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(Date): 11-Jan-2024

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(EVERLIGHT ELECTRONICS CO., LTD.)

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

(The following sample(s) was/were submitted and identified by the applicant

as)

BASIC INFORMATION	
Type of Product	SMD C TYPE
Supplier Company Name	EVERLIGHT
Address	NO.6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN
Tel / Fax / Email	TEL:886-2685-6688
	FAX:886-2685-6699
	E-MAIL: lindawang@everlight.com
Contact Person	LI LING WANG
EVERLIGHT REPORT NO	SMD C TYPE MID SERIES
	Sampling Product: IR89-01C/L447/1R-SGS-11-Jan-2024
PRODUCT INFORMATION	
Product/component Sample description	SMD IR LED with MID technology
Quantity (numbers or weight)	0.0186 g
EVERLIGHT P/N	SMD C TYPE MID SERIES
	Sampling Product : IR89-01C/L447/1R
Product Lot No	T231122A7902D07L5
Country of Origin	TAIWAN
TEST INFORMATION	
Sample preparation	CUTTING
Test Method	RoHS: IEC 62321, Halogen: BS EN 14582
MDL	Cd, Pb, Hg: 2 mg/kg, PBBs/PBDEs: 5 mg/kg, Halogen: 50 mg/kg
(0 1 0 1 1 1 1 1 2)	(5)(5)(10)(17)(10)(10)(10)(10)(10)(10)(10)(10)(10)(10

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

(Sample Receiving Date) : 28-Dec-2023

(Testing Period) : 28-Dec-2023 to 11-Jan-2024

(Test Results) : (Please refer to following pages).

Troy Chang / Department Malager Signed for and on behalf of Alwah SGS TAIWAN LTD. Chemical Laboratory - Taipei



PIN CODE: E4EBDAE



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(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.)

(A fPS) 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 : SMD C TYPE MID SERIES

(Test Results)

(Test Items)	(Method)	(Unit)	MDL	(Result)	(Limit)
				No.1	
(Cd) (Cadmium (Cd))	IEC 62321-5: 2013	mg/kg	2	n.d.	100
	(With reference to				
(Pb) (Lead (Pb))	IEC 62321-5: 2013, analysis was	mg/kg	2	n.d.	1000
	performed by ICP-OES.)	0 0			
(Hg) (Mercury (Hg))	IEC 62321-4: 2013+ AMD1: 2017	mg/kg	2	n.d.	1000
	(With reference to IEC 62321-4:				
	2013+ AMD1: 2017, analysis was				
	performed by ICP-OES.)				



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(Test Items)	(Method)	(Unit)	MDL	(Result)	(Limit)
(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)	IEC 62321-8: 2017 /	mg/kg	50	n.d.	-
(DNHP) (Di-n-hexyl phthalate (DNHP)) (CAS No.: 84-75-3)	(With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	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.	-
(DNNP) (Di-n- nonyl phthalate (DNNP)) (CAS No.: 84-76-4)		mg/kg	50	n.d.	-
(PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	CEN/TS 15968: 2010 (With reference to	mg/kg	0.01	n.d.	-
(PFOA and its salts) (CAS No.: 335-67-1 and its salts)	CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	-



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(Test Items)	(Method)	(Unit)	MDL	(Result)	(Limit)
(Polycyclic Aromatic Hydrocarbons) (PAHs)					
(a) (Benzo[a]pyrene) (CAS No.: 50-32-8)		mg/kg	0.2	n.d.	
(e) (Benzo[e]pyrene) (CAS No.: 192-97-2)		mg/kg	0.2	n.d.	
(Benzo[a]anthracene) (CAS No.: 56-55-3)		mg/kg	0.2	n.d.	
(b) (Benzo[b]fluoranthene) (CAS No.: 205-99-2)		mg/kg	0.2	n.d.	
(j) (Benzo[j]fluoranthene) (CAS No.: 205-82-3)		mg/kg	0.2	n.d.	
(k) (Benzo[k]fluoranthene) (CAS No.: 207-08-9)	1 TD 0 0 0010 01 D 1 V	mg/kg	0.2	n.d.	
(Chrysene) (CAS No.: 218-01-9)	A fPS GS 2019:01 PAK / (With reference to	mg/kg	0.2	n.d.	
(Dibenzo[a,h]anthracene) (CAS No.: 53-70-3)	AfPS GS 2019:01 PAK, analysis was performed by GC/MS.)	mg/kg	0.2	n.d.	
(Benzo[g,h,i]perylene) (CAS No.: 191-24-2)	performed by GC/WIS.)	mg/kg	0.2	n.d.	
(Indeno[1,2,3-c,d]pyrene) (CAS No.: 193-39-5)		mg/kg	0.2	n.d.	
(Anthracene) (CAS No.: 120-12-7)		mg/kg	0.2	n.d.	
(Fluoranthene) (CAS No.: 206-		mg/kg	0.2	n.d.	
44-0)					
(Phenanthrene) (CAS No.: 85-01-8)		mg/kg	0.2	n.d.	
(Pyrene) (CAS No.: 129-00-0)		mg/kg	0.2	n.d.	
(Naphthalene) (CAS No.: 91-20-3) 15 (Sum of 15		mg/kg	0.2	n.d.	
15 (Sum of 15 PAHs)		mg/kg	-	n.d.	



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(Test Items)	(Method)	(Unit)	MDL	(Result) No.1	(Limit)
(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)		mg/kg	50	126	-
(CI) (Chlorine (CI)) (CAS No.: 22537-15-1)	BS EN 14582: 2016 (With reference to BS EN	mg/kg	50	n.d.	-
(Br) (Bromine (Br)) (CAS No.: 10097-32-2)	14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.	-
(I) (lodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.	-
(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.	-

(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. ILA C-G 8:09/2019 (w=0)
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(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): G S PA H s AfPS (German commission for Product Safety): GS PAHs requirements



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DE 4 0 D								
PFAS Rem	ark							
	PFAS	PFAS			PFAS			
					PFAS			PFAS
			(PFAS			PFAS)
/					161	65546		_

(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 concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.))

(Classification of Substance Concentration)	(Substance Name)	CAS No.
	(PFOS)	1763-23-1
	(PFOS-K) Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	(PFO S-Li) Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
PFOS, & (PFOS, its salts & derivatives)	(PFO S-N H ₄) Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)	29081-56-9
	$ (PFOS-NH(OH)_2) \\ Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH)_2) \\$	70225-14-8
	$ (PFOS-N (C_2H_5)_4) \\ Perfluorooctanesulfonic acid, tetraethylammonium \\ salt (PFOS-N(C_2H_5)_4) \\ $	56773-42-3
	(PFOS-DDA) N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctane-1-sulfonate (PFOS-DDA)	251099-16-8
	(POSF) Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	(PFOS-Mg) Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4



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CAS No.

(PFO S-N a) Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0
remuolooctanesunonic acia, soulam sait (F1 O3-Na)	
Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-	
heptadecafluorooctanesulfonate	
(PFOA)	335-67-1
(PFOA-Na)	335-95-5
Sodium perfluorooctanoate (PFOA-Na)	
(PFOA-K)	
Potassium perfluorooctanoate (PFOA-K)	
(PFO A - A g)	335-93-3
Silver perfluorooctanote (PFOA-Ag)	
(PFOA-F)	335-66-0
Perfluorooctanoyl fluoride (PFOA-F)	
(A PFO)	3825-26-1
Ammonium pentadecafluorooctanoate (APFO)	
(PFOA-Li)	17125-58-5
Lithium perfluorooctanoate (PFOA-Li)	



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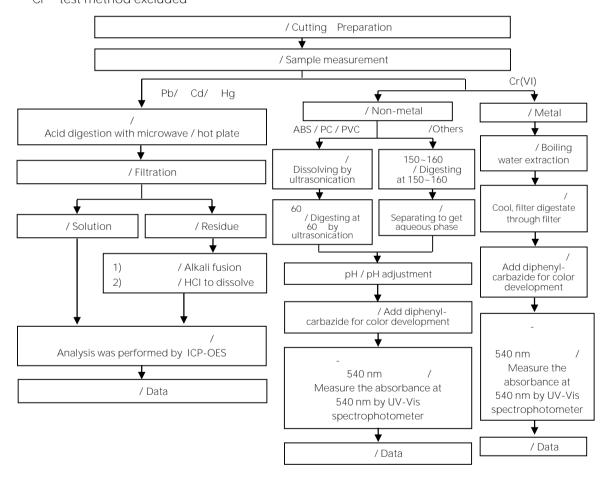
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-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

/ Analytical flow chart of heavy metal

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

Cr⁶⁺ test method excluded





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/ Analytical flow chart - PBBs/PBDEs

/ First testing process
/ Optional screen process
/ Confirmation process

/ Sample pretreatment

/ Screen analysis

/ Sample extraction
/ Soxhlet method

/
Concentrate/Dilute extracted solution

/ Filter

/ GC/MS

/ Data



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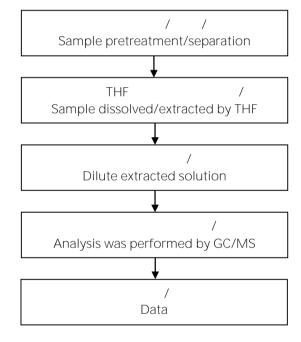
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/ Analytical flow chart - Phthalate

/Test method: IEC 62321-8





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/ Analytical flow chart - HBCDD

/ Sample pretreatment

Sample extraction /
Ultrasonic method

/ /
Concentrate/Dilute extracted solution

/ Filter

/ Analysis was performed by GC/MS



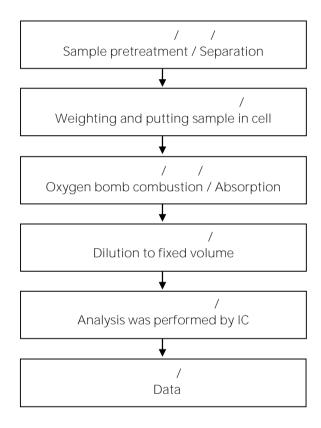
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/ Analytical flow chart - Halogen





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

/ Sa65y[()] TJ.5 16.08 reW* nBTW*



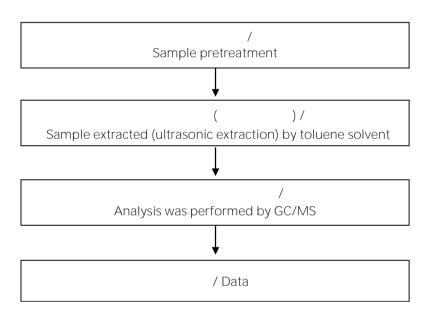
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Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)





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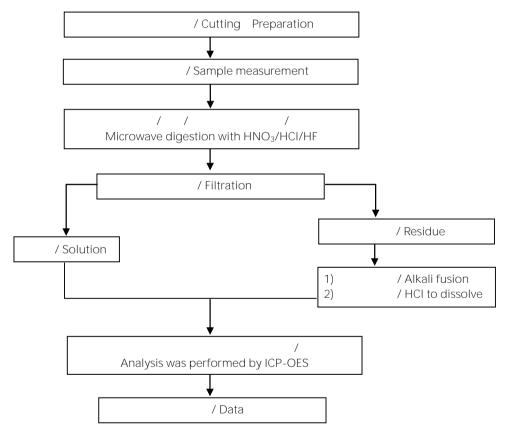
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() / Analytical flow chart of elements (Heavy metal included)

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

/Reference method US EPA 3051A US EPA 3052



* US EPA 3051A

/ US EPA 3051A method does not add HF.



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



(End of Report) **