



**Test Report**

Number: SZHH01092015

Applicant: DONGGUAN LIYANG TOYS LTD.  
Floor 3, Building 2, Daxingwei Industry  
Xianxi, Wusha, Changan Town,  
Dongguan City, Guangdong Province

Date: Sep 27, 2016

Attn: 陈效

**Sample Description:**

Nine (9) pieces of submitted sample said to be :

- Item Name : **Play With Me.**
- Item No. : **BL-11101, BL-00208, BL-00219, BL-00222, BL-00116, BL-00110, BL-00111, BL-11111.**
- Reference No. : **BL-11100, BL-00200.**
- Labelled Age Group : Not Specified.
- Applicant Specified Age : Adult.
- Grading for Testing
- Packaging Provided by Applicant : No.
- Additional Material and Wet Paint Provided : No.
- Date Sample Received : Sep 13, 2016.



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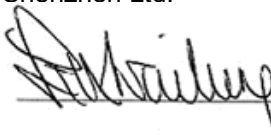

**Tests conducted:**

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

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To be continued

Authorized by:  
For Intertek Testing Services  
Shenzhen Ltd.

Ben N.L. Lin  
General Manager



**Intertek Testing Services Shenzhen Ltd.- Hardlines**

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Attention is drawn to the terms and conditions printed overleaf.



**Test Report**

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**Conclusion:**

Tested Sample  
Tested components of submitted samples

Standard  
Consent Judgment No. RG- 356892 for total Lead content based on the California Proposition 65

Result  
See test conducted

EU REACH Regulation No 1907/2006 Article 33(1) Obligation to provide information of safe use (see REACH requirement in report for details)

Meet requirement

Screening by XRF spectroscopy and chemical confirmation test for RoHS Directive 2011/65/EU

Pass

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Tests Conducted

1 Total Lead Content

Acid digestion method was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (mg/kg)		Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component			
Lead (Pb)	(19)	(25)	10	100
	39	60		

Element	Result (mg/kg)		Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component			
Lead (Pb)	(1)		10	90
	ND			

Element	Result (mg/kg)		Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component			
Lead (Pb)	(2+3+4),(5+6+7),(8+9+10),(11+12+13), (14+15+16),(17+18),(20),(21+22),(23+24)		10	100
	ND			

The above limit was referred to the Consent Judgment No. RG- 356892 settled by superior court of the State of California for the county of Alameda, for toys based on the California Proposition 65.

ND = Not detected

Tested Components :

- (1) Bright silver color coating on plastic (ring of beige and pearl purple styles, body of silver color style).
- (2) Beige plastic (body, cap, ring of beige style).
- (3) Transparent plastic (inner tube of beige and purple styles).
- (4) Semi-transparent white plastic (washer of beige and pearl purple styles).
- (5) Pearl purple plastic (body, cap, ring of pearl purple style).
- (6) Silver color plastic label with transparent plastic film and inaccessible coatings (label).
- (7) Fuchsia plastic (button, body, cap of silver color style).
- (8) Fuchsia plastic (washer of silver color style).
- (9) Orange plastic (washer of orange style).
- (10) Orange plastic (cap, button, body of orange style).
- (11) Green plastic (washer of green style).
- (12) Green plastic (cap, button, body of green style).
- (13) Red plastic (washer of red style).
- (14) Red plastic (cap, button, body of red style).
- (15) Pink plastic (washer of pink style).
- (16) Pink plastic (cap, button, body of pink style).
- (17) Purple plastic (washer of purple style).
- (18) Purple plastic (cap, button, body of purple style).

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Tests Conducted

Tested Components :

- (19) Conformal coating with green solder mask & copper color metal pad & fibreboard (PCB of cap of silver color/green/red/orange/pink/purple styles).
- (20) Plastic parts (electron component of silver color/green/red/orange/pink/purple styles).
- (21) Silver color metal (spring of cap of silver color/green/red/orange/pink/purple styles).
- (22) Copper color metal (contact sheet of silver color/green/red/orange/pink/purple styles).
- (23) Silver color metal (washer of beige and pearl purple styles).
- (24) Silver color metal (spring of beige and pearl purple styles).
- (25) Copper color metal (contact sheet of beige and pearl purple styles).

2 ( I ) SVHC Testing Results

By Inductively Coupled Plasma Optical Emission Spectrometry, Ion Chromatography, UV-Visible Spectrophotometry, Gas Chromatographic - Mass Spectrometry, Liquid Chromatographic - Mass Spectrometry and High Performance Liquid Chromatography analysis.

Chemical Substance	Results % (w/w)	
	Tested groups	Whole product
	(A1)to(A3),(B1)to(B3),(C1)to(C3), (D1)to(D3),(E1)to(E3),(F1)to(F3), (G1)to(G3),(H1)to(H3)	(A),(B),(C),(D),(E),(F),(G),(H)
All tested SVHCs in Chemical list	ND	ND

- SVHC = Substance of very high concern
- ND = Not detected
- Reporting limit = 0.050%
- Δ = Determination was based on elemental analysis. The content was calculated based on assumption of worst-case.

SVHC Chemical list:

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
1	Cobalt Dichloride Δ	7646-79-9	85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5
2	Diarsenic Pentaoxide Δ	1303-28-2	86	Pentacosaflluorotridecanoic acid	72629-94-8
3	Diarsenic Trioxide Δ	1327-53-3	87	Tricosaflluorododecanoic acid	307-55-1

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Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
4	Lead Hydrogen Arsenate Δ	7784-40-9	88	Henicosfluoroundecanoic acid	2058-94-8
5	Triethyl Arsenate Δ	15606-95-8	89	Heptacosfluorotetradecanoic acid	376-06-7
6	Sodium Dichromate Δ	7789-12-0, 10588-01-9	90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3
7	Bis (Tributyltin) Oxide (TBTO) Δ	56-35-9	91	Cyclohexane-1,2-dicarboxylic anhydride [1] cis-cyclohexane-1,2-dicarboxylic anhydride [2] trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry].	85-42-7 13149-00-3 14166-21-3
8	Anthracene	120-12-7	92	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans-stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0 19438-60-9 48122-14-1 57110-29-9

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Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
9	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	93	4-Nonylphenol, branched and linear  [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	--
10	Hexabromocyclodecane (HBCDD) and All Major Diastereoisomers Identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	25637-99-4 and 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated  [covering well-defined substances and UVCB substances, polymers and homologues]	--
11	5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)	81-15-2	95	Methoxyacetic acid	625-45-6
12	Bis (2-Ethylhexyl) Phthalate (DEHP)	117-81-7	96	N,N-dimethylformamide	68-12-2
13	Dibutyl Phthalate (DBP)	84-74-2	97	Dibutyltin dichloride (DBTC) $\Delta$	683-18-1
14	Benzyl Butyl Phthalate (BBP)	85-68-7	98	Lead monoxide (Lead oxide) $\Delta$	1317-36-8
15	Short Chain Chlorinated Paraffins (C <sub>10-13</sub> )	85535-84-8	99	Orange lead (Lead tetroxide) $\Delta$	1314-41-6
16	Lead Chromate $\Delta$	7758-97-6	100	Lead bis(tetrafluoroborate) $\Delta$	13814-96-5
17	Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) $\Delta$	12656-85-8	101	Trilead bis(carbonate)dihydroxide $\Delta$	1319-46-6

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Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
18	Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) Δ	1344-37-2	102	Lead titanium trioxideΔ	12060-00-3
19	Tris (2-Chloroethyl) Phosphate	115-96-8	103	Lead titanium zirconium oxideΔ	12626-81-2
20	2,4-Dinitrotoluene	121-14-2	104	Silicic acid, lead salt Δ	11120-22-2
21	Diisobutyl Phthalate (DIBP)	84-69-5	105	Silicic acid (H <sub>2</sub> SiO <sub>5</sub> ), barium salt (1:1), lead-dopedΔ  [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	68784-75-8
22	Coal Tar Pitch, High Temperature	65996-93-2	106	1-bromopropane (n-propyl bromide)	106-94-5
23	Anthracene Oil	90640-80-5	107	Methyloxirane (Propylene oxide)	75-56-9
24	Anthracene Oil, Anthracene Paste, Distn. Lights	91995-17-4	108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0
25	Anthracene Oil, Anthracene Paste, Anthracene Fraction	91995-15-2	109	Diisopentylphthalate (DIPP)	605-50-5
26	Anthracene Oil, Anthracene-low	90640-82-7	110	N-pentyl-isopentylphthalate	776297-69-9
27	Anthracene Oil, Anthracene Paste	90640-81-6	111	1,2-diethoxyethane	629-14-1
28	Acrylamide	79-06-1	112	Acetic acid, lead salt, basicΔ	51404-69-4
29	Boric Acid Δ	10043-35-3, 11113-50-1	113	Lead oxide sulfateΔ	12036-76-9

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Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
30	Disodium Tetraborate, Anhydrous Δ	1330-43-4, 12179-04-3, 1303-96-4	114	[Phthalato(2-)]dioxotrileadΔ	69011-06-9
31	Tetraboron Disodium Heptaoxide, Hydrate Δ	12267-73-1	115	Dioxobis(stearato)trileadΔ	12578-12-0
32	Sodium Chromate Δ	7775-11-3	116	Fatty acids, C16-18, lead saltsΔ	91031-62-8
33	Potassium Chromate Δ	7789-00-6	117	Lead cynamidateΔ	20837-86-9
34	Ammonium Dichromate Δ	7789-09-5	118	Lead dinitrateΔ	10099-74-8
35	Potassium Dichromate Δ	7778-50-9	119	Pentalead tetraoxide sulphateΔ	12065-90-6
36	Trichloroethylene	79-01-6	120	Pyrochlore, antimony lead yellowΔ	8012-00-8
37	2-Methoxyethanol	109-86-4	121	Sulfurous acid, lead salt, dibasicΔ	62229-08-7
38	2-Ethoxyethanol	110-80-5	122	TetraethylleadΔ	78-00-2
39	Cobalt Sulphate Δ	10124-43-3	123	Tetralead trioxide sulphateΔ	12202-17-4
40	Cobalt Dinitrate Δ	10141-05-6	124	Trilead dioxide phosphonateΔ	12141-20-7
41	Cobalt Carbonate Δ	513-79-1	125	Furan	110-00-9
42	Cobalt Diacetate Δ	71-48-7	126	Diethyl sulphate	64-67-5
43	Chromium Trioxide Δ	1333-82-0	127	Dimethyl sulphate	77-78-1
44	Chromic Acid Δ Dichromic Acid Δ Oligomers of Chromic Acid and Dichromic Acid Δ	7738-94-5 13530-68-2 --	128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2
45	Strontium ChromateΔ	7789-06-2	129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7
46	2-ethoxyethyl acetate (2-EEA)	111-15-9	130	4,4'-methylenedi-o-toluidine	838-88-0
47	1,2-Benzenedicarboxylic acid, di-C <sub>7-11</sub> -branched and linear alkyl esters (DHNUP)	68515-42-4	131	4,4'-oxydianiline and its salts	101-80-4

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Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
48	Hydrazine	7803-57-8 302-01-2	132	4-aminoazobenzene	60-09-3
49	1-methyl-2-pyrrolidone	872-50-4	133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7
50	1,2,3-trichloropropane	96-18-4	134	6-methoxy-m-toluidine (p-cresidine)	120-71-8
51	1,2-Benzenedicarboxylic acid, di-C <sub>6-8</sub> -branched alkyl esters, C <sub>7</sub> -rich (DIHP)	71888-89-6	135	Biphenyl-4-ylamine	92-67-1
52	Lead dipicrate $\Delta$	6477-64-1	136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3
53	Lead styphnate $\Delta$	15245-44-0	137	o-toluidine	95-53-4
54	Lead azide; Lead diazide $\Delta$	13424-46-9	138	N-methylacetamide	79-16-3
55	Phenolphthalein	77-09-8	139	Cadmium $\Delta$	7440-43-9
56	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	140	Cadmium oxide $\Delta$	1306-19-0
57	N,N-dimethylacetamide (DMAC)	127-19-5	141	Dipentyl phthalate (DPP)	131-18-0
58	Trilead diarsenate $\Delta$	3687-31-8	142	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	--

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Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
59	Calcium arsenate $\Delta$	7778-44-1	143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
60	Arsenic acid $\Delta$	7778-39-4	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1
61	Bis(2-methoxyethyl) ether	111-96-6	145	Cadmium sulphide $\Delta$	1306-23-6
62	1,2-Dichloroethane	107-06-2	146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0
63	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	147	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7
64	2-Methoxyaniline; o-Anisidine	90-04-0	148	Dihexyl phthalate (DnHP)	84-75-3
65	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7
66	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	150	Lead di(acetate) $\Delta$	301-04-2
67	Pentazinc chromate octahydroxide $\Delta$	49663-84-5	151	Trixylyl phosphate	25155-23-1
68	Potassium hydroxyoctaoxidizincate di-chromate $\Delta$	11103-86-9	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (Diisohexyl phthalate(DIHP))	68515-50-4
69	Dichromium tris(chromate) $\Delta$	24613-89-6	153	Cadmium chloride $\Delta$	10108-64-2

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Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
70	Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650-017-00-8)	154	Sodium perborate; perboric acid, sodium saltΔ	--
71	Zirconia Aluminosilicate Refractory Ceramic Fibres Δ	(Index No. 650-017-00-8)	155	Sodium peroxometaborateΔ	7632-04-4
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	157	2-benzotriazol-2-yl-4,6-ditert-butylphenol (UV-320)	3846-71-7
74	Diboron trioxideΔ	1303-86-2	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1
75	Formamide	75-12-7	159	Cadmium fluorideΔ	7790-79-6
76	Lead(II) bis(methanesulfonate) Δ	17570-76-2	160	Cadmium sulphateΔ	10124-36-4; 31119-53-6
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	15571-58-1; 27107-89-7

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Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
78	$\beta$ -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq$ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	117933-89-8
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	164	Nitrobenzene	98-95-3
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq$ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1

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Tests Conducted

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3
83	α,α-Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	167	1,3-propanesultone	1120-71-4
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4
--	--	--	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8

As applicant's requirement, materials were screened in composite testing and results were reported in proportion with the whole product weight.

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Tests Conducted

(II) Tested groups:

- (A1):Plastic/PCB material.
- (A2):Plastic magnetic material.
- (A3):Metal material.

- (B1)Plastic/PCB material.
- (B2)Plastic magnetic material.
- (B3)Metal material.

- (C1)Plastic/PCB material.
- (C2)Plastic magnetic material.
- (C3)Metal material.

- (D1)Plastic/PCB material.
- (D2)Plastic magnetic material.
- (D3)Metal material.

- (E1)Plastic/PCB material.
- (E2)Plastic magnetic material.
- (E3)Metal material.

- (F1)Plastic/PCB material.
- (F2)Plastic magnetic material.
- (F3)Metal material.

- (G1) Plastic material.
- (G2) Magnetic material.
- (G3) Metal material.

- (H1) Plastic material.
- (H2) Magnetic material.
- (H3) Metal material.

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Tests Conducted

Notes:

Substances of very high concern (SVHC) are classified as:  
Carcinogenic, mutagenic or toxic to reproduction category 1 (proven on humans) and category 2 (proven on animals)

Persistent, bioaccumulative and toxic chemicals (PBT)

Very persistent and very bioaccumulative chemicals (vPvB)

Other similar substances such as endocrine disrupters

If the imported or manufactured volume of each individual SVHC in article is more than 0.1% (w/w) and if it exceeds 1 tonne per year across all product ranges, then importer or manufacturer require notification to the European Chemical Agency (ECHA). For substances included in the Candidate List on or after 1 December 2010, the notifications have to be submitted no later than 6 months after the inclusion. The following information has to be submitted for notification:

Identification of the registrant and the substance

Classification and labelling of the substance

Description of use of the substance and the article

Registration number, if available

Tonnage range

REACH requirement:

As per article 33(1) of regulation (EC) No. 1907/2006 (REACH), recipients of product must be provided with information of safe use if any of the tested substances (SVHC) exceeded 0.1% (w/w). A product meets the requirement of article 33(1) by default when no SVHC exceeds 0.1% (w/w).

\*\*\*\*\*



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**Test Report**

Number: SZHH01092015

Tests Conducted

3 RoHS Chemical Test

(A) Screening Test by XRF Spectroscopy

Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr) and Bromine (Br) content were measured with reference to IEC 62321-3-1 Edition 1.0 : 2013 by XRF spectroscopy and chemical confirmation test for RoHS restricted substances.

Screened Components	XRF Results		Chemical Confirmation Result
1	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
2	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
3	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
4	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
5	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	

\*\*\*\*\*





**Test Report**

Number: SZHH01092015

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
6	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
7	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
8	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
9	Cd	ND	Cr <sup>6+</sup> : Negative (<0.10µg/cm <sup>2</sup> )
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
10	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
11	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	

\*\*\*\*\*



**Test Report**

Number: SZHH01092015

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
12	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
13	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
14	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
15	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
16a	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
16b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	

\*\*\*\*\*



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**Test Report**

Number: SZHH01092015

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
16c	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
16d	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
16e	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
16f	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
16g	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
16h	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	

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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
16i	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
16j	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
16k	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
16l	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
16m	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
16n	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

\*\*\*\*\*





**Test Report**

Number: SZHH01092015

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
16o	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
16p	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
16q	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
16r	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
16s	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
16t	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	

\*\*\*\*\*



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Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
16u	Cd	ND	Cr <sup>6+</sup> : Negative (<0.10µg/cm <sup>2</sup> )
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
16v	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
16w	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
17	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
18	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
19	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

\*\*\*\*\*



**Test Report**

Number: SZHH01092015

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
20a	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
20b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
20c	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
20d	Cd	ND	Cr <sup>6+</sup> : Negative(<0.10µg/cm <sup>2</sup> )
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
20e	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
21	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

\*\*\*\*\*



**Test Report**

Number: SZHH01092015

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
22	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
23	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
24	Cd	ND	PBBs: ND(<5mg/kg) PBDEs: ND(<5mg/kg)
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
25	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
26	Cd	ND	PBBs: ND(<5mg/kg) PBDEs: ND(<5mg/kg)
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
27	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

\*\*\*\*\*





**Test Report**

Number: SZHH01092015

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
28a	Cd	ND	PBBs: ND(<5mg/kg) PBDEs: ND(<5mg/kg)
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
28b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
29	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
30	Cd	ND	PBBs: ND(<5mg/kg) PBDEs: ND(<5mg/kg)
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	Inconclusive	
31	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
32a	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	

\*\*\*\*\*



**Test Report**

Number: SZHH01092015

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
32b	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
32c	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
32d	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
32e	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
32f	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
32g	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

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**Test Report**

Number: SZHH01092015

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
32h	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
32i	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
32j	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
32k	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
32l	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
32m	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

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**Test Report**

Number: SZHH01092015

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
32n	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
32o	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
32p	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
32q	Cd	ND	Cr <sup>6+</sup> :Negative(<0.10µg/cm <sup>2</sup> )
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
32r	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	NT	
32s	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

\*\*\*\*\*





**Test Report**

Number: SZHH01092015

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
32t	Cd	ND	Cr <sup>6+</sup> :Negative(<0.10µg/cm <sup>2</sup> )
	Pb	ND	
	Hg	ND	
	Cr	Inconclusive	
	Br	NT	
33	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
34	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
35	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
36	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
37	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

\*\*\*\*\*



**Test Report**

Number: SZHH01092015

Tests Conducted

Screened Components	XRF Results		Chemical Confirmation Result
38	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
39	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
40	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
41	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	
42	Cd	ND	NT
	Pb	ND	
	Hg	ND	
	Cr	ND	
	Br	ND	

ND = Not detected

NT = Not tested

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Tests Conducted

Positive = A positive test result indicated the concentration of Cr(VI) is greater than threshold of 0.13µg/cm<sup>2</sup> for boiling-water-extraction procedures by visual comparison / by UV-VIS Spectrophotometer analysis. The sample coating is considered to contain Cr(VI).

Negative = A negative test result indicated the concentration of Cr(VI) is less than threshold of 0.10µg/cm<sup>2</sup> for boiling-water-extraction procedures by UV-VIS Spectrophotometer analysis. The coating is considered a non-Cr(VI) based coating.

(B) XRF Screening Limits in mg/kg for Regulated Elements in Various Matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	P ≤ 70 < X < 130 ≤ F	P ≤ 70 < X < 130 ≤ F	P ≤ 70 < X < 150 ≤ F
Pb	P ≤ 700 < X < 1300 ≤ F	P ≤ 700 < X < 1300 ≤ F	P ≤ 500 < X < 1500 ≤ F
Hg	P ≤ 700 < X < 1300 ≤ F	P ≤ 700 < X < 1300 ≤ F	P ≤ 500 < X < 1500 ≤ F
Cr	P ≤ 700 < X	P ≤ 700 < X	P ≤ 500 < X
Br	P ≤ 300 < X	Not applicable	P ≤ 250 < X

P = Pass

X = Inconclusive result

F = Fail

mg/kg = milligram per kilogram = ppm

(C) Estimated Detection Limits in mg/kg for Regulated Elements in Various Matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	50	70	70
Pb	100	200	200
Hg	100	200	200
Cr	100	200	200
Br	200	Not applicable	200

(D) Chemical Confirmation Test Methods:

Testing Item	Testing Method	Reporting Limit
Polybrominated Biphenyls (PBBs) & Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321-6 Edition 1.0:2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary	5 mg/kg
Chromium (VI) (Cr <sup>6+</sup> ) Content	With reference to IEC 62321-7-1 Edition 1.0:2015, by boiling water extraction and determined by UV-VIS Spectrophotometer	0.10µg/cm <sup>2</sup>

\*\*\*\*\*



**Test Report**

Number: SZHH01092015

Tests Conducted

(E) RoHS Requirement:

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr <sup>6+</sup> )	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)

Tested Components:

- (1) Bright silver color coating on plastic (ring of beige and pearl purple styles, body of silver color style).
- (2) Beige plastic (body, cap, ring of beige style).
- (3) Transparent plastic (inner tube of beige and purple styles).
- (4) Silver color metal (washer of beige and pearl purple styles).
- (5) Silver color metal (spring of beige and pearl purple styles).
- (6) Copper color metal (rivet of beige and pearl purple styles).
- (7) Gold color metal (spring of beige and pearl purple styles).
- (8) Copper color metal (rivet of beige and pearl purple styles).
- (9) Silver grey metal (spring of beige and pearl purple styles).
- (10) Silver color metal (long screw of beige and pearl purple styles).
- (11) Silver color metal (small screw of beige and pearl purple styles).
- (12) Copper color metal (washer of beige and pearl purple styles).
- (13) Semi-transparent white plastic (washer of beige and pearl purple styles).
- (14) Pearl purple plastic (body, cap, ring of pearl purple style).
- (15) Copper color metal (contact sheet of beige and pearl purple styles).

\*\*\*\*\*





**Test Report**

Number: SZHH01092015

Tests Conducted

Tested Components:

- (16) **Motor**
  - (a) Silver color metal (case).
  - (b) Light gold color metal (washer).
  - (c) Black magnetic
  - (d) Silver grey metal.
  - (e) Silver color metal.
  - (f) Silver color metal (cap).
  - (g) Copper color metal.
  - (h) Silver color solder.
  - (i) Light gold color metal.
  - (j) Copper color metal (brush).
  - (k) White plastic (cap).
  - (l) Brown grease.
  - (m) White paper with adhesive.
  - (n) White plastic sheet (washer).
  - (o) Semi-transparent white plastic.
  - (p) Copper color metal.
  - (q) Red plastic sheet (washer).
  - (r) Black magnet with silver color metal & solder & blue printing.
  - (s) White plastic sheet.
  - (t) Red enamelled wire.
  - (u) Silver-grey metal sheet.
  - (v) Silver color metal axle.
  - (w) Copper color metal (washer).
- (17) Silver color plastic label with transparent plastic film and inaccessible coatings (label).
- (18) Fuchsia plastic (button, body, cap of silver color style).
- (19) Fuchsia plastic (washer of silver color style).
- (20) button
  - (a) Black plastic (button).
  - (b) Black plastic (body).
  - (c) Silver color metal (lead).
  - (d) Silver color metal (round sheet).
  - (e) Silver color metal (sheet).
- (21) White ceramic with black material & white printing & silver color metal (SMD resistor)(R1).
- (22) Brown ceramic with silver color metal(SMD capacitor).
- (23) Dark grey ceramic with silver color metal (LV).
- (24) Black plastic with beige printing & silver color metal (U2).
- (25) Black plastic with beige printing & silver color metal (U1).
- (26) Black plastic with beige printing & silver color metal (SMD triode) (Q1).
- (27) Grey ceramic with silver color metal(SMD capacitor).
- (28) **IC**
  - (a) Black plastic with beige printing & silver color metal & material (body).
  - (b) Silver color metal (lead).

\*\*\*\*\*

Tests Conducted

Tested Components:

- (29) Silver color metal (spring).
- (30) Conformal coating with green solder mask & copper color metal pad & fibreboard (PCB).
- (31) Silver color solder (PCB).  
Motor.
- (32) (a) Silver color metal (case).  
(b) Light gold color metal (washer).  
(c) Beige adhesive paper tape.  
(d) Black plastic magnet.  
(e) Light black metal.  
(f) Gold color metal with solder.  
(g) Black plastic.  
(h) Light gold color metal (washer).  
(i) Silver color metal.  
(j) White plastic label.  
(k) White plastic (washer).  
(l) Light green plastic (washer).  
(m) Grey plastic (washer).  
(n) White plastic.  
(o) Silver/copper color metal.  
(p) Black magnet with silver color metal & solder.  
(q) Silver-grey metal.  
(r) Copper color enamelled wire.  
(s) Dull white plastic.  
(t) Silver color metal (axle).
- (33) Orange plastic (washer of orange style).
- (34) Orange plastic (cap, button, body of orange style).
- (35) Green plastic (washer of green style).
- (36) Green plastic (cap, button, body of green style).
- (37) Red plastic (washer of red style).
- (38) Red plastic (cap, button, body of red style).
- (39) Pink plastic (washer of pink style).
- (40) Pink plastic (cap, button, body of pink style).
- (41) Purple plastic (washer of purple style).
- (42) Purple plastic (cap, button, body of purple style).

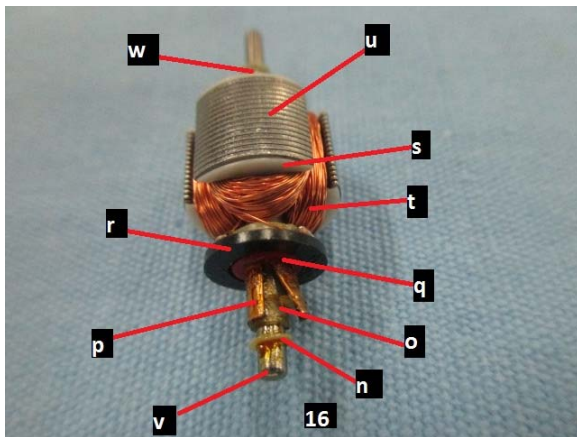
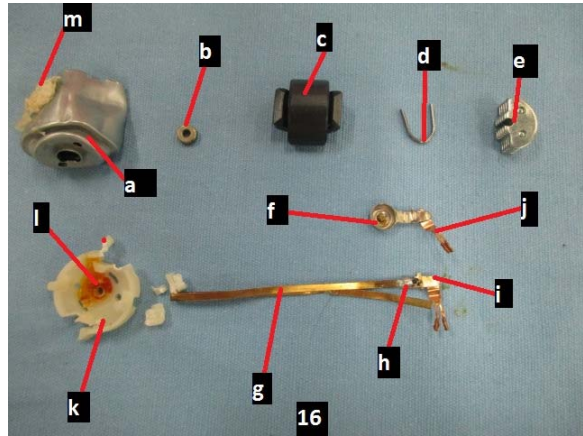
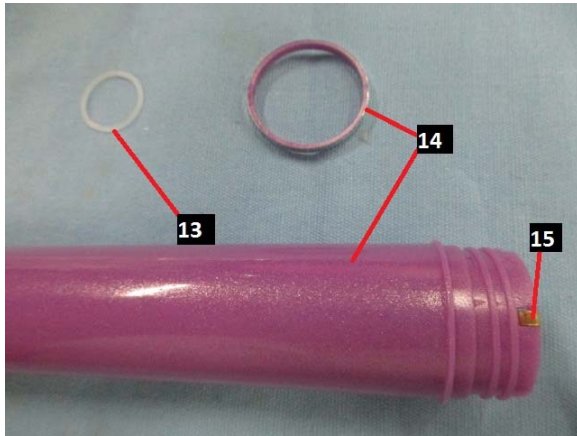
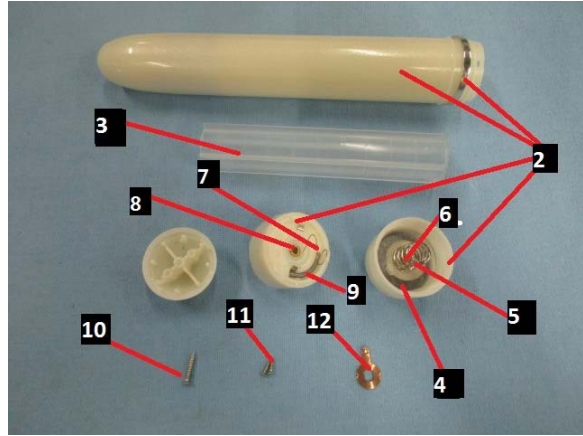
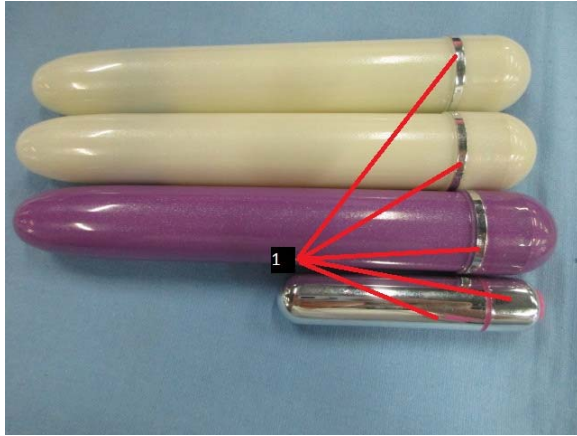
**Disclaimers:**

This XRF Screening and Chemical Confirmation Test Report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF Screening and Chemical Confirmation Test Report is sufficient for its/his/her purposes.

The results shown in this XRF Screening and Chemical Confirmation Test Report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis is required to obtain quantitative data.

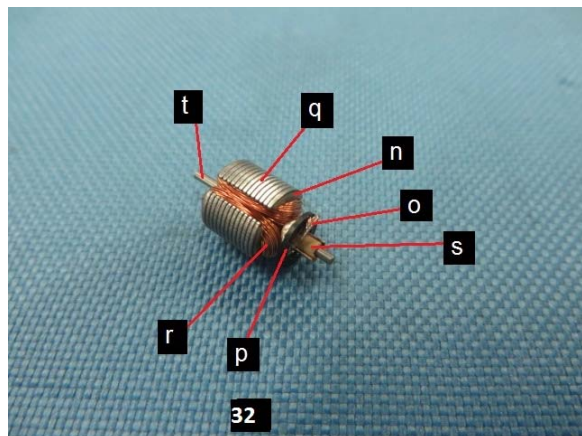
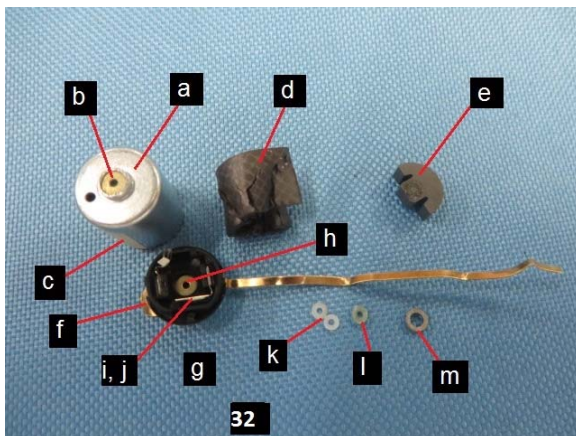
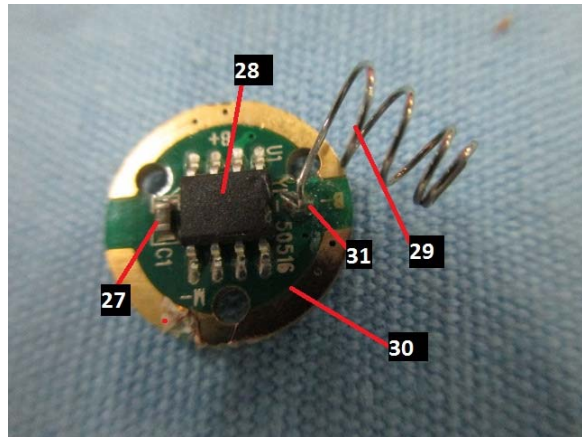
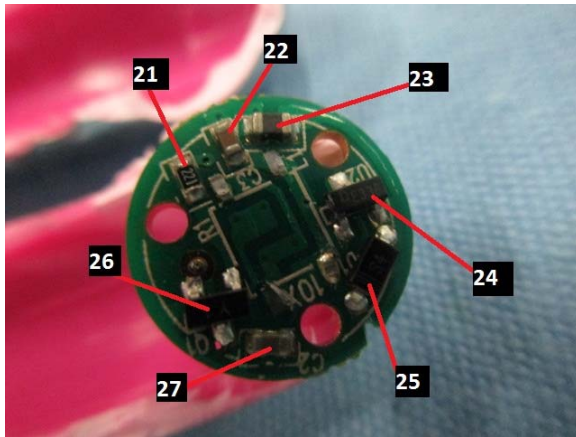
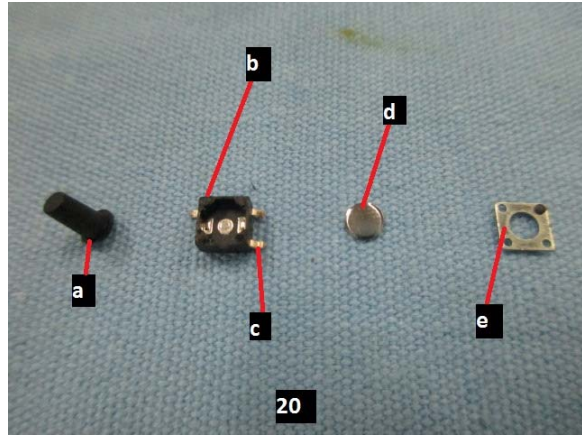
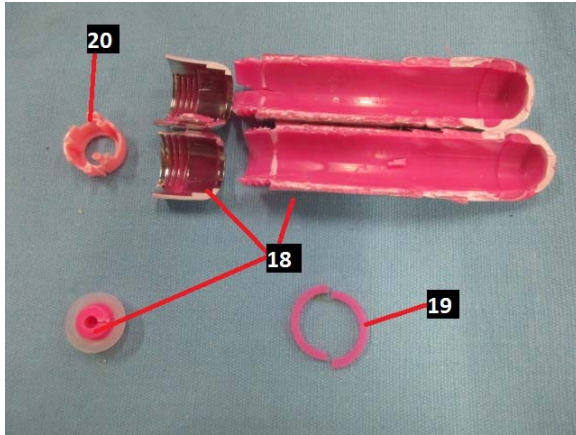
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Tests Conducted



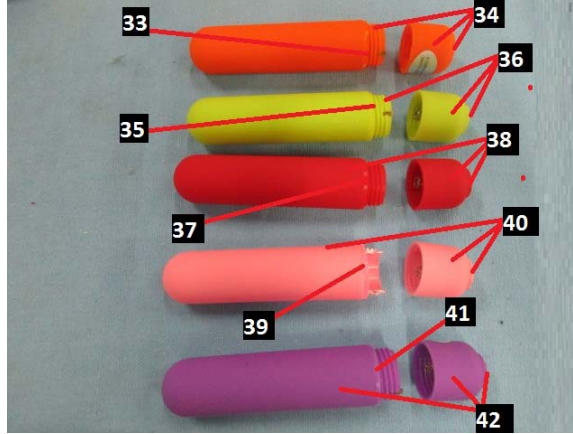
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Tests Conducted



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Tests Conducted



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End of report

*This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.*