Total Quality. Assured.

No. : 231116005GZU-001
Date: Dec 15, 2023

XRF Screening And Chemical Confirmation Test Report

Applicant: UNI-TREND TECHNOLOGY (CHINA) CO., LTD.

No 6, Gong Ye Bei 1 st Road, Songshan Lake National High-Tech Industrial Development Zone, Dongguan City, Guangdong Province, China

Sample Description:
The following submitted sample(s) said to be:

Item Name	:	**Pinless Moisture Meter**
Model No.	:	UT377C
Date of Sample Received	:	Nov 17, 2023 & Nov 30, 2023
Testing Period	:	Nov 17, 2023 to Dec 14, 2023

Tests conducted:
As requested by the applicant, refer to following page(s) for details.

Conclusion:

Tested Sample	Standard	Result
Tested components of submitted sample	Screening by XRF spectroscopy and chemical confirmation test for RoHS Directive 2011/65/EU and (EU) 2015/863	Pass

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch:

Prepared by:

Bryce Lai
Project Engineer

Reviewed by:

Michael Pang
Asst. Technical Supervisor

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Certain Hazardous Substance in Electrical and Electronic Equipment

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).

(A) Results:

Screened Components	Items	XRF Results	Screened Results(phthalates)	Chemical Confirmation Result
1	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
2	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
3	Cd	ND	NA	Cr^{6+}: Negative
	Pb	ND		
	Hg	ND		
	Cr	Inconclusive		
	Br	NT		
	DEHP	NA	NA	NA
	BBP			
	DBP			
	DIBP			
4	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	

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Screened Components	Items	XRF Results	Screened Results(phthalates)	Chemical Confirmation Result
5	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
6	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
7	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
8	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
9	Cd	ND	NA	Cr^{6+}: Negative
	Pb	ND		
	Hg	ND		
	Cr	Inconclusive		
	Br	NT		
	DEHP	NA	NA	NA
	BBP			
	DBP			
	DIBP			

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10a	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
10b	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
10c	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
10d	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
10e	Cd	ND	NA	PBBs : ND PBDEs : ND
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	Inconclusive		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	

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10f	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	NT		
	DEHP	NA	NA	NA
	BBP			
	DBP			
	DIBP			
10g	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
10h	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	NA	NA
	BBP			
	DBP			
	DIBP			
10i	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
10j	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	

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10k	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	NT	ND
	BBP			ND
	DBP			ND
	DIBP			ND
10l	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
10m	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
10n	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	NT	ND
	BBP			ND
	DBP			ND
	DIBP			ND
11a	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	

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11b	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	NT		
	DEHP	NA	NA	NA
	BBP			
	DBP			
	DIBP			
11c	Cd	ND	NA	Cr^{6+}: Negative
	Pb	ND		
	Hg	ND		
	Cr	Inconclusive		
	Br	NT		
	DEHP	NA	NA	NA
	BBP			
	DBP			
	DIBP			
11d	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
12	Cd	ND	NA	Cr^{6+}: Negative
	Pb	ND		
	Hg	ND		
	Cr	Inconclusive		
	Br	NT		
	DEHP	NA	NA	NA
	BBP			
	DBP			
	DIBP			
13	Cd	ND	NA	NT
	Pb	>1500mg/kg[#2]		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	

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Screened Components	Items	XRF Results	Screened Results(phthalates)	Chemical Confirmation Result
14	Cd	ND	NA	NT
	Pb	Detected		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	NA	NA
	BBP			
	DBP			
	DIBP			
15	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
16	Cd	ND	NA	NT
	Pb	Detected		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	NA	NA
	BBP			
	DBP			
	DIBP			
17	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	NA	NA
	BBP			
	DBP			
	DIBP			
18a	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	

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18b	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
18c	Cd	ND	NA	PBBs : ND PBDEs : ND
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	Inconclusive		
	DEHP	NA	NT	ND
	BBP			ND
	DBP			ND
	DIBP			ND
18d	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	NT		
	DEHP	NA	NA	NA
	BBP			
	DBP			
	DIBP			
19	Cd	ND	NA	NT
	Pb	>1500mg/kg[#2]		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
20	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	

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Screened Components	Items	XRF Results	Screened Results(phthalates)	Chemical Confirmation Result
21	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
22	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	Detected		
	Br	ND		
	DEHP	NA	NA	NA
	BBP			
	DBP			
	DIBP			
23	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	NA	NA
	BBP			
	DBP			
	DIBP			
24	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
25	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	

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Screened Components	Items	XRF Results	Screened Results(phthalates)	Chemical Confirmation Result
26	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
27	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
28	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
29	Cd	ND	NA	PBBs : ND PBDEs : ND
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	Inconclusive		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
30	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	NT		
	DEHP	NA	NA	NA
	BBP			
	DBP			
	DIBP			

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Screened Components	Items	XRF Results	Screened Results(phthalates)	Chemical Confirmation Result
31	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
32	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
33	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
34	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	ND		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
35	Cd	ND	NA	PBBs : ND PBDEs : ND
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	Inconclusive		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	

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Screened Components	Items	XRF Results	Screened Results(phthalates)	Chemical Confirmation Result
36	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	NT		
	DEHP	NA	NA	NA
	BBP			
	DBP			
	DIBP			
37	Cd	ND	NA	Pb:31007mg/kg#1
	Pb	>1300mg/kg		
	Hg	ND		
	Cr	ND		
	Br	NT		
	DEHP	NA	NA	NA
	BBP			
	DBP			
	DIBP			
38	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	NT		
	DEHP	NA	NA	NA
	BBP			
	DBP			
	DIBP			
39	Cd	ND	NA	PBBs : ND PBDEs : ND
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	Inconclusive		
	DEHP	NA	P	NT
	BBP		P	
	DBP		P	
	DIBP		P	
40	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	Detected		
	Br	NT		
	DEHP	NA	NA	NA
	BBP			
	DBP			
	DIBP			

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Screened Components	Items	XRF Results	Screened Results(phthalates)	Chemical Confirmation Result
41	Cd	ND	NA	NT
	Pb	ND		
	Hg	ND		
	Cr	ND		
	Br	NT		
	DEHP	NA	NA	NA
	BBP			
	DBP			
	DIBP			

Detected = Below the lower screening limit of table (B1) and pass
ND = Not detected
NT = Not tested
NA = Not applicable

Negative = The Cr (VI) concentration is less than 0.10 μg/cm^2.The sample is negative for Cr (VI).

Remark:

(# 1) = As claimed by the declaration submitted from the applicant, the Lead content of the component comes from Copper alloy only. According to EU RoHS Directive (2011/65/EU) Annex III 6(c), Lead in Copper alloy containing up to 4% (40,000 mg/kg) Lead by weight can be exempted.

(# 2) = As claimed by the declaration submitted from the applicant, the Lead content of the component comes from the constituent of high melting temperature type solders (i.e. Lead-based alloys containing 85% by weight or more Lead) only. According to EU RoHS Directive (2011/65/EU) Annex III 7(a), Lead in high melting temperature type solders of the component can be exempted.

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(B) Screening Limits

(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 < X	P ≤ 500 < X
Br	P ≤ 300 < X	Not applicable	P ≤ 250 < X

XRF spectrometry provides information on the total quantity of each element present in the sample, but does not identify compounds or valence states of the elements. Therefore, special attention shall be paid when screening for chromium and bromine, where the result will reflect only the total chromium and total bromine present. The presence of Cr(VI) or the brominated flame retardants PBB or PBDE shall be confirmed by a verification test procedure.

P = Pass
X = Inconclusive result
F = Fail
mg/kg = milligram per kilogram = ppm

(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)	P ≤ 600 < X
Butyl benzyl phthalate (BBP)	P ≤ 600 < X
Dibutyl phthalate (DBP)	P ≤ 600 < X
Diisobutyl phthalate (DIBP)	P ≤ 600 < X

P = Pass
X = Inconclusive result

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(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.

(D) Chemical Test Methods:

Test Item	Test Method	Detection Limit
Cadmium (Cd) Content	With reference to IEC 62321-5 Edition 1.0: 2013, by acid digestion and determined by ICP - OES	10 mg/kg
Lead (Pb) Content	With reference to IEC 62321-5 Edition 1.0: 2013, by acid digestion and determined by ICP - OES	10 mg/kg
Mercury (Hg) Content	With reference to IEC 62321-4 Edition 1.1: 2017, by acid digestion and determined by ICP - OES	10 mg/kg
Chromium (VI)(Cr^{6+}) Content	With reference to IEC 62321-7-2 Edition 1.0: 2017, Hexavalent chromium – Determination of hexavalent chromium (Cr(VI) in polymers and electronics by the colorimetric method	10 mg/kg
Chromium (VI) (Cr^{6+}) Content	With reference to IEC 62321-7-1 Edition 1.0: 2015, by boiling water extraction and determined by UV-VIS spectrophotometer	0.10 μg/cm^2
Polybrominated Biphenyls (PBBs) 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	100 mg/kg for single compound
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	100 mg/kg for single compound
Phthalates (DEHP, BBP, DBP, DIBP) Content	With reference to IEC 62321-8 Edition 1.0: 2017, by solvent extraction and determined by GC/MS	100 mg/kg for single compound

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(E) RoHS Requirement:

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr^{6+})	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)
Phthalates (DEHP, BBP, DBP, DIBP)	0.1% (1000 mg/kg)

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

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XRF Screening And Chemical Confirmation Test Report

No. : 231116005GZU-001
Date: Dec 15, 2023

Screened components:

(1) Black plastic with white printing
(2) Red plastic
(3) Black treated metal(screw)
(4) Red plastic
(5) Black plastic with multicolor printing
(6) Grey soft plastic with white printing
(7) Yellow soft plastic with white printing
(8) Transparent plastic with black printing
(9) Black treated metal(screw)
(10)
(10a) Black plastic
(10b) Black soft plastic
(10c) Black soft plastic
(10d) Transparent plastic & white fiberboard with yellow coating & golden metal(SMD LED)
(10e) White PCB
(10f) Solder
(10g) Semi-transparent black plastic
(10h) Transparent glass
(10i) Transparent plastic with multicolor printing
(10j) White plastic
(10k) Black tape
(10l) White plastic
(10m) Transparent plastic with white printing
(10n) Silvery tape
(11) Switch
(11a) Black plastic
(11b) Silvery metal
(11c) Silvery metal
(11d) Black plastic
(12) Black treated metal(screw)
(13) Black body with silvery metal (SMD diode)
(14) White ceramic with black material & white printing & silvery metal(SMD resistor)
(15) Black body with silvery metal (SMD diode)
(16) White ceramic with black material & white printing & silvery metal(SMD resistor)
(17) Brown ceramic with silvery metal(SMD capacitor)
(18) Buzzer
(18a) Black plastic
(18b) Black plastic
(18c) Green PCB
(18d) Solder
(19) Black body with silvery metal (SMD diode)
(20) Black body with silvery metal (IC)

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(21) Black body with silvery metal (SMD triode)
(22) Black magnet(inductor)
(23) White ceramic with silvery metal(SMD capacitor)
(24) Black body with silvery metal (IC)
(25) Black body with silvery metal (IC)
(26) Black body with silvery metal (IC)
(27) Black body with silvery metal
(28) Black body with silvery metal (SMD diode)
(29) Green PCB
(30) Solder
(31) Black soft plastic
(32) Semi-transparent white plastic
(33) Black plastic
(34) Transparent plastic & white fiberboard with yellow coating & golden metal(SMD LED)
(35) Black PCB
(36) Solder
(37) Golden metal
(38) Silvery metal (spring)
(39) Black fiberboard
(40) Silvery metal (spring)
(41) Silvery metal (spring)

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Sample photo

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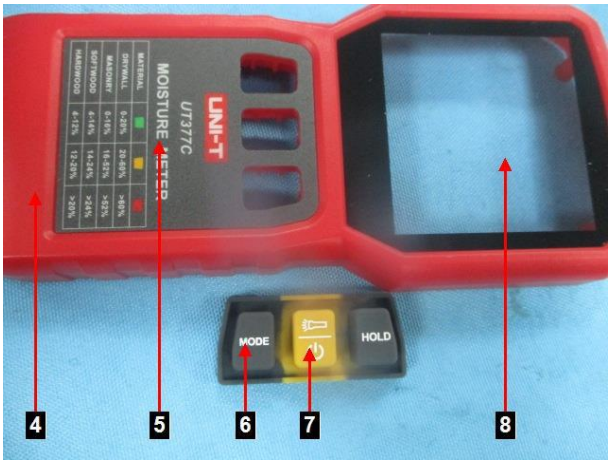

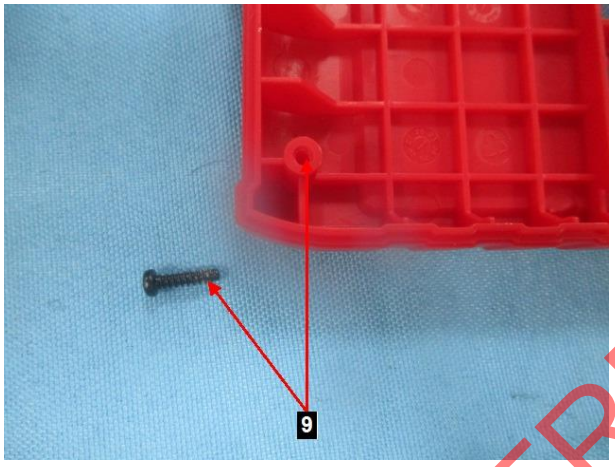

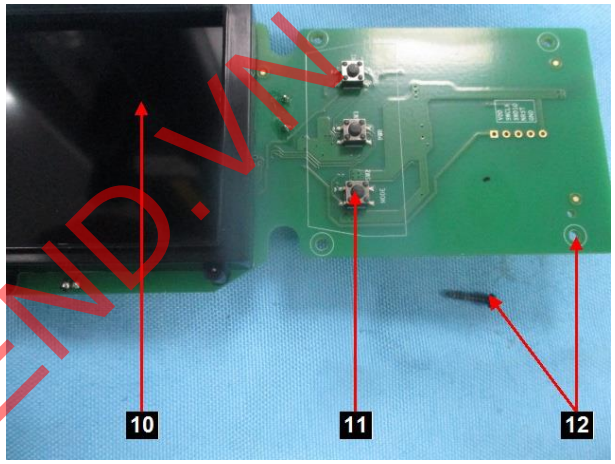

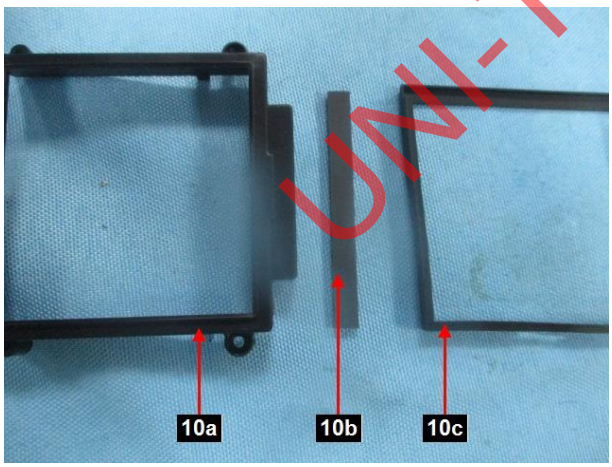

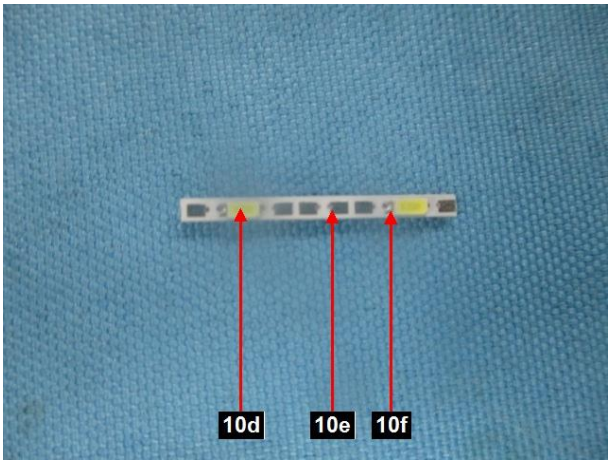

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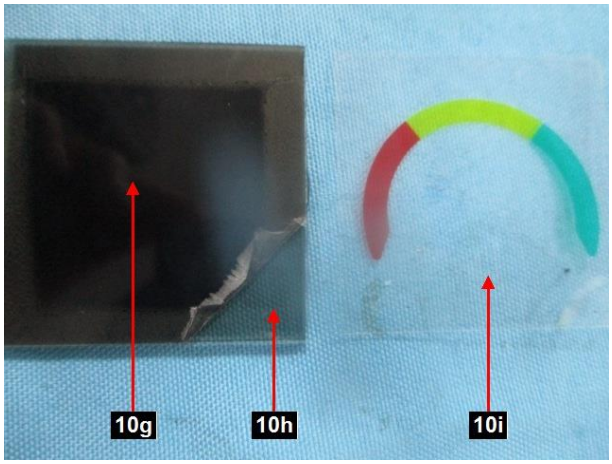

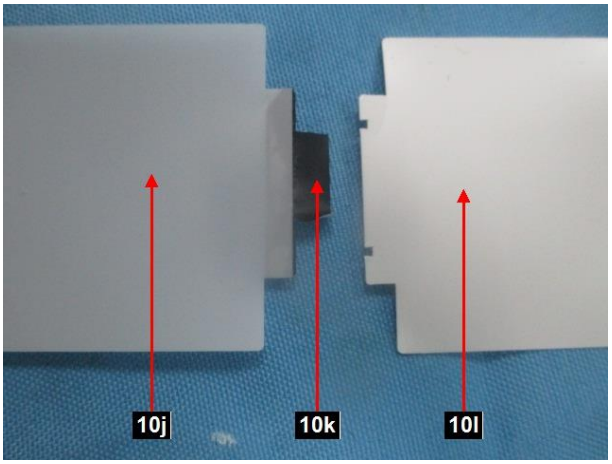

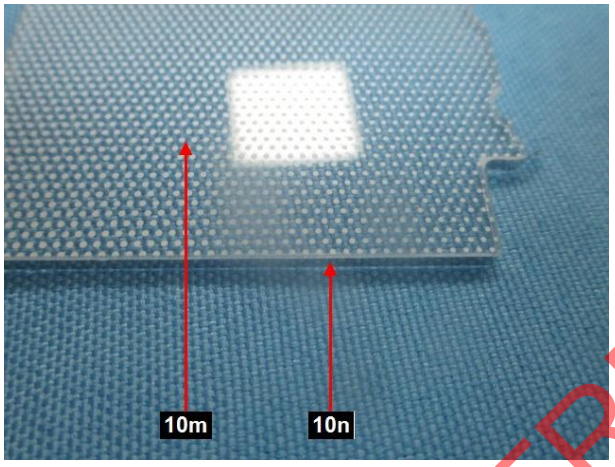

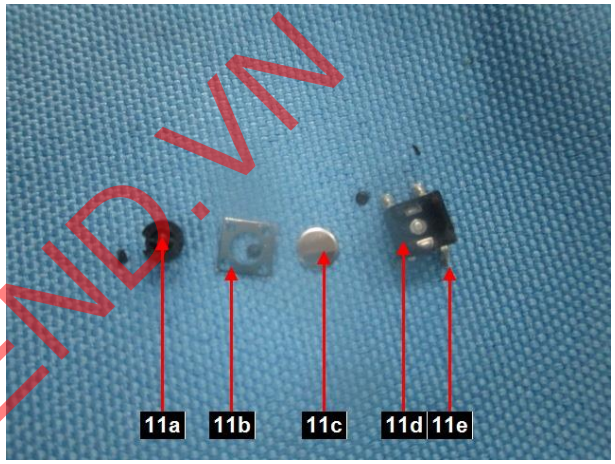

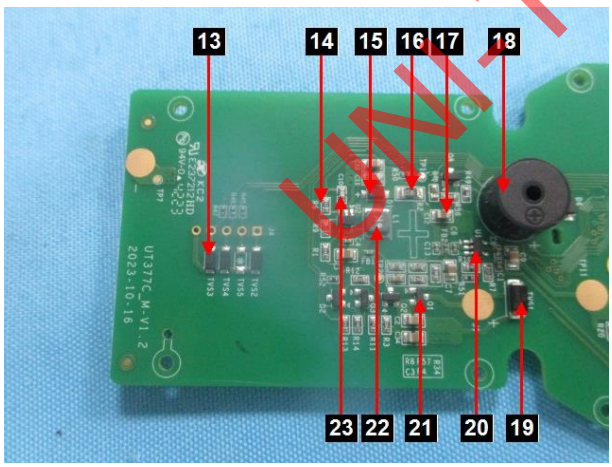

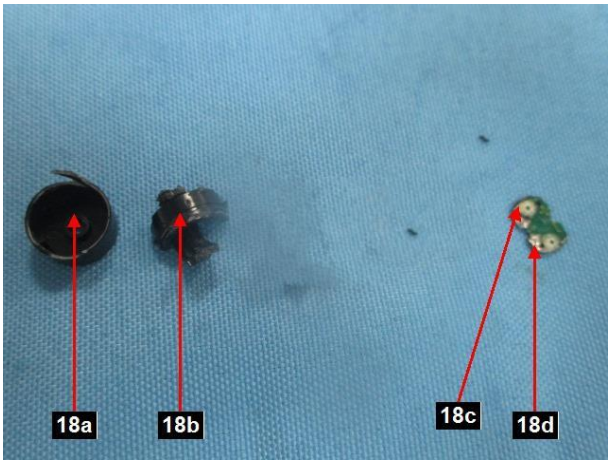

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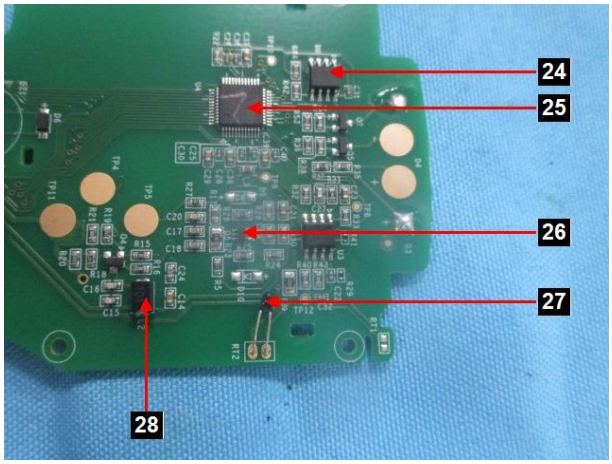

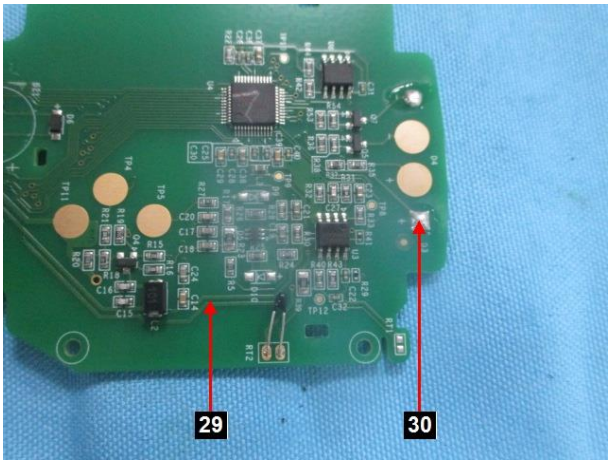

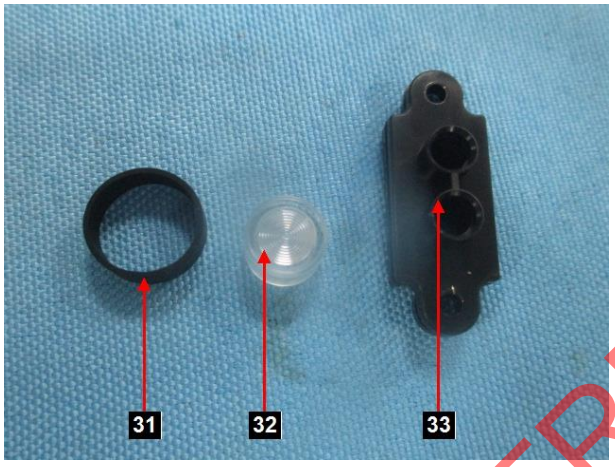

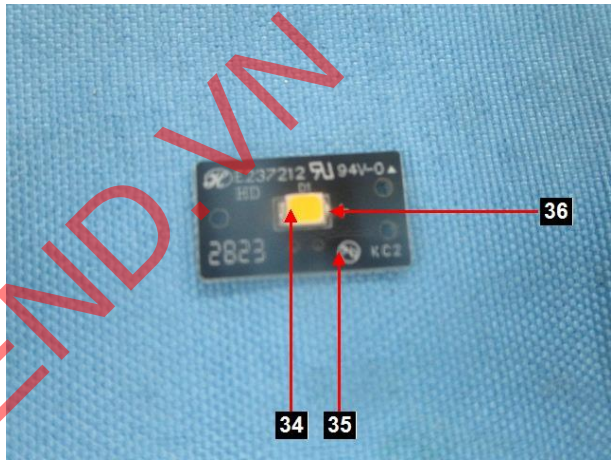

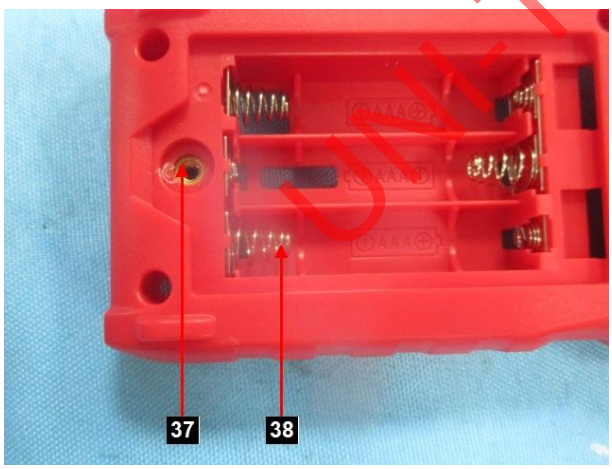

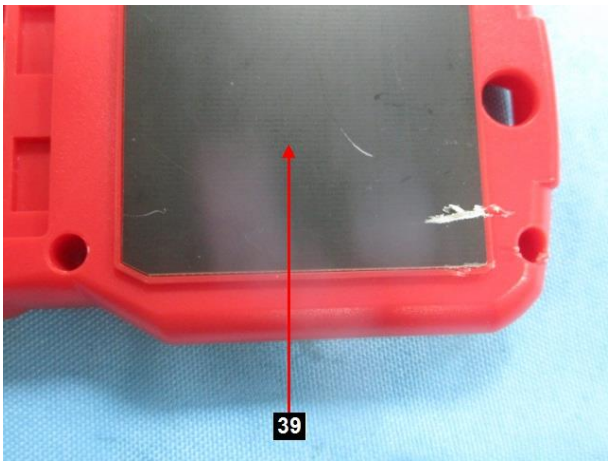

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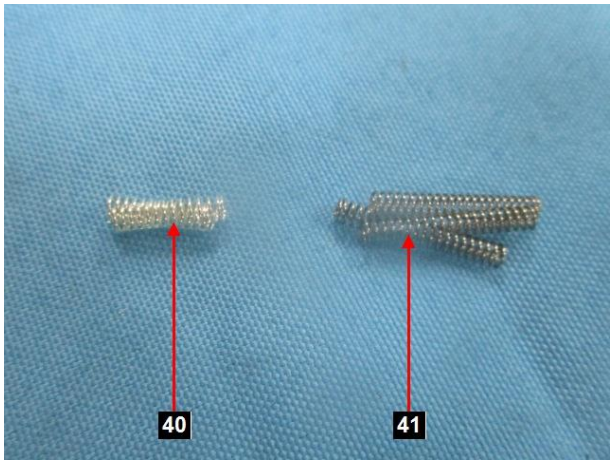

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End of report

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