

# Test Report

Report No.: A001R20150119017

Date: Jan.30, 2015

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Applicant: [REDACTED]

Address: [REDACTED]

Testing Company: Attestation of Global Compliance (shenzhen)Co.,Ltd.

Testing Address: Unit 2, Meihua Road 171, Shangmeilin Street, Futian District, Shenzhen City, China

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

Sample Name: Flashlight w.waste bags DOGS HELPER

Sample Model: LY9104

Supplier: [REDACTED]

Buyer: Inspirion GmbH

Manufacturer: [REDACTED]

Address: [REDACTED]

Sample Received Date: Jan.19, 2015

Testing Period: Jan.19, 2015 to Jan.26, 2015

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

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

## Test Requested:

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

## Conclusion

Pass

Checked by

*Free*  
Free Wang

Signed for and on behalf of AGC



*David Wang*  
David Wang

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**Test Results:**
**A、EU RoHS Directive 2011/65/EU and its amendment directives on XRF**
**Test method:** With reference to IEC 62321 Ed 1.0, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
1	White plastic shell	BL	BL	BL	BL	BL
2	Green plastic shell	BL	BL	BL	BL	BL
3	Transparent plastic sheet	BL	BL	BL	BL	BL
4	Transparent sticker (Label)	BL	BL	BL	BL	BL
5	Silvery metal screw	BL	BL	BL	BL	-
6	White paper label	BL	BL	BL	BL	BL
7	Transparent plastic (LED)	BL	BL	BL	BL	X(2606)*
8	Silvery metal pin (LED)	BL	BL	BL	BL	-
9	Black plastic film	BL	BL	BL	BL	BL
10	PCB board	BL	BL	BL	BL	X(18390)*
11	Solder	BL	OL(588928)*	BL	BL	-
12	White plastic button	BL	BL	BL	BL	BL
13	Yellow metal	BL	BL	BL	BL	-
14	Button battery	BL	OL(1465)*	BL	BL	BL
15	Blue plastic shell	BL	BL	BL	BL	BL
16	Red plastic shell	BL	BL	BL	BL	BL
17	Black plastic shell	BL	BL	BL	BL	BL
18	Silvery coating	OL(2132)*	BL	BL	BL	BL
19	Black plastic	BL	BL	BL	BL	BL

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Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq 70-3\sigma < X$ $< 130+3\sigma \leq OL$	$BL \leq 70-3\sigma < X$ $< 130+3\sigma \leq OL$	$BL \leq 50-3\sigma < X$ $< 150+3\sigma \leq OL$
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	$BL \leq 700-3\sigma < X$ $< 1300+3\sigma \leq OL$	$BL \leq 700-3\sigma < X$ $< 1300+3\sigma \leq OL$	$BL \leq 500-3\sigma < X$ $< 1500+3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700-3\sigma < X$	$BL \leq 700-3\sigma < X$	$BL \leq 500-3\sigma < X$
Br	mg/kg	$BL \leq 300-3\sigma < X$	-	$BL \leq 250-3\sigma < X$

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:

- i 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 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 the document 2005/618/EC amending 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:**Test method:

Pb &amp; Cd Content:

With reference to IEC 62321 Ed 1.0, by acid digestion and analysis was performed by ICP-AES or AAS.

PBBs &amp; PBDEs Content:

With reference to IEC 62321 Ed 1.0 Annex A, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

## 1) The Test Results of Pb &amp; Cd

Test Item(s)	Unit	MDL	Result(s)	
			11	14
Lead(Pb)	mg/kg	2	534921*	842

Test Item(s)	Unit	MDL	Result(s)	
			18	
Cadmium(Cd)	mg/kg	2	N.D.	

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

mg/kg = ppm

MDL = Method Detection Limit

\*=As claimed by the material declaration submitted by the client, the materials of the sample

No.11 is solder, according to the ROHS 2011/65 / EU, Lead in soldering is exempted.

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## 2) The Test Results of PBBs & PBDEs

Unit:mg/kg

Item	MDL	Results		Limit
		7	10	
Polybrominated Biphenyls (PBBs)				
Monobromobiphenyl	5	N.D.	N.D.	Total PBBs Content <1000 mg/kg
Dibromobiphenyl	5	N.D.	N.D.	
Tribromobiphenyl	5	N.D.	N.D.	
Tetrabromobiphenyl	5	N.D.	N.D.	
Pentabromobiphenyl	5	N.D.	N.D.	
Hexabromobiphenyl	5	N.D.	N.D.	
Heptabromobiphenyl	5	N.D.	N.D.	
Octabromobiphenyl	5	N.D.	N.D.	
Nonabromodiphenyl	5	N.D.	N.D.	
Decabromodiphenyl	5	N.D.	N.D.	
Total content	/	N.D.	N.D.	
Polybrominated Diphenylethers (PBDEs)				
Monobromodiphenyl ether	5	N.D.	N.D.	Total PBDEs Content <1000 mg/kg
Dibromodiphenyl ether	5	N.D.	N.D.	
Tribromodiphenyl ether	5	N.D.	N.D.	
Tetrabromodiphenyl ether	5	N.D.	N.D.	
Pentabromodiphenyl ether	5	N.D.	N.D.	
Hexabromodiphenyl ether	5	N.D.	N.D.	
Heptabromodiphenyl ether	5	N.D.	N.D.	
Octabromodiphenyl ether	5	N.D.	N.D.	
Nonabromodiphenyl ether	5	N.D.	N.D.	
Decabromodiphenyl ether	5	N.D.	N.D.	
Total content	/	N.D.	N.D.	
Conclusion	/	Pass	Pass	/

Note: N.D. = Not Detected or less than MDL  
 mg/kg = ppm  
 MDL = Method Detection Limit

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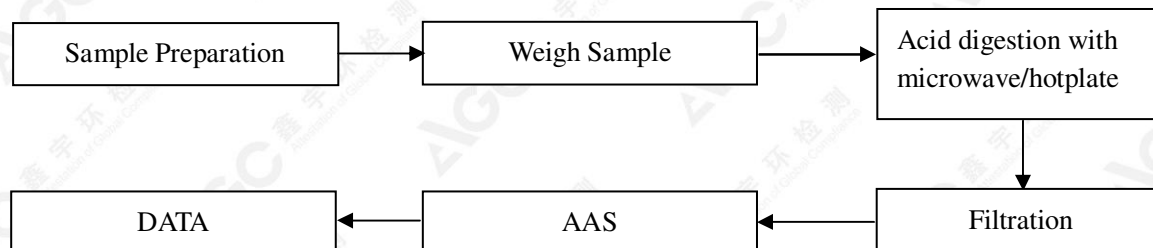
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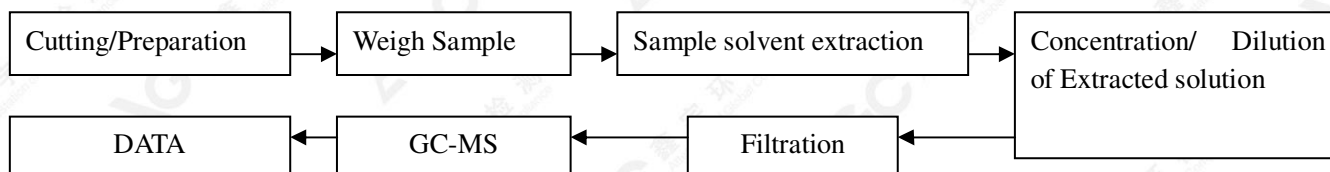
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## Test Flow Chart

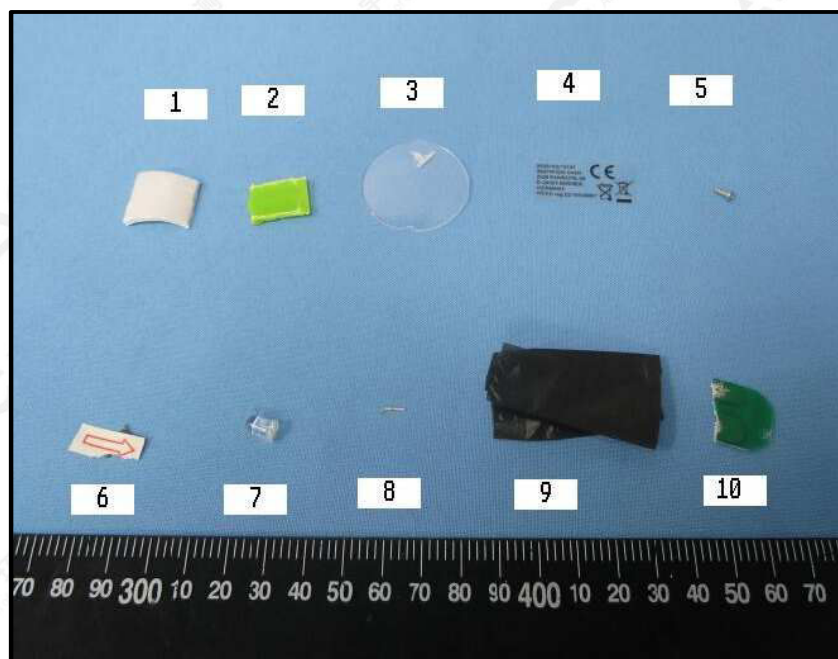
### 1. For Pb & Cd



### 2.For PBBs & PBDEs



## The photo of the sample



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AGC authenticate the photo only on original report  
\*\*\* End of Report \*\*\*

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