



## Test Report

No.: DGC13042628VE

Date: May 03, 2024

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**Applicant:** GuangDong Queendom Electronics Co.,Ltd

**Address:** Fuming Road, The 3rd Industrial Area of Dicong Gaobu Town Dongguan city, Guangdong Province.China

**Manufacturer:** GuangDong Queendom Electronics Co.,Ltd

**Address:** Fuming Road, The 3rd Industrial Area of Dicong Gaobu Town Dongguan city, Guangdong Province.China

**Sample Name:** LED Light Emitting Diode

**Model No.:** /

**Test period:** April 26, 2023 to May 03, 2024

**Test requested:** In accordance with RoHS Directive 2011/65/EU.

**Test method:** With reference to IEC 62321-2008 Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.

Test Items	Pretreatment Method	Measuring Instrument	MDL
Lead (Pb)	IEC 62321: Section 8	ICP-OES	2mg/kg
Cadmium (Cd)	IEC 62321: Section 8	ICP-OES	2mg/kg
Mercury (Hg)	IEC 62321: Section 7	ICP-OES	2mg/kg
Chromium (Cr <sup>6+</sup> )	IEC 62321: Annex C	UV-Vis	2mg/kg
PBBs/PBDEs	IEC 62321: Annex A	GC-MS	5mg/kg

**Test result:** Please refer to next page.

Written by: Vendy Checked by: Ken

Approved by: Cake



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**Accurate Technology Co., Ltd**

Address: No.345, Baima Block, Guantai Road, Nancheng District, Dongguan, Guangdong, China

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## Test results(Unit: mg/kg):

Test Items	Results	RoHS Limit
	No.1	
Cadmium (Cd)	N.D.	100
Lead (Pb)	N.D.	1000
Mercury (Hg)	N.D.	1000
Chromium (Cr <sup>6+</sup> ) by Alkaline extraction	N.D.	1000
<b>Sum of PBBs</b>	N.D.	1000
Monobromobiphenyl	N.D.	---
Dibromobiphenyl	N.D.	---
Tribromobiphenyl	N.D.	---
Tetrabromobiphenyl	N.D.	---
Pentabromobiphenyl	N.D.	---
Hexabromobiphenyl	N.D.	---
Heptabromobiphenyl	N.D.	---
Octabromobiphenyl	N.D.	---
Nonabromobiphenyl	N.D.	---
Decabromobiphenyl	N.D.	---
<b>Sum of PBDEs</b>	N.D.	1000
Monobromobiphenyl ether	N.D.	---
Dibromobiphenyl ether	N.D.	---
Tribromobiphenyl ether	N.D.	---
Tetrabromobiphenyl ether	N.D.	---
Pentabromobiphenyl ether	N.D.	---
Hexabromobiphenyl ether	N.D.	---
Heptabromobiphenyl ether	N.D.	---
Octabromobiphenyl ether	N.D.	---
Nonabromobiphenyl ether	N.D.	---
Decabromobiphenyl ether	N.D.	---

## Test Part Description:

No.1: Light Emitting Diode (mixture test)

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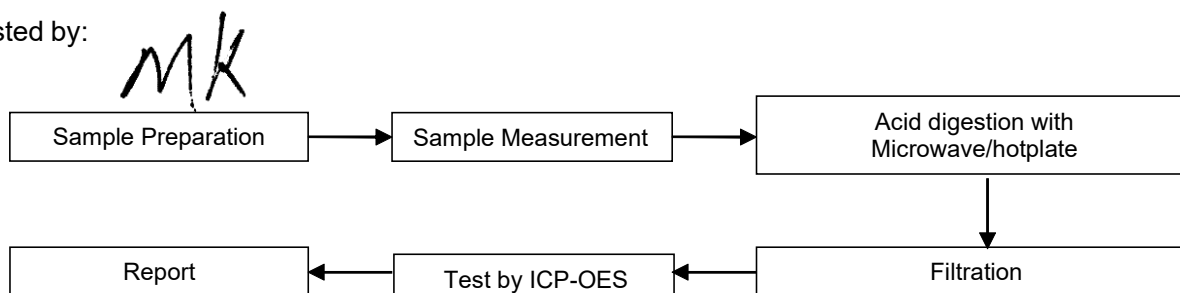
**Note:**

- (1) mg/kg=ppm=0.0001%;
- (2) N.D.=Not Detected(<MDL);
- (3) MDL=Method Detection Limit;
- (4) "---"=Not Conducted;
- (5) Specimens, which requested to determine Cadmium, Mercury and Lead Content, have been dissolved completely.

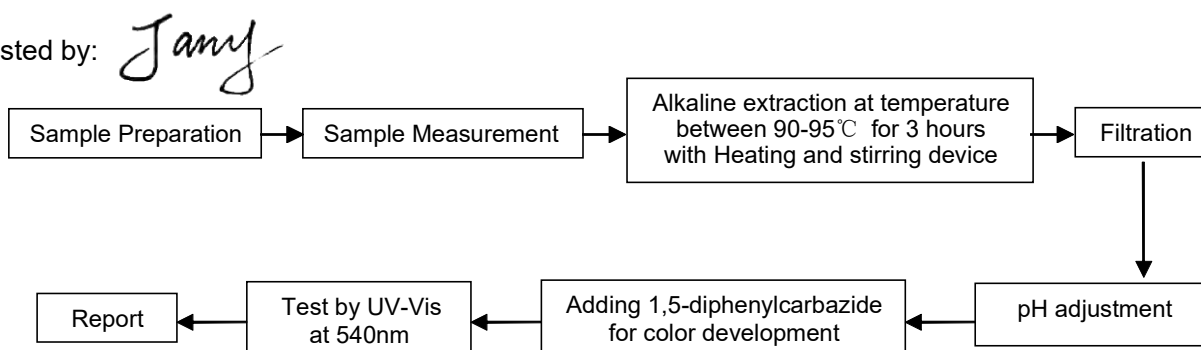
**Operation Flow Chart:**

1. To Determine Lead, Cadmium, Mercury:

Tested by:

2. To Determine Cr<sup>6+</sup>:

Tested by:



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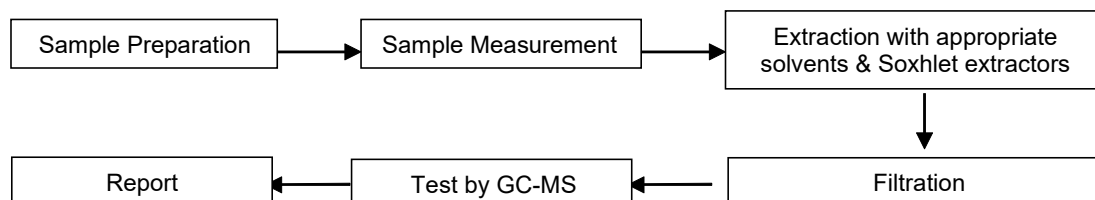
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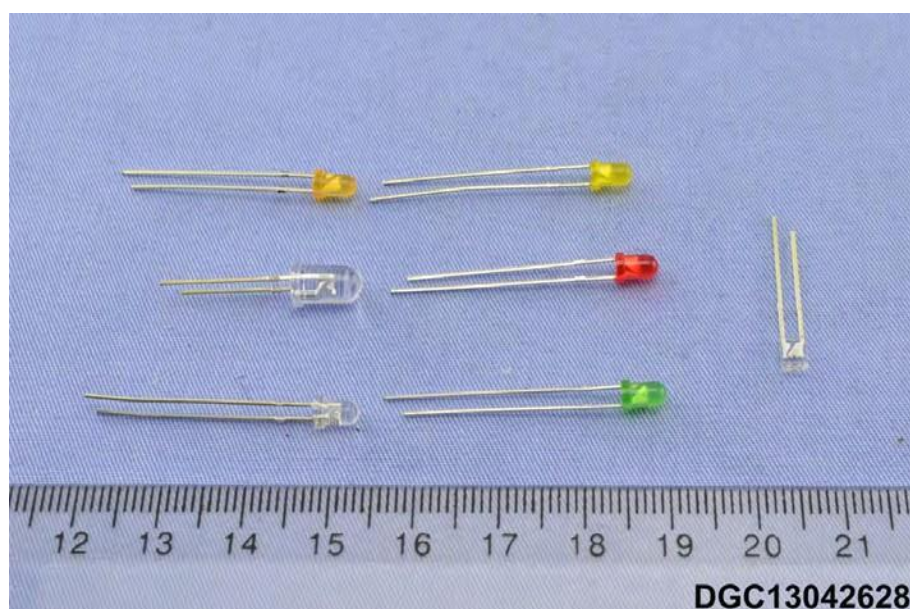
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## 3. To Determine PBBs/PBDEs:

Tested by: *lin*



## Photograph of Sample:



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

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