



Test Report

No.T52010210355TC

Date: MAR 10, 2020

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GUANGDONG XINYU TECHNOLOGY INDUSTRIAL CO.,LTD
LAIMEI INDUSTRIAL ZONE,CHENGHAI DISTRICT,
SHANTOU, GUANGDONG

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

1:14 BIG FOOT RACER

Style No. : XQ-3930
Item No. : XQ-3930
Requested Age Grading : 8+
Sample Receiving Date : JAN 06, 2020
Last Submission Sample Date : MAR 04, 2020
Testing Period : JAN 06, 2020 TO MAR 10, 2020

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



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	Black plastic frame	BL	BL	BL	BL	BL	PASS
2	Silvery metal spring	BL	BL	BL	NA	BL	PASS
3	Silvery metal electrode plate	BL	BL	BL	NA	X	Refer to chemical method
4	Silvery metal solder (Battery compartment)	BL	BL	BL	NA	BL	PASS
5	White & black label paper	BL	BL	BL	BL	BL	PASS
6	Silvery crystal oscillator	BL	BL	BL	BL	BL	PASS
7	Green color-ring resistor	BL	BL	BL	BL	BL	PASS
8	Silvery metal part	BL	BL	BL	NA	BL	PASS
9	Silvery metal pin	BL	BL	BL	NA	BL	PASS
10	Black plastic terminal	BL	BL	BL	BL	BL	PASS
11	Red "LED" body	BL	BL	BL	X	BL	Refer to chemical method
12	Black plastic terminal (Push switch)	BL	BL	BL	X	BL	Refer to chemical method
13	Silvery metal quadrate plate (Push switch)	BL	BL	BL	NA	BL	PASS
14	Silvery metal round plate (Push switch)	BL	BL	BL	NA	BL	PASS
15	Black plastic frame (Push switch)	BL	BL	BL	BL	BL	PASS
16	Silvery metal pin (Push switch)	BL	BL	BL	NA	BL	PASS
17	Black plastic terminal (Switch)	BL	BL	BL	BL	BL	PASS
18	Black metal shell (Switch)	BL	BL	BL	NA	BL	PASS
19	Silvery "U" shaped metal part (Switch)	BL	BL	BL	NA	BL	PASS
20	Silvery metal spring (Switch)	BL	BL	BL	NA	BL	PASS
21	Brown hard board w/ red printing (Switch)	BL	BL	BL	BL	BL	PASS
22	Silvery metal pin (Switch)	BL	BL	BL	NA	BL	PASS
23	Red plastic (Wire jacket)	BL	BL	BL	BL	BL	PASS
24	Black plastic (Wire jacket)	BL	BL	BL	BL	BL	PASS
25	Silvery metal core wire	BL	BL	BL	NA	BL	PASS
26	Black "IC" body (14 pins)	BL	BL	BL	X	BL	Refer to chemical method
27	Silvery metal solder ("PCB")	BL	BL	BL	NA	BL	PASS
28	Dk. Brown "PCB" w/ green printing	BL	BL	BL	BL	BL	PASS



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No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
29	Transparent plastic washer (Battery compartment) (Submitted on Mar 04, 2020)	BL	BL	BL	BL	BL	PASS
30	Silvery blue metal bolt (Battery compartment)	BL	BL	BL	NA	BL	PASS
31	Silvery metal spring (Battery compartment)	BL	BL	BL	NA	BL	PASS
32	Silvery metal electrode plate (Battery compartment)	BL	BL	BL	NA	BL	PASS
33	White & green label paper (Submitted on Mar 04, 2020)	BL	BL	BL	BL	BL	PASS
34	White label paper w/ black printing (Submitted on Mar 04, 2020)	BL	BL	BL	BL	BL	PASS
35	Silvery metal shaft	BL	BL	BL	NA	BL	PASS
36	Transparent plastic gear	BL	BL	BL	BL	BL	PASS
37	Silvery metal spring (Gear)	BL	BL	BL	NA	BL	PASS
38	Silvery metal shaft (Thin)	BL	BL	BL	NA	BL	PASS
39	Black plastic part	BL	BL	BL	BL	BL	PASS
40	Black plastic heat shrinkable tube	BL	BL	BL	BL	BL	PASS
41	Silvery metal pin (Wire jacket)	BL	BL	BL	NA	BL	PASS
42	Black "IC"body (16 pins)	BL	BL	BL	BL	BL	PASS
43	Yellow capacitor body	BL	BL	BL	BL	BL	PASS
44	Cream color-ring resistor	BL	BL	BL	BL	BL	PASS
45	Transparent color-ring resistor	BL	BL	BL	BL	BL	PASS
46	Black "IC"body (Submitted on Mar 04, 2020)	BL	BL	BL	BL	BL	PASS
47	Green capacitor body	BL	BL	BL	BL	X	Refer to chemical method
48	Green plastic sheet w/ white printing (Electrolytic capacitor)	BL	BL	BL	BL	BL	PASS
49	Silvery metal shell (Electrolytic capacitor)	BL	BL	BL	NA	BL	PASS
50	Black rubber stopper (Electrolytic capacitor)	BL	BL	BL	BL	BL	PASS
51	Silvery foilpaper (Electrolytic capacitor)	BL	BL	BL	NA	BL	PASS
52	Brown wet paper (Electrolytic capacitor)	BL	BL	BL	BL	BL	PASS
53	Silvery metal pin (Electrolytic capacitor)	BL	BL	BL	NA	BL	PASS
54	Cream plastic shell	BL	BL	BL	BL	BL	PASS
55	Black magnet core	BL	BL	BL	BL	BL	PASS
56	Red enamelled wire (Submitted on Mar 04, 2020)	BL	BL	BL	BL	BL	PASS
57	Silvery metal solder (Brown "PCB")	BL	BL	BL	NA	BL	PASS
58	Brown "PCB" w/ green printing	BL	BL	BL	BL	BL	PASS
59	Brown capacitor body	BL	BL	BL	BL	BL	PASS
60	Silvery metal shell (Motor)	BL	BL	BL	NA	BL	PASS



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No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
61	Cream plastic cover (Motor)	BL	BL	BL	BL	BL	PASS
62	Copper metal brush (Motor)	BL	BL	BL	NA	BL	PASS
63	Cream plastic piece (Motor)	BL	BL	BL	BL	BL	PASS
64	Silvery metal tube plate (Motor)	BL	BL	BL	NA	BL	PASS
65	Red plastic washer (Motor) (Submitted on Mar 04, 2020)	BL	BL	BL	BL	BL	PASS
66	Cream plastic bushing (Motor)	BL	BL	BL	BL	BL	PASS
67	Golden metal washer (Small) (Motor)	BL	BL	BL	NA	BL	PASS
68	White plastic gear	BL	BL	BL	BL	BL	PASS
69	Dull silvery "V" shaped metal part (Motor)	BL	BL	BL	NA	X	Refer to chemical method
70	Copper enameled wire (Motor)	BL	BL	BL	BL	BL	PASS
71	White plastic rotor plate (Motor)	BL	BL	BL	BL	BL	PASS
72	Silvery metal rotor plate (Motor)	BL	BL	BL	NA	X	Refer to chemical method
73	Silvery metal shaft (Motor)	BL	BL	BL	NA	X	Refer to chemical method
74	Black magnet (Motor)	BL	BL	BL	BL	BL	PASS
75	Silvery metal solder (Motor)	BL	BL	BL	NA	BL	PASS
76	Matt-black magnet core (Inductance)	BL	BL	BL	BL	BL	PASS
77	Red enameled wire (Inductance)	BL	BL	BL	BL	BL	PASS
78	Silvery metal solder cream "PCB"	BL	BL	BL	NA	BL	PASS
79	Cream "PCB" w/ green printing	BL	BL	BL	X	BL	Refer to chemical method
80	Dull silvery metal spring (Switch)	BL	BL	BL	NA	X	Refer to chemical method
81	Silvery metal nut	BL	BL	BL	NA	BL	PASS
82	Silvery metal shell (Round motor)	BL	BL	BL	NA	BL	PASS
83	Cream plastic cover (Round motor)	BL	BL	BL	BL	BL	PASS
84	Copper metal brush (Round motor)	BL	BL	BL	NA	BL	PASS
85	Golden metal electrode plate (Round motor)	BL	BL	BL	NA	BL	PASS
86	Dull gray convex piece (Round motor)	BL	BL	BL	BL	BL	PASS
87	Golden metal washer (Big) (Round motor)	BL	BL	BL	NA	BL	PASS
88	Dull silvery metal washer (Round motor)	BL	BL	BL	NA	BL	PASS
89	Copper metal tube plate (Round motor)	BL	BL	BL	NA	BL	PASS
90	Black magnet core (Round motor)	BL	BL	BL	BL	BL	PASS

No.	Specimen Description	Result(s)					Comment
		Cd	Pb	Hg	Br	Cr	
91	Red plastic washer (Round motor) (Submitted on Mar 04, 2020)	BL	BL	BL	BL	BL	PASS
92	Cream plastic bushing (Round motor)	BL	BL	BL	BL	BL	PASS
93	Golden metal gear (Round motor)	BL	OL	BL	NA	BL	Refer to chemical method
94	Dull silvery metal "V" shaped part (Round motor)	BL	BL	BL	NA	BL	PASS
95	Coppery enamelled wire (Round motor)	BL	BL	BL	BL	BL	PASS
96	Golden metal washer (Small) (Round motor)	BL	BL	BL	NA	BL	PASS
97	White plastic rotor plate (Round motor)	BL	BL	BL	BL	BL	PASS
98	Silvery metal rotor plate (Round motor)	BL	BL	BL	NA	X	Refer to chemical method
99	Silvery metal shaft (Round motor)	BL	BL	BL	NA	BL	PASS
100	Silvery metal solder (Round motor)	BL	BL	BL	NA	BL	PASS
101	Black magnet (Round motor)	BL	BL	BL	BL	BL	PASS
102	White dry glue	BL	BL	BL	BL	BL	PASS
103	Silvery metal solder foil	BL	BL	BL	NA	BL	PASS
104	Coppery metal foil w/ adhesive glue	BL	BL	BL	NA	BL	PASS
105	Transparent red plastic part (Car lights)	BL	BL	BL	BL	BL	PASS
106	Transparent plastic part (Car lights)	BL	BL	BL	BL	BL	PASS
107	Silvery plastic sheet (Submitted on Mar 04, 2020)	BL	BL	BL	BL	BL	PASS
108	Black plastic part (Car lights)	BL	BL	BL	BL	BL	PASS
109	White & gray label paper	BL	BL	BL	BL	BL	PASS
110	Silvery metal shaft (Short)	BL	BL	BL	NA	BL	PASS
111	Silvery metal screw (Long)	BL	BL	BL	NA	BL	PASS
112	Silvery metal screw (Thick)	BL	BL	BL	NA	BL	PASS
113	Black rubber ring (Wheel)	BL	BL	BL	BL	BL	PASS
114	Silvery metal cap screw	BL	BL	BL	NA	BL	PASS
115	Silvery metal screw	BL	BL	BL	NA	BL	PASS
116	Silvery metal screw w/ black surface	BL	BL	BL	NA	X	Refer to chemical method
117	Silvery metal screw (Thin)	BL	BL	BL	NA	BL	PASS

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



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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, IEC 62321-7-2:2017, IEC62321-7-1:2015, EC62321-6:2015
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)
	3	11	12		
Lead (Pb)	--	--	--	10	1000
Hexavalent Chromium (CrVI) by alkaline extraction	--	--	--	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	--
Comment	PASS	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	26	47	69		
Lead (Pb)	--	--	--	10	1000
Hexavalent Chromium (CrVI) by alkaline extraction	--	ND	--	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	--	--



Test Report

No. T52010210355TC

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Test Item(s)	Result (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
	72	73	79		
Lead (Pb)	--	--	--	10	1000
Hexavalent Chromium (CrVI) by alkaline extraction	--	--	--	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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Test Report

No. T52010210355TC

Date: MAR 10, 2020

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Test Item(s)	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
	80	93		
Lead (Pb)	--	34035###	10	1000
Hexavalent Chromium (CrVI) by alkaline extraction	--	--	10	1000
Hexavalent Chromium (CrVI) by boiling water extraction	Negative	--	See Note	#
Sum of PBBs	--	--	--	1000
Monobromobiphenyl	--	--	100	--
Dibromobiphenyl	--	--	100	--
Tribromobiphenyl	--	--	100	--
Tetrabromobiphenyl	--	--	100	--
Pentabromobiphenyl	--	--	100	--
Hexabromobiphenyl	--	--	100	--
Heptabromobiphenyl	--	--	100	--
Octabromobiphenyl	--	--	100	--
Nonabromobiphenyl	--	--	100	--
Decabromobiphenyl	--	--	100	--
Sum of PBDEs	--	--	--	1000
Monobromodiphenyl ether	--	--	100	--
Dibromodiphenyl ether	--	--	100	--
Tribromodiphenyl ether	--	--	100	--
Tetrabromodiphenyl ether	--	--	100	--
Pentabromodiphenyl ether	--	--	100	--
Hexabromodiphenyl ether	--	--	100	--
Heptabromodiphenyl ether	--	--	100	--
Octabromodiphenyl ether	--	--	100	--
Nonabromodiphenyl ether	--	--	100	--
Decabromodiphenyl ether	--	--	100	--
Comment	PASS	PASS	--	--



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Test Item(s)	Result (mg/kg)		MDL (mg/kg)	Permissible Limit (mg/kg)
	98	116		
Lead (Pb)	--	--	10	1000
Hexavalent Chromium (CrVI) by alkaline extraction	--	--	10	1000
Hexavalent Chromium (CrVI) by boiling water extraction	Negative	Negative	See Note	#
Sum of PBBs	--	--	--	1000
Monobromobiphenyl	--	--	100	--
Dibromobiphenyl	--	--	100	--
Tribromobiphenyl	--	--	100	--
Tetrabromobiphenyl	--	--	100	--
Pentabromobiphenyl	--	--	100	--
Hexabromobiphenyl	--	--	100	--
Heptabromobiphenyl	--	--	100	--
Octabromobiphenyl	--	--	100	--
Nonabromobiphenyl	--	--	100	--
Decabromobiphenyl	--	--	100	--
Sum of PBDEs	--	--	--	1000
Monobromodiphenyl ether	--	--	100	--
Dibromodiphenyl ether	--	--	100	--
Tribromodiphenyl ether	--	--	100	--
Tetrabromodiphenyl ether	--	--	100	--
Pentabromodiphenyl ether	--	--	100	--
Hexabromodiphenyl ether	--	--	100	--
Heptabromodiphenyl ether	--	--	100	--
Octabromodiphenyl ether	--	--	100	--
Nonabromodiphenyl ether	--	--	100	--
Decabromodiphenyl ether	--	--	100	--
Comment	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 result of Hexavalent chromium (Cr(VI)) is deemed to be "ND" since the result of total chromium content is "ND", so the testing of Hexavalent chromium (Cr(VI)) is not requirement.
 - If the Chromium (Cr) content is greater than the MDL, And confirmation test of Hexavalent Chromium (Cr(VI)) is required.
 - 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.93 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).



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**1.2 EU Directive 2015/863/EU amending Annex II to Directive 2011/65/EU (RoHS, Previously 2002/95/EC)
- 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)
Specimen No.	--	1	2		
Alias No.	--	5	5		
Tracing No.	--	1	2		
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)
Specimen No.	--	3	4		
Alias No.	--	5	5		
Tracing No.	--	3	4		
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

Test Item(s)	CAS No.	Result(s) (mg/kg)			MDL (mg/kg)	Permissible Limit (mg/kg)
Specimen No.	--	5	6	7		
Alias No.	--	5	5	5		
Tracing No.	--	5	6	7		
Dibutyl Phthalate (DBP)	84-74-2	BL	BL	BL	600	1000
Benzylbutyl Phthalate (BBP)	85-68-7	BL	BL	BL	600	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	BL	BL	BL	600	1000
Diisobutyl phthalate (DIBP)	84-69-5	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)
Specimen No.	--	8	9	10		
Alias No.	--	01T-2	01T-2	01T-2		
Tracing No.	--	1	2	3		
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)
Specimen No.	--	11	12	13		
Alias No.	--	01T-2	01T-2	01T-2		
Tracing No.	--	5	6	7		
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)
Specimen No.	--	14	15		
Alias No.	--	01T-2	01T-2		
Tracing No.	--	8	4		
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. White & black label paper
2. White & gray label paper
3. Black plastic frame+Silvery crystal oscillator+Green color-ring resistor +Black plastic terminal+Black plastic terminal (Push switch)+Black plastic frame (Push switch)+Black plastic terminal (Switch)+Brown hard board w/ red printing (Switch) +Black "IC"body (14 pins)+Dk. Brown "PCB" w/ green printing+Transparent plastic gear+Black plastic part+Black "IC"body (16 pins)+Yellow capacitor body
4. Cream plastic shell+Brown "PCB" w/ green printing+Cream plastic cover (Motor)+Cream plastic piece (Motor)+White plastic gear+Coppery enamelled wire (Motor)+Red enamelled wire (Inductance)+Cream "PCB" w/ green printing+Cream plastic cover (Round motor)+Black magnet core (Round motor)+Coppery enamelled wire (Round motor)+Transparent red plastic part (Car lights)+Transparent plastic part (Car lights)+Black plastic part (Car lights)
5. Red plastic (Wire jacket)+Black plastic (Wire jacket)+Black plastic heat shrinkable tube
6. Black rubber stopper (Electrolytic capacitor) +White dry glue+Black rubber ring wheel
7. Red "LED"body+Cream color-ring resistor +Transparent color-ring resistor +Green capacitor body+Green plastic sheet w/ white printing (Electrolytic capacitor)+Brown wet paper (Electrolytic capacitor)+Brown capacitor body+Cream plastic bushing (Motor)+White plastic rotor plate (Motor)+Cream plastic bushing (Round motor)+White plastic rotor plate (Round motor)
8. Transparent plastic washer (Battery compartment) (Submitted on Mar 04, 2020)
9. White & green label paper (Submitted on Mar 04, 2020)
10. White label paper w/ black printing (Submitted on Mar 04, 2020)
11. Red enamelled wire (Submitted on Mar 04, 2020)
12. Red plastic washer (Motor) (Submitted on Mar 04, 2020)
13. Red plastic washer (Round motor) (Submitted on Mar 04, 2020)
14. Silvery plastic sheet (Submitted on Mar 04, 2020)
15. Black "IC"body (Submitted on Mar 04, 2020)



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 minimum specimen weight for composite test.

Sample Photo:



SGS authenticate the photo on original report only

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