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检测
TESTING
CNAS L2929

Test Report

No.T51910233191TC

Date: JUN 10, 2019

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HUAJIA TECHNOLOGY INDUSTRY CO.,LTD.
JIAFA MANSION, NO. 9, GUANGYI ROAD, CHENGHAI DISTRICT,
SHANTOU CITY, GAUNGDONG PROVINCE, CHINA

The results of this report are extracted from the test report number T51910233166TC where the sample(s) / material(s) of sample is(are) claimed to be identical.

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

REMOTE CONTROL TOYS

Item No. : RC1101, RC1102, RC1103, RC1104, RC1105, RC1106, RC1107, RC1108, RC1109, RC1110, RC1111, RC1112, RC1113, RC1114, RC1115, RC1116, RC1117, RC1118, RC1119, RC1120, RC1121, RC1122, RC1123, RC1124, RC1125, RC1126, RC1127, RC1128, RC1129, RC1130, RC1131, RC1132, RC1133, RC1134, RC1135, RC1136, RC1137, RC1138, RC1139, RC1140, RC1141, RC1142, RC1143, RC1144, RC1145, RC1146, RC1147, RC1148, RC1149, RC1150, RC1151, RC1152, RC1153, RC1154, RC1155, RC1156, RC1157, RC1158, RC1159, RC1160, RC1161, RC1162, RC1163, RC1164, RC1165, RC1166, RC1167, RC1168, RC1169, RC1170, RC1171, RC1172, RC1173, RC1174, RC1175, RC1176, RC1177, RC1178, RC1179, RC1180

Sample Receiving Date : APR 30, 2019

Last Submission Sample Date : MAY 31, 2019

Further Information Date : JUN 10, 2019

Testing Period : APR 30, 2019 TO JUN 09, 2019



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Test Requested	Conclusion
1. European RoHS Directive 2015/863/EU amending Annex II to Directive 2011/65/EU – Certain hazardous substances	--
Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) Content Screening by X-ray fluorescence spectrometry and analysis by wet chemical	PASS
Phthalate Content	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




T51910233191TC

Qu Ping, Kiky
 Dept. Manager
 CNAS Approved Signatory



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Results:
1.1 EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU (RoHS, Previously 2002/95/EC) - XRF

Method: With reference to IEC 62321-3-1:2013

Analysis was performed by X-ray Fluorescence Spectrometry (XRF)

No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
1	Blue rubber (Wheel)	BL	BL	BL	BL	BL	PASS
2	Yellow green plastic shell	BL	BL	BL	BL	BL	PASS
3	Black plastic ring	BL	BL	BL	BL	BL	PASS
4	Black plastic fixed part	BL	BL	BL	BL	BL	PASS
5	White plastic gear	BL	BL	BL	BL	BL	PASS
6	Keely plastic (Wheel)	BL	BL	BL	BL	BL	PASS
7	White plastic fixed part	BL	BL	BL	BL	BL	PASS
8	Silvery metal shaft	BL	BL	BL	NA	BL	PASS
9	Lt. Green plastic (Wheel)	BL	BL	BL	BL	BL	PASS
10	Black rubber (Wheel)	BL	BL	BL	BL	BL	PASS
11	Black plastic shell	BL	BL	BL	BL	BL	PASS
12	Green plastic shell	BL	BL	BL	BL	BL	PASS
13	Silvery metal bead	BL	BL	BL	NA	BL	PASS
14	Gray plastic ring	BL	BL	BL	BL	BL	PASS
15	Silvery metal spring	BL	BL	BL	NA	BL	PASS
16	Black plastic shell (Remote control) (Submitted on May 31, 2019)	BL	BL	BL	X	BL	Refer to chemical method
17	Red plastic part (Remote control)	BL	BL	BL	BL	BL	PASS
18	Dull silvery metal spring	BL	BL	BL	NA	BL	PASS
19	Crystal oscillatorbody	BL	BL	BL	BL	BL	PASS
20	Transparent white plastic tube	BL	BL	BL	BL	BL	PASS
21	Transparent red LED body	BL	BL	BL	X	BL	Refer to chemical method
22	Silvery metal pin (LED)	BL	BL	BL	NA	BL	PASS
23	Black plastic terminal (Push switch)	BL	BL	BL	BL	BL	PASS
24	Silvery metal quadrate plate (Push switch)	BL	BL	BL	NA	BL	PASS
25	Silvery metal round plate (Push switch)	BL	BL	BL	NA	BL	PASS
26	Black plastic frame (Push switch)	BL	BL	BL	X	BL	Refer to chemical method
27	Silvery metal pin (Push switch)	BL	BL	BL	NA	BL	PASS
28	Brown PCB w/ green & white printing (Remote control)	BL	BL	BL	BL	BL	PASS
29	Silvery metal solder (Brown PCB of remote control)	BL	BL	BL	NA	BL	PASS



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No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
30	Black chip IC (16pins)	BL	BL	BL	BL	BL	PASS
31	Silvery metal electrode plate (Battery compartment)	BL	BL	BL	NA	BL	PASS
32	Silvery metal spring (Battery compartment)	BL	BL	BL	NA	BL	PASS
33	Black plastic shell (USB)	BL	BL	BL	BL	BL	PASS
34	Silvery metal shell (USB)	BL	BL	BL	NA	BL	PASS
35	Yellow "PCB" w/ green printing (USB)	BL	BL	BL	X	BL	Refer to chemical method
36	Black chip IC (8pins) (USB) (Submitted on May 20, 2019)	BL	BL	BL	BL	BL	PASS
37	Black diode (USB) (Submitted on May 20, 2019)	BL	BL	BL	X	BL	Refer to chemical method
38	Black magnet core (USB)	BL	BL	BL	X	BL	Refer to chemical method
39	Copper metal coil (USB)	BL	BL	BL	NA	BL	PASS
40	Black plastic frame (Plug)	BL	BL	BL	BL	BL	PASS
41	Silvery metal pin (Plug)	BL	BL	BL	NA	BL	PASS
42	Lt. Green plastic sheet (Battery)	BL	BL	BL	BL	BL	PASS
43	Silvery metal electrode (Battery)	BL	BL	BL	NA	BL	PASS
44	Silvery metal solder (Battery)	BL	BL	BL	NA	BL	PASS
45	Black plastic frame (socket)	BL	BL	BL	X	BL	Refer to chemical method
46	Silvery metal pin (Socket)	BL	BL	BL	NA	BL	PASS
47	Green plastic (Wheel)	BL	BL	BL	BL	BL	PASS
48	Gray plastic shell	BL	BL	BL	BL	BL	PASS
49	Silvery metal solder (Motor)	BL	BL	BL	NA	BL	PASS
50	Brown capacitor body w/ black printing (Submitted on May 20, 2019)	BL	BL	BL	BL	BL	PASS
51	Silvery metal pin (Brown capacitor)	BL	X	BL	BL	BL	Refer to chemical method
52	Cream plastic cover (Motor)	BL	BL	BL	BL	BL	PASS
53	Silvery metal shell (Motor)	BL	BL	BL	NA	BL	PASS
54	Black magnet (Motor)	BL	BL	BL	BL	BL	PASS
55	Copper metal brush (Motor)	BL	BL	BL	NA	BL	PASS
56	Dull silvery "U" shaped metal part (Motor)	BL	BL	BL	NA	BL	PASS
57	Copper metal washer (Motor)	BL	BL	BL	NA	BL	PASS
58	Silvery metal shaft (Motor)	BL	BL	BL	NA	BL	PASS



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No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
59	White plastic rotor plate (Motor)	BL	BL	BL	BL	BL	PASS
60	Silvery metal rotor plate (Motor)	BL	BL	BL	NA	X	Refer to chemical method
61	Beige plastic bushing (Motor)	BL	BL	BL	BL	BL	PASS
62	Copper metal coil (Motor)	BL	BL	BL	NA	BL	PASS
63	Golden metal washer (Motor)	BL	BL	BL	NA	BL	PASS
64	Copper metal tube plate (Motor)	BL	BL	BL	NA	BL	PASS
65	Copper metal core wire	BL	BL	BL	NA	BL	PASS
66	Black chip IC (8pins) (Big)	BL	BL	BL	X	BL	Refer to chemical method
67	Cream plastic frame (Plug)	BL	BL	BL	X	BL	Refer to chemical method
68	White plastic frame (socket)	BL	BL	BL	BL	BL	PASS
69	Silvery metal pin (Small plug)	BL	BL	BL	NA	BL	PASS
70	Silvery metal pin (Small socket)	BL	BL	BL	NA	BL	PASS
71	Black heat shrinkable tube LED	BL	BL	BL	BL	BL	PASS
72	Transparent LEDbody	BL	BL	BL	X	BL	Refer to chemical method
73	Black plastic sheet w/ white printing (Electrolytic capacitor)	BL	BL	BL	BL	BL	PASS
74	Silvery metal shell (Electrolytic capacitor)	BL	BL	BL	NA	BL	PASS
75	Black rubber stopper (Electrolytic capacitor)	BL	BL	BL	BL	BL	PASS
76	Brown wet paper (Electrolytic capacitor)	BL	BL	BL	BL	BL	PASS
77	Silvery foil (Electrolytic capacitor)	BL	BL	BL	NA	BL	PASS
78	Silvery metal pin (Electrolytic capacitor)	BL	BL	BL	NA	BL	PASS
79	Red plastic terminal (Slide switch)	BL	BL	BL	BL	BL	PASS
80	Silvery metal shell (Slide switch)	BL	BL	BL	NA	BL	PASS
81	Brown hard board (Slide switch)	BL	BL	BL	BL	BL	PASS
82	Silvery "U" shaped metal part (Slide switch)	BL	BL	BL	NA	BL	PASS
83	Silvery metal spring (Slide switch)	BL	BL	BL	NA	BL	PASS
84	Silvery metal pin (Slide switch)	BL	BL	BL	NA	BL	PASS
85	Lt. Brown PCB w/ green & black printing (Car)	BL	BL	BL	X	BL	Refer to chemical method
86	Silvery metal solder (Car Lt. Brown PCB)	BL	BL	BL	NA	BL	PASS
87	Translucent white plastic cover (Motor)	BL	BL	BL	BL	BL	PASS



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No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
88	Silvery metal round plate	BL	BL	BL	NA	X	Refer to chemical method
89	Brown PCB w/ green & white printing (Car)	BL	BL	BL	BL	BL	PASS
90	Silvery metal solder (Car brown PCB)	BL	BL	BL	NA	BL	PASS
91	Beige plastic gear	BL	BL	BL	BL	BL	PASS
92	Red rubber (Wheel)	BL	BL	BL	BL	BL	PASS
93	Blue plastic shell	BL	BL	BL	BL	BL	PASS
94	Dk. Blue plastic shell	BL	BL	BL	BL	BL	PASS
95	Dk. Blue plastic (Wheel)	BL	BL	BL	BL	BL	PASS
96	Dk. Red plastic shell	BL	BL	BL	BL	BL	PASS
97	Red plastic (Wheel)	BL	BL	BL	BL	BL	PASS
98	Dk. Red plastic (Wheel)	BL	BL	BL	BL	BL	PASS
99	Army-green plastic shell	BL	BL	BL	BL	BL	PASS
100	Army-green plastic (Wheel)	BL	BL	BL	BL	BL	PASS
101	Khaki plastic shell	BL	BL	BL	BL	BL	PASS
102	Khaki plastic (Wheel)	BL	BL	BL	BL	BL	PASS
103	Dull silvery metal cap screw	BL	BL	BL	NA	BL	PASS
104	Silvery metal screw	BL	BL	BL	NA	BL	PASS
105	Dull silvery metal screw	BL	BL	BL	NA	BL	PASS
106	Silvery metal screw w/ black surface	BL	BL	BL	NA	X	Refer to chemical method
107	Black plastic (Outside) (Wire jacket)	BL	BL	BL	BL	BL	PASS
108	Black plastic (Inside) (Wire jacket)	BL	BL	BL	BL	BL	PASS
109	Black plastic (Inside) (Wire jacket) (Big)	BL	BL	BL	BL	BL	PASS
110	Black plastic (Inside) (Wire jacket) (Small)	BL	BL	BL	BL	BL	PASS
111	Red plastic (Inside) (Wire jacket)	BL	BL	BL	BL	BL	PASS
112	Red plastic (Inside) (Wire jacket) (Big)	BL	BL	BL	BL	BL	PASS
113	Red plastic (Inside) (Wire jacket) (Small)	BL	BL	BL	BL	BL	PASS
114	Transparent plastic (Inside) (Wire jacket) (Submitted on May 20, 2019)	BL	BL	BL	BL	BL	PASS
115	Black (Flat cable) (Big)	BL	BL	BL	BL	BL	PASS
116	Blue (Flat cable)	BL	BL	BL	BL	BL	PASS
117	Red (Flat cable)	BL	BL	BL	BL	BL	PASS
118	White (Flat cable)	BL	BL	BL	BL	BL	PASS
119	Black (Flat cable) (Small)	BL	BL	BL	BL	BL	PASS
120	Silvery metal core wire	BL	BL	BL	NA	BL	PASS



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RoHS Restricted Substances	Maximum Concentration Value (by weight in homogenous materials)
Lead (Pb)	0.1%
Cadmium (Cd)	0.01%
Mercury (Hg)	0.1%
Hexavalent Chromium (Cr VI)	0.1%
Polybrominated biphenyls (PBBs)	0.1%
Polybrominated diphenylethers (PBDEs)	0.1%

Remark: (1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for CrVI) and GC/MS (for PBBs/PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	mg/kg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	mg/kg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	mg/kg	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$
Cr	mg/kg	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

BL = Below Limit by XRF analysis

OL = Over Limit by XRF analysis

X = Inconclusive

LOD = Limit of Detection

NA = Not Applicable

1% = 10000 mg/kg = 10000 ppm

- (2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- (3) The maximum permissible limit is quoted from the EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU



EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU (RoHS, Previously 2002/95/EC) - Wet Chemical for Lead, Hexavalent Chromium, PBBs & PBDEs content

Method: With reference to IEC62321-5:2013, IEC62321-7-1:2015, IEC62321-6:2015

For Lead, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) / Atomic Absorption Spectrometer (AAS)

For Hexavalent Chromium, analysis was performed by Ultraviolet Visible Spectrophotometer (UV-Vis)

For PBBs & PBDEs, analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS)

Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	16	21	26		
Lead (Pb)	--	--	--	10	1000
Hexavalent Chromium (CrVI) by boiling water extraction	--	--	--	See Note	#
Sum of PBBs	ND	ND	ND	--	1000
Monobromobiphenyl	ND	ND	ND	100	--
Dibromobiphenyl	ND	ND	ND	100	--
Tribromobiphenyl	ND	ND	ND	100	--
Tetrabromobiphenyl	ND	ND	ND	100	--
Pentabromobiphenyl	ND	ND	ND	100	--
Hexabromobiphenyl	ND	ND	ND	100	--
Heptabromobiphenyl	ND	ND	ND	100	--
Octabromobiphenyl	ND	ND	ND	100	--
Nonabromobiphenyl	ND	ND	ND	100	--
Decabromobiphenyl	ND	ND	ND	100	--
Sum of PBDEs	318	ND	ND	--	1000
Monobromodiphenyl ether	ND	ND	ND	100	--
Dibromodiphenyl ether	ND	ND	ND	100	--
Tribromodiphenyl ether	ND	ND	ND	100	--
Tetrabromodiphenyl ether	ND	ND	ND	100	--
Pentabromodiphenyl ether	ND	ND	ND	100	--
Hexabromodiphenyl ether	ND	ND	ND	100	--
Heptabromodiphenyl ether	ND	ND	ND	100	--
Octabromodiphenyl ether	ND	ND	ND	100	--
Nonabromodiphenyl ether	ND	ND	ND	100	--
Decabromodiphenyl ether	318	ND	ND	100	--
Comment	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	35	37	38		
Lead (Pb)	--	--	--	10	1000
Hexavalent Chromium (CrVI) by boiling water extraction	--	--	--	See Note	#
Sum of PBBs	ND	ND	ND	--	1000
Monobromobiphenyl	ND	ND	ND	100	--
Dibromobiphenyl	ND	ND	ND	100	--
Tribromobiphenyl	ND	ND	ND	100	--
Tetrabromobiphenyl	ND	ND	ND	100	--
Pentabromobiphenyl	ND	ND	ND	100	--
Hexabromobiphenyl	ND	ND	ND	100	--
Heptabromobiphenyl	ND	ND	ND	100	--
Octabromobiphenyl	ND	ND	ND	100	--
Nonabromobiphenyl	ND	ND	ND	100	--
Decabromobiphenyl	ND	ND	ND	100	--
Sum of PBDEs	ND	ND	ND	--	1000
Monobromodiphenyl ether	ND	ND	ND	100	--
Dibromodiphenyl ether	ND	ND	ND	100	--
Tribromodiphenyl ether	ND	ND	ND	100	--
Tetrabromodiphenyl ether	ND	ND	ND	100	--
Pentabromodiphenyl ether	ND	ND	ND	100	--
Hexabromodiphenyl ether	ND	ND	ND	100	--
Heptabromodiphenyl ether	ND	ND	ND	100	--
Octabromodiphenyl ether	ND	ND	ND	100	--
Nonabromodiphenyl ether	ND	ND	ND	100	--
Decabromodiphenyl ether	ND	ND	ND	100	--
Comment	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	45	51	60		
Lead (Pb)	--	49	--	10	1000
Hexavalent Chromium (CrVI) by boiling water extraction	--	--	Negative	See Note	#
Sum of PBBs	ND	--	--	--	1000
Monobromobiphenyl	ND	--	--	100	--
Dibromobiphenyl	ND	--	--	100	--
Tribromobiphenyl	ND	--	--	100	--
Tetrabromobiphenyl	ND	--	--	100	--
Pentabromobiphenyl	ND	--	--	100	--
Hexabromobiphenyl	ND	--	--	100	--
Heptabromobiphenyl	ND	--	--	100	--
Octabromobiphenyl	ND	--	--	100	--
Nonabromobiphenyl	ND	--	--	100	--
Decabromobiphenyl	ND	--	--	100	--
Sum of PBDEs	ND	--	--	--	1000
Monobromodiphenyl ether	ND	--	--	100	--
Dibromodiphenyl ether	ND	--	--	100	--
Tribromodiphenyl ether	ND	--	--	100	--
Tetrabromodiphenyl ether	ND	--	--	100	--
Pentabromodiphenyl ether	ND	--	--	100	--
Hexabromodiphenyl ether	ND	--	--	100	--
Heptabromodiphenyl ether	ND	--	--	100	--
Octabromodiphenyl ether	ND	--	--	100	--
Nonabromodiphenyl ether	ND	--	--	100	--
Decabromodiphenyl ether	ND	--	--	100	--
Comment	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	66	67	72		
Lead (Pb)	--	--	--	10	1000
Hexavalent Chromium (CrVI) by boiling water extraction	--	--	--	See Note	#
Sum of PBBs	ND	ND	ND	--	1000
Monobromobiphenyl	ND	ND	ND	100	--
Dibromobiphenyl	ND	ND	ND	100	--
Tribromobiphenyl	ND	ND	ND	100	--
Tetrabromobiphenyl	ND	ND	ND	100	--
Pentabromobiphenyl	ND	ND	ND	100	--
Hexabromobiphenyl	ND	ND	ND	100	--
Heptabromobiphenyl	ND	ND	ND	100	--
Octabromobiphenyl	ND	ND	ND	100	--
Nonabromobiphenyl	ND	ND	ND	100	--
Decabromobiphenyl	ND	ND	ND	100	--
Sum of PBDEs	ND	ND	ND	--	1000
Monobromodiphenyl ether	ND	ND	ND	100	--
Dibromodiphenyl ether	ND	ND	ND	100	--
Tribromodiphenyl ether	ND	ND	ND	100	--
Tetrabromodiphenyl ether	ND	ND	ND	100	--
Pentabromodiphenyl ether	ND	ND	ND	100	--
Hexabromodiphenyl ether	ND	ND	ND	100	--
Heptabromodiphenyl ether	ND	ND	ND	100	--
Octabromodiphenyl ether	ND	ND	ND	100	--
Nonabromodiphenyl ether	ND	ND	ND	100	--
Decabromodiphenyl ether	ND	ND	ND	100	--
Comment	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	85	88	106		
Lead (Pb)	--	--	--	10	1000
Hexavalent Chromium (CrVI) by boiling water extraction	--	Negative	Negative	See Note	#
Sum of PBBs	ND	--	--	--	1000
Monobromobiphenyl	ND	--	--	100	--
Dibromobiphenyl	ND	--	--	100	--
Tribromobiphenyl	ND	--	--	100	--
Tetrabromobiphenyl	ND	--	--	100	--
Pentabromobiphenyl	ND	--	--	100	--
Hexabromobiphenyl	ND	--	--	100	--
Heptabromobiphenyl	ND	--	--	100	--
Octabromobiphenyl	ND	--	--	100	--
Nonabromobiphenyl	ND	--	--	100	--
Decabromobiphenyl	ND	--	--	100	--
Sum of PBDEs	ND	--	--	--	1000
Monobromodiphenyl ether	ND	--	--	100	--
Dibromodiphenyl ether	ND	--	--	100	--
Tribromodiphenyl ether	ND	--	--	100	--
Tetrabromodiphenyl ether	ND	--	--	100	--
Pentabromodiphenyl ether	ND	--	--	100	--
Hexabromodiphenyl ether	ND	--	--	100	--
Heptabromodiphenyl ether	ND	--	--	100	--
Octabromodiphenyl ether	ND	--	--	100	--
Nonabromodiphenyl ether	ND	--	--	100	--
Decabromodiphenyl ether	ND	--	--	100	--
Comment	PASS	PASS	PASS	--	--



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- Note:
- mg/kg = milligram per kilogram
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - -- = Not Conducted
 - Negative = The Cr(VI) concentration is below 0.10ug/cm². The coating is considered a non- Cr(VI) based coating.
 - Positive = The Cr(VI) concentration is above 0.13ug/cm² and the statistical margin of error. The coating is considered to contain Cr(VI).
 - Inconclusive = The Cr(VI) concentration is between the value of 0.10ug/cm² to 0.13ug/cm². Unavoidable coating variations may influence the determination. Additional 3 trials should be tested, use the averaged result of the 3 trials for the final determination.
 - Storage conditions and production date of the tested sample are unavailable and thus results of Cr(VI) represent status of the sample at the time of testing
 - # Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as conflict with RoHS requirement. Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as no conflict with RoHS requirement.
 - The maximum permissible limit is quoted from the EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU

1.2 Phthalates Content

Method: With reference to IEC 62321-8:2017

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

Test Item(s)	CAS No.	Result(s) (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
		1	2		
Specimen No.	--				
Dibutyl Phthalate (DBP)	84-74-2	BL	BL	600	1000
Benzylbutyl Phthalate (BBP)	85-68-7	BL	BL	600	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	BL	BL	600	1000
Diisobutyl phthalate (DIBP)	84-69-5	BL	BL	600	1000



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Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
		3	4	5		
Specimen No.	--					
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
		6	7	8		
Specimen No.	--					
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
		9	10	11		
Specimen No.	--					
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
		12	13	14		
Specimen No.	--					
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000



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Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
		15	16	17		
Specimen No.	--					
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
		18	19	20		
Specimen No.	--					
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
		21	22	23		
Specimen No.	--					
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	230	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
		24	25	26		
Specimen No.	--					
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000



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Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
		27	28	29		
Specimen No.	--					
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
		30	31	32		
Specimen No.	--					
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	100	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
		33	34		
Specimen No.	--				
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	100	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
		35	36		
Specimen No.	--				
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	100	1000



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Specimen Description:

1. Yellow green plastic shell+Black plastic fixed part+White plastic gear+Keely plastic (Wheel)+White plastic fixed part+Lt. Green plastic (Wheel)+Black plastic shell+Green plastic shell+Red plastic part (Remote control)+Crystal oscillatorbody+Transparent white plastic tube+Brown PCB w/ green & white printing (Remote control)+Black chip IC (16pins)+Black plastic shell (USB)+Yellow "PCB" w/ green printing (USB)+Black plastic frame (Plug)+Lt. Green plastic sheet (Battery)+Black plastic frame (socket)+Green plastic (Wheel)
2. Gray plastic shell+Cream plastic cover (Motor)+Beige plastic bushing (Motor)+Black chip IC (8pins) (Big)+Transparent LEDbody+Red plastic terminal (Slide switch)+Lt. Brown PCB w/ green & black printing (Car)+Translucent white plastic cover (Motor)+Brown PCB w/ green & white printing (Car)+Beige plastic gear+Blue plastic shell+Dk. Blue plastic shell+Dk. Blue plastic (Wheel)+Dk. Red plastic shell+Red plastic (Wheel)+Dk. Red plastic (Wheel)+Army-green plastic shell+Army-green plastic (Wheel)+Khaki plastic shell+Khaki plastic (Wheel)
3. Blue rubber (Wheel)
4. Black plastic ring
5. Black rubber (Wheel)
6. Gray plastic ring
7. Transparent red LED body
8. Black plastic terminal (Push switch)
9. Black plastic frame (Push switch)
10. Black chip IC (8pins) (USB) (Submitted on May 20, 2019)
11. Black diode (USB) (Submitted on May 20, 2019)
12. Black magnet core (USB)
13. Brown capacitor body w/ black printing (Submitted on May 20, 2019)
14. White plastic rotor plate (Motor)
15. Cream plastic frame (Plug)
16. White plastic frame (socket)
17. Black heat shrinkable tube LED
18. Black plastic sheet w/ white printing (Electrolytic capacitor)
19. Black rubber stopper (Electrolytic capacitor)
20. Brown wet paper (Electrolytic capacitor)
21. Brown hard board (Slide switch)
22. Red rubber (Wheel)
23. Black plastic (Outside) (Wire jacket)
24. Black plastic (Inside) (Wire jacket)



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Specimen Description:





- 25. Black plastic (Inside) (Wire jacket) (Big)
- 26. Black plastic (Inside) (Wire jacket) (Small)
- 27. Red plastic (Inside) (Wire jacket)
- 28. Red plastic (Inside) (Wire jacket) (Big)
- 29. Red plastic (Inside) (Wire jacket) (Small)
- 30. Transparent plastic (Inside) (Wire jacket) (Submitted on May 20, 2019)
- 31. Black (Flat cable) (Big)
- 32. Blue (Flat cable)
- 33. Red (Flat cable)
- 34. White (Flat cable)
- 35. Black (Flat cable) (Small)
- 36. Black plastic shell (Remote control) (Submitted on May 31, 2019)

Note: - Screening results of PHTH are for primary screening, and further chemical testing by GC-MS (for DBP, BBP, DEHP and DIBP) are recommended to be performed if the concentration exceeds the below warning value (unit: mg/kg).

Compound	Polymer
DBP	BL ≤ 600 < X
BBP	BL ≤ 600 < X
DEHP	BL ≤ 600 < X
DIBP	BL ≤ 600 < X

- BL = Below MDL of screening test
- X = Inconclusive
- mg/kg = milligram per kilogram
- 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.



Sample Picture (As received)	
Pic.1	Pic.2
	
Pic.3	Pic.4
	



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Sample Picture (As received)

Pic.5



Pic.6



Pic.7



Pic.8

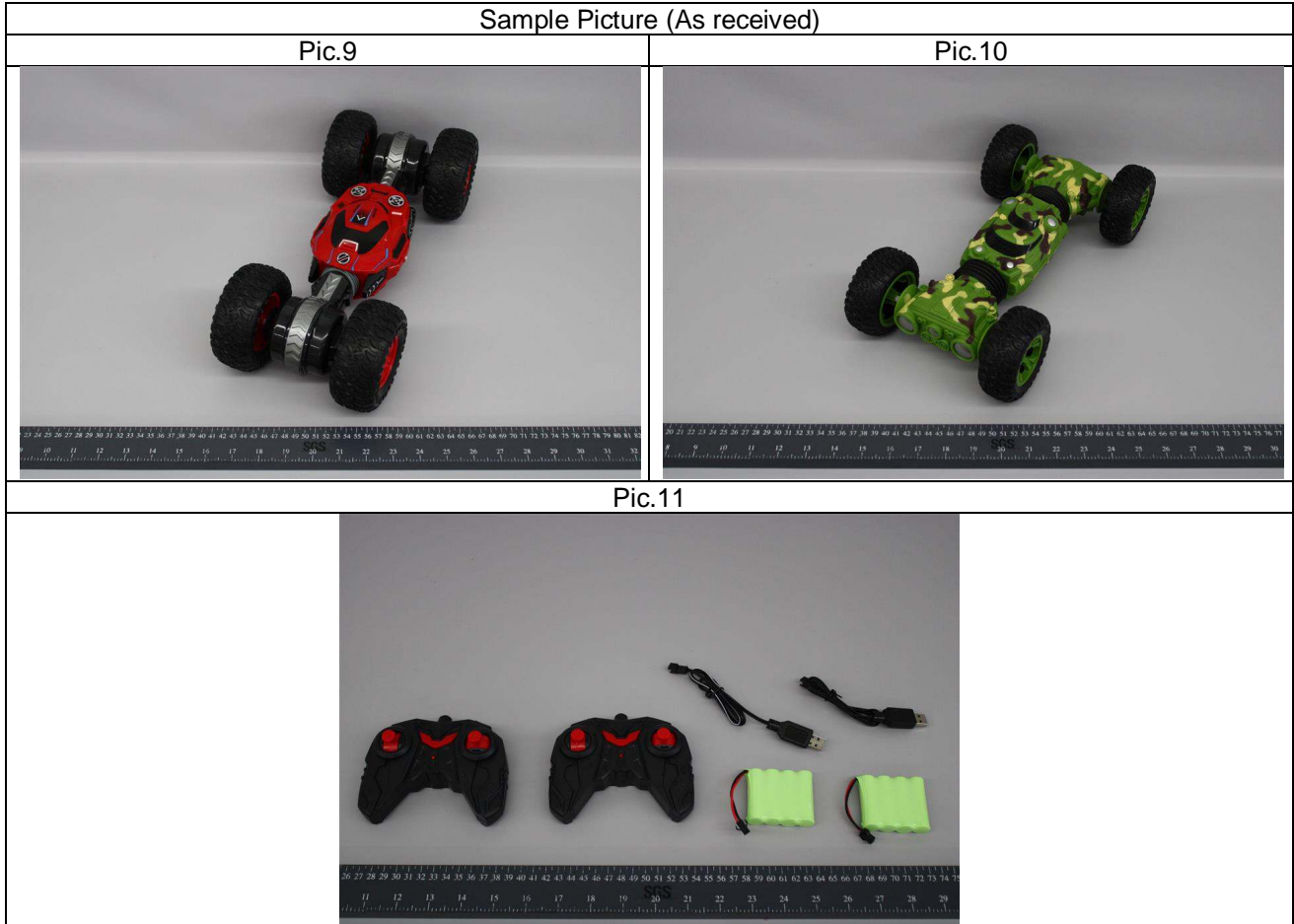


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*** End of Report ***



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