



Report No: RoHS0911293  
File reference No: 2009-12-30

Applicant: Shenzhen Ruizi Light Science & Technology Co., Ltd.

Product: LED TUBE

Model No: PC01; PC02

Brand Name: ERVAN

Test Conclusion: The report is organized on the reports submitted by clients, the test data as followings and found in compliance with RoHS Directive.(2002/95/EC)

Approved By

White Liu

Manager

Dated: Dec. 30, 2009

**Test Conclusions appearing herein relate only to the sample tested  
The technical reports is issued errors and omissions exempt and is subject  
to withdrawal at**

**TIMEWAY TECHNOLOGY DEVELOPMENT LIMITED (HONG KONG)**

Rm. 1803, King Centre, No.23 Dundas Street, Mongkok, Kln. HONG KONG

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**1.0 General Details**

**1.1 Test Lab Details**

Name: TIMEWAY TECHNOLOGY DEVELOPMENT LIMITED (HONG KONG)  
Address: Rm. 1803, King Centre, No.23 Dundas Street, Mongkok, Kln. HONG KONG  
Tel: (852)2626 1885  
Fax: (852)3012 1422  
Test location: Timeway Ningbo Testing Laboratory  
Address: Block C of East, No. 75 Canghai Road, Ningbo Hi-tech Park, Ningbo Zhejiang

**1.2 Applicant Details**

Applicant: Shenzhen Ruizi Light Science & Technology Co. Ltd  
Address: 6F, Building A, No. 8, East of Shangxue Technology Zone, Bantian Street Office, Longgang District, Shenzhen, China  
Tel: 0755-61218896  
Fax: 0755-61242066

**1.3 Description of EUT**

Product: LED TUBE  
Manufacturer: Shenzhen Ruizi Light Science & Technology Co., Ltd.  
Address: 6F, Building A, No. 8, East of Shangxue Technology Zone, Bantian Street Office, Longgang District, Shenzhen, China  
Basic Model: PC01  
Brand Name: ERVAN  
Additional Model: PC02

**1.4 Submitted Sample**

1 Sample

**1.5 Test Time**

2009-12-05~2009-12-30

**1.6 Test Engineer**

The sample tested by

Print Name: David Guo

**1.7 Verify Engineer**

The report verified by

Print Name: White Liu

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**1.8 Possible test case verdicts:**

- N.D.= NOT DETECTED (<2ppm)
- ppm =PART PER MILLION
- MDL=Method Detection Limit
- XRF= X-ray fluorescence spectrometry

**1.9 General remark:**

The test conclusions presented in this report relate only to the object tested.  
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The Difference between models: The difference between models are appearance and power.

**2.0 Test Requested and Methods**

**2.1 Test requested:**

- 1) Determination of lead content in the submitted samples
- 2) Determination of cadmium content in the submitted samples
- 3) Determination of mercury content in the submitted samples
- 4) Determination of chromium(VI) content in the submitted samples
- 5) Determination of polybrominated biphenyls (PBB)& polybrominated diphenyl ethers (PBDE) content in the submitted samples

**2.2 Test method:**

- 1) All elements reference to IEC 62321. Analyses were performed by XRF first.
- 2) Cd-with reference to BS EN1122/ US EPA3050B/ US EPA3052. Analysis was performed by acid digestion.
- 3) Pb-with reference to US EPA3050B/ US EPA3052. Analysis was performed by acid digestion.
- 4) Hg-with reference to US EPA3052. Analysis was performed by acid digestion.
- 5) Cr<sup>6+</sup>- with reference to US EPA3060A&7196A. Analysis was performed by alkaline digestion.
- 6) PBB&PBDE-with reference to US EPA3540C. Analysis was performed by solvent extraction.

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**3.0 Data Resource**

Item	Parts Name	Organization	Issued Date	Report No.
4.1.1	SMT resistor	Intertek	2009.03.06	BKKH09019378
4.1.2	SMT diode LL4148	SGS	2009.07.29	CANEC0903867601
4.1.3	SMT voltage steady diode	SGS	2009.02.02	CANEC0900241309
4.1.4	SMT diode M7	SGS	2009.03.19	SH9037928/CHEM
4.1.5	SMT IC	SGS	2009.03.19	SH9037928/CHEM
			2009.03.19	SH9037948/CHEM
			2009.03.19	SH9037950/CHEM
4.1.6	SMT FET	SGS	2008.04.29	SH8056142/CHEM
4.1.7	NTC	SGS	2009.01.04	SH8189048/CHEM
4.1.8	VAR(压敏电阻)	SGS	2007.12.12	CE/2007/C1801
4.1.9	CBP capacitor	CTI	2008.12.13	RLSZA000099740001
4.2.1	Electrolytic capacitor	SGS	2009.04.27	SH9071287/CHEM
4.2.2	X capacitor	SGS	2009.04.22	CE/2009/44046
4.2.3	Fuse	SGS	2009.03.23	CANEC0901211101
4.2.4	Inductor	SGS	2009.07.01	CE/2009/60329A
4.2.5	Transformer	SGS	2008.03.13	GZ0803035312/CHEM
4.2.6	PCB	SGS	2009.02.20	SH9017555/CHEM
4.2.7	Magnetism bead	SGS	2009.04.01	CANEC0901456902
4.2.8	SMT capacitor	CTI	2008.05.14	FSR0805143879101
4.2.9	Print ink on PCB	CTI	2009.02.09	FSR090206132303-A
				FSR090206132305
				FSR090206132304

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## 4.0 Test Conclusions

4.1.1 SMT resistor			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr <sup>6+</sup>	N.D.	1000ppm	
PBBs	--	--	
Bromobiphenyl	N.D.	1000ppm	
Dibromobiphenyl	N.D.	1000ppm	
Tribromobiphenyl	N.D.	1000ppm	
Tetrabromobiphenyl	N.D.	1000ppm	
Pentabromobiphenyl	N.D.	1000ppm	
Hexabromobiphenyl	N.D.	1000ppm	
Heptabromobiphenyl	N.D.	1000ppm	
Octabromobiphenyl	N.D.	1000ppm	
Nonabromobiphenyl	N.D.	1000ppm	
Decabromobiphenyl	N.D.	1000ppm	
PBDEs	--	--	
Bromodiphenyl ether	N.D.	1000ppm	
Dibromodiphenyl ether	N.D.	1000ppm	
Tribromodiphenyl ether	N.D.	1000ppm	
Tetrabromodiphenyl ether	N.D.	1000ppm	
Pentabromodiphenyl ether	N.D.	1000ppm	
Hexabromodiphenyl ether	N.D.	1000ppm	
Heptabromodiphenyl ether	N.D.	1000ppm	
Octabromodiphenyl ether	N.D.	1000ppm	
Nonabromodiphenyl ether	N.D.	1000ppm	
Decabromodiphenyl ether	N.D.	1000ppm	


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<b>4.1.2 SMT diode LL4148</b>			
Testing item	Test Results	Limit	Photo
Pb	31ppm	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr <sup>6+</sup>	N.D.	1000ppm	
PBBs	--	--	
Bromobiphenyl	N.D.	1000ppm	
Dibromobiphenyl	N.D.	1000ppm	
Tribromobiphenyl	N.D.	1000ppm	
Tetrabromobiphenyl	N.D.	1000ppm	
Pentabromobiphenyl	N.D.	1000ppm	
Hexabromobiphenyl	N.D.	1000ppm	
Heptabromobiphenyl	N.D.	1000ppm	
Octabromobiphenyl	N.D.	1000ppm	
Nonabromobiphenyl	N.D.	1000ppm	
Decabromobiphenyl	N.D.	1000ppm	
PBDEs	--	--	
Bromodiphenyl ether	N.D.	1000ppm	
Dibromodiphenyl ether	N.D.	1000ppm	
Tribromodiphenyl ether	N.D.	1000ppm	
Tetrabromodiphenyl ether	N.D.	1000ppm	
Pentabromodiphenyl ether	N.D.	1000ppm	
Hexabromodiphenyl ether	N.D.	1000ppm	
Heptabromodiphenyl ether	N.D.	1000ppm	
Octabromodiphenyl ether	N.D.	1000ppm	
Nonabromodiphenyl ether	N.D.	1000ppm	
Decabromodiphenyl ether	N.D.	1000ppm	


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4.1.3 SMT voltage steady diode			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr <sup>6+</sup>	N.D.	1000ppm	
PBBs	--	--	
Bromobiphenyl	N.D.	1000ppm	
Dibromobiphenyl	N.D.	1000ppm	
Tribromobiphenyl	N.D.	1000ppm	
Tetrabromobiphenyl	N.D.	1000ppm	
Pentabromobiphenyl	N.D.	1000ppm	
Hexabromobiphenyl	N.D.	1000ppm	
Heptabromobiphenyl	N.D.	1000ppm	
Octabromobiphenyl	N.D.	1000ppm	
Nonabromobiphenyl	N.D.	1000ppm	
Decabromobiphenyl	N.D.	1000ppm	
PBDEs	--	--	
Bromodiphenyl ether	N.D.	1000ppm	
Dibromodiphenyl ether	N.D.	1000ppm	
Tribromodiphenyl ether	N.D.	1000ppm	
Tetrabromodiphenyl ether	N.D.	1000ppm	
Pentabromodiphenyl ether	N.D.	1000ppm	
Hexabromodiphenyl ether	N.D.	1000ppm	
Heptabromodiphenyl ether	N.D.	1000ppm	
Octabromodiphenyl ether	N.D.	1000ppm	
Nonabromodiphenyl ether	N.D.	1000ppm	
Decabromodiphenyl ether	N.D.	1000ppm	


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<b>4.1.4 SMT diode M7</b>			
Testing item	Test Results	Limit	Photo
Pb	12ppm	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr <sup>6+</sup>	N.D.	1000ppm	
PBBs	--	--	
Bromobiphenyl	N.D.	1000ppm	
Dibromobiphenyl	N.D.	1000ppm	
Tribromobiphenyl	N.D.	1000ppm	
Tetrabromobiphenyl	N.D.	1000ppm	
Pentabromobiphenyl	N.D.	1000ppm	
Hexabromobiphenyl	N.D.	1000ppm	
Heptabromobiphenyl	N.D.	1000ppm	
Octabromobiphenyl	N.D.	1000ppm	
Nonabromobiphenyl	N.D.	1000ppm	
Decabromobiphenyl	N.D.	1000ppm	
PBDEs	--	--	
Bromodiphenyl ether	N.D.	1000ppm	
Dibromodiphenyl ether	N.D.	1000ppm	
Tribromodiphenyl ether	N.D.	1000ppm	
Tetrabromodiphenyl ether	N.D.	1000ppm	
Pentabromodiphenyl ether	N.D.	1000ppm	
Hexabromodiphenyl ether	N.D.	1000ppm	
Heptabromodiphenyl ether	N.D.	1000ppm	
Octabromodiphenyl ether	N.D.	1000ppm	
Nonabromodiphenyl ether	N.D.	1000ppm	
Decabromodiphenyl ether	N.D.	1000ppm	


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4.1.5 SMT IC			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr <sup>6+</sup>	N.D.	1000ppm	
PBBs	--	--	
Bromobiphenyl	N.D.	1000ppm	
Dibromobiphenyl	N.D.	1000ppm	
Tribromobiphenyl	N.D.	1000ppm	
Tetrabromobiphenyl	N.D.	1000ppm	
Pentabromobiphenyl	N.D.	1000ppm	
Hexabromobiphenyl	N.D.	1000ppm	
Heptabromobiphenyl	N.D.	1000ppm	
Octabromobiphenyl	N.D.	1000ppm	
Nonabromobiphenyl	N.D.	1000ppm	
Decabromobiphenyl	N.D.	1000ppm	
PBDEs	--	--	
Bromodiphenyl ether	N.D.	1000ppm	
Dibromodiphenyl ether	N.D.	1000ppm	
Tribromodiphenyl ether	N.D.	1000ppm	
Tetrabromodiphenyl ether	N.D.	1000ppm	
Pentabromodiphenyl ether	N.D.	1000ppm	
Hexabromodiphenyl ether	N.D.	1000ppm	
Heptabromodiphenyl ether	N.D.	1000ppm	
Octabromodiphenyl ether	N.D.	1000ppm	
Nonabromodiphenyl ether	N.D.	1000ppm	
Decabromodiphenyl ether	N.D.	1000ppm	


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<b>4.1.6 SMT FET</b>			
Testing item	Test Results	Limit	Photo
Pb	9ppm	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr <sup>6+</sup>	N.D.	1000ppm	
PBBs	--	--	
Bromobiphenyl	N.D.	1000ppm	
Dibromobiphenyl	N.D.	1000ppm	
Tribromobiphenyl	N.D.	1000ppm	
Tetrabromobiphenyl	N.D.	1000ppm	
Pentabromobiphenyl	N.D.	1000ppm	
Hexabromobiphenyl	N.D.	1000ppm	
Heptabromobiphenyl	N.D.	1000ppm	
Octabromobiphenyl	N.D.	1000ppm	
Nonabromobiphenyl	N.D.	1000ppm	
Decabromobiphenyl	N.D.	1000ppm	
PBDEs	--	--	
Bromodiphenyl ether	N.D.	1000ppm	
Dibromodiphenyl ether	N.D.	1000ppm	
Tribromodiphenyl ether	N.D.	1000ppm	
Tetrabromodiphenyl ether	N.D.	1000ppm	
Pentabromodiphenyl ether	N.D.	1000ppm	
Hexabromodiphenyl ether	N.D.	1000ppm	
Heptabromodiphenyl ether	N.D.	1000ppm	
Octabromodiphenyl ether	N.D.	1000ppm	
Nonabromodiphenyl ether	N.D.	1000ppm	
Decabromodiphenyl ether	N.D.	1000ppm	


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4.1.7 NTC			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr <sup>6+</sup>	N.D.	1000ppm	
PBBs	--	--	
Bromobiphenyl	N.D.	1000ppm	
Dibromobiphenyl	N.D.	1000ppm	
Tribromobiphenyl	N.D.	1000ppm	
Tetrabromobiphenyl	N.D.	1000ppm	
Pentabromobiphenyl	N.D.	1000ppm	
Hexabromobiphenyl	N.D.	1000ppm	
Heptabromobiphenyl	N.D.	1000ppm	
Octabromobiphenyl	N.D.	1000ppm	
Nonabromobiphenyl	N.D.	1000ppm	
Decabromobiphenyl	N.D.	1000ppm	
PBDEs	--	--	
Bromodiphenyl ether	N.D.	1000ppm	
Dibromodiphenyl ether	N.D.	1000ppm	
Tribromodiphenyl ether	N.D.	1000ppm	
Tetrabromodiphenyl ether	N.D.	1000ppm	
Pentabromodiphenyl ether	N.D.	1000ppm	
Hexabromodiphenyl ether	N.D.	1000ppm	
Heptabromodiphenyl ether	N.D.	1000ppm	
Octabromodiphenyl ether	N.D.	1000ppm	
Nonabromodiphenyl ether	N.D.	1000ppm	
Decabromodiphenyl ether	N.D.	1000ppm	


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4.1.8 VAR			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr <sup>6+</sup>	N.D.	1000ppm	
PBBs	--	--	
Bromobiphenyl	N.D.	1000ppm	
Dibromobiphenyl	N.D.	1000ppm	
Tribromobiphenyl	N.D.	1000ppm	
Tetrabromobiphenyl	N.D.	1000ppm	
Pentabromobiphenyl	N.D.	1000ppm	
Hexabromobiphenyl	N.D.	1000ppm	
Heptabromobiphenyl	N.D.	1000ppm	
Octabromobiphenyl	N.D.	1000ppm	
Nonabromobiphenyl	N.D.	1000ppm	
Decabromobiphenyl	N.D.	1000ppm	
PBDEs	--	--	
Bromodiphenyl ether	N.D.	1000ppm	
Dibromodiphenyl ether	N.D.	1000ppm	
Tribromodiphenyl ether	N.D.	1000ppm	
Tetrabromodiphenyl ether	N.D.	1000ppm	
Pentabromodiphenyl ether	N.D.	1000ppm	
Hexabromodiphenyl ether	N.D.	1000ppm	
Heptabromodiphenyl ether	N.D.	1000ppm	
Octabromodiphenyl ether	N.D.	1000ppm	
Nonabromodiphenyl ether	N.D.	1000ppm	
Decabromodiphenyl ether	N.D.	1000ppm	


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<b>4.1.9 CBP capacitor</b>			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr <sup>6+</sup>	N.D.	1000ppm	
PBBs	--	--	
Bromobiphenyl	N.D.	1000ppm	
Dibromobiphenyl	N.D.	1000ppm	
Tribromobiphenyl	N.D.	1000ppm	
Tetrabromobiphenyl	N.D.	1000ppm	
Pentabromobiphenyl	N.D.	1000ppm	
Hexabromobiphenyl	N.D.	1000ppm	
Heptabromobiphenyl	N.D.	1000ppm	
Octabromobiphenyl	N.D.	1000ppm	
Nonabromobiphenyl	N.D.	1000ppm	
Decabromobiphenyl	N.D.	1000ppm	
PBDEs	--	--	
Bromodiphenyl ether	N.D.	1000ppm	
Dibromodiphenyl ether	N.D.	1000ppm	
Tribromodiphenyl ether	N.D.	1000ppm	
Tetrabromodiphenyl ether	N.D.	1000ppm	
Pentabromodiphenyl ether	N.D.	1000ppm	
Hexabromodiphenyl ether	N.D.	1000ppm	
Heptabromodiphenyl ether	N.D.	1000ppm	
Octabromodiphenyl ether	N.D.	1000ppm	
Nonabromodiphenyl ether	N.D.	1000ppm	
Decabromodiphenyl ether	N.D.	1000ppm	


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4.2.1 Electrolytic capacitor			
Testing item	Test Results	Limit	Photo
Pb	8ppm	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr <sup>6+</sup>	N.D.	1000ppm	
PBBs	--	--	
Bromobiphenyl	N.D.	1000ppm	
Dibromobiphenyl	N.D.	1000ppm	
Tribromobiphenyl	N.D.	1000ppm	
Tetrabromobiphenyl	N.D.	1000ppm	
Pentabromobiphenyl	N.D.	1000ppm	
Hexabromobiphenyl	N.D.	1000ppm	
Heptabromobiphenyl	N.D.	1000ppm	
Octabromobiphenyl	N.D.	1000ppm	
Nonabromobiphenyl	N.D.	1000ppm	
Decabromobiphenyl	N.D.	1000ppm	
PBDEs	--	--	
Bromodiphenyl ether	N.D.	1000ppm	
Dibromodiphenyl ether	N.D.	1000ppm	
Tribromodiphenyl ether	N.D.	1000ppm	
Tetrabromodiphenyl ether	N.D.	1000ppm	
Pentabromodiphenyl ether	N.D.	1000ppm	
Hexabromodiphenyl ether	N.D.	1000ppm	
Heptabromodiphenyl ether	N.D.	1000ppm	
Octabromodiphenyl ether	N.D.	1000ppm	
Nonabromodiphenyl ether	N.D.	1000ppm	
Decabromodiphenyl ether	N.D.	1000ppm	


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4.2.2 X capacitor			
Testing item	Test Results	Limit	Photo
Pb	19ppm	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr <sup>6+</sup>	N.D.	1000ppm	
PBBs	--	--	
Bromobiphenyl	N.D.	1000ppm	
Dibromobiphenyl	N.D.	1000ppm	
Tribromobiphenyl	N.D.	1000ppm	
Tetrabromobiphenyl	N.D.	1000ppm	
Pentabromobiphenyl	N.D.	1000ppm	
Hexabromobiphenyl	N.D.	1000ppm	
Heptabromobiphenyl	N.D.	1000ppm	
Octabromobiphenyl	N.D.	1000ppm	
Nonabromobiphenyl	N.D.	1000ppm	
Decabromobiphenyl	N.D.	1000ppm	
PBDEs	--	--	
Bromodiphenyl ether	N.D.	1000ppm	
Dibromodiphenyl ether	N.D.	1000ppm	
Tribromodiphenyl ether	N.D.	1000ppm	
Tetrabromodiphenyl ether	N.D.	1000ppm	
Pentabromodiphenyl ether	N.D.	1000ppm	
Hexabromodiphenyl ether	N.D.	1000ppm	
Heptabromodiphenyl ether	N.D.	1000ppm	
Octabromodiphenyl ether	N.D.	1000ppm	
Nonabromodiphenyl ether	N.D.	1000ppm	
Decabromodiphenyl ether	N.D.	1000ppm	


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4.2.3 Fuse			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr <sup>6+</sup>	N.D.	1000ppm	
PBBs	--	--	
Bromobiphenyl	N.D.	1000ppm	
Dibromobiphenyl	N.D.	1000ppm	
Tribromobiphenyl	N.D.	1000ppm	
Tetrabromobiphenyl	N.D.	1000ppm	
Pentabromobiphenyl	N.D.	1000ppm	
Hexabromobiphenyl	N.D.	1000ppm	
Heptabromobiphenyl	N.D.	1000ppm	
Octabromobiphenyl	N.D.	1000ppm	
Nonabromobiphenyl	N.D.	1000ppm	
Decabromobiphenyl	N.D.	1000ppm	
PBDEs	--	--	
Bromodiphenyl ether	N.D.	1000ppm	
Dibromodiphenyl ether	N.D.	1000ppm	
Tribromodiphenyl ether	N.D.	1000ppm	
Tetrabromodiphenyl ether	N.D.	1000ppm	
Pentabromodiphenyl ether	N.D.	1000ppm	
Hexabromodiphenyl ether	N.D.	1000ppm	
Heptabromodiphenyl ether	N.D.	1000ppm	
Octabromodiphenyl ether	N.D.	1000ppm	
Nonabromodiphenyl ether	N.D.	1000ppm	
Decabromodiphenyl ether	N.D.	1000ppm	


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4.2.4 Inductor			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr <sup>6+</sup>	N.D.	1000ppm	
PBBs	--	--	
Bromobiphenyl	N.D.	1000ppm	
Dibromobiphenyl	N.D.	1000ppm	
Tribromobiphenyl	N.D.	1000ppm	
Tetrabromobiphenyl	N.D.	1000ppm	
Pentabromobiphenyl	N.D.	1000ppm	
Hexabromobiphenyl	N.D.	1000ppm	
Heptabromobiphenyl	N.D.	1000ppm	
Octabromobiphenyl	N.D.	1000ppm	
Nonabromobiphenyl	N.D.	1000ppm	
Decabromobiphenyl	N.D.	1000ppm	
PBDEs	--	--	
Bromodiphenyl ether	N.D.	1000ppm	
Dibromodiphenyl ether	N.D.	1000ppm	
Tribromodiphenyl ether	N.D.	1000ppm	
Tetrabromodiphenyl ether	N.D.	1000ppm	
Pentabromodiphenyl ether	N.D.	1000ppm	
Hexabromodiphenyl ether	N.D.	1000ppm	
Heptabromodiphenyl ether	N.D.	1000ppm	
Octabromodiphenyl ether	N.D.	1000ppm	
Nonabromodiphenyl ether	N.D.	1000ppm	
Decabromodiphenyl ether	N.D.	1000ppm	


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4.2.5 Transformer			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr <sup>6+</sup>	N.D.	1000ppm	
PBBs	--	--	
Bromobiphenyl	N.D.	1000ppm	
Dibromobiphenyl	N.D.	1000ppm	
Tribromobiphenyl	N.D.	1000ppm	
Tetrabromobiphenyl	N.D.	1000ppm	
Pentabromobiphenyl	N.D.	1000ppm	
Hexabromobiphenyl	N.D.	1000ppm	
Heptabromobiphenyl	N.D.	1000ppm	
Octabromobiphenyl	N.D.	1000ppm	
Nonabromobiphenyl	N.D.	1000ppm	
Decabromobiphenyl	N.D.	1000ppm	
PBDEs	--	--	
Bromodiphenyl ether	N.D.	1000ppm	
Dibromodiphenyl ether	N.D.	1000ppm	
Tribromodiphenyl ether	N.D.	1000ppm	
Tetrabromodiphenyl ether	N.D.	1000ppm	
Pentabromodiphenyl ether	N.D.	1000ppm	
Hexabromodiphenyl ether	N.D.	1000ppm	
Heptabromodiphenyl ether	N.D.	1000ppm	
Octabromodiphenyl ether	N.D.	1000ppm	
Nonabromodiphenyl ether	N.D.	1000ppm	
Decabromodiphenyl ether	N.D.	1000ppm	


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4.2.6 PCB			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr <sup>6+</sup>	N.D.	1000ppm	
PBBs	--	--	
Bromobiphenyl	N.D.	1000ppm	
Dibromobiphenyl	N.D.	1000ppm	
Tribromobiphenyl	N.D.	1000ppm	
Tetrabromobiphenyl	N.D.	1000ppm	
Pentabromobiphenyl	N.D.	1000ppm	
Hexabromobiphenyl	N.D.	1000ppm	
Heptabromobiphenyl	N.D.	1000ppm	
Octabromobiphenyl	N.D.	1000ppm	
Nonabromobiphenyl	N.D.	1000ppm	
Decabromobiphenyl	N.D.	1000ppm	
PBDEs	--	--	
Bromodiphenyl ether	N.D.	1000ppm	
Dibromodiphenyl ether	N.D.	1000ppm	
Tribromodiphenyl ether	N.D.	1000ppm	
Tetrabromodiphenyl ether	N.D.	1000ppm	
Pentabromodiphenyl ether	N.D.	1000ppm	
Hexabromodiphenyl ether	N.D.	1000ppm	
Heptabromodiphenyl ether	N.D.	1000ppm	
Octabromodiphenyl ether	N.D.	1000ppm	
Nonabromodiphenyl ether	N.D.	1000ppm	
Decabromodiphenyl ether	N.D.	1000ppm	


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4.2.7 Magnetism bead			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr <sup>6+</sup>	N.D.	1000ppm	
PBBs	--	--	
Bromobiphenyl	N.D.	1000ppm	
Dibromobiphenyl	N.D.	1000ppm	
Tribromobiphenyl	N.D.	1000ppm	
Tetrabromobiphenyl	N.D.	1000ppm	
Pentabromobiphenyl	N.D.	1000ppm	
Hexabromobiphenyl	N.D.	1000ppm	
Heptabromobiphenyl	N.D.	1000ppm	
Octabromobiphenyl	N.D.	1000ppm	
Nonabromobiphenyl	N.D.	1000ppm	
Decabromobiphenyl	N.D.	1000ppm	
PBDEs	--	--	
Bromodiphenyl ether	N.D.	1000ppm	
Dibromodiphenyl ether	N.D.	1000ppm	
Tribromodiphenyl ether	N.D.	1000ppm	
Tetrabromodiphenyl ether	N.D.	1000ppm	
Pentabromodiphenyl ether	N.D.	1000ppm	
Hexabromodiphenyl ether	N.D.	1000ppm	
Heptabromodiphenyl ether	N.D.	1000ppm	
Octabromodiphenyl ether	N.D.	1000ppm	
Nonabromodiphenyl ether	N.D.	1000ppm	
Decabromodiphenyl ether	N.D.	1000ppm	


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4.2.8 SMT capacitor			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr <sup>6+</sup>	N.D.	1000ppm	
PBBs	--	--	
Bromobiphenyl	N.D.	1000ppm	
Dibromobiphenyl	N.D.	1000ppm	
Tribromobiphenyl	N.D.	1000ppm	
Tetrabromobiphenyl	N.D.	1000ppm	
Pentabromobiphenyl	N.D.	1000ppm	
Hexabromobiphenyl	N.D.	1000ppm	
Heptabromobiphenyl	N.D.	1000ppm	
Octabromobiphenyl	N.D.	1000ppm	
Nonabromobiphenyl	N.D.	1000ppm	
Decabromobiphenyl	N.D.	1000ppm	
PBDEs	--	--	
Bromodiphenyl ether	N.D.	1000ppm	
Dibromodiphenyl ether	N.D.	1000ppm	
Tribromodiphenyl ether	N.D.	1000ppm	
Tetrabromodiphenyl ether	N.D.	1000ppm	
Pentabromodiphenyl ether	N.D.	1000ppm	
Hexabromodiphenyl ether	N.D.	1000ppm	
Heptabromodiphenyl ether	N.D.	1000ppm	
Octabromodiphenyl ether	N.D.	1000ppm	
Nonabromodiphenyl ether	N.D.	1000ppm	
Decabromodiphenyl ether	N.D.	1000ppm	


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<b>4.2.9 Print ink on PCB</b>			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr <sup>6+</sup>	N.D.	1000ppm	
PBBs	--	--	
Bromobiphenyl	Pass	1000ppm	
Dibromobiphenyl	N.D.	1000ppm	
Tribromobiphenyl	N.D.	1000ppm	
Tetrabromobiphenyl	N.D.	1000ppm	
Pentabromobiphenyl	N.D.	1000ppm	
Hexabromobiphenyl	N.D.	1000ppm	
Heptabromobiphenyl	N.D.	1000ppm	
Octabromobiphenyl	N.D.	1000ppm	
Nonabromobiphenyl	N.D.	1000ppm	
Decabromobiphenyl	N.D.	1000ppm	
PBDEs	--	--	
Bromodiphenyl ether	N.D.	1000ppm	
Dibromodiphenyl ether	N.D.	1000ppm	
Tribromodiphenyl ether	N.D.	1000ppm	
Tetrabromodiphenyl ether	N.D.	1000ppm	
Pentabromodiphenyl ether	N.D.	1000ppm	
Hexabromodiphenyl ether	N.D.	1000ppm	
Heptabromodiphenyl ether	N.D.	1000ppm	
Octabromodiphenyl ether	N.D.	1000ppm	
Nonabromodiphenyl ether	N.D.	1000ppm	
Decabromodiphenyl ether	N.D.	1000ppm	

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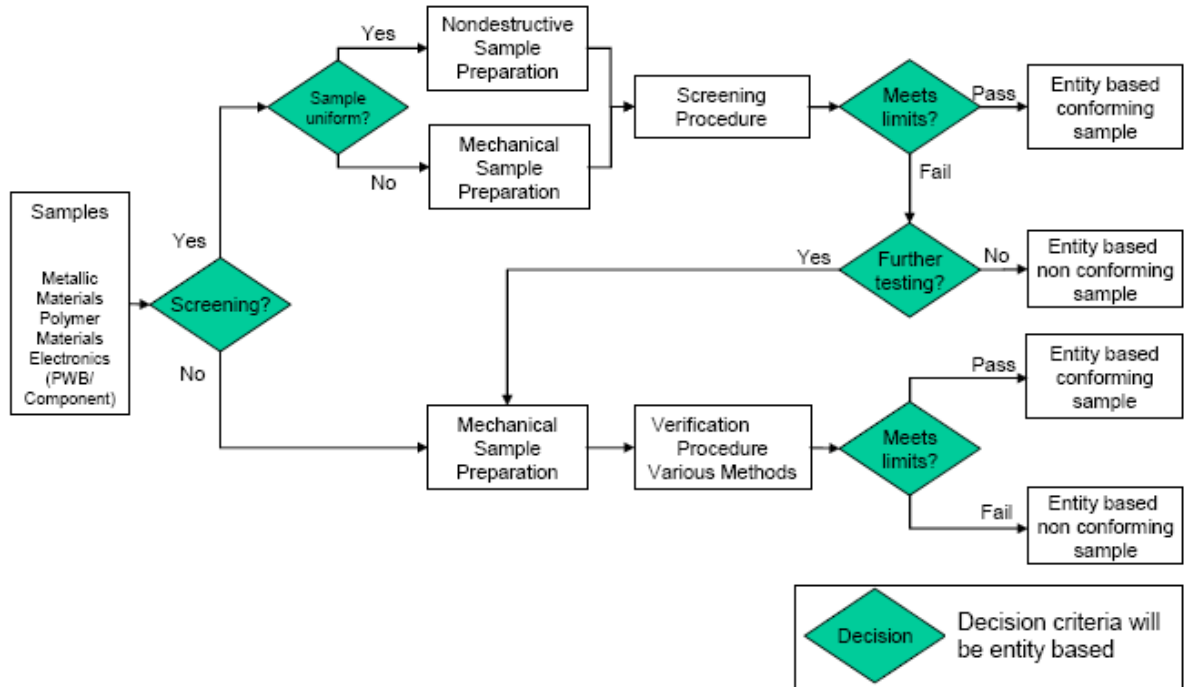
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## 5.0 Appended Figure and Table

Flowchart of the test methods:



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**Table 1. Screening limits in mg/kg (ppm) for regulated elements in various matrices:**

Element	Polymers	Metals	Composite Material
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1\ 300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1\ 300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1\ 500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1\ 300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1\ 300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1\ 500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$		$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

- A common set of limits for the substances of interest have been assumed for the purposes of this example. The limits are 100 mg/kg for Cd and 1 000 mg/kg for Pb, Hg and Cr. The limit for Br is calculated based on the stoichiometry of Br in the most common congeners of PBB/PBDE and their limit of 1 000 mg/kg. The “action levels” for this method have been set for the purpose of this screening procedure with a 30 % margin of safety (50 % for composite materials).
- A “BELOW LIMIT” (BL) or “OVER LIMIT” (OL) determination will be set at 30 % (50 % for composite materials) less than or greater than the limit, respectively. The margins of safety have been agreed upon based on the experience of many experts and practitioners in the industry. Further explanation of this approach to estimating uncertainty (translated here as “margin of safety”) can be found in 6.6 c).
- The symbol “X” marks the region where further investigation is necessary.
- The term “3σ” expresses the repeatability of the analyser at the action level, where σ is determined as the standard deviation of a typical sample with the content of the regulated substances near the limits of interest (see spectrometer performance verification test 6.8.4.6). The repeatability is expressed in terms of “3σ” 99,7 % confidence level rather than the more common “2σ” 95 % confidence level. The 99,7 % confidence level will allow the method to produce fewer “false negative errors”.

**Table 2. the values of “σ” for each elements:**

Element	the values of “σ” (ppm)
Cd	10
Pb	10
Hg	15
Cr	15
Br	20

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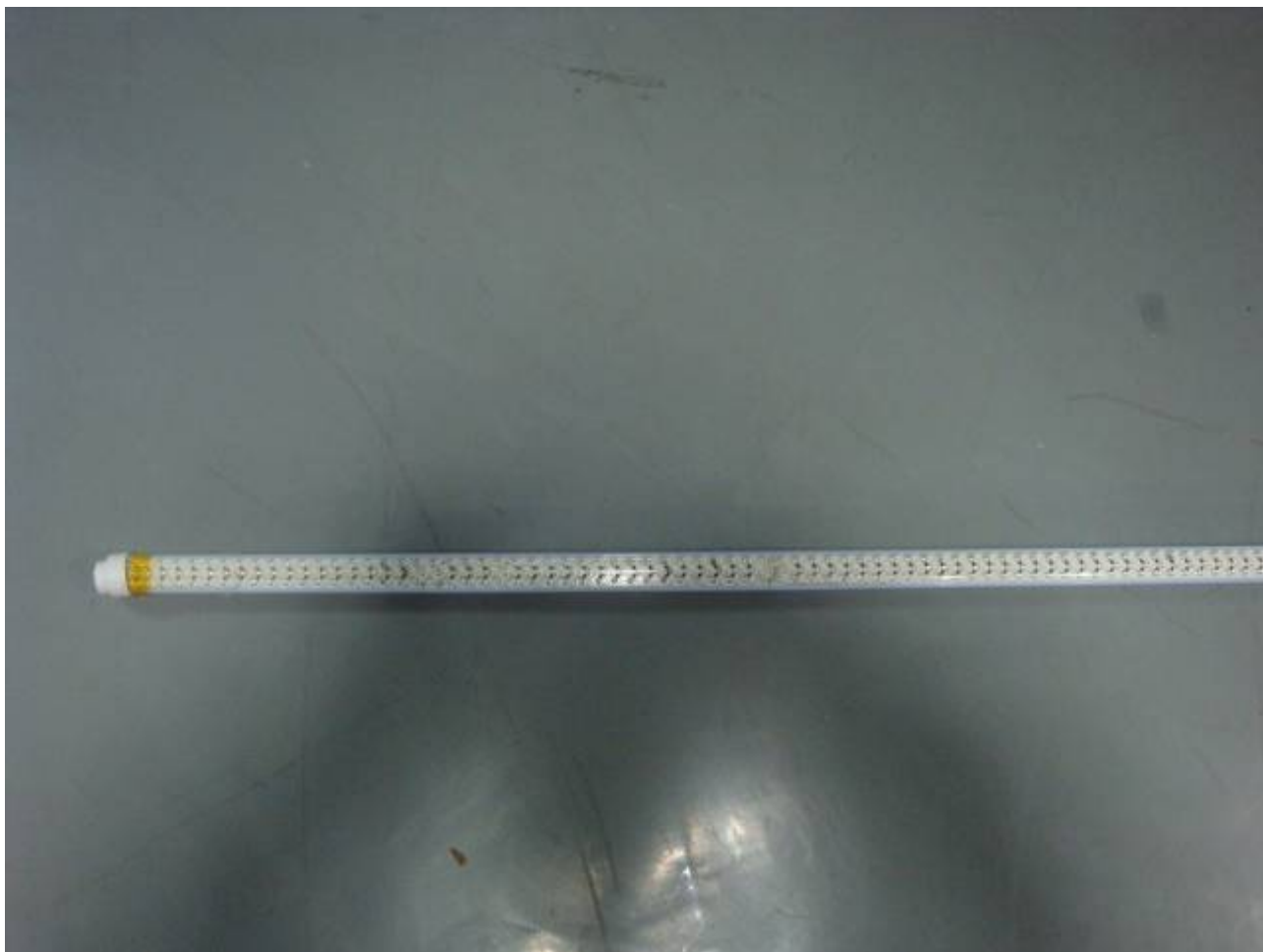
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Appendix

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Photo of the product (PC01)



**End of the report**

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