



# TEST REPORT

REPORT No.: DTI20232774

Date: 2023-12-26

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Applicant Company Name: Shenzhen Lvyou Energy Technology Co., Ltd

Applicant Company Address: Dawangshan 2nd Industrial Zone, Shajing, Baoan District, Shenzhen, Guangdong, China

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

Sample Name : PV Microinverter  
 Model No. : ES-800  
 Trademark : EFFiSolax  
 Manufacturer : Shenzhen Lvyou Energy Technology Co., Ltd  
 Manufacturer Address : Dawangshan 2nd Industrial Zone, Shajing, Baoan District, Shenzhen, Guangdong, China  
 Factory : Jing Lin Communication Technology Co., Ltd  
 Factory Address : No. 8, Pingxiang village Shengping road, Shuibian management district, Hengli town, Dongguan city, Guangdong province  
 Sample Receiving Date : October 18, 2023  
 Testing Period : From October 18, 2023 to October 24, 2023  
 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 Corp

Approved by: 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 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
1	Black Coating	BL	BL	BL	BL	BL
2	Silver Metal Case	BL	BL	BL	BL	N/A
3	Grey Viscose	BL	BL	BL	BL	BL
4	Silver Metal Cover	BL	BL	BL	BL	N/A
5	Grey Silicone	BL	BL	BL	BL	BL
6	PCB	BL	BL	BL	BL	X
7	Solder Point	BL	BL	BL	BL	N/A
8	Blue Ceramic Capacitors	BL	BL	BL	BL	BL
9	Silver Metal Pin	BL	BL	BL	BL	N/A
10	Black Ceramic Body Chip	BL	BL	BL	BL	BL
11	Patch Resistor	BL	BL	BL	BL	BL
12	Multiplayer Ceramic Chip Capacitors	BL	BL	BL	BL	BL
13	Patch Diode	X	BL	BL	BL	BL
14	Triode	BL	BL	BL	BL	BL
15	Electrolytic Capacitor Outer Layer Plastic Leather	BL	BL	BL	BL	BL
16	Electrolytic Capacitor Silver Metal Case	BL	BL	BL	BL	N/A
17	Electrolytic Capacitor Internal Sticker	BL	BL	BL	BL	BL
18	Silver Metal Pin	BL	BL	BL	BL	N/A
19	Triode	X	BL	BL	BL	BL
20	Black Square Magnetic Ring	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
21	Yellow Plastic Sticker	BL	BL	BL	BL	BL
22	Transformer Ceramic Frame	BL	BL	BL	BL	BL
23	Transformer Copper Winding	BL	BL	BL	BL	N/A
24	Transparent Plastic Wire Outer Skin	BL	BL	BL	BL	BL
25	Toroid Inductor	BL	BL	BL	BL	BL
26	Copper Winding	BL	BL	BL	BL	N/A
27	Bridge Pile	X	BL	BL	BL	BL
28	Silver Metal Pin	BL	BL	BL	BL	N/A
29	CBB Capacitance	BL	BL	BL	BL	BL
30	Black Plastic Relay Case	BL	BL	BL	BL	X
31	Silver Metal Block	BL	BL	BL	BL	N/A
32	White Plastic Sheet	BL	BL	BL	BL	BL
33	Copper Color Sheet	BL	BL	BL	BL	N/A
34	Silver Metal Shaft	BL	BL	BL	BL	N/A
35	Copper Wire	BL	BL	BL	BL	N/A
36	Translucent Plastic Case	BL	BL	BL	BL	BL
37	Silver Metal Needle	BL	BL	BL	BL	N/A
38	Reddish Brown Shell	BL	BL	BL	BL	BL
39	Inlay Black Plastic Block	BL	BL	BL	BL	BL
40	Silver Metal Pin	BL	BL	BL	BL	N/A

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
41	Silver Metal Fuse	BL	BL	BL	BL	N/A
42	Black Heat Shrink Tube Sleeve of Inductance	BL	BL	BL	BL	BL
43	Internal Copper Wire of Inductance	BL	BL	BL	BL	N/A
44	Internal Black Ceramic Cylinder	BL	BL	BL	BL	BL
45	Silver Metal Pin	BL	BL	BL	BL	N/A
46	Crystal Oscillator	BL	BL	BL	BL	N/A
47	PCB	BL	BL	BL	BL	X
48	Solder Point	BL	BL	BL	BL	N/A
49	PCB	BL	BL	BL	BL	X
50	Solder Point	BL	BL	BL	BL	N/A
51	Black Ceramic Body Chip	BL	BL	BL	BL	BL
52	Patch Resistor	BL	BL	BL	BL	BL
53	Multiplayer Ceramic Chip Capacitors	BL	BL	BL	BL	BL
54	Crystal Oscillator	BL	BL	BL	BL	N/A
55	Gold Metal Socket	BL	BL	BL	BL	N/A
56	White Plastic Base	BL	BL	BL	BL	BL
57	Black Plastic Case	BL	BL	BL	BL	X
58	Gold Metal Terminal	X	BL	BL	BL	N/A
59	Solder Point	BL	BL	BL	BL	N/A
60	Black Heat Shrink Tube Sleeve	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
61	Black Plastic Wire Outer Skin	BL	BL	BL	BL	BL
62	Red Plastic Wire Outer Skin	BL	BL	BL	BL	BL
63	Yellow Plastic Wire Outer Skin	BL	BL	BL	BL	BL
64	Wire Internal Metal Wire	BL	BL	BL	BL	N/A
65	Translucent Plastic Plug-In	BL	BL	BL	BL	BL
66	Silver Metal Terminal	BL	BL	BL	BL	N/A
67	Black Plastic Wire Outer Skin	BL	BL	BL	BL	BL
68	Red Plastic Wire Outer Skin	BL	BL	BL	BL	BL
69	Yellow Plastic Wire Outer Skin	BL	BL	BL	BL	BL
70	Wire Internal Metal Wire	BL	BL	BL	BL	N/A
71	Black Plastic	BL	BL	BL	BL	BL
72	Gold Metal Spring	BL	BL	BL	BL	N/A
73	Solder Point	BL	BL	BL	BL	N/A
74	Silver Metal Case	X	BL	BL	BL	N/A
75	Internal White Plastic	BL	BL	BL	BL	BL
76	Brown Viscose	BL	BL	BL	BL	BL
77	Black Soft Plastic Gasket	BL	BL	BL	BL	BL
78	Transparent Plastic Wire Outer Skin	BL	BL	BL	BL	BL
79	Wire Internal Metal Wire	BL	BL	BL	BL	N/A
80	Gold Metal Terminal	BL	BL	BL	BL	N/A

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
81	Black Plastic Case	BL	BL	BL	BL	BL
82	Red Soft Plastic Gasket	BL	BL	BL	BL	BL
83	White Soft Plastic Gasket	BL	BL	BL	BL	BL
84	Silver Metal Case	BL	BL	BL	BL	N/A
85	Black Plastic Wire Outer Skin	BL	BL	BL	BL	BL
86	Wire Internal Metal Wire	BL	BL	BL	BL	N/A
87	Black Plastic Case	BL	BL	BL	BL	BL
88	White Soft Plastic Gasket	BL	BL	BL	BL	BL
89	Silver Metal Case	BL	BL	BL	BL	N/A
90	Red Plastic Wire Outer Skin	BL	BL	BL	BL	BL
91	Wire Internal Metal Wire	BL	BL	BL	BL	N/A
92	White Plastic Plug-In	BL	BL	BL	BL	BL
93	Silver Metal Terminal	BL	BL	BL	BL	N/A
94	Black Heat Shrink Tube Sleeve	BL	BL	BL	BL	BL
95	White Plastic Wire Outer Skin	BL	BL	BL	BL	BL
96	Wire Internal Metal Wire	BL	BL	BL	BL	N/A
97	LED	BL	BL	BL	BL	BL
98	Black Plastic Knob	BL	BL	BL	BL	X
99	Black Plastic Patch	BL	BL	BL	BL	BL
100	Black Soft Plastic	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
101	Black Plastic Nut	BL	BL	BL	BL	X
102	Grey Soft Plastic	BL	BL	BL	BL	BL
103	Black Soft Plastic Gasket	BL	BL	BL	BL	BL
104	Silver Metal Gasket	BL	BL	BL	BL	N/A
105	White Label Sticker	BL	BL	BL	BL	BL
106	Silver Metal Cover	BL	BL	BL	BL	N/A
107	Black Soft Plastic	BL	BL	BL	BL	BL
108	Silver Metal Screw	BL	BL	BL	X	N/A
109	White Plastic Case	BL	BL	BL	BL	BL
110	Silver Metal Nut	BL	BL	BL	BL	N/A
111	Black Soft Plastic	BL	BL	BL	BL	BL
112	Internal Black Plastic	BL	BL	BL	BL	X
113	Silver Metal Plug	X	BL	BL	BL	N/A
114	Silver Metal Sheet	BL	BL	BL	BL	N/A
115	Black Plastic Skin	BL	BL	BL	BL	BL
116	Green Plastic Wire Outer Skin	BL	BL	BL	BL	BL
117	Blue Plastic Wire Outer Skin	BL	BL	BL	BL	BL
118	Brown Plastic Wire Outer Skin	BL	BL	BL	BL	BL
119	Wire Internal Metal Wire	BL	BL	BL	BL	N/A
120	Black Plastic Case	BL	BL	BL	BL	BL
121	Black Plastic Knob	BL	BL	BL	BL	X
122	Gold Metal Needle	X	BL	BL	BL	N/A
123	Solder Point	BL	BL	BL	BL	N/A
124	Silver Metal Screw	BL	BL	BL	X	N/A
125	Silver Metal Nut	BL	BL	BL	X	N/A
126	Silver Metal Ring	BL	BL	BL	X	N/A
127	Silver Metal Gasket	BL	BL	BL	X	N/A
128	White Label Sticker	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
			108	124	125	126	127	
Hexavalent Chromium (Cr (VI)) (Metal material)	µg/cm <sup>2</sup>	/	Negative	Negative	Negative	Negative	Negative	#
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Note:

- MDL = Method Detection Limit
- Negative= Sample Cr(VI) concentration is less than 0.10 µg/cm<sup>2</sup>  
Positive = Sample Cr(VI) concentration is greater than 0.13 µg/cm<sup>2</sup>
- # =  
Positive indicates the presence of Cr(VI) on the tested areas and the test results are considered to be incompatible with Directive 2011/65/EU (RoHS) requirement.  
Negative indicates the absence of Cr(VI) on the tested areas and the test results are considered to be consistent with Directive 2011/65/EU (RoHS) requirement.

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2) The test results of Pb

Item	Unit	MDL	Results					Limit
			13	19	27	58	74	
Lead(Pb)	mg/kg	2	6418*	5147*	3805*	13082^	9135^	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results		Limit
			113	122	
Lead(Pb)	mg/kg	2	24171^	12704^	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	/

Note:

- N.D. = Not Detected
- 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.
- ^=According to the declaration from the client, Lead (Pb) in the sample is exempted by EU RoHS Directive 2011/65/EU based on 6(c): Copper alloy containing up to 4% (40000mg/kg) lead by weight.

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3) The test results of PBBs & PBDEs

Item	Unit	MDL	Results					Limit
			6	30	47	49	57	
<b>Polybrominated Biphenyls (PBBs)</b>								
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Polybrominated Diphenylethers (PBDEs)(Mon-Deca)</b>								
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	/
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.	≤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
			98	101	112	121	
<b>Polybrominated Biphenyls (PBBs)</b>							
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	/
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	/
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	/
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	/
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	/
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	/
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	/
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	/
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	/
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	/
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Polybrominated Diphenylethers (PBDEs)(Mon-Deca)</b>							
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	/
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	/
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	/
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	/
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	/
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	/
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	/
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	/
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	/
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	/
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Note:

- N.D. = 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	6	8	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			10	11	12	13	14	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			15	17	19	20	21	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤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
			22	24	25	27	29	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			30	32	36	38	39	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			42	44	47	49	51	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤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
			52	53	56	57	60	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			61	62	63	65	67	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			68	69	71	75	76	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤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
			77	78	81	82	83	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			85	87	88	90	92	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			94	95	97	98	99	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤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
			100	101	102	103	105	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			107	109	111	112	115	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Item	Unit	MDL	Results					Limit
			116	117	118	120	121	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤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
			128	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	≤1000
<b>Conclusion</b>	/	/	<b>Pass</b>	/

**Note:**

- N.D. = Not Detected
- 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.
- All data results in this report are from report:DTI20231957.

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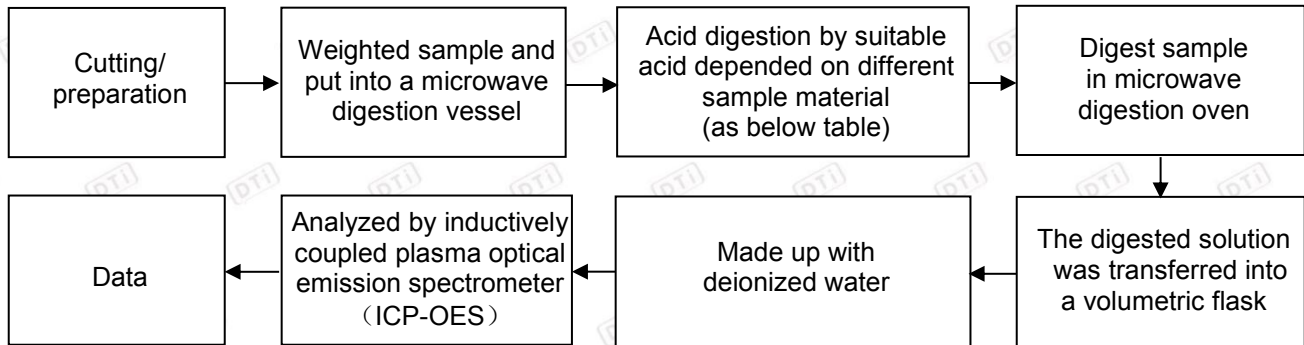
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## Appendix I

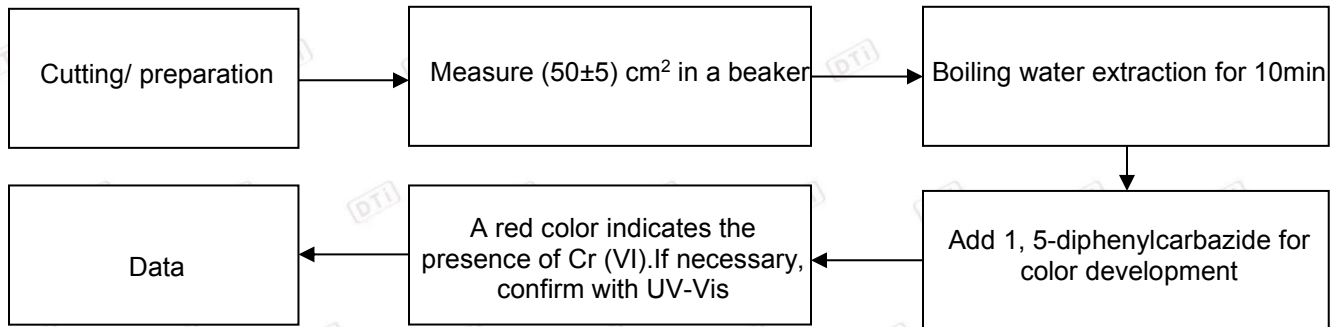
### Test Flow chart

#### 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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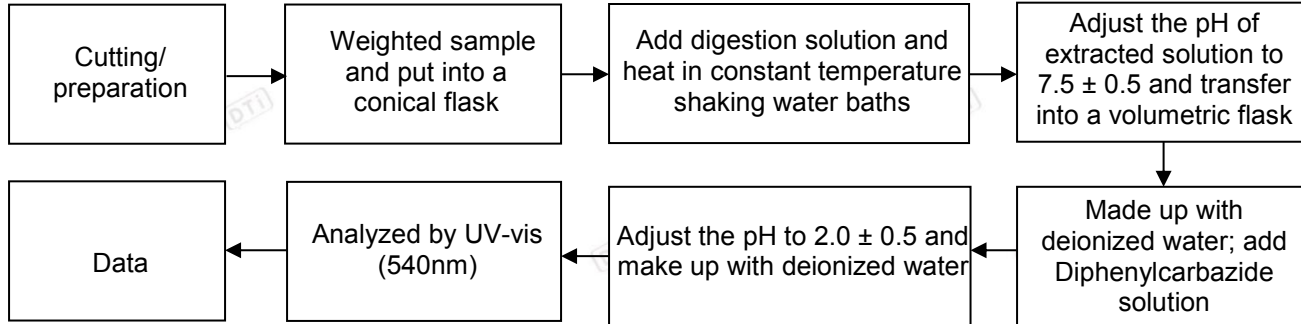
# TEST REPORT

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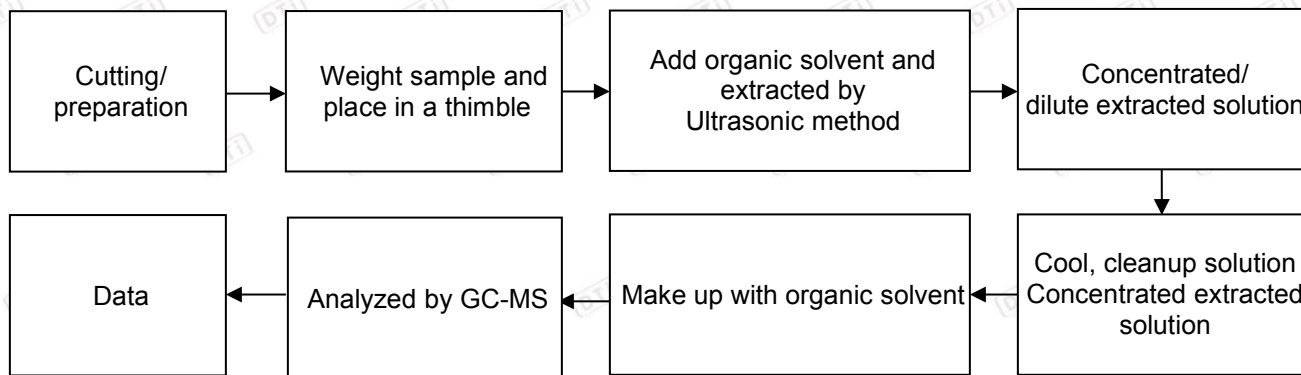
Date: 2023-12-26

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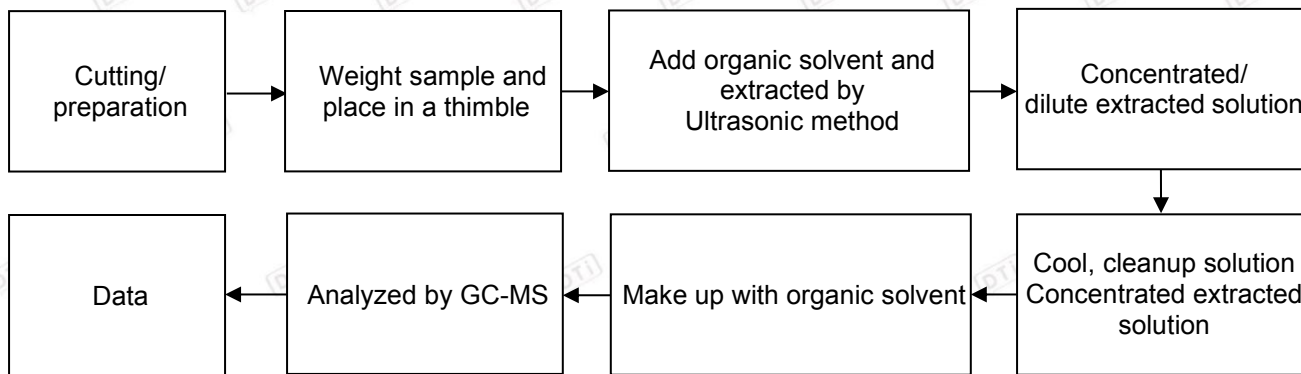
3. Test Flowchart for Cr<sup>6+</sup> content (Non-metal material)



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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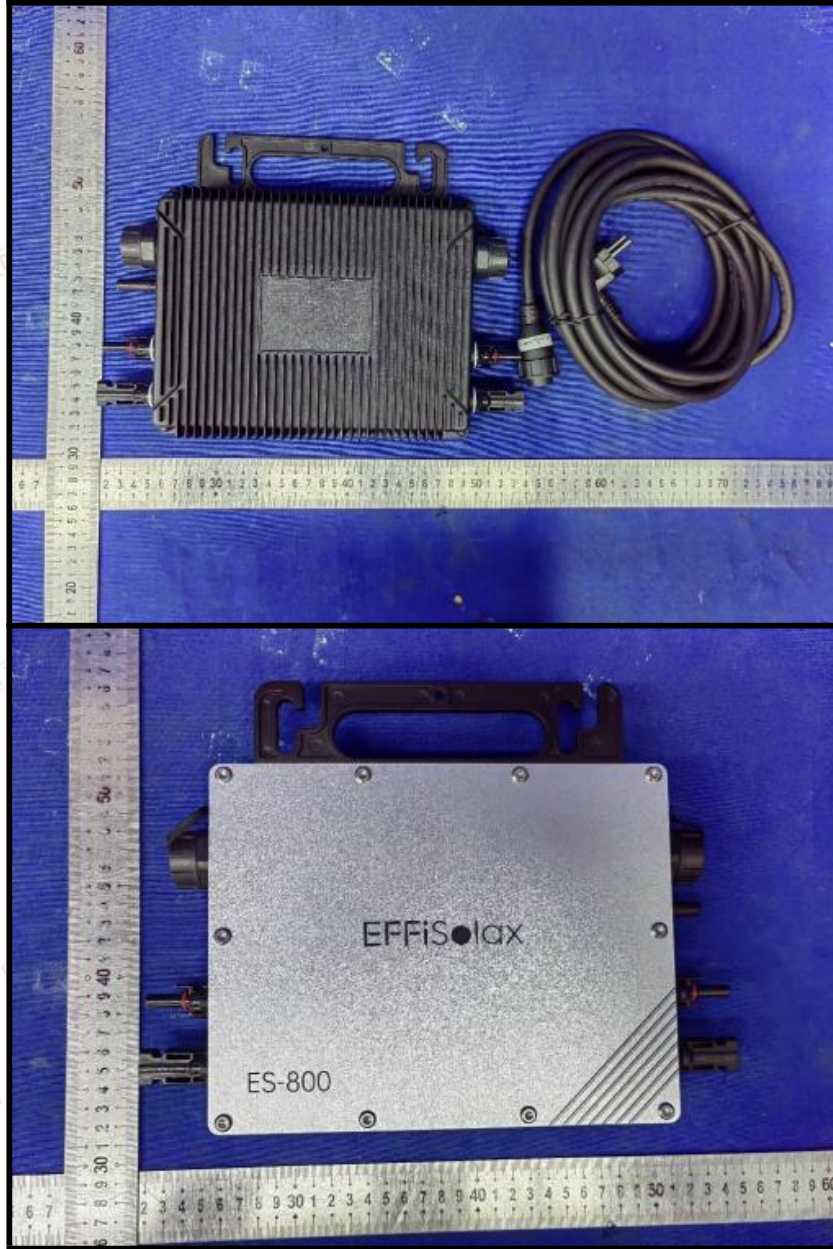
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## Appendix II

Photograph of Sample



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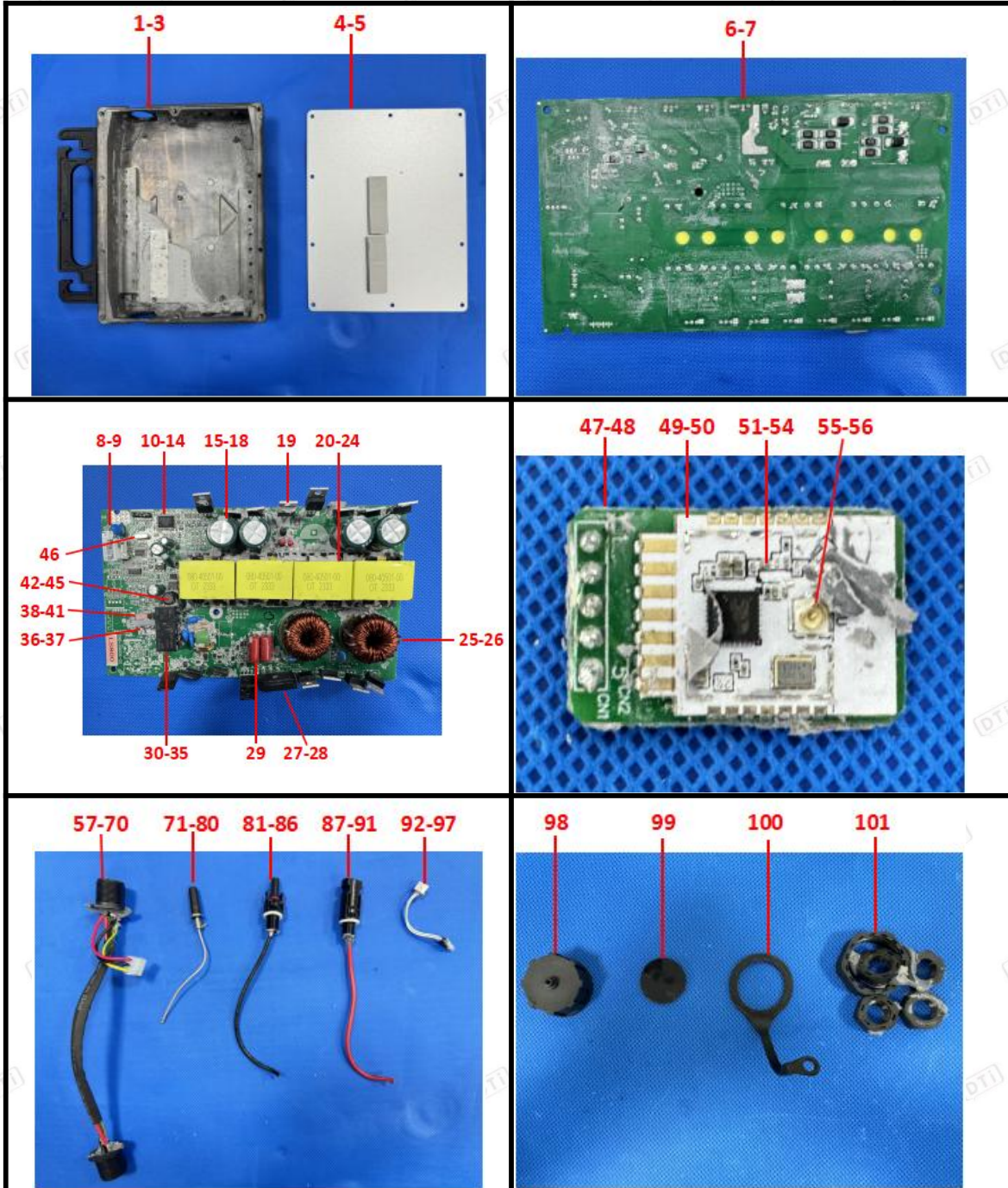
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\*\*\* End of Report \*\*\*

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