



# TEST REPORT

REPORT No.: DTI20247000-1

Date: 2024-12-06

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Applicant Company Name: Hunan Xiezhen Electronics Co.,Ltd.

Applicant Company Address: Block A & B, Building 11, Innovation Park, Linyi Road, Bailutang Town, Suxian District,423038 Chenzhou, Hunan, P.R. China

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

Sample Name : LED driver

Model No. : ID LCCB 40/230/150-1050 DT8 NFC FV1  
ID CCCB 20/230/150-500 DT8 NFC FV1  
XZ-SNCseries , XZ-SQseries, XZ-SG series, XZ-SND series, XZ-SCseries, XZ-SD series,XZ-SNE series, XZ-SF series, XZ-SEA series, XZ-SH series, XZ-SV series, XZ-SE series,XZ-SA series, XZ-SNA series, XZ-STseries, XZ-SNB series, XZ-SZ series, XZ-SR series,XZ-PA series, XZ-PH series, XZ-PF series, XZ-PB series, XZ-PEseries, PWC series, XZ-DK series, XZ-DB series, XZ-DN series, CSP series, XZ-CY series, XZ-CH series, XZ-QA series, XZ-QF series, XZ-QS series, XZ-QG series, XZ-QB series, XZ-QC series, XZ-QE series, XZ-QK series,XZ-QR series, XZ-QL series, XZ-LD series, XZ-LK series, ID series, XZ-KT series, RD series,XZ-ZS series, XZ-TMTD series, XZ-CMTD series, XZ-PK series, XZ-PI series, XZ-HA series,XZ-QD series,

Series models : XZ-CV series, XZ-SK series, XZ-GN series, XZ-QH series, XZ-SY series, XZ-SN series, XZ-TR series, T22P4-WC series, T22P5-WC series, T22P3-WC series, T22PD-WC series, T22P6-WC series, T22P8-WC series, T22P9-WC series, T22PF-WC series,T22PA-WC series, T22PB-WC series, T22PF series, XZ-ME series, XZ-QY series, XZ-QM series,XZ-QN series, XZ-LT series, XZ-PX series, XZ-QI series, XZ-DF series, XZ-SC series,XZ-SG series, T22P7 series, XZ-DC series, CU series, XZ-LH series, IR series, IC series XNA series XZ-SL series XZ-YL series XZ-PD series, XZ-FLASH series, XZ-TRACK series, DALI-2 Address Backup Device, DALI-2 Address Backup Pro Device, External antenna casing, XZ-DALI series

Manufacturer : Hunan Xiezhen Electronics Co.,Ltd.

Manufacturer Address : Block A & B, Building 11, Innovation Park, Linyi Road, Bailutang Town, Suxian District,423038 Chenzhou, Hunan, P.R. China

Sample Receiving Date : November 29, 2024

Testing Period : From November 29, 2024 to December 05, 2024

Results : Please refer to next page(s).

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Shenzhen Deesev Testing International Corp

Approved by: Tommy Jiang  
lab manager

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Summary of Test Results:

## TEST REQUEST

A EU RoHS Directive 2011/65/EU and its amendment directives 2015/863/EU & EU 2017/2102(**RoHS**)

## CONCLUSION

**Pass**

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Results:

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

Test method: With reference to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
1	White Coating	BL	BL	BL	X	BL
2	Metal Case Substrate	BL	BL	BL	BL	N/A
3	Translucent Plastic Sheet	BL	BL	BL	BL	BL
4	Silvery Metal Base	BL	BL	BL	BL	N/A
5	PCB	BL	BL	BL	BL	X
6	Solder Point	BL	BL	BL	BL	N/A
7	Patch Diode	X	BL	BL	BL	BL
8	Triode	X	BL	BL	BL	BL
9	Black Ceramic Body Chip	BL	BL	BL	BL	BL
10	Patch Resistor	BL	BL	BL	BL	BL
11	Multiplayer Ceramic Chip Capacitors	BL	BL	BL	BL	BL
12	Patch Diode	X	BL	BL	BL	BL
13	Triode	BL	BL	BL	BL	BL
14	Optocoupler	BL	BL	BL	BL	BL
15	White Ceramic Components	BL	BL	BL	BL	BL
16	Patch Fuse	BL	BL	BL	BL	BL
17	Grey Plastic Case	BL	BL	BL	BL	BL
18	Silvery Metal Connector	BL	BL	BL	BL	N/A
19	Blue Plastic Case	BL	BL	BL	BL	BL
20	PCB	BL	BL	BL	BL	X

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
21	Toroid Inductor	BL	BL	BL	BL	BL
22	Coppery Metal Coil	BL	BL	BL	BL	N/A
23	Black Plastic Base	BL	BL	BL	BL	BL
24	Silvery Metal Pin	BL	BL	BL	BL	N/A
25	Black Heat Shrink Tube Sleeve	BL	BL	BL	BL	BL
26	Toroid Inductor	BL	BL	BL	BL	BL
27	Coppery Metal Coil	BL	BL	BL	BL	N/A
28	Black Viscose	BL	BL	BL	BL	BL
29	Electrolytic Capacitor Outer Layer Plastic Leather	BL	BL	BL	BL	BL
30	Electrolytic Capacitor Silvery Metal Case	BL	BL	BL	BL	N/A
31	Electrolytic Capacitor Internal Sticker	BL	BL	BL	BL	BL
32	Silvery Metal Pin	BL	BL	BL	BL	N/A
33	Black Heat Shrink Tube Sleeve	BL	BL	BL	BL	BL
34	Toroid Inductor	BL	BL	BL	BL	BL
35	Coppery Metal Coil	BL	BL	BL	BL	N/A
36	Yellow Plastic Sticker	BL	BL	BL	BL	BL
37	Black Square Magnetic Ring	BL	BL	BL	BL	BL
38	Transformer Ceramic Frame	BL	BL	BL	BL	BL
39	Transformer Copper Winding	BL	BL	BL	BL	N/A
40	Transparent Plastic Sleeve	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
41	Silvery Metal Pin	BL	BL	BL	BL	N/A
42	Yellow Plastic Sticker	BL	BL	BL	BL	BL
43	Black Square Magnetic Ring	BL	BL	BL	BL	BL
44	Transformer Ceramic Frame	BL	BL	BL	BL	BL
45	Transformer Copper Winding	BL	BL	BL	BL	N/A
46	CBB Capacitor	BL	BL	BL	BL	BL
47	Blue Ceramic Capacitors	BL	BL	BL	BL	BL
48	Safety Gauge Capacitance	BL	BL	BL	BL	X
49	Reddish Brown Shell	BL	BL	BL	BL	BL
50	Inlay Black Plastic Block	BL	BL	BL	BL	BL
51	Silver Metal Pin	BL	BL	BL	BL	N/A
52	Silver Metal Fuse	BL	BL	BL	BL	N/A
53	Blue Plastic Cover	BL	BL	BL	BL	BL
54	White Plastic Cover	BL	BL	BL	BL	BL
55	Silvery Metal Screw	BL	BL	BL	BL	N/A
56	Blue Plastic Cover	BL	BL	BL	BL	BL
57	White Plastic	BL	BL	BL	BL	BL
58	Red Plastic Wire Outer Skin	BL	BL	BL	BL	BL
59	Brown Plastic Wire Outer Skin	BL	BL	BL	BL	BL
60	Blue Plastic Wire Outer Skin	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
61	Purple Plastic Wire Outer Skin	BL	BL	BL	BL	BL
62	Wire Internal Metal Wire	BL	BL	BL	BL	N/A
63	White Plastic Base	BL	BL	BL	BL	BL
64	White Plastic Case	BL	BL	BL	BL	BL
65	Silvery Metal Connector	BL	BL	BL	BL	N/A
66	White Plastic Case	BL	BL	BL	BL	BL
67	PCB	BL	BL	BL	BL	X
68	Solder Point	BL	BL	BL	BL	N/A
69	Patch Capacitor	BL	BL	BL	BL	BL
70	Black Plastic Case	BL	BL	BL	BL	BL
71	Red Plastic Case	BL	BL	BL	BL	BL
72	Silvery Metal Connector	BL	BL	BL	BL	N/A
73	Fibreboard	BL	BL	BL	BL	X
74	Patch Coil Inductor	BL	BL	BL	BL	BL
75	Copper Winding	BL	BL	BL	BL	N/A
76	Yellow Plastic Sticker	BL	BL	BL	BL	BL
77	Black Square Magnetic Ring	BL	BL	BL	BL	BL
78	Transformer Ceramic Frame	BL	BL	BL	BL	BL
79	Transformer Copper Winding	BL	BL	BL	BL	N/A
80	Transparent Plastic Sleeve	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
81	Black Plastic Sleeve	BL	BL	BL	BL	BL
82	PCB	BL	BL	BL	BL	X
83	Solder Point	BL	BL	BL	BL	N/A
84	Grey Plastic Case	BL	BL	BL	BL	BL
85	Grey Plastic Button	BL	BL	BL	BL	BL
86	Silvery Metal Connector	BL	BL	BL	BL	N/A
87	White Plastic Case	BL	BL	BL	BL	BL
88	Silvery Metal Needle	BL	BL	BL	BL	N/A
89	Brown Plastic Wire Outer Skin	BL	BL	BL	BL	BL
90	Blue Plastic Wire Outer Skin	BL	BL	BL	BL	BL
91	Purple Plastic Wire Outer Skin	BL	BL	BL	BL	BL
92	Wire Internal Metal Wire	BL	BL	BL	BL	N/A
93	White Plastic Plug-In	BL	BL	BL	BL	BL
94	Silvery Metal Terminal	BL	BL	BL	BL	N/A
95	Brown Plastic Wire Outer Skin	BL	BL	BL	BL	BL
96	Pink Plastic Wire Outer Skin	BL	BL	BL	BL	BL
97	Purple Plastic Wire Outer Skin	BL	BL	BL	BL	BL
98	Pink Plastic Wire Outer Skin	BL	BL	BL	BL	BL
99	Purple Plastic Wire Outer Skin	BL	BL	BL	BL	BL
100	Black Plastic Wire Outer Skin	BL	BL	BL	BL	BL
101	White Plastic Wire Outer Skin	BL	BL	BL	BL	BL
102	Grey Plastic Wire Outer Skin	BL	BL	BL	BL	BL
103	Black Plastic Wire Outer Skin	BL	BL	BL	BL	BL
104	White Plastic Wire Outer Skin	BL	BL	BL	BL	BL
105	Wire Internal Metal Wire	BL	BL	BL	BL	N/A
106	Grey Silicone Sheet	BL	BL	BL	BL	BL

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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 62321-3-1:2013.

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
Polybrominate ddiphenylethers (PBDEs)	≤1000
Di-2-ethylhexyl phthalate (DEHP)	≤1000
Benzyl-n-butyl phthalate (BBP)	≤1000
Di-n-butyl phthalate (DBP)	≤1000
Di-iso-butyl 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 Cr (VI)

Item	Unit	MDL	Results			Limit
			1			
Hexavalent Chromium (Cr (VI)) (Non-metal material)	mg/kg	8	ND			≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>			/

Note:

- ND = Not Detected
- MDL = Method Detection Limit
- mg/kg = ppm

2) The test results of Pb

Item	Unit	MDL	Results			Limit
			7	8	12	
Lead(Pb)	mg/kg	2	10615*	8704*	8436*	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Note:

- MDL = Method Detection Limit
- mg/kg = ppm
- \*=According to the declaration from the client, Lead (Pb) in the sample is exempted by EU RoHS Directive 2011/65/EU based on 7(c)-I:Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors.

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3) The test results of PBBs & PBDEs

Item	Unit	MDL	Results					Limit
			5	20	48	67	73	
<b>Polybrominated Biphenyls (PBBs)</b>								
Monobromobiphenyl	mg/kg	5	ND	ND	ND	ND	ND	/
Dibromobiphenyl	mg/kg	5	ND	ND	ND	ND	ND	/
Tribromobiphenyl	mg/kg	5	ND	ND	ND	ND	ND	/
Tetrabromobiphenyl	mg/kg	5	ND	ND	ND	ND	ND	/
Pentabromobiphenyl	mg/kg	5	ND	ND	ND	ND	ND	/
Hexabromobiphenyl	mg/kg	5	ND	ND	ND	ND	ND	/
Heptabromobiphenyl	mg/kg	5	ND	ND	ND	ND	ND	/
Octabromobiphenyl	mg/kg	5	ND	ND	ND	ND	ND	/
Nonabromodiphenyl	mg/kg	5	ND	ND	ND	ND	ND	/
Decabromodiphenyl	mg/kg	5	ND	ND	ND	ND	ND	/
Total content	mg/kg	/	ND	ND	ND	ND	ND	≤1000
<b>Polybrominated Diphenylethers (PBDEs)(Mon-Deca)</b>								
Monobromodiphenyl ether	mg/kg	5	ND	ND	ND	ND	ND	/
Dibromodiphenyl ether	mg/kg	5	ND	ND	ND	ND	ND	/
Tribromodiphenyl ether	mg/kg	5	ND	ND	ND	ND	ND	/
Tetrabromodiphenyl ether	mg/kg	5	ND	ND	ND	ND	ND	/
Pentabromodiphenyl ether	mg/kg	5	ND	ND	ND	ND	ND	/
Hexabromodiphenyl ether	mg/kg	5	ND	ND	ND	ND	ND	/
Heptabromodiphenyl ether	mg/kg	5	ND	ND	ND	ND	ND	/
Octabromodiphenyl ether	mg/kg	5	ND	ND	ND	ND	ND	/
Nonabromodiphenyl ether	mg/kg	5	ND	ND	ND	ND	ND	/
Decabromodiphenyl ether	mg/kg	5	ND	ND	ND	ND	ND	/
Total content	mg/kg	/	ND	ND	ND	ND	ND	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

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Address: 9th Flr., Building B, Feiyang Science & Technology Park, Longchang Rd.No.8, Bao'an, Shenzhen, Guangdong, China

Tel: +86-755-32936716 E-mail: DTI@deesev.cn URL: www.deesev.com





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Item	Unit	MDL	Results	Limit
			82	
<b>Polybrominated Biphenyls (PBBs)</b>				
Monobromobiphenyl	mg/kg	5	ND	/
Dibromobiphenyl	mg/kg	5	ND	/
Tribromobiphenyl	mg/kg	5	ND	/
Tetrabromobiphenyl	mg/kg	5	ND	/
Pentabromobiphenyl	mg/kg	5	ND	/
Hexabromobiphenyl	mg/kg	5	ND	/
Heptabromobiphenyl	mg/kg	5	ND	/
Octabromobiphenyl	mg/kg	5	ND	/
Nonabromodiphenyl	mg/kg	5	ND	/
Decabromodiphenyl	mg/kg	5	ND	/
Total content	mg/kg	/	ND	≤1000
<b>Polybrominated Diphenylethers (PBDEs)(Mon-Deca)</b>				
Monobromodiphenyl ether	mg/kg	5	ND	/
Dibromodiphenyl ether	mg/kg	5	ND	/
Tribromodiphenyl ether	mg/kg	5	ND	/
Tetrabromodiphenyl ether	mg/kg	5	ND	/
Pentabromodiphenyl ether	mg/kg	5	ND	/
Hexabromodiphenyl ether	mg/kg	5	ND	/
Heptabromodiphenyl ether	mg/kg	5	ND	/
Octabromodiphenyl ether	mg/kg	5	ND	/
Nonabromodiphenyl ether	mg/kg	5	ND	/
Decabromodiphenyl ether	mg/kg	5	ND	/
Total content	mg/kg	/	ND	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	/

Note:

- ND = Not Detected
- mg/kg = ppm
- MDL = Method Detection Limit

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

Item	Unit	MDL	Results					Limit
			1	3	5	7	8	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			9	10	11	12	13	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			14	15	16	17	19	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

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Item	Unit	MDL	Results					Limit
			20	21	23	25	26	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			28	29	31	33	34	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			36	37	38	40	42	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

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Item	Unit	MDL	Results					Limit
			43	44	46	47	48	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			49	50	53	54	56	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			57	58	59	60	61	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

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Item	Unit	MDL	Results					Limit
			63	64	66	67	69	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			70	71	73	74	76	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			77	78	80	81	82	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

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Item	Unit	MDL	Results					Limit
			84	85	87	89	90	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			91	93	95	96	97	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			98	99	100	101	102	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

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Item	Unit	MDL	Results			Limit
			103	104	106	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

**Note:**

- ND = Not Detected
- 0.1%=1000mg/kg
- mg/kg = ppm
- MDL = Method Detection Limit
- Decision rule: According to DTI-CX-39-2022 《Decision rule for conformity of the test results》
- Flow chart appendix is included.
- Photo appendix is included.

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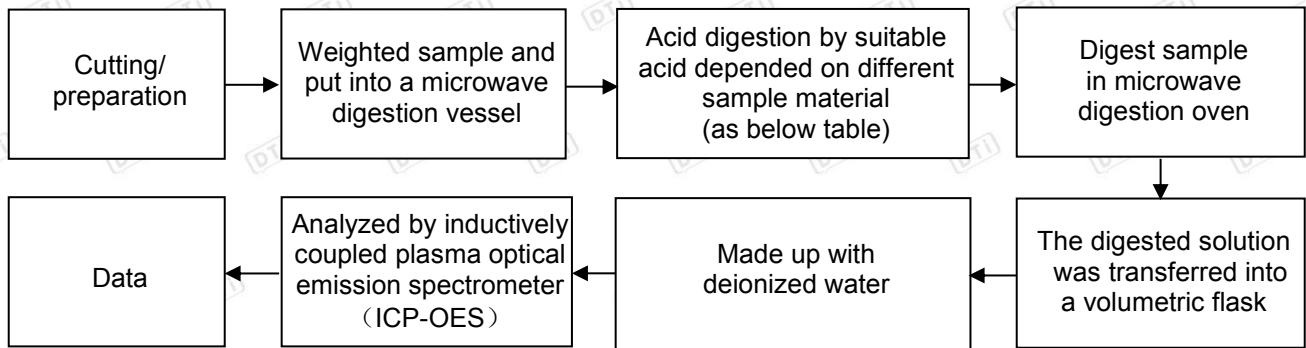
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## Appendix I

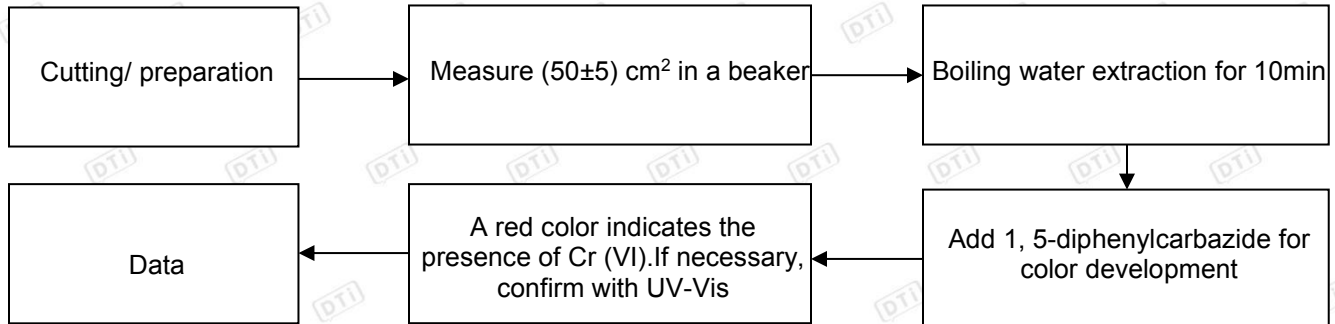
### Test Flow chart

#### 1. Test Flowchart for Cd / Pb /Hg content

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



#### 2. Test Flowchart for Cr<sup>6+</sup> content (Metal material)



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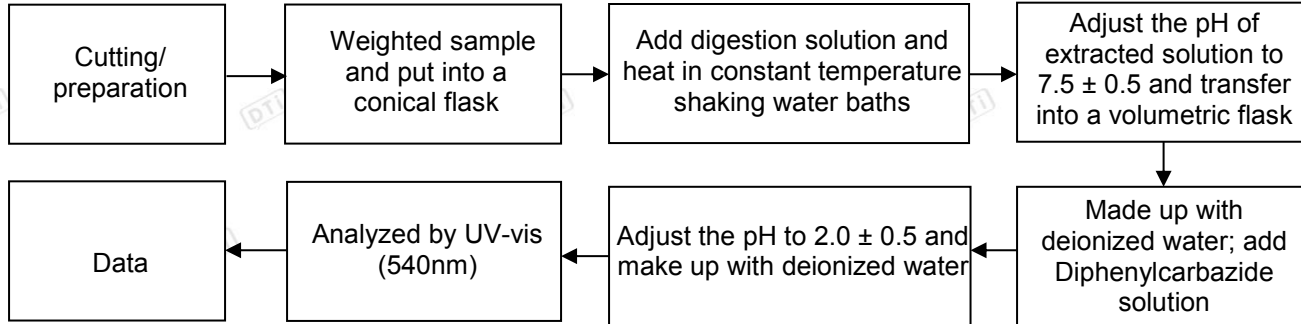
# TEST REPORT

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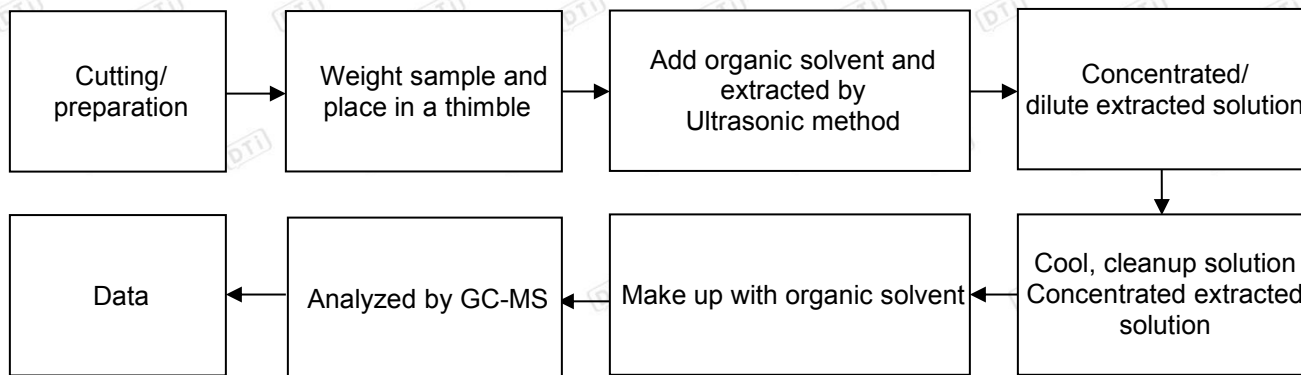
Date: 2024-12-06

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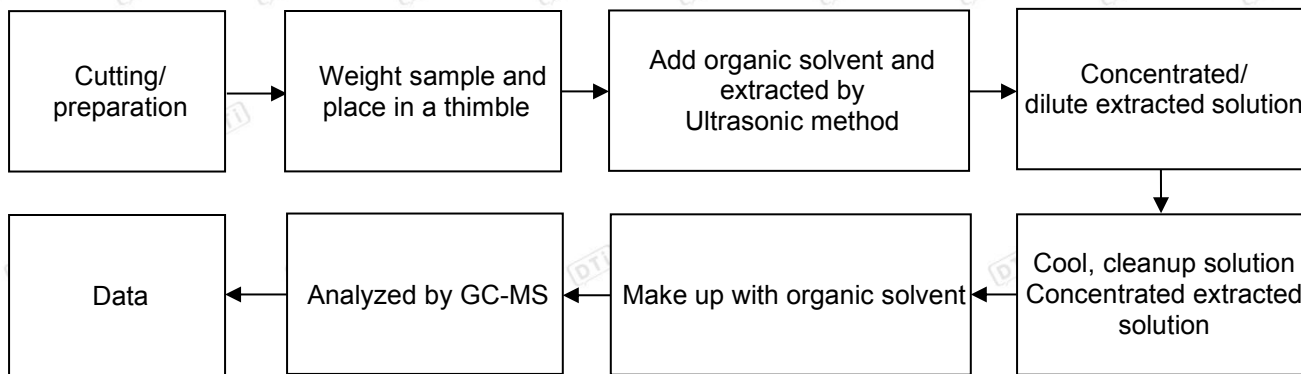
3. Test Flowchart for Cr<sup>6+</sup> content (Non-metal material)



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 <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
Glass	HNO <sub>3</sub> /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO <sub>3</sub>
Plastic	H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
Others	Any acid to total digestion

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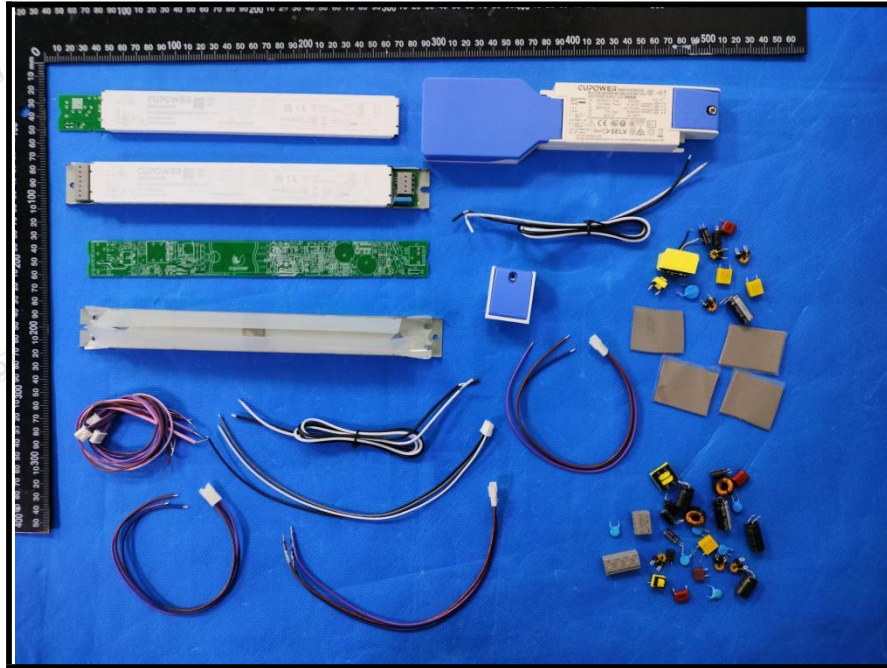
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## Appendix II

Photograph of Sample



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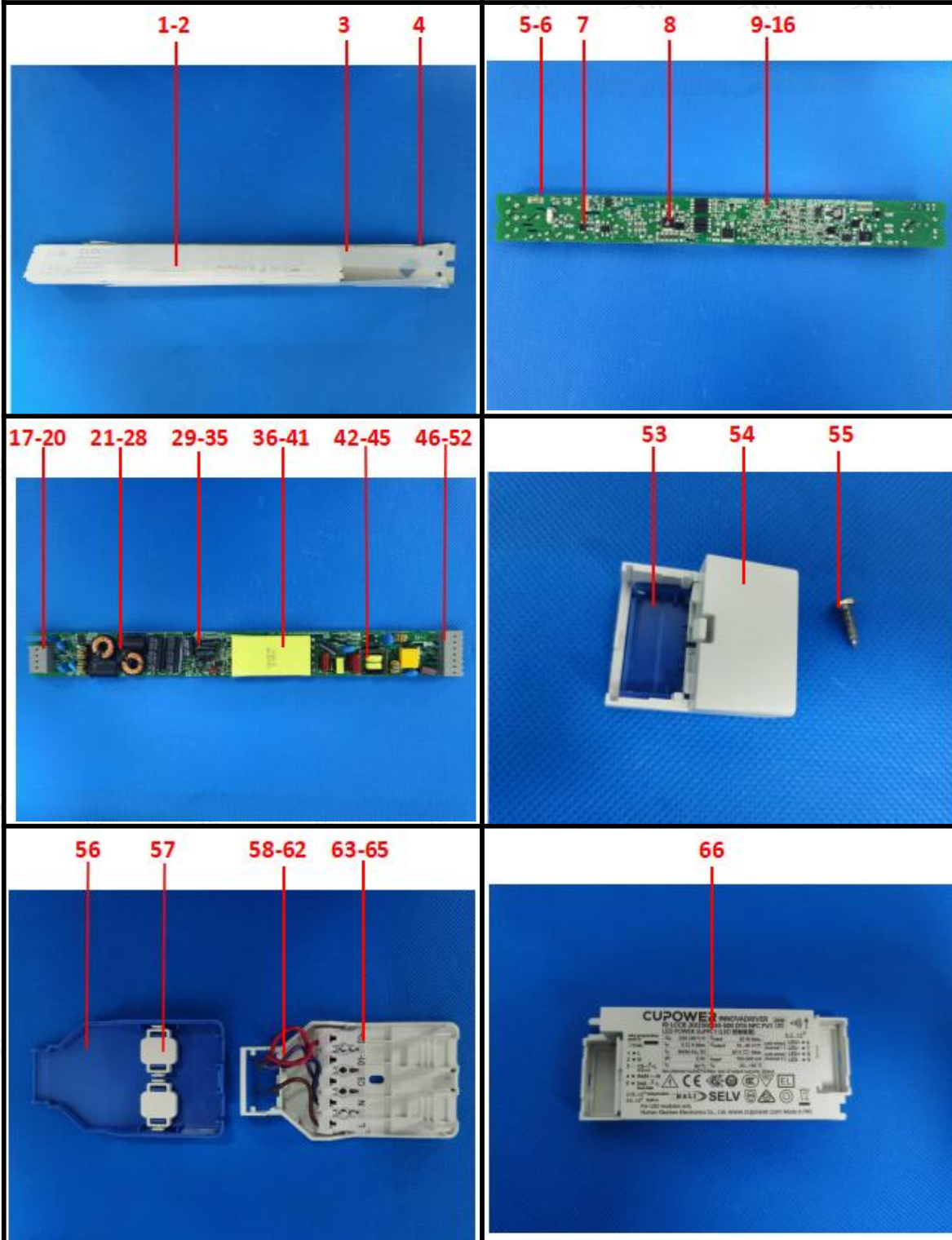


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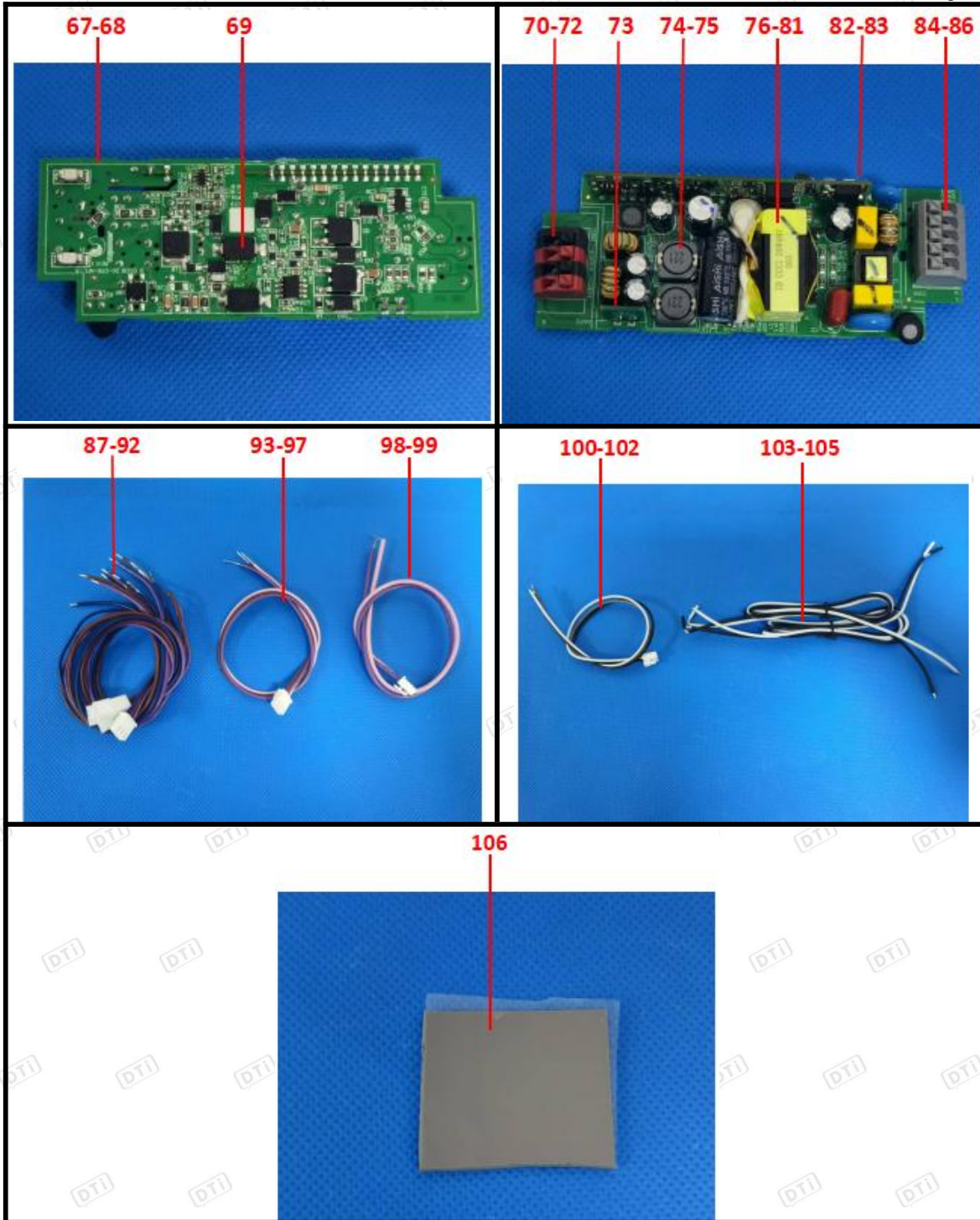


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