

# TEST REPORT

**Applicant** : Guangzhou Baiyun district paidun stage lighting instrument factory  
**Address** : Room 201, Floor 2, No.11 Jiangshi Road, Hebu Village, Jianggao Town, Baiyun District, Guangzhou

**Report on the submitted sample said to be:**

**Sample name** : Sprayer  
**Trade Mark** : N/A  
**Model** : Phj, DJphj 1, XJphj2, DJphj 2, XJphj1  
**Manufacture** : Guangzhou Baiyun district paidun stage lighting instrument factory  
**Address** : Room 201, Floor 2, No.11 Jiangshi Road, Hebu Village, Jianggao Town, Baiyun District, Guangzhou  
**Sample received date** : May. 06, 2023  
**Testing period** : May. 06, 2023- May. 11, 2023

Test Requested:	Conclusion :.
RoHS Directive 2011/65/EU and its subsequent amendments & Directive (EU)2015/863 — Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs Content —Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate(DIBP) Content	Pass

\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

**Shenzhen Huaxiang Testing Co., Ltd**



Drafted By: \_\_\_\_\_  
 (Kevin su)  
 Approved By: \_\_\_\_\_  
 LAB Manager: Amy jiang  
 Date: \_\_\_\_\_  
 May. 11. 2023



**Test Part Description:..**

Specimen No.	Description.
001	Metal plate
002	LED lamp
003	Display
004	key
005	Switch
006	Remote control
007	Battery
008	Plastics
009	Cable
010	White Plastic
011	Metal handle
012	Black plastic
013	Metal
014	Metal
015	PCB
016	Wire
017	White Plastic
018	Resistance
019	Chip
020	Metal
021	Copper wire
022	PCB
023	White Plastic
024	Display
025	key
026	LED lamp

**TEST RESULT:**
**1. Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs—RoHS Directive (EU) 2015/863.**

Test Items	Unit	Test Method	Result	MDL	Limit
			001		
Lead (Pb)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321-4:2013+A1:2017*, ICP-OES	N.D.	2	1000
Cadmium(Cd)	mg/kg	IEC 62321-5:2013, ICP-OES	N.D.	2	100
Hexavalent Chromium (CrVI)	µg/cm <sup>2</sup>	IEC 62321-7-1:2015, UV-VIS	N.D.	0.10	0.10
Monobromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Dibromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Tribromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Tetrabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Pentabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Hexabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Heptabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Octabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Nonabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Decabromobiphenyl	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Sum of PBBs	mg/kg	-	N.D.	-	1000
Monobromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Dibromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Tribromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Tetrabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Pentabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Hexabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Heptabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Octabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Nonabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Decabromodiphenyl ether	mg/kg	IEC 62321-6:2015, GC-MS	N.D.	5	-
Sum of PBDEs	mg/kg	-	N.D.	-	1000

**Note:**

1. mg/kg = milligram per kilogram = ppm
2. N.D. = Not Detected (< MDL)
3. MDL = Method Detection Limit
4. "-" = Not Regulated
5. Boiling-water-extraction:  
 Negative = Absence of Cr(VI) coating / surface layer: the detected concentration in

boiling-water-extraction solution is less than 0.10µg with 1cm<sup>2</sup> sample surface area.  
 Positive = Presence of Cr(VI) coating / surface layer: the detected concentration in boiling-water-extraction solution is greater than 0.13µg with 1cm<sup>2</sup> sample surface area.

Inconclusive =the detected concentration in boiling-water-extraction solution is greater than 0.10µg and less than 0.13µg with 1cm<sup>2</sup> sample surface area.

- 6. Positive = result be regarded as not comply with RoHS requirement
- 7. Negative = result be regarded as comply with RoHS requiremen

**2. Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP) Content—RoHS Directive (EU) 2015/863.**

Test method: With reference to IEC 62321-8:2017\*, analysis was performed by GC-MS.

Test Items	Unit	Result	MDL	Limit
		001		
Di-(2-ethylhexyl) phthalate (DEHP)	mg/kg	N.D.	50	1000
Benzylbutyl phthalate (BBP)	mg/kg	N.D.	50	1000
Dibutyl phthalate (DBP)	mg/kg	N.D.	50	1000
Diisobutyl phthalate(DIBP)	mg/kg	N.D.	50	1000

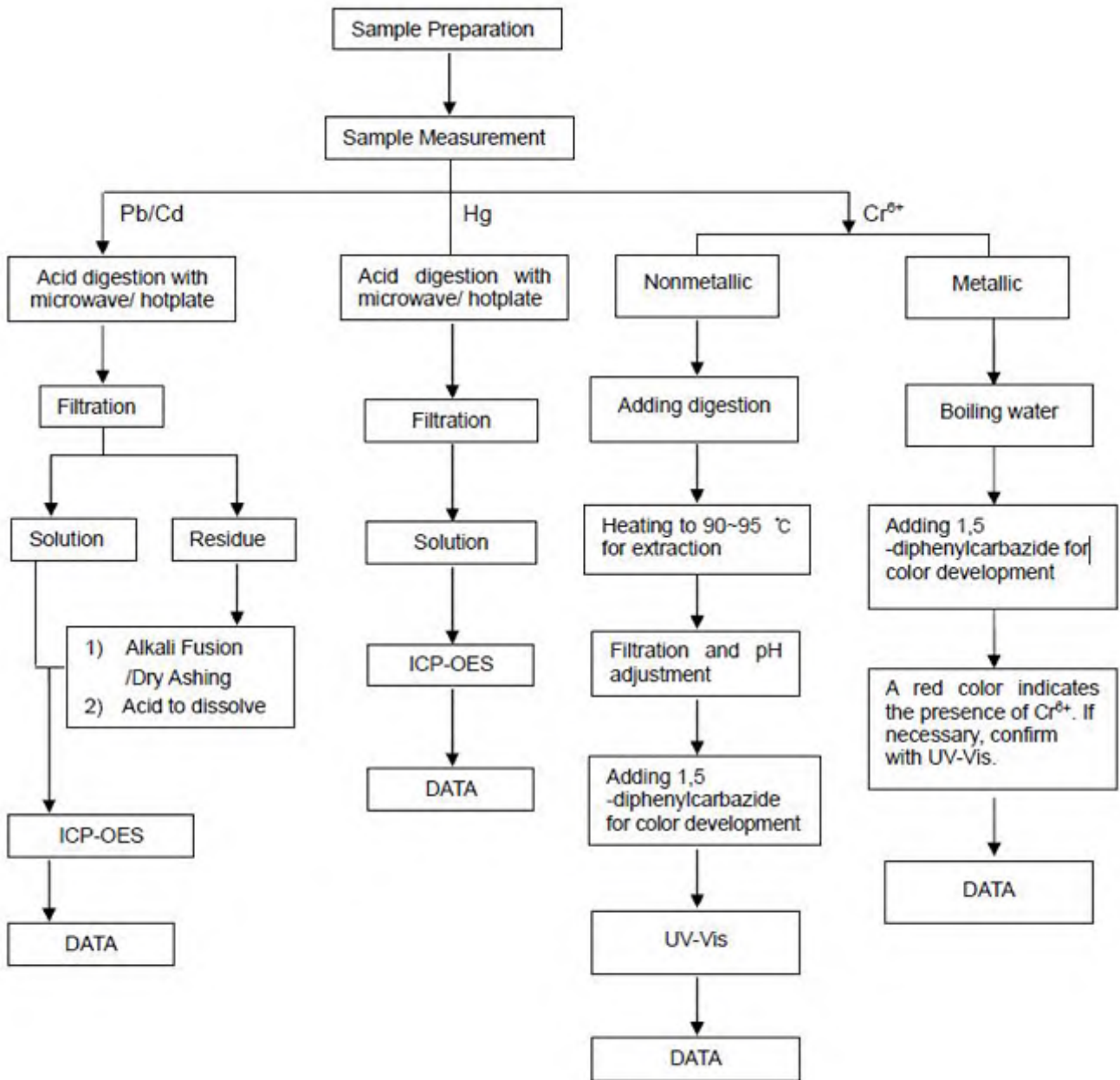
Note:

- 1. mg/kg = milligram per kilogram = ppm
- 2. N.D. = Not Detected (<MDL)
- 3. MDL = Method detection limit
- 4. “\*”=The test method of Phthalates is not authorized by CNAS

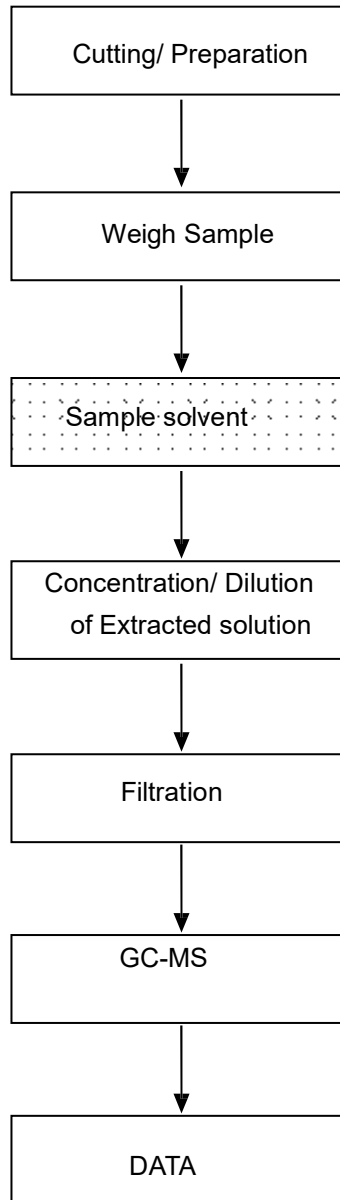
**FLOW CHART FOR ROHS TESTING:**

**Pb/Cd/Hg/Cr6+ Testing Flow Chart**

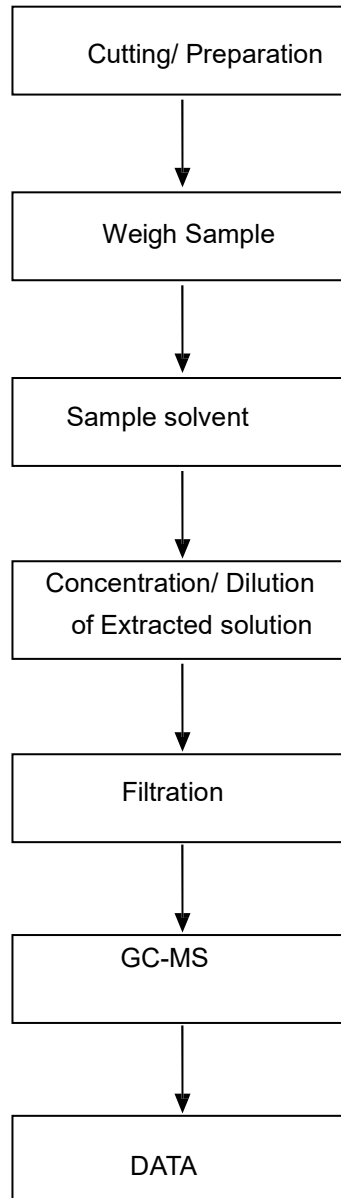
- 1) These samples were dissolved totally by pre-conditioningmethod according to below flow chart (Cr<sup>6+</sup> test method excluded)



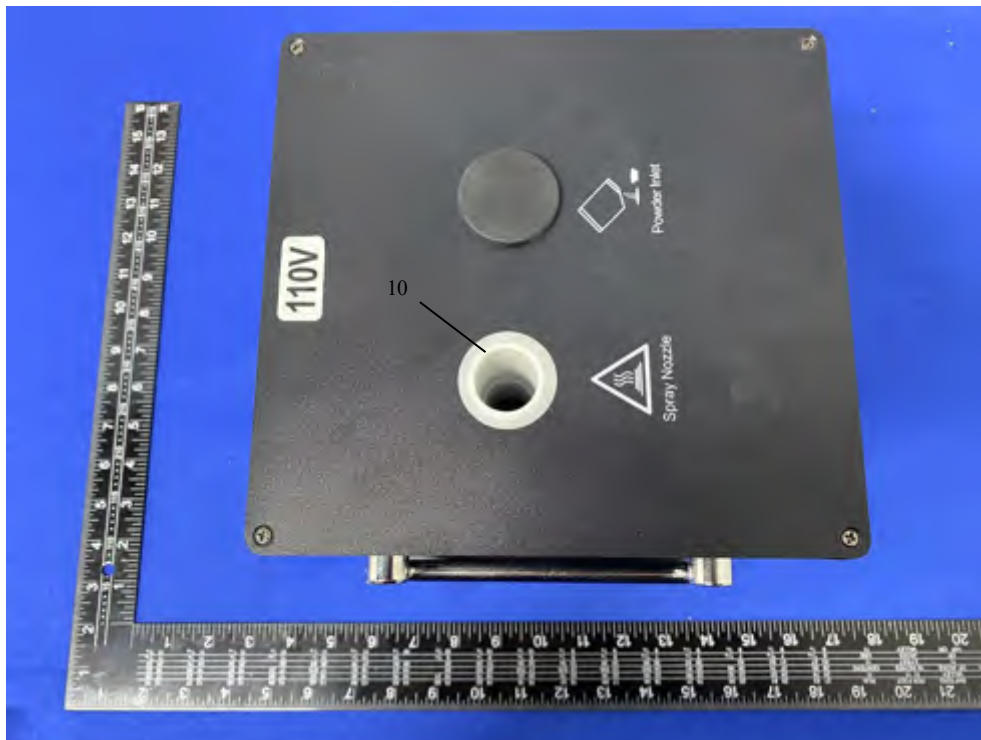
PBBs/PBDEs Testing Flow Chart



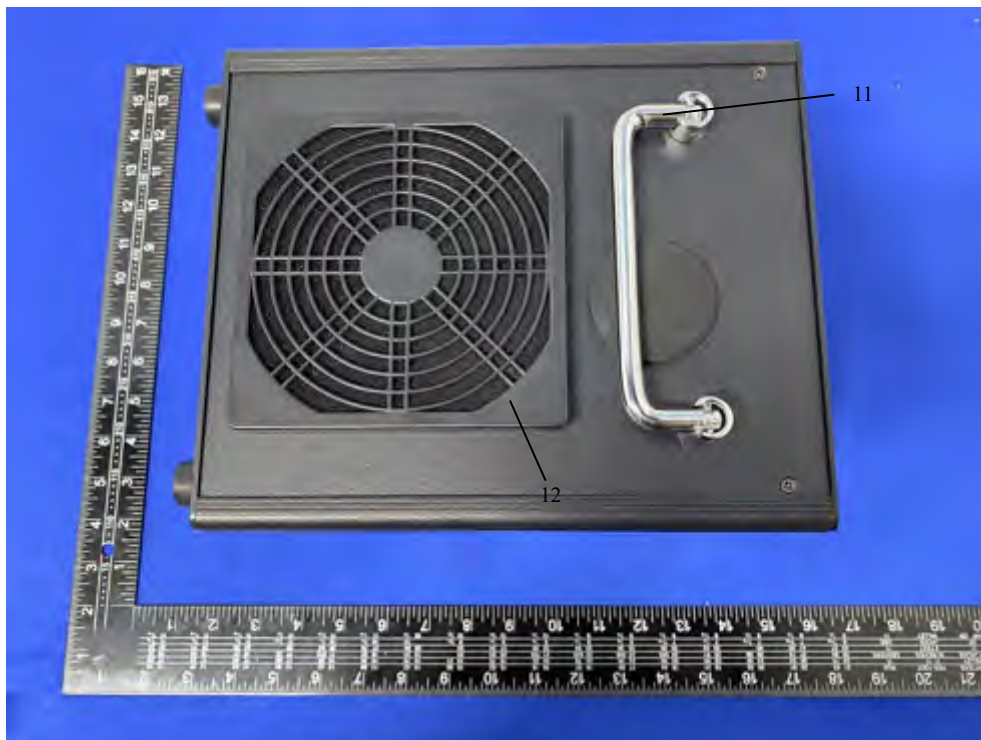
**Phthalates Testing Flow Chart**

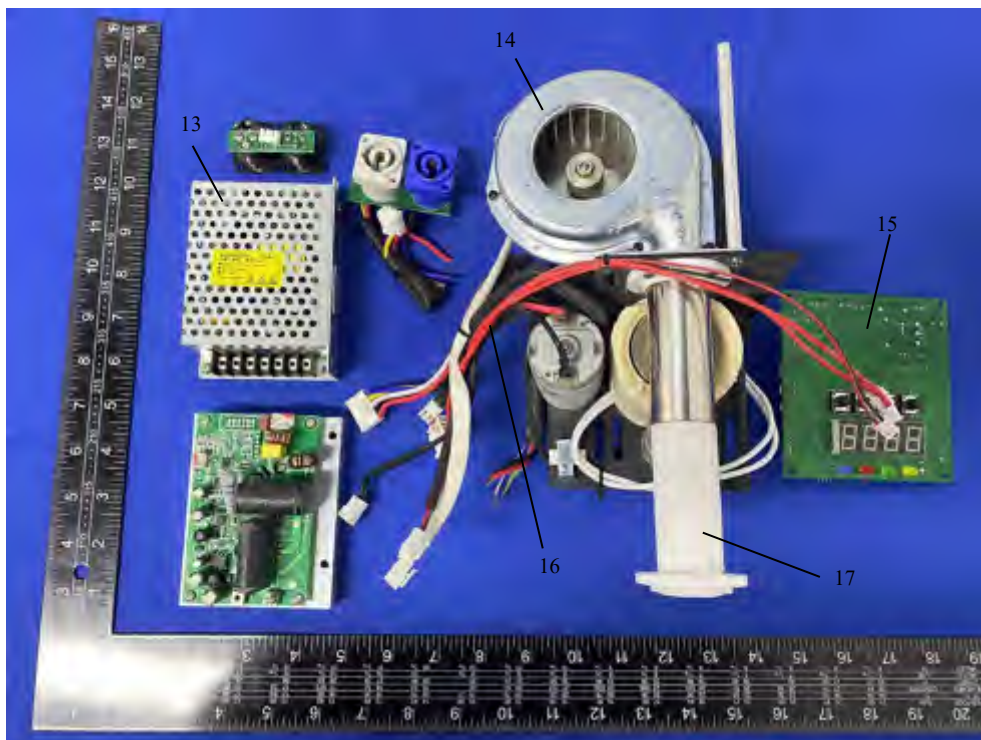
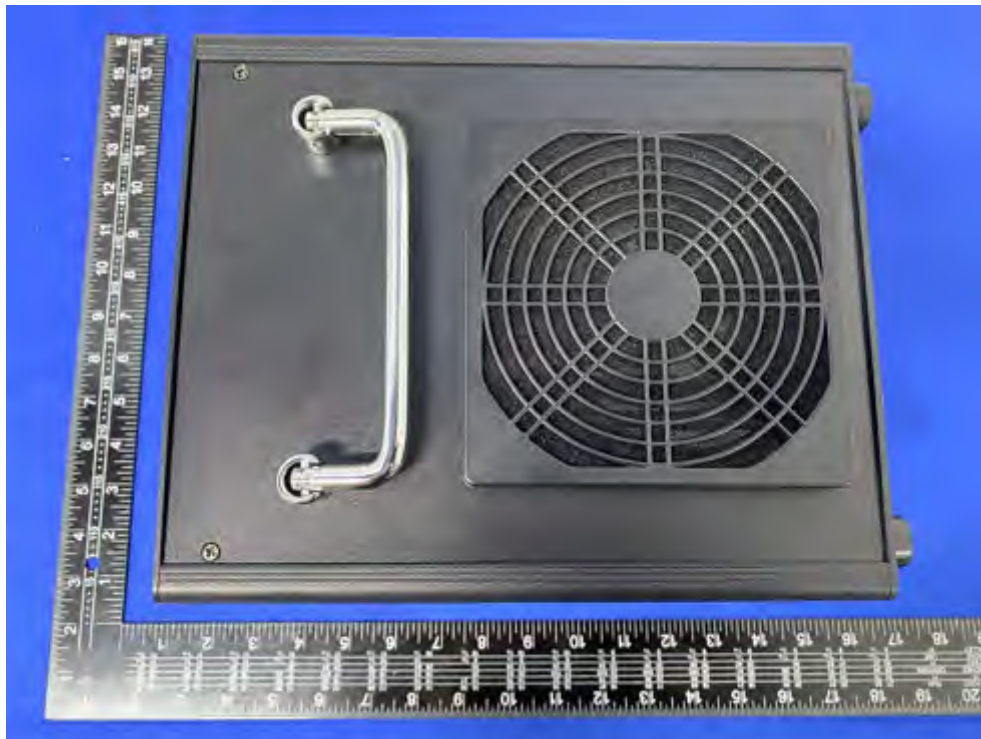


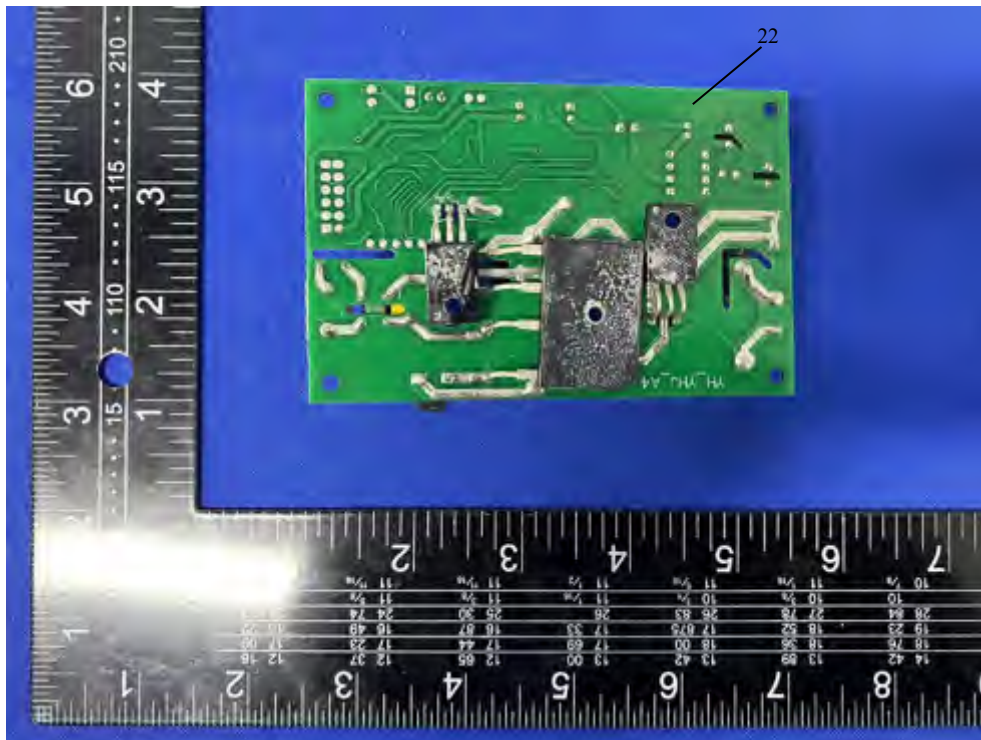
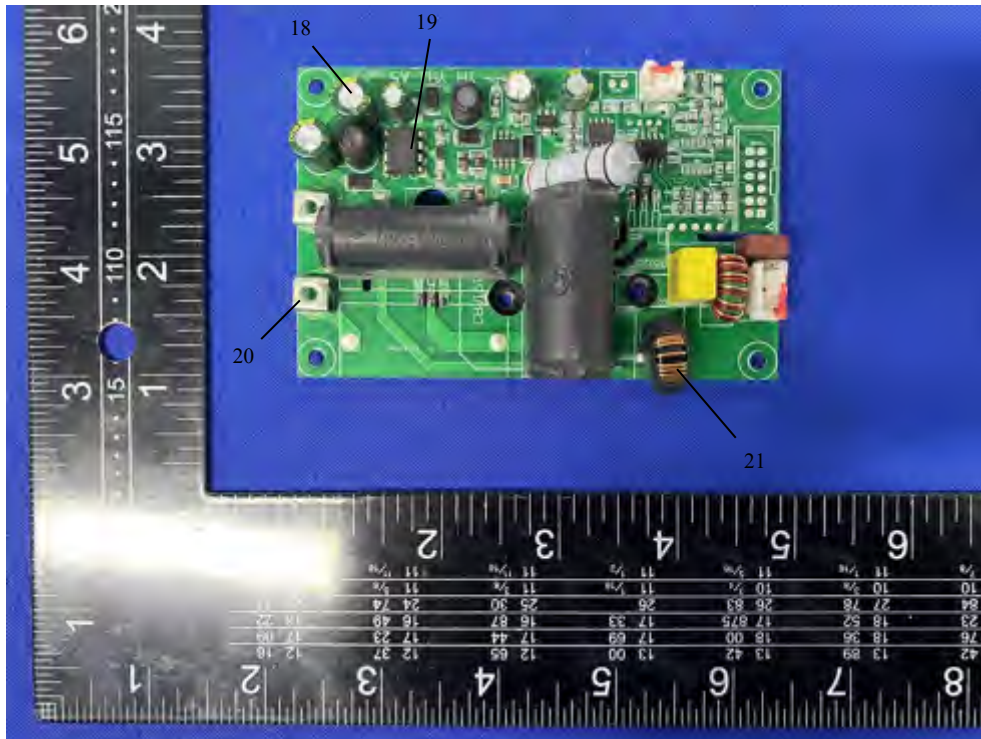
PHOTOGRAPH OF SAMPLE:

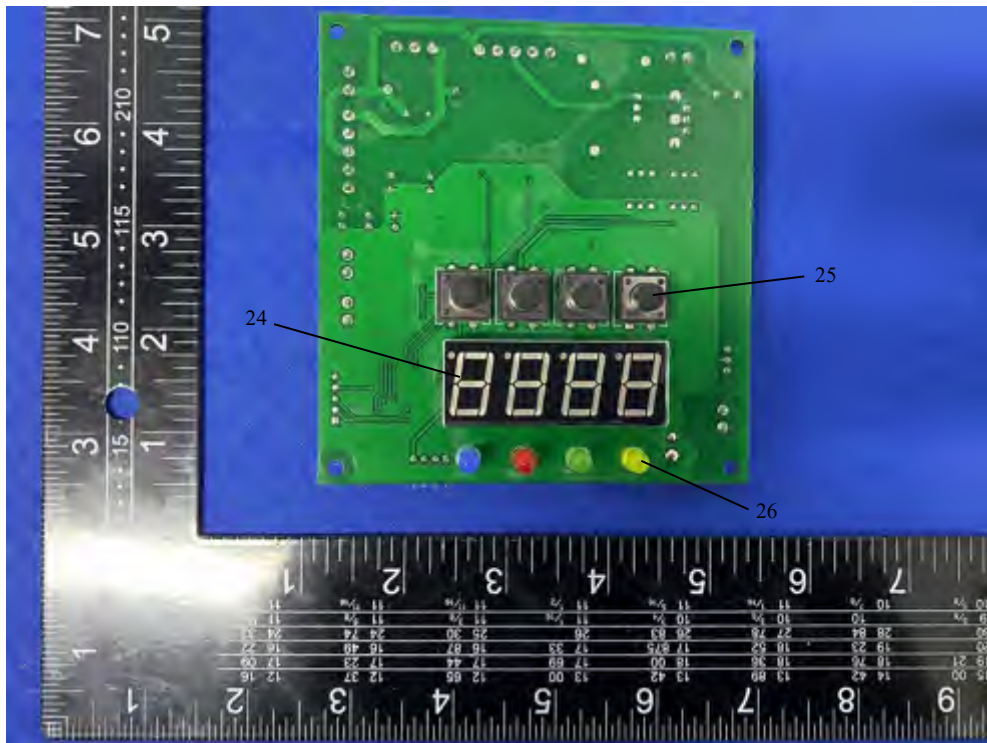
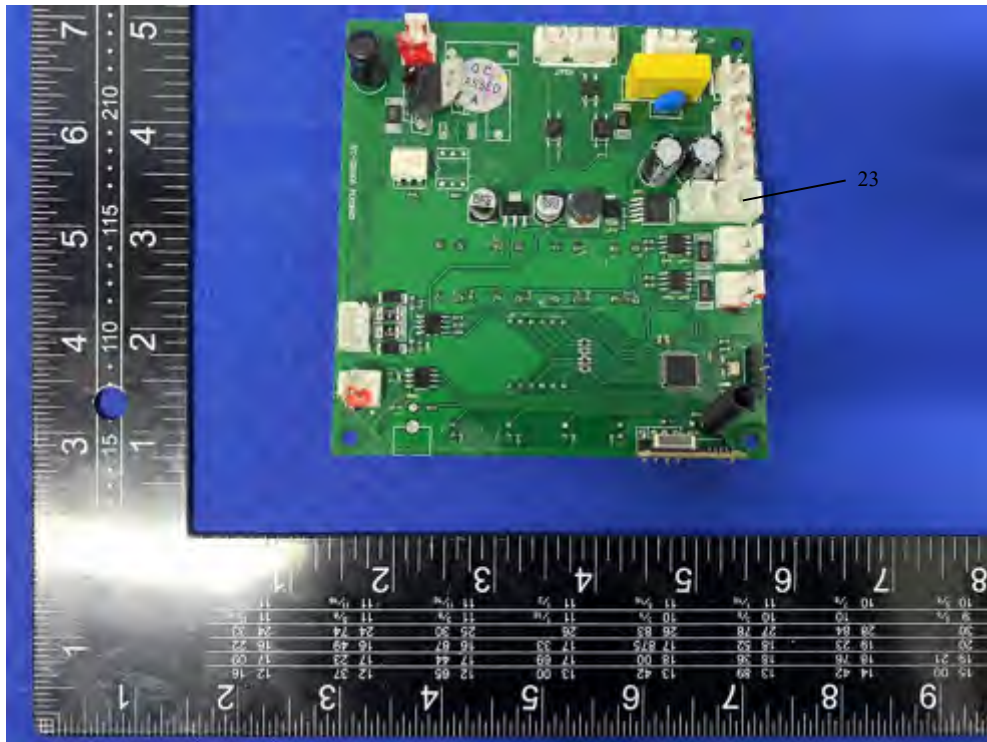












\*\*\*\*\* THE END \*\*\*\*\*