

st Report	No.:	SHAEC24028769413	Date:	Dec 30, 2024	Page 1 of 19				
Client Name:	YANGZHOU Y	ANGJIE ELECTRONIC TE	CHNOLOGY	CO., LTD.					
Client Address: NO.68, WEST NEW GANQUAN ROAD, WEIYANG ECONOMIC DEVELOPMENT ZONE, HANJIANG DISTRICT, YANGZHOU, JIANGSU, CHINA									
Sample Name:	S	mall Signal (Pb)							
Client Ref. Information: 1.Tin ball; 7.Molding Compound (halogen Free 2); 26.Solder Paste/Solder Perform/Solder Wire; 27.Copper Wire; 28.Au Flashed Pd Copper Wire; 29.Pd Copper Wire; 31.Lead Frame(Cu Fe Ag); 32.Lead Frame(Cu Sn Ag); 33.Lead Frame (Fe Ni); 34.Molding Compound (halogen Free 5); 42.Lead Frame (Cu Ag)1; 44.Lead Frame (Cu Ag)2 The above sample(s) and information were provided by the client.									
SGS Job No.:	S	HP24-040813							
Sample Receivin	g Date: D	Dec 16, 2024							
Testing Period:	D	ec 16, 2024 ~ Dec 23, 2024	Ļ						
Test Requested:	S	elect test(s) as requested by	y the client.						
Test Method(s):	Р	lease refer to next page(s).							
Test Result(s):	Р	lease refer to next page(s).							
Test Requirem	ent			(Conclusion				
- Lead, Mercury	, Caḋmium, H	5/863 amending Annex II to exavalent chromium, Polybi nyl ethers (PBDE), Bis(2-eth	rominated bip	ohenyls	Pass				

Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

and Luo

Carol Luo Approved Signatory





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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA24-0287694-0001.C001	Silvery metal
SN2	A7	SHA24-0287694-0001.C007	Gray solid
SN3	A26	SHA24-0287694-0001.C026	Silvery metal wire
SN4	A27	SHA24-0287694-0001.C027	Copper metal wire
SN5	A28	SHA24-0287694-0001.C028	Silvery metal wire
SN6	A29	SHA24-0287694-0001.C029	Silvery metal wire
SN7	A31	SHA24-0287694-0001.C031	Copper/silvery metal
SN8	A32	SHA24-0287694-0001.C032	Copper/silvery metal
SN9	A33	SHA24-0287694-0001.C033	Silvery metal
SN10	A34	SHA24-0287694-0001.C034	Gray solid
SN11	A42	SHA24-0287694-0001.C042	Copper metal
SN12	A44	SHA24-0287694-0001.C044	Copper metal

Remarks:

- (1) 1 mg/kg = 1 ppm = 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 (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A7	A34
Lead (Pb)	1000	mg/kg	2	ND	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A7	A34
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND	ND
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND	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.

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1	A27	A28
Lead (Pb)	1000	mg/kg	2	38	ND	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND	ND	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND	ND	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND	ND	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND	ND	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND	ND	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND	ND	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND	ND	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND	ND	ND



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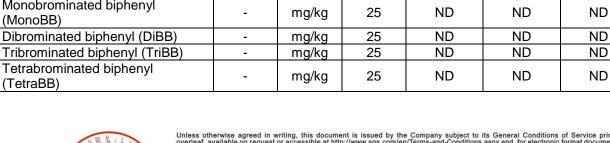
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Test Item(s)	Limit	Unit(s)	MDL	A1	A27	A28
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND	ND	ND
Octabrominated biphenyl OctaBB)	-	mg/kg	25	ND	ND	ND
Nonabrominated biphenyl NonaBB)	-	mg/kg	25	ND	ND	ND
Decabrominated biphenyl DecaBB)	-	mg/kg	25	ND	ND	ND
Polybrominated diphenyl ethers PBDE)	1000	mg/kg	-	ND	ND	ND
Monobrominated diphenyl ether MonoBDE)	-	mg/kg	25	ND	ND	ND
Dibrominated diphenyl ether DiBDE)	-	mg/kg	25	ND	ND	ND
Tribrominated diphenyl ether TriBDE)	-	mg/kg	25	ND	ND	ND
Tetrabrominated diphenyl ether TetraBDE)	-	mg/kg	25	ND	ND	ND
Pentabrominated diphenyl ether PentaBDE)	-	mg/kg	25	ND	ND	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND	ND	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND	ND	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND	ND	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND	ND	ND
Decabrominated diphenyl ether DecaBDE)	-	mg/kg	25	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate DEHP)	1000	mg/kg	50	ND	ND	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	ND	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND	ND	ND
Test Item(s)	Limit	Unit(s)	MDL	A29	A31	A32
Lead (Pb)	1000	mg/kg	2	ND	9	13
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm ²	0.10	ND	ND	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND	ND	ND
Monobrominated biphenyl MonoBB)	-	mg/kg	25	ND	ND	ND
Dibrominated binbanyd (DiDD)			05			





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Test Item(s)	Limit	Unit(s)	MDL	A29	A31	A32
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND	ND	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND	ND	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND	ND	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND	ND	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND	ND	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND	ND	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND	ND	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND	ND	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND	ND	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND	ND	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND	ND	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND	ND	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND	ND	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND	ND	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND	ND	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND	ND	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND	ND	ND
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND	ND	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	ND	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND	ND	ND

Test Item(s)	Limit	Unit(s)	MDL	A33	A42	A44
Lead (Pb)	1000	mg/kg	2	ND	6	ND
Mercury (Hg)	1000	mg/kg	2	ND	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND	ND	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND	ND	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND	ND	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A33	A42	A44	
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND	ND	ND	
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND	ND	ND	
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND	ND	ND	
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND	ND	ND	
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND	ND	ND	
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND	ND	ND	
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND	ND	ND	
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND	ND	ND	
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND	ND	ND	
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND	ND	ND	
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND	ND	ND	
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND	ND	ND	
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND	ND	ND	
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND	ND	ND	
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND	ND	ND	
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND	ND	ND	
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND	ND	ND	
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND	ND	ND	
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND	ND	ND	
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND	ND	ND	
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	ND	ND	
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND	ND	ND	
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND	ND	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) ▼ = a. 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. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-Cr(VI) based coating.



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c. The result between 0.10 μg/cm² and 0.13 μg/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Test Method: With reference to Titration method, IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A26
Lead(Pb)	0.1	%	-	92.5▲
Mercury(Hg)	1000	mg/kg	2	ND
Cadmium(Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI)) ▼	-	µg/cm²	0.10	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDÉ)	-	mg/kg	25	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND



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	Test Item(s)			Limit	Unit(s)	MDL	A26	
	Diisobutyl phthalate (I	DIBP)		1000	mg/kg	50	ND	

Notes:

Т

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

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

- (3) ▼ = a. 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. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 μg/cm²). The coating is considered a non-Cr(VI) based coating.
 - c. The result between 0.10 μ g/cm² and 0.13 μ g/cm² is considered to be inconclusive-unavoidable coating variations may influence the determination.

▲ According to the declaration from the client, Lead (Pb) in No.A26 is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 7(a)|: Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).

More information about exemption can be found via the following link:

https://rohs.sgsonline.com.cn/PDFLinks/en/RSTS-TP-037%20RoHS%20Exemption%20%28EN%29.pdf 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.



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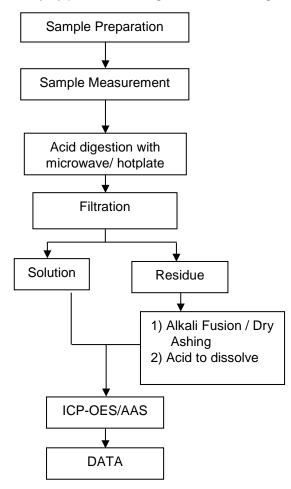


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Elements Testing Flow Chart

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





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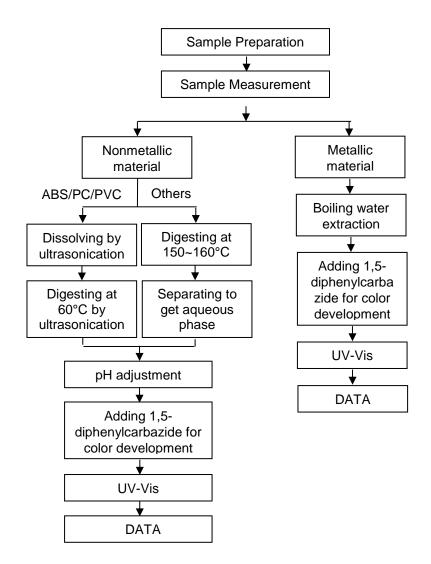
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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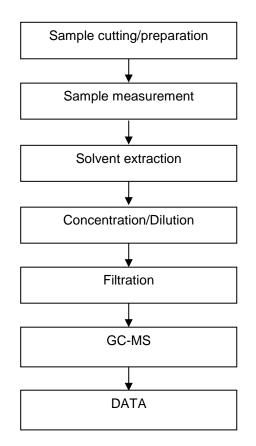
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PBB/PBDE/Phthalates Testing Flow Chart





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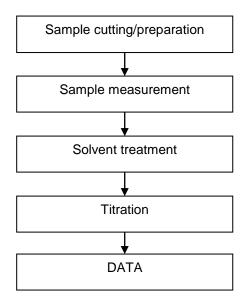
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Titration Testing Flow Chart





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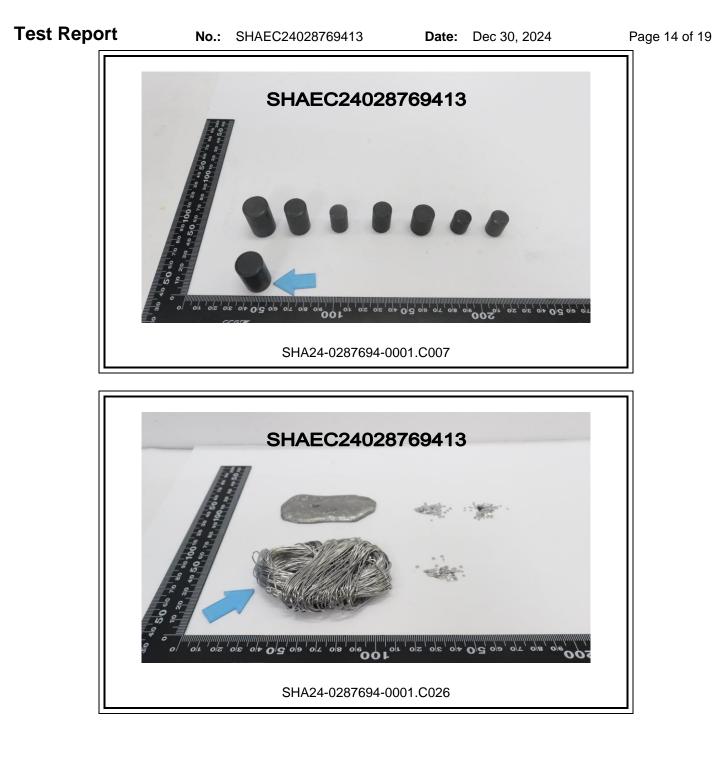




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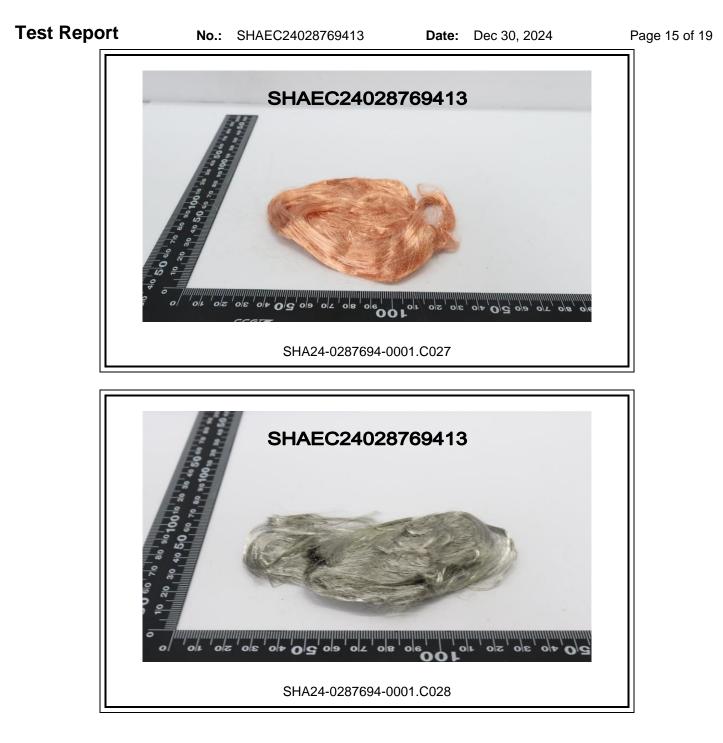






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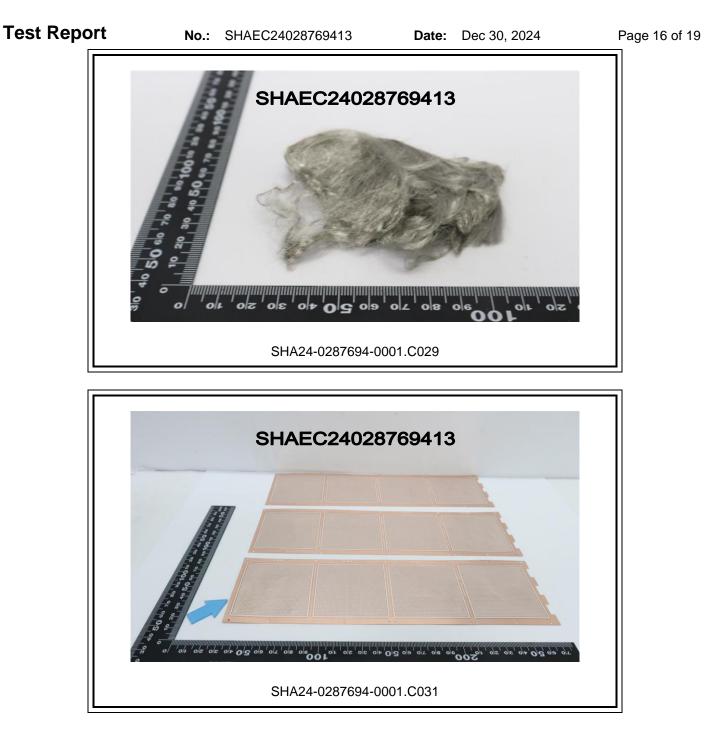






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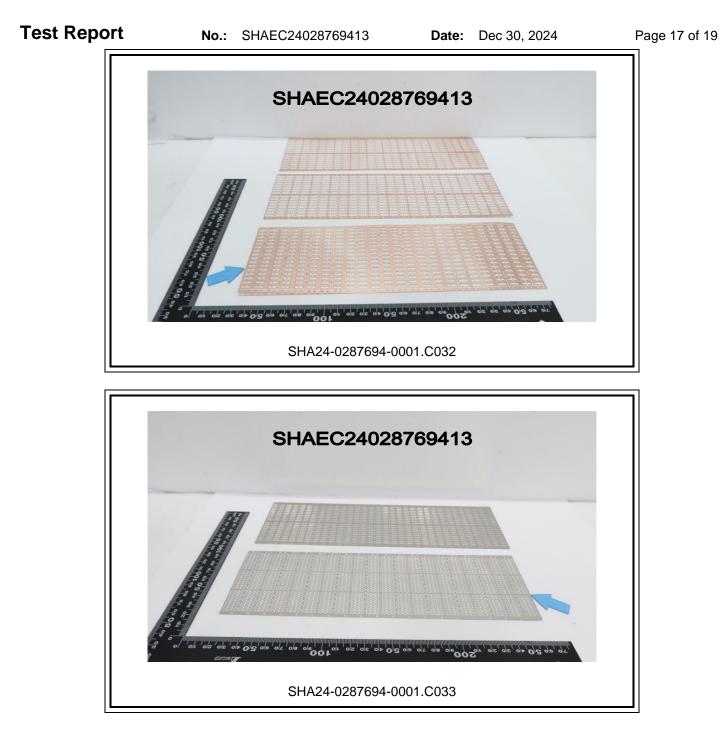






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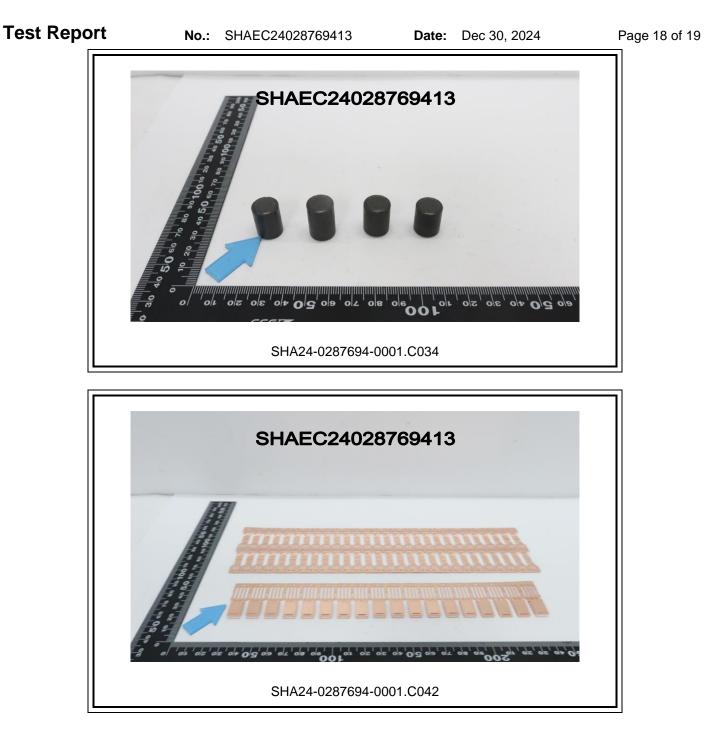




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