

# TEST REPORT

Report No.: LCS190517071AR

Date:2019.07.01

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**Applicant** : Fulton Science and Technology Lighting Co., Ltd  
**Address** : 7F, Building 17, Area C, Liantang Industrial Town, Shangcun Community,  
Gongming, Guangming New District, Shenzhen, Guangdong Province, China.

Report on the submitted samples said to be:

**Sample Name** : LED Tri-proof light  
**Trade Mark** : Fulton  
**Client's information** : N/A  
**Style No.** : FLT-TP-12L6, FLT-TP-14L6, FLT-TP-17L6, FLT-TP-20L6, FLT-TP-25L12,  
FLT-TP-30L12, FLT-TP-35L12, FLT-TP-40L12, FLT-TP-35L15, FLT-TP-40L15,  
FLT-TP-50L15, FLT-TP-60L15  
**Testing Period** : June 05, 2019 ~ July 01, 2019  
**Results** : Please refer to next page(s).

TEST REQUEST	CONCLUSION
<p>According to the customer's request, based on the performed tests on submitted sample, the result of Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, Dibutyl Phthalate(DBP), Benzylbutyl Phthalate(BBP), Bis(2-ethylhexyl) Phthalate(DEHP), Diisobutyl phthalate(DIBP) content comply with the limit as set of RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.</p>	<p style="text-align: center;"><b>PASS</b></p>

Signed for and on behalf of LCS



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**Results:**
**A.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						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr <sup>v</sup>	Br <sup>v</sup>		
						PBBs	PBDEs	
1	White plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
2	Grey plastic ring	BL	BL	BL	BL	BL	BL	2019-06-05
3	Gray plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
4	Silver metal sheet	BL	BL	BL	X	/	/	2019-06-05
5	White metal sheet	BL	BL	BL	BL	/	/	2019-06-05
6	Yellow LED	BL	BL	BL	BL	BL	BL	2019-06-05
7	Tin solder	BL	BL	BL	BL	/	/	2019-06-05
8	PCB board	BL	BL	BL	BL	X	X	2019-06-05
9	White plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
10	White plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
11	Red plastic thread	BL	BL	BL	BL	BL	BL	2019-06-05
12	Black plastic thread	BL	BL	BL	BL	BL	BL	2019-06-05
13	Silver wire	BL	BL	BL	BL	/	/	2019-06-05
14	White plastic pipe	BL	BL	BL	BL	BL	BL	2019-06-05
15	Black plastic sheet	BL	BL	BL	BL	X	X	2019-06-05
16	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
17	Black plastic ring	BL	BL	BL	BL	BL	BL	2019-06-05
18	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
19	Light green plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
20	Silver metal sheet	BL	BL	BL	X	/	/	2019-06-05
21	Golden metal sheet	X	BL	BL	BL	/	/	2019-06-05
22	Brown plastic thread	BL	BL	BL	BL	BL	BL	2019-06-05
23	Blue plastic thread	BL	BL	BL	BL	BL	BL	2019-06-05
24	Yellow-green plastic thread	BL	BL	BL	BL	BL	BL	2019-06-05
25	Gold wire	BL	BL	BL	BL	/	/	2019-06-05

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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr <sup>v</sup>	Br <sup>v</sup>		
						PBBs	PBDEs	
26	Silver metal sheet	BL	BL	BL	BL	/	/	2019-06-05
27	White metal sheet	BL	BL	BL	BL	/	/	2019-06-05
28	White plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
29	Yellow plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
30	Yellow plastic sheet	BL	BL	BL	BL	X	X	2019-06-05
31	Silver plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
32	Brown plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
33	Silver plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
34	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
35	Black Ceramic Slices	BL	BL	BL	BL	BL	BL	2019-06-05
36	Gold wire	BL	BL	BL	BL	/	/	2019-06-05
37	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
38	Silver metal sheet	BL	BL	BL	BL	/	/	2019-06-05
39	Silver metal sheet	BL	BL	BL	BL	/	/	2019-06-05
40	Grey metal sheet	BL	BL	BL	BL	/	/	2019-06-05
41	Brown paper	BL	BL	BL	BL	BL	BL	2019-06-05
42	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
43	Silver metal sheet	BL	BL	BL	BL	/	/	2019-06-05
44	Silver metal needle	BL	OL	BL	BL	/	/	2019-06-05
45	Yellow plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
46	Black Ceramic Slices	BL	BL	BL	BL	BL	BL	2019-06-05
47	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
48	Gold wire	BL	BL	BL	BL	/	/	2019-06-05
49	Purple plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
50	Silver metal sheet	BL	BL	BL	BL	/	/	2019-06-05

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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr <sup>v</sup>	Br <sup>v</sup>		
						PBBs	PBDEs	
51	Silver metal sheet	BL	BL	BL	BL	/	/	2019-06-05
52	Grey metal sheet	BL	BL	BL	BL	/	/	2019-06-05
53	Brown paper	BL	BL	BL	BL	BL	BL	2019-06-05
54	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
55	Silver metal sheet	BL	BL	BL	BL	/	/	2019-06-05
56	Silver metal needle	OL	BL	BL	BL	/	/	2019-06-05
57	White plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
58	Red plastic sheet	BL	BL	BL	BL	X	X	2019-06-05
59	Black plastic sheet	BL	BL	BL	BL	X	X	2019-06-05
60	Golden metal sheet	BL	BL	BL	BL	/	/	2019-06-05
61	Gray plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
62	Red plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
63	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
64	Silver metal sheet	BL	BL	BL	BL	/	/	2019-06-05
65	Grey color ring resistance	BL	BL	BL	BL	BL	BL	2019-06-05
66	Green Ceramic Capacitance	BL	BL	BL	BL	BL	BL	2019-06-05
67	Blue Ceramic Capacitance	BL	BL	BL	BL	BL	BL	2019-06-05
68	Black Diode	BL	BL	BL	BL	X	X	2019-06-05
69	Tin solder	BL	BL	BL	BL	/	/	2019-06-05
70	chip resistor	BL	BL	BL	X	BL	BL	2019-06-05
71	Black IC	BL	BL	BL	BL	BL	BL	2019-06-05
72	Black IC	BL	BL	BL	BL	BL	BL	2019-06-05
73	White patch capacitor	BL	BL	BL	BL	BL	BL	2019-06-05
74	Brown patch capacitor	BL	BL	BL	BL	BL	BL	2019-06-05
75	Patch diode	BL	BL	BL	BL	BL	BL	2019-06-05

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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr <sup>▼</sup>	Br <sup>▼</sup>		
						PBBs	PBDEs	
76	PCB board	BL	BL	BL	BL	X	X	2019-06-05
77	White plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
78	Silver metal screw	BL	BL	BL	BL	/	/	2019-06-05
79	Silver metal screw	BL	BL	BL	BL	/	/	2019-06-05
80	Silver metal screw	BL	BL	BL	BL	/	/	2019-06-05
81	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
82	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
83	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
84	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05
85	Silver metal sheet	BL	BL	BL	X	/	/	2019-06-05
86	Silver metal screw	BL	BL	BL	BL	/	/	2019-06-05
87	White plastic sheet	BL	BL	BL	BL	BL	BL	2019-06-05

Note:

- (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≤70-3σ<X <130+3σ≤OL	BL≤70-3σ<X <130+3σ≤OL	BL≤50-3σ<X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ<X	BL≤700-3σ<X	BL≤500-3σ<X
Br	mg/kg	BL≤300-3σ<X	--	BL≤250-3σ<X

Note:

- BL = Below Limit  
 OL = Over Limit  
 X = Inconclusive

- (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.
- (3) The maximum permissible limit is quoted from the document 2015/863/EC amending RoHS directive 2011/65/EU:
- (4) ▼=For restricted substances PBBs and PBDEs, the results show the total Br content; The restricted substance was Cr(VI), and the results showed the total Cr content

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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 diphenylethers (PBDEs)	1000
Dibutyl Phthalate(DBP)	1000
Benzylbutyl Phthalate(BBP)	1000
Bis(2-ethylhexyl) Phthalate(DEHP)	1000
Diisobutyl phthalate(DIBP)	1000

**Disclaimers:**

This XRF Screening 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 report is sufficient for its/his/her purposes.

The result shown in this XRF screening 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 are required to obtain quantitative data.

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## **B. EU RoHS Directive 2011/65/EU and its amendment Directives 2015/863/EU on Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content.**

### Test method:

Lead(Pb) & Cadmium(Cd) Content:

With reference to IEC 62321-5:2013, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Mercury(Hg) Content:

With reference to IEC 62321-4:2013+AMD1:2017 CSV, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Hexavalent Chromium(Cr<sup>6+</sup>) Content:

With reference to IEC 62321-7-1:2015 or 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)

BBP DBP DEHP & DIBP Content:

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

### **1) The test results of Lead (Pb) and Cadmium (Cd)**

Item	Unit	MDL	Results			Limit
			(44)			
Lead Content (Pb)	mg/kg	2	N.D.			1000

Item	Unit	MDL	Results		Limit
			(21)	(56)	
Cadmium Content (Cd)	mg/kg	2	N.D.	N.D.	100

### **2) The test results of Hexavalent Chromium (Cr<sup>6+</sup>)(for nonmetal)**

Item	Unit	MDL	Results			Limit
			(70)			
Hexavalent Chromium (Cr <sup>6+</sup> )	mg/kg	8	N.D.			1000

### **3) The test results of Hexavalent Chromium (Cr<sup>6+</sup>)(metal)**

Item	Unit	MDL	Results			Limit
			(4)	(20)	(85)	
Hexavalent Chromium (Cr <sup>6+</sup> )	ug/cm <sup>2</sup>	0.10	N.D.	N.D.	N.D.	1000

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Note:

- MDL = Method Detection Limit
- /= Not apply
- LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10  $\mu\text{g}/\text{cm}^2$
- mg/kg = ppm=parts per million
- N.D.=Not Detected(<MDL or LOQ)
- \*The sample is negative for Cr(VI)-The Cr(VI) concentration is below 0.10 $\mu\text{g}/\text{cm}^2$   
The coating is considered a non-Cr(VI) based coating.
- #1 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted in glass of cathode ray tubes, electronic components and fluorescent tubes.
- #2 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted in electronic ceramic parts (e.g. piezoelectronic devices).
- #3 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.
- #4 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).
- #5 According to the statement provided by the customer, according to RoHS directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Aluminum containing up to 0.4% (4000ppm) by weight.
- #6 According to the statement provided by the customer, according to RoHS directive 2011/65/EU and its amendments, Cadmium and its compounds in electrical contact is exempted.
- Flow chart appendix is included.
- Photo appendix is included.

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#### 4) The test results of DBP、BBP、DEHP & DIBP

Item	Unit	MDL	Results			Limit
			2	10	11	
DibuyI Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	1000
Diispbutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	1000

Item	Unit	MDL	Results			Limit
			12	14	17	
DibuyI Phthalate(DBP)	mg/kg	50	N.D.	N.D.	57	1000
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	71	1000
Diispbutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	1000

Item	Unit	MDL	Results			Limit
			22	23	24	
DibuyI Phthalate(DBP)	mg/kg	50	N.D.	215	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	57	N.D.	1000
Diispbutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	1000

Item	Unit	MDL	Results		Limit
			70	28+29+31+33+34+37	
DibuyI Phthalate(DBP)	mg/kg	50	N.D.	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	1000
Diispbutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	1000

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Item	Unit	MDL	Results		Limit
			41+42+45+49+53+54	87+1+3+6	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	1000

Item	Unit	MDL	Results		Limit
			9+15+16+18+19+30	32+35+46+47+57+58	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	1000

Item	Unit	MDL	Results		Limit
			61+62+63+65+66+67	71+72+73+74+75+76	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	1000

Item	Unit	MDL	Results		Limit
			77+81+82	8+59+68	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	1000
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	1000

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## 5) The test results of PBBs & PBDEs

Item	Unit	MDL	Results		Limit
			8+15	30+58	
<b>Polybrominated Biphenyls (PBBs)</b>					
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	1000
<b>Polybrominated Diphenylethers (PBDEs)(Mon-Deca)</b>					
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	1000

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Item	Unit	MDL	Results		Limit
			59+68	76	
<b>Polybrominated Biphenyls (PBBs)</b>					
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	1000
<b>Polybrominated Diphenylethers (PBDEs)(Mon-Deca)</b>					
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	1000

**Remark:**

- mg/kg = ppm
- N.D. = Not detected
- MDL=Method detected limited
- Flow chart appendix is included
- Photo appendix is included.

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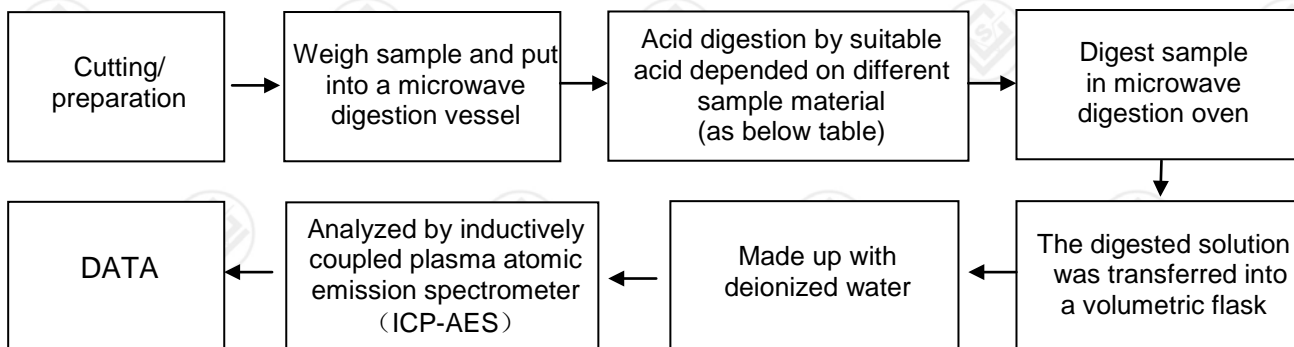
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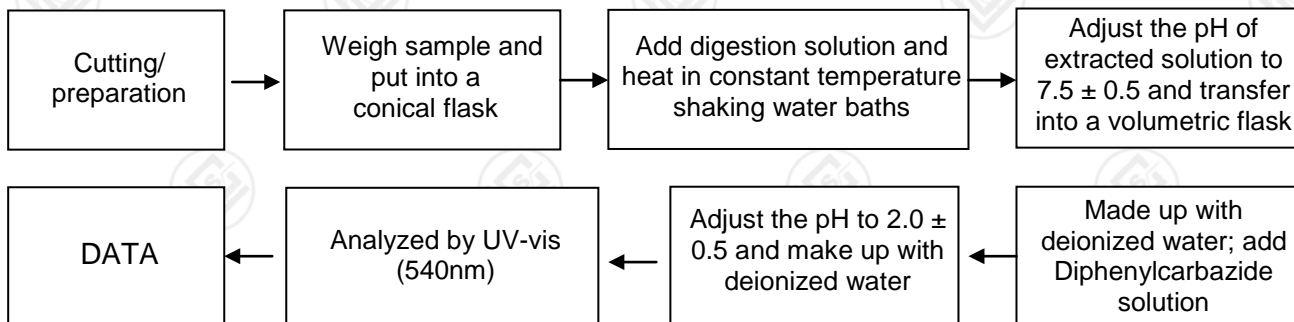
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## Appendix

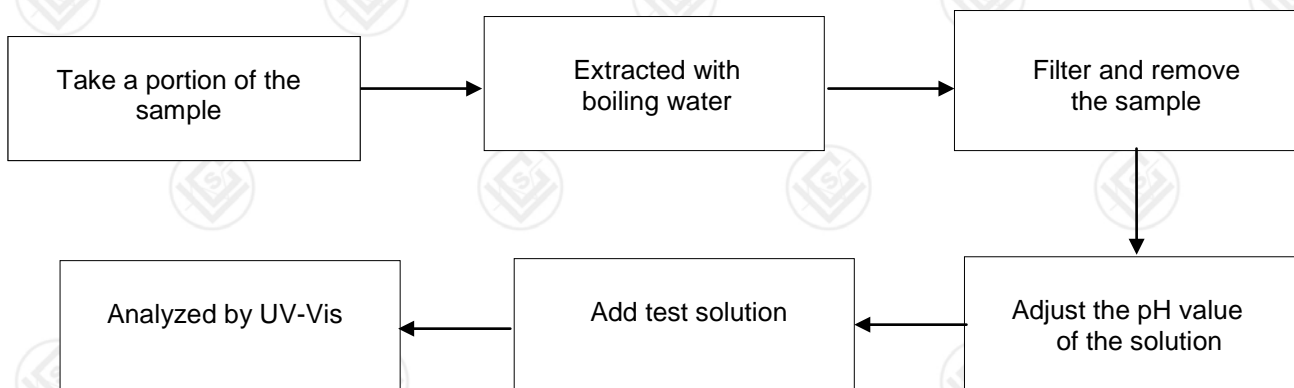
### 1. Test Flow chart for Cd/Pb /Hg content



### 2. Test Flowchart for Cr<sup>6+</sup> content (For non-metal material)



### Test Flowchart for Cr<sup>6+</sup> content (For metal material)



\*\*\*\*\*



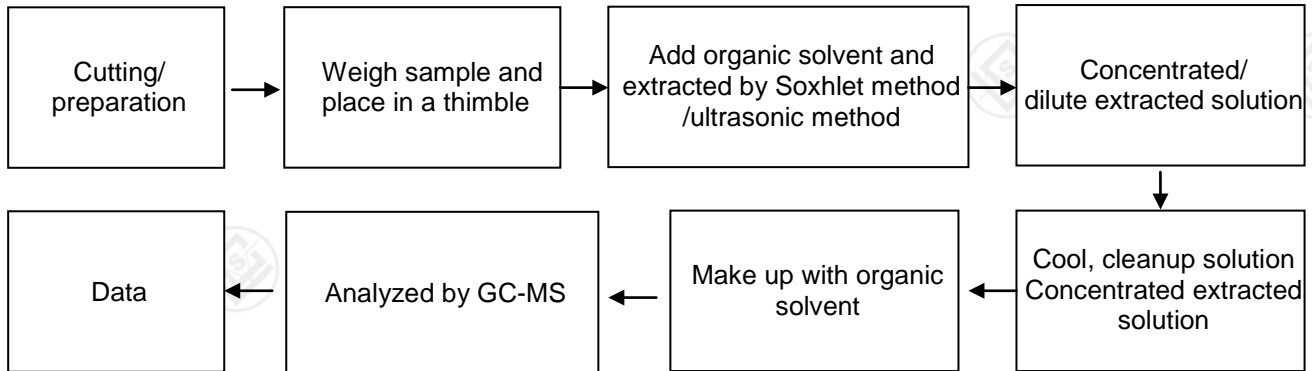
# TEST REPORT

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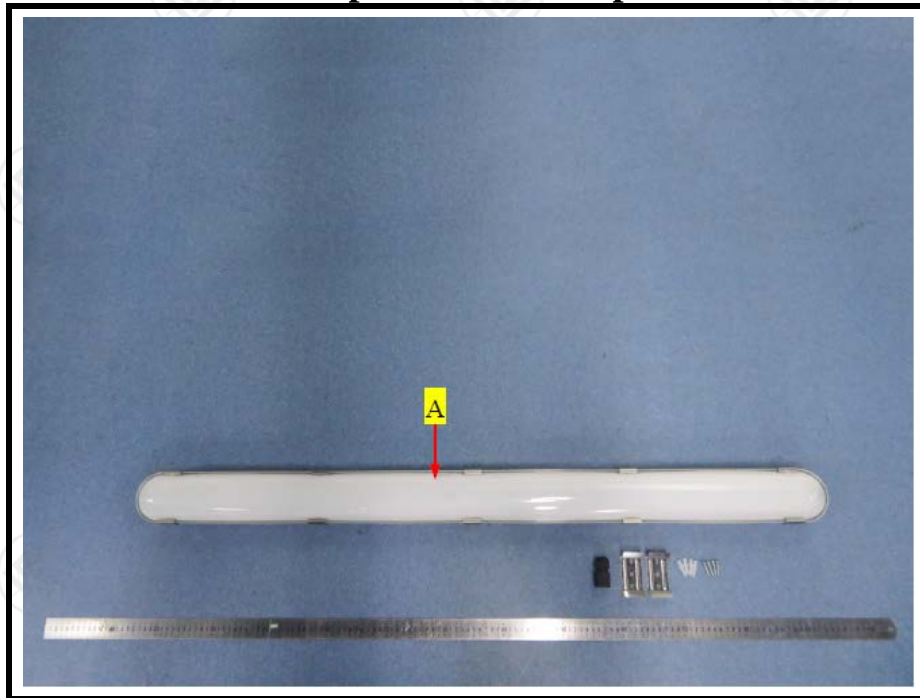
Date:2019.07.01

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## 3. Test Flow chart for PBBs & PBDEs & DBP & BBP & DEHP & DIBP content



The photo of the sample

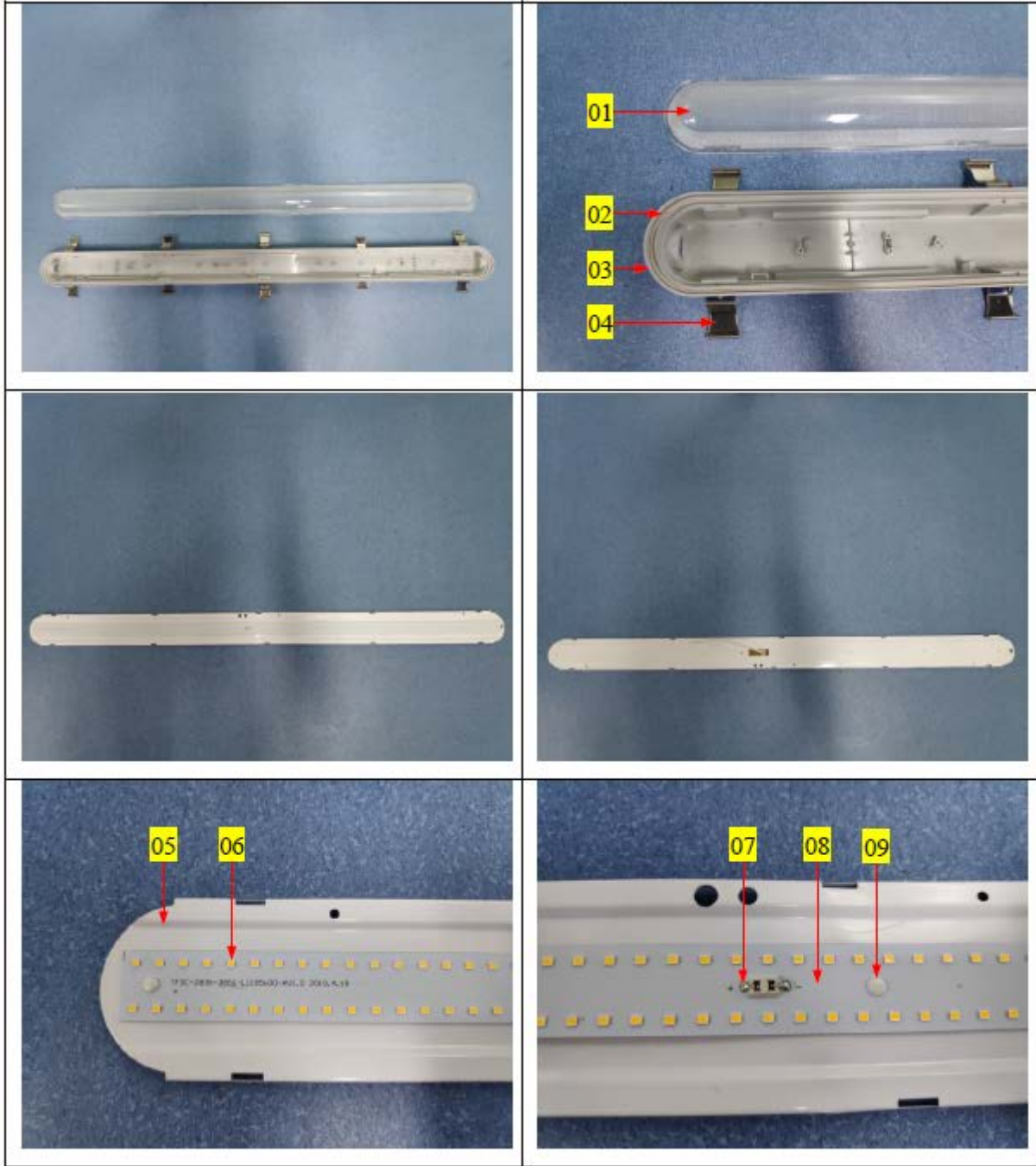


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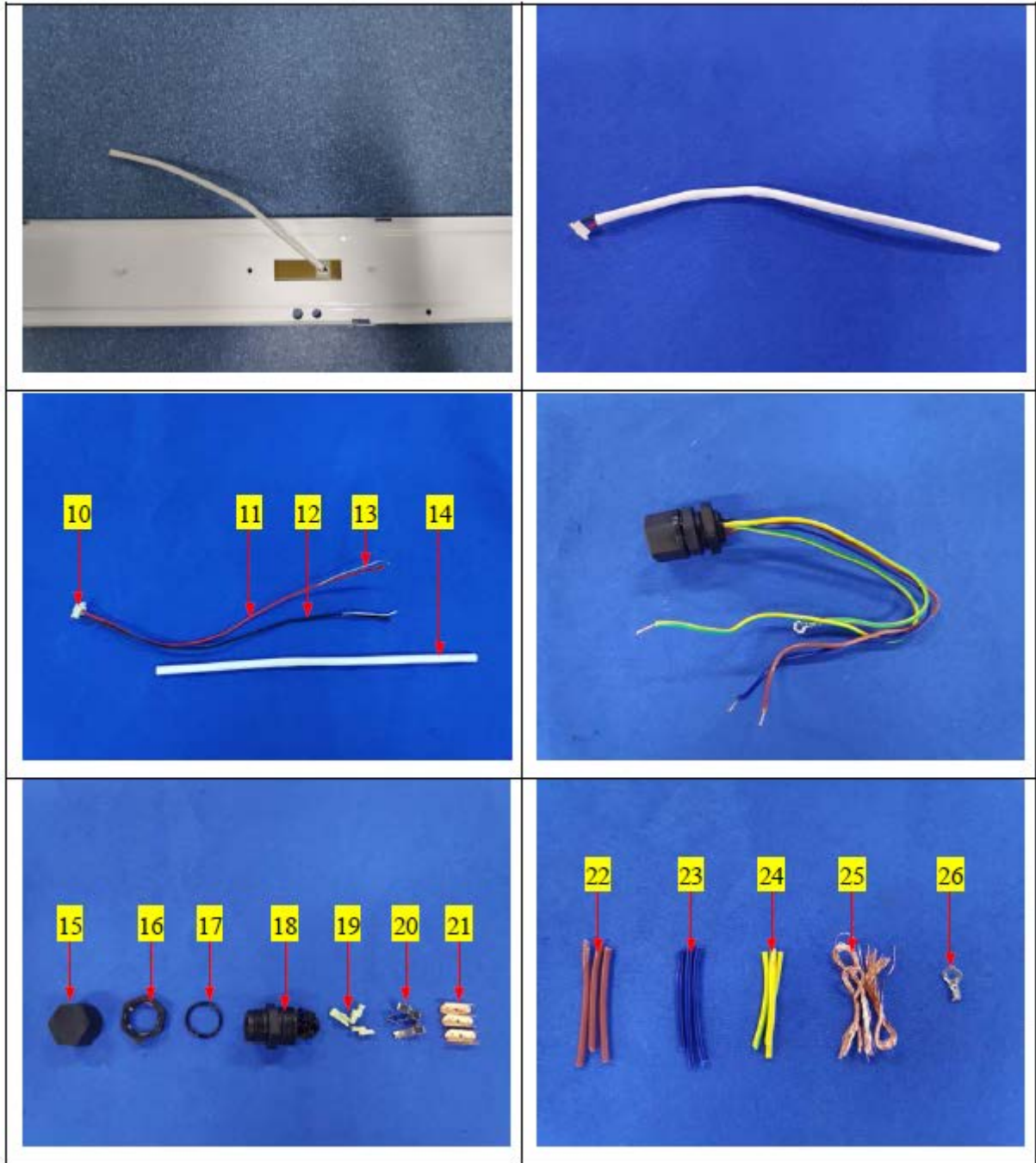


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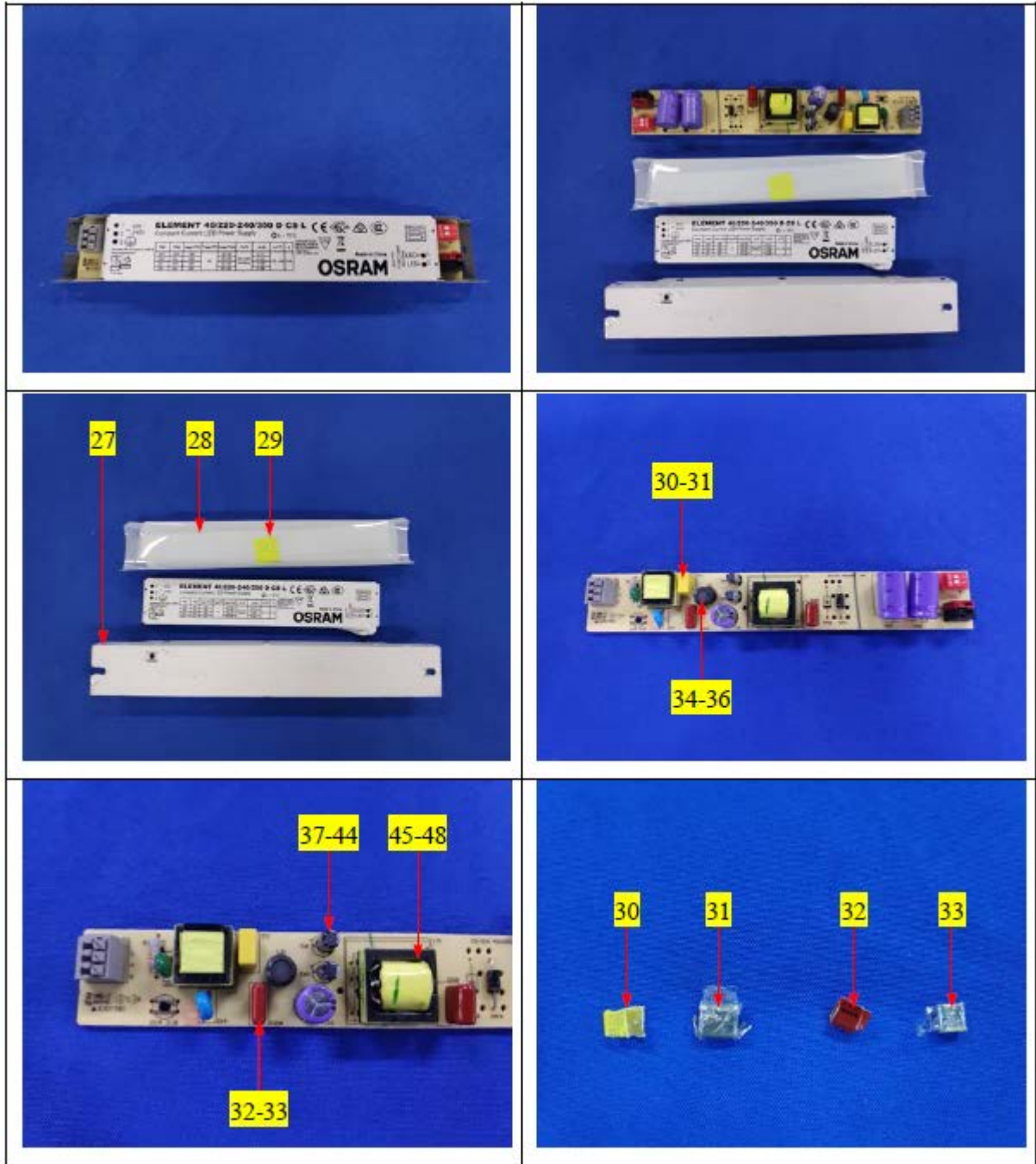


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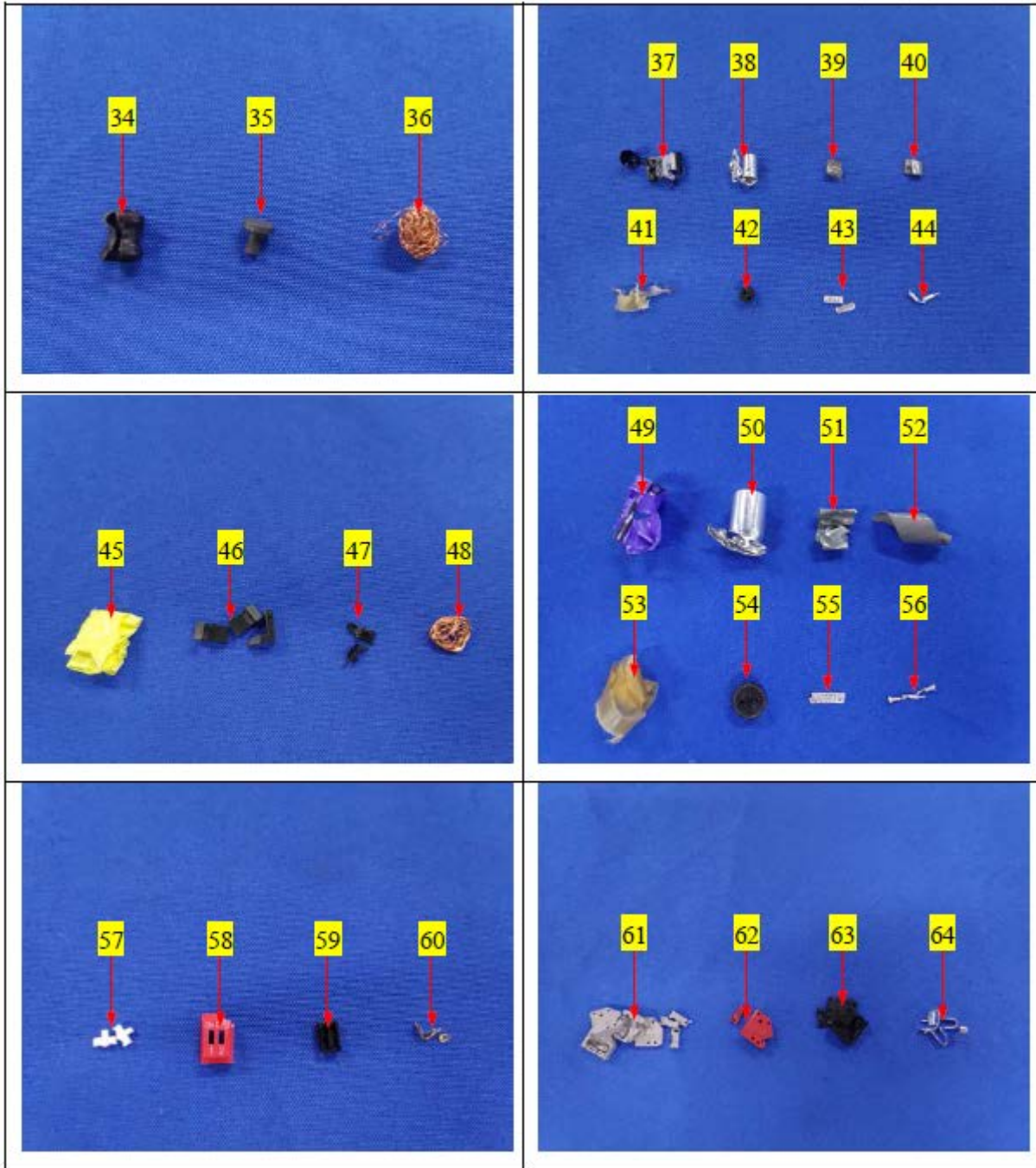


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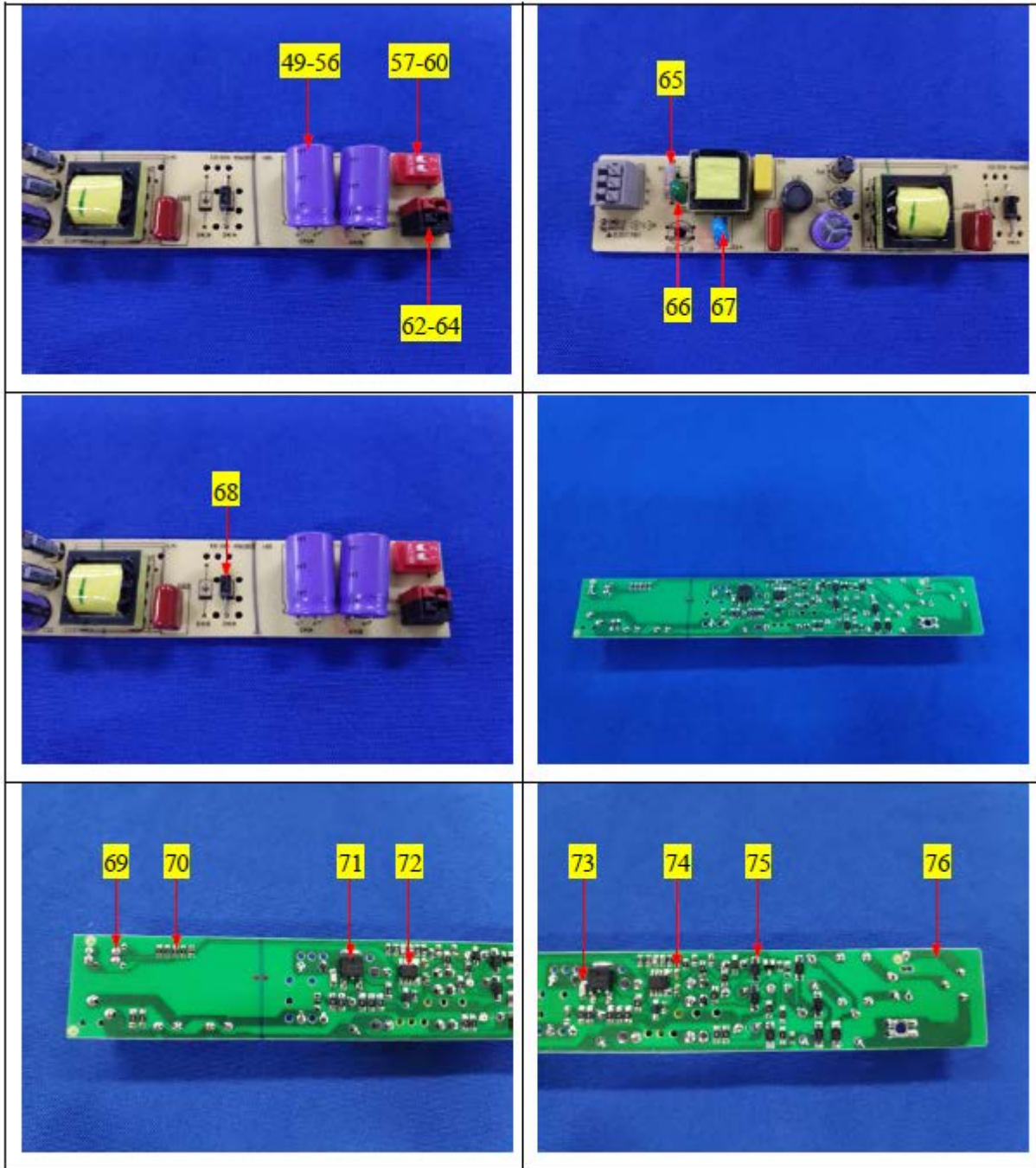


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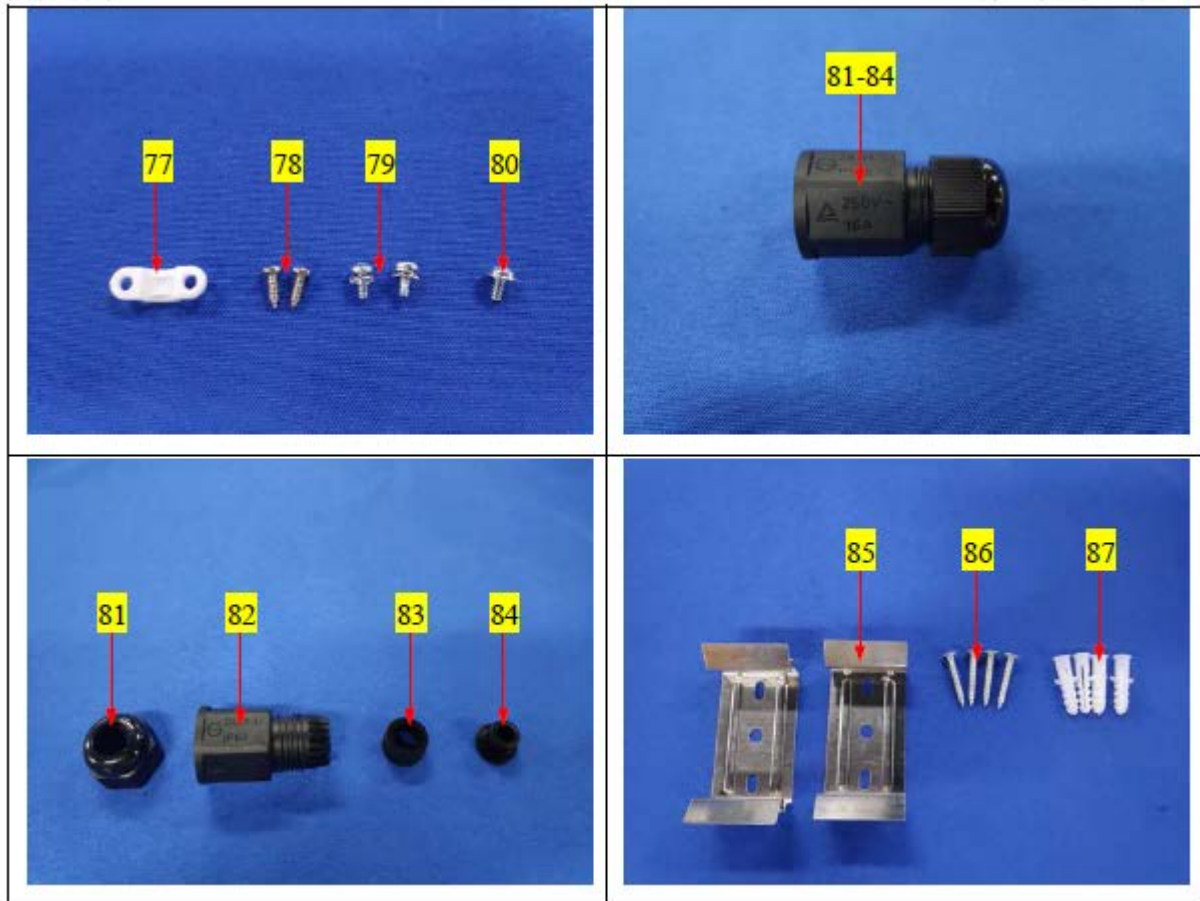


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\*\*\*\*\* End of Report \*\*\*\*\*

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