

**XRF Screening and Chemical Confirmation Test Report**

Number: 180300332SHA-001(R1)

Applicant: Ningbo Be-Well Lighting&Energy Technology Co., Ltd.  
No.2 KATO Road, Shangtian Town, Fenghua City,  
Zhejiang, China.

Date: Apr 17, 2018

Sample Description:

One (1) piece of submitted sample said to be  
Item Name : **LED RECHARGEABLE WORK LIGHT**  
Testing Model : RYET-2C3T  
Reference Model : RYET-2C3TE



Tests Conducted:

As Requested By The Applicant, For Details Refer To Attached Page(S)

Remark:

This is to supersede report No.180300332SHA-001 dated in Apr 17, 2018.  
The tested samples were confirmed by client and reference models were based on the self-declaration supplied by clients.  
**Intertek** takes no responsibility for any issues of product consistency caused by inaccurate and/or invalid information submitted by the client.

Conclusion:

<u>Tested sample</u>	<u>Standard</u>	<u>Result</u>
Tested component of Submitted sample	Screening by XRF spectroscopy and chemical confirmation test for RoHS Directive 2011/65/EU.	Pass

To be continued

Authorized By:  
For Intertek Testing Services Ltd, Shanghai

Jonny Jing  
Operation Manager



**Intertek Testing Services Ltd., Shanghai**

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Tests Conducted

Determination of levels of regulated substances in electrotechnical products, elements of Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr) and Bromine (Br) contents were measured by XRF Spectroscopy and chemical confirmation test for RoHS restricted substances.

(A) Results:

Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
1	Metal upper shell (black metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
2	Metal lower shell (black metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
3	Top handle (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
4	The lower handle (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
5	Plastic film (red nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	

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To be continued

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
6	Plastic sheet (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
7	Gasket (white nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
8	Gasket (white nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
9	Plastic rack (white nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
10	Heat conductive adhesive (white nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
11-1	Expansion screw plastic (white nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
11-2	Expansion screw (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	X	Cr <sup>6+</sup> = Negative	
			Br	NA	/	
12-1	Red knob (red nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
12-2	Red knob (white nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
12-3	Spring (white metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
13-1	Plate (silver metal)	/	Cd	X	Cd = ND	Pass
			Pb	X	Pb = ND	
			Hg	P	/	
			Cr	X	Cr <sup>6+</sup> = Negative	
			Br	NA	/	
13-2	Soldering tin (silver metal)	/	Cd	X	Cd = ND	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
13-3	Light (silver nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
14	Wave mats (transparent nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
15	Screw (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	X	Cr <sup>6+</sup> = Negative	
			Br	NA	/	
16	Screw (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
17	Screw (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	X	Cr <sup>6+</sup> = Negative	
			Br	NA	/	
18	Screw (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	X	Cr <sup>6+</sup> = Negative	
			Br	NA	/	

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
19	Screw (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	X	Cr <sup>6+</sup> = Negative	
			Br	NA	/	
20-1	Bolt (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
20-2	Nut (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
20-3	Nut (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
20-4	Gasket (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	X	Cr <sup>6+</sup> = Negative	
			Br	NA	/	
20-5	Gasket (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
21	Black plastic rack (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=342ppm	
22	Plastic shell (red nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
23	Plastic shell (red nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
24	The handle (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
25	Rubber plug (grey nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
26-1	Plastic sheet (transparent nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
26-2	Sticker (blue nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
26-3	Nut (metal)	/	Cd	P	/	Pass
			Pb	X	Pb = 28477ppm#1	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
27-1	Socket shell (white nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
27-2	Socket metal foot (silver metal)	/	Cd	X	Cd = ND	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
27-3	The magnetic metal wire (yellow metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
27-4	The magnetosphere (green nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
27-5	Outer skin (brown nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
27-6	Aluminum skin (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
27-7	Electrolytic paper (brown nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
27-8	Electrolytic metal film (brown metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
27-9	Electrolytic metal film (brown metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
27-10	Rubber pad (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
27-11	Metal feet (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
27-12	Magnetic ring copper wire (yellow metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
27-13	Magnetic rings (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
27-14	Magnetic ring copper wire (yellow metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
27-15	Magnetic rings (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
27-16	Plugged plastic pedestal (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
27-17	Metal needle (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
27-18	USB shell (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
27-19	Plastic sheet (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
27-20	Metal feet (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
27-21	Coil metal wire (yellow metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
27-22	The magnet coil (black metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
27-23	Coil rubber (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
27-24	Plastic head (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
27-25	Coil metal wire (yellow metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
27-26	Coils (green nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
27-27	Pins (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
27-28	Pins (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
27-29	Three resistance (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
27-30	Small chip (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
27-31	Small patch resistance (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
27-32	PCB (green nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
27-33	Soldering tin (silver metal)	/	Cd	X	Cd = ND	Pass
			Pb	X	Pb=568ppm	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
28-1	Light guide column (white nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
28-2	PCB (white nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
29	Plastic sheet (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
30-1	Sheet metal (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
30-2	Spring (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
30-3	Soldering tin (silver metal)	/	Cd	X	Cd = ND	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	X	Cr <sup>6+</sup> = Negative	
			Br	NA	/	
31-1	Joint (white nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
31-2	Wire (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
31-3	Line skin (white nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
31-4	Line skin (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
31-5	Line skin (red nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
31-6	Line skin (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
31-7	Line skin (red nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
31-8	Joint (silver metal)	/	Cd	X	Cd = ND	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
32-1	Line skin (white nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
32-2	Line skin (red nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
32-3	Line skin (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
32-4	Joint (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
32-5	Joint (silver metal)	/	Cd	X	Cd = ND	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
33-2	Shell (green nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
33-3	Screw (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
33-4	Shell (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
33-6	Sheet metal (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	X	Cr <sup>6+</sup> = Negative	
			Br	NA	/	

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
34	Shell (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
35	Lamp board (transparent nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
36-1	Sheet metal (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
36-2	Shrapnel (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
36-3	Button (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
36-4	Plastic rack (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	

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To be continued

**XRF Screening and Chemical Confirmation Test Report**

Number: 180300332SHA-001(R1)

Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
36-5	Small chip (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
36-6	Light (yellow nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
36-7	Soldering tin (silver metal)	/	Cd	P	/	Pass
			Pb	X	Pb = ND	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
36-8	PCB (white nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
37-2	Metal shell (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	

To be continued

**XRF Screening and Chemical Confirmation Test Report**

Number: 180300332SHA-001(R1)

Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
37-4	Pins (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
38	Plastic rack (white nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
39	Plastic head (red nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
40-1	Plastic sheet (yellow nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
40-2	Small chip (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	

To be continued

**XRF Screening and Chemical Confirmation Test Report**

Number: 180300332SHA-001(R1)

Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
40-3	Small resistance (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
40-4	PCB (green nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
41	Magnets (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
42-1	Plastic rack (green nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
42-3	Screw (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	X	Cr <sup>6+</sup> = Negative	
			Br	NA	/	

To be continued

**XRF Screening and Chemical Confirmation Test Report**

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
42-4	Sheet metal (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	X	Cr <sup>6+</sup> = Negative	
			Br	NA	/	
43	Plastic shell (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
44	Shell (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
45-1-1	Lamp head (white nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
45-1-2	Metal foot (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
45-1-3	Circular resistance (brown nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	

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To be continued

**XRF Screening and Chemical Confirmation Test Report**

Number: 180300332SHA-001(R1)

Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
45-1-4	Circular resistance (blue nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
45-1-5	Coil rubber (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
45-1-6	Magnetic column (black metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	X	Cr <sup>6+</sup> = Negative	
			Br	NA	/	
45-1-7	Copper wire (yellow metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
45-1-8	Circular resistance (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
45-1-9	Round resistance metal foot (silver metal)	/	Cd	X	Cd = ND	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	

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To be continued

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
45-1-10	Capacitive outer skin (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
45-1-11	Tape (blue nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
45-1-12	Small ceramic resistance (grey nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
45-1-13	Copper tape (yellow metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
45-1-14	Soldering tin (silver metal)	/	Cd	X	Cd = ND	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
45-1-15	Tape (yellow nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	

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To be continued

**XRF Screening and Chemical Confirmation Test Report**

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
45-1-16	Magnetic frame (black metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
45-1-17	Copper wire (yellow metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
45-1-18	Plastic rack (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
45-1-19	Soldering tin (silver metal)	/	Cd	X	Cd = ND	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
45-1-20	Outer skin (green nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
45-1-21	Circuit board soldering tin (silver metal)	/	Cd	X	Cd = ND	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	X	Cr <sup>6+</sup> = Negative	
			Br	NA	/	

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To be continued

**XRF Screening and Chemical Confirmation Test Report**

Number: 180300332SHA-001(R1)

Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
45-1-22	Small resistance (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
45-1-23	PCB (green nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	
45-2	Wire (red nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
45-3	Tape (white nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
45-4	Sticker (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	

To be continued

**XRF Screening and Chemical Confirmation Test Report**

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
46-1	Rubber plug (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
46-2	Sheath (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
46-3	Line skin (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
46-4	Metal shell (silver metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
46-5	Line skin (black nonmetal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBBs=ND PBDEs=ND	

To be continued

**XRF Screening and Chemical Confirmation Test Report**

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on RoHS
46-6	Wire (yellow metal)	/	Cd	P	/	Pass
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	

Remark: P = Pass (Below the lower screening limit of table (B))  
 X = Inconclusive result (Further chemical test was suggested (see table (B).)  
 NA = Not applicable  
 ND = Not detected  
 ppm = Parts per million = mg/kg  
 µg/cm<sup>2</sup> = Microgram per square centimetre

Negative = A negative test result indicated the absorbance value of testing sample solution for Cr(VI) testing is less than the absorbance value of the 0.10µg/cm<sup>2</sup> equivalent comparison standard solution, the Cr(VI) concentration is below the limit of quantification, then the sample is considered to be negative for Cr(VI).

The related expanded uncertainty (U<sub>95</sub>) of the Lead (Pb) / Cadmium (Cd) test is 10%.

(#1) = As claimed by the declaration submitted by the client, the Lead content of the components is coming from the copper alloy, the limit for Lead is 40,000ppm.

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To be continued

**XRF Screening and Chemical Confirmation Test Report**

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(B) XRF screening limits in mg/kg for regulated elements in various matrices.

Element	Polymer materials	Metallic materials	Composite materials
Cd	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 150 \leq F$
Pb	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Hg	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Cr	$P \leq 700 < X$	$P \leq 700 < F$	$P \leq 500 < X$
Br	$P \leq 300 < X$	Not applicable	$P \leq 250 < X$

(C) Estimated detection limits in mg/kg for regulated elements in various matrices.

Element	Polymer materials	Metallic materials	Composite materials
Cd	50	70	70
Pb	100	200	200
Hg	100	200	200
Cr	100	200	200
Br	200	Not applicable	200

**Disclaimers :**

**This XRF screening 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 results shown in this XRF screening 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 is required to obtain quantitative data.**

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To be continued

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**XRF Screening and Chemical Confirmation Test Report**

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(D) Chemical confirmation test methods:

Testing Item	Testing Method	Reporting Limit
Cadmium (Cd) content	With reference to : IEC 62321-5 Edition 1.0: 2013, by acid digestion until the tested sample was totally dissolved, and determined by ICP-OES.	2 mg/kg
Lead (Pb) content	With reference to: IEC 62321-5 Edition 1.0: 2013, by acid digestion until the tested sample was totally dissolved, and determined by ICP-OES.	2 mg/kg
Mercury (Hg) content	With reference to: IEC 62321-4 Edition 1.0: 2013, by acid digestion until the tested sample was totally dissolved, and determined by ICP-OES.	2 mg/kg
Chromium (VI) (Cr <sup>6+</sup> ) content (for non-metal)	With reference to IEC 62321-7-2 Edition 1.0: 2017, by organic solvent dissolution or swell the sample matrix, followed by alkaline digestion and determined by UV-VIS Spectrophotometer.	10mg/kg
Chromium (VI) (Cr <sup>6+</sup> ) content (for metal)	With reference to IEC 62321-7-1 Edition 1.0:2015, by boiling water extraction and determined by UV-VIS Spectrophotometer.	Positive(>0.13 µg/m <sup>2</sup> ) Negative(<0.10 µg/m <sup>2</sup> ) Inconclusive(0.10–0.13 µg/m <sup>2</sup> )
Polybrominated biphenyls (PBBs)& polybrominated diphenyl ethers (PBDEs)	With reference to IEC 62321-6 Edition 1.0:2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary	5 mg/kg

(E) RoHS requirement

Restricted substances	Limits
Cadmium (Cd)	0.01% (100 ppm)
Lead (Pb)	0.1% (1000 ppm)
Mercury (Hg)	0.1% (1000 ppm)
Chromium (VI) (Cr <sup>6+</sup> )	0.1% (1000 ppm)
Polybrominated biphenyls (PBBs)	0.1% (1000 ppm)
Polybrominated diphenyl ethers (PBDEs)	0.1% (1000 ppm)

The above limits were quoted from RoHS Directive 2011/65/EU.

Date sample received : Mar 13, 2018  
 Testing period: Mar 13, 2018 to Mar 30, 2018

To be continued

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**Sample disassembling Photo(s)**

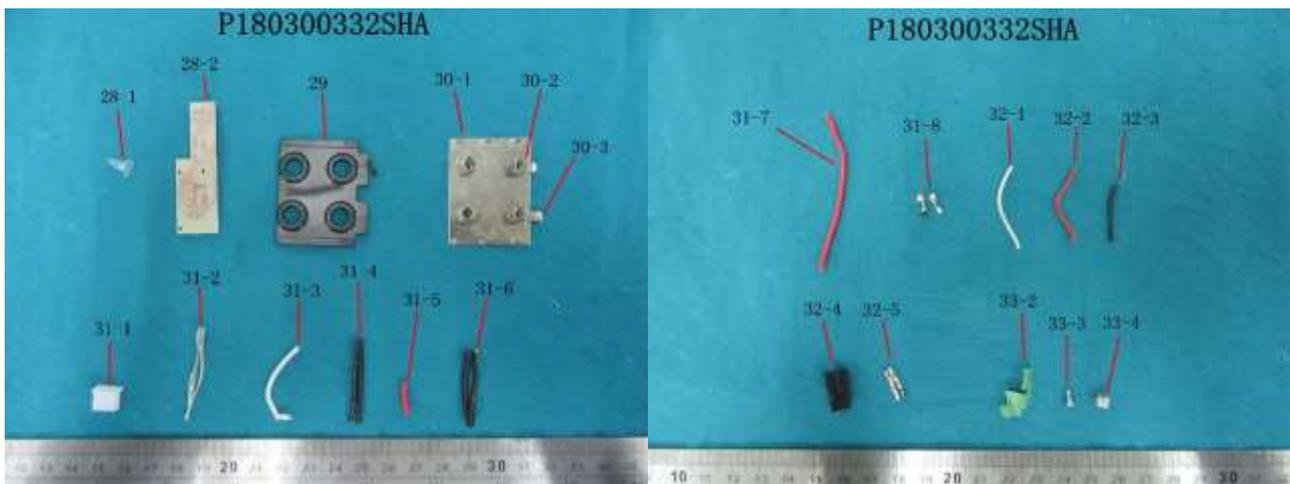
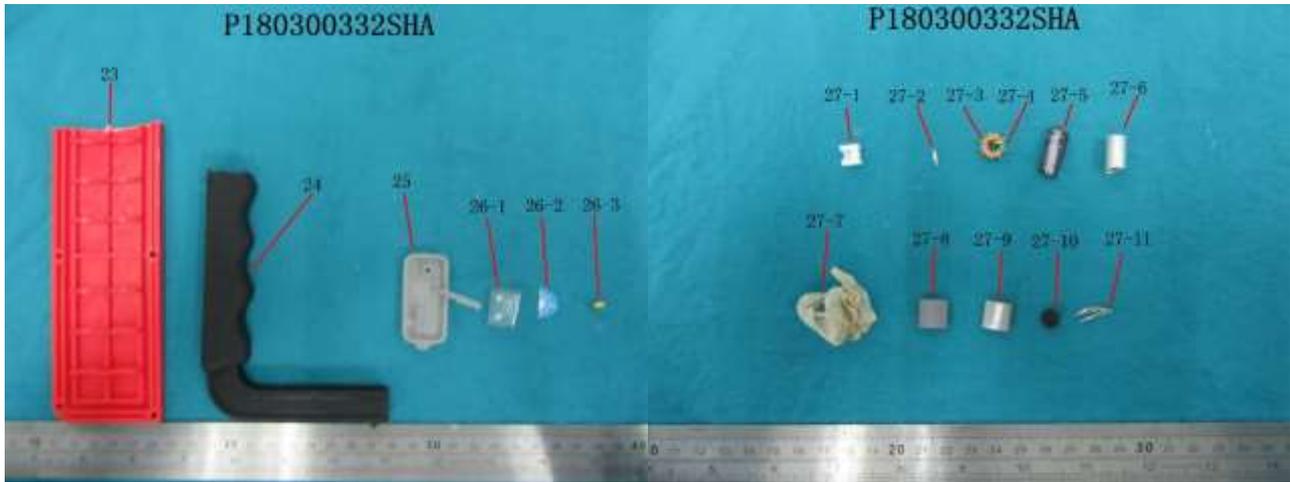


To be continued

**XRF Screening and Chemical Confirmation Test Report**

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**Sample disassembling Photo(s)**

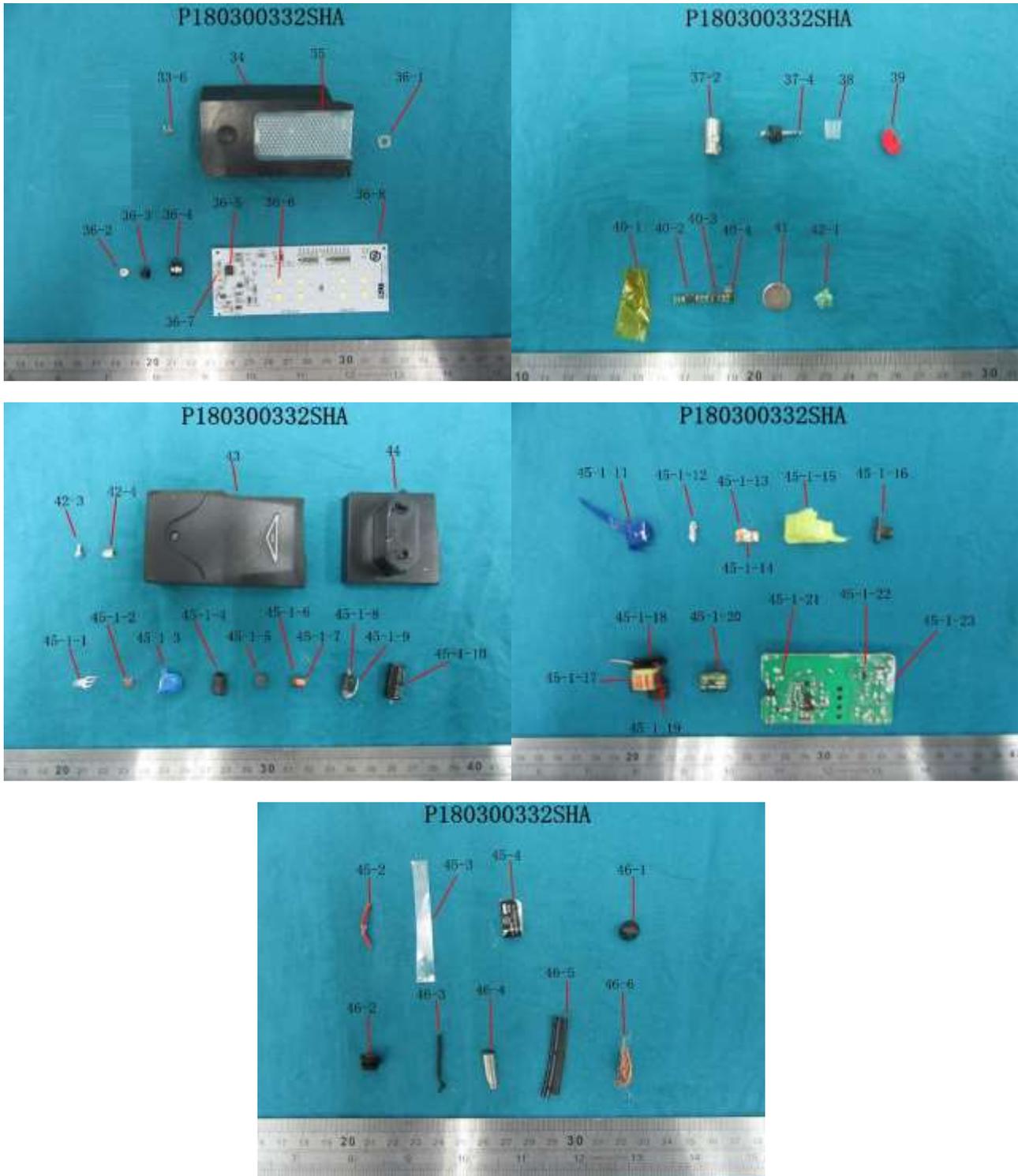


To be continued

## XRF Screening and Chemical Confirmation Test Report

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### Sample disassembling Photo(s)



End of this report



Total Quality. Assured.

**XRF Screening and Chemical Confirmation Test Report**

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