

XRF Screening and Chemical Confirmation Test Report

Applicant: Zhejiang Changcheng Trading Co., Ltd.

DianHou Village, Liushi Town, Yueqing City, Zhejiang, China

Date: Sep. 25, 2023

230900144SHA-001

Number:

Sample Description:

Item Name : **MCB**Testing Model : YCB9-80H,

Manufacturer Name : Changcheng Electrical Group Zhejiang Technology Co., Ltd

Reference Model : YCB9-80M

Tests Conducted:

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

Conclusion:

Tested sample Standard Restriction of the use of certain hazardous substance in Pass

Submitted sample electrical and electronic equipment (RoHS Directive

2011/65/EU and (EU) 2015/863)

To be continued

Authorized By: For Intertek Testing Services

Wenjia Gu Senior Manager





XRF Screening and Chemical Confirmation Test Report

Tests Conducted

Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr) and bromine (Br) content were measured with reference to IEC 62321-3-1 Edition 1.0:2013 by XRF spectroscopy and chemical confirmation test for RoHS restricted substances. And Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs) and Phthalates content were determined by Gas Chromatographic-Mass Spectrometric (GC-MS).

Number:

230900144SHA-001

(A) Results:

Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Screened Results (BLphthalate s)	Chemical Confirmation Result	Conclusion on RoHS
			Cd	Р		/	
			Pb	Р		/	
			Hg	Р	NA	/	
	RIVET		Cr	Р		/	
1	(SILVER	/	Br	NA		/	PASS
	METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
			Cd	Р		/	
			Pb	Р		/	
			Hg	Р	NA	/	
	SEALING		Cr	Р		/	
2	2 PATCH (GREY NONMETAL)	/	Br	Р		/	PASS
			DEHP	NA	Х	350 ppm	
			BBP	NA	BL	/	
			DBP	NA	BL	/	
			DIBP	NA	BL	/	

To be continued







Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Screened Results (BLphthalate s)	Chemical Confirmation Result	Conclusion on RoHS
			Cd	Р		/	
			Pb	Р		/	
	INSULATING		Hg	Р	NA	/	
			Cr	Р		/	
3	PARTITION (WHITE	/	Br	Р		/	PASS
	PLASTIC)		DEHP	NA	BL	/	
			BBP	NA	BL	/	
			DBP	NA	BL	/	
			DIBP	NA	BL	/	
		E / ER	Cd	Р		/	
			Pb	Р	NA	/	
			Hg	Р		/	
	CONTACT		Cr	Р		/	
4	PIECE (COPPER		Br	NA		/	PASS
	METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
			Cd	Р		/	
			Pb	Р		/	
			Hg	Р	NA	/	
	DRIVING		Cr	Р		/	
5	DISC	/	Br	Х		PBBs=ND PBDEs=ND	PASS
			DEHP	NA	BL	1	
			BBP	NA	BL	/	
			DBP	NA	BL	/	
			DIBP	NA	BL	******	

To be continued

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			Cd	Р		/	
			Pb	Р		/	
			Hg	Р	NA	/	
	DRIVING		Cr	Х		Cr ⁶⁺ =Negative	
6 LEVER (SILVER METAL)	/	Br	NA		/	PASS	
		DEHP	NA	NA	/		
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
			Cd	Р		/	
			Pb	Р	NA	/	
			Hg	Р		/	
	SWITCH		Cr	Р		/	
7	(RED	/	Br	Р		/	PASS
	PLASTIC)		DEHP	NA	BL	/	
			BBP	NA	BL	/	
			DBP	NA	BL	/	
			DIBP	NA	BL	/	
			Cd	Р		/	
			Pb	Р		/	
			Hg	Р	NA	/	
	CLASP		Cr	Р		/	
8	(RED	/	Br	Р		/	PASS
	PLASTIC)		DEHP	NA	BL	/	
			BBP	NA	BL	/	
			DBP	NA	BL	/	
			DIBP	NA	BL	/	

To be continued

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			Cd	Р		/	
			Pb	Р		/	
			Hg	Р	NA	/	
	9 CONTACT PIECE (COPPER		Cr	Р		/	
9		/	Br	NA		/	PASS
	METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
		/	Cd	Р		/	
			Pb	Р		/	
			Hg	Р	NA	/	
	SHELL		Cr	Р		/	
10	(WHITE		Br	Р		/	PASS
	PLASTIC)		DEHP	NA	BL	/	
			BBP	NA	BL	/	
			DBP	NA	BL	/	
			DIBP	NA	BL	/	
			Cd	Р		/	
			Pb	Р		/	
			Hg	Р	NA	/	
	ARC CHUTE		Cr	Р		/	
11		/	Br	Р		/	PASS
			DEHP	NA	BL	/	
			BBP	NA	BL	/	
			DBP	NA	BL	/	
			DIBP	NA	BL	/	

To be continued

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			Cd	Р		/	
			Pb	Р		/	
	ARC EXTINGUISH		Hg	Р	NA	/	
			Cr	Р		/	
12	ER PLATE	/	Br	NA		/	PASS
	(SILVER METAL)		DEHP	NA	NA	/	
	,		BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
		/	Cd	Р		/	
			Pb	Р	NA	/	
			Hg	Р		/	
	TERMINAL		Cr	Р		/	
13	(SILVER		Br	NA		/	PASS
	METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
			Cd	Р		/	
			Pb	Р		/	
			Hg	Р	NA	/	
	CONTACT		Cr	Р		/	
14	DIECE	/	Br	NA		/	PASS
			DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	

To be continued

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			Cd	Р		/	
			Pb	Р		/	
			Hg	Р	NA	/	
	SCREW 15 (SILVER		Cr	Р		/	
15		/	Br	NA		/	PASS
	METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
16	ASSY						
			Cd	Р		/	
			Pb	Р	NA	/	
			Hg	Р		/	
	SUPPORT		Cr	Р		/	
16-1	(WHITE PLASTIC)	/	Br	Х		PBBs=ND PBDEs=ND	PASS
	1 2 (3 (10)		DEHP	NA	BL	/	
			BBP	NA	BL	/	
			DBP	NA	BL	/	
			DIBP	NA	BL	/	
			Cd	Р		/	
			Pb	Р		/	
			Hg	Р	NA	/	
	ROD		Cr	Р		/	
16-2	(SILVER	/	Br	NA		/	PASS
	METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	

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			Cd	Р		/	
			Pb	Р		/	
			Hg	Р	NA	/	
	SPRING		Cr	Р	[/	
16-3	16-3 (SILVER	/	Br	NA		/	PASS
	METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
		/	Cd	Р		/	
			Pb	Р		/	
			Hg	Р	NA	/	
	SHEATH		Cr	Р		/	
16-4	(SILVER		Br	NA		/	PASS
	METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
			Cd	Р		/	
			Pb	Р	[/	
			Hg	Р	NA	/	
	BUTTON		Cr	Р		/	
16-5 (SILVER	/	Br	NA		/	PASS	
	METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	

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			Cd	Р	j	/	
			Pb	Р		/	
			Hg	Р	NA	/	
COIL 17 (COPPER		Cr	Р		/		
	/	Br	NA		/	PASS	
	METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
		DBP	NA	NA	/		
		DIBP	NA	NA	/		
			Cd	Р		/	
		/	Pb	Р	NA	/	
			Hg	Р		/	
	CONTACT		Cr	Р		/	
18	PIECE (SILVER		Br	NA		/	PASS
	METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
			Cd	Р		/	
			Pb	Р		/	
			Hg	Р	NA	/	
	HEEL PIECE		Cr	Р		/	
19	(SILVER	/	Br	NA		/	PASS
	METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	

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			Cd	Р		/	
			Pb	Р		/	
	SPRING		Hg	Р	NA	/	
			Cr	Х		Cr ⁶⁺ =Negative	
20	(SILVER	/	Br	NA		/	PASS
	METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
			Cd	Р		/	
		/	Pb	Р		/	
			Hg	Р	NA	/	
	SPRIGN		Cr	Х		Cr ⁶⁺ =Negative	
21	(SILVER		Br	NA		/	PASS
	METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
			Cd	Р		/	
			Pb	Р		/	
			Hg	Р	NA	/	
	BOLT		Cr	Х		Cr ⁶⁺ =Negative	
22		/	Br	NA		/	PASS
			DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	

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			Cd	Р		/	
			Pb	Р		/	-
			Hg	Р	NA	/	-
			Cr	Р		/	
23	23 (RED PLASTIC)	/	Br	Х		PBBs=ND PBDEs=ND	PASS
			DEHP	NA	BL	/	
			BBP	NA	BL	/	
			DBP	NA	BL	/	
			DIBP	NA	BL	/	
			Cd	Р		/	
		ER /	Pb	Р		1	
			Hg	Р	NA	/	
	SPRING		Cr	Р		/	
24	(SILVER		Br	NA		/	PASS
	METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
25	ASSY						
			Cd	Р		/	
			Pb	Р		/	
			Hg	Р	NA	/	
	DRIVING		Cr	Р		/	
25-1	LINIT	/	Br	Р		/	PASS
			DEHP	NA	BL	/	
			BBP	NA	BL	/	
			DBP	NA	BL	/	
			DIBP	NA	BL	/	

To be continued

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			Cd	Р		/	
			Pb	Р		/	
			Hg	Р	NA	/	
FIXED PART (CLEAR		Cr	Р		/		
	/	Br	Р		/	PASS	
	PLASTIC)		DEHP	NA	BL	/	
			BBP	NA	BL	/	
			DBP	NA	BL	/	
		DIBP	NA	BL	/		
			Cd	Р		/	
		/	Pb	Р	NA	/	
			Hg	Р		/	
	CONTACT		Cr	Р		/	
26-1	PIECE (SILVER		Br	NA		/	PASS
	METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
			Cd	Р		/	
			Pb	Р		/	
			Hg	Р	NA	/	
	SPRING		Cr	Р		/	
26-2	(SILVER	/	Br	NA		/	PASS
	METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	

To be continued

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			Cd	Р		/	
			Pb	Р		/	
			Hg	Р	NA	/	
			Cr	Х		Cr ⁶⁺ =Negative	
27		/	Br	NA		/	PASS
	METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
		DDE /	Cd	Р		/	
			Pb	Р	NA	/	
	400		Hg	Р		/	
	ARC- EXTINGUISHI		Cr	Р		/	
28	NG ELECTRODE		Br	NA		/	PASS
	(COPPER METAL)		DEHP	NA	NA	/	
	METAL)		BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
			Cd	Р		/	
			Pb	Р		/	
			Hg	Р	NA	/	
	29 STATIONARY CONTACT (COPPER METAL)		Cr	Р		/	
29		/	Br	NA		/	PASS
			DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	

To be continued

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			Cd	Р		/	
			Pb	Р	NA	/	
			Hg	Р		/	
	LEAD		Cr	Р		/	
30	(COPPER	/	Br	NA		/ PAS	PASS
	METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
	STATIONARY CONTACT PIECE	CONTACT PIECE / (SILVER	Cd	Р	NA	/	PASS
			Pb	Р		/	
			Hg	Р		/	
			Cr	X		Cr ⁶⁺ =Negative	
31			Br	NA		/	
	(SILVER METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
		CONTACT PIECE (SILVER METAL)	Cd	Р	NA	/	
			Pb	Р		/	
			Hg	Р		/	
32	(SILVER		Cr	Р		1	
			Br	NA		1	PASS
			DEHP	NA	NA	1	
			BBP	NA	NA	1	
			DBP	NA	NA	1	
			DIBP	NA	NA	******	

To be continued

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			Cd	Р	NA	/	
			Pb	Р		/	
			Hg	Р		/	
	NUT		Cr	Р		/	
33	(GOLD	/	Br	NA		/	PASS
	METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
	SCREW (BLACK	BLACK /	Cd	Р	NA	/	
			Pb	Р		/	
			Hg	Р		/	
			Cr	Р		/	
34			Br	NA		/	PASS
	METAL)		DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
			Cd	Р	NA	/	
		SHELL (WHITE / PLASTIC)	Pb	Р		/	
35			Hg	Р		/	
	CHELL		Cr	Р		/	
	(WHITE PLASTIC)		Br	Р		/	PASS
			DEHP	NA	BL	/	
			BBP	NA	BL	/	
			DBP	NA	BL	/	
			DIBP	NA	BL	/	

To be continued

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			Cd	Р	NA	/	PASS
			Pb	Р		/	
			Hg	Р		/	
	SHELL	/	Cr	Р		/	
36	(RED		Br	Р		/	
	PLASTIC)		DEHP	NA	BL	/	
			BBP	NA	BL	/	
			DBP	NA	BL	/	
			DIBP	NA	BL	/	
		BOLT (WHITE / PLASTIC)	Cd	Р	NA	/	PASS
	(WHITE		Pb	Р		/	
			Hg	Р		/	
			Cr	Р		/	
37			Br	Р		/	
			DEHP	NA	BL	/	
			BBP	NA	BL	/	
			DBP	NA	BL	/	
			DIBP	NA	BL	/	

Remark: P = Pass (Below the lower screening limit of table (B1))

X = Inconclusive result (Further chemical test was suggested (see table (B1).)

BL=Below the lower screening limit of table (B2) and pass

NA = Not applicable ND = Not detected

ppm = Parts per million = mg/kg
Negative=The Cr (VI) concentration is less than 0.10 μg/cm². The sample is negative for Cr (VI).

To be continued

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XRF Screening and Chemical Confirmation Test Report

(B)

(B1) XRF Screening Limits in mg/kg for Regulated Elements in Various Matrices.

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

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(B2) Preliminary screening test will used for phthalates, if the results exceed the warning area in the following table, further chemical methods will conduct to confirm the exact content by GC/MS.

Phthalates	Polymer
Bis(2-ethylhexyl)phthalate(DEHP)	BL ≤600 <x< td=""></x<>
Butyl benzyl phthalate(BBP)	BL ≤600 <x< td=""></x<>
Dibutyl phthalate(DBP)	BL ≤600 <x< td=""></x<>
Diisobutyl phthalate(DIBP)	BL ≤600 <x< td=""></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 and Chemical Confirmation Test 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 and Chemical Confirmation Test Report is sufficient for its/his/her purposes.

The results shown in this XRF Screening and Chemical Confirmation Test 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.

To be continued

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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 and determined by ICP - OES	2 mg/kg
Lead (Pb) Content	With reference to IEC 62321-5 Edition 1.0: 2013, by acid digestion and determined by ICP - OES	2 mg/kg
Mercury (Hg) Content	With reference to IEC 62321-4 Edition 1.1: 2017, by acid digestion and determined by ICP - OES	2 mg/kg
Chromium (VI) (Cr ⁶⁺) content (for non-metal)	With reference to IEC 62321-7-2 Edition 1.0:2017, by alkaline digestion and determined by UV-VIS Spectrophotometer	10 mg/kg
Chromium (VI) (Cr ⁶⁺) 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/cm²) / Negative(<0.10 μg/cm²) / Inconclusive(0.10μg /cm² 0.13 μg/cm²)
Polybrominated Biphenyls (PBBs) & Polybrominated Diphenyl Ethers (PBDEs) Content	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
Phthalates(DEHP,BBP,DB P,DIBP) Content	With reference to IEC 62321-8 Edition 1.0:2017, by solvent extraction and determined by GC/MS	100mg/kg

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(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 ⁶⁺)	0.1% (1000 ppm)	
Polybrominated biphenyls (PBBs)	0.1% (1000 ppm)	
Polybrominated diphenyl ethers (PBDEs)	0.1% (1000 ppm)	
Phthalates(DEHP, BBP, DBP, DIBP)	0.1% (1000 ppm)	

The above limits were quoted from 2011/65/EU and (EU) 2015/863 for homogeneous material.

Date sample received: Sep. 04, 2023

Testing period: Sep. 04, 2023 to Sep. 14, 2023

To be continued

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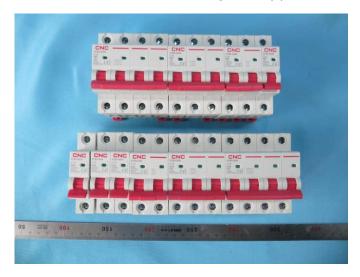
4-5/F (Building C in the Park), No.8 & No.9, Lane 1218, Wanrong Road, Jing'an District, Shanghai. 上海市静安区万荣路1218弄8、9号4-5楼(园区C栋) Tel: +86 21 5339 6000 www.intertek.com www.intertek.com.cn





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Photo of whole tested product(s)

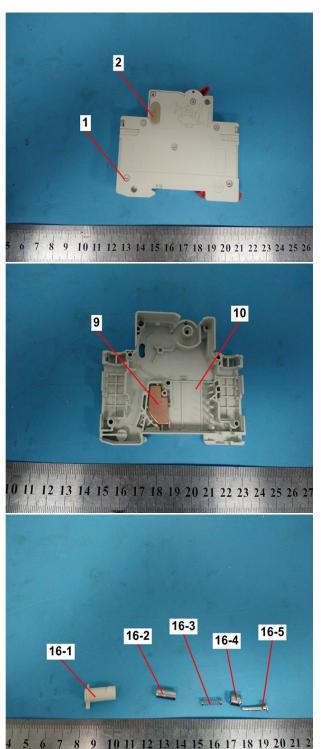


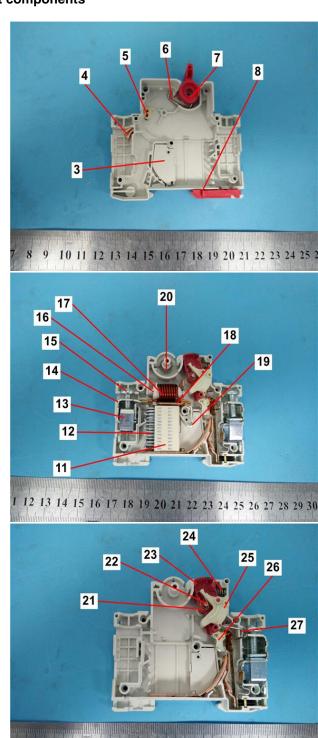
To be continued





Photo of test components





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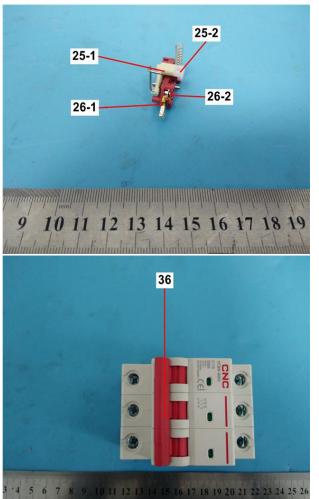
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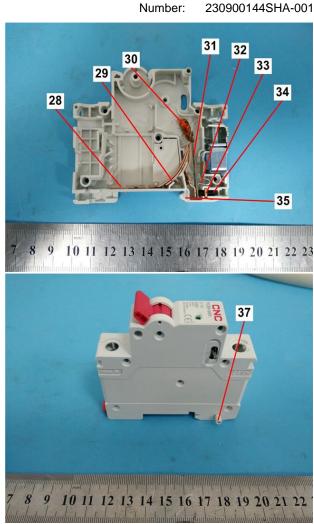
10 11 12 13 14 15 16 17 18 19 20 21 22





XRF Screening and Chemical Confirmation Test Report





End of this report

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