

(No.): ETR24305701

(Date): 12-Apr-2024

(Page): 1 of 18

# Test Report

(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	ITR
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 ITR SERIES (PCB) Sampling Product : ITR1204SR10A/TR-SGS-12-Apr-2024
PRODUCT INFORMATION	
Product/component Sample description	Photointerrupter Detection of object presence or motion.
Quantity (numbers or weight)	0.0044 g
EVERLIGHT P/N	SMD ITR SERIES (PCB) Sampling Product : ITR1204SR10A/TR
Product Lot No	Y231212G1602DKX16
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

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

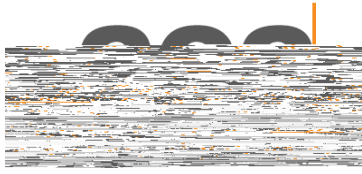
(Sample Receiving Date) : 28-Mar-2024  
(Testing Period) : 28-Mar-2024 to 12-Apr-2024

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



PIN CODE: 67FA23F9

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(No.): ETR24305701

(Date): 12-Apr-2024

(Page): 2 of 18

# Test Report

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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.)

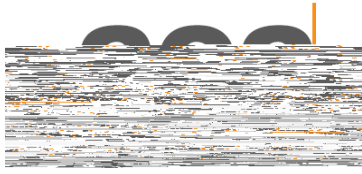
(Test Part Description)

No.1 : ITR

(Test Results)

(Test Items)	(Method)	(Unit)	MDL	(Result)	(Limit)
				No.1	
(Cd) (Cadmium (Cd))	IEC 62321-5: 2013 (With reference to	mg/kg	2	n.d.	100
(Pb) (Lead (Pb))	IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	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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(No.): ETR24305701

(Date): 12-Apr-2024

(Page): 3 of 18

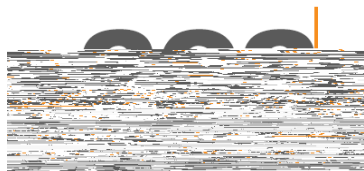
# Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)

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

(Method)	(Unit)	MDL	No.1	(Limit)
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
	mg/kg	5	n.d.	-
	mg/kg	5	n.d.	-
	mg/kg	5	n.d.	-
	mg/kg	5	n.d.	-

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(No.): ETR24305701

(Date): 12-Apr-2024

(Page): 4 of 18

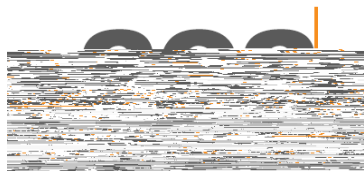
# Test Report

(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	
(DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)	IEC 62321-8: 2017 (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	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.	-
(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 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)		mg/kg	0.01	n.d.	-

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(No.): ETR24305701

(Date): 12-Apr-2024

(Page): 5 of 18

# Test Report

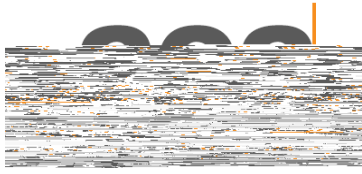
(EVERLIGHT ELECTRONICS CO., LTD.)

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

(Method)	(Unit)	MDL		(Limit)
			No.1	
	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.	
	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)

## PAHs Remark

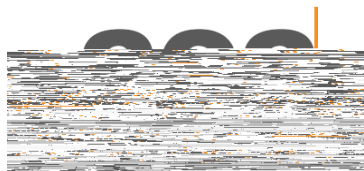
(AfPS): GS PAHs

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

(Parameter)	1 (Category 1)	2 (Category 2)		3 (Category 3)		
	( $< 30$ ) 2009/48/EC (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)	1 2 30 (Materials not covered by Category 1 or 2, with intended or foreseeable short-term skin contact ( $< 30$ seconds))	a. 14 (Use by children under 14)	b. (Other consumer products)	a. 14 (Use by children under 14)
Naphthalene	$< 1$	$< 2$		$< 10$		
Phenanthrene	$< 1$ Sum	$< 5$ Sum	$< 10$ Sum	$< 20$ Sum	$< 50$ Sum	
Anthracene						
Fluoranthene						
Pyrene						
Benzo[a]anthracene	$< 0.2$	$< 0.2$	$< 0.5$	$< 0.5$	$< 1$	
Chrysene	$< 0.2$	$< 0.2$	$< 0.5$	$< 0.5$	$< 1$	
Benzo[b]fluoranthene	$< 0.2$	$< 0.2$	$< 0.5$	$< 0.5$	$< 1$	
Benzo[j]fluoranthene	$< 0.2$	$< 0.2$	$< 0.5$	$< 0.5$	$< 1$	
Benzo[k]fluoranthene	$< 0.2$	$< 0.2$	$< 0.5$	$< 0.5$	$< 1$	
Benzo[a]pyrene	$< 0.2$	$< 0.2$	$< 0.5$	$< 0.5$	$< 1$	
Benzo[e]pyrene	$< 0.2$	$< 0.2$	$< 0.5$	$< 0.5$	$< 1$	
Indeno[1,2,3-c,d] pyrene	$< 0.2$	$< 0.2$	$< 0.5$	$< 0.5$	$< 1$	
Dibenzo[a,h]anthracene	$< 0.2$	$< 0.2$	$< 0.5$	$< 0.5$	$< 1$	
Benzo[g,h,i]perylene	$< 0.2$	$< 0.2$	$< 0.5$	$< 0.5$	$< 1$	
15 PAH (Sum of 15 PAH)	$< 1$	$< 5$	$< 10$	$< 20$	$< 50$	

(Unit) mg/kg

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(No.): ETR24305701

(Date): 12-Apr-2024

(Page): 8 of 18

# Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)

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

## PFAS Remark

PFAS

PFAS

PFAS

PFAS

PFAS

( PFAS

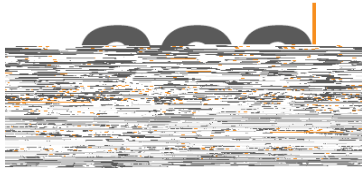
PFAS )

(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 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.))

(Group Name)	(Substance Name)	CAS No.
PFOS, & (PFOS, its salts & derivatives)	(Perfluorooctane sulfonates) (PFOS)	1763-23-1
	(PFOS-K) Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	(PFOS-Li) Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	(PFOS-NH <sub>4</sub> ) Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH <sub>4</sub> )	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-heptafluorooctane-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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(Date): 12-Apr-2024

(Page): 9 of 18

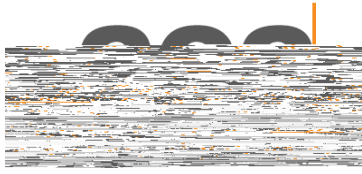
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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

(Group Name)	(Substance Name)	CAS No.
PFOS, & (PFOS, its salts & derivatives)	(PFOS-Na) Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0
	Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6
PFOA, & (PFOA, its salts & derivatives)	(Perfluorooctanoic acid) (PFOA)	335-67-1
	(PFOA-Na) Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	(PFOA-K) Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	(PFOA-Ag) Silver perfluorooctanoate (PFOA-Ag)	335-93-3
	(PFOA-F) Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
	(APFO) Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
	(PFOA-Li) Lithium perfluorooctanoate (PFOA-Li)	17125-58-5

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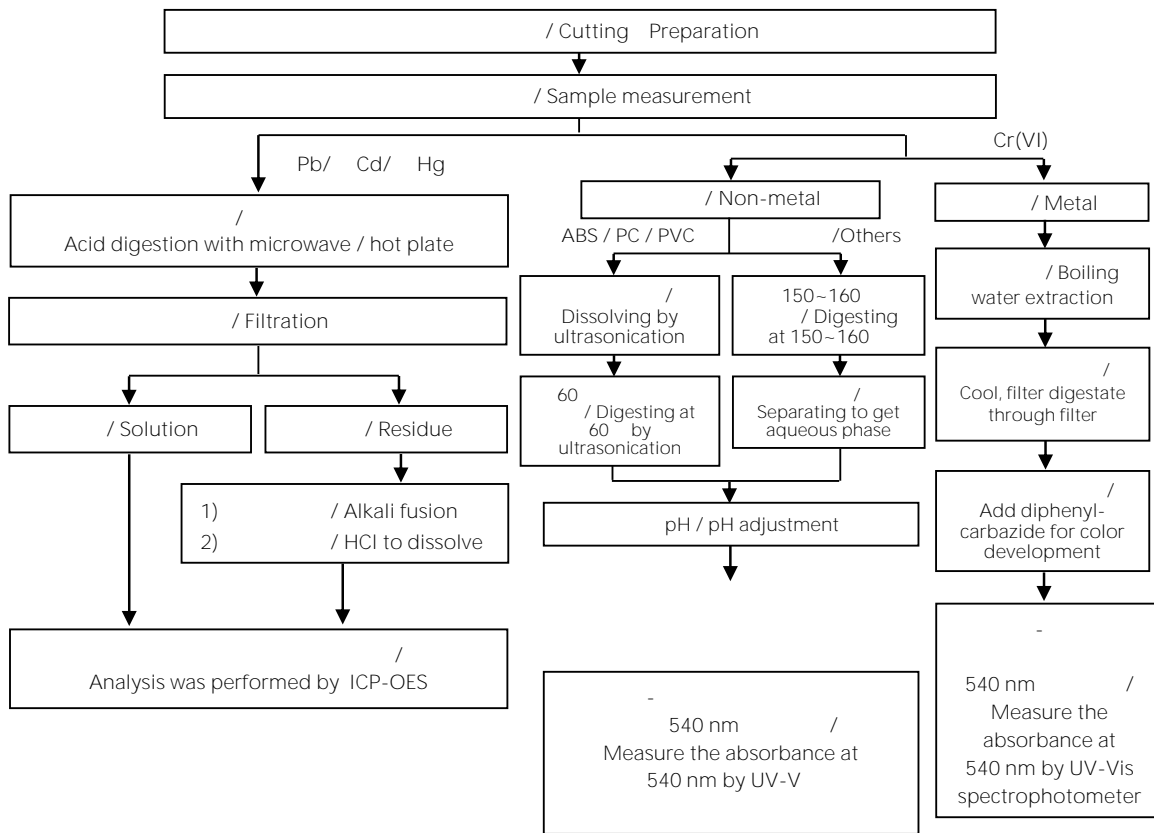
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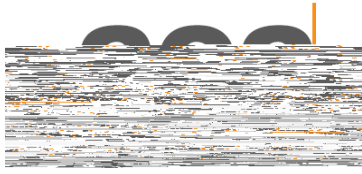
## / Analytical flow chart of heavy metal

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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(No.): ETR24305701

(Date): 12-Apr-2024

(Page): 11 of 18

# Test Report

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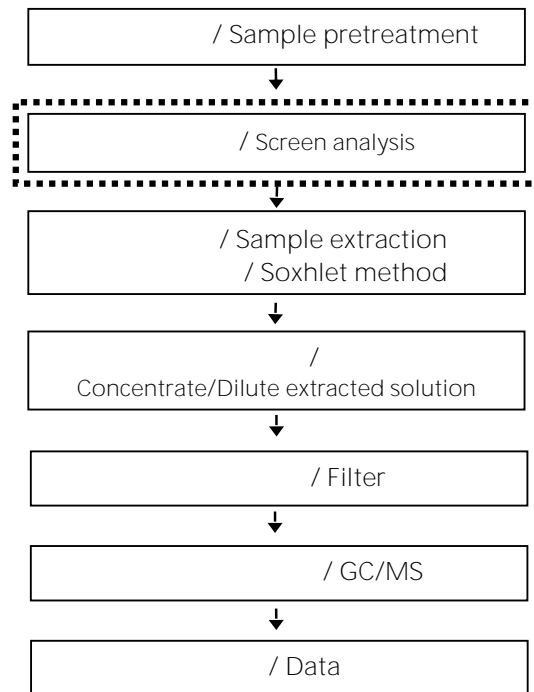
6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

/ Analytical flow chart - PBBs/PBDEs

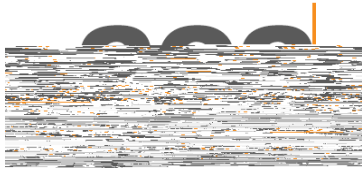
/ First testing process ———→

/ Optional screen process .....→

/ Confirmation process - - - - -→



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(No.): ETR24305701

(Date): 12-Apr-2024

(Page): 12 of 18

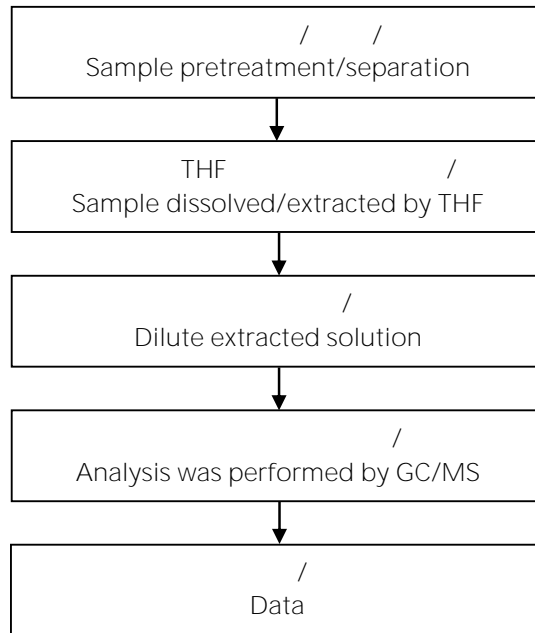
# Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)

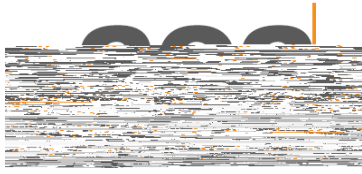
6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

/ Analytical flow chart - Phthalate

/Test method: IEC 62321-8



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(No.): ETR24305701

(Date): 12-Apr-2024

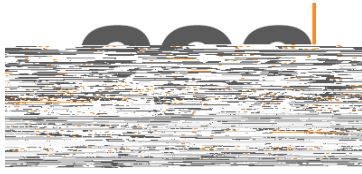
(Page): 13 of 18

# Test Report

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(No.): ETR24305701

(Date): 12-Apr-2024

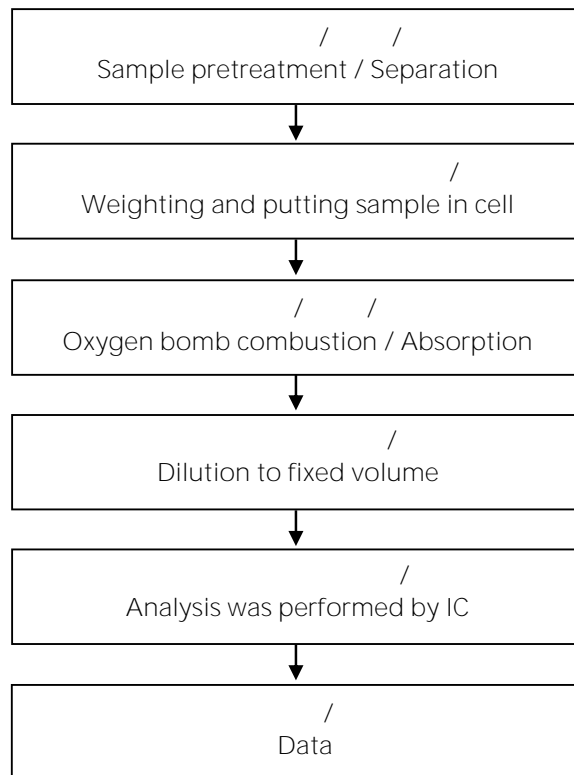
(Page): 14 of 18

# Test Report

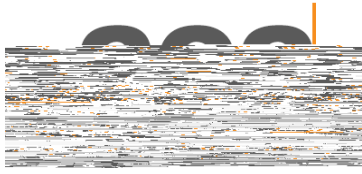
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/ Analytical flow chart - Halogen



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(No.): ETR24305701

(Date): 12-Apr-2024

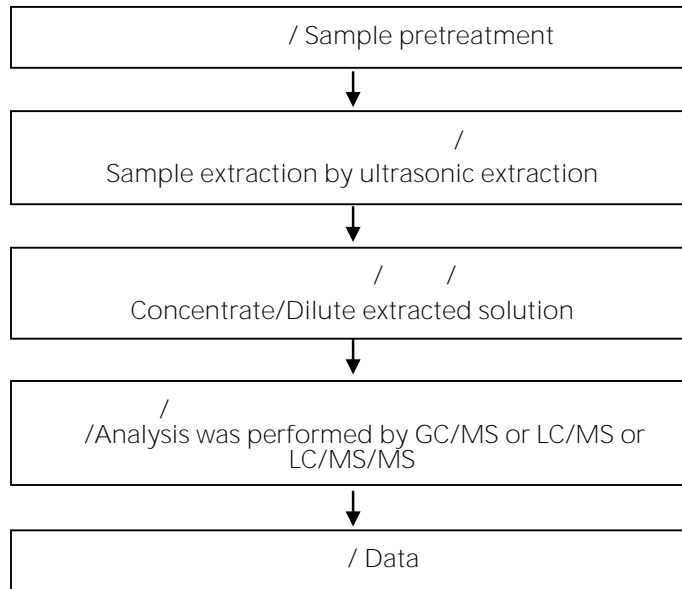
(Page): 15 of 18

# Test Report

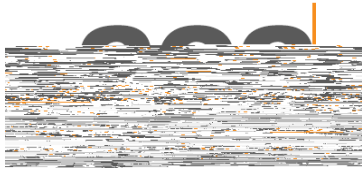
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( / / ) / Analytical flow chart - PFAS (including PFOA/PFOS/its related compound, etc.)



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(No.): ETR24305701

(Date): 12-Apr-2024

(Page): 16 of 18

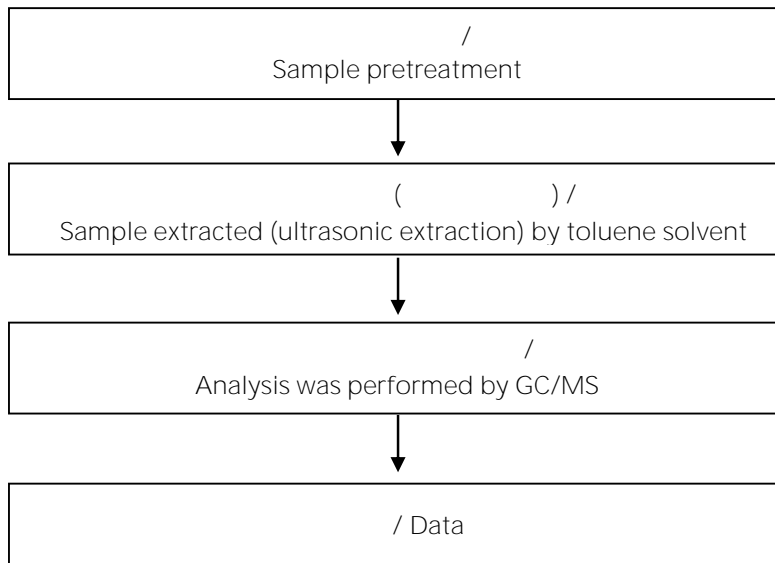
# Test Report

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

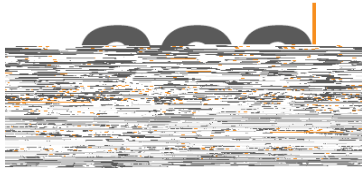
/

Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)



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(No.): ETR24305701

(Date): 12-Apr-2024

(Page): 17 of 18

# Test Report

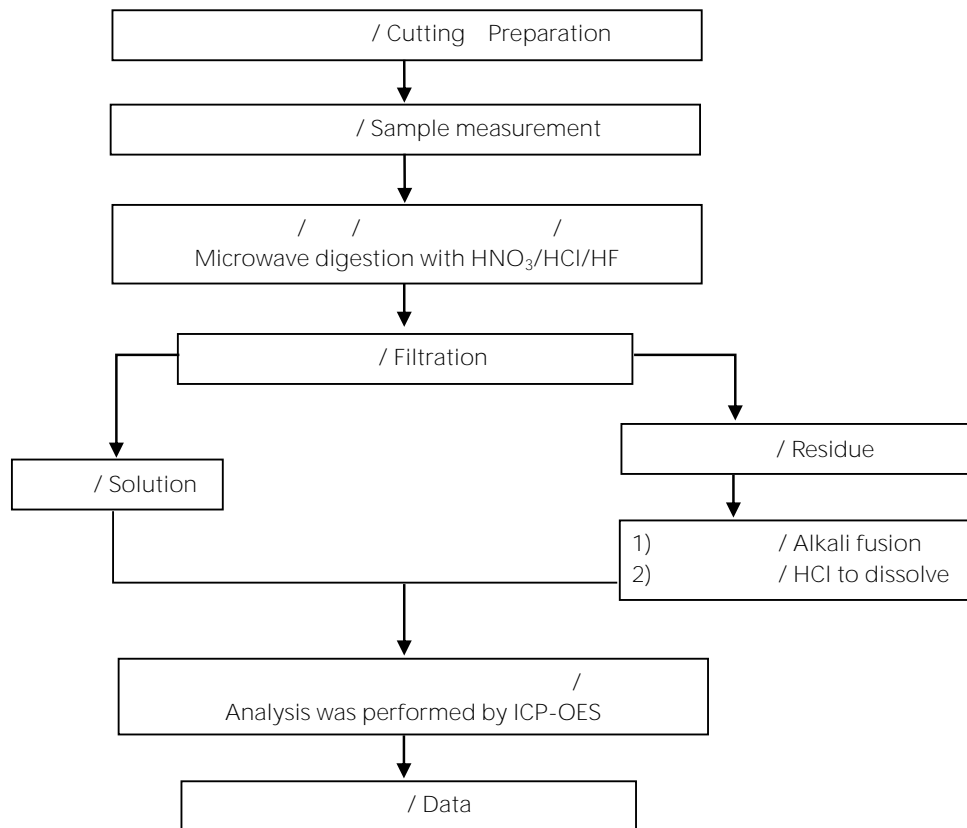
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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

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

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

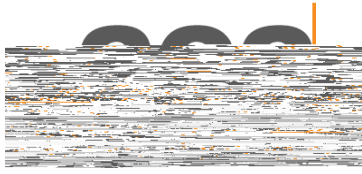
/Reference method US EPA 3051A US EPA 3052



\* US EPA 3051A

/ US EPA 3051A method does not add HF.

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(No.): ETR24305701

(Date): 12-Apr-2024

(Page): 18 of 18

# Test Report

(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.)

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

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