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(Date): 13-Sep-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	PHOTO LINK PLR	
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	PHOTO LINK PLR SERIES	
	Sampling Product: PLR137/S17/OEM-SGS-13-Sep-2024	
PRODUCT INFORMATION		
Product/component Sample	CD PLAY	
description		
Quantity (numbers or weight)	0.1216 g	
EVERLIGHT P/N	PHOTO LINK PLR SERIES	
	Sampling Product : PLR137/S17/OEM	
Product Lot No	ZS24070910M-3	
Country of Origin	CHINA	
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	
(C C '11 D)	(EVERYOUT FLECTROMICS OF LTD.)	

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

(Sample Receiving Date) : 03-Sep-2024

(Testing Period) : 03-Sep-2024 to 13-Sep-2024

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





PIN CODE: 4F30400A



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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 : (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
(PD) (Lead (PD))	(With reference to IEC 62321- 5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	2.91			1000



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(Test Items)	(Method)	(Unit)	MDL		(Result)		(Limit)
((**************************************	(=:)		No.1	No.2	No.3	1 ` ′′
(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)		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)	JEC / 2221 / , 201 F	mg/kg	5	n.d.			-
(Decabromobiphenyl)	IEC 62321-6: 2015	mg/kg	5	n.d.			-
(Sum of PBBs)	/ (With reference to IEC 62321-6:	mg/kg	-	n.d.			1000
(Monobromodiphenyl ether)	2015, analysis was performed	mg/kg	5	n.d.			-
(Dibromodiphenyl ether)	by GC/MS.)	mg/kg	5	n.d.			-
(Tribromodiphenyl ether)	by GC/Wi3.)	mg/kg	5	n.d.			-
(Tetrabromodiphenyl ether)	1	mg/kg	5	n.d.			-
(Pentabromodiphenyl ether)	1	mg/kg	5	n.d.			-
(Hexabromodiphenyl ether)	1	mg/kg	5	n.d.			-
(Heptabromodiphenyl ether)	m	mg/kg	5	n.d.			-
(Octabromodiphenyl ether)		mg/kg	5	n.d.			-
(Nonabromodiphenyl ether)	1	mg/kg	5	n.d.			-
(Decabromodiphenyl ether)]	mg/kg	5	n.d.			-
(Sum of PBDEs)]	mg/kg	-	n.d.			1000



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		MDL				
(Method)	(Unit)					(Limit)
IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	No.1 n.d.	No.2 	No.3 	-
IEC 62321: 2008 / (With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	mg/kg	5	n.d.			-
	mg/kg	50	n.d.			-
	mg/kg	50	247			-
	mg/kg					



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(Test Items)	(Method)	(Unit)	MDL		(Result)		(Limit)
				No.1	No.2	No.3	1
(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 TO 00 0010 01 DAY	mg/kg	0.2	n.d.			
(Chrysene) (CAS No.: 218-01-9)	A fPS GS 2019:01 PAK	mg/kg	0.2	n.d.			
(Dibenzo[a,h]anthracene) (CAS No.: 53-70-3)	/ (With reference to AfPS GS 2019:01 PAK, analysis was performed	mg/kg	0.2	n.d.			
(Benzo[g,h,i]perylene) (CAS No.: 191-24-2)	by GC/MS.)	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- 44-0)		mg/kg	0.2	n.d.			
(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)		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)		(Limit)
				No.1	No.2	No.3	1
(Be) (Beryllium (Be)) (CASNo.: 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: mg 2013 (IEC 62321-5: 2013 application of modified digestion by surface etching, analysis was performed by ICP- OES.)		2		n.d.		100
(Pb) (Lead (Pb))			2		43.4		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,	mg/kg	2			n.d.	100
(Pb) (Lead (Pb))	analysis was performed by ICP-OES.)	mg/kg	2			12.9	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	
(#2)		IEC 62321-7-1: 2015 - (With reference to IEC 62321-7- 1: 2015, analysis was performed by UV-VIS.)		0.1		n.d.	n.d.	-

(Test Items)	(Method)	(Unit)	MDL	(Result)	(Limit)
(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 $0.1wt% = 0.1% = 1000$	Op p m
2.	MDL = Method Detection Limit ()
3.	n.d. = Not Detected (); MD	L / Less than MDL
4.	"-" = Not Regulated ()	
5.	"" = Not Conducted ()	
6.	(#2) =	
	a. 0.13 μg/cm ²	. / The sample is positive for Cr(VI) if the Cr(VI)
	concentration is greater than 0.13 µg/	/cm². The sample coating is considered to contain Cr(VI).
	b. n.d. (0.10 μg	g/cm²) . / The sample is negative for Cr(VI) if Cr(VI) is
	n.d. (concentration less than 0.10 μ g/c	cm ²). The coating is considered a non-Cr(VI) based coating
	c. 0.10 0.13 µg/cm	2 . / The result between 0.10 μg /cm 2 and
	$0.13\mu g/cm^2$ is considered to be incon	clusive - unavoidable coating variations may influence the determination.
7.	ILA C-G 8:09/2019	(W= 0)
		(Unless otherwise stated, the decision rule for conformity reporting is

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the judgement of conformity is based on the comparing test results with limits.)

based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019. According to this rule,

新北市五股區新北產業園區五權七路 25 號 t+886(02)2299 3939 f+886(02)2299 3237 25, Wu Chyuan 7th Road, New Taipei Industrial Park, Wu Ku District, New Taipei City, Taiwan



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PAHs Remark

(AfPS): GSPAHs

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	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))
	years of age with intended long-term skin contact (> 30 seconds))	a. b. (Other (Use by consumer children under 14) products)	a. b. (Other consumer children under 14) products)
Naphthalene	< 1	< 2	< 10



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(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.))

		CAS No.
(Group Name)	(Substance Name)	
	(Perfluorooctane sulfonates) (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-NH₄) Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH₄)	29081-56-9
PFOS, &	$\label{eq:pfosnh} (\text{PFOS-NH}(\text{OH})_2)$ Perfluorooctane sulfonate diethanolamine salt $(\text{PFOS-NH}(\text{OH})_2)$	70225-14-8
PFOS, its salts & derivatives)	$(\text{PFO S-N } (\text{C}_2\text{H}_5)_4)$ Perfluorooctanesulfonic acid, tetraethylammonium salt $(\text{PFOS-N} (\text{C}_2\text{H}_5)_4)$	56773-42-3
	(PFO S-D D A) 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
	$(PFOS\text{-N}(C_4H_9)_4)$ TetrabutylAmmonium perfluorooctanesulfonate $(PFOS\text{-N}(C_4H_9)_4)$	111873-33-7
	(POSF) Perfluorooctane sulfonyl fluoride (POSF)	307-35-7



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		CAS No.
(Group Name)	(Substance Name)	
	(PFO S-Mg) Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4
	(PFO S-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
	Perfluorooctanesulfonate (anion)	45298-90-6
	$\begin{array}{ccc} N,N-&(1:1)\ (PFOS-N\ (C_2H_5)_3)\\ 1-Octanesulfonic\ acid,\ 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-,\\ compd.\ with\ N,N-diethylethanamine\ (1:1)\ (PFOS-N(C_2H_5)_3) \end{array}$	54439-46-2
PFOS, & (PFOS, its salts & derivatives)	N,N,N1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,81- (1:1) (PFOS-N(CH ₃) ₄) Methanaminium, N,N,N-trimethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(CH ₃) ₄)	56773-44-5
	1- N,N,N, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,81 - (1:1) (PFOS-N (C ₃ H ₇) ₃ (C ₅ H ₁₁)) 1-Pentanaminium, N,N,N-tripropyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(C ₃ H ₇) ₃ (C ₅ H ₁₁))	56773-56-9
	1- N,NN 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,81- (1:1) (PFOS-N (C ₄ H ₉) ₃ (CH ₃)) 1-Butanaminium, N,N-dibutyl-N-methyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1) (PFOS-N(C ₄ H ₉) ₃ (CH ₃))	124472-68-0
	[4-(1,1-)]- 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,81- (1:1) Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	213740-80-8



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(Group Name)	(Substance Name)	CAS No.
PFOS, & (PFOS, its salts & derivatives)	(2,4,6-)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8 1- (1:1) Sulfonium, diphenyl(2,4,6-trimethylphenyl)-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	258341-99-0
	1 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,81 - (1:1) Pyridinium, 1-hexadecyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	334529-63-4
	1- N,N,N 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,81 - (1:1) 1-Decanaminium, N,N,N-triethyl-, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-octanesulfonate (1:1)	773895-92-4
	$(PFOS-P(C_4H_9)_4))$ Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P(C_4H_9)_4))	2185049-59-4
	$\label{eq:continuous} \begin{picture}(PFOS-C_4H_{11}N)\\ Perfluorooctanesulfonic acid diethylamine salt\\ (PFOS-C_4H_{11}N)\\ \end{picture}$	2205029-08-7
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1203998-97-3
	1- 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8,1,1' - (PFOSAN) 1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, 1,1'-anhydride (PFOSAN)	423-92-7



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(PFOA-Na)

3825-26-1 17125-58-5 35965-01-6 17125-60-9 68141-02-6 423-52-9 45285-51-6 33496-48-9 98241-25-9

32609-65-7

335-66-0



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		CAS No.
(Group Name)	(Substance Name)	
PFOA, & (PFOA, its salts & derivatives)	1- N,N,N, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- (1:1) 1-Propanaminium, N,N,N-tripropyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluorooctanoate (1:1)	277749-00-5
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	98065-31-7
	2,2,3,3,4,4,5,5,6,6,7,7,8,8,8 (1:1) (PFOA - C ₂ H ₇ N) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, compd. with ethanamine (1:1) (PFOA-C ₂ H ₇ N)	1376936-03-6
	$ (1:1) \ (9CI) \ (PFOA-C_5H_5N) $ Octanoic acid, pentadecafluoro-, compd. with pyridine (1:1) (9CI) $ (PFOA-C_5H_5N) $	95658-47-2
	-1- (1:1) (PFOA-C ₁₀ H ₁₄ N ₂) Pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂)	1514-68-7
	1- N,N,N 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- (1:1) (PFOA- C ₁₁ H ₂₆ N) 1-Octanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluorooctanoate (1:1) (PFOA- C ₁₁ H ₂₆ N)	927835-01-6



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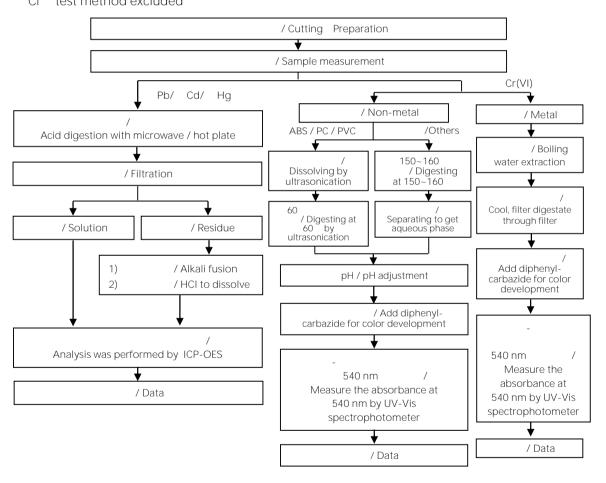
(Date): 13-Sep-2024

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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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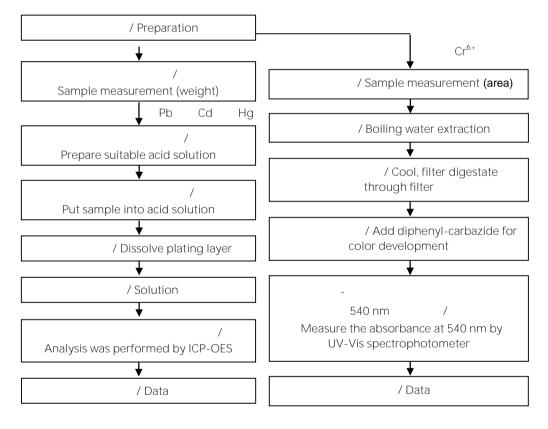
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/ Flow chart of stripping method for metal analysis

/ The plating layer

of samples were dissolved totally by pre-conditioning method according to below flow chart. Cr^{6+} test method excluded







(No.): ETR24900334

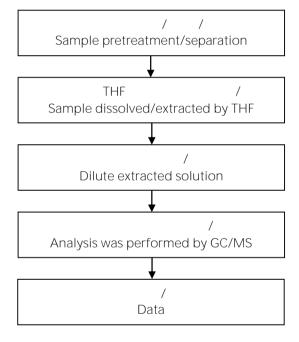
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/ Analytical flow chart - Phthalate

/Test method: IEC 62321-8





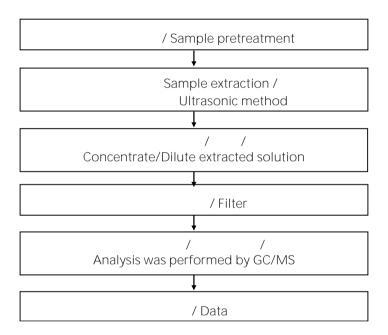
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/ Analytical flow chart - HBCDD





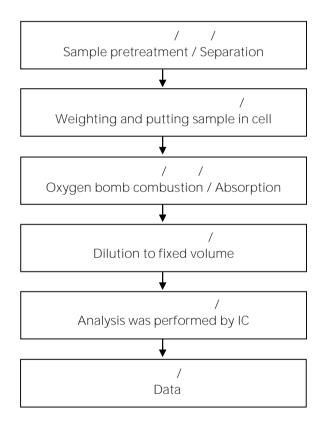
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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

/ Analytical flow chart - Halogen





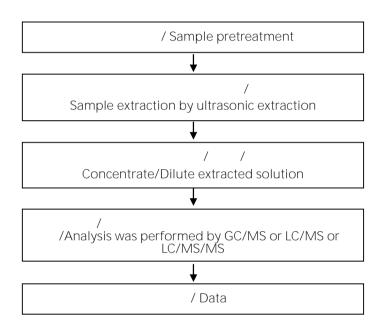
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(/ / /) / Analytical flow chart - PFAS (including PFOA/PFOS/its related compound, etc.)





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Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)

/
Sample pretreatment

() /
Sample extracted (ultrasonic extraction) by toluene solvent

/
Analysis was performed by GC/MS

/ Data



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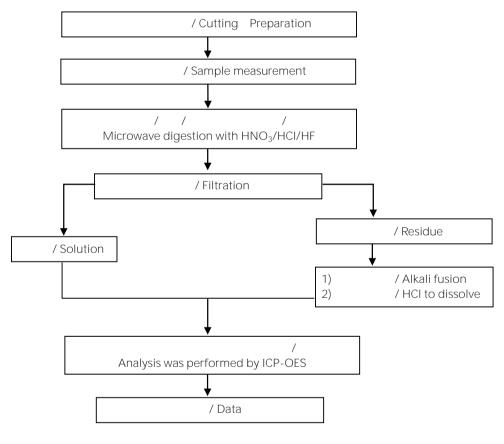
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() / Analytical flow chart of elements (Heavy metal included)

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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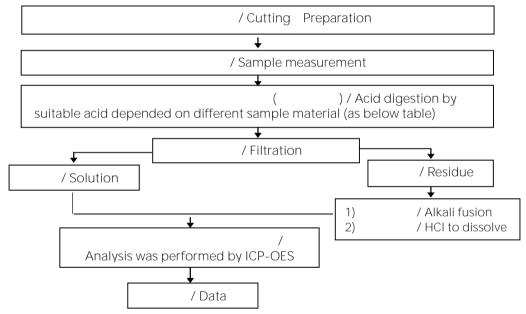
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ICP-OES

(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, $\rm HNO_3$, $\rm HCI$, $\rm HF$, $\rm H_2O_2$
/ Glass	, / HNO ₃ ,HF
, , , / Gold, platinum, palladium, ceramic	/ Aqua regia
/ Silver	/ HNO ₃
/ Plastic	, , , / H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCI
/ Others	/ Added appropriate reagent to total digestion



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ETR24900334 NO.3





(End of Report) **