



(No.): ETR24505664

(Date): 14-Jun-2024

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# Test Report

Product/component Sample description	INDICATING LAMP
Quantity (numbers or weight)	0.045 g
EVERLIGHT P/N	SMD A TYPE SERIES, Sampling Product : PD70-01B/S57/TR7
Product Lot No	Y240513AT072G
Country of Origin	China
TEST INFORMATION	

(Sample Submitted By) : (EVERLIGHT ELECTRONICS CO., LTD.)

-----  
(Sample Receiving Date) :

(Testing Period) :

:

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# Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)  
6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

(Test Requested) : (1) RoHS 2011/65/EU Annex II (EU) 2015/863  
, DBP, BBP, DEHP, DIBP (As specified  
by client, with reference to RoHS 2011/65/EU Annex II and amending Directive  
(EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP,  
BBP, DEHP, DIBP contents in the submitted sample(s).)

(2) PAHs (As specified by client, to test PAHs and  
other item(s).)

(Conclusion) : (1) , DBP, BBP,  
DEHP, DIBP RoHS 2011/65/EU Annex II (EU) 2015/863  
(Based on the performed tests on submitted sample(s), the test  
results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP  
comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II  
to Directive 2011/65/EU.)

(2) (AfPS) GS  
PAHs 3 (Based upon the performed tests on the  
submitted sample(s), the test results of PAHs (15 items) comply with the limits of  
PAHs requirement (Category 3) Other consumer products as set by German  
Committee on Product Safety (AfPS) GS PAHs.)

### (Test Part Description)

- No.1 : (BODY)
- No.2 : (PLATING LAYER OF SILVER COLORED METAL PIN)
- No.3 : (BASE MATERIAL OF SILVER COLORED METAL PIN)
- No.4 : ( ) (SILVER COLORED METAL PIN (INCLUDING THE PLATING LAYER))

### (Test Results)

(Test Items)	(Method)	(Unit)	MDL	(Result)			(Limit)
				No.1	No.2	No.3	
(Cd) (Cadmium (Cd))	IEC 62321-5: 2013	mg/kg	2	n.d.	---	---	100
(Pb) (Lead (Pb))	(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	---	---	1000

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(Test Items)	(Method)	(Unit)	MDL	(Result)			(Limit)
				No.1	No.2	No.3	
(Hg) (Mercury (Hg))	IEC 62321-4: 2013+ AMD1: 2017 (With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	---	---	1000
Cr(VI) (Hexavalent Chromium Cr(VI))	IEC 62321-7-2: 2017 - (With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.	---	---	1000
(Monobromobiphenyl)	IEC 62321-6: 2015 / (With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.)	mg/kg	5	n.d.	---	---	-
(Dibromobiphenyl)		mg/kg	5	n.d.	---	---	-
(Tribromobiphenyl)		mg/kg	5	n.d.	---	---	-
(Tetrabromobiphenyl)		mg/kg	5	n.d.	---	---	-
(Pentabromobiphenyl)		mg/kg	5	n.d.	---	---	-
(Hexabromobiphenyl)		mg/kg	5	n.d.	---	---	-
(Heptabromobiphenyl)		mg/kg	5	n.d.	---	---	-
(Octabromobiphenyl)		mg/kg	5	n.d.	---	---	-
(Nonabromobiphenyl)		mg/kg	5	n.d.	---	---	-
(Decabromobiphenyl)		mg/kg	5	n.d.	---	---	-
(Sum of PBBs)		mg/kg	-	n.d.	---	---	1000
(Monobromodiphenyl ether)		mg/kg	5	n.d.	---	---	-
(Dibromodiphenyl ether)		mg/kg	5	n.d.	---	---	-
(Tribromodiphenyl ether)		mg/kg	5	n.d.	---	---	-
(Tetrabromodiphenyl ether)		mg/kg	5	n.d.	---	---	-
(Pentabromodiphenyl ether)		mg/kg	5	n.d.	---	---	-
(Hexabromodiphenyl ether)		mg/kg	5	n.d.	---	---	-
(Heptabromodiphenyl ether)		mg/kg	5	n.d.	---	---	-
(Octabromodiphenyl ether)		mg/kg	5	n.d.	---	---	-
(Nonabromodiphenyl ether)		mg/kg	5	n.d.	---	---	-
(Decabromodiphenyl ether)	mg/kg	5	n.d.	---	---	-	
(Sum of PBDEs)	mg/kg	-	n.d.	---	---	1000	

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# Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)

6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

(Test Items)	(Method)	(Unit)	MDL	(Result)			(Limit)
				No.1	No.2	No.3	
(BBP) (Butyl benzyl phthalate (BBP))	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	---	---	1000
(DBP) (Dibutyl phthalate (DBP))		mg/kg	50	n.d.	---	---	1000
(2- ) (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))		mg/kg	50	n.d.	---	---	1000
(DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50	n.d.	---	---	1000
(DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	n.d.	---	---	-
(DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0)		mg/kg	50	n.d.	---	---	-
(DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0)		mg/kg	50	n.d.	---	---	-
(DNPP) (Di-n-pentyl phthalate (DNPP)) (CAS No.: 131-18-0)		mg/kg	50	n.d.	---	---	-
(DNHP) (Di-n-hexyl phthalate (DNHP)) (CAS No.: 84-75-3)		mg/kg	50	n.d.	---	---	-
(2- ) (DMEP) (Bis(2-methoxyethyl) phthalate (DMEP)) (CAS No.: 117-82-8)		mg/kg	50	n.d.	---	---	-
(DMP) (Dimethyl phthalate (DMP)) (CAS No.: 131-11-3)		mg/kg	50	n.d.	---	---	-
(DIOP) (Diisooctyl phthalate (DIOP)) (CAS No.: 27554-26-3)	mg/kg	50	n.d.	---	---	-	

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(EVERLIGHT ELECTRONICS CO., LTD.)  
6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

(Test Items)	(Method)	(Unit)	MDL	(Result)			(Limit)
				No.1	No.2	No.3	
(DNNP) (Di-n-nonyl phthalate (DNNP)) (CAS No.: 84-76-4)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	---	---	-
(HBCDD) ( - HBCDD, - HBCDD, - HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( - HBCDD, - HBCDD, - HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	IEC 62321: 2008 / (With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	mg/kg	5	n.d.	---	---	-
(F) (Fluorine (F)) (CAS No.: 14762-94-8)	BS EN 14582: 2016 (With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.	---	---	-
(Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1)		mg/kg	50	136	---	---	-
(Br) (Bromine (Br)) (CAS No.: 10097-32-2)		mg/kg	50	n.d.	---	---	-
(I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.	---	---	-
(PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	CEN /TS 15968: 2010 (With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	---	---	-
(PFOA and its salts) (CAS No.: 335-67-1 and its salts)	CEN /TS 15968: 2010 (With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	---	---	-

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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

(Method)	(Unit)	MDL			(Limit)
		No.1	No.2	No.3	
	mg/kg	0.2	n.d.	---	---
	mg/kg	0.2	n.d.	---	---
	mg/kg	0.2	n.d.	---	---
	mg/kg	0.2	n.d.	---	---
	mg/kg	0.2	n.d.	---	---
	mg/kg	0.2	n.d.	---	---
	mg/kg	0.2	n.d.	---	---
	mg/kg	0.2	n.d.	---	---
	mg/kg	0.2	n.d.	---	---
	mg/kg	0.2	n.d.	---	---
	mg/kg	0.2	n.d.	---	---
	mg/kg	0.2	n.d.	---	---

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# Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)  
6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

(Test Items)	(Method)	(Unit)	MDL	(Result)			(Limit)
				No.1	No.2	No.3	
(Be) (Beryllium (Be)) (CAS No.: 7440-41-7)	US EPA 3052: 1996 (With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	---	---	-
(Cd) (Cadmium (Cd))	IEC 62321-5: 2013 (IEC 62321-5: 2013 application of modified digestion by surface etching, analysis was performed by ICP-OES.)	mg/kg	2	---	n.d.	---	100
(Pb) (Lead (Pb))	(IEC 62321-5: 2013 application of modified digestion by surface etching, analysis was performed by ICP-OES.)	mg/kg	2	---	44.9	---	1000
(Hg) (Mercury (Hg))	IEC 62321-4: 2013+ AMD1: 2017 (IEC 62321-4: 2013+AMD1: 2017 application of modified digestion by surface etching, analysis was performed by ICP-OES.)	mg/kg	2	---	n.d.	---	1000
(Cd) (Cadmium (Cd))	IEC 62321-5: 2013 (With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	---	---	n.d.	100
(Pb) (Lead (Pb))	(With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	---	---	16.9	1000
(Hg) (Mercury (Hg))	IEC 62321-4: 2013+ AMD1: 2017 (With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	---	---	n.d.	1000

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(Test Items)	(Method)	(Unit)	MDL	(Result)			(Limit)
				No.1	No.2	No.3	
(Hexavalent Chromium) Cr(VI) (#2)	IEC 62321-7-1: 2015 - (With reference to IEC 62321-7-1: 2015, analysis was performed by UV-VIS.)	µg/cm <sup>2</sup>	0.1	---	n.d.	n.d.	-

(Test Items)	(Method)	(Unit)	MDL	(Result)	(Limit)
				No.4	
(Be) (Beryllium (Be)) (CAS No.: 7440-41-7)	US EPA 3050B: 1996 (With reference to US EPA 3050B: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	-

(Note)

1. mg/kg = ppm    0.1wt% = 0.1% = 1000ppm
2. MDL = Method Detection Limit ( )
3. n.d. = Not Detected ( );    MDL / Less than MDL
4. "-" = Not Regulated ( )
5. "---" = Not Conducted ( )
6. (#2) =
  - a.                    0.13 µg/cm<sup>2</sup>                    . / The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm<sup>2</sup>. The sample coating is considered to contain Cr(VI).
  - b.                    n.d. (                    0.10 µg/cm<sup>2</sup>)                    . / The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 µg/cm<sup>2</sup>). The coating is considered a non-Cr(VI) based coating
  - c.                    0.10    0.13 µg/cm<sup>2</sup>                    . / The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> is considered to be inconclusive - unavoidable coating variations may influence the determination.
7.                    ILAC-G8:09/2019                    (w=0)  
 (Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule, the judgement of conformity is based on the comparing test results with limits.)

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## PAHs Remark

(A FPS): GS PAHs

AfPS (German commission for Product Safety): GS PAHs requirements

	1 (Category 1)	2 (Category 2)	3 (Category 3)
(Parameter)	( 30 ) 2009/48/EC 3 (Materials intended to be placed in the mouth, or materials in toys (Directive 2009/48/EC) or articles for children up to 3 years of age with intended long-term skin contact (> 30 seconds))	1 30 ( ) (Materials that are not in Category 1, with intended or foreseeable long-term skin contact (> 30 seconds) or short-term repetitive contact with the skin) a. 14 (Use by children under 14) b. (Other	1 2 30 (Materials not covered by Category 1 or 2, with intended or foreseeable short-term skin contact ( 30 seconds))

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## PFAS Remark

PFAS

PFAS

PFAS

PFAS

( PFAS

PFAS )

(The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The

(Group Name)

(Substance Name)

CAS No.

29081-56-9

(PFOS-NH(OH)<sub>2</sub>)

Perfluorooctane sulfonate diethanolamine salt  
(PFOS-NH(OH)<sub>2</sub>)

70225-14-8

(PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub>)

Perfluorooctanesulfonic  
acid,tetraethylammonium salt  
(PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub>)

56773-42-3

(PFOS-DDA)

N-decyl-N,N-dimethyldecyl-1-aminium  
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-  
heptadecafluorooctane-1-sulfonate  
(PFOS-DDA)

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# Test Report

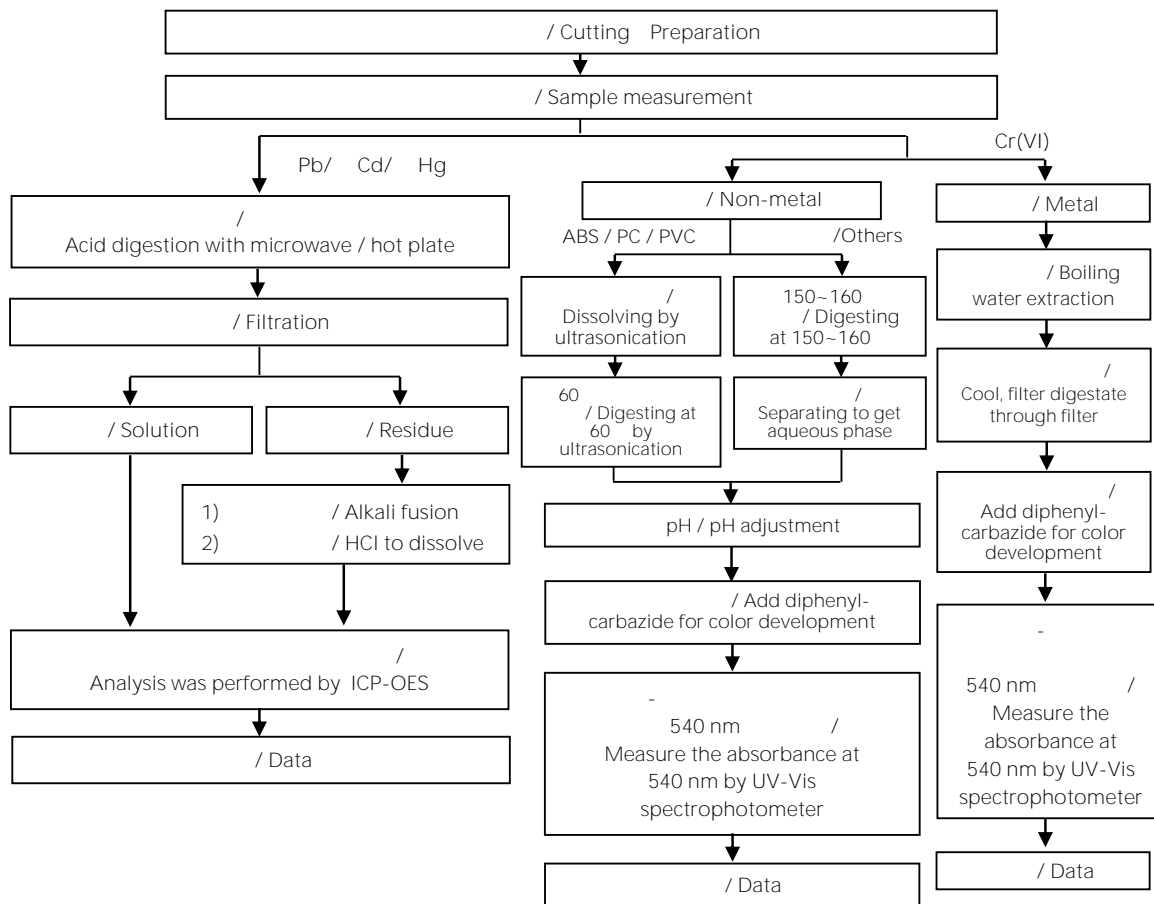
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# Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)  
 6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

## / Analytical flow chart of heavy metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.  
 Cr<sup>6+</sup> test method excluded



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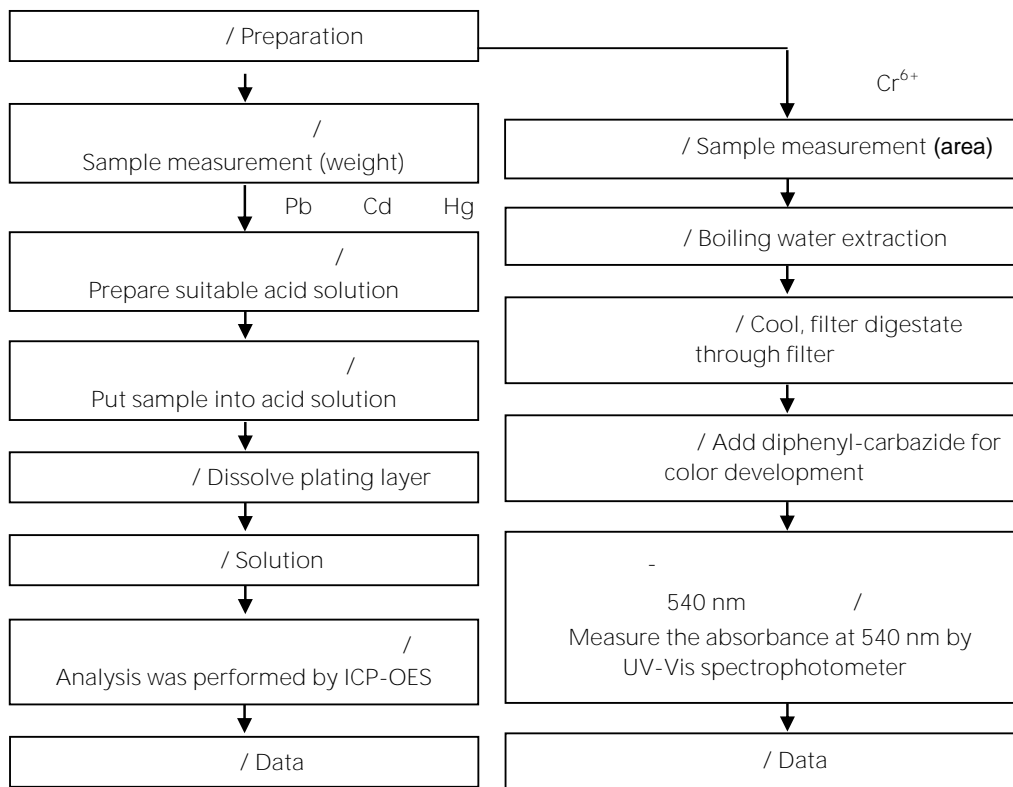
(EVERLIGHT ELECTRONICS CO., LTD.)  
 6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

/ Flow chart of stripping method for metal analysis

/ The plating layer

of samples were dissolved totally by pre-conditioning method according to below flow chart.

Cr<sup>6+</sup> test method excluded

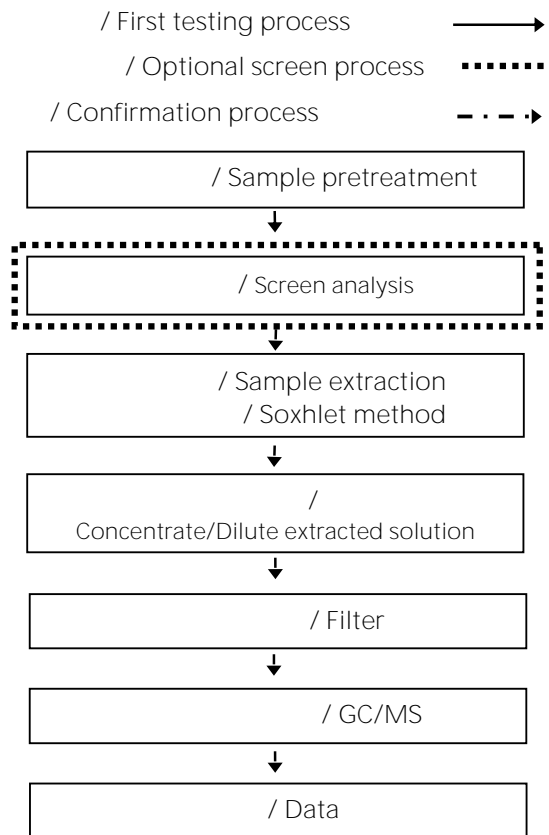


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/ Analytical flow chart - PBBs/PBDEs



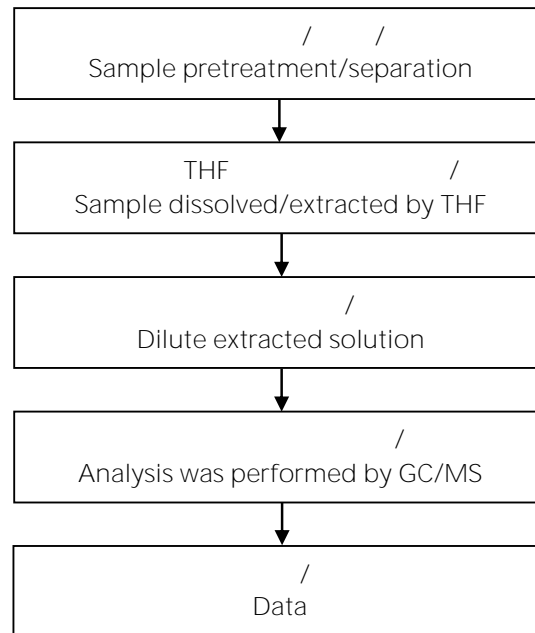
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(EVERLIGHT ELECTRONICS CO., LTD.)  
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/ Analytical flow chart - Phthalate

/Test method: IEC 62321-8



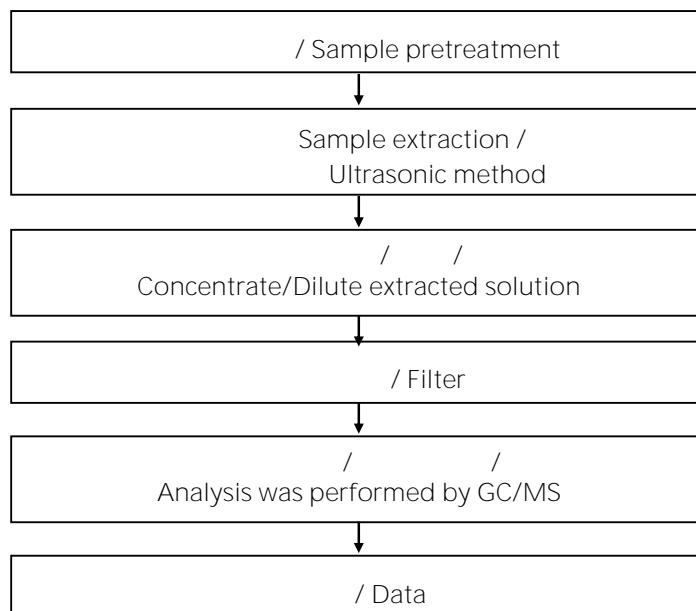
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/ Analytical flow chart - HBCDD

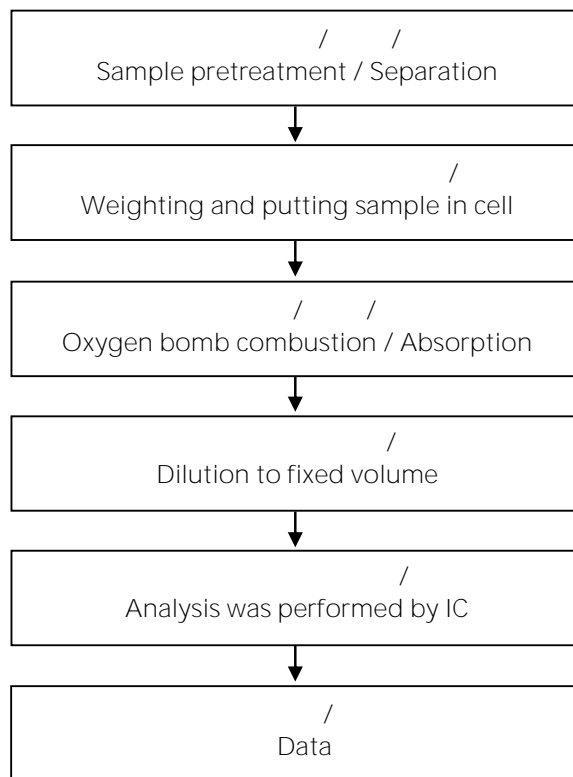


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# Test Report

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/ Analytical flow chart - Halogen

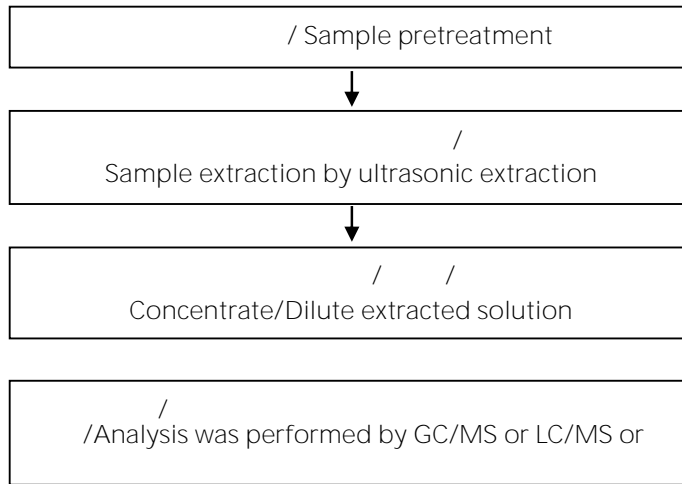


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# Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)  
 6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

( / / ) / Analytical flow  
 chart - PFAS (including PFOA/PFOS/its related compound, etc.)

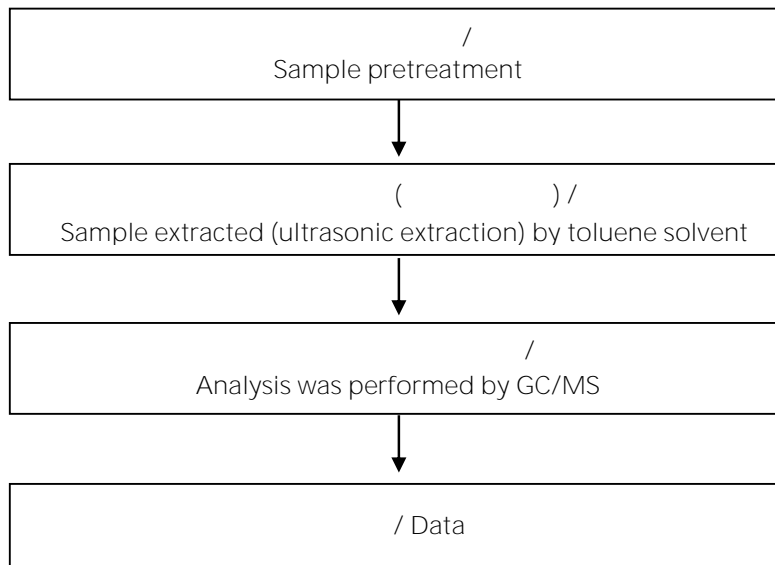


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# Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)  
6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)



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(No.): ETR24505664

(Date): 14-Jun-2024

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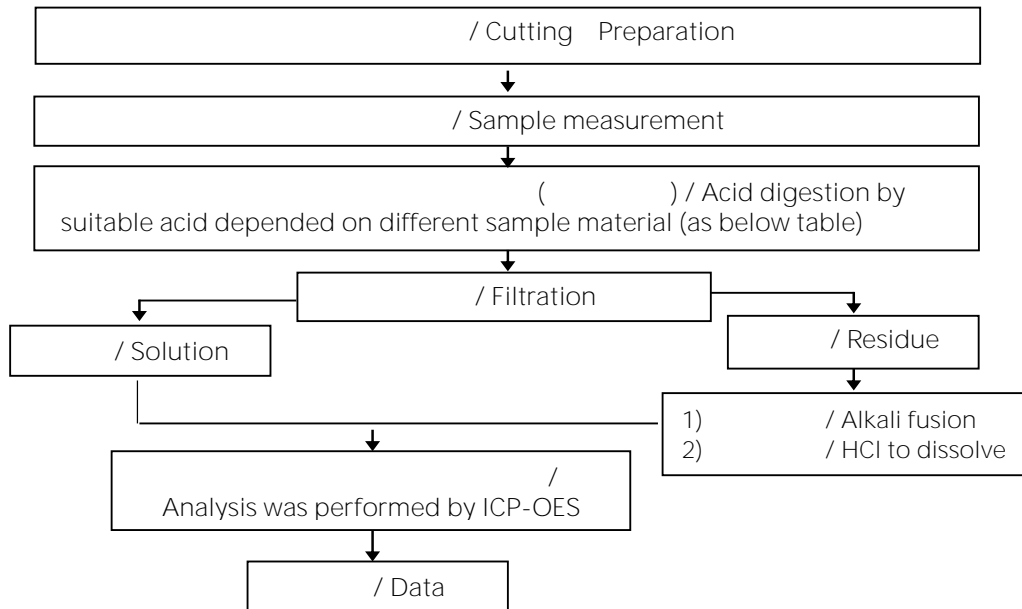
# Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)  
 6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

## ICP-OES

(Flow chart of digestion for the elements analysis performed by ICP-OES)

/ These samples were dissolved totally by pre-conditioning method according to below flow chart.



/ Steel, copper, aluminum, solder	/ Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
/ Glass	/ HNO <sub>3</sub> , HF
/ Gold, platinum, palladium, ceramic	/ Aqua regia
/ Silver	/ HNO <sub>3</sub>
/ Plastic	/ H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
/ Others	/ Added appropriate reagent to total digestion

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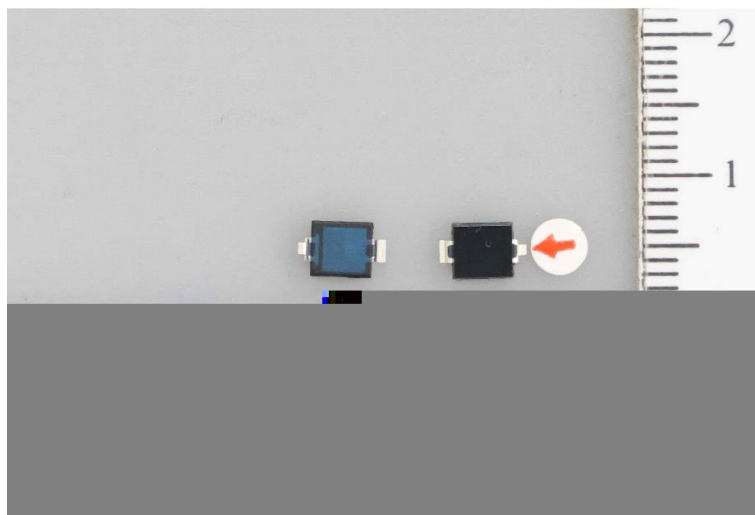
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(EVERLIGHT ELECTRONICS CO., LTD.)  
6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

\* / \*

(The tested sample / part is marked by an arrow if it's shown on the photo.)

### ETR24505664 NO.2

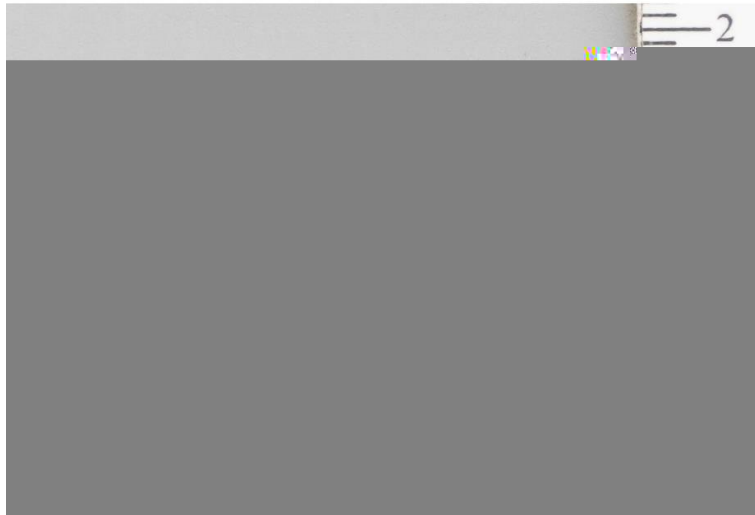


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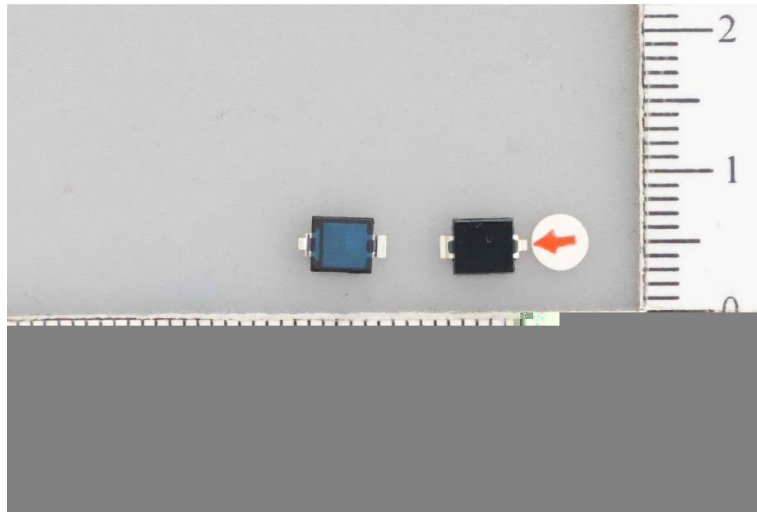
## Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)  
6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

### ETR24505664 NO.3



### ETR24505664 NO.4



\*\* (End of Report) \*\*

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