

(No.): ETR23C05763

(Date): 11-Jan-2024

(Page): 1 of 24

(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 MOLDING SERIES
	Sampling Product : 67-31A/GHC-YV1W2EZ3/2T-SGS-11-Jan-2024
PRODUCT INFORMATION	
Product/component Sample	PLCC with Lens
description	
Quantity (numbers or weight)	0.0288 g
EVERLIGHT P/N	SMD C TYPE MOLDING SERIES
	Sampling Product : 67-31A/GHC-YV1W2EZ3/2T
Product Lot No	T231205K18Q428
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-Dec-2023

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

:

(Test Results)

(Please refer to following pages).





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(EVERLIGHT ELECTRONICS CO., LTD.)

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

(Test Requested)	Directive (EU) 2	ent, with reference 015/863 to deter	5/EU Annex II , DBP, BBP, DEHF e to RoHS 2011/65/EU Ann mine Cadmium, Lead, Merc ntents in the submitted san	nex II and amending cury, Cr(VI), PBBs,
	(2) other item(s).)	PAHs	(As specified by clier	nt, to test PAHs and
(Conclusion)	DEHP, DIBP cor	(Based on of Cadmium, Lead	2011/65/EU Annex II the performed tests on su d, Mercury, Cr(VI), PBBs, PB ts as set by RoHS Directive 1011/65/EU.)	DEs, DBP, BBP,
	ofPAHsrequire	ement (Category 3	(Based upon the perf ults of PAHs (15 items) con 3) Other consumer produ Safety (AfPS) GS PAHs.)	nply with the limits
(Test Part Des No.1 : (BOD Y No.2 :	•	SILVER COLORED	METAL PIN)	

(BASE MATERIAL OF SILVER COLORED METAL PIN)

() (SILVER COLORED METAL PIN (INCLUDING THE PLATING LAYER))

(Test Results)

No.3

No.4

(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	5.58			1000

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(EVERLIGHT ELECTRONICS CO., LTD.)

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	(Test Items)	(Method)	(Unit)	MDL		(Result)		(Limit)
			. ,		No.1	No.2	No.3	
(H₩	mo,	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.)						
		IEC 62321-7-2: 2017	mg/kg	8	n.d.			1000
		(With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)						
	(Monobromobiphenyl)		mg/kg	5	n.d.			-
	(Dibromobiphenyl)		mg/kg	5	n.d.			-
	(Tribromobiphenyl)		mg/kg	5	n.d.			-
			mg/kg	5	n.d.			-
	(Pentabromobiphenyl)		mg/kg	5	n.d.			-
			mg/kg	5	n.d.			-
			mg/kg	5	n.d.			-
			mg/kg	5	n.d.			-
		IEC 62321-6: 2015	mg/kg	5	n.d.			-
		/	mg/kg	5	n.d.			-
		(With reference to IEC	mg/kg	-	n.d.			1000
	(Monobromodiphenyl ether)	62321-6: 2015, analysis was	mg/kg	5	n.d.			-
	(Dibromodiphenyl ether)	performed by GC/MS.)	mg/kg	5	n.d.			-
	(Tribromodiphenyl ether)	perfermed by elements,	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.			-
			mg/kg	5	n.d.			-
	(Octabromodiphenyl ether)		mg/kg	5	n.d.			-
	(Nonabromodiphenyl ether)		mg/kg	5	n.d.			-
			mg/kg	5	n.d.			-
	(Sum of PBDEs)		mg/kg	-	n.d.			1000

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			MDL		(5		
(Test Items)	(Method)	(Unit)		N - 1	(Result)		(Limit)
(BBP) (Butyl benzyl		mg/kg	50	No.1 n.d.	No.2	No.3	1000
phthalate (BBP))		ing/kg	00	n.d.			1000
(DBP) (Dibutyl		mg/kg	50	n.d.			1000
phthalate (DBP))							1000
(2-) (DEHP) (Di- (2-ethylhexyl) phthalate (DEHP))		mg/kg	50	n.d.			1000
(DIBP) (Diisobutyl		mg/kg	50	n.d.			1000
phthalate (DIBP))							
(DIDP) (Diisodecyl		mg/kg	50	n.d.			-
phthalate (DIDP)) (CAS No.: 26761-40- 0, 68515-49-1)							
(DINP) (Diisononyl		mg/kg	50	n.d.			-
phthalate (DINP)) (CAS No.: 28553-12- 0, 68515-48-0)							
(DNOP) (Di-n-octyl	IEC 62321-8: 2017	mg/kg	50	n.d.			-
phthalate (DNOP)) (CAS No.: 117-84- 0)	/ (With reference to IEC						
(DNPP) (Di-n-	62321-8: 2017, analysis was	mg/kg	50	n.d.			-
pentyl phthalate (DNPP)) (CAS No.: 131-18-0)	performed by GC/MS.)						
(DNHP) (Di-n-hexyl phthalate (DNHP)) (CAS No.: 84-75-3)		mg/kg	50	n.d.			-
(2-) (DMEP)		mg/kg	50	n.d.			-
(Bis(2-methoxyethyl) phthalate (DMEP)) (CAS No.: 117-82-8)							
(DMP) (Dimethyl phthalate (DMP)) (CAS No.: 131-11-3)		mg/kg	50	n.d.			-
(DIOP) (Diisooctyl phthalate (DIOP)) (CAS No.: 27554-26-		mg/kg	50	n.d.			-
3)							
(DNNP) (Di-n- nonyl phthalate (DNNP)) (CAS No.:		mg/kg	50	n.d.			-
84-76-4)							

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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)
(Test tierns)	(Method)	(Unit)		No.1	No.2	No.3	
(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)) (CASNo.: 14762- 94-8)		mg/kg	50	520			-
(CI) (Chlorine (CI)) (CASNo.: 22537- 15-1)	BS EN 14582: 2016 (With reference to BS EN 14582:	mg/kg	50	n.d.			-
(Br) (Bromine (Br)) (CASNo.: 10097- 32-2)	2016, analysis was performed by IC.)	mg/kg	50	n.d.			-
(I) (Iodine (I)) (CAS No.: 14362-44-8)	performed by ic.)	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	mg/kg	0.01	n.d.			-
(PFOA and its salts) (CAS No.: 335-67-1 and its salts)	15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.			-
(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.			-

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(EVERLIGHT ELECTRONICS CO., LTD.)

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		MDL				
(Method)	(Unit)					(Limit)
			No.1	No.2	No.3	
	()	0.0				
	mg/kg	0.2	n.d.			
-		0.0	in al			
	mg/kg	0.2	n.d.			
4		0.0	un el			
	mg/kg	0.2	n.a.			
4		0.0	in al			
	mg/kg	0.2	n.a.			
<u>_</u>		0.0	n d			
	тту/ку	0.2	n.a.			
-	malka	0.0	рd			
A fPS G S 2019:01 PA K	тту/ку	0.2	n.a.			
- /	ma/ka	0.2	nd			
(With reference to AfPS GS						
2019:01 PAK, analysis was	тту/ку	0.2	n.u.			
performed by GC/MS.)	ma/ka	0.2	nd			
	шу/ку	0.2	n.u.			
-	ma/ka	0.2	nd			
	тту/ку	0.2	n.u.			
-	ma/ka	0.2	nd			
	i i ig/ ikg	0.2	n.u.			
4	ma/ka	0.2	nd			
1						
		-				
	/ (With reference to AfPS GS 2019:01 PAK, analysis was performed by GC/MS.)	Minimical Control of C	(Method) (Unit) Image: Construct on the second s	(Method) (Unit) No.1 No.1 No.1 Mg/kg 0.2 n.d. Mg/kg 0.2 n.d. <td< td=""><td>$(Method) (Unit) \\ (Unit) \\ No.1 \\ No.2 \\ No.1 \\ No.2 \\ No.1 \\ No.2 \\ No.4 \\ N$</td><td>(Method) (Unit) $(Cesult)$ No.1 No.2 No.3 No.1 No.2 No.3 Model Model Model Model Model M</td></td<>	$(Method) (Unit) \\ (Unit) \\ No.1 \\ No.2 \\ No.1 \\ No.2 \\ No.1 \\ No.2 \\ No.4 \\ N$	(Method) (Unit) $(Cesult)$ No.1 No.2 No.3 No.1 No.2 No.3 Model Model Model Model Model M

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Test Report

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

(Test Items)	(Method)	(Unit)	MDL	(Result) No.4	(Limit)
(Be) (Beryllium (Be)) (CASNo.: 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. "---" = NotConducted (
- 6. (#2) =

a. $0.13 \,\mu\text{g/cm}^2$. / The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than $0.13 \,\mu\text{g/cm}^2$. The sample coating is considered to contain Cr(VI). b. n.d. ($0.10 \,\mu\text{g/cm}^2$) . / The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than $0.10 \,\mu\text{g/cm}^2$). The coating is considered a non-Cr(VI) based coating c. $0.10 \quad 0.13 \,\mu\text{g/cm}^2$. . / The result between $0.10 \,\mu\text{g/cm}^2$ and $0.13 \,\mu\text{g/cm}^2$ is considered to be inconclusive - unavoidable coating variations may influence the determination.

(W=O)

7.

ILA C - G 8:09/2019

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

PAHs Remark

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

	1 (Category 1)	2 (Category 2)	3 (Category 3)
(, u.u., o.c.)	intended to be placed in the mouth, or materials in toys	1 30 () (Materials that are not in Category 1, with intended or foreseeable long-term skin contact (> 30 seconds) or short-	, ,

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PFAS Remark

PFAS		PFAS		
		PFA S		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.))

(Classification of Substance Concentration)	(Substance Name)	CAS No.
	(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 ₄) Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH ₄)	29081-56-9
PFOS, &	$(PFOS-NH(OH)_2)$ Perfluorooctane sulfonate diethanolamine salt (PFOS-NH(OH)_2)	70225-14-8
	$\begin{array}{c} (PFOS-N(C_2H_5)_4)\\ Perfluorooctanesulfonic\\ acid,tetraethylammonium salt(PFOS-N(C_2H_5)_4) \end{array}$	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

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(POSF)	307-35-7
Perfluorooctane sulfonyl fluoride (POSF)	
(PFOS-Mg) Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4
(PFOS-Na) Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0

Piperidine

		335-93-3
PFOA, & (PFOA, its salts & derivatives)	(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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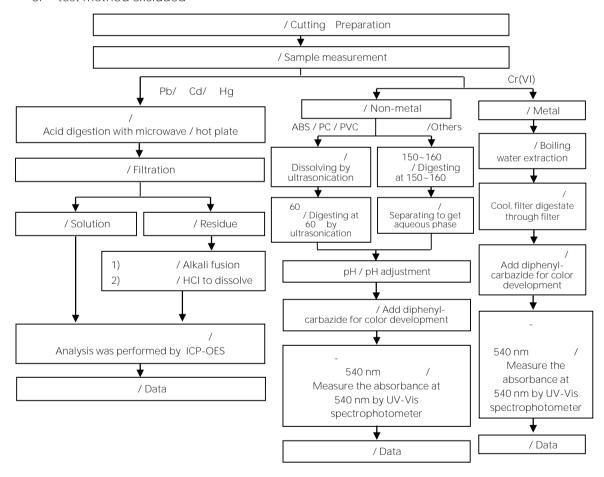
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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

/ Analytical flow chart of heavy metal

These samples were dissolved totally by pre-conditioning method according to below flow chart. Cr⁶⁺ test method excluded



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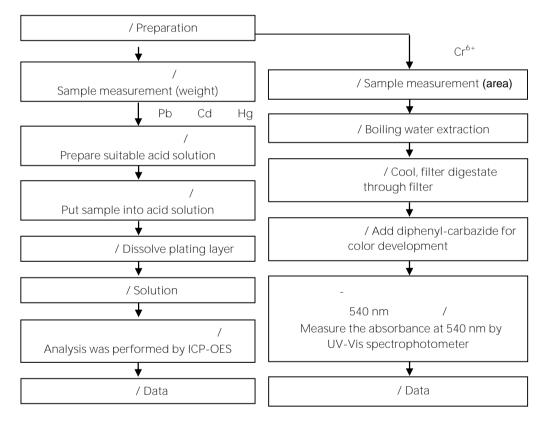
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/ Flow chart of stripping method for metal analysis

/ The plating layer

of samples were dissolved totally by pre-conditioning method according to below flow chart. Cr⁶⁺ test method excluded



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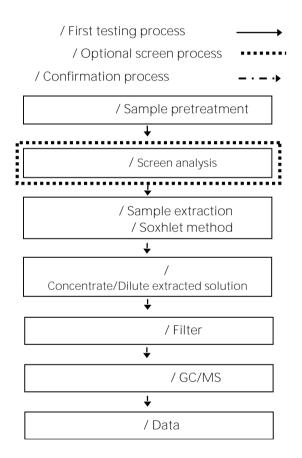
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/ / Analytical flow chart - PBBs/PBDEs



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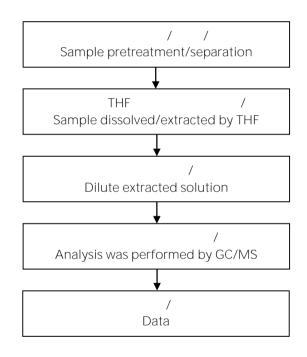
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/ Analytical flow chart - Phthalate

/Test method: IEC 62321-8



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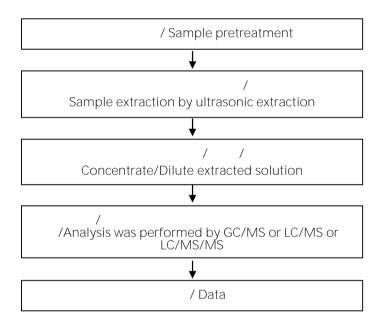
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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

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



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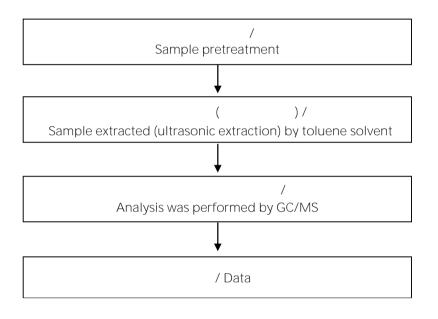
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Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)



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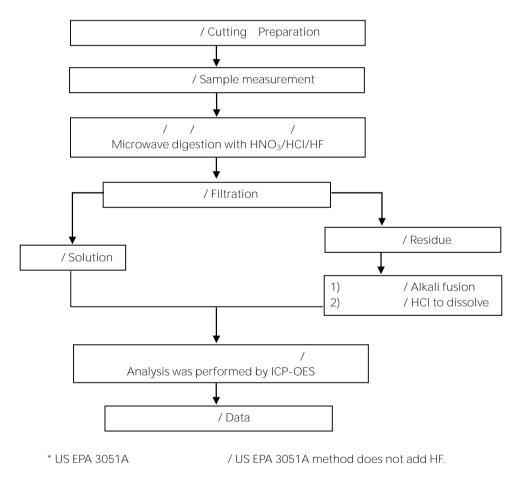
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() / Analytical flow chart of elements (Heavy metal included)

These samples were dissolved totally by pre-conditioning method according to below flow chart. /Reference method US EPA 3051A US EPA 3052



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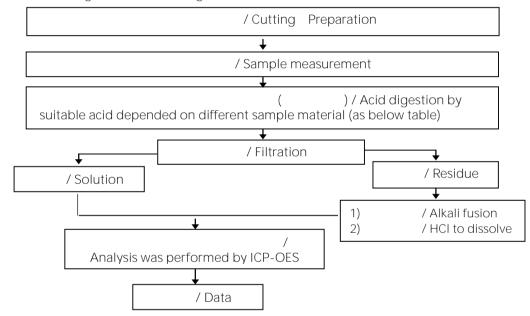
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ICP-OES

(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, HNO $_3$, HCI, HF, 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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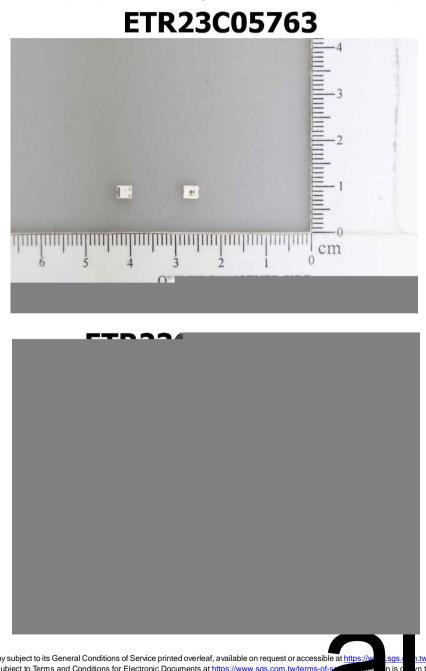
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/ .* (The tested sample / part is marked by an arrow if it's shown on the photo.)



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