

st Report	No.:	SZXEC25000189209	Date:	Jan 24, 202	5 Page 1 of 8
Client Name: SH	HENZHEN S	CTF ELECTRONICS CO.,	LTD		
Client Address: 10/F, BUILDING T2,FANGDACHENG,LONGZHU 4TH ROAD, NANSHAN DISTRICT, SHENZHEN, CHINA					
Sample Name:	С	rystal Resonator			
Model No.:	Н	C-49S			
Client Ref. Informa	Н	C-49S,HC-49SMD,HC- C-49U,UM-1,UM-5 CTF	M49S,HC-N	149SMD,	
Supplier:	_	CTF			
	(s) and inform	mation were provided by th	e client.		
SGS Job No.:	S	ZP25-002948			
Sample Receiving	Date: Ja	an 17, 2025			
Testing Period:	Ja	an 17, 2025 ~ Jan 24, 2029	5		
Test Requested:	S	elect test(s) as requested I	by the client.		
Test Method(s):	Р	lease refer to next page(s)			
Test Result(s):	Ρ	lease refer to next page(s)			
Test Requirement	nt				Conclusion
(PBB), Polybromi	nated dipher	xavalent chromium, Polybr nyl ethers (PBDE), Bis(2-et e (BBP), Dibutyl phthalate	hylhexyl) phth	alate	See Results

 Lead, Mercury, Cadmium and Hexavalent chromium
 See Results

 Halogen
 See Results

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

lina

Tina Fan Approved Signatory





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# **Test Report**

#### No.: SZXEC25000189209

Date: Jan 24, 2025

#### Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A5	SZX25-0001892-0001.C005	Silvery body (mixed)
SN2	A6	SZX25-0001892-0001.C006	Silvery metal pin

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

# Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DIBP) 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)	Unit(s)	MDL	A5
Lead (Pb)	mg/kg	2	6
Mercury (Hg)	mg/kg	2	ND
Cadmium (Cd)	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	mg/kg	8	ND
Polybrominated biphenyls (PBB)	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)	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	mg/kg	25	ND
Dibrominated diphenyl ether (DiBDE)	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDE)	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



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Test Item(s)		Unit(s)	MDL	A5
Octabrominated dip (OctaBDE)	ohenyl ether	mg/kg	25	ND
Nonabrominated di (NonaBDE)	phenyl ether	mg/kg	25	ND
Decabrominated di (DecaBDE)	phenyl ether	mg/kg	25	ND
Di-2-Ethyl Hexyl Ph	nthalate (DEHP)	mg/kg	50	ND
Benzyl Butyl Phtha	late (BBP)	mg/kg	50	ND
Dibutyl Phthalate (I	OBP)	mg/kg	50	ND
Diisobutyl Phthalate	e (DIBP)	mg/kg	50	ND

#### 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)	Unit(s)	MDL	A6
Lead (Pb)	mg/kg	2	ND
Mercury (Hg)	mg/kg	2	ND
Cadmium (Cd)	mg/kg	2	ND
Hexavalent Chromium (Cr(VI)) <sup>▼</sup>	µg/cm²	0.10	ND

Notes:

- (1) ▼ = a. The sample is positive for Cr(VI) if the Cr(VI)concentration is greater than 0.13 µg/cm<sup>2</sup>. 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/cm<sup>2</sup>). The coating is considered a non-Cr(VI) based coating.
  - c. The result between 0.10  $\mu$ g/cm<sup>2</sup> and 0.13  $\mu$ g/cm<sup>2</sup> 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.

#### <u>Halogen</u>

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(Cl)	mg/kg	50	ND
Bromine(Br)	mg/kg	50	ND
lodine(l)	mg/kg	50	ND

Remark: The sample(s) of A5 was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference. 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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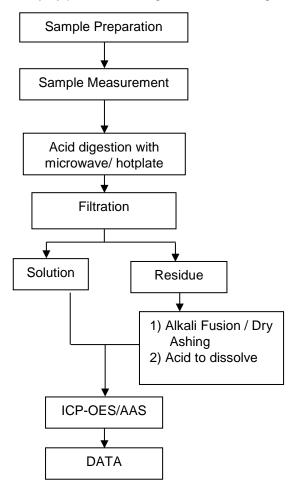


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#### **Elements Testing Flow Chart**

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





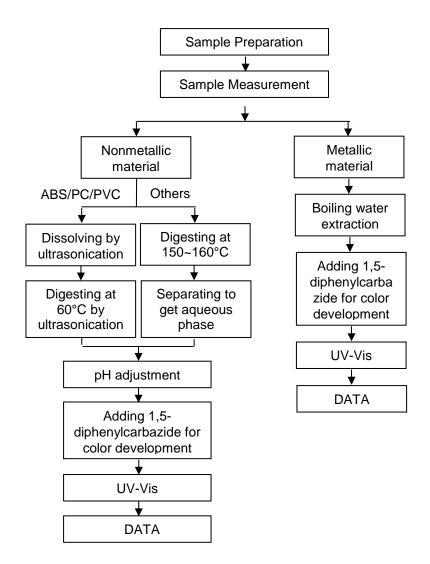
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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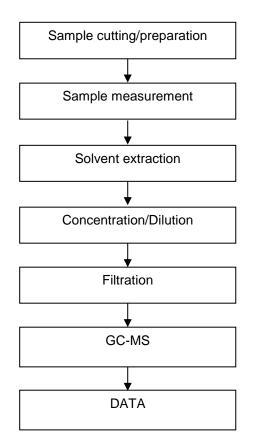
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#### **PBB/PBDE/Phthalates Testing Flow Chart**





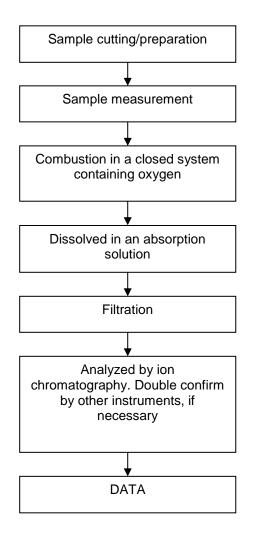
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#### Halogen Testing Flow Chart

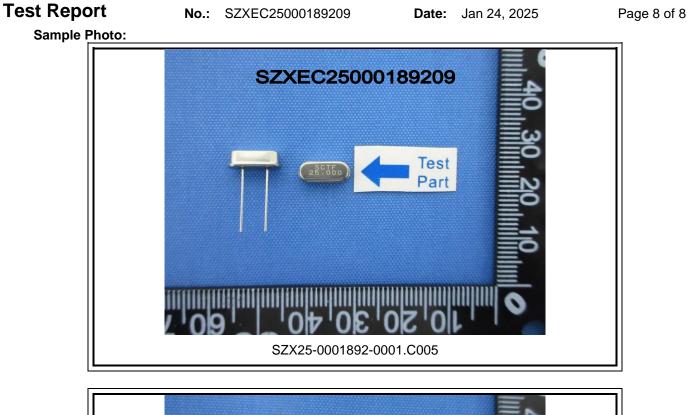


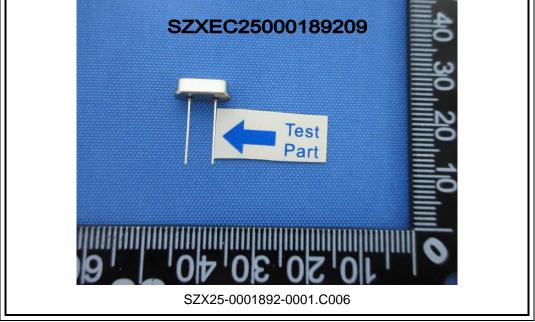


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