



TEST REPORT

REPORT No.: DTI2026EE180805

Date: 2026-08-11

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Applicant Company Name: Wenzhou Zhengyuan Electronic Co., Ltd.

Applicant Company Address: Room 401, 6 building, NO.1 Hongjin Road, Lucheng District, Wenzhou City, Zhejiang Province (Lucheng equipment manufacturing Industrial Park)

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Name : Voltage tester
Model No. : 1805D
Additional Model : 1880/1882/1883/1885/1811A/1811B/1812/1818/1822/1825/1888/1800/1801/1802/
1803/1805/1805A/1805B/1805C/1806/1807/1808/1809/1810/1899/6877-18/555105/
555205/5551055/5552055;HW304/HW305/HW306/HW307/HW308/HW309/HW310/
HW313/HW315/HW65/HW65A/HW65B/HW80/HW802/EW999/EW888/EW777/
EW666/EW123/EW567/EW789
Sample Receiving Date : August 05, 2026
Testing Period : From August 05, 2026 to August 11, 2026
Results : Please refer to next page(s).

Summary of Test Results:

TEST REQUEST

CONCLUSION

A EU RoHS Directive 2011/65/EU and its amendment directives 2015/863/EU (**RoHS**)

Pass

Shenzhen Deesev Testing International Corporation

Approved by: Tommy Jiang
Tommy Jiang / Lab Manager

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Results:

1、EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Test method: With reference to IEC 62321-3-1:2026[^], Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
1	Transparent Plastic Case	BL	BL	BL	BL	BL
2	Red Plastic Case	BL	BL	BL	BL	BL
3	Silver Metal Spring	BL	BL	BL	BL	N/A
4	Silver Metal Needle	BL	BL	BL	BL	N/A
5	Silver Metal Cover	BL	BL	BL	BL	N/A
6	LED	BL	BL	BL	BL	BL
7	Silvery Metal Pin	BL	BL	BL	BL	N/A

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Remark:

- (1) Results were obtained by XRF for primary screening, 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 below warning value according to IEC 62321-3-1:2026[^].

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 Limit
X = Inconclusive
N/A = Not Applicable

- (2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

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(3) The maximum permissible limit is quoted from the document 2011/65/EU and its amendment directives 2015/863/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 diphenyl ethers (PBDEs)	≤1000
Bis(2-ethylhexyl) phthalate (DEHP)	≤1000
Benzyl butyl phthalate (BBP)	≤1000
Dibutyl phthalate (DBP)	≤1000
Diisobutyl phthalate (DIBP)	≤1000

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2、The Test Results of Chemical Method:

Test method:

Lead, Cadmium, Mercury Content:

With reference to IEC 62321-5:2013 and IEC 62321-4:2013+AMD1:2017, by acid digestion and analysis was performed by Inductively Coupled Plasma- Optical Emission Spectrophotometer (ICP-OES)

Hexavalent Chromium Content (For metal material):

With reference to IEC 62321-7-1:2015, by boiling-water-extraction and analysis was performed by UV-visible spectrophotometer (UV-Vis)

Hexavalent Chromium Content (For non-metal material):

With reference to IEC 62321-7-2:2017, by alkaline digestion and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic/mass spectrometer (GC-MS)

DEHP, BBP, DBP & DIBP content:

With reference to IEC 62321-8:2017 by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

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1) The test results of DEHP, BBP, DBP & DIBP

Item	Unit	MDL	Results			Limit
			1	2	6	
Bis(2-ethylhexyl) phthalate (DEHP)	mg/kg	30	ND	ND	ND	≤1000
Benzyl butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	≤1000
Dibutyl phthalate (DBP)	mg/kg	30	ND	ND	ND	≤1000
Diisobutyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	≤1000
Conclusion	/	/	Pass	Pass	Pass	/

Note:

- ND = Not Detected
- 0.1%=1000mg/kg
- mg/kg = ppm
- MDL = Method Detection Limit
- Decision rule: According to DTI-CX-39:Decision rule for conformity of the test results.
- Flow chart appendix is included.
- Photo appendix is included.
- ^=The method were not accredited by CNAS.

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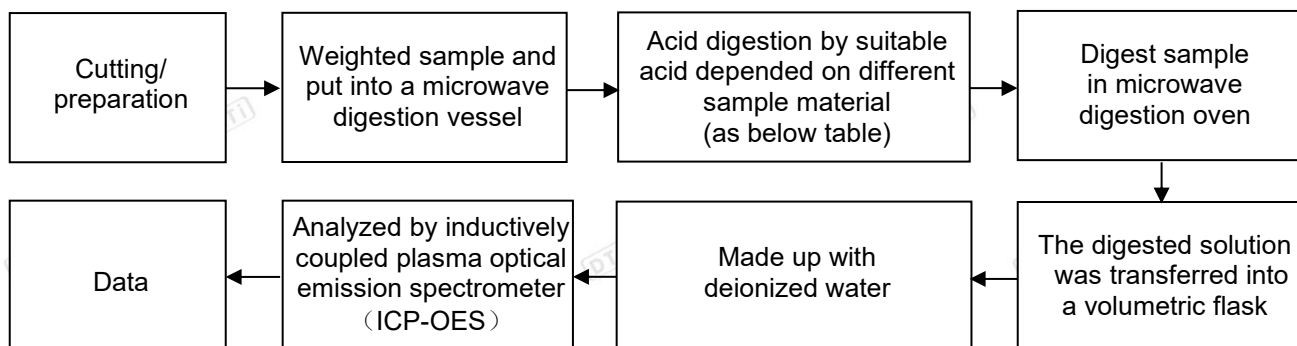
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Appendix I

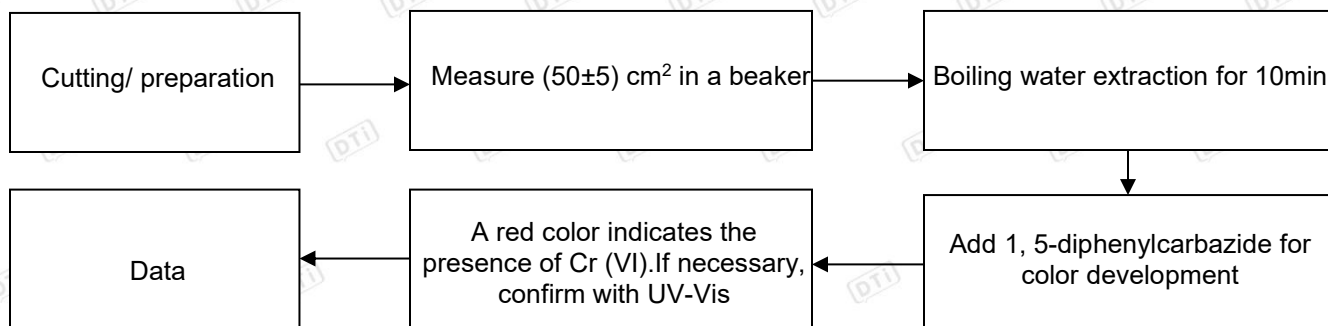
Test Flow chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.

1. Test Flowchart for Cd / Pb /Hg content



2. Test Flowchart for Cr⁶⁺ content (Metal material)



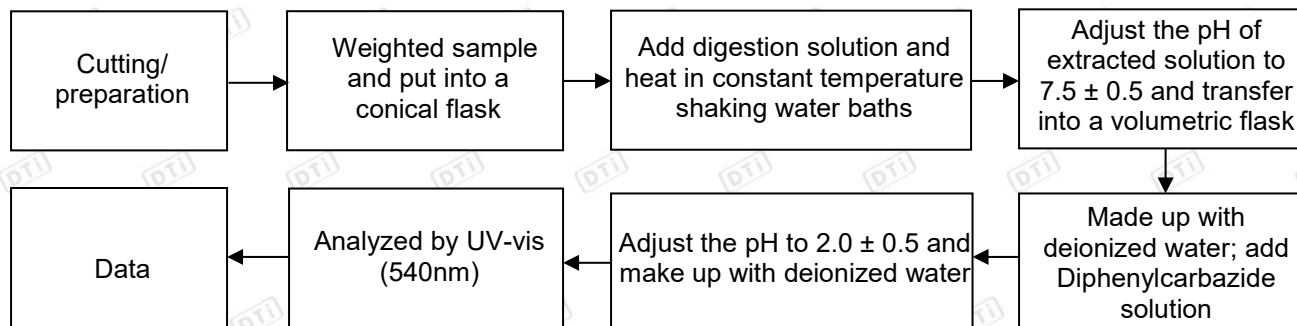
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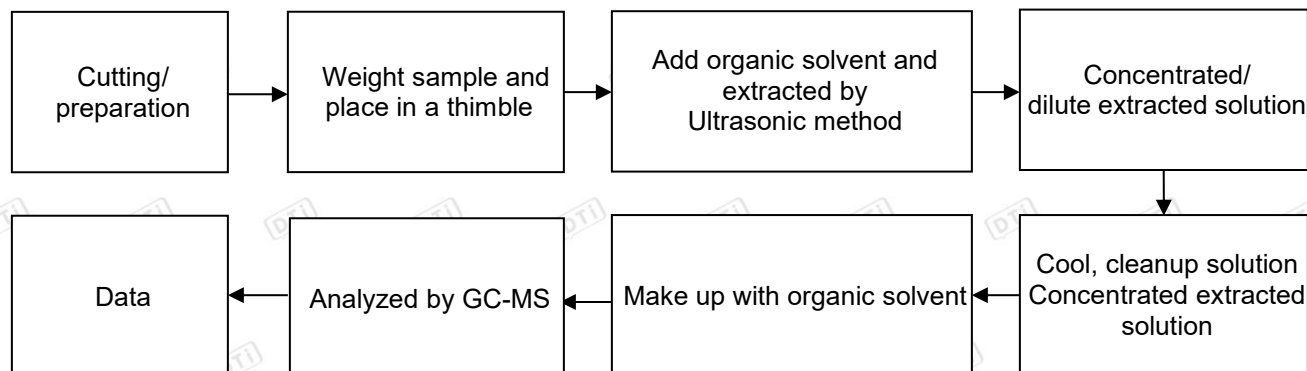
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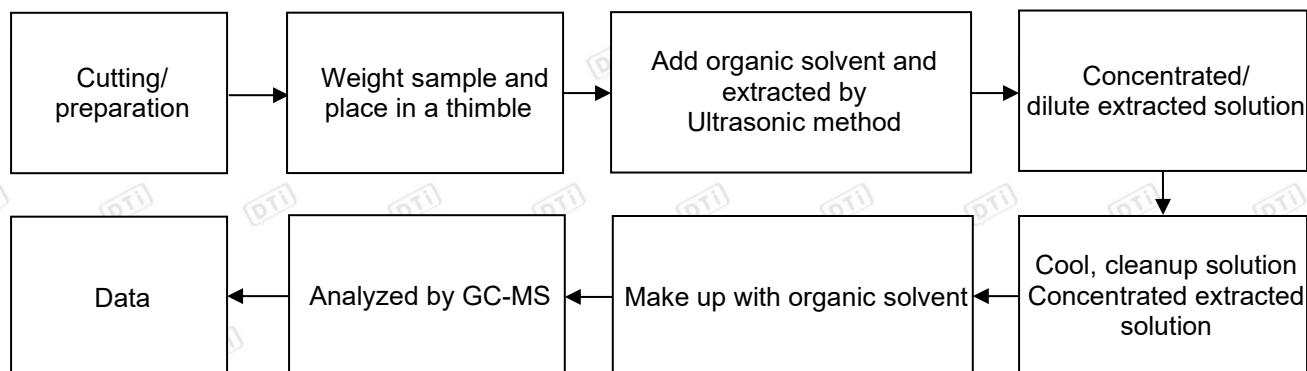
3. Test Flowchart for Cr⁶⁺ content (Non-metal material)



4. Test Flowchart for PBBs & PBDEs content



5. Test Flowchart for DEHP, BBP, DBP & DIBP content



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Table:

Sample material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl

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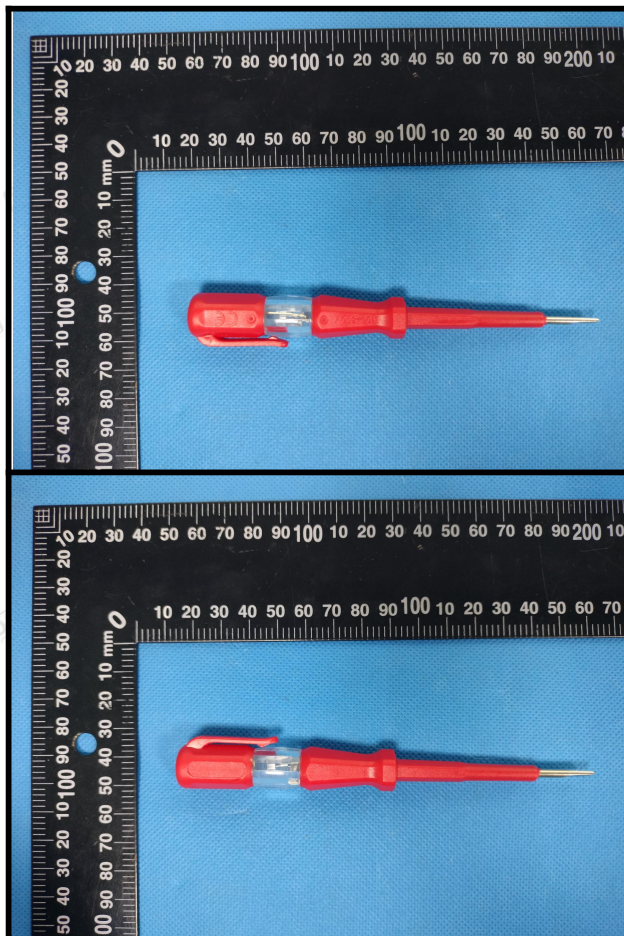
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Appendix II

Photograph of Sample



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Additional photos



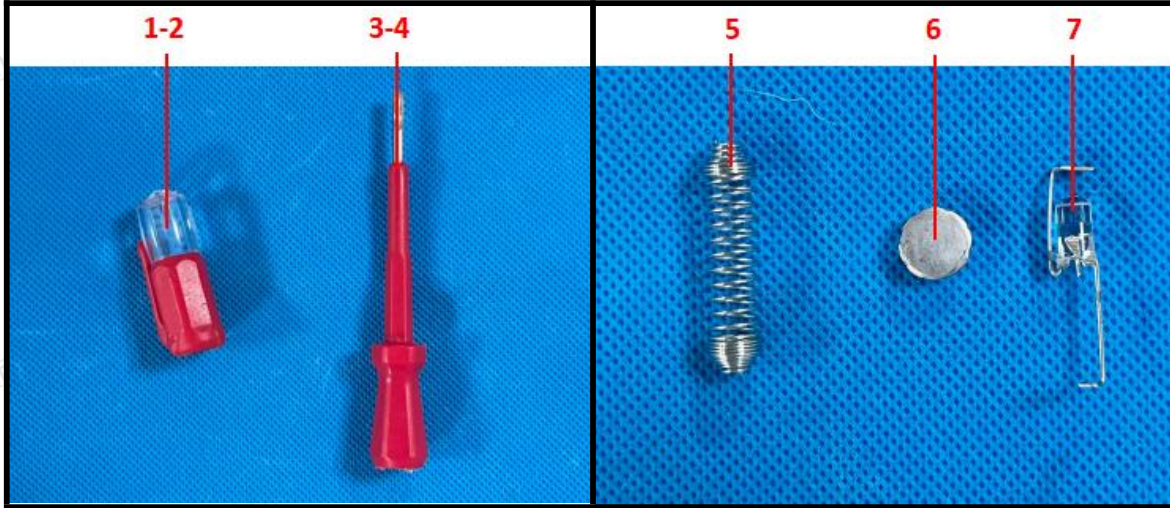
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*** End of Report ***

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