

**RoHS Test Report**

No. 201308750R

Date: Aug. 16, 2013

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APPLICANT : Smart Team Holdings Limited

FLAT A01, 5F., Great Wall Fty Bldg., 11 Cheung Shun Street, Lai  
Chi Kwok, Kowloon, HK

## REPORT ON THE SUBMITTED SAMPLE SAID TO BE

SAMPLE NAME : ULTRA THIN SOLAR FLASHLIGHT

TYPE /MODEL : ST-TSF2013

MANUFACTURER : Shenzhen Smart Team Technology Ltd.

TEST REPORT NUMBER : 201308750R

SAMPLE RECEIVED DATE : Aug. 10, 2013

TESTING PERIOD : Aug. 10, 2013 to Aug. 16, 2013

\*\*\*\*\*  
TEST REQUESTED: TO COMBINE THE TEST RESULT FOR THE SUBMITTED SAMPLE  
\*\*\*\*\*

## CONCLUSION:

<u>TESTED SAMPES</u>	<u>STANDARD</u>	<u>RESULT</u>
SUBMITTED SAMPLE	EUROPEAN DIRECTIVE 2011/65/EU ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES (RoHS Directive)	PASS

\*\*\*\*\*FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)\*\*\*\*\*

Signed for and on behalf of ANBOTEK COMPLIANCE LABORATORY LIMITED

Written by

Adeline Fan

Inspected by

Terry Ziam

Approved

Jeff Zhu

Jeff Zhu / Manager



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**Shenzhen Anbotek Compliance Laboratory Limited**

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**Testing method:**

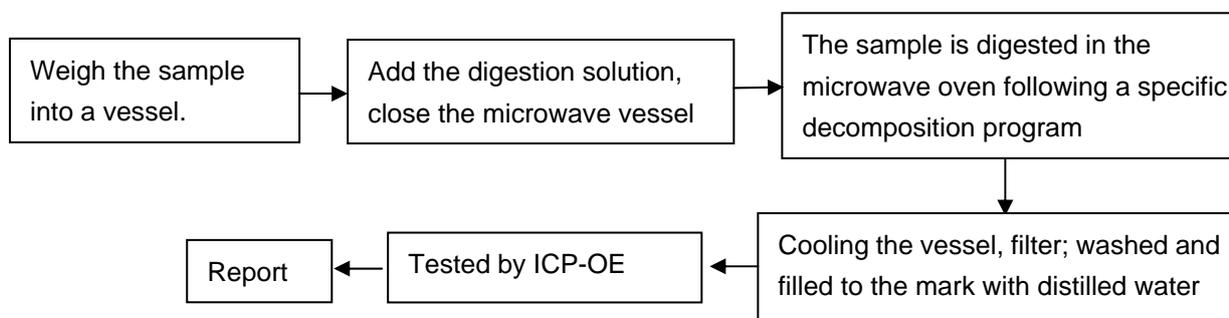
Testing Item	Measuring method	Instrument	Report Limit
Cadmium (Cd)	EN 1122B	ICP-AES	2 mg/kg
Lead (Pb)	EPA 3050B	ICP-AES	2 mg/kg
Mercury (Hg)	EPA 3052	ICP-AES	2 mg/kg
Chromium(VI) [Cr(VI)]	EPA 3060A	UV-VIS	2 mg/kg
Polybrominated Biphenyl (PBB)	83/264/EEC	GC/MS	5 mg/kg
Polybrominated Diphenylether (PBDE)	83/264/EEC	GC/MS	5 mg/kg

**Method detection Limits:**

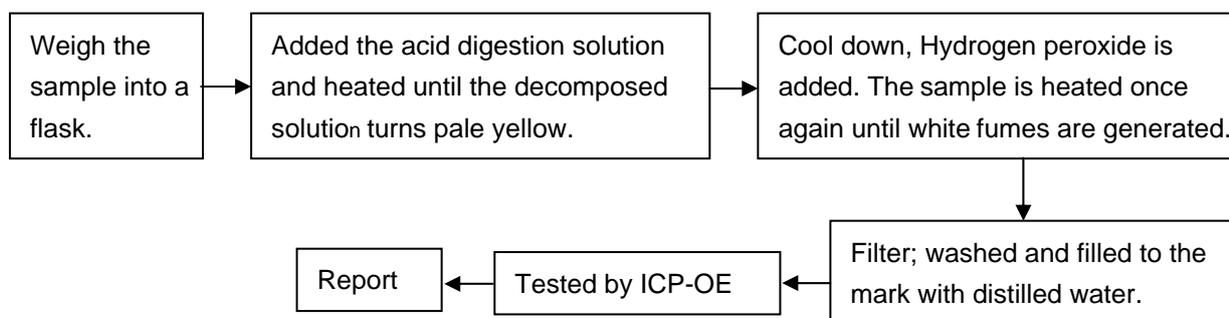
Test Item	Unit	Acceptable Limit
Cadmium (Cd)	ppm	100
Lead (Pb)	ppm	1000
Mercury (Hg)	ppm	1000
Chromium(VI) [Cr(VI)]	ppm	1000
Polybrominated Biphenyl (PBB)	ppm	1000
Polybrominated Diphenylether (PBDE)	ppm	1000

**Test flow:**

1. To Determine lead Content:



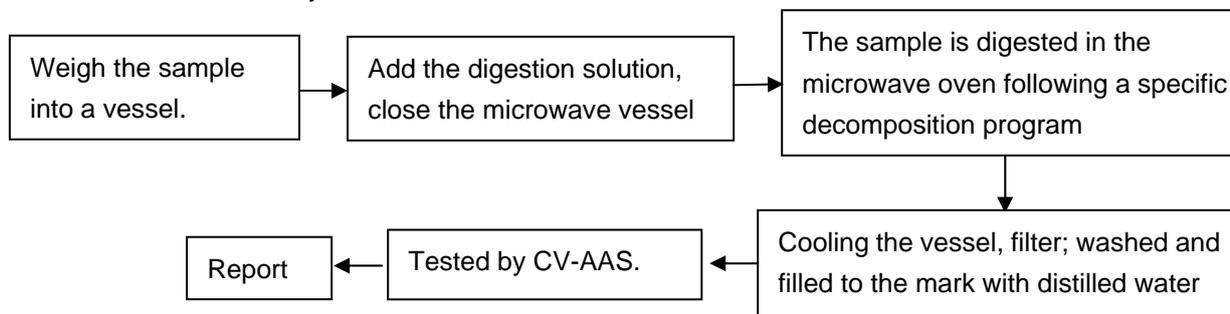
2. To Determine Cadmium Content:



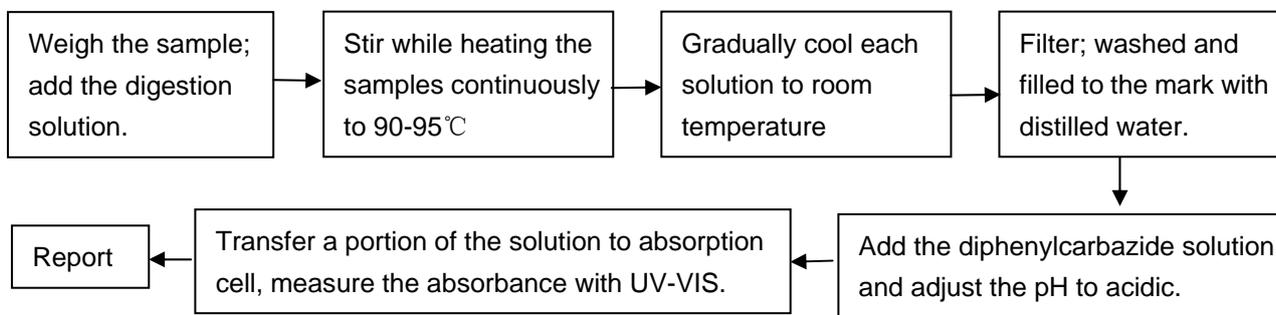
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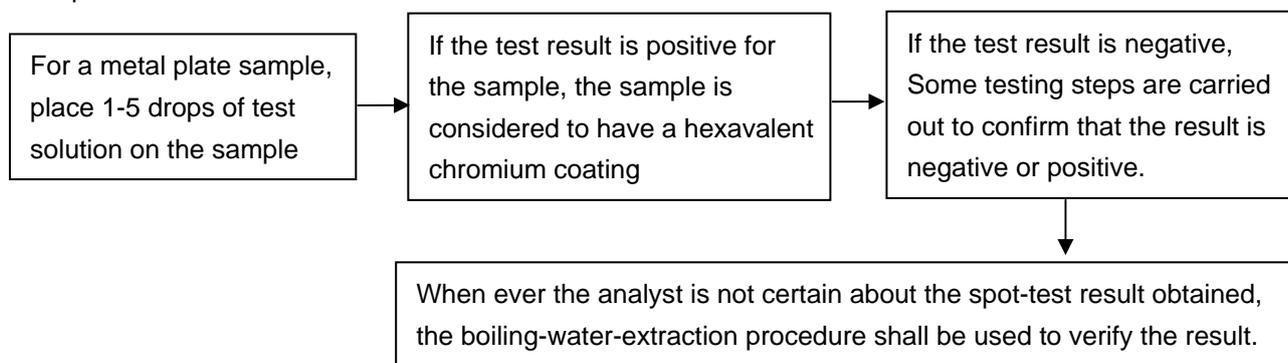
3. To Determine Mercury Content:



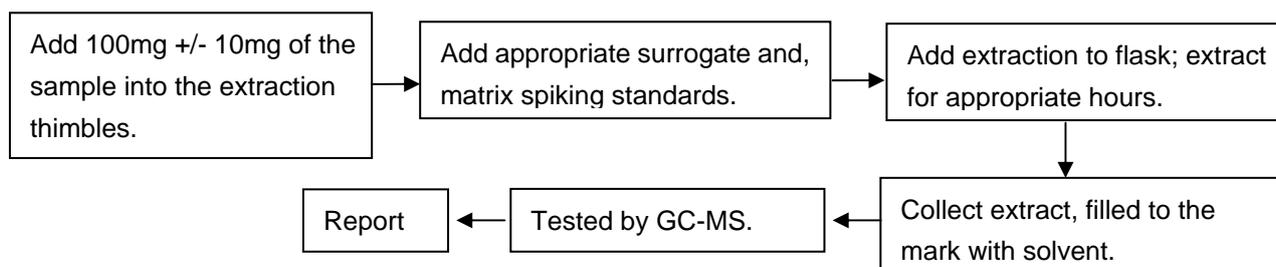
4. To Determine Hexavalent Chromium Content:



5. To Determine Hexavalent Chromium Content in metals:  
spot-test:



6. To Determine PBBs / PBDEs Content:



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## Test Results

Item	Unit	MDL	No. 1-1	No. 1-2	No. 1-3	No. 2	No. 3-1
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.	Negative	Negative	N.D.	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.A.	N.A.	N.D.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.A.	N.A.	N.D.	N.D.

Item	Unit	MDL	No. 3-2	No. 4	No. 5	No. 6-1	No. 6-2
Lead Content (Pb)	ppm	2	N.D.	5	354	N.D.	N.D.
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.	N.D.	N.D.	N.D.	Negative
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.D.	N.D.	N.D.	N.A.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.D.	N.D.	N.D.	N.A.

Item	Unit	MDL	No. 7	No. 8	No. 9	No. 10	No. 11
Lead Content (Pb)	ppm	2	N.D.	27	3537 <sup>&lt;1&gt;</sup>	N.D.	N.D.
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.	Negative	N.D.	N.D.	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.A.	N.D.	N.D.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.A.	N.D.	N.D.	N.D.

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Item	Unit	MDL	No. <u>12</u>	No. <u>13</u>	No. <u>14-1</u>	No. <u>14-2</u>	No. <u>14-3</u>
Lead Content (Pb)	ppm	2	11	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	Negative	N.D.	N.D.	N.D.	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.A.	N.D.	N.D.	N.D.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.A.	N.D.	N.D.	N.D.	N.D.

Item	Unit	MDL	No. <u>14-4</u>	No. <u>14-5</u>	No. <u>14-6</u>	No. <u>14-7</u>	No. <u>14-8</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.D.	N.D.	N.D.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.D.	N.D.	N.D.	N.D.

Item	Unit	MDL	No. <u>14-9</u>	No. <u>14-10</u>	No. <u>14-11</u>	No. <u>14-12</u>	No. <u>14-13</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.D.	N.D.	N.D.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.D.	N.D.	N.D.	N.D.

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Item	Unit	MDL	No. <u>14-14</u>	No. <u>14-15</u>	No. <u>14-16</u>	No. <u>14-17</u>	No. <u>14-18</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	18	17
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.D.	N.D.	N.D.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.D.	N.D.	N.D.	N.D.

Item	Unit	MDL	No. <u>14-19</u>	No. <u>14-20</u>	No. <u>14-21</u>		
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.		
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.		
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.		
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.	N.D.	N.D.		
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.D.	N.D.		
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.D.	N.D.		

- NOTE: (1) ppm=mg/kg.  
 (2) N.D.= NOT DETECTED (<MDL)  
 (3) N.A.= NOT APPLICABLE  
 (4) Negative = Absence of CrVI coating

DISCLAIM: Anbotek take no responsibility for any mistakes caused by inaccurate and /or invalid information submitted by the applicant.

Remark<1>: According to the declaration from the client, Lead (Pb) in specimen 9 is exempted by EU RoHS Directive 2011/65/EU based on: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.

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**SAMPLE APPEARANCE DESCRIPTION**

Item No.	Part Name	Description	Test Report No.
1	USB	---	---
1-1	PBT(WHITE PLASTIC CORE)	Light blue plastic	SGS CANEC1213118512
1-2	SPCC	Silver-grey metal	SGS CANEC1213118509
1-3	FILM	Silvery and silver-grey film	SGS CANEC1213118515
2	IC	Black body w/ silvery metal pin(mixed)	SGS CANEC1209557201
3	KEYPAD LIGHT	---	SGS CE/2012/70633A
3-1	CHIP	Transparent glue and chip	SGS CE/2012/70633A
3-2	BODY	Body(excluding the transparent glue and chip)	SGS CE/2012/70633A
4	CPFCP(SY)	Copper clad brown laminate w/ green printing	SGS CANEC1206972101
5	GENERAL PURPOSE CHIP RESISTORS	General purpose chip resistors(black/white/silver general purpose chip resistors)	SGS KA/2012/C0588
6	SOP28L	---	SGS SHAEC1206020003
6-1	BODY	Black body	SGS SHAEC1206020003
6-2	METAL	Silvery metal	SGS SHAEC1206020003
7	SOT-23	Black body w/ white printing & silvery metal pin	SGS CANEC1306648301
8	SOT-23-5L(12R)	Black solid with silvery pin(mix all)	SGS SHAEC1303258509
9	CHIP RESISTANCE	Chip resistance	SGS CANEC1302632204
10	TAJ SERIES	MIXED ALL PAETS	SGS CE/2011/C5458
11	SMD INDUCTOR	Gray metal particle with silvery metal edge & black printing(mixed)	SGS CANEC1206392002
12	ALUMINUM	Silver-grey metal tube	SGS CANEC1302328104
13	SILICONE RUBBER	White silicone rubber	AOV A001R120920066002-1

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Item No.	Part Name	Description	Test Report No.
14	ACRYLONITRILE/ BUTADIENE/ STYRENE COPOLYMERIZATION RESIN	---	SGS CE/2012/54994A
14-1	BEIGE	Beige PVC compound	SGS CE/2012/54994A
14-2	BEIGE	Beige PVC compound	SGS CE/2012/54994A
14-3	BEIGE	Beige PVC compound	SGS CE/2012/54994A
14-4	BEIGE	Beige PVC compound	SGS CE/2012/54994A
14-5	BEIGE	Beige PVC compound	SGS CE/2012/54994A
14-6	BEIGE	Beige PVC compound	SGS CE/2012/54994A
14-7	BEIGE	Beige PVC compound	SGS CE/2012/54994A
14-8	BLACK	Black PVC compound	SGS CE/2012/54994A
14-9	BEIGE	Beige PVC compound	SGS CE/2012/54994A
14-10	BEIGE	Beige PVC compound	SGS CE/2012/54994A
14-11	BEIGE	Beige PVC compound	SGS CE/2012/54994A
14-12	BLACK	Black PVC compound	SGS CE/2012/54994A
14-13	BLACK	Black PVC compound	SGS CE/2012/54994A
14-14	BEIGE	Beige PVC compound	SGS CE/2012/54994A
14-15	BEIGE	Beige PVC compound	SGS CE/2012/54994A
14-16	BLACK	Black PVC compound	SGS CE/2012/54994A
14-17	WHITE	White PVC compound	SGS CE/2012/54994A
14-18	WHITE	White PVC compound	SGS CE/2012/54994A
14-19	TRANSPARENT	Transparent PVC compound	SGS CE/2012/54994A
14-20	CREAM	Cream PVC compound	SGS CE/2012/54994A
14-21	CREAM	PVC compound	SGS CE/2012/54994A

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

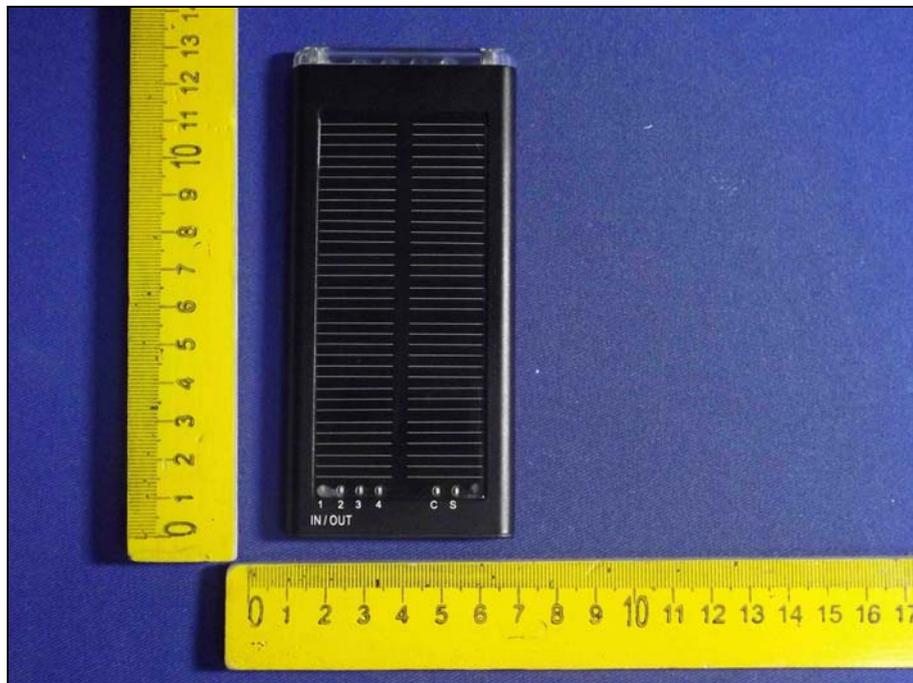
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**APPENDIX A**

**Photograph of Sample**



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