



## Test Report

No.T51910221077TC

Date: APR 19, 2019

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DOUBLEEAGLE INDUSTRY (CHINA) LIMITED  
XINGDA INDUSTRIAL PARK, CHENGHAI DISTRICT,  
SHANTOU CITY, GUANGDONG PROVINCE, CHINA

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

### RADIO CONTROL TOYS

Item No. : E220-003, E226-003, E227-003, E228-003, E229-003, E230-003, E221-003,  
E222-003, E223-003, E224-003, E225-003, E229-003, E232-003, E233-003,  
E234-003, E250-003, E251-003, E252-003, E253-003, E254-003, E261-003,  
E262-003, E263-003, E264-003, E265-003, E271-003, E272-003, E273-003,  
E274-003, E275-003, E350-003, E351-003, E352-003, E353-003, E354-003,  
E355-003, E356-003, E357-003, E358-003, E361-003, E362-003, E363-003,  
S052-003, S053-003, E511-003, E516-003, E517-003, E518-003, E519-003,  
E520-003, E521-003, E522-003, E523-003, E524-003, E525-003, E526-003,  
E527-003, E528-003, E529-003, E547-003, E548-003, E549-003, E550-003,  
E551-003, E557-003, E558-003, E559-003, E560-003, E561-003, E562-003,  
E563-003, E564-003, E565-003, E566-003, E567-003, E568-003, E569-003,  
E570-003, E571-003, E572-003

Supplier : DOUBLEEAGLE INDUSTRY (CHINA) LIMITED

Manufacturer : DOUBLEEAGLE INDUSTRY (CHINA) LIMITED

Country of Origin : CHINA

Requested Age Grading : 3+

Sample Receiving Date : MAR 13, 2019

Last Submission Sample Date : APR 11, 2019

Testing Period : MAR 13, 2019 TO APR 18, 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	--
1.1	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
1.2	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




Qu Ping, Kiky  
 Dept. Manager



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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	White laminated label paper w/ multi-color printing	BL	BL	BL	BL	BL	PASS
2	Black coating	BL	BL	BL	BL	BL	PASS
3	Yellow plastic shell (Body)	BL	BL	BL	BL	BL	PASS
4	Black plastic shell (Pedestal)	BL	BL	BL	BL	BL	PASS
5	Black plastic cushion	BL	BL	BL	BL	BL	PASS
6	Black soft plastic part (Rearview mirror)	BL	BL	BL	BL	BL	PASS
7	Transparent plastic part (Lights)	BL	BL	BL	BL	BL	PASS
8	Transparent red plastic part (Lights)	BL	BL	BL	BL	BL	PASS
9	Black soft plastic (Wheel)	BL	BL	BL	BL	BL	PASS
10	Grey plastic part	BL	BL	BL	BL	BL	PASS
11	Green plastic sheet (Battery)	BL	BL	BL	BL	BL	PASS
12	Silvery metal electrode plate (Battery)	BL	BL	BL	NA	BL	PASS
13	Silvery metal solder (Battery)	BL	BL	BL	NA	BL	PASS
14	Black foam w/ adhesive glue	BL	BL	BL	BL	BL	PASS
15	Transparent adhesive glue	BL	BL	BL	BL	BL	PASS
16	Translucent cream dry glue	BL	BL	BL	BL	BL	PASS
17	White plastic part	BL	BL	BL	BL	BL	PASS
18	Cream plastic part	BL	BL	BL	BL	BL	PASS
19	Silvery metal shaft	BL	BL	BL	NA	BL	PASS
20	Silvery metal rivet shaft	BL	BL	BL	NA	BL	PASS
21	Silvery blue metal spring	BL	BL	BL	NA	X	Refer to chemical method
22	Silvery metal tension spring	BL	BL	BL	NA	BL	PASS
23	Black plastic (Plug, socket)	BL	BL	BL	BL	BL	PASS
24	White plastic (Plug)	BL	BL	BL	BL	BL	PASS
25	Cream plastic (Socket)	BL	BL	BL	X	BL	Refer to chemical method
26	Silvery metal pin (Plug)	BL	BL	BL	NA	BL	PASS
27	Silvery metal pin (Socket)	BL	BL	BL	NA	BL	PASS
28	Green plastic sheet w/ white printing (Electrolytic capacitor)	BL	BL	BL	BL	BL	PASS
29	Silvery metal shell (Electrolytic capacitor)	BL	BL	BL	NA	BL	PASS
30	Black rubber stopper (Electrolytic capacitor)	BL	BL	BL	BL	BL	PASS


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No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
31	Silvery metal pin (Electrolytic capacitor)	BL	BL	BL	NA	BL	PASS
32	Translucent LED body	BL	BL	BL	X	BL	Refer to chemical method
33	Silvery metal pin (Translucent LED)	BL	BL	BL	NA	BL	PASS
34	Silvery metal solder (Translucent LED)	BL	BL	BL	NA	BL	PASS
35	Translucent red LED body	BL	BL	BL	X	BL	Refer to chemical method
36	Silvery metal pin (Transparent LED) (Submitted on Apr 12, 2019)	BL	BL	BL	NA	BL	PASS
37	Silvery metal solder (Red LED) (Submitted on Apr 12, 2019)	BL	BL	BL	NA	BL	PASS
38	Green inductor body w/ multi-color printing	BL	BL	BL	BL	BL	PASS
39	Silvery metal pin (Green inductor)	BL	BL	BL	NA	BL	PASS
40	Brown capacitor body w/ black printing (Submitted on Apr 12, 2019)	BL	BL	BL	BL	BL	PASS
41	Silvery metal pin (Capacitor) (Submitted on Apr 12, 2019)	BL	BL	BL	NA	BL	PASS
42	Silvery crystal oscillator body	BL	BL	BL	BL	BL	PASS
43	Black plastic fittings (Connector)	BL	BL	BL	BL	BL	PASS
44	Silvery metal pin (Connector)	BL	BL	BL	NA	BL	PASS
45	Silvery metal solder (Connector)	BL	BL	BL	NA	BL	PASS
46	Black plastic terminal (Switch)	BL	BL	BL	BL	BL	PASS
47	Silvery metal shell (Switch)	BL	BL	BL	NA	BL	PASS
48	Dull silvery metal spring (Switch)	BL	BL	BL	NA	BL	PASS
49	Silvery-white "U" shaped metal part (Switch)	BL	BL	BL	NA	BL	PASS
50	Brown hard board (Switch)	BL	BL	BL	BL	BL	PASS
51	Silvery metal pin (Switch)	BL	BL	BL	NA	BL	PASS
52	Silvery metal solder (Switch) (Submitted on Apr 12, 2019)	BL	BL	BL	NA	BL	PASS
53	Cream plastic frame (Speaker)	BL	BL	BL	BL	BL	PASS
54	Transparent plastic slice (Speaker)	BL	BL	BL	BL	BL	PASS
55	Coppery metal coil (Speaker)	BL	BL	BL	NA	BL	PASS
56	Iridescent "T" shaped metal part (Speaker)	BL	BL	BL	NA	X	Refer to chemical method
57	Iridescent metal washer (Speaker)	BL	BL	BL	NA	BL	PASS
58	Black magnet (Speaker)	BL	BL	BL	BL	BL	PASS
59	Cream hardboard (Speaker)	BL	BL	BL	X	BL	Refer to chemical method
60	Silvery metal solder (Speaker)	BL	BL	BL	NA	BL	PASS
61	Cream plastic cover (Motor)	BL	BL	BL	BL	BL	PASS



No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
62	Translucent cream plastic cover (Motor)	BL	BL	BL	BL	BL	PASS
63	Silvery metal shell (Motor)	BL	BL	BL	NA	BL	PASS
64	Cream plastic piece (Motor)	BL	BL	BL	BL	BL	PASS
65	Coppery metal brush (Motor)	BL	BL	BL	NA	BL	PASS
66	Translucent cream plastic bushing (Motor)	BL	BL	BL	BL	BL	PASS
67	Coppery metal tube plate (Motor)	BL	BL	BL	NA	BL	PASS
68	Black washer w/ silvery layer backing (Motor)	BL	BL	BL	BL	BL	PASS
69	Silvery metal solder (Washer) (Motor)	BL	BL	BL	NA	BL	PASS
70	Dull coppery metal washer (Motor)	BL	BL	BL	NA	BL	PASS
71	Golden metal washer (Small) (Motor)	BL	BL	BL	NA	BL	PASS
72	Silvery metal shaft (Motor)	BL	BL	BL	NA	X	Refer to chemical method
73	Dull silvery "U" shaped metal part (Motor)	BL	BL	BL	NA	BL	PASS
74	Silvery metal rotor (Motor)	BL	BL	BL	NA	X	Refer to chemical method
75	White plastic rotor (Motor)	BL	BL	BL	BL	BL	PASS
76	Coppery metal coil (Motor)	BL	BL	BL	NA	BL	PASS
77	Black magnet (Motor)	BL	BL	BL	BL	BL	PASS
78	Cream PCB w/ green & white printing (Motor)	BL	BL	BL	X	BL	Refer to chemical method
79	Silvery metal solder (Motor)	BL	BL	BL	NA	BL	PASS
80	Silvery metal electrode plate (Battery compartment)	BL	BL	BL	NA	BL	PASS
81	Silvery metal solder (Battery compartment) (Submitted on Apr 12, 2019)	BL	BL	BL	NA	BL	PASS
82	Silvery blue metal spring clip	BL	BL	BL	NA	BL	PASS
83	Silvery metal spring plate	BL	BL	BL	NA	BL	PASS
84	Silvery metal connector	BL	BL	BL	NA	BL	PASS
85	Black plastic terminal (Push switch)	BL	BL	BL	BL	BL	PASS
86	Silvery metal quadrate plate (Push switch)	BL	BL	BL	NA	BL	PASS
87	Black plastic frame (Push switch)	BL	BL	BL	X	BL	Refer to chemical method
88	Silvery metal pin (Push switch)	BL	BL	BL	NA	BL	PASS
89	Silvery plastic label (USB)	BL	BL	BL	BL	BL	PASS
90	Translucent black plastic shell (USB)	BL	BL	BL	BL	BL	PASS
91	Silvery metal shell (USB)	BL	BL	BL	NA	BL	PASS



No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
92	Black soft plastic (USB)	BL	BL	BL	BL	BL	PASS
93	Yellow hard board (USB)	BL	BL	BL	X	BL	Refer to chemical method
94	Silvery metal solder (USB)	BL	BL	BL	NA	BL	PASS
95	Matt-black magnet core (Inductance)	BL	BL	BL	BL	BL	PASS
96	Copper metal coil (Inductance)	BL	BL	BL	NA	BL	PASS
97	Black chip IC (16 pins)	BL	BL	BL	BL	BL	PASS
98	Black chip IC (8 pins)	BL	BL	BL	BL	BL	PASS
99	Black chip IC (3+1 pins)	BL	BL	BL	BL	BL	PASS
100	Black chip diode	BL	BL	BL	X	BL	Refer to chemical method
101	Brown PCB w/ green & white printing (Big) (Car)	BL	BL	BL	BL	BL	PASS
102	Silvery metal solder (Big PCB of car)	BL	BL	BL	NA	BL	PASS
103	Brown PCB w/ green & white printing (Small) (Car)	BL	BL	BL	BL	BL	PASS
104	Silvery metal solder (Small PCB of car)	BL	BL	BL	NA	BL	PASS
105	Brown PCB w/ green & white printing (Remote control)	BL	BL	BL	BL	BL	PASS
106	Silvery metal solder (Brown PCB)	BL	BL	BL	NA	BL	PASS
107	Cream PCB w/ green & white printing (Remote control)	BL	BL	BL	X	BL	Refer to chemical method
108	Cream PCB w/ red & white printing (USB)	BL	BL	BL	BL	BL	PASS
109	Silvery metal solder (Cream PCB)	BL	BL	BL	NA	BL	PASS
110	Black plastic (Wire jacket) (Outside)	BL	BL	BL	BL	BL	PASS
111	Red plastic (Wire jacket) (Inside)	BL	BL	BL	BL	BL	PASS
112	Black plastic (Wire jacket) (Inside)	BL	BL	BL	BL	BL	PASS
113	Black plastic (Flat cable) (Thick)	BL	BL	BL	BL	BL	PASS
114	Black plastic (Flat cable) (Middle)	BL	BL	BL	BL	BL	PASS
115	Black plastic (Flat cable) (Thin)	BL	BL	BL	BL	BL	PASS
116	White plastic (Flat cable) (Thick)	BL	BL	BL	BL	BL	PASS
117	White plastic (Flat cable) (Thin)	BL	BL	BL	BL	BL	PASS
118	Green plastic (Flat cable) (Thick)	BL	BL	BL	BL	BL	PASS
119	Green plastic (Flat cable) (Thin)	BL	BL	BL	BL	BL	PASS
120	Blue plastic (Flat cable) (Thick)	BL	BL	BL	BL	BL	PASS
121	Blue plastic (Flat cable) (Thin)	BL	BL	BL	BL	BL	PASS
122	Red plastic (Flat cable)	BL	BL	BL	BL	BL	PASS
123	Red plastic (Wire jacket) (Thick)	BL	BL	BL	BL	BL	PASS
124	Red plastic (Wire jacket) (Middle)	BL	BL	BL	BL	BL	PASS
125	Black plastic (Wire jacket) (Thick)	BL	BL	BL	BL	BL	PASS
126	Black plastic (Wire jacket) (Middle)	BL	BL	BL	BL	BL	PASS
127	Black plastic (Wire jacket) (Thin)	BL	BL	BL	BL	BL	PASS



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No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
128	Green plastic (Wire jacket)	BL	BL	BL	BL	BL	PASS
129	Silvery metal core wire	BL	BL	BL	NA	BL	PASS
130	Coppery metal core wire	BL	BL	BL	NA	BL	PASS
131	Silvery metal screw	BL	BL	BL	NA	BL	PASS
132	Silvery metal cap screw	BL	BL	BL	NA	BL	PASS
133	Black soft plastic (Track)	BL	BL	BL	BL	BL	PASS
134	Grey plastic part (Cylinder)	BL	BL	BL	BL	BL	PASS
135	Black heat shrinkable tube	BL	BL	BL	BL	BL	PASS
136	Cream PCB w/ green& white printing (USB)	BL	BL	BL	BL	BL	PASS
137	Silvery metal solder (Green PCB of USB) (Submitted on Apr 12, 2019)	BL	BL	BL	NA	BL	PASS
138	Red plastic cover (Motor)	BL	BL	BL	BL	BL	PASS
139	Silvery metal electro-plated layer (Cylinder)	BL	BL	BL	NA	BL	PASS
140	Black plastic (Bucket)	BL	BL	BL	BL	BL	PASS
141	Yellow plastic (Wire jacket)	BL	BL	BL	BL	BL	PASS
142	Dull red plastic (Wire jacket)	BL	BL	BL	BL	BL	PASS
143	White rubber w/ black layer backing (Button)	BL	BL	BL	BL	BL	PASS
144	Silvery-grey coating	BL	BL	BL	BL	BL	PASS
145	Cream plastic (Cab)	BL	BL	BL	BL	BL	PASS
146	Cream label paper	BL	BL	BL	BL	BL	PASS
147	Dull silvery metal spring (Cylinder)	BL	BL	BL	NA	X	Refer to chemical method
148	Black metal shell (Switch)	BL	BL	BL	NA	BL	PASS
149	Silvery metal pin (Motor)	BL	BL	BL	NA	BL	PASS
150	Coppery grain part (Motor)	BL	BL	BL	BL	BL	PASS
151	White plastic (Crane)	BL	BL	BL	BL	BL	PASS
152	Brown plastic (Crane)	BL	BL	BL	BL	BL	PASS
153	Grey braided rope (Crane)	BL	BL	BL	BL	BL	PASS
154	Black braided rope (Crane)	BL	BL	BL	BL	BL	PASS
155	Transparent plastic wire (Crane)	BL	BL	BL	BL	BL	PASS
156	Silvery blue metal nut (Crane)	BL	BL	BL	NA	BL	PASS
157	Orange plastic cover (Motor)	BL	BL	BL	BL	BL	PASS
158	Black audion body	BL	BL	BL	X	BL	Refer to chemical method
159	Silvery metal pin (Audion)	BL	BL	BL	NA	BL	PASS
160	Dull yellow plastic (Wire jacket)	BL	BL	BL	BL	BL	PASS
161	Blue metal bare wire	BL	BL	BL	NA	BL	PASS
162	Green metal bare wire	BL	BL	BL	NA	BL	PASS
163	Red metal bare wire	BL	BL	BL	NA	BL	PASS



No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
164	Lt. Brown inductor body w/ multi-color printing	BL	BL	BL	BL	BL	PASS
165	Transparent orange plastic part	BL	BL	BL	BL	BL	PASS
166	Black plastic sheet w/ white printing (Electrolytic capacitor)	BL	BL	BL	BL	BL	PASS
167	White plastic frame (Speaker) (Submitted on Apr 12, 2019)	BL	BL	BL	BL	BL	PASS
168	Yellow plastic (Wire jacket) (Thin) (Submitted on Apr 12, 2019)	BL	BL	BL	BL	BL	PASS
169	Red plastic (Wire jacket) (Submitted on Apr 12, 2019)	BL	BL	BL	BL	BL	PASS
170	Green plastic (Wire jacket) (Submitted on Apr 12, 2019)	BL	BL	BL	BL	BL	PASS
171	Blue plastic (Wire jacket) (Submitted on Apr 12, 2019)	BL	BL	BL	BL	BL	PASS
172	Blue plastic shell	BL	BL	BL	BL	BL	PASS
173	Yellow plastic (Flat cable)	BL	BL	BL	BL	BL	PASS
174	Orange plastic shell (Garbage truck)	BL	BL	BL	BL	BL	PASS
175	Lt. Grey plastic shell (Garbage truck)	BL	BL	BL	BL	BL	PASS
176	Red plastic (Garbage truck)	BL	BL	BL	BL	BL	PASS
177	Green plastic (Garbage truck)	BL	BL	BL	BL	BL	PASS
178	White plastic shell (Fire fighting truck)	BL	BL	BL	BL	BL	PASS
179	Cream rubber tube (Fire fighting truck)	BL	BL	BL	BL	BL	PASS
180	Transparent plastic fixed part (Red LED)	BL	BL	BL	BL	BL	PASS
181	Transparent plastic (Bucket)	BL	BL	BL	BL	BL	PASS
182	Dk. Grey plastic (Scaling ladder)	BL	BL	BL	BL	BL	PASS
183	Black soft plastic tube	BL	BL	BL	BL	BL	PASS
184	Transparent blue plastic part	BL	BL	BL	BL	BL	PASS
185	Transparent LED body	BL	BL	BL	X	BL	Refer to chemical method
186	Silvery metal pin (Transparent LED)	BL	BL	BL	NA	BL	PASS
187	Red plastic (Wheel)	BL	BL	BL	BL	BL	PASS
188	Orange red plastic (Car hopper)	BL	BL	BL	BL	BL	PASS
189	Black plastic (Hook)	BL	BL	BL	BL	BL	PASS
190	Black soft plastic (Plug)	BL	BL	BL	BL	BL	PASS
191	Silvery metal tube (Plug)	BL	BL	BL	NA	BL	PASS
192	Black plastic tube inside (Plug)	BL	BL	BL	X	BL	Refer to chemical method
193	Silvery metal tube inside (Plug)	BL	BL	BL	NA	BL	PASS
194	Silvery metal solder (Plug)	BL	BL	BL	NA	BL	PASS
195	White plastic (Wire jacket) (Inside)	BL	BL	BL	BL	BL	PASS
196	Multi-color coating	BL	BL	BL	BL	BL	PASS
197	Yellow plastic (Cross country vehicle)	BL	BL	BL	BL	BL	PASS





No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
198	Black plastic (Bumper)	BL	BL	BL	BL	BL	PASS
199	Black plastic (Cab)	BL	BL	BL	X	BL	Refer to chemical method
200	Golden metal gear (Submitted on Apr 12, 2019)	BL	OL	BL	NA	BL	Refer to chemical method
201	Black IC body (16 pins)	BL	BL	BL	X	BL	Refer to chemical method
202	Silvery metal pin (IC) (Submitted on Apr 12, 2019)	BL	BL	BL	NA	BL	PASS
203	Coppery metal brush	BL	BL	BL	NA	BL	PASS
204	Blue plastic (Wire jacket ) (Inside)	BL	BL	BL	BL	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





# Test Report

No. T51910221077TC

Date: APR 19, 2019

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## 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)
	21	25	32		
Lead (Pb)	--	--	--	10	1000
Hexavalent Chromium (CrVI) by boiling water extraction	Negative	--	--	See Note	#
Sum of PBBs	--	ND	ND	--	1000
Monobromobiphenyl	--	ND	ND	100	--
Dibromobiphenyl	--	ND	ND	100	--
Tribromobiphenyl	--	ND	ND	100	--
Tetrabromobiphenyl	--	ND	ND	100	--
Pentabromobiphenyl	--	ND	ND	100	--
Hexabromobiphenyl	--	ND	ND	100	--
Heptabromobiphenyl	--	ND	ND	100	--
Octabromobiphenyl	--	ND	ND	100	--
Nonabromobiphenyl	--	ND	ND	100	--
Decabromobiphenyl	--	ND	ND	100	--
Sum of PBDEs	--	ND	ND	--	1000
Monobromodiphenyl ether	--	ND	ND	100	--
Dibromodiphenyl ether	--	ND	ND	100	--
Tribromodiphenyl ether	--	ND	ND	100	--
Tetrabromodiphenyl ether	--	ND	ND	100	--
Pentabromodiphenyl ether	--	ND	ND	100	--
Hexabromodiphenyl ether	--	ND	ND	100	--
Heptabromodiphenyl ether	--	ND	ND	100	--
Octabromodiphenyl ether	--	ND	ND	100	--
Nonabromodiphenyl ether	--	ND	ND	100	--
Decabromodiphenyl ether	--	ND	ND	100	--
<b>Comment</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	35	56	59		
Lead (Pb)	--	--	--	10	1000
Hexavalent Chromium (CrVI) by boiling water extraction	--	Negative	--	See Note	#
Sum of PBBs	ND	--	ND	--	1000
Monobromobiphenyl	ND	--	ND	100	--
Dibromobiphenyl	ND	--	ND	100	--
Tribromobiphenyl	ND	--	ND	100	--
Tetrabromobiphenyl	ND	--	ND	100	--
Pentabromobiphenyl	ND	--	ND	100	--
Hexabromobiphenyl	ND	--	ND	100	--
Heptabromobiphenyl	ND	--	ND	100	--
Octabromobiphenyl	ND	--	ND	100	--
Nonabromobiphenyl	ND	--	ND	100	--
Decabromobiphenyl	ND	--	ND	100	--
Sum of PBDEs	ND	--	ND	--	1000
Monobromodiphenyl ether	ND	--	ND	100	--
Dibromodiphenyl ether	ND	--	ND	100	--
Tribromodiphenyl ether	ND	--	ND	100	--
Tetrabromodiphenyl ether	ND	--	ND	100	--
Pentabromodiphenyl ether	ND	--	ND	100	--
Hexabromodiphenyl ether	ND	--	ND	100	--
Heptabromodiphenyl ether	ND	--	ND	100	--
Octabromodiphenyl ether	ND	--	ND	100	--
Nonabromodiphenyl ether	ND	--	ND	100	--
Decabromodiphenyl ether	ND	--	ND	100	--
<b>Comment</b>	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	72	74	78		
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	--
<b>Comment</b>	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	87	93	100		
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	--
<b>Comment</b>	PASS	PASS	PASS	--	--



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	107	147	158		
Lead (Pb)	--	--	--	10	1000
Hexavalent Chromium (CrVI) by boiling water extraction	--	Negative	--	See Note	#
Sum of PBBs	ND	--	ND	--	1000
Monobromobiphenyl	ND	--	ND	100	--
Dibromobiphenyl	ND	--	ND	100	--
Tribromobiphenyl	ND	--	ND	100	--
Tetrabromobiphenyl	ND	--	ND	100	--
Pentabromobiphenyl	ND	--	ND	100	--
Hexabromobiphenyl	ND	--	ND	100	--
Heptabromobiphenyl	ND	--	ND	100	--
Octabromobiphenyl	ND	--	ND	100	--
Nonabromobiphenyl	ND	--	ND	100	--
Decabromobiphenyl	ND	--	ND	100	--
Sum of PBDEs	ND	--	ND	--	1000
Monobromodiphenyl ether	ND	--	ND	100	--
Dibromodiphenyl ether	ND	--	ND	100	--
Tribromodiphenyl ether	ND	--	ND	100	--
Tetrabromodiphenyl ether	ND	--	ND	100	--
Pentabromodiphenyl ether	ND	--	ND	100	--
Hexabromodiphenyl ether	ND	--	ND	100	--
Heptabromodiphenyl ether	ND	--	ND	100	--
Octabromodiphenyl ether	ND	--	ND	100	--
Nonabromodiphenyl ether	ND	--	ND	100	--
Decabromodiphenyl ether	ND	--	ND	100	--
<b>Comment</b>	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	185	192	199		
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	701	--	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	52	100	--
Decabromodiphenyl ether	ND	ND	649	100	--
<b>Comment</b>	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
	200	201		
Lead (Pb)	25042###	--	10	1000
Hexavalent Chromium (CrVI) by boiling water extraction	--	--	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	--
<b>Comment</b>	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/cm<sup>2</sup>. The coating is considered a non- Cr(VI) based coating.
  - Positive = The Cr(VI) concentration is above 0.13ug/cm<sup>2</sup> 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/cm<sup>2</sup> to 0.13ug/cm<sup>2</sup>. 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
  - ### According to the product specification provided from client, specimen No.200 of the submitted sample is copper alloy containing up to 40000 mg/kg Lead by weight which is exempted by RoHS regulatory (Directive 2015/863/EU amending Annex II to Directive 2011/65/EU of The European Parliament and of The Council of 31 March 2015).



**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	3	4		
Specimen No.	--	1	2	3	4	600	1000
Alias No.	--	2	2	2	2		
Tracing No.	--	1	2	3	4		
Dibutyl Phthalate (DBP)	84-74-2	BL	BL	BL	BL	600	1000
Benzylbutyl Phthalate (BBP)	85-68-7	BL	BL	BL	BL	600	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	BL	BL	BL	BL	600	1000
Diisobutyl phthalate (DIBP)	84-69-5	BL	BL	BL	BL	600	1000

Test Item(s)	CAS No.	Result(s) (mg/kg)				MDL (mg/kg)	Permissible Limit (mg/kg)
		5	6	7	8		
Specimen No.	--	5	6	7	8	600	1000
Alias No.	--	2	2	2	2		
Tracing No.	--	5	6	7	8		
Dibutyl Phthalate (DBP)	84-74-2	BL	BL	BL	BL	600	1000
Benzylbutyl Phthalate (BBP)	85-68-7	BL	BL	BL	BL	600	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	BL	BL	BL	BL	600	1000
Diisobutyl phthalate (DIBP)	84-69-5	BL	BL	BL	BL	600	1000


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Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
		9	10	11		
Specimen No.	--	9	10	11	100	1000
Alias No.	--	2	2	2		
Tracing No.	--	9	10	11		
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.	--	12	13	14	100	1000
Alias No.	--	2	2	2		
Tracing No.	--	12	13	14		
Dibutyl Phthalate (DBP)	84-74-2	136	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)
		15	16	17		
Specimen No.	--	15	16	17	100	1000
Alias No.	--	2	2	2		
Tracing No.	--	15	16	17		
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)
		18	19	20		
Specimen No.	--	18	19	20	100	1000
Alias No.	--	2	2	2		
Tracing No.	--	18	19	20		
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.	--	21	22	23	100	1000
Alias No.	--	2	2	2		
Tracing No.	--	21	22	23		
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)
		24	25	26		
Specimen No.	--	24	25	26	100	1000
Alias No.	--	2	2	2		
Tracing No.	--	24	25	26		
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.	--	27	28	29	100	1000
Alias No.	--	2	2	2		
Tracing No.	--	27	28	29		
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.	--	30	31	32	100	1000
Alias No.	--	2	2	2		
Tracing No.	--	30	31	32		
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	35		
Specimen No.	--	33	34	35	100	1000
Alias No.	--	2	2	2		
Tracing No.	--	33	34	35		
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)
		36	37	38		
Specimen No.	--	36	37	38	100	1000
Alias No.	--	2	2	2		
Tracing No.	--	36	37	38		
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)
		39	40	41		
Specimen No.	--	39	40	41	100	1000
Alias No.	--	2	2	2		
Tracing No.	--	39	40	41		
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)
		42	43	44		
Specimen No.	--	42	43	44	100	1000
Alias No.	--	2	2	2		
Tracing No.	--	42	43	44		
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)
		45	46	47		
Specimen No.	--	45	46	47	100	1000
Alias No.	--	2	2	2		
Tracing No.	--	45	46	47		
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)
		48	49	50		
Specimen No.	--	48	49	50	100	1000
Alias No.	--	2	2	01T-3		
Tracing No.	--	48	49	1		
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)
		51	52	53		
Specimen No.	--	51	52	53	100	1000
Alias No.	--	01T-3	01T-3	01T-3		
Tracing No.	--	2	3	4		
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)
		54	55	56		
Specimen No.	--	54	55	56	100	1000
Alias No.	--	01T-3	01T-3	2		
Tracing No.	--	5	6	50		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	240	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)
		57	58	59		
Specimen No.	--	57	58	59	100	1000
Alias No.	--	2	2	2		
Tracing No.	--	51	52	53		
Dibutyl Phthalate (DBP)	84-74-2	414	ND	131	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)
		60	61	62	63		
Specimen No.	--	60	61	62	63	100	1000
Alias No.	--	2	2	2	2		
Tracing No.	--	54	55	56	57		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	145	ND	100	1000
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	ND	100	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	ND	ND	ND	100	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	ND	100	1000



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Specimen Description:

1. Yellow plastic shell (Body) + Transparent plastic part (Lights) + Red plastic cover (Motor) + Brown plastic (Crane) + Orange plastic cover (Motor) + Transparent orange plastic part + Blue plastic shell + Orange plastic shell (Garbage truck) + Red plastic (Garbage truck) + Green plastic (Garbage truck) + Transparent blue plastic part + Red plastic (Wheel) + Orange red plastic (Car hopper) + Yellow plastic (Cross country vehicle)
2. Black plastic shell (Pedestal) + Black plastic cushion + Grey plastic part + Black plastic (Plug, socket) + Translucent black plastic shell (USB) + Grey plastic part (Cylinder) + Black plastic (Bucket) + Dk. Grey plastic (Scaling ladder) + Dk. Grey plastic (Scaling ladder) + Black plastic (Hook) + Black plastic (Bumper) + Black plastic (Cab)
3. Transparent plastic part (Lights) + White plastic part + Cream plastic part + White plastic (Plug) + Cream plastic (Socket) + Cream plastic frame (Speaker) + Cream plastic cover (Motor) + Translucent cream plastic cover (Motor) + Cream plastic (Cab) + White plastic (Crane) + Lt. Grey plastic shell (Garbage truck) + White plastic shell (Fire fighting truck) + Transparent plastic (Bucket)
4. Green plastic sheet (Battery) + Translucent red LED body + Cream PCB w/ green & white printing (Motor) + Black chip IC (16 pins) + Brown PCB w/ green & white printing (Big) (Car) + Brown PCB w/ green & white printing (Small) (Car) + Brown PCB w/ green & white printing (Remote control) + Cream PCB w/ green & white printing (Remote control) + Cream PCB w/ red & white printing (USB) + Cream PCB w/ green & white printing (USB) + Grey braided rope (Crane) + Black braided rope (Crane) + Transparent LED body + Black IC body (16 pins)
5. Black soft plastic part (Rearview mirror) + Black soft plastic (Wheel) + Black soft plastic (USB) + Black soft plastic (Track) + Black soft plastic (Plug)
6. Black foam w/ adhesive glue + Translucent cream dry glue + Black plastic (Flat cable) (Thick) + Cream rubber tube (Fire fighting truck) + Black soft plastic tube
7. Black plastic (Wire jacket) (Outside) + Black plastic (Flat cable) (Middle) + Black plastic (Flat cable) (Thin) + Black plastic (Wire jacket) (Thick) + Black plastic (Wire jacket) (Middle)
8. White plastic (Flat cable) (Thick) + White plastic (Flat cable) (Thin) + White rubber w/ black layer backing (Button) + White plastic (Wire jacket) (Inside)
9. Blue plastic (Flat cable) (Thick)
10. Green plastic (Flat cable) (Thick)
11. Red plastic (Flat cable)
12. Yellow plastic (Wire jacket)
13. White laminated label paper w/ multi-color printing
14. Black coating
15. Transparent adhesive glue
16. Black rubber stopper (Electrolytic capacitor)
17. Translucent LED body



### Specimen Description:

18. Green inductor body w/ multi-color printing
19. Brown capacitor body w/ black printing
20. Silvery crystal oscillator body
21. Black plastic fittings (Connector)
22. Black plastic terminal (Switch)
23. Brown hard board (Switch)
24. Transparent plastic slice (Speaker)
25. Cream hardboard (Speaker)
26. Cream plastic piece (Motor)
27. Translucent cream plastic bushing (Motor)
28. White plastic rotor (Motor)
29. Black plastic terminal (Push switch)
30. Black plastic frame (Push switch)
31. Silvery plastic label (USB)
32. Yellow hard board (USB)
33. Black chip IC (8 pins)
34. Black chip IC (3+1 pins)
35. Black chip diode
36. Red plastic (Wire jacket ) (Inside)
37. Black plastic (Wire jacket ) (Inside)
38. Red plastic (Wire jacket) (Middle)
39. Black plastic (Wire jacket) (Thin)
40. Black heat shrinkable tube
41. Silvery-grey coating
42. Cream label paper
43. Transparent plastic wire (Crane)
44. Black audion body
45. Lt. Brown inductor body w/ multi-color printing
46. Black plastic sheet w/ white printing (Electrolytic capacitor)
47. Transparent plastic fixed part (Red LED)



Specimen Description:


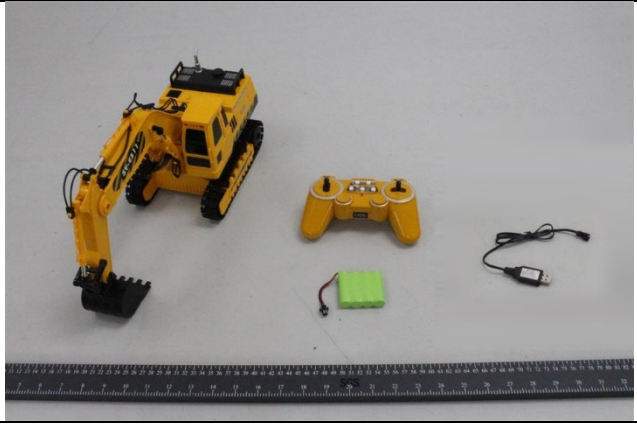




- 48. Black plastic tube inside (Plug)
- 49. Multi-color coating
- 50. White plastic frame (Speaker) (Submitted on Apr 12, 2019)
- 51. Yellow plastic (Wire jacket) (Thin) (Submitted on Apr 12, 2019)
- 52. Red plastic (Wire jacket) (Thin) (Submitted on Apr 12, 2019)
- 53. Green plastic (Wire jacket) (Thin) (Submitted on Apr 12, 2019)
- 54. Blue plastic (Wire jacket) (Submitted on Apr 12, 2019)
- 55. Green plastic sheet w/ white printing (Electrolytic capacitor)
- 56. Blue plastic (Flat cable) (Thin)
- 57. Blue plastic (Wire jacket ) (Inside)
- 58. Green plastic (Flat cable) (Thin)
- 59. Green plastic (Wire jacket)
- 60. Red plastic (Wire jacket) (Thick)
- 61. Dull red plastic (Wire jacket)
- 62. Dull yellow plastic (Wire jacket)
- 63. Yellow plastic (Flat cable)

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
	
Pic.5	Pic.6
	



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Sample Picture (As received)

Pic.7



Pic.8



Pic.9



Pic.10



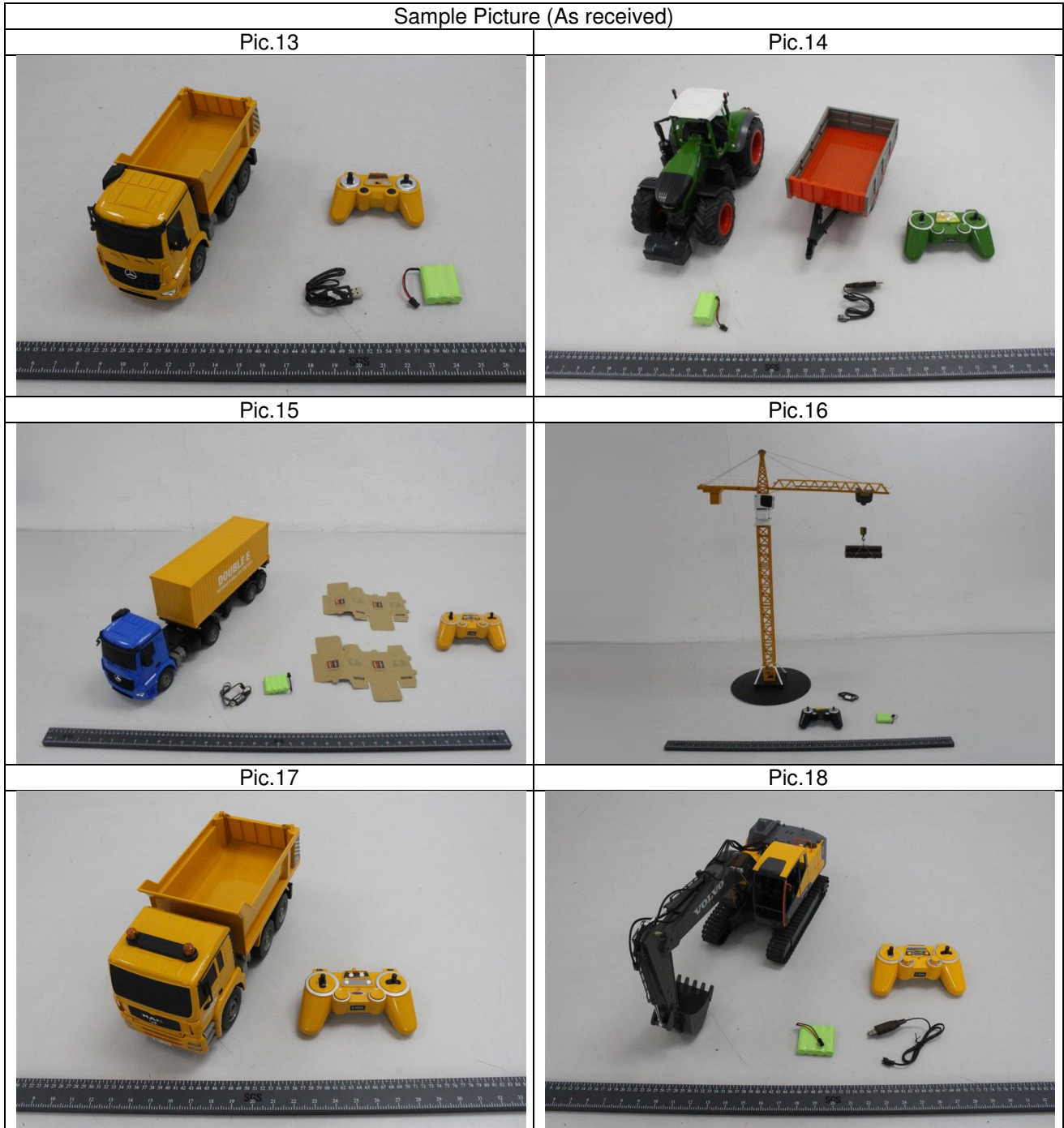
Pic.11



Pic.12



Sample Picture (As received)



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\*\*\* End of Report \*\*\*



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