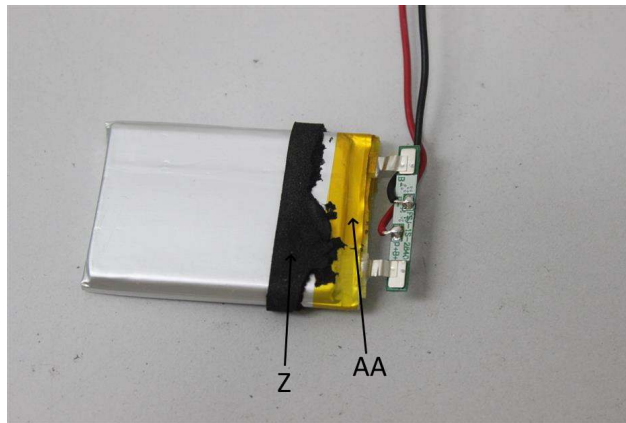
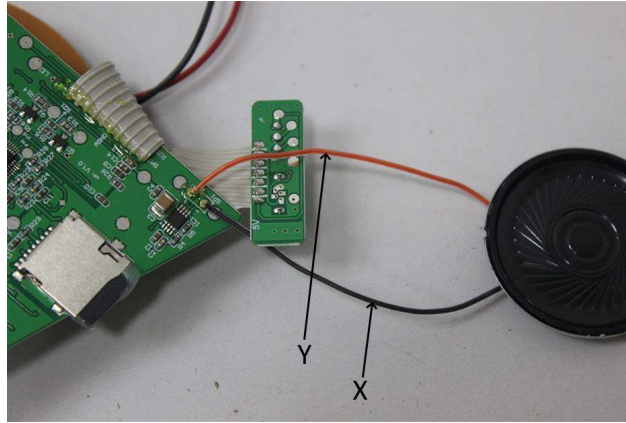


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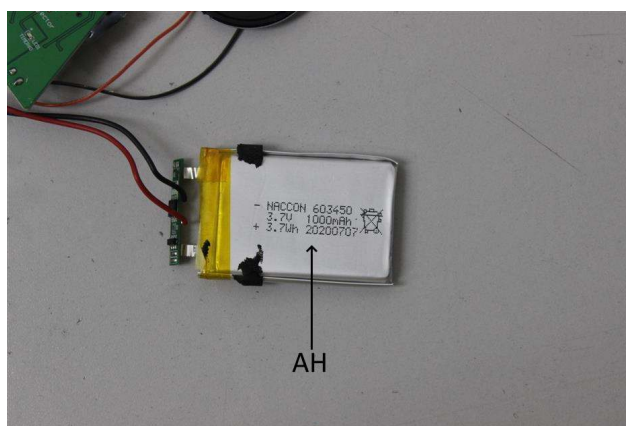
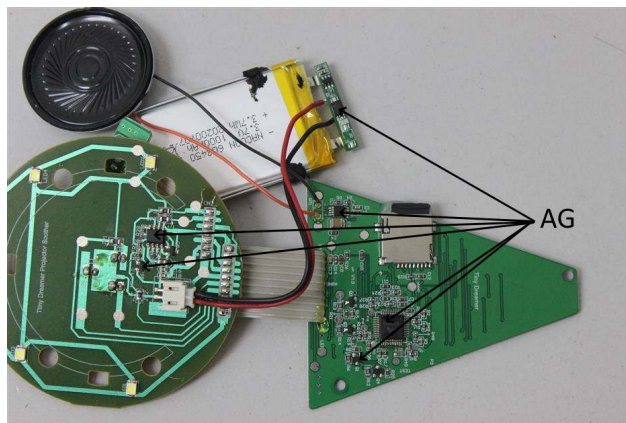
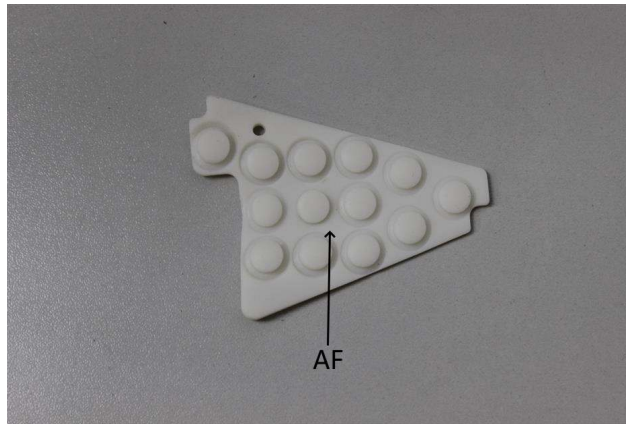
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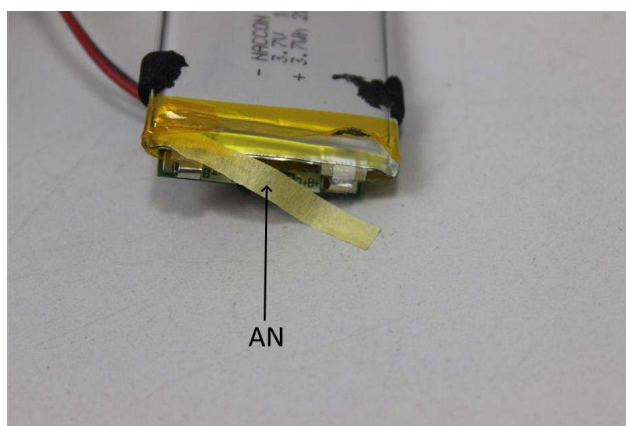
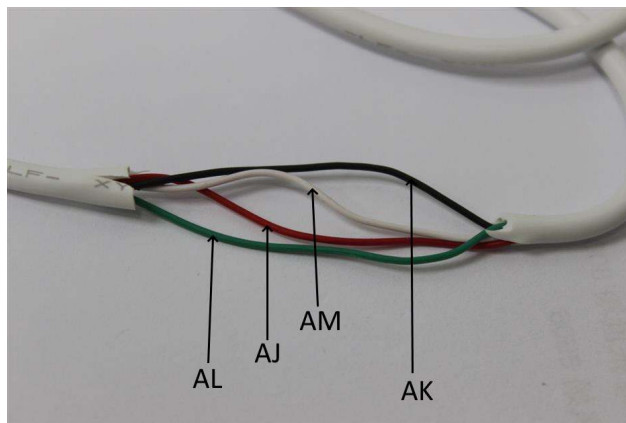
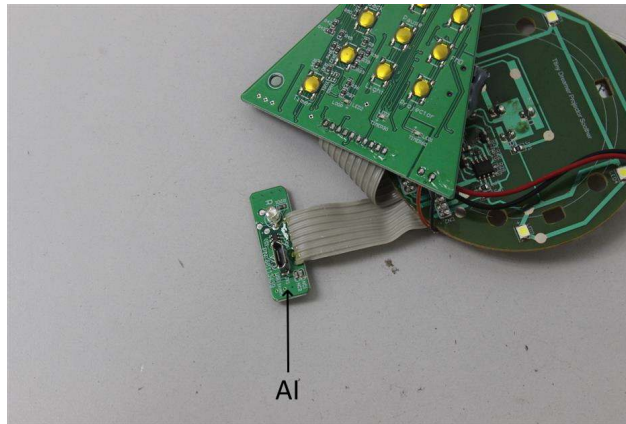


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SGS-CSTC Standards Technical Services Co., Ltd.
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