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Test Report

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Date: Aug.27, 2018

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Applicant: Address:

Report on the submitted sample(s) said to be:

Sample Name:	Logo Light Up Bottle
Sample Model:	62134
Sample Received Date:	Aug.21, 2018
Testing Period:	Aug.21, 2018 to Aug.27, 20

Test Requested:Please refer to following page(s).Test Method:Please refer to following page(s).Test Result:Please refer to following page(s).





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Conclusion

Test Requested:

As specified by client, to determine the Pb, Cd, Hg, Cr^{6+} , PBBs, PBDEs content in the submitted sample in accordance with EU RoHS Directive 2011/65/EU(RoHS) and its amendment directives on XRF and Chemical Method.

Pass

Test Methods:

A: <u>Screening by X-ray Fluorescence Spectrometry (XRF)</u>: With reference to IEC 62321-3-1:2013 Ed 1.0 Screening - Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry
B: <u>Chemical test:</u>

Test Item	Test Method	Measuring Instrument	MDL
Cadmium (Cd)	IEC 62321-5:2013 Ed 1.0	ICP-OES	2 mg/kg
Lead (Pb)	IEC 62321-5:2013 Ed 1.0	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4:2017 Ed 1.1	ICP-OES	2 mg/kg
Non-metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-2:2017 Ed 1.0	UV-Vis	1 mg/kg
Metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2015 Ed 1.0	UV-Vis	
PBBs/PBDEs	IEC 62321-6:2015 Ed 1.0	GC-MS	5 mg/kg

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Test Results:

A、EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Seq.	Tested Part(s)		Results(mg/kg)			
No.		Cd	Pb	Hg	Cr	Br
1	Black coating(Cup shell)	BL	BL	BL	BL	BL
2	White plastic cup(Cup shell)	BL	BL	BL	BL	BL
3	Black plastic hand cover(Cup shell)	BL	BL	BL	BL	BL
4	White rubber ring(Cup shell)	BL	BL	BL	BL	BL
5	White seal ring(Metal Cup)	BL	BL	BL	BL	BL
6	Metal Cup(Metal Cup)	BL	BL	BL	X*	- nopus
7	Transparent tape(Light board)	BL	BL	BL	BL	BL
8	Chip LED(Light board)	BL	BL	BL	BL	BL
9	Tin solder(Light board)	BL	BL	BL	BL	Frank Part
10	Chip resistor(Light board)	BL	BL	BL	BL	BL
11	Light board(Light board)	BL	BL	BL	BL	BL
12	White wire jacket(Light board)	BL	BL	BL	BL	BL
13	Black wire jacket(Light board)	BL	BL	BL	X*	BL
14	Wire core(Light board)	BL	BL	BL	BL	-
15	Black plastic bottom cover(Base)	BL	BL	BL	BL	BL
16	White rubber ring(Base)	BL	BL	BL	BL	BL
17	Black rubber button(Base)	BL	BL	BL	BL	BL
18	Silver screw(Base)	BL	BL	BL	BL	-
19	Thumb screw(Base)	BL	BL	BL	BL	G-
20	Silver metal clip(Base)	OL*	BL	BL	BL	-
21	Button battery(Base)	BL	BL	BL	X*	BL
22	White plastic button(Switch)	BL	BL	BL	BL	BL
23	Grey plastic shell(Switch)	BL	BL	BL	BL	BL
24	Black plastic base seat(Switch)	BL	BL	BL	BL	BL

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Seq.		Results(mg/kg)				
No.	Tested Part(s)	Cd	Pb	Hg	Cr	Br
25	Pin(Sensor)	BL	BL	BL	BL	-
26	Sensor body(Sensor)	BL	BL	BL	BL	BL
27	Black wire jacket(Circuit board)	BL	BL	BL	BL	BL
28	Wire core(Circuit board)	BL	BL	BL	BL	0
29	Tin solder(Circuit board)	BL	BL	BL	BL	<u> </u>
30	Bare chip IC(Circuit board)	BL	BL	BL	BL	BL
31	Chip resistor(Circuit board)	BL	BL	BL	BL	BL
32	White wire jacket(Circuit board)	BL	BL	BL	BL	BL

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤50-3σ <x <150+3σ≤OL</x
Pb	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x
Hg	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x
Cr	mg/kg	BL≤700-3σ <x< td=""><td>BL≤700-3σ<x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<></td></x<>	BL≤700-3σ <x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<>	BL≤500-3σ <x< td=""></x<>
Br	mg/kg	BL≤300-3σ <x< td=""><td>The state of the s</td><td>BL≤250-3σ<x< td=""></x<></td></x<>	The state of the s	BL≤250-3σ <x< td=""></x<>

- Note: BL= Below Limit
 - OL= Over limited
 - X= Inconclusive
 - "-"= Not regulated
 - *= Scanning by XRF and detected by chemical method. The test results of chemical method please refer to next pages.

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Remark:

- Results were obtained by XRF for primary scanning, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the above warning value according to IEC 62321-3-1:2013 Ed 1.0.
- ii The XRF scanning test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- iii The maximum permissible limit is quoted from RoHS directive 2011/65/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000

Disclaimers:

This XRF Scanning 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 report is sufficient for its/his/her purposes.

The result shown in this XRF scanning 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 are required to obtain quantitative data.

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B、 The Test Results of Chemical Method:

1) The Test Results of Cd

T. (1)	Unit	Result(s)		
Test Item(s)	Unit	20		V
Cadmium(Cd)	mg/kg	N.D.	The Handwood	0 G

Note: N.D. = Not Detected or less than MDL MDL = Method Detection Limit

2) The Test Results of non-metal Cr⁶

	T T •/	Res	ult(s)		
Test Item(s)	Unit	13	21	Limit	
Hexavalent Chromium(Cr ⁶⁺)	mg/kg	N.D.	N.D.	1000	

Note:

N.D. = Not Detected or less than MDL MDL = Method Detection Limit

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3)The Test Results of metal Cr⁶⁺

Test Item(s) MDL		Result(s)	T ::4
Test Item(s)	MDL	6	Limit
Hexavalent Chromium (Cr ⁶⁺)	See note	Negative	#

Note:

- Negative = Absence of Cr(VI) on the tested areas
- MDL = Method Detection Limit

Boiling-water-extraction:

Number	Colorimetric result (Cr(VI) concentration)	Qualitative result
	The sample solution is <the 0,10="" <math="">\mug/cm² equivalent comparison standard solution</the>	The sample is negative for $Cr(VI)$ – The $Cr(VI)$ concentration is below the limit of quantification. The coating is considered a non- $Cr(VI)$ based coating.
6C 2	The sample solution is \geq the 0,10 µg/cm ² and \leq the0,13 µg/cm ² equivalent comparison standard solutions	The result is considered to be inconclusive – Unavoidable coating variations may influence the determination.
3 3 6	The sample solution is > the 0,13 μ g/cm ² equivalent comparison standard solution	The sample is positive for $Cr(VI)$ – The $Cr(VI)$ concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain $Cr(VI)$.

=Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.

Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination.

Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

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DATA ICP-OES Filtration 2.For non-metal Cr(VI) Weigh Sample Sample pretreatment pH adjustment to 7.5±0.5

DATA UV-Vis Adding 1,5-diphenylcarbazide for color development

3.For metal Cr(VI)

Sample(s) Preparation Boiling water extraction Adding 1,5- diphenylcarbazide for color development

DATA Compare with 0.1µg/cm² and 0.13µg/cm² standard UV-Vis

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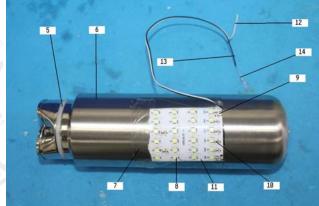
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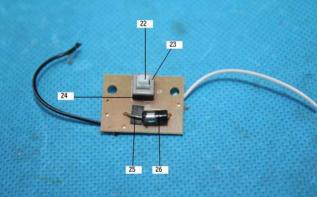
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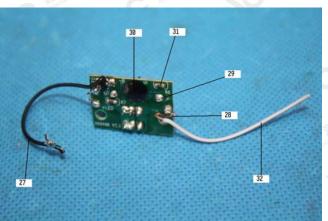
The photo of the sample













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