



CE RoHS TEST REPORT

For

LED Bulb

Model No.: VT-1880, VT-1886, VT-1896, VT-1855TP, VT-1855, VT-2029, VT-2033, VT-2043, VT-2032, VT-2076, VT-2106, VT-2097, VT-2098

Applicant : V-TAC EXPORTS LIMITED

ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD
CENTRAL, CENTRAL, HONGKONG

Manufacturer : V-TAC EXPORTS LIMITED

ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD
CENTRAL, CENTRAL, HONGKONG

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Report Number : J02.06.0181R

Issued Date : July 11, 2017

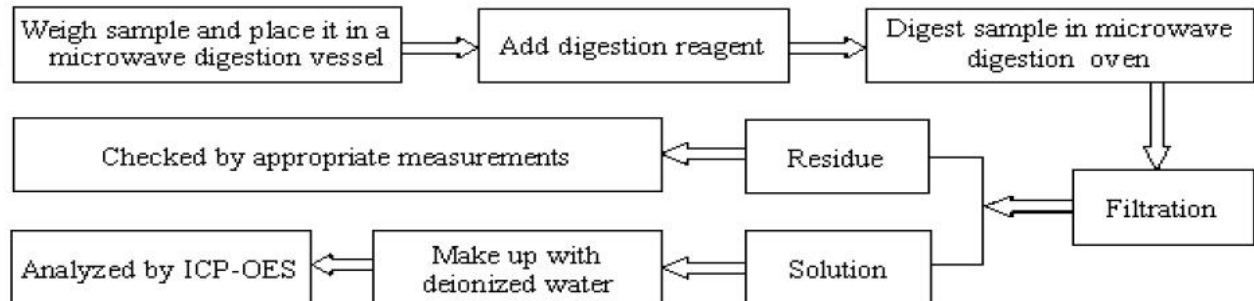
Date of Report : July 11, 2017

Note:

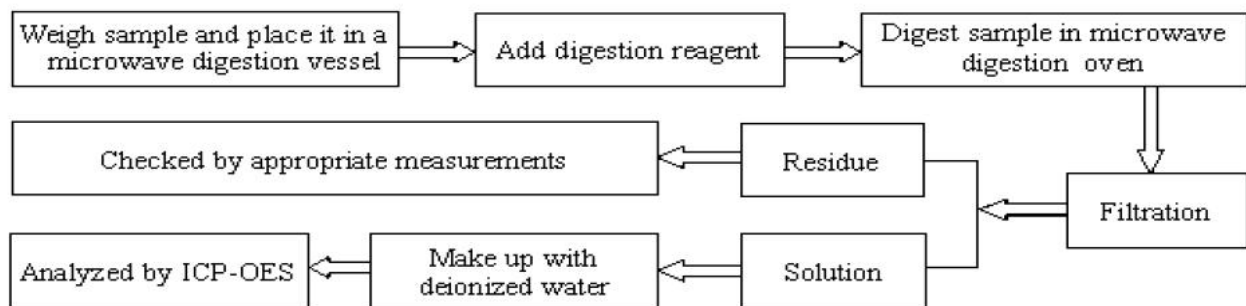
- 1 The test data and result is based on the tested sample only.
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Test process

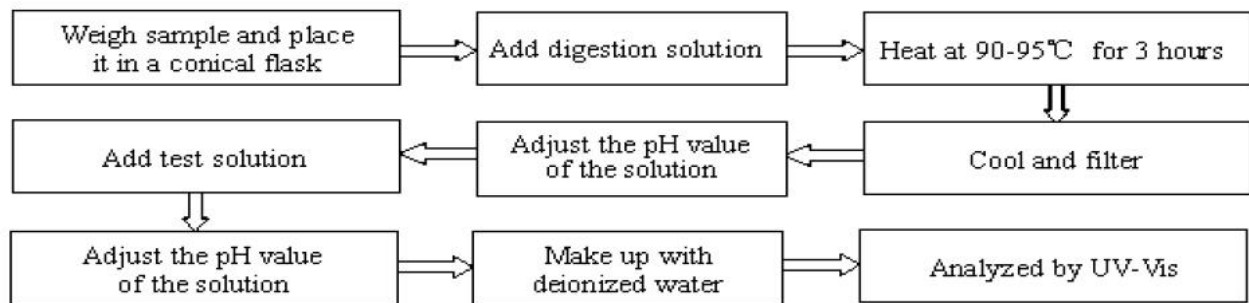
1. Lead(Pb), Cadmium(Cd)



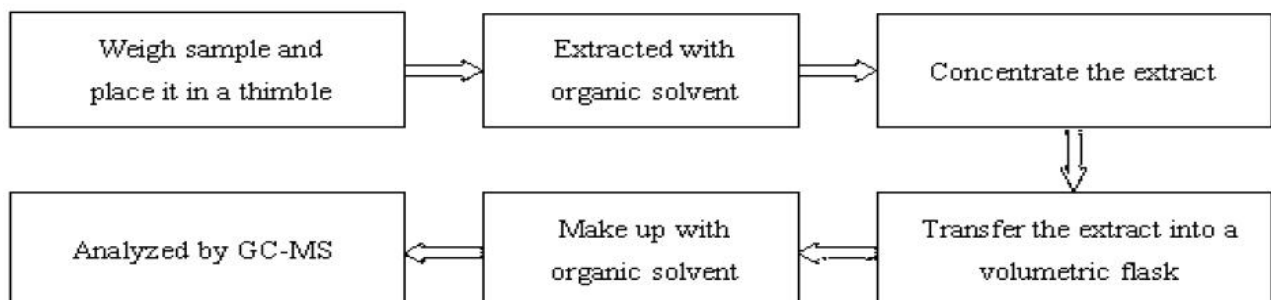
2. Mercury(Hg)



3. Hexavalent Chromium (Cr(VI))



4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers(PBDEs), HBCDD, DBP, DEHP, BBP



Method Detection Limit (MDL) in wet chemical test

Test Items	Pb	Cd	Hg	PBBs & PBDEs
Unit	mg/kg	mg/kg	mg/kg	mg/kg
MDL	2	2	2	2

Result	: Pass
Conclusion	: An independent evaluation on the above-mentioned product(s) has been conducted pursuant to 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment, and concluded that the equipment under evaluation met the legislative requirements of this directive.

Reviewed by



Test Data Summary :

SAMP LE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing(mg/kg)	Chemical testing limit(mg/kg)	Conclusion (P/F)
1	E14 Lamp cap	Cd	P	N.D.	< 100	P
		Cr	P	N.D.	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	/	< 1000	P
		PBDEs	D	/	< 1000	P
		HBCDD	D	/	< 1000	P
		DEHP	D	/	< 1000	P
		DBP	D	/	< 1000	P
		BBP	D	/	< 1000	P
2	LED lampshade	Cd	P		< 100	P
		Cr	P	/	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	N.D.	< 1000	P
		PBDEs	D	N.D.	< 1000	P
		HBCDD	D	N.D.	< 1000	P
		DEHP	D	N.D.	< 1000	P
		DBP	D	N.D.	< 1000	P
		BBP	D	N.D.	< 1000	P
3	Ceram enclosure	Cd	P	N.D.	< 100	P
		Cr	P	/	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	N.D.	< 1000	P
		PBDEs	D	N.D.	< 1000	P
		HBCDD	D	N.D.	< 1000	P
		DEHP	D	N.D.	< 1000	P
		DBP	D	N.D.	< 1000	P
		BBP	D	N.D.	< 1000	P
4	Lamp base	Cd	P	N.D.	< 100	P
		Cr	P	/	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	N.D.	< 1000	P

		PBDEs	D	N.D.	< 1000	P
		HBCDD	D	N.D.	< 1000	P
		DEHP	D	N.D.	< 1000	P
		DBP	D	N.D.	< 1000	P
		BBP	D	N.D.	< 1000	P

SAMP LE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing(mg/kg)	Chemical testing limit(mg/kg)	Conclusion (P/F)
5	Internal wire	Cd	P	N.D.	< 100	P
		Cr	P	/	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	N.D.	< 1000	P
		PBDEs	D	N.D.	< 1000	P
		HBCDD	D	N.D.	< 1000	P
		DEHP	D	N.D.	< 1000	P
		DBP	D	N.D.	< 1000	P
		BBP	D	N.D.	< 1000	P
6	Aluminium base	Cd	P	N.D.	< 100	P
		Cr	P	/	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	N.D.	< 1000	P
		PBDEs	D	N.D.	< 1000	P
		HBCDD	D	N.D.	< 1000	P
		DEHP	D	N.D.	< 1000	P
		DBP	D	N.D.	< 1000	P
		BBP	D	N.D.	< 1000	P
7	Glue	Cd	P	N.D.	< 100	P
		Cr	P	/	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	N.D.	< 1000	P
		PBDEs	D	N.D.	< 1000	P
		HBCDD	D	N.D.	< 1000	P
		DEHP	D	N.D.	< 1000	P
		DBP	D	N.D.	< 1000	P
		BBP	D	N.D.	< 1000	P
8	Rectifier	Cd	P	N.D.	< 100	P
		Cr	P	/	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	N.D.	< 1000	P
		PBDEs	D	N.D.	< 1000	P



Report Reference No.: J02.06.0181R

		HBCDD	D	N.D.	< 1000	P
		DEHP	D	N.D.	< 1000	P
		DBP	D	N.D.	< 1000	P
		BBP	D	N.D.	< 1000	P

SAMP LE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing(mg/kg)	Chemical testing limit(mg/kg)	Conclusion (P/F)
9	E-Capacitor	Cd	P	N.D.	< 100	P
		Cr	P	/	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	N.D.	< 1000	P
		PBDEs	D	N.D.	< 1000	P
		HBCDD	D	N.D.	< 1000	P
		DEHP	D	N.D.	< 1000	P
		DBP	D	N.D.	< 1000	P
		BBP	D	N.D.	< 1000	P
10	SMD rectifier	Cd	P	N.D.	< 100	P
		Cr	P	/	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	N.D.	< 1000	P
		PBDEs	D	N.D.	< 1000	P
		HBCDD	D	N.D.	< 1000	P
		DEHP	D	N.D.	< 1000	P
		DBP	D	N.D.	< 1000	P
		BBP	D	N.D.	< 1000	P
11	Diode	Cd	P	N.D.	< 100	P
		Cr	P	/	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	N.D.	< 1000	P
		PBDEs	D	N.D.	< 1000	P
		HBCDD	D	N.D.	< 1000	P
		DEHP	D	N.D.	< 1000	P
		DBP	D	N.D.	< 1000	P
		BBP	D	N.D.	< 1000	P
12	LED body	Cd	P	N.D.	< 100	P
		Cr	P	/	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	N.D.	< 1000	P
		PBDEs	D	N.D.	< 1000	P



Report Reference No.: J02.06.0181R

		HBCDD	D	N.D.	< 1000	P
		DEHP	D	N.D.	< 1000	P
		DBP	D	N.D.	< 1000	P
		BBP	D	N.D.	< 1000	P

SAMP LE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing(mg/kg)	Chemical testing limit(mg/kg)	Conclusion (P/F)
13	Soldering tin	Cd	P	N.D.	< 100	P
		Cr	P	N.D.	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	/	< 1000	P
		PBDEs	D	/	< 1000	P
		HBCDD	D	/	< 1000	P
		DEHP	D	/	< 1000	P
		DBP	D	/	< 1000	P
		BBP	D	/	< 1000	P
14	SMD IC	Cd	P	N.D.	< 100	P
		Cr	P	/	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	N.D.	< 1000	P
		PBDEs	D	N.D.	< 1000	P
		HBCDD	D	N.D.	< 1000	P
		DEHP	D	N.D.	< 1000	P
		DBP	D	N.D.	< 1000	P
		BBP	D	N.D.	< 1000	P
15	SMD Diode	Cd	P	N.D.	< 100	P
		Cr	P	/	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	N.D.	< 1000	P
		PBDEs	D	N.D.	< 1000	P
		HBCDD	D	N.D.	< 1000	P
		DEHP	D	N.D.	< 1000	P
		DBP	D	N.D.	< 1000	P
		BBP	D	N.D.	< 1000	P
16	Plastic Enclosure	Cd	P	N.D.	< 100	P
		Cr	P	/	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	N.D.	< 1000	P
		PBDEs	D	N.D.	< 1000	P



Report Reference No.: J02.06.0181R

		HBCDD	D	N.D.	< 1000	P
		DEHP	D	N.D.	< 1000	P
		DBP	D	N.D.	< 1000	P
		BBP	D	N.D.	< 1000	P

SAMP LE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing(mg/kg)	Chemical testing limit(mg/kg)	Conclusion (P/F)
17	Electromagnetic Wire	Cd	P	N.D.	< 100	P
		Cr	P	N.D.	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	/	< 1000	P
		PBDEs	D	/	< 1000	P
		HBCDD	D	/	< 1000	P
		DEHP	D	/	< 1000	P
		DBP	D	/	< 1000	P
		BBP	D	/	< 1000	P
18	Fuse	Cd	P	N.D.	< 100	P
		Cr	P	/	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	N.D.	< 1000	P
		PBDEs	D	N.D.	< 1000	P
		HBCDD	D	N.D.	< 1000	P
		DEHP	D	N.D.	< 1000	P
		DBP	D	N.D.	< 1000	P
		BBP	D	N.D.	< 1000	P
19	Varistor	Cd	P	N.D.	< 100	P
		Cr	P	/	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	N.D.	< 1000	P
		PBDEs	D	N.D.	< 1000	P
		HBCDD	D	N.D.	< 1000	P
		DEHP	D	N.D.	< 1000	P
		DBP	D	N.D.	< 1000	P
		BBP	D	N.D.	< 1000	P
20	Insulation Tape	Cd	P	N.D.	< 100	P
		Cr	P	/	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	N.D.	< 1000	P
		PBDEs	D	N.D.	< 1000	P



Report Reference No.: J02.06.0181R

		HBCDD	D	N.D.	< 1000	P
		DEHP	D	N.D.	< 1000	P
		DBP	D	N.D.	< 1000	P
		BBP	D	N.D.	< 1000	P

SAMP LE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing(mg/kg)	Chemical testing limit(mg/kg)	Conclusion (P/F)
21	Metal Part	Cd	P	N.D.	< 100	P
		Cr	P	N.D.	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	/	< 1000	P
		PBDEs	D	/	< 1000	P
		HBCDD	D	/	< 1000	P
		DEHP	D	/	< 1000	P
		DBP	D	/	< 1000	P
		BBP	D	/	< 1000	P
22	Heat sink	Cd	P	N.D.	< 100	P
		Cr	P	N.D.	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	/	< 1000	P
		PBDEs	D	/	< 1000	P
		HBCDD	D	/	< 1000	P
		DEHP	D	/	< 1000	P
		DBP	D	/	< 1000	P
		BBP	D	/	< 1000	P
23	Screw	Cd	P	N.D.	< 100	P
		Cr	P	N.D.	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	/	< 1000	P
		PBDEs	D	/	< 1000	P
		HBCDD	D	/	< 1000	P
		DEHP	D	/	< 1000	P
		DBP	D	/	< 1000	P
		BBP	D	/	< 1000	P
24	Bobbin	Cd	P	N.D.	< 100	P
		Cr	P	/	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	N.D.	< 1000	P
		PBDEs	D	N.D.	< 1000	P



Report Reference No.: J02.06.0181R

		HBCDD	D	N.D.	< 1000	P
		DEHP	D	N.D.	< 1000	P
		DBP	D	N.D.	< 1000	P
		BBP	D	N.D.	< 1000	P

SAMP LE NO.	COMPONENTS	Item	Results of EDXRF (P/F/D)	Results of testing(mg/kg)	Chemical testing limit(mg/kg)	Conclusion (P/F)
25	Core	Cd	P	N.D.	< 100	P
		Cr	P	N.D.	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	/	< 1000	P
		PBDEs	D	/	< 1000	P
		HBCDD	D	/	< 1000	P
		DEHP	D	/	< 1000	P
		DBP	D	/	< 1000	P
		BBP	D	/	< 1000	P
26	Varnish	Cd	P	N.D.	< 100	P
		Cr	P	/	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	N.D.	< 1000	P
		PBDEs	D	N.D.	< 1000	P
		HBCDD	D	N.D.	< 1000	P
		DEHP	D	N.D.	< 1000	P
		DBP	D	N.D.	< 1000	P
		BBP	D	N.D.	< 1000	P
27	Tube Teflon	Cd	P	N.D.	< 100	P
		Cr	P	/	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	N.D.	< 1000	P
		PBDEs	D	N.D.	< 1000	P
		HBCDD	D	N.D.	< 1000	P
		DEHP	D	N.D.	< 1000	P
		DBP	D	N.D.	< 1000	P
		BBP	D	N.D.	< 1000	P
28	Transistor	Cd	P	N.D.	< 100	P
		Cr	P	/	< 1000	P
		Hg	P	N.D.	< 1000	P
		Pb	P	N.D.	< 1000	P
		PBBs	D	N.D.	< 1000	P
		PBDEs	D	N.D.	< 1000	P



Report Reference No.: J02.06.0181R

		HBCDD	D	N.D.	< 1000	P
		DEHP	D	N.D.	< 1000	P
		DBP	D	N.D.	< 1000	P
		BBP	D	N.D.	< 1000	P

Note:

(1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

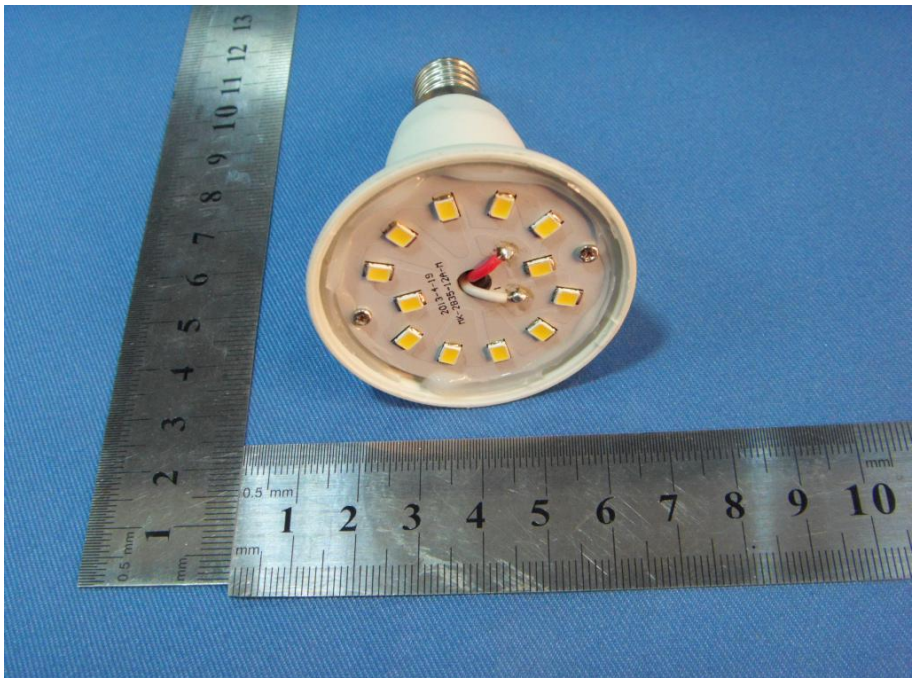
(3) N.A. = Not Analyzed

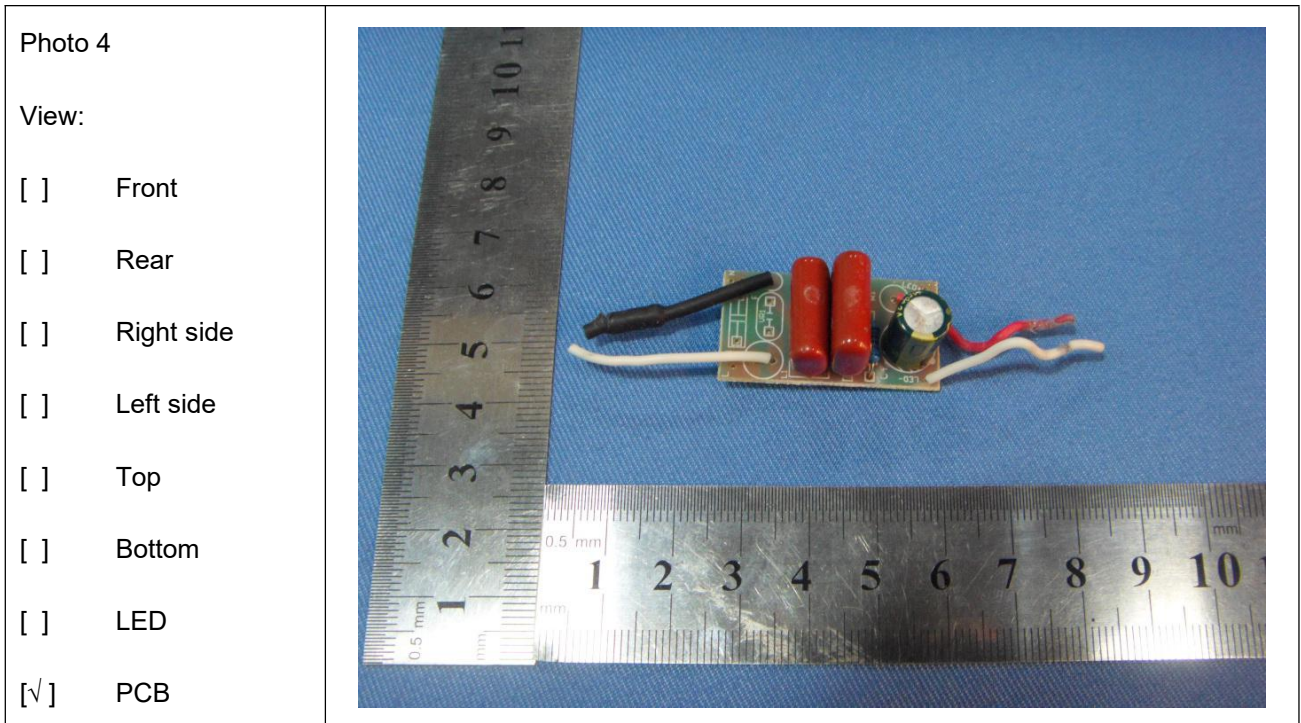
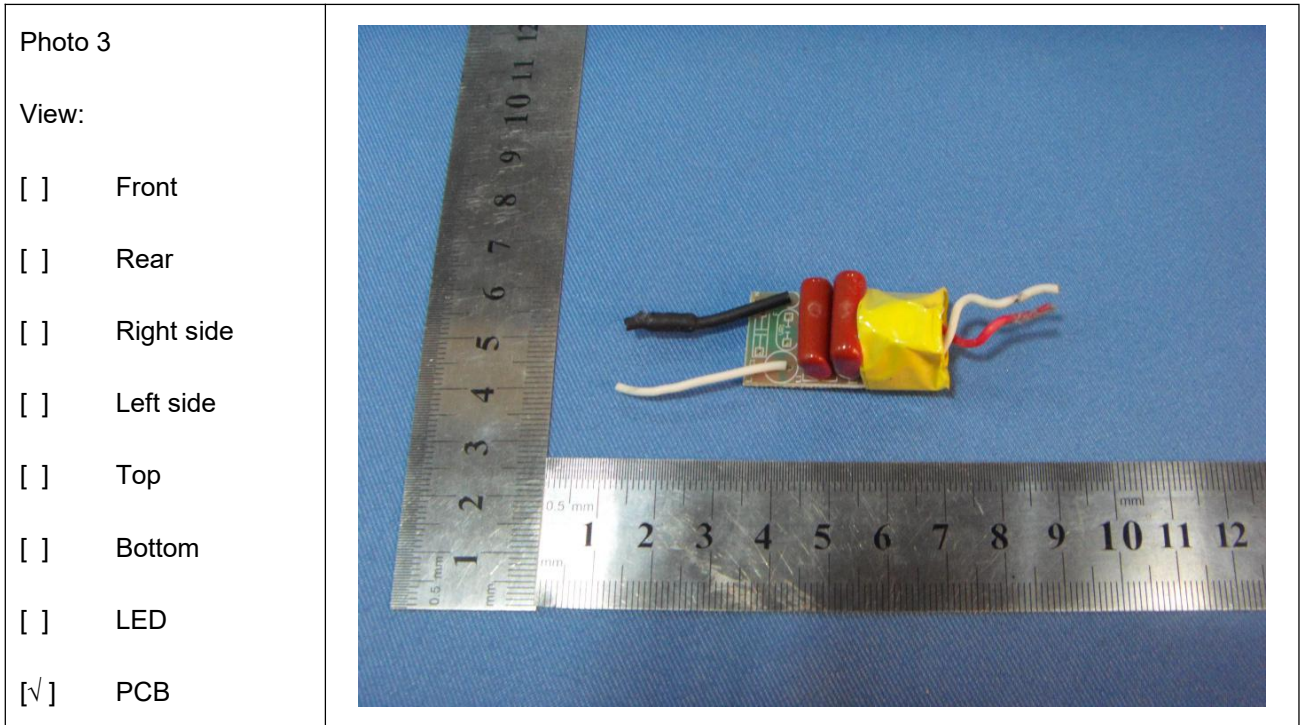
(4) Negative = the concentration of Hexavalent Chromium extracted from 50cm² sample is less than the detection limit.

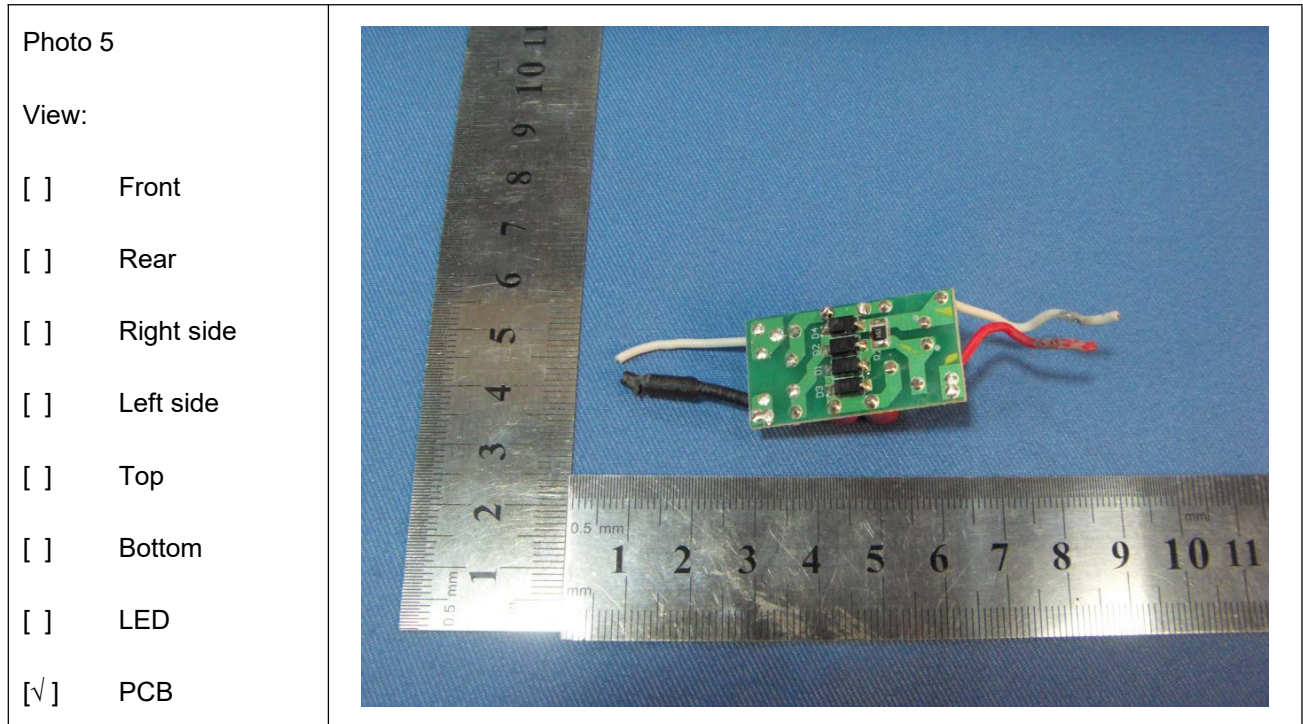
Appendix 1

Photo Documentation

<p>Photo 1</p> <p>View:</p> <p><input checked="" type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right side</p> <p><input type="checkbox"/> Left side</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p> <p><input type="checkbox"/> Internal</p>	 <p>A photograph of a white LED light bulb with a standard E27 base. The bulb is positioned on a blue fabric surface. Two metal rulers are placed around the bulb for scale: one vertically on the left and one horizontally at the bottom. The bulb's diameter is approximately 45 mm, and its height is about 55 mm. The bulb has a frosted glass top and a white plastic base with cooling fins.</p>
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<p>Photo 2</p> <p>View:</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right side</p> <p><input type="checkbox"/> Left side</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p> <p><input checked="" type="checkbox"/> Internal</p>	 <p>A photograph showing the internal view of the LED light bulb. The bulb is inverted, revealing the internal components. The base of the bulb contains several small, square yellow LED chips arranged in a circular pattern. A central red wire is visible, connected to the base. The bulb is placed on a blue fabric surface with two metal rulers for scale, similar to Photo 1. The diameter of the bulb's base is approximately 45 mm.</p>
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END.