# 昆璞電線組(深圳)有限公司

# ROHS零件原料展開管理表

適用機型: (	QP026(13A)+QP007				RoHS	六大	類有害	子物質							
客戶料號	零件名稱	材質、型號	廠商	Pb (鉛)	Cd (鎘)	Hg	Cr6+ (六價	PBBs	PBDEs (溴聯 苯醚)	(全氟	PFOS (全氟 辛磺 酸)	檢驗報告	編號	報告日期	備注
	銅線	8.0mm Copper rod銅線	DONG GUAN	ND	ND	ND	Negative	1	/	ND	ND	CANML1100187	7101	2011/1/20	
		BLUE-藍色芯線	I-SHENG	ND	ND	ND	ND	ND	ND	ND	ND	GZ0912115689_(	CHEM	2010/11/29	
		BROWN-棕色芯線	I-SHENG	ND	ND	ND	ND	ND	ND	ND	ND	GZ1011134551_0	CHEM	2010/11/29	
	電線	YELLOW-黃色芯線	I-SHENG	ND	ND	ND	ND	ND	ND	ND	ND	GZ1011134565_0	CHEM	2010/11/29	
		GREEN-綠色芯線	I-SHENG	4	ND	ND	ND	ND	ND	ND	ND	GZ1011134561_0	CHEM	2010/11/29	
		black plastic黑色外被	I-SHENG	5	ND	ND	ND	ND	ND	ND	ND	GZ1011134569_0	CHEM	2010/11/29	
	45P-BK低鉛低鎘PVC料	PVC 膠粒 (PVC COMPUND)	PURE FRIEND	ND	ND	ND	ND	ND	ND	/	/	RLSZD00096941	10001	2011/7/15	
	支架/上蓋	PBT 4830 BK	Gem Terminal	8	ND	ND	ND	ND	ND	ND	ND	CE_2010_C2869		2010/12/21	
	端子	Plug Fitting C2680 Brass	Gem Terminal	10	ND	ND	negative	/	/	ND	ND	CE_2010_C2885		2010/12/21	
	端子	Plug Fitting Nickel-plated(鍍鎳)	Gem Terminal	ND	ND	ND	negative	/	/	ND	ND	CE_2010_C2889	ı	2010/12/21	
	保險絲蓋	NL66 V0	Gem Terminal	ND	ND	ND	ND	ND	ND	ND	ND	CE_2010_C2879	ı	2010/12/21	
		雞眼GOLDEN METAL	晟興	ND	ND	ND	ND	ND	ND	/	/	SHAH00228906		2010/11/22	
		銅帽SILVERY METAL	晟興	ND	ND	ND	ND	ND	ND	/	/	SHAH00228904		2010/11/22	
	保險絲	鎔斷絲SILVER GREY WIRE	晟興	ND	ND	ND	ND	ND	ND	/	/	SHAH00222949		2010/11/22	
		陶瓷管WHITE TUBE	晟興	ND	ND	ND	ND	ND	ND	/	/	SHAH00228907		2010/11/22	
		防爆砂BROWN GRANULE	晟興	ND	ND	ND	ND	ND	ND	/	/	SHAH00248585		2011/4/1	
	內膜WH	PA66	HWA SHYANG	6	ND	ND	ND	ND	ND	/	/	CE_2010_B2380		2010/11/18	
	BK一般有鐵芯PVC扎帶	BLACK PLASTIC(黑色扎帶)	MINGDA	ND	ND	ND	ND	ND	ND	/	/	RSZ1106813768		2011/7/1	
		鐵絲	MINGDA	ND	ND	ND	negative	/	/	/	/	CANEC1004691	002	2010/11/15	



No. CANML1100187101

Date: 20 Jan 2011

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DONG GUAN WALSIN WIRE AND CABLE CO.,LTD XINIU PO DISTRICT,DALANG TOWN DONG GUAN CITY CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: 8.0mm COPPER ROD

SGS Job No.

12944451 - GZ

SGS Internal Reference No. :

GC110100316-4.1

Date of Sample Received

17 Jan 2011

**Testing Period** 

17 Jan 2011 - 20 Jan 2011

Test Requested

Selected test(s) as requested by client.

Test Method

Please refer to next page(s).

**Test Results** 

Please refer to next page(s).

Conclusion

A: Based on the performed tests on submitted sample(s), the results comply

with the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of SGS-CSTC Ltd.

Almay Gao

Approved Signatory

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Test Results:

ID for specimen 1
Description for specimen 1

: CAN11-001871.001

: Copper-colored metal

#### A: RoHS Directive 2002/95/EC

Test Item(s)	Unit	Test Method (Reference)	Result	MDL	Limit
Cadmium (Cd)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2	100
Lead (Pb)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2	1000
Mercury (Hg)	mg/kg	IEC 62321:2008, ICP-OES	N.D.	2	1000
Hexavalent Chromium (CrVI) by		IEC 62321:2008, UV-Vis	Negative	$\Diamond$	#
boiling water extraction					

#### Note:

- 1. mg/kg = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit
- 4. ♦ = Spot-Test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result is negative or cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

Storage conditions and production date of the tested sample are unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

5. # = Positive indicates the presence of CrVI on the tested areas.

Negative indicates the absence of CrVI on the tested areas.

6. "-" = Not regulated

## B: Halogen

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Fluorine (F)	mg/kg	BS EN 14582:2007, IC	N.D.	50
Chlorine (CI)	mg/kg	BS EN 14582:2007, IC	N.D.	50
Bromine (Br)	mg/kg	BS EN 14582:2007, IC	N.D.	50
Iodine (i)	mg/kg	BS EN 14582:2007, IC	N.D.	50

## Note:

- 1. mg/kg = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit

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Unless or presented the results shown in this test report refer only to the sample(s) tested



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## C: PFOS ( Perfluorooctanoic acid & Perfluorooctane sulfonates )

Test Item(s)

Unit

Test Method (Reference)

Result

MDL

Perfluorooctane sulfonates

mg/kg

EPA 3550C: 2007, LC-MS

N.D.

10

(PFOS)

PFOS Acid PFOS Metal Salt

PFOS Amide

#### Note:

- 1. mg/kg = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit

For reference: Entry 53 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2006/122/EC):

- (1) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0,005 % by mass.
- (2) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1µg/m² of the coated material.

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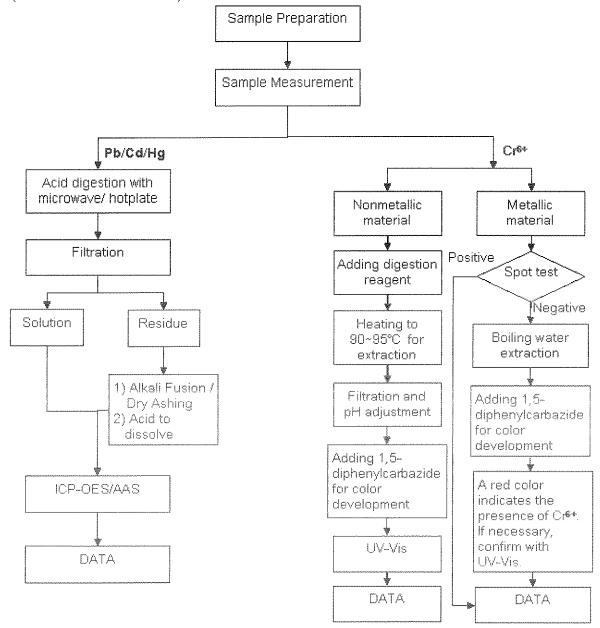
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#### **ATTACHMENTS**

## RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bella Wang / Ross Zhan
- 2) Name of the person in charge of testing: Adams Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr6+ test method excluded).



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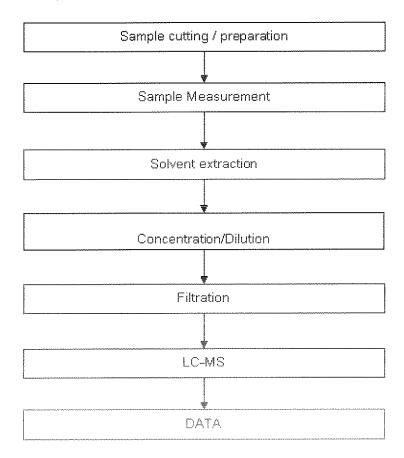
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## **ATTACHMENTS**

## PFOA / PFOS Testing Flow Chart

- 1) Name of the person who made testing: Cindy Huang
- 2) Name of the person in charge of testing: Ryan Yang



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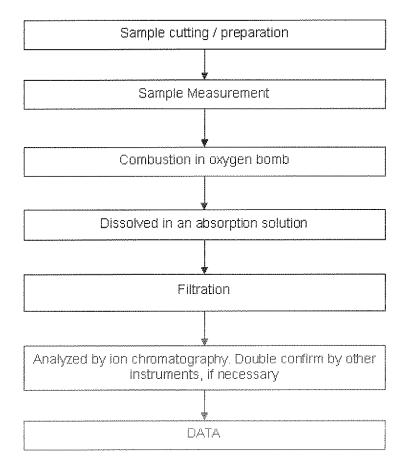
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## **ATTACHMENTS**

## Halogen Testing Flow Chart

- 1) Name of the person who made testing: Liang Wang
- 2) Name of the person in charge of testing: Michelle Song



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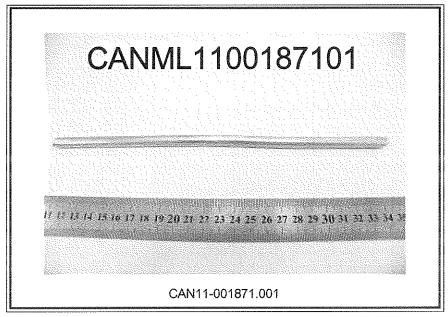


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Sample photo:



SGS authenticate the photo on original report only

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# I-SHENG MFG (SONGGANG) FACTORY TANGXIAYONG ROAD SONGGANG TOWN BAOAN AREA SHENZHEN CITY CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as PVC WIRE (INSULATION) BLUE

SGS Job No.

: SZ12843210

SGS Internal Reference No.

: 22.14

Tested sample information

: PVC WIRE (INSULATION) BLUE

Client Reference Information

: SEE ATTACHMENT

Date of Sample Received

: NOV 24, 2010

**Testing Period** 

: NOV 24, 2010 TO NOV 29, 2010

Test Requested

: Selected test (s) as requested by client.

Test Method

: Please refer to next page(s).

Test Result(s)

: Please refer to next page(s).

Signed for and on behalf of SGS-CSTC Ltd.

Manson Yang

Approved Signatory

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Test Results:

Description for specimen 1 : Blue plastic (jacket)

## **Elementary Analysis**

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Cadmium (Cd) Lead (Pb) Mercury (Hg) Hexavalent Chromium (CrVI) by alkaline extraction	mg/kg	IEC 62321: 2008, ICP-OES	N.D.	2
	mg/kg	IEC 62321: 2008, ICP-OES	N.D.	2
	mg/kg	IEC 62321: 2008, ICP-OES	N.D.	2
	mg/kg	IEC 62321: 2008, UV-Vis	N.D.	2

#### Note:

- 1. mg/kg = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit

## Flame Retardants

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Sum of PBBs	mg/kg	es	N.D.	-
Monobromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Dibromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Tribromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Tetrabromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Pentabromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5 5 5 5
Hexabromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Heptabromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Octabromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Nonabromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5 5
Decabromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Sum of PBDEs	mg/kg	-	N.D.	
Monobromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Dibromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Tribromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Tetrabromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Pentabromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5 5
Hexabromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Heptabromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5 5
Octabromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	
Nonabromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Decabromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5

#### Note:

- 1. mg/kg = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit
- 4. "-" = Not regulated

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#### PAHs (Polynuclear Aromatic Hydrocarbons)

Test Item(s)	Unit	Test Method	Results	MDL
Naphthalene (NAP)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Acenaphthylene (ANY)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Acenaphthene (ANA)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Fluorene (FLU)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Phenanthrene (PHE)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Anthracene (ANT)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Fluoranthene (FLT)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Pyrene (PYR)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Benzo(a)anthracene (BaA)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Chrysene (CHR)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Benzo(b)fluoranthene (BbF)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Benzo(k)fluoranthene (BkF)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Benzo(a)pyrene (BaP)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Indeno(1-,2,3-c,d)pyrene (IPY)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Dibenzo(a,h)anthracene (DBA)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Benzo(g,h,i)perylene (BPE)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Sum of 16 PAHs acc. US EPA	mg/kg	-ce	N.D.	

#### Note:

- 1. mg/kg = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit

## ZEK 01.2-08: Restraining maximum values for products

Parameter Category 1		Category 2	Category 3
	toys with normal skin contact for children aged < 36	included in Category 1, with predictable contact with the skin longer than 30 s. (long-	with predictable skin contact
Benzo[a]pyrene (mg/kg)	<mdl (<0.2)***<="" td=""><td>4</td><td>20</td></mdl>	4	20
Sum of 16 PAH (US EPA) (mg/kg)**	<mdl (<0.2)***<="" td=""><td>10</td><td>200</td></mdl>	10	200

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<sup>\*\*=</sup> Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs

<sup>\*\*\* =</sup> In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material which indented to be put in the mouth by additional specific migration tests of PAH components based on DIN EN 1186ff and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.



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## PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Perfluorooctanoic acid (PFOA) Perfluorooctane sulfonates (PFOS)	mg/kg	EPA 3550C: 2007, LC-MS	N.D.	10
PFOS – Acid PFOS – Metal Salt PFOS – Amide	mg/kg	EPA 3550C: 2007, LC-MS	N.D.	10

#### Note:

- 1. mg/kg = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit

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- (1) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0,005 % by mass.
- (2) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0,1% by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1µg /m² of the coated material.

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## **ATTACHMENT**

Used For:

H05	H03	SJT	SJTW	SVT	NISPT-2	NISPT-1	STW	VCTF
VCTFK	SJTO	SUTO	SJTOOW	ST	VCT	HVFF	HHVCTF	HVCTF
HVCTFK	STP-2	SPT-1	SPT-3	SVTW	RVV	VSF	VFF	HVSF
SJTOW	NISPT-W	NISPT-2W	SPT-3W	J03	SPT-1W	SPT-2W		

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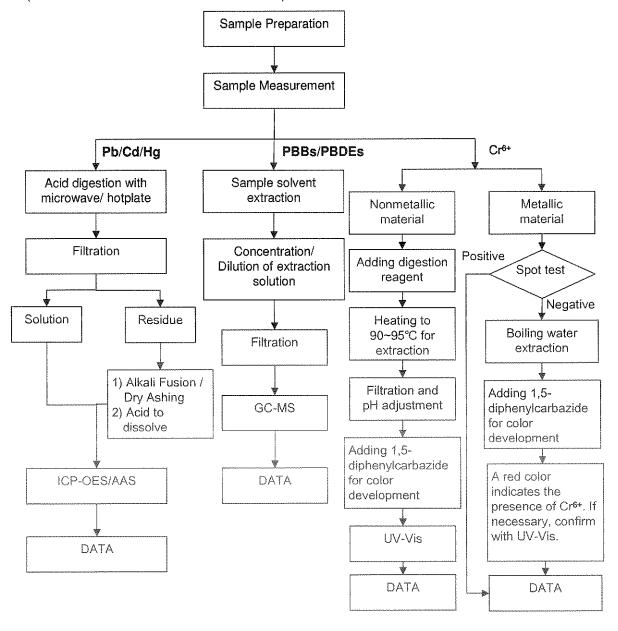
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## **ATTACHMENTS**

## **RoHS Testing Flow Chart**

- 1) Name of the person who made testing: Bella Wang / Cutey Yu / Ross Zhan
- 2) Name of the person in charge of testing: Adams Yu / Ryan Yang
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr6+ and PBBs/PBDEs test method excluded).



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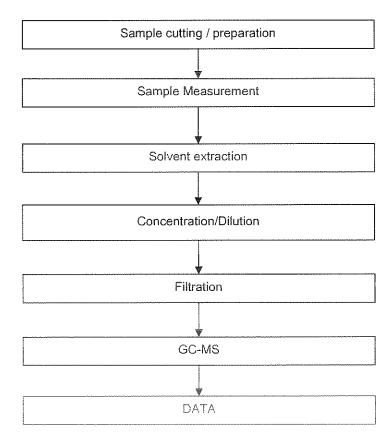
Date: NOV 29, 2010

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## **ATTACHMENTS**

## **PAHs Testing Flow Chart**

- 1) Name of the person who made testing: Cutey Yu
- 2) Name of the person in charge of testing: Ryan Yang



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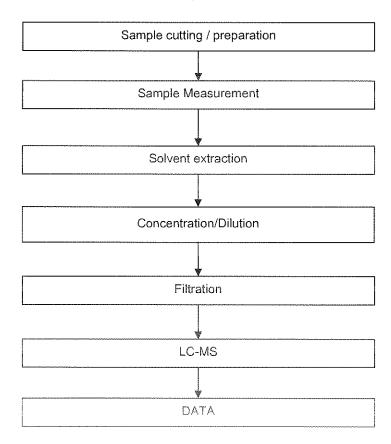
Date: NOV 29, 2010

Page 8 of 9

## **ATTACHMENTS**

## PFOA / PFOS Testing Flow Chart

- 1) Name of the person who made testing: Cindy Huang
- 2) Name of the person in charge of testing: Ryan Yang



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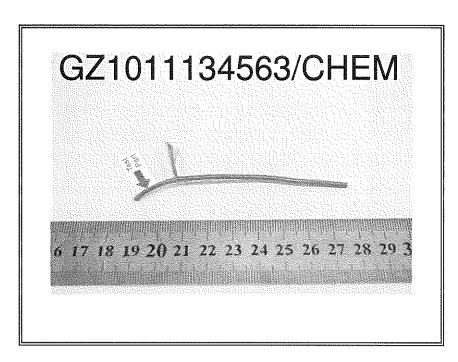


No.: GZ1011134563/CHEM

Date: NOV 29, 2010

Page 9 of 9

## Sample photo:



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No.: GZ1011134551/CHEM

Date: NOV 29, 2010

Page 1 of 9

# I-SHENG MFG (SONGGANG) FACTORY TANGXIAYONG ROAD SONGGANG TOWN BAOAN AREA SHENZHEN CITY CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as PVC WIRE (INSULATION) BROWN

SGS Job No.

: SZ12843210

SGS Internal Reference No.

: 22.2

Tested sample information

: PVC WIRE (INSULATION) BROWN

Client Reference Information

: SEE ATTACHMENT

Date of Sample Received

: NOV 24, 2010

**Testing Period** 

: NOV 24, 2010 TO NOV 29, 2010

Test Requested

: Selected test (s) as requested by client.

Test Method

: Please refer to next page(s).

Test Result(s)

: Please refer to next page(s).

Signed for and on behalf of SGS-CSTC Ltd.

Manson Yang

Approved Signatory



No.: GZ1011134551/CHEM

Date: NOV 29, 2010

Page 2 of 9

Test Results:

Description for specimen 1 : Brown plastic (jacket)

## **Elementary Analysis**

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Cadmium (Cd)	mg/kg	IEC 62321: 2008, ICP-OES	N.D.	2
Lead (Pb)	mg/kg	IEC 62321: 2008, ICP-OES	N.D.	
Mercury (Hg) Hexavalent Chromium (CrVI) by alkaline extraction	mg/kg	IEC 62321: 2008, ICP-OES	N.D.	2
	mg/kg	IEC 62321: 2008, UV-Vis	N.D.	2

#### Note:

- 1. mg/kg = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit

## Flame Retardants

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Sum of PBBs	mg/kg	w.	N.D.	-
Monobromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Dibromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Tribromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Tetrabromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Pentabromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Hexabromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Heptabromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Octabromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Nonabromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Decabromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Sum of PBDEs	mg/kg	-	N.D.	
Monobromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Dibromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Tribromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Tetrabromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Pentabromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Hexabromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Heptabromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Octabromodiphenyl ether	mg/kg	IEC 62321; 2008, GC-MS	N.D.	5
Nonabromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Decabromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5

#### Note:

- 1. mg/kg = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit
- 4. "-" = Not regulated

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Date: NOV 29, 2010

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## PAHs (Polynuclear Aromatic Hydrocarbons)

Test Item(s)	Unit	Test Method	Results	MDL
Naphthalene (NAP)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Acenaphthylene (ANY)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Acenaphthene (ANA)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Fluorene (FLU)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Phenanthrene (PHE)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Anthracene (ANT)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Fluoranthene (FLT)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Pyrene (PYR)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Benzo(a)anthracene (BaA)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Chrysene (CHR)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Benzo(b)fluoranthene (BbF)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Benzo(k)fluoranthene (BkF)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Benzo(a)pyrene (BaP)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Indeno(1-,2,3-c,d)pyrene (IPY)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Dibenzo(a,h)anthracene (DBA)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Benzo(g,h,i)perylene (BPE)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Sum of 16 PAHs acc. US EPA	mg/kg	-	N.D.	-

#### Note:

1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

## ZEK 01.2-08: Restraining maximum values for products

Parameter	, and an		Category 3
	toys with normal skin contact	included in Category 1, with predictable contact with the skin longer than 30 s. (long-	with predictable skin contact
Benzo[a]pyrene (mg/kg)	<mdl (<0.2)***<="" td=""><td>1</td><td>20</td></mdl>	1	20
Sum of 16 PAH (US EPA) (mg/kg)**	<mdl (<0.2)***<="" td=""><td>10</td><td>200</td></mdl>	10	200

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<sup>\*\*=</sup> Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs

<sup>\*\*\* =</sup> In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material which indented to be put in the mouth by additional specific migration tests of PAH components based on DIN EN 1186ff and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.



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Date: NOV 29, 2010

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## PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Perfluorooctanoic acid (PFOA) Perfluorooctane sulfonates (PFOS)	mg/kg	EPA 3550C: 2007, LC-MS	N.D.	10
PFOS – Acid PFOS – Metal Salt PFOS – Amide	mg/kg	EPA 3550C: 2007, LC-MS	N.D.	10

#### Note:

- 1. mg/kg = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit

For reference: Entry 53 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2006/122/EC):

- (1) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0,005 % by mass.
- (2) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0,1% by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1µg /m² of the coated material.

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## **ATTACHMENT**

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HVCTFK	STP-2	SPT-1	SPT-3	SVTW	RVV	VSF	VFF	HVSF
SJTOW	NISPT-W	NISPT-2W	SPT-3W	J03	SPT-1W	SPT-2W		

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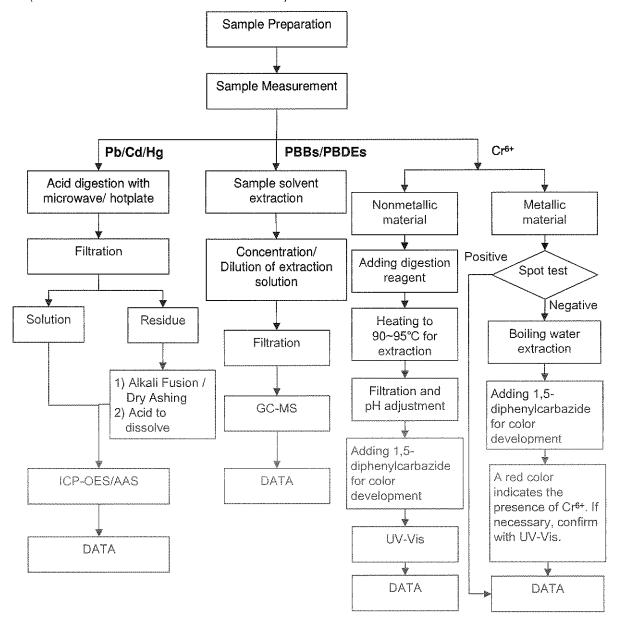
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## **ATTACHMENTS**

## **RoHS Testing Flow Chart**

- 1) Name of the person who made testing: Bella Wang / Cutey Yu / Ross Zhan
- 2) Name of the person in charge of testing: Adams Yu / Ryan Yang
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr6+ and PBBs/PBDEs test method excluded).



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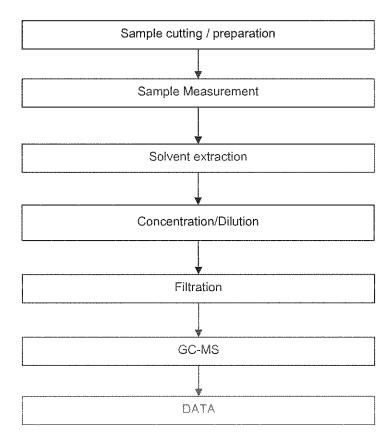
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## **ATTACHMENTS**

## **PAHs Testing Flow Chart**

- 1) Name of the person who made testing: Cutey Yu
- 2) Name of the person in charge of testing: Ryan Yang



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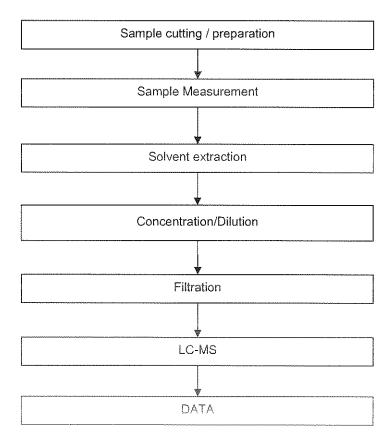
Date: NOV 29, 2010

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#### **ATTACHMENTS**

## PFOA / PFOS Testing Flow Chart

- 1) Name of the person who made testing: Cindy Huang
- 2) Name of the person in charge of testing: Ryan Yang



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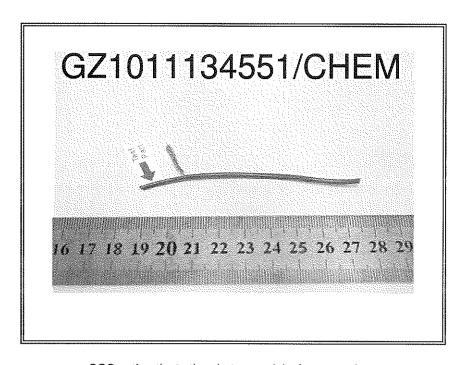


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Date: NOV 29, 2010

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Date: NOV 29, 2010

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# I-SHENG MFG (SONGGANG) FACTORY TANGXIAYONG ROAD SONGGANG TOWN BAOAN AREA SHENZHEN CITY CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as PVC WIRE (INSULATION) YELLOW

SGS Job No.

: SZ12843210

SGS Internal Reference No.

: 22.16

Tested sample information

: PVC WIRE (INSULATION) YELLOW

Client Reference Information

: SEE ATTACHMENT

Date of Sample Received

: NOV 24, 2010

Testing Period

: NOV 24, 2010 TO NOV 29, 2010

Test Requested

: Selected test (s) as requested by client.

Test Method

: Please refer to next page(s).

Test Result(s)

: Please refer to next page(s).

Signed for and on behalf of SGS-CSTC Ltd.

Manson Yang Approved Signator

Approved Signatory



No.: GZ1011134565/CHEM

Date: NOV 29, 2010

Page 2 of 9

Test Results:

Description for specimen 1 : Yellow w/ green plastic (jacket)

## **Elementary Analysis**

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Cadmium (Cd)	mg/kg	IEC 62321: 2008, ICP-OES	N.D.	2
Lead (Pb)	mg/kg	IEC 62321: 2008, ICP-OES	N.D.	
Mercury (Hg) Hexavalent Chromium (CrVI) by alkaline extraction	mg/kg	IEC 62321: 2008, ICP-OES	N.D.	2
	mg/kg	IEC 62321: 2008, UV-Vis	N.D.	2

#### Note:

- 1. mg/kg = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit

## Flame Retardants

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Sum of PBBs Monobromobiphenyl Dibromobiphenyl Tribromobiphenyl	mg/kg mg/kg mg/kg mg/kg	IEC 62321: 2008, GC-MS IEC 62321: 2008, GC-MS IEC 62321: 2008, GC-MS	N.D. N.D. N.D. N.D.	- 5 5 5
Tetrabromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Pentabromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Hexabromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Heptabromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Octabromobiphenyl	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Nonabromobiphenyl Decabromobiphenyl Sum of PBDEs	mg/kg mg/kg mg/kg	IEC 62321: 2008, GC-MS IEC 62321: 2008, GC-MS	N.D. N.D. N.D.	5 5
Monobromodiphenyl ether Dibromodiphenyl ether Tribromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Tetrabromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Pentabromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Hexabromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5
Heptabromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	5 5 5 5
Octabromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	
Nonabromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	
Decabromodiphenyl ether	mg/kg	IEC 62321: 2008, GC-MS	N.D.	

## Note:

- 1. mg/kg = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit
- 4. "-" = Not regulated

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## PAHs (Polynuclear Aromatic Hydrocarbons)

Test Item(s)	Unit	Test Method	Results	MDL
Naphthalene (NAP)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Acenaphthylene (ANY)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Acenaphthene (ANA)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Fluorene (FLU)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Phenanthrene (PHE)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Anthracene (ANT)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Fluoranthene (FLT)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Pyrene (PYR)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Benzo(a)anthracene (BaA)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Chrysene (CHR)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Benzo(b)fluoranthene (BbF)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Benzo(k)fluoranthene (BkF)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Benzo(a)pyrene (BaP)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Indeno(1-,2,3-c,d)pyrene (IPY)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Dibenzo(a,h)anthracene (DBA)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Benzo(g,h,i)perylene (BPE)	mg/kg	ZEK 01.2-08, GC-MS	N.D.	0.2
Sum of 16 PAHs acc. US EPA	mg/kg	sie	N.D.	-

#### Note:

- 1. mg/kg = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit

## ZEK 01.2-08: Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3
	toys with normal skin contact for children aged < 36	included in Category 1, with predictable contact with the skin longer than 30 s. (long-	with predictable skin contact
Benzo[a]pyrene (mg/kg)	<mdl (<0.2)***<="" td=""><td></td><td>20</td></mdl>		20
Sum of 16 PAH (US EPA) (mg/kg)**	<mdl (<0.2)***<="" td=""><td>10</td><td>200</td></mdl>	10	200

#### Remark:

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<sup>\*\*=</sup> Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs

<sup>\*\*\* =</sup> In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material which indented to be put in the mouth by additional specific migration tests of PAH components based on DIN EN 1186ff and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.



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## PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)

Test Item(s)	Unit	Test Method (Reference)	Result	MDL
Perfluorooctanoic acid (PFOA) Perfluorooctane sulfonates (PFOS)	mg/kg	EPA 3550C: 2007, LC-MS	N.D.	10
PFOS – Acid PFOS – Metal Salt PFOS – Amide	mg/kg	EPA 3550C: 2007, LC-MS	N.D.	10

#### Note:

- 1. mg/kg = ppm
- 2. N.D. = Not Detected (< MDL)
- 3. MDL = Method Detection Limit

For reference: Entry 53 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2006/122/EC):

- (1) May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0,005 % by mass.
- (2) May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0,1% by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1µg /m² of the coated material.

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## **ATTACHMENT**

Used For:

H05	H03	SJT	SJTW	SVT	NISPT-2	NISPT-1	STW	VCTF
VCTFK	SJTO	SUTO	SJTOOW	ST	VCT	HVFF	HHVCTF	HVCTF
HVCTFK	STP-2	SPT-1	SPT-3	SVTW	RVV	VSF	VFF	HVSF
SJTOW	NISPT-W	NISPT-2W	SPT-3W	J03	SPT-1W	SPT-2W		

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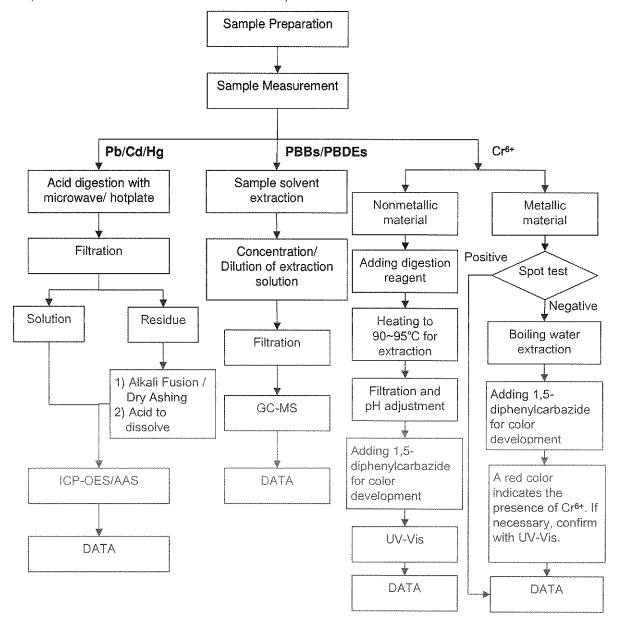
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## **ATTACHMENTS**

#### **RoHS Testing Flow Chart**

- 1) Name of the person who made testing: Bella Wang / Cutey Yu / Ross Zhan
- 2) Name of the person in charge of testing: Adams Yu / Ryan Yang
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr6+ and PBBs/PBDEs test method excluded).



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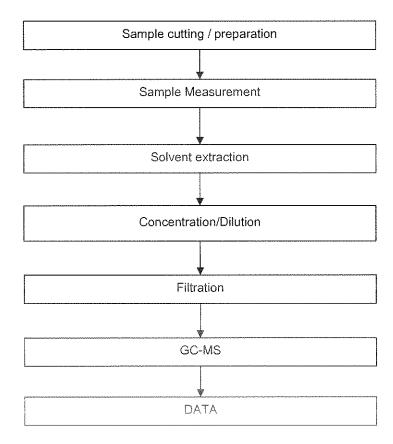
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## **ATTACHMENTS**

## **PAHs Testing Flow Chart**

- 1) Name of the person who made testing: Cutey Yu
- 2) Name of the person in charge of testing: Ryan Yang



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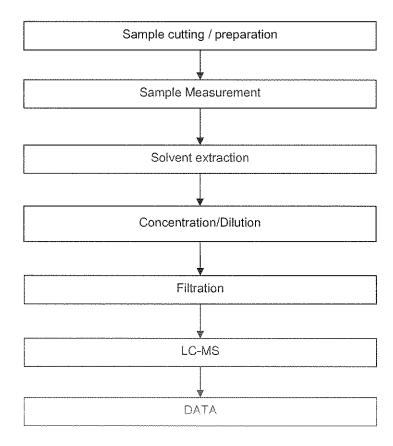
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## **ATTACHMENTS**

## PFOA / PFOS Testing Flow Chart

- 1) Name of the person who made testing: Cindy Huang
- 2) Name of the person in charge of testing: Ryan Yang



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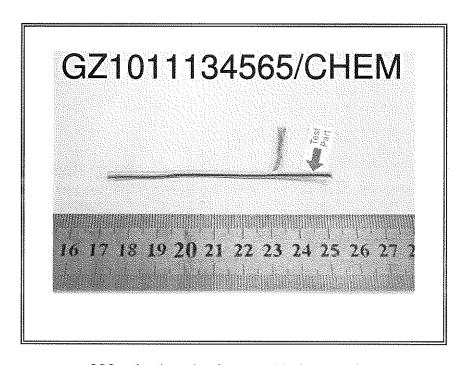


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## Sample photo:



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