

No. CANEC2302635601

Date:	07	Mar	2023
Date.	01	Iviai	2020

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Client Name : SHENGYI TECHNOLOGY CO., LTD.

Client Address : 5 WESTERN INDUSTRY ROAD, SONGSHAN LAKE, DONGGUAN CITY, GUANGDONG, P.R. CHINA

Sample Name : **Copper Clad Laminate** S1190 Model No. : The above sample(s) and information were provided by the client.

SGS Job No. :	CP23-007923 - GZ
Date of Sample Received :	28 Feb 2023
Testing Period :	28 Feb 2023 - 07 Mar 2023
Test Requested :	Selected test(s) as requested by the client.
Test Method(s) :	Please refer to next page(s).
Test Result(s) :	Please refer to next page(s).

**Result Summary :** 

Test Requested	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	PASS
Elementary Analysis	See Results
Phthalate	See Results
Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives	See Results
Flame retardant(s)	See Results

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Arsene Ye

Arsene Ye Approved Signatory





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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN23-026356.001	Double-side copper-clad laminate

Remarks :

(1) 1 mg/kg = 0.0001% (2) MDL = Method Detection Limit (3) ND = Not Detected ( < MDL ) (4) "-" = Not Regulated

#### EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC Test Method : 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1000	mg/kg	8	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series

(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

#### **Elementary Analysis**

Test Method : With reference to EPA 3052:1996, analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Antimony (Sb)	mg/kg	10	ND
Beryllium (Be)	mg/kg	5	ND

#### **Phthalate**

Test Method : With reference to EN14372: 2004. Analysis was performed by GC-MS.

<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	MDL	<u>001</u>
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 /	%(w/w)	0.010	ND
	68515-48-0			
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /	%(w/w)	0.010	ND
	68515-49-1			



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Test Item(s)CAS NO.UnitMDL001Di-n-hexyl Phthalate (DnHP)84-75-3%(w/w)0.003NDDiisobutyl Phthalate (DIBP)84-69-5%(w/w)0.003ND1,2-Benzenedicarboxylic acid, di-C7-11-branched68515-42-4%(w/w)0.010NDand linear alkyl esters (DHNUP)117-82-8%(w/w)0.003NDBis(2-methoxyethyl) Phthalate (DMEP)117-82-8%(w/w)0.003ND1,2-Benzenedicarboxylic acid, di-C6-8-branched71888-89-6%(w/w)0.010NDalkyl esters, C7-rich (DIHP)605-50-5%(w/w)0.003NDn-pentyl Isopentyl Phthalate (nPIPP)776297-69-9%(w/w)0.003ND1,2-Benzenedicarboxylic acid, dipentyl ester,84777-06-0%(w/w)0.010NDbranched and linear (DPP)131-18-0%(w/w)0.003ND	Test Report	No. CANEC23	802635601	Date: 07 Mar 202	3	Page 4 of 11
Diisobutyl Phthalate (DIBP)84-69-5% (w/w)0.003ND1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)68515-42-4% (w/w)0.010NDBis(2-methoxyethyl) Phthalate (DMEP)117-82-8% (w/w)0.003ND1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)71888-89-6% (w/w)0.010NDDiisopentyl Phthalate (DIPP)605-50-5% (w/w)0.003NDn-pentyl Isopentyl Phthalate (nPIPP)776297-69-9% (w/w)0.003ND1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP)84777-06-0% (w/w)0.003NDDipentyl Phthalates (DPENP/DnPP)131-18-0% (w/w)0.003ND	<u>Test Item(s)</u>		CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)68515-42-4%(w/w)0.010NDBis(2-methoxyethyl) Phthalate (DMEP)117-82-8%(w/w)0.003ND1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)71888-89-6%(w/w)0.010NDDiisopentyl Phthalate (DIPP)605-50-5%(w/w)0.003NDn-pentyl Isopentyl Phthalate (nPIPP)776297-69-9%(w/w)0.003ND1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP)84777-06-0%(w/w)0.010NDDipentyl Phthalates (DPENP/DnPP)131-18-0%(w/w)0.003ND	Di-n-hexyl Phthalate (DnHP)		84-75-3	%(w/w)	0.003	ND
and linear alkyl esters (DHNUP)117-82-8%(w/w)0.003NDBis(2-methoxyethyl) Phthalate (DMEP)117-82-8%(w/w)0.003ND1,2-Benzenedicarboxylic acid, di-C6-8-branched71888-89-6%(w/w)0.010NDalkyl esters, C7-rich (DIHP)605-50-5%(w/w)0.003NDDiisopentyl Phthalate (DIPP)605-50-5%(w/w)0.003NDn-pentyl Isopentyl Phthalate (nPIPP)776297-69-9%(w/w)0.003ND1,2-Benzenedicarboxylic acid, dipentyl ester,84777-06-0%(w/w)0.010NDbranched and linear (DPP)131-18-0%(w/w)0.003ND	Diisobutyl Phthalate (DIBP)		84-69-5	%(w/w)	0.003	ND
Bis(2-methoxyethyl) Phthalate (DMEP) 117-82-8 %(w/w) 0.003 ND   1,2-Benzenedicarboxylic acid, di-C6-8-branched 71888-89-6 %(w/w) 0.010 ND   alkyl esters, C7-rich (DIHP) 605-50-5 %(w/w) 0.003 ND   Diisopentyl Phthalate (DIPP) 605-50-5 %(w/w) 0.003 ND   n-pentyl Isopentyl Phthalate (nPIPP) 776297-69-9 %(w/w) 0.003 ND   1,2-Benzenedicarboxylic acid, dipentyl ester, 84777-06-0 %(w/w) 0.010 ND   branched and linear (DPP) 131-18-0 %(w/w) 0.003 ND	1,2-Benzenedicarboxylic acid, di-C7	-11-branched	68515-42-4	%(w/w)	0.010	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)71888-89-6%(w/w)0.010NDDiisopentyl Phthalate (DIPP)605-50-5%(w/w)0.003NDn-pentyl Isopentyl Phthalate (nPIPP)776297-69-9%(w/w)0.003ND1,2-Benzenedicarboxylic acid, dipentyl ester,84777-06-0%(w/w)0.010NDbranched and linear (DPP)131-18-0%(w/w)0.003ND	and linear alkyl esters (DHNUP)					
alkyl esters, C7-rich (DIHP)605-50-5%(w/w)0.003NDDiisopentyl Phthalate (DIPP)605-50-5%(w/w)0.003NDn-pentyl Isopentyl Phthalate (nPIPP)776297-69-9%(w/w)0.003ND1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP)84777-06-0%(w/w)0.010NDDipentyl Phthalates (DPENP/DnPP)131-18-0%(w/w)0.003ND	Bis(2-methoxyethyl) Phthalate (DME	EP)	117-82-8	%(w/w)	0.003	ND
Diisopentyl Phthalate (DIPP)605-50-5%(w/w)0.003NDn-pentyl Isopentyl Phthalate (nPIPP)776297-69-9%(w/w)0.003ND1,2-Benzenedicarboxylic acid, dipentyl ester,84777-06-0%(w/w)0.010NDbranched and linear (DPP)131-18-0%(w/w)0.003ND	1,2-Benzenedicarboxylic acid, di-C6	-8-branched	71888-89-6	%(w/w)	0.010	ND
n-pentyl Isopentyl Phthalate (nPIPP) 776297-69-9 %(w/w) 0.003 ND 1,2-Benzenedicarboxylic acid, dipentyl ester, 84777-06-0 %(w/w) 0.010 ND branched and linear (DPP) Dipentyl Phthalates (DPENP/DnPP) 131-18-0 %(w/w) 0.003 ND	alkyl esters, C7-rich (DIHP)					
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP)84777-06-0 131-18-0%(w/w)0.010NDDipentyl Phthalates (DPENP/DnPP)131-18-0%(w/w)0.003ND	Diisopentyl Phthalate (DIPP)		605-50-5	%(w/w)	0.003	ND
branched and linear (DPP)131-18-0%(w/w)0.003ND	n-pentyl Isopentyl Phthalate (nPIPP)	1	776297-69-9	%(w/w)	0.003	ND
Dipentyl Phthalates (DPENP/DnPP)131-18-0%(w/w)0.003ND	1,2-Benzenedicarboxylic acid, dipen	tyl ester,	84777-06-0	%(w/w)	0.010	ND
	branched and linear (DPP)					
	Dipentyl Phthalates (DPENP/DnPP)		131-18-0	%(w/w)	0.003	ND
1,2-Benzenedicarboxylic acid, dihexyl ester 68515-50-4 %(w/w) 0.010 ND	1,2-Benzenedicarboxylic acid, dihex	yl ester	68515-50-4	%(w/w)	0.010	ND
branched and linear(DHP)	branched and linear(DHP)					
Dimethyl Phthalate (DMP)   131-11-3   %(w/w)   0.003   ND	Dimethyl Phthalate (DMP)		131-11-3	%(w/w)	0.003	ND

#### Notes :

(1) DBP,BBP,DEHP, DIBP Reference information: Entry 51 of Regulation (EU) 2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:

i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.

ii) Shall not be placed on the market in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material. In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.

iii) shall not be placed on the market after 7 July 2020 in articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material in the articles.

Please refer to Regulation (EU) 2018/2005 to get more detail information

(2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EU) 2015/326 amending Annex XVII of REACH Regulation (EC) No 1907/2006.

i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.

ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EU) 2015/326 to get more detail information

#### Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives

Test Method : With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS.



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<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Perfluorooctanoic acid (PFOA) and its salts*	-	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its salts*	-	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide(N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido) -ethanol(N-MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol(N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its	-	mg/kg	-	ND
derivatives				

#### Notes :

(1) PFOA and its salts\* including PFOA (CAS No. 335-67-1), APFO (CAS No. 3825-26-1), PFOA-Na (CAS No. 335-95-5), PFOA-K (CAS No. 2395-00-8), PFOA-Ag (CAS No. 335-93-3) and PFOA-F (CAS No. 335-66-0). The result of PFOA is used to represent PFOA and its salts.

(2) PFOS and its salts\* including PFOS (CAS No. 1763-23-1), POSF(CAS No. 307-35-7), PFOS-K (CAS No. 2795-39-3), PFOS-NH₄ (CAS No. 29081-56-9), PFOS-N(C₁₀H₂₁)₂(CH₃)₂ (CAS No. 251099-16-8), PFOS-NH<sub>2</sub>(C<sub>2</sub>H<sub>4</sub>OH)<sub>2</sub> ( CAS No. 70225-14-8), PFOS-Li (CAS No. 29457-72-5), PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> (CAS No. 56773-42-3) and PFOS-Na (CAS No. 4021-47-0). The result of PFOS is used to represent PFOS and its salts.

#### Flame retardant(s)

Test Method : With reference to EPA 3550C:2007, analysis was performed by GC-MS / HPLC-DAD/MS.

Test Item(s)	CAS NO.	<u>Unit</u>	MDL	<u>001</u>
Hexabromocyclododecane (HBCDD) and all major	25637-99-4	mg/kg	10	ND
diastereoisomers identified (α-HBCDD, β-HBCDD,	3194-55-6			
γ-HBCDD)	134237-50-6			
	134237-51-7			
	134237-52-8			

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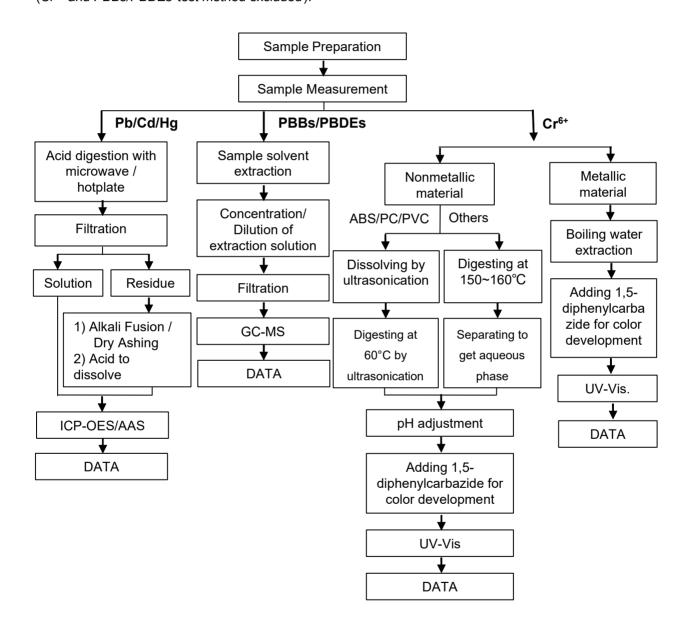
Date: 07 Mar 2023

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### ATTACHMENTS

#### Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

- 1) Name of the person who made testing: Edith Zhang/Blue Lan/Judy Chen
- 2) Name of the person in charge of testing: Bella Wang/Qiong Liu
- These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).





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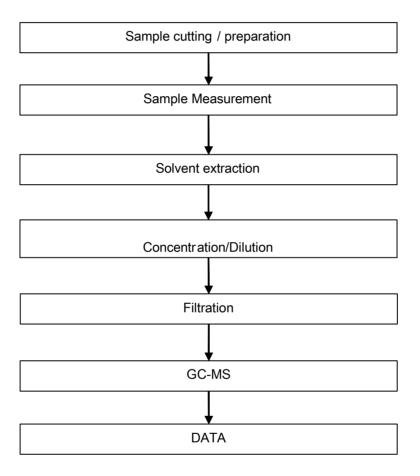
Date: 07 Mar 2023

### ATTACHMENTS

#### Phthalates Testing Flow Chart

1) Name of the person who made testing: Judy Chen

2) Name of the person in charge of testing: Qiong Liu





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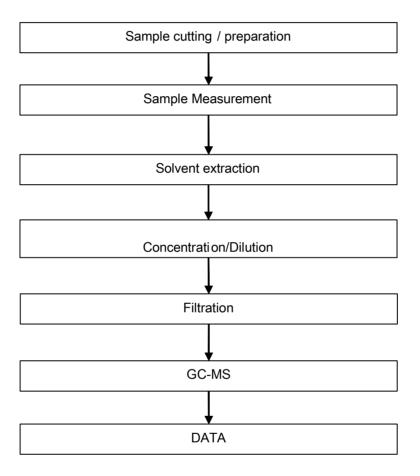
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### ATTACHMENTS

#### **HBCDD** Testing Flow Chart

1) Name of the person who made testing: Judy Chen

2) Name of the person in charge of testing: Qiong Liu





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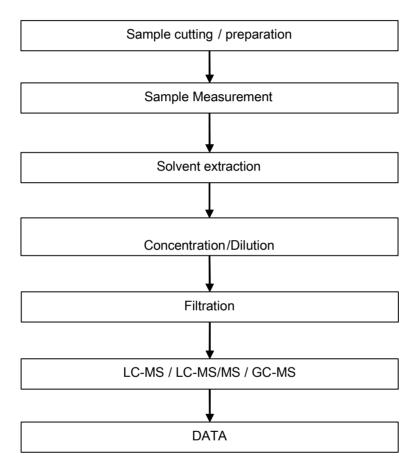
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## ATTACHMENTS

### **PFAS Testing Flow Chart**

1) Name of the person who made testing: Olivia Li

2) Name of the person in charge of testing: Qiong Liu





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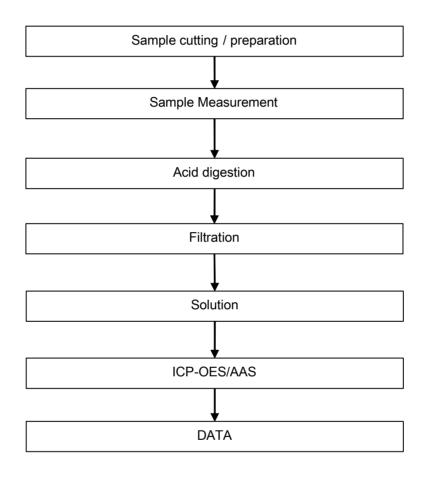
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### ATTACHMENTS

#### **Elementary Testing Flow Chart**

1) Name of the person who made testing: Edith Zhang

2) Name of the person in charge of testing: Bella Wang





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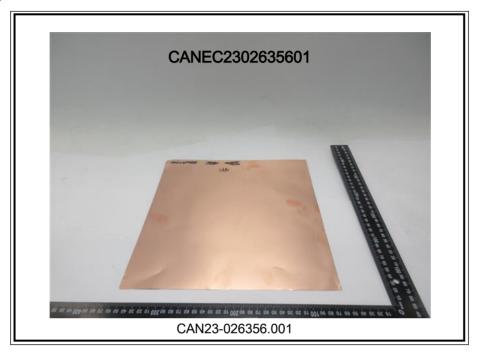
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