

est Report	No.:	SZXEC23000164703	Date:	Mar 03, 2023	Page 1 of 8	
Client Name:	SHENZHEN W	ORLD INDUSTRIAL CO.,LT	D.			
		AOYE CALLIGRAPHY AND F , LONGGANG DISTRICT, SH		EXCHANGE SQU	ARE, NO.245	
Sample Name:	G	PP WAFER				
The above samp	ele(s) and inform	mation were provided by the c	lient.			
SGS Job No.:	R	P23-003818				
Sample Receivir	ng Date: Fo	eb 28, 2023				
Testing Period:	F	Feb 28, 2023 - Mar 03, 2023				
Test Requested:	S	elect test(s) as requested by t	he client.			
Test Method(s):	Р	lease refer to next page(s).				
Test Result(s):	Р	lease refer to next page(s).				
Test Requirem					Conclusion	
	. ,	5/863 amending Annex II to Di				

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominatedbiphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Dibutyl phthalate(DBP), Butyl benzyl phthalate (BBP), Bis(2-ethylhexyl) phthalate (DEHP), andDiisobutyl phthalate (DIBP)

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

Fay Yuan Approved Signatory





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### **Test Report**

### No.: SZXEC23000164703

Date: Mar 03, 2023

### Test Result(s):

**Test Part Description:** 

SN ID	Sample No.	SGS Sample ID	Description
SN1	A4	SZX23-0001647-0001.C004	"GPP WAFER"

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 (PBBs), Polybrominated diphenyl ethers (PBDEs), Dibutyl phthalate (DBP), Butyl benzyl phthalate (BBP), Bis(2-ethylhexyl) phthalate (DEHP), 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, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A4
Cadmium(Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	29632▲
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBBs)	1000	mg/kg	-	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND
Tribromobiphenyl (TriBB)	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	-	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	-	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs)	1000	mg/kg	-	ND
Monobromodiphenylether (MonoBDE)	-	mg/kg	5	ND
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND
Tetrabromodiphenylether (TetraBDE)	-	mg/kg	5	ND
Pentabromodiphenylether (PentaBDE)	-	mg/kg	5	ND
Hexabromodiphenylether (HexaBDE)	-	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND
Octabromodiphenylether (OctaBDE)	-	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE)		mg/kg	5	ND
Decabromodiphenylether (DecaBDE)		mg/kg	5	ND
Dibutyl Phthalate(DBP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	1000	mg/kg	50	ND



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les	st Report	No.:	SZXEC23000164703	Date:	Ma	ar 03, 2023	3	Page 3 of	8
	Test Item(s)			Limi	t	Unit(s)	MDL	A4	
	Bis-(2-ethylhexyl) Phthalate(DEHP)			1000	)	mg/kg	50	ND	
	Diisobutyl Phthalate(	DIBP)		1000	)	mg/kg	50	ND	

#### Notes:

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(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.

Remark A: According to the declaration from the client, Lead (Pb) in No.A4 is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 7(a)|: Lead in high melting temperature type solders (i.e. leadbased alloys containing 85 % by weight or more lead).

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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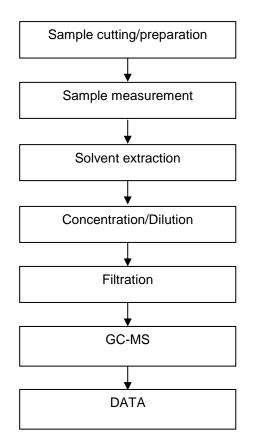


### **Test Report ATTACHMENTS**

#### No.: SZXEC23000164703

Date: Mar 03, 2023

#### **Phthalates Testing Flow Chart**





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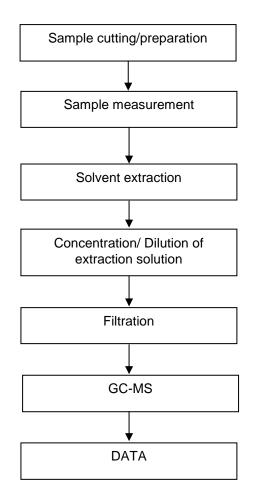
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### **PBBs/PBDEs Testing Flow Chart**





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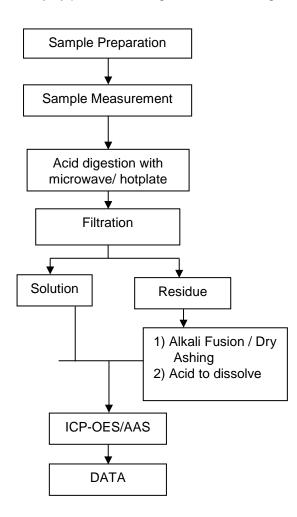
No.: SZXEC23000164703

Date: Mar 03, 2023

Page 6 of 8

### Elements (IEC62321) Testing Flow Chart

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





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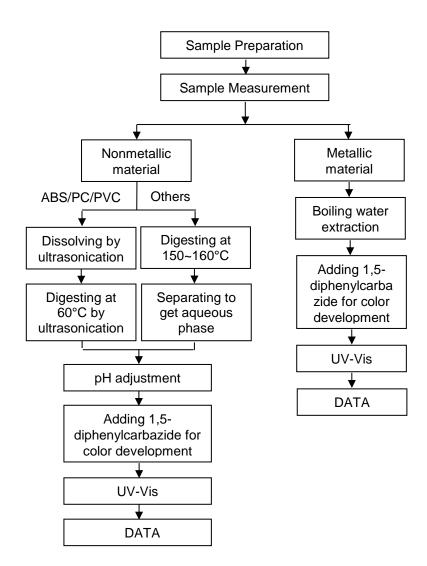


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### Hexavalent Chromium (Cr(VI)) Testing Flow Chart

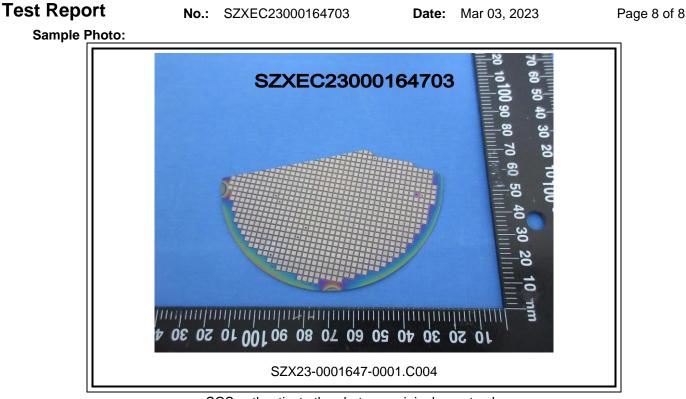




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