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Fest Report	N.a.		Data	Max 00, 0	004	
•		CANEC24004133506		Mar 26, 2	024	Page 1 of 1
		SEMICONDUCTORS CO.,I				
		NG 7TH ROAD, BAOLONG GUANGDONG	INDUSTRI	AL PARK, L	ONGGANG ,	
Sample Name:	tra	ansistor (MOS eco-friendly/h	igh temp.so	older/coppei	r lead frame)	
The above sample(s) and inforr	nation were provided by the	client.			
SGS Job No.:	S	ZP24-008714				
Sample Receiving D	ate: M	ar 11, 2024				
Testing Period:	Μ	ar 11, 2024 ~ Mar 23, 2024				
Test Requested:	S	elect test(s) as requested by	the client.			
Test Method(s):	PI	ease refer to next page(s).				
Test Result(s):	PI	ease refer to next page(s).				
Test Requirement					Conclus	sion
- Lead, Mercury, Ca (PBB), Polybromina	admium, He ated dipher	/863 amending Annex II to D exavalent chromium, Polybro nyl ethers (PBDE), Bis(2-ethy e (BBP), Dibutyl phthalate (D	ominated bip (Ihexyl) phth	phenyls halate	Pass	3
		/863 amending Annex II to D Cadmium and Hexavalent ch			Pass	3
Perfluorooctane sul acid (PFOA) and its		FOS) and its derivatives and	Perfluoroo	ctanoic	See Res	sults
Halogen					See Res	sults
Element(s)					See Res	sults
Red Phosphorus					See Res	sults
Dimethyl fumarate	(DMFu)				See Res	sults

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

Allie Chen

Allie Chen Approved Signatory



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Test Report

No.: CANEC24004133506

Date: Mar 26, 2024

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A5	CAN24-0041335-0001.C005	Black plastic A5
SN2	A6	CAN24-0041335-0001.C006	Silvery plated metal A6
SN3	A7	CAN24-0041335-0001.C007	Copper-colored metal sheet with silvery surface&chip A7
SN4	A8	CAN24-0041335-0001.C008	Silvery plating on metal A8

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, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A5
Lead (Pb)	1000	mg/kg	2	5
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND



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t Report No.: CANEC24	4004133506	Date: Ma	ar 26, 2024	Page 3 of 1
Test Item(s)	Limit	Unit(s)	MDL	A5
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	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
Diisobutyl phthalate (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.

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium and Hexavalent chromium

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

Test Item(s)	Limit	Unit(s)	MDL	A8
Lead (Pb)	1000	mg/kg	10	52
Mercury (Hg)	1000	mg/kg	10	ND
Cadmium(Cd)	100	mg/kg	10	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	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.
 - 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.

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.



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Test Report

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Test Method:

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

Test Item(s)	Limit	Unit(s)	MDL	A6	A7
Lead (Pb)	1000	mg/kg	2	ND	14944▲
Mercury (Hg)	1000	mg/kg	2	ND	ND
Cadmium (Cd)	100	mg/kg	2	ND	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND	ND

Notes:

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

No.: CANEC24004133506

(2) IEC 62321 series is equivalent to EN 62321 series.
 (3) ▼ = a. The sample is positive for Cr(VI) if the 0

- 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 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.

(4) ▲: According to the declaration from the client, Lead (Pb) in specimen A7 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

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

Test Method: Modified CEN/TS 15968:2010, analysis was performed by HPLC-MS or LC-MS/MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A5
PFOS and its derivatives	-	mg/kg	-	ND
Perfluorooctane sulfonates (PFOS), its salts [^]	1763-23-1	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
2-(N-ethylperfluoro-1- octanesulfonamido) -ethanol (N- EtFOSE)	1691-99-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1- octanesulfonamido) -ethanol (N- MeFOSE)	24448-09-7	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA), its salts^	754-91-6	mg/kg	0.010	ND
Perfluorooctanoic acid (PFOA), its salts^	335-67-1	mg/kg	0.010	ND

Notes:

1. ^=Substances refer to its salts/derivative listed in below table.



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Substance Nam	e		CAS No.
PFOS, its salts a	& derivatives		
Perfluorooctane	sulfonates (PFOS)		1763-23-1
Potassium Perflu	orooctanesulfonate (PFOS-K)		2795-39-3
Perfluorooctanes	ulfonic acid, lithium salt (PFOS-Li)		29457-72-5
Sodium perfluoro	octanesulfonate (PFOS-Na)		4021-47-0
Ammonium perflu	uorooctanesulfonate (PFOS-NH4)		29081-56-9
Perfluorooctane	sulfonate diethanolamine salt (PFOS-NH	I ₂ (C ₂ H ₄ OH) ₂)	70225-14-8
Perfluorooctanes	ulfonic acid,tetraethylammonium salt (PF	-OS-N(C ₂ H ₅) ₄)	56773-42-3
	ethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5 octane-1-sulfonate (PFOS-N(C ₁₀ H ₂₁) ₂ (CF		251099-16-8
Perfluorooctane	Sulfonyl fluoride (PFOS-F)		307-35-7
Magnesium bis(h	eptadecafluorooctanesulphonate) (PFO	S-Mg)	91036-71-4
Piperidine 1,1,2,2	2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluo	rooctanesulfonate	71463-74-6
PFOSA, its salts	3		
Perfluorooctane	Sulfonamide (PFOSA)		754-91-6
Perfluorooctanes	ulfonamide lithium salt (1:1) (PFOSA-Li)		76752-79-9
PFOA, its salts			
Perfluorooctanoio	c acid (PFOA)		335-67-1
Sodium perfluoro	octanoate (PFOA-Na)		335-95-5
Potassium perflu	orooctanoate (PFOA-K)		2395-00-8
Silver perfluorood	ctanoate (PFOA-Ag)		335-93-3
Perfluorooctanoy	I fluoride (PFOA-F)		335-66-0
Ammonium penta	adecafluorooctanoate (APFO)		3825-26-1
Lithium perfluoro	octanoate(PFOA-Li)		17125-58-5

Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit(s)	MDL	A5
Fluorine(F)	mg/kg	20	ND
Chlorine(CI)	mg/kg	50	87
Bromine(Br)	mg/kg	50	ND
lodine(l)	mg/kg	50	ND

Element(s)

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

Test Item(s)	Unit(s)	MDL	A5
Antimony Trioxide(Sb ₂ O ₃) ◆	mg/kg	12	ND



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Notes:

◆ Calculated concentration of Sb₂O₃ are based on the identified Sb.

Red Phosphorus

Test Method: SGS In-house method (SGS-CCL-TOP-215-01), analysis was performed by PY-GC/MS/ ICP-OES / GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A5
Red Phosphorus	7723-14-0	mg/kg	500	ND

Dimethyl fumarate (DMFu)

Test Method: Solvent extraction, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A5
Dimethyl Fumarate (DMFu)	624-49-7	mg/kg	0.1	ND

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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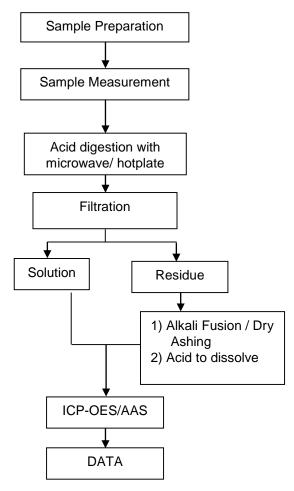
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Elements Testing Flow Chart

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





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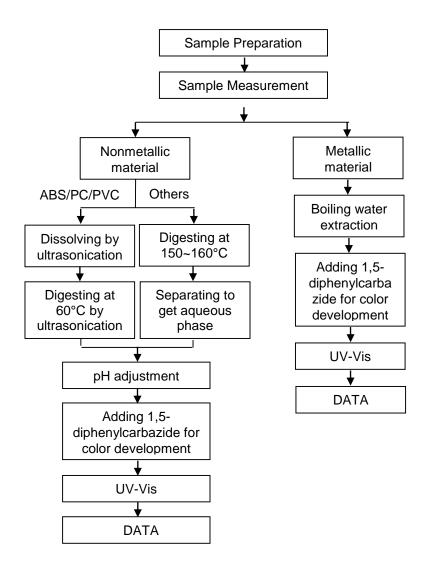
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





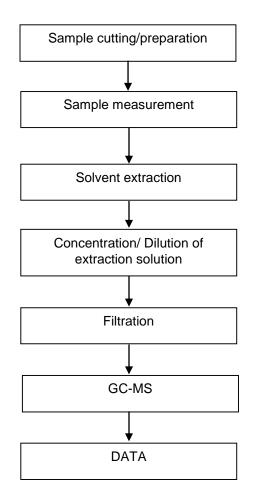
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PBB/PBDE Testing Flow Chart





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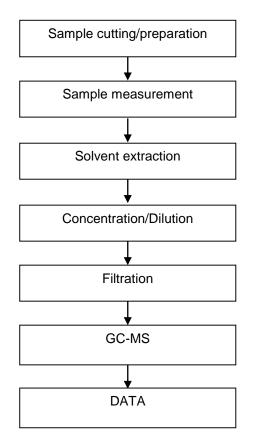
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Phthalates Testing Flow Chart





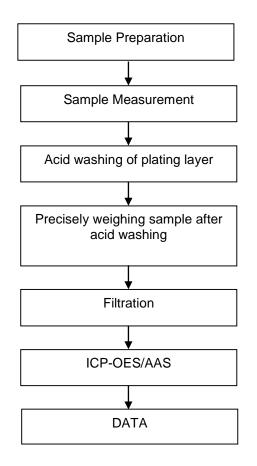
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Plating Element Testing Flow Chart





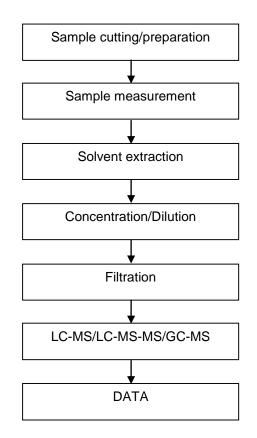
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PFASs/ PFOS/PFOA Testing Flow Chart





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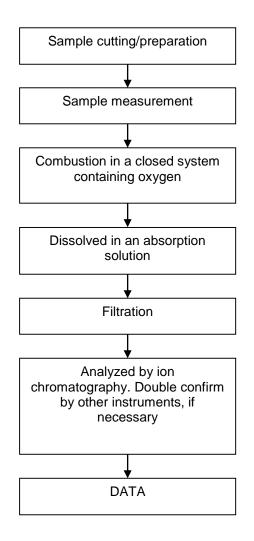
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Halogen Testing Flow Chart





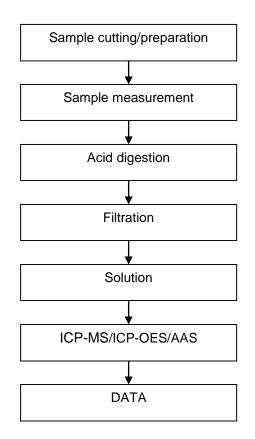
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Elements Testing Flow Chart





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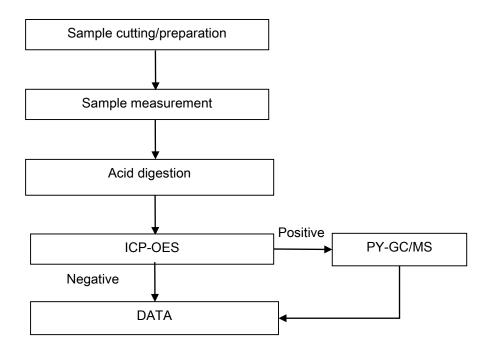
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ATTACHMENTS

Red phosphorus Testing Flow Chart





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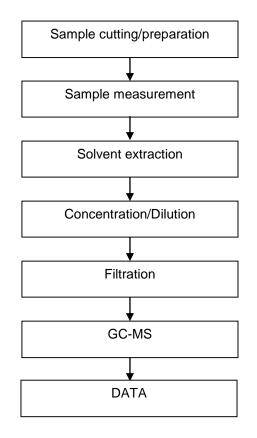
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DMF (Dimethyl fumarate) Testing Flow Chart





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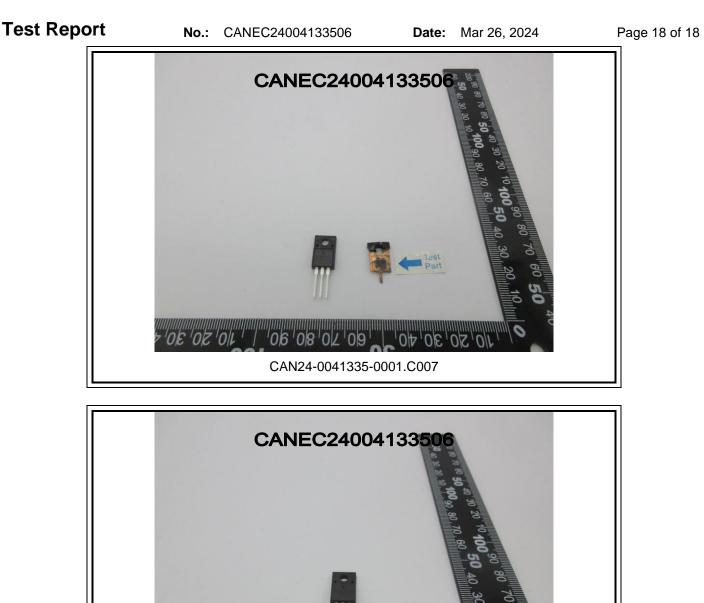
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