

Report No. BCTCY2003000213R

Applicant : Shenzhen Jubaopen Stationery & Gift Co., Ltd

Address : No.89, 27th Building, The Second industrial Village of Songgang Town,

Bao'an District, Shenzhen, Guangdong

The submitted sample and sample information was/were submitted and identified by/on the behalf

of the client

Sample name : Stylus Pen

Testing type /model : P136

Additional type /model : P136A, P248, P248A, P196, P249, P189, P195, P200, P198, P207, P191,

P104, P098, P160, P202, P110, P201, P122, P208, M305A

Date: Mar. 17, 2020

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Test age group : 0+

Manufacturer : Shenzhen Jubaopen Stationery & Gift Co., Ltd

Address : No.89, 27th Building, The Second industrial Village of Songgang Town,

Bao'an District, Shenzhen, Guangdong

Sample received date : Mar. 10, 2020

**Testing period** : Mar. 10, 2020 - Mar. 17, 2020

Executive Summary:	BCIC					
TEST REQUEST	CONCLUSION					
European Standard on Safety of Toys	CONCLUSION					
- EN 71-1:2014+A1:2018 Mechanical and Physical Properties	TC PASS					
- EN 71-2:2011+A1:2014 Flammability of Toys	PASS					
- EN 71-3:2019 Migration of certain elements	PASS CTC					
For chemical test, the tested component(s) is/are identified by the applicant.						

\*\*\*\*\*For more detailed information, please refer to the next page\*\*\*\*\*

Tested by

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Zuxiang Li

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APPROVED

Approved by Arev Chem

Hanyao Chen



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### **Tested Sample/Part Description:**

- 1 White metal
- 2 Silver metal
- 3 Silver-white metal

### Test Result(s):

TC

Mechanical and physical properties

As specified in European Standard on Safety of Toys EN 71 part 1: 2014+A1:2018.

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	Clause	Description	Assessment
	4	General requirements	-
	4.1	Material cleanliness	Pass
	4.7	Edges	Pass
RC	4.8	Points and metallic wires	Pass
	5.1	General requirements	
	5.1a	Small part requirement on toys & removable Components (Test method 8.2)	Pass
		Torque test (Test method 8.3)	Pass
		Tension test (Test method 8.4)	Pass
	BCTC	Drop test (Test method 8.5)	Pass
	5.1b	Compression test (Test method 8.8)	Pass
		Sharp edge (Test method 8.11)	Pass
rC.		Sharp point (Test method 8.12)	Pass

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#### Note:

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-Only applicable clause(s) was/ were shown.

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### ♦ Flammability of toys

As specified in European Standard on Safety of Toys EN 71 part 2:2011+A1:2014.

Clause	Description	Do.	Assessment
4.1	General	BCTC	Pass

#### Note:

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- 4.1 The following materials shall not be used in the manufacture of toys:
- Celluloid (cellulose nitrate), except when used in varnish, paint or glue, or in balls of the type used for table tennis or similar games, and materials with the same behaviour in fire as celluloid. Specific materials to which the test flame is applied in order to check compliance of the toy with requirements in 4.2 to 4.5 are considered to comply with this requirement if the toy meets its appropriate requirements in 4.2 to 4.5;
- Materials with a piled surface which produce surface flash on the approach of a flame. Piled surfaces showing no momentary area of flame over the area of the piled surface remote from the test flame are considered to meet this requirement; BCTC BCTC
- Highly flammable solids.

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In addition, toys shall not contain flammable gases, highly flammable liquids, flammable liquids, flammable gels except as provided for below:

- Flammable liquids, flammable gels and preparations supplied in sealed containers having a maximum volume of 15 ml per container;
- Highly flammable liquids and flammable liquids being entirely retained within a porous material in capillary channels of writing instruments;
- Flammable liquids with a viscosity greater than 260 x 10-6m<sup>2</sup>/s corresponding to a flow time of more than 38 s when determined in accordance with EN ISO 2431 using cup No. 6;

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- Highly flammable liquids contained in toys covered in EN 71-5.

NOTE: Different legal requirements may exist in non-EU countries.

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### ♦ Migration of certain elements

As specified in European standard on safety of toys EN 71-3:2019 - Migration of certain elements, acid extraction method was used and toxic elements content were determined by ICP-OES, ICP-MS, BCTC IC-ICP-MS and GC-MS.

For Category III materials: Scraped off materials RCTL

**Test Results:** 

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			BCTC	Limit (mg/kg)	BCT
Code	Soluble	LOD	Category I	Category II	Category III
Jouc	Element	(mg/kg)	dry, brittle, powder-like	liquid or sticky	scraped-off toy
	BCTC		or pliable toy material	toy material	material
1	Al	0.073	5625	1406	70000 CTC
2	Sb	0.014	45	11.3	560
3	As	0.027	3.8	0.9	47
BC4C	Ва	0.027	1500	375	18750
5	В	0.039	1200	300	15000
6	Cd BC	0.059	1.3	0.3	17
7	Cr <sup>3+</sup>	0.064	37.5	9.4	460
8	Cr <sup>6+</sup>	0.026	0.02	0.005	0.053
9	Со	0.019	10.5	2.6	130
10	Cu	0.010	622.5	156	7700
112	Pb	0.061	2.0	0.5	23
12	Mn	0.050	1200	300 B	15000
13	Hg	0.010	7.5	1.9	94
14	Ni	0.042	75 CTC	18.8	930 BC1
15	Se	0.147	37.5	9.4	460
16	Sr	0.067	4500	1125	56000
17	Sn	0.110	15000	3750	180000
18	Organic tin	0.120	0.9	0.2	12,CTC
19	Zn	0.097	3750	938	46000

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Soluble Element Al Sb As Ba B Cd Cr <sup>3+</sup> Cr <sup>6+</sup>	1 235 N.D. N.D. N.D. N.D. N.D. N.D.	Results (mg/kg)  2  N.D.  N.D.	3 N.D. N.D. N.D. N.D. N.D. N.D. N.D.
Al Sb As Ba Ba Cd Cr <sup>3+</sup>	235 N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D. N.D.
Sb As Ba Ba Cd Cr <sup>3+</sup>	N.D. N.D. N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D. N.D. N.D.
As 3a 3 Cd Cr <sup>3+</sup>	N.D. N.D. N.D. N.D. N.D.	N.D. N.D. N.D. N.D.	N.D. N.D. N.D.
3a 3 Cd Cr <sup>3+</sup>	N.D. N.D. N.D. N.D.	N.D. N.D. N.D.	N.D. N.D. N.D.
3 Cd Cr <sup>3+</sup>	N.D. N.D. N.D.	N.D.	N.D. BCTC N.D.
Cd Cr <sup>3+</sup>	N.D. N.D.	N.D.	N.D.
Cr <sup>3+</sup>	N.D.		
		N.D. TC	N.D.
Cr <sup>6+</sup>	ND		N.D.
	N.D.	N.D.	N.D.
Со	N.D.	N.D.	N.D.
Cu	BCN.D.	311	N.D.
Pb	N.D.	SCTC N.D.	N.D.
Лn	N.D.	N.D.	N.D.
Нg	N.D.	N.D.	N.D.
Ni BC	N.D.	705	337
Se	N.D.	N.D.	N.D. CTC
Sr	N.D.CTC	N.D.	N.D.
Sn	N.D.	24	24
Organic tin	N.D.	N.D.	N.D.
<u>Z</u> n	N.D.	1305	N.D.
il 36 37 37 37 37 37 37 37 37 37 37 37 37 37	e - n rganic tin	N.D.  N.D.  N.D.  N.D.  N.D.  N.D.  rganic tin  N.D.	N.D.         705           N.D.         N.D.           N.D.         N.D.           N.D.         24           rganic tin         N.D.

### Note:

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- -MDL = Method Detection Limit
  - -N.D. = Not Detected (<MDL)
  - -mg/kg = ppm = parts per million
  - -Results shown are of the adjusted analytical results
  - -The migration of organic tin is expressed as tributyltin (TBT). where the tin content exceeded the limit of organic tin, eleven organic tins listed in table were determined by GC-MS and the client should be noted there are other organic tins may be present in toy materials.

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Organic tins tested under EN 71-3:2019:

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Methyl tin (MeT), Butyl tin (BuT), Dibutyl tin (DBT), Tributyl tin (TBT),Tetrabutyl tin (TeBT), n-Octyl tin (MOT), Di-n-octyl tin (DOT), Di-n-propyl tin (DProT), Diphenyl tin (DPhT), Triphenyl tin (TPhT), Dimethyltin Dimethyl tin (DMT)

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### **Photograph of Sample**

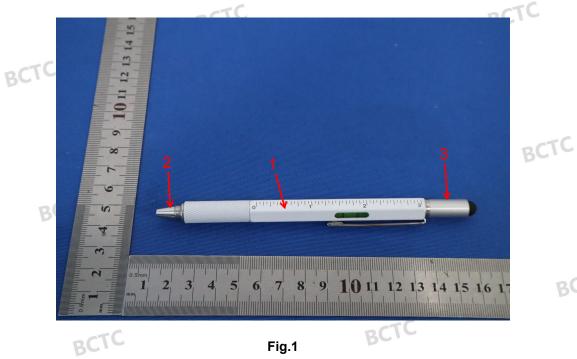


Fig.1

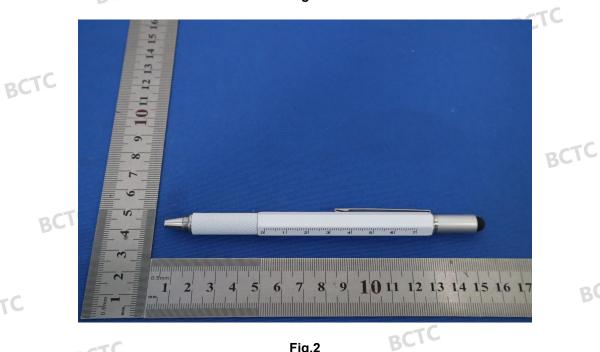


Fig.2

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## **Test Report**

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### **STATEMENT**

Date: Mar. 17, 2020

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- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without stamp of laboratory.

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- 4. The test report is invalid without signature of person(s) testing and authorizing.
- 5. The test process and test result is only related to the Unit Under Test.
- 6. The quality system of our laboratory is in accordance with ISO/IEC17025.
- 7. If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address: BCTC Building & 1-2F, East of B Building, Pengzhou Industrial, Fuyuan 1st Road,

Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen, China

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P.C.: 518103

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TEL: 400-788-9558 FAX: 0755-3322935

Internet: http://www.bctc-lab.com E-Mail: bctc@bctc-lab.com.cn

\*\*\* END OF REPORT \*\*\*\*



Report No. BCTCY2003000212R Date: Mar. 16, 2020

**Applicant**: Shenzhen Jubaopen Stationery & Gift Co., Ltd

Address : No.89, 27th Building, The Second industrial Village of Songgang

Town, Bao'an District, Shenzhen, Guangdong

The submitted sample and sample information was/were submitted and identified by/on the behalf

of the client

Sample name : Stylus Pen

Testing type / model : P136

Additional type / model : P136A, P248, P248A, P196, P249, P189, P195, P200, P198, P207,

P191, P104, P098, P160, P202, P110, P201, P122, P208, M305A

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Manufacturer : Shenzhen Jubaopen Stationery & Gift Co., Ltd

Address : No.89, 27th Building, The Second industrial Village of Songgang

Town, Bao'an District, Shenzhen, Guangdong

Sample received date : Mar. 10, 2020

Testing period : Mar. 10, 2020 - Mar. 16, 2020

Test requested : 1. As specified by client, to screen Lead(Pb), Cadmium(Cd),

Mercury(Hg), Chromium(Cr) and Bromine(Br) in the submitted

sample(s) by XRF.

2. As specified by client, when screening results exceed the XRF screening limit in IEC 62321-3-1:2013, further use of chemical methods are required to test the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated

Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs) in the

submitted samples.

3. As specified by client, to test the Di-isobutyl phthalate(DIBP),

Dibutyl phthalate(DBP), Benzyl butyl phthalate(BBP),

Bis(2-ethyl(hexyl) phthalate)(DEHP) in the submitted sample(s).

According to the RoHS Directive 2011/65/EU and amendment Commission Delegated Directive (EU) 2015/863

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\*\*\*\*For more detailed information, please refer to the next page\*\*\*\*\*

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Weicheng Zhang

Hanyao Chen



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### **Test Method:**

### A. Screening test by XRF spectroscopy

XRF screening limits in mg/kg for regulated elements according to IEC 62321-3-1:2013.

- BCT	Screening limits of IEC 62	MDL		
Element	Polymers and metals Composite material		Is Composite material Polymers	
Pb	BL≤(700-3σ) <x <(1300+3σ)<br="">≤OL</x>	BL≤(500-3σ) <x <(1500+3σ)<br="">≤OL</x>	10 mg/kg	50 mg/kg
Cd	BL≤(70-3σ) <x <(130+3σ)<br="">≤OL</x>	LOD≤(50-3σ) <x <(150+3σ)<br="">≤OL</x>	10 mg/kg	50 mg/kg
Hg	BL≤(700-3σ) <x <(1300+3σ)<br="">≤OL</x>	BL≤(500-3σ) <x <(1500+3σ)<br="">≤OL</x>	10 mg/kg	50 mg/kg
Cr	BL≤(700-3σ)< X	BL≤(500-3σ)< X	10 mg/kg	50 mg/kg
Br	BL≤(300-3σ)< X	BL≤(250-3σ)< X	10 mg/kg	50 mg/kg
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#### Note:

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- -BL = Under the XRF screening limit
- -OL = Further chemical test will be conducted while result is above the screening limit
- -X= The symbol "X" marks the region where further investigation is necessary
- $-3\sigma$ = The reproducibility of analytical instruments

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- -LOD= Detection limit
- -"--" = Not regulated.

#### **B. Chemical Test**

TC	Test Item(s)	BCTest Method	Measured Equipment(s)	MDL	Limit
	Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	1000 mg/kg
	Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	100 mg/kg
	Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000 mg/kg
	Hovevalent Chromium Cr(\/I)	IEC 62321-7-1:2015 Ed.1.0	11// ///6		1000 mg/kg
BC	Hexavalent Chromium Cr(VI)	IEC 62321-7-2:2017 Ed.1.0	UV-VIS	8 mg/kg	1000 mg/kg
	Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015 Ed.1.0	HPLC-UV	5 mg/kg	1000 mg/kg
	Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015 Ed.1.0	HPLC-UV	5 mg/kg	1000 mg/kg
	Phthalates	IEC 62321-8:2017 Ed.1.0	GC-MS	50 mg/kg	1000 mg/kg

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### Test Result(s):

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	Sample	Sample	Tested Items	XRF Screening Test	Chemical Test	0	
	No.	Description	rested items	Unit (mg/kg)	Unit (mg/kg)	Conclusion	
		CTC	Pb	BCTBL	/	В	CI
	B		Cd	BL			
	1	White plastic	Hg	BL	BCTG	PASS	
		BC	Cr(Cr(VI))	BL	1		
			Br(PBBs&PBDEs)	BL	/	BCTC	
7			Pb	BL	1		
		-=-	Cd	BLTC	1		F
	2	Black rubber	Hg	BL	1	PASS	
			Cr(Cr(VI))	BL	BCTC		
			Br(PBBs&PBDEs)	BL	1		
			Pb	CTC BL	1	BCTC	
R	3	Black rubber	Cd	BL	1	00	
			Hg	BL SCTC	1	PASS	
		ring	Cr(Cr(VI))	BL	1		
			Br(PBBs&PBDEs)	BL	/ pcT	C	
			Pb	BL	1		
		Transparent	Cd	BL	1	201	C
	4cT	Transparent plastic	Hg	BL	1	PASS	
	Do.		Cr(Cr(VI))	BL	-TC /		
		RC	Br(PBBs&PBDEs)	BL B	/		
			Pb	BL	1	CTC	
T		Light green	Cd	BL	1	30.	
	5	liquid	Hg	BL	1	PASS	
		acTC	Cr(Cr(VI))	BL	1		BC
		BC	Br(PBBs&PBDEs)	BL	1		
			BCTC Pb	BL	BCT		
		White metal	Cd	BL	1		
	6	shell	Hg	C BL	1	PASS	
	3010	311611	Cr(Cr(VI))	BL	1		
			Br(PBBs&PBDEs)	/ BCTC	1		
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		80.	Pb	BL	1	
TC			Cd	BL	/ BCI	
, 10	7	Silver metal	Hg	BL	1	PASS
	-	CTC	Cr(Cr(VI))	BCTBL	1	B
	В		Br(PBBs&PBDEs)	1		
		-0	rC Pb	BL	BCIC	
		BC	Cd	BL	1	
	8	Silver metal	Hg BCT	BL	1	PASS
BCI			Cr(Cr(VI))	BL	1	
		CTC	Br(PBBs&PBDEs)	BCTC	1	
		BCIO	Pb	BL	1	
			Cd	BL	BCTC	
	9	Gold metal	BC1 Hg	BL	1	PASS
			Cr(Cr(VI))	CTC BL	1	BCTC
	BCTC		Br(PBBs&PBDEs)	1	1	
			Pb	6682	N.D.	
		BCIC	Cd	BL	1	
	10	White metal	Hg	BL	/ BCT	PASS
TC			Cr(Cr(VI))	BL	1	
			Br(PBBs&PBDEs)	PCTC	1	RCT
	BCT	C	Pb	BL	1	0
			Cd	BL	TC 1	
	11	Silver metal	Hg Hg	BL B	1	PASS
			Cr(Cr(VI))	BL	1	RCTC
BCT	C		Br(PBBs&PBDEs)	1	1	
			Pb	BL	1	
	1	RCTC	Cd	BL	1	
	12	Silver metal	Hg	BL		PASS
			Cr(Cr(VI))	BL	BCIP	
			Br(PBBs&PBDEs)	1	1	DOTE
	BCTC		Pb RC1	C BL	1	BC
			Cd	BL	1	
	13	Silver metal	Hg	BL BCIC	1	PASS
		BCIC	Cr(Cr(VI))	BL	1	
к			Br(PBBs&PBDEs)	1	BCTC	
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		BCI	Pb	BL	1		
			Cd	BL	, BCI		
	14	Silver metal	Hg	BL	1	PASS	
	17	CTC	Cr(Cr(VI))	BCTBL	1	В	
	B		Br(PBBs&PBDEs)	1			
			TC Pb	BL	BCIG		
		BC	Cd	BL	1	-6	
-	15	Silver metal	Hg BCT	BL	/	PASS	
			Cr(Cr(VI))	BL	1		
			Br(PBBs&PBDEs)	RCTC	1		
		BCIC	Pb	BL	1		
		Silver metal	Cd	BL	BCTC		
	16	Silver metal (screwdriver)	BC1C Hg	BL	1	PASS	
		(Sciewariver)	Cr(Cr(VI))	CTC 7611	Negative	BCTC	

	BCIC			Results			
	Tested Item(s)			Unit (mg/kg)	BCT		
TC	· ·	3CT9	2	3	4	5	
	Diisobutyl phthalate (DIBP) CAS #:84-69-5	N.D.	N.D.TC	N.D.	N.D.	N.D.BCT	C
	Dibutyl phthalate (DBP) CAS #:84-74-2	N.D.	N.D.	N.D.CT	N.D.	N.D.	
BCT	Butyl benzyl phthalate (BBP) CAS #:85-68-7	N.D.	N.D.	N.D.	N.D.	CTC <sub>N.D.</sub>	
	Bis(2-ethylhexyl) phthalate (DEHP) CAS #:117-81-7	N.D.	N.D. BC	TC N.D.	N.D.	N.D.	BCTC

Br(PBBs&PBDEs)

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#### Note:

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-MDL = Method Detection Limit

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- -N.D. = Not Detected (<MDL)
- -mg/kg = ppm = parts per million
- -" / "= Not conducted.
- -Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.1µg/cm<sup>2</sup> with 50cm<sup>2</sup> sample surface area used.

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-Positive = Presence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is equal to or greater than 0.13μg/cm² with 50cm² sample surface area used.

### Remark: pcTC

- The screening results are only used for reference.
- When conducting the test for PBBs&PBDEs, XRF was introduced to screen Br Exclusively; When conducting the test for Hexavalent Chromium, XRF was introduced to screen Chromium exclusively.

### **Test Process:**

TC

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

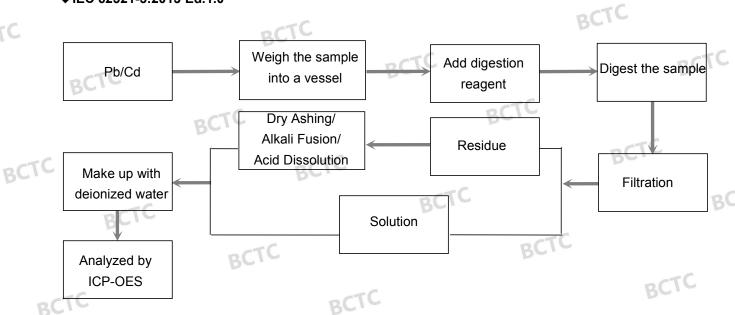
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♦IEC 62321-5:2013 Ed.1.0

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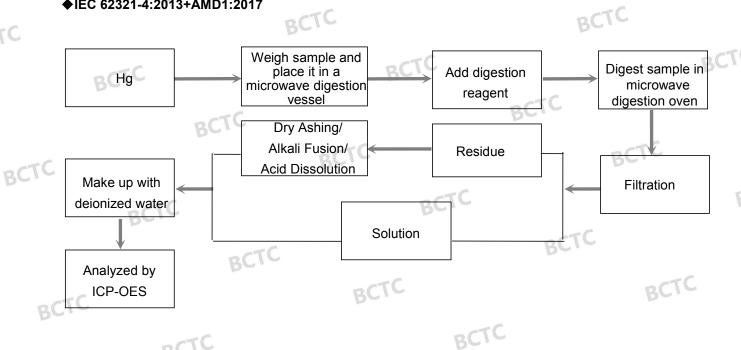
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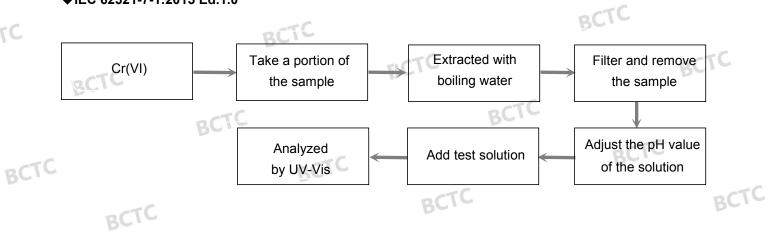
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### ♦IEC 62321-4:2013+AMD1:2017



### ♦IEC 62321-7-1:2015 Ed.1.0

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## **Test Report**

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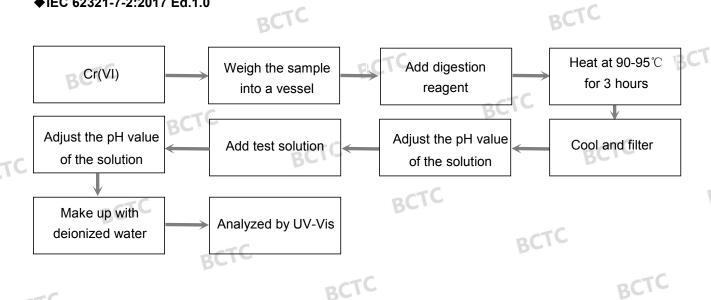
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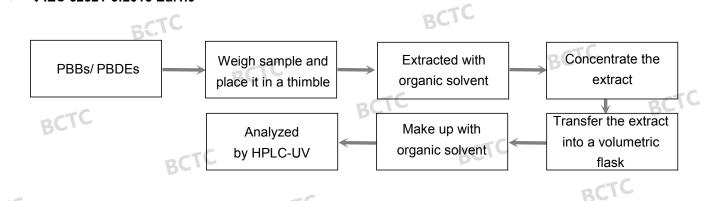
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### ♦IEC 62321-7-2:2017 Ed.1.0



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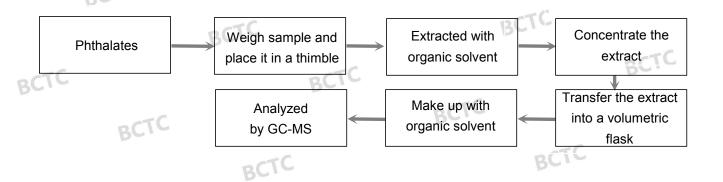
### ♦IEC 62321-6:2015 Ed.1.0



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### ♦IEC 62321-8:2017 Ed.1.0

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## BCTC **Test Report**

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Report No. BCTCY2003000212R

BCTC

Date: Mar. 16, 2020

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### Photograph of Sample



Fig.1



Fig.2

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Report No. BCTCY2003000212R

BCTC

Date: Mar. 16, 2020

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### Photo(s) of the tested component(s)

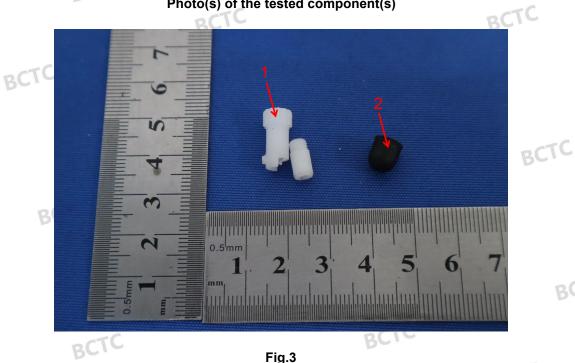


Fig.3

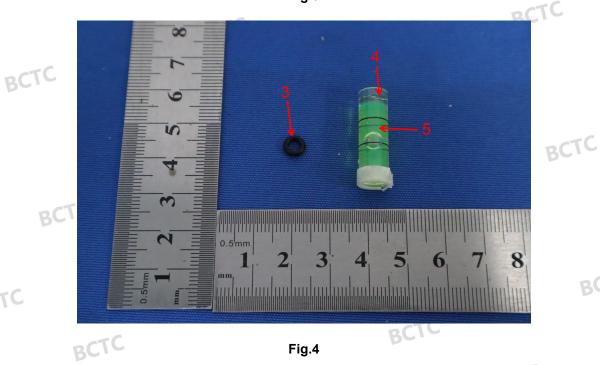


Fig.4

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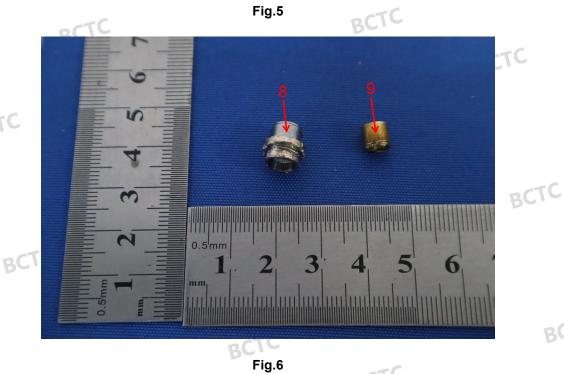
## BCTC **Test Report**

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Report No. BCTCY2003000212R



Fig.5



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# **Test Report**

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Report No. BCTCY2003000212R



Fig.7

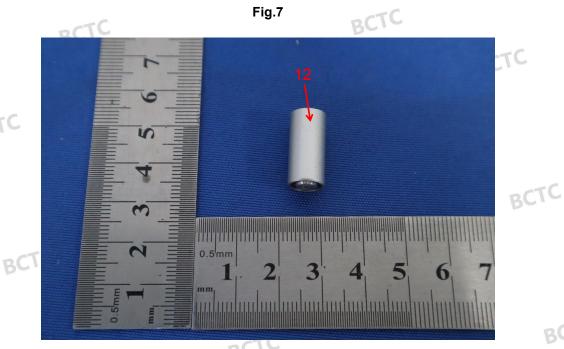


Fig.8

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# **Test Report**

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Report No. BCTCY2003000212R

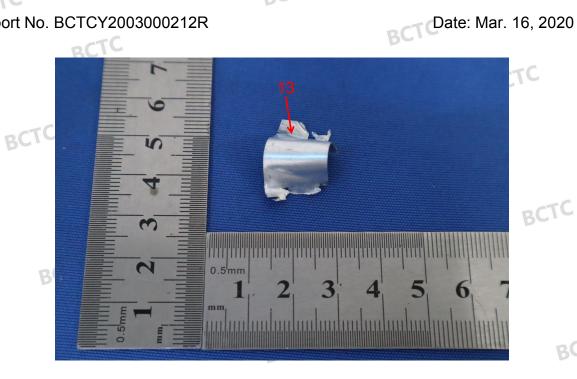


Fig.9

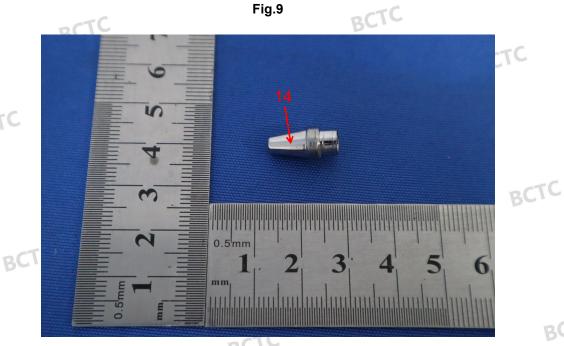


Fig.10

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## BCTC **Test Report**

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Fig.11

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## **Test Report**

Report No. BCTCY2003000212R

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### **STATEMENT**

Date: Mar. 16, 2020

- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without stamp of laboratory.
- 4. The test report is invalid without signature of person(s) testing and authorizing.
- 5. The test process and test result is only related to the Unit Under Test.
- 6. The quality system of our laboratory is in accordance with ISO/IEC17025.
- 7. If there is any objection to report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address: BCTC Building & 1-2F, East of B Building, Pengzhou Industrial, Fuyuan 1st Road,

Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen, China

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P.C.: 518103

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Internet: http://www.bctc-lab.com

FAX: 0755-33229357

E-Mail: <u>bctc@bctc-lab.com.cn</u>

\*\*\*\* END OF REPORT \*\*\*\*