億昶祥工業股份有限公司
Yi Chang Hsiang Industrial Co., Ltd.

承認書

SPECIFICATION FOR APPROVAL

2014年 12 月 12 日

■ 新製品承認
New product approval

☐ 規格變更再承認
Specification revised approval

☐ 材質變更再承認
Material revised approval

摘要: Subject:	本承認書提出 This approval for	1	份
1.	成品規格圖 Finished goods drawing	1	page
2.	頻率圖 Frequency test report	1	page
3.	產品規格書 Specification	1	page
4.	RoHS 測試報告 RoHS Test Report	59	page

貴公司Set編號: Your Company's Set number	本公司製品名稱: watching system antennas Our Company's product name
貴公司製品名稱: Your Company's product name	本公司製品編號: YCH-107-G8N-W Our Company's product serial no.
貴公司製品編號: Your Company's product serial no.	本公司成品圖圖號: YCH-107-G8N-W Our Company's producton drawing no.
貴公司規格書編號: Your Company's specification report no.	本公司規格書編號: YCH-107-G8N-W Our Company's specification report no.

承認時,請以傳真或E-MAIL此封面簽回確認。

While approving, pls fax or e-mail us back the cover sheet with your signature.

貴公司簽印 Your Company's signature	本公司簽印 Our Company's signature
	億昶祥工業股份有限公司

核准 Approved by	審查 Checked by	主辦 Prepared by
楊 2014.12.12 家驊	林 2014.12.12 岳賢	陳 2014.12.12 盈君

億昶祥工業股份有限公司

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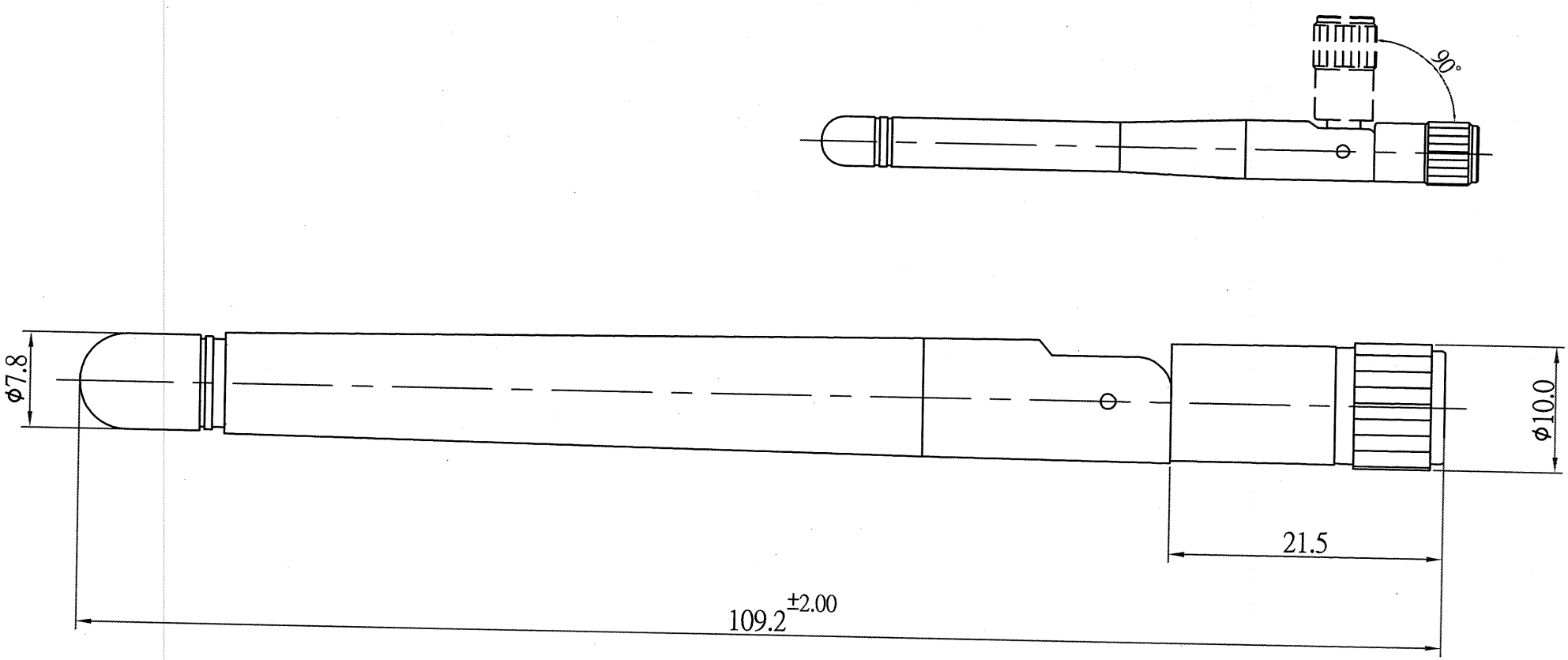
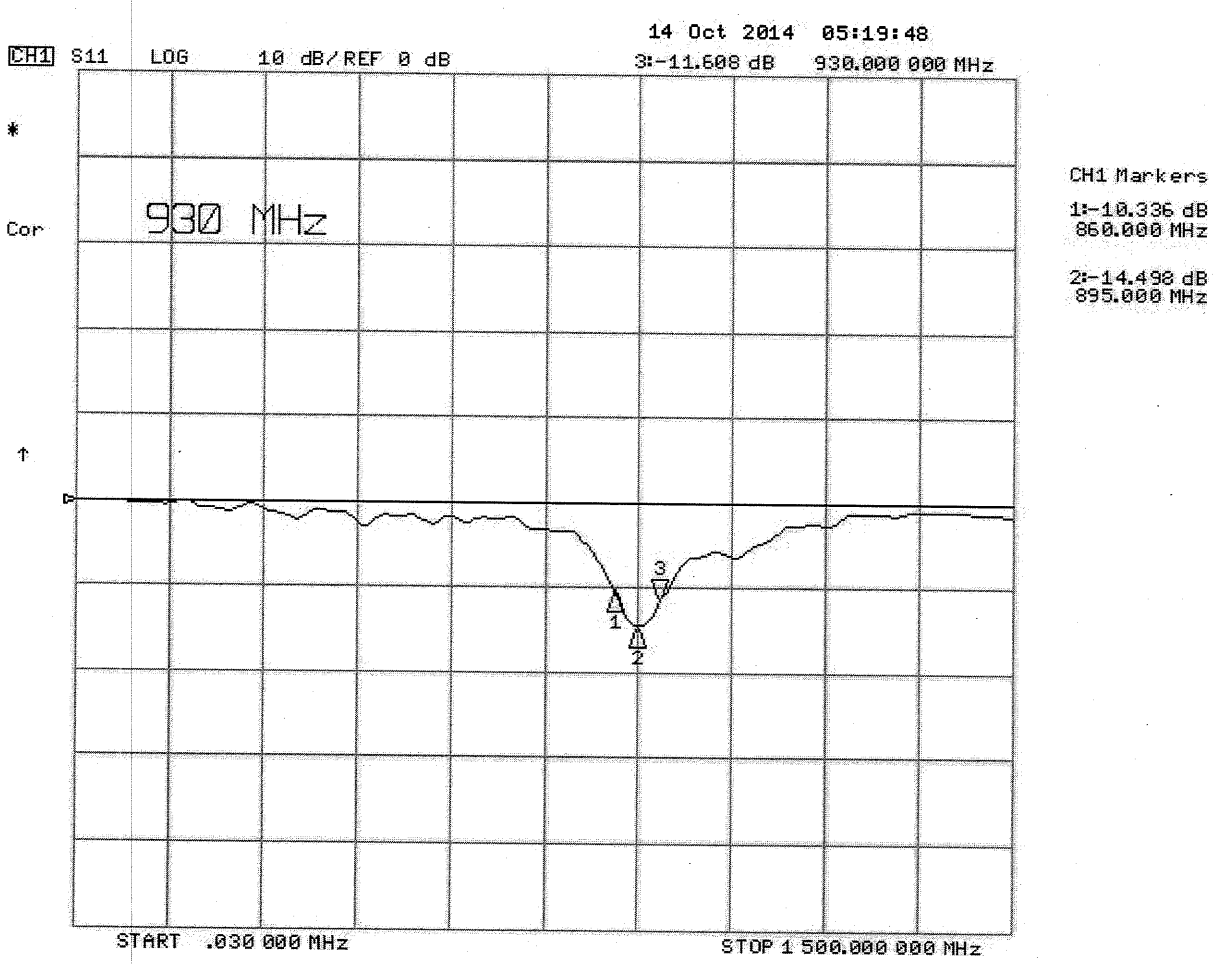


線材規格 (CABLE)　　：RG178
接頭規格 (CONNECTOR)：SMA(M)

億昶祥工業股份有限公司 研發部 2014.12.12 承認章

版次 Revision	△	年月日 yy mm dd	變更記事 Notes
1			

億昶祥工業股份有限公司 YI CHANG HSIANG INDUSTRIAL CO.,LTD				電腦檔名 Computer File Name	D:\共用圖\ D:\common Drawing\ 00	繪圖 Drawing By	CELIA 141212	核准 Checked By	楊 2014.12.12 家驊	單位 Unit	mm	材質 Material			
圖名 Drawing Name	成品圖 Finished product Drawing	圖號 Drawing No.	YCH-107-G8N-W							比例 Proportion	2:1	表面處理 Surface Proeeding	White		



德瀚洋工業股份有限公司
研發部
2014.12.12.
承認章

YCH-107-G8N-W S11

億昶祥工業股份有限公司
成品規格書(Specification Sheet)

產品別 (Product)	天線 (Antenna)	產品編號(Product Serial NO.) 規格書編號(Specification NO.)	YCH-107-G8N-W

1、一般事項(General Description)

1.1 適用範圍(Application) 天線 (ANTENNAS)

1.2 使用溫度範圍 (Operation temperature) -25～75℃

1.3 保存溫度範圍 (Storage temperature) -35～75℃

1.4 試驗條件 (Testing condition) 溫度 5～35℃、相對濕度 45～65%。
(Standard condition: under temperature range 5~35℃, humidity range 45~65 % RH.)

2、外觀、構造、尺 寸(Appearance、Construction、Dimensions)

2.1 外觀(Appearance) 各部外觀爲良好、要避免對機能上有顯着的銹、破損、油垢、傷痕等。有關外觀請參照限度樣品。
(Appearance: Well-conditioned on each part of assembly; got rid of the obvious rust, breakage, greasiness and scar … etc.)

2.2 構造、尺寸 (Construction、dimension) 請參照產品工程圖。
(According to R&D drawing)

2.3 色調(Colour) 請比照樣品。(Please refer to the related product specification drawing.)

2.4 重量 (Weight) 8.0g ± 1.0g

3、特性規格(Specifications)

3-1 頻率(Frequency) 860~930 MHz

3-2 增益(Gain) 1dBi

3-3 駐波比(VSWR) < 2.0

3-4 阻抗(Impedence) 50 Ω

3-5 接頭別(Connectors) SMA(M)

4、規範物質(Materials norm)

4-1	規範物質 (Materials norm)	在產品上所使用的材質皆符合RoHS標準。 (Products materials are compliant to ROHS)

5、包裝形式(Package)

5-1	包裝形式 (Package way)	1PC放入一個夾鍊袋。 (1 pc in a ziplock bag)

規格書制訂日期	2014.12.12

億昶祥工業股份有限公司

億昶祥工業股份有限公司 研發部 2014.12.12 承認章

測試報告(SVHC)
Test Report

號碼(No.): KA/2014/20835　日期(Date): 2014/02/21

定銘工業有限公司
DING MING INDUSTRY LTD
710臺南市永康區正南一街105巷13號
NO.13, LN. 105, ZHENGNAN 1ST ST., YONGKANG CITY, TAINAN COUNTY 710, TAIWAN (R.O.C.)

以下測試樣品係由申請廠商所提供及確認
(The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

樣品名稱(Sample Description) : 鍍鎳、金產品
收件日期(Sample Receiving Date) : 2014/02/18
測試期間(Testing Period) : 2014/02/18 TO 2014/02/21
送樣廠商(Sample Submitted By) : 定銘工業有限公司 (DING MING INDUSTRY LTD)

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測試需求(Test Requested) : 151項高關注物質篩檢. 高關注物質候選清單是根據歐洲化學總署(ECHA)於2013年12月16日，就關於REACH之Regulation (EC) No 1907/2006的公告。/ 151 Substances of Very High Concern (SVHC) screening. SVHC candidate list based on the publication by European Chemicals Agency (ECHA) on 2013 December 16, regarding Regulation (EC) No 1907/2006 concerning the REACH.

測試方法(Test Method) : 請見下一頁 (Please refer to next pages).

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

總結(Summary) : 根據歐洲化學總署及絕大部分歐盟會員國對於成品定義詮釋以及依據指定範圍和分析技術, 高關注物質(SVHC)存在於送測樣品中, 其濃度可能大於0.1% 爲 (According to the interpretation of ECHA and the majority of EU member states on the definition of an article as well as the specified scope and analytical technique, potential SVHC with concentration >0.1% of article that could be present in the submitted sample):

- 硫酸鈷(二價) / Cobalt(II) sulphate (CAS No.: 10124-43-3)
- 硝酸鈷(二價) / Cobalt(II) dinitrate (CAS No.: 10141-05-6)
- 醋酸鈷(二價) / Cobalt(II) diacetate (CAS No.: 71-48-7)

Ray Chang / Asst. Manager
Signed for and on behalf of
SGS Taiwan Limited
Chemical Laboratory-Kaohsiung

SGS TAIWAN LTD

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測試報告(SVHC)
Test Report

定銘工業有限公司
DING MING INDUSTRY LTD
710臺南市永康區正南一街105巷13號
NO.13, LN. 105, ZHENGNAN 1ST ST., YONGKANG CITY, TAINAN COUNTY 710, TAIWAN (R.O.C.)

測試樣品(Test Sample):　銅色 鍍鎳、金產品 (COPPERY 鍍鎳、金產品)

測試方法(Test Method):

參照SGS內部方法RSTS-EE-SVHC-007. 由感應耦合電漿原子發射光譜儀、紫外光可見光譜儀、氣相層析/質譜儀、液相層析質譜儀、氣相層析儀/火焰光度偵測器、液相層析/質譜儀/二極體陣列偵測器進行分析。(SGS In-House method-RSTS-EE-SVHC-007. Analyzed by ICP-AES, UV-VIS, GC/MS, LC/MS, GC/FPD, LC/MS/DAD.)

備註(Remark):

1. 151項SVHC化學分析，依歐洲化學總署(ECHA)於2013年12月16日所公佈的清單，藉由現有的分析技術進行篩檢。(The chemical analysis of 151 SVHC is performed by means of currently available analytical techniques against the list published by ECHA on 2013 December 16.)

   請參照(refer to) http://echa.europa.eu/web/guest/candidate-list-table

2. 根據Regulation (EC) No 1907/2006 中第7條款第2項之規定，如果物質合乎第57條款之標準以及可依據第59(1)條之規定鑑別，且同時符合下列兩項狀況，任何成品之製造人和進口人應向歐洲化學總署(ECHA)通報：

   (a) 成品中所含物質每年超過1公噸。
   (b) 依重量百分比計算，物質濃度超過0.1%。

   In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 2 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation,

   if (a) the substance is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w).

3. Regulation (EC) No 1907/2006中第 33 條要求成品供應商，其成品所含物質符合第57條款的標準並依照第59(1)條款確定其濃度大於0.1wt%，應提供成品接受者充份可取得資訊，以確保成品的安全使用(至少包括物質的名稱)。

   Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance.

4. 倘若SVHC超過限值，建議客戶確認含有該SVHC的零件，並要求實驗室進一步的定量分析而取得SVHC的確切濃度。

   If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

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測試報告(SVHC)
Test Report

號碼(No.): KA/2014/20835　日期(Date): 2014/02/21

定銘工業有限公司
DING MING INDUSTRY LTD
710臺南市永康區正南一街105巷13號
NO.13, LN. 105, ZHENGNAN 1ST ST., YONGKANG CITY, TAINAN COUNTY 710, TAIWAN (R.O.C.)

測試結果 (Test Results)

物質名稱 (Substance Name)	成品濃度 (Concentration) (%)	報告極限值 (RL)(%)	分類 (Classification)
蒽 / Anthracene (CAS No.: 120-12-7)	n.d.	0.05	PBT
4,4' - 二氨基二苯甲烷 / 4,4' - Diaminodiphenylmethane (CAS No.: 101-77-9)	n.d.	0.05	CC2
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	n.d.	0.05	TRC2
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	n.d.	0.05	TRC2
鄰苯二甲酸二 (2-乙基己基)酯 / Bis (2-ethyl(hexyl) phthalate) (DEHP) (CAS No.: 117-81-7)	n.d.	0.05	TRC2
二甲苯麝香 / 5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene) (CAS No.: 81-15-2)	n.d.	0.05	vPvB
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α- HBCDD, β- HBCDD, γ- HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	n.d.	0.05	PBT
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	n.d.	0.05	PBT
三丁基錫氧化物 / Bis(tributyltin)oxide (TBTO)*** (CAS No.: 56-35-9)	n.d.	-	PBT
二氯化鈷 / Cobalt dichloride (CAS No.: 7646-79-9)	n.d.	0.005	CC2; TRC2
五氧化二砷 / Diarsenic pentaoxide*** (CAS No.: 1303-28-2)	n.d.	-	CC1
三氧化二砷 / Diarsenic trioxide*** (CAS No.: 1327-53-3)	n.d.	-	CC1
三乙基砷酸酯 / Triethyl arsenate*** (CAS No.: 15606-95-8)	n.d.	-	CC1
砷酸氫鉛 / Lead hydrogen arsenate*** (CAS No.: 7784-40-9) (※1)	n.d.	-	CC1; TRC1
鉻酸鈉 / Sodium chromate*** (CAS No.: 7775-11-3)	n.d.	-	CC2; MC2; TRC2
重鉻酸銨 / Ammonium dichromate*** (CAS No.: 7789-09-5)	n.d.	-	CC2; MC2; TRC2
重鉻酸鉀 / Potassium dichromate*** (CAS No.: 7778-50-9)	n.d.	-	CC2; MC2; TRC2
鉻酸鉀 / Potassium chromate*** (CAS No.: 7789-00-6)	n.d.	-	CC2; MC2
重鉻酸鈉 / Sodium dichromate*** (CAS No.: 10588-01-9, 7789-12-0(*))	n.d.	-	CC2; MC2; TRC2

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測試報告(SVHC)
Test Report

號碼(No.): KA/2014/20835　日期(Date): 2014/02/21

定銘工業有限公司
DING MING INDUSTRY LTD
710臺南市永康區正南一街105巷13號
NO.13, LN. 105, ZHENGNAN 1ST ST., YONGKANG CITY, TAINAN COUNTY 710, TAIWAN (R.O.C.)

物質名稱 (Substance Name)	成品濃度 (Concentration) (%)	報告極限值 (RL)(%)	分類 (Classification)
三氧化鉻 / Chromium trioxide *** (CAS No.: 1333-82-0)	n.d.	-	CC2; MC2
從三氧化鉻與其它寡聚體生成的酸類: 鉻酸 / Acids generated from chromium trioxide and their oligomers: Chromic acid*** (CAS No.: 7738-94-5)	n.d.	-	CC2
從三氧化鉻與其它寡聚體生成的酸類: 重鉻酸 / Acids generated from chromium trioxide and their oligomers: Dichromic acid*** (CAS No.: 13530-68-2)	n.d.	-	CC2
從三氧化鉻與其它寡聚體生成的酸類: 鉻酸與重鉻酸的寡聚體 / Acids generated from chromium trioxide and their oligomers: Oligomers of chromic acid and dichromic acid (＊1)	n.d.	-	CC2
鉻酸鍶 / Strontium chromate*** (CAS No.: 7789-06-2)	n.d.	-	CC2
蒽油 / Anthracene oil (CAS No.: 90640-80-5) (**)	n.d.	0.05	PBT; vPvB; CC2
蒽油, 蒽糊, 輕油 / Anthracene oil, anthracene paste, distn. Lights (CAS No.: 91995-17-4) (**)	n.d.	0.05	PBT
蒽油, 蒽糊, 蒽餾分 / Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 91995-15-2) (**)	n.d.	0.05	PBT; vPvB; CC2; MC2
蒽油, 含蒽量少 / Anthracene oil, anthracene-low (CAS No.: 90640-82-7) (**)	n.d.	0.05	PBT; vPvB; CC2; MC2
蒽油, 蒽糊 / Anthracene oil, anthracene paste (CAS No.: 90640-81-6) (**)	n.d.	0.05	PBT; vPvB; CC2; MC2
煤瀝青, 高溫 / Pitch, coal tar, high-temp. (CAS No.: 65996-93-2) (**)	n.d.	0.05	PBT; vPvB; CC2
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	n.d.	0.05	TRC2
2,4-二硝基甲苯 / 2,4-Dinitrotoluene (CAS No.: 121-14-2)	n.d.	0.05	CC2
磷酸三 (2-氯乙基)酯 / Tris(2-chloroethyl) phosphate (TCEP) (CAS No.: 115-96-8)	n.d.	0.05	TRC2
鉻酸鉛 / Lead chromate (CAS No.: 7758-97-6)	n.d.	0.01	CC2; TRC1
鉬鉻紅；顏色索引: 顏料紅104 / Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (CAS No.: 12656-85-8)	n.d.	0.01	CC2; TRC1
鉻酸鉛；顏色索引: 顏料黃34 / Lead sulfochromate yellow (C.I. Pigment Yellow 34) (CAS No.: 1344-37-2)	n.d.	0.01	CC2; TRC1

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測試報告(SVHC)
Test Report

定銘工業有限公司
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710臺南市永康區正南一街105巷13號
NO.13, LN. 105, ZHENGNAN 1ST ST., YONGKANG CITY, TAINAN COUNTY 710, TAIWAN (R.O.C.)

物質名稱 (Substance Name)	成品濃度 (Concentration) (%)	報告 極限值 (RL)(%)	分類 (Classification)
丙烯醯胺 / Acrylamide (CAS No.: 79-06-1)	n.d.	0.05	CC2; MC2
硼酸 / Boric acid*** (CAS No.: 10043-35-3; 11113-50-1)	n.d.	-	TRC2
無水四硼酸二鈉 / Disodium tetraborate, anhydrous*** (CAS No.: 1303-96-4, 1330-43-4, 12179-04-3)	n.d.	-	TRC2
水合硼酸鈉 / Tetraboron disodium heptaoxide, hydrate (CAS No.: 12267-73-1) (＊2)	n.d.	-	TRC2
三氯乙烯 / Trichloroethylene (CAS No.: 79-01-6)	n.d.	0.05	CC2
硫酸鈷(二價) / Cobalt(II) sulphate*** (CAS No.: 10124-43-3)	0.118	-	CC2; TRC2
硝酸鈷(二價) / Cobalt(II) dinitrate*** (CAS No.: 10141-05-6)	0.140	-	CC2; TRC2
碳酸鈷(二價) / Cobalt(II) carbonate*** (CAS No.: 513-79-1)	0.0908	-	CC2; TRC2
醋酸鈷(二價) / Cobalt(II) diacetate*** (CAS No.: 71-48-7)	0.135	-	CC2; TRC2
乙二醇甲醚 / 2-Methoxyethanol (CAS No.: 109-86-4)	n.d.	0.05	TRC2
乙二醇乙醚 / 2-Ethoxyethanol (CAS No.: 110-80-5)	n.d.	0.05	TRC2
乙二醇乙醚乙酸酯 / 2-ethoxyethyl acetate (CAS No.: 111-15-9)	n.d.	0.05	TRC2
鄰苯二甲酸二 (C7-11支鏈與直鏈)烷基酯 / 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (CAS No.: 68515-42-4)	n.d.	0.05	TRC2
聯氨 / Hydrazine (CAS No.: 7803-57-8; 302-01-2)	n.d.	0.05	CC2
N-甲基吡咯烷酮 / 1-methyl-2-pyrrolidone (CAS No.: 872-50-4)	n.d.	0.05	TRC2
1,2,3-三氯丙烷 / 1,2,3-trichloropropane (CAS No.: 96-18-4)	n.d.	0.05	CC2; TRC2
鄰苯二甲酸二 (C6-8支鏈與直鏈)烷基酯，富C7 / 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (CAS No.: 71888-89-6)	n.d.	0.05	TRC2
砷酸 / Arsenic acid*** (CAS No.: 7778-39-4)	n.d.	-	CC1
砷酸鈣 / Calcium arsenate*** (CAS No.: 7778-44-1)	n.d.	-	CC1
砷酸鉛 / Trilead diarsenate*** (CAS No.: 3687-31-8) (※1)	n.d.	-	CC1; TRC1
疊氮化鉛 / Lead diazide, Lead azide*** (CAS No.: 13424-46-9)	n.d.	-	TRC1
中性斯蒂酚酸鉛 / Lead styphnate*** (CAS No.: 15245-44-0)	n.d.	-	TRC1
苦味酸鉛 / Lead dipicrate*** (CAS No.: 6477-64-1)	n.d.	-	TRC1
鉻酸鉻 / Dichromium tris (chromate)*** (CAS No.: 24613-89-6)	n.d.	-	CC2

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定銘工業有限公司
DING MING INDUSTRY LTD
710臺南市永康區正南一街105巷13號
NO.13, LN. 105, ZHENGNAN 1ST ST., YONGKANG CITY, TAINAN COUNTY 710, TAIWAN (R.O.C.)

物質名稱 (Substance Name)	成品濃度 (Concentration) (%)	報告 極限值 (RL)(%)	分類 (Classification)
氫氧化鉻酸鋅鉀 / Potassium hydroxyoctaoxodizincatedi-chromate*** (CAS No.: 11103-86-9)	n.d.	-	CC1
八氫氧化五鉻酸鋅/ Pentazinc chromate octahydroxide*** (CAS No.: 49663-84-5)	n.d.	-	CC1
甲醛與苯胺的寡聚體 / Formaldehyde, oligomeric reaction products with aniline (technical MDA) (CAS No.: 25214-70-4)	n.d.	0.05	CC2
鄰苯二甲酸二甲氧基乙酯 / Bis(2-methoxyethyl) phthalate (CAS No.: 117-82-8)	n.d.	0.05	TRC2
鄰甲氧基苯胺 / 2-Methoxyaniline; o-Anisidine (CAS No.: 90-04-0)	n.d.	0.05	CC2
對特辛基苯酚 / 辛基酚 / 4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol) (CAS No.: 140-66-9)	n.d.	0.05	相同危害等級 (Equivalent concern)
1,2-二氯乙烷 / 1,2-Dichloroethane (CAS No.: 107-06-2)	n.d.	0.05	CC2
双(2-甲氧基乙基)醚 / Bis(2-methoxyethyl) ether (CAS No.: 111-96-6)	n.d.	0.05	TRC2
N,N-二甲基乙醯胺 / N,N-dimethylacetamide (DMAC) (CAS No.: 127-19-5)	n.d.	0.05	TRC2
4,4'-亞甲雙 (2-氯苯胺) / 2,2'-dichloro- 4,4'-methylenedianiline (MOCA) (CAS No.: 101-14-4)	n.d.	0.05	CC2
酚酞 / Phenolphthalein (CAS No.: 77-09-8)	n.d.	0.05	CC2
矽酸鋁，耐火陶瓷纖維 (主要成分濃度於可變範圍內) / Aluminosilicate, Refractory Ceramic Fibres oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges	n.d.	0.05	CC2
鋯矽酸鋁，耐火陶瓷纖維 (主要成分濃度於可變範圍內) / Zirconia Aluminosilicate, Refractory Ceramic Fibres oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges	n.d.	0.05	CC2
三甘醇二甲醚 / 1,2-bis (2-methoxyethoxy) ethane (TEGDME; triglyme) (CAS No.: 112-49-2)	n.d.	0.05	TRC2
乙二醇二甲醚 / 1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) (CAS No.: 110-71-4)	n.d.	0.05	TRC2
甲醯胺 / Formamide (CAS No.: 75-12-7)	n.d.	0.05	TRC2

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NO.13, LN. 105, ZHENGNAN 1ST ST., YONGKANG CITY, TAINAN COUNTY 710, TAIWAN (R.O.C.)

物質名稱 (Substance Name)	成品濃度 (Concentration) (%)	報告 極限值 (RL)(%)	分類 (Classification)
甲基磺酸鉛 / Lead(II) bis(methanesulfonate)*** (CAS No.: 17570-76-2)	n.d.	-	TRC2
異氰尿酸三縮水甘油酯 / TGIC (1,3,5-tris(oxiranylmethyl)- 1,3,5-triazine-2,4,6 (1H,3H,5H)-trione) (CAS No.: 2451-62-9)	n.d.	0.05	MC2
異氰尿酸β-三縮水甘油酯 / β-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]- 1,3,5-triazine-2,4,6- (1H,3H,5H)-trione) (CAS No.: 59653-74-6) (※3)	n.d.	0.05	MC2
4,4'-二(N,N-二甲氨基)二苯甲酮 (米氏酮) / 4,4'-bis (dimethylamino) benzophenone (Michler's ketone) (CAS No.: 90-94-8)	n.d.	0.05	CC2
4,4'-(对二甲氨基)二苯基甲烷 (米氏鹼) / N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base) (CAS No.: 101-61-1)	n.d.	0.05	CC2
鹼性紫 3 [内含≥ 0.1% 的米氏酮或米氏鹼] / [4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3) (CAS No.: 548-62-9) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	CC2
鹼性藍 26 [内含≥ 0.1% 的米氏酮或米氏鹼] / [4-[[4-anilino-1-naphthyl] [4-(dimethylamino) phenyl] methylene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) (CAS No.: 2580-56-5) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	CC2
溶劑藍 4 [内含≥ 0.1% 的米氏酮或米氏鹼] / α,α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4) (CAS No.: 6786-83-0) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	CC2
三氧化二硼 / Diboron trioxide*** (CAS No.: 1303-86-2)	n.d.	-	TRC2
α, α-二[(二甲氨基)苯基]-4-甲氨基苯甲醇 [内含≥ 0.1% 的米氏酮或米氏鹼] / 4,4'-bis (dimethylamino)-4''-(methylamino) trityl alcohol (CAS No.: 561-41-1) [with ≥ 0.1% of Michler's ketone or Michler's base]	n.d.	0.05	CC2
十溴聯苯醚 / Bis(pentabromophenyl) ether (DecaBDE) (CAS No.: 1163-19-5)	n.d.	0.05	PBT

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710臺南市永康區正南一街105巷13號
NO.13, LN. 105, ZHENGNAN 1ST ST., YONGKANG CITY, TAINAN COUNTY 710, TAIWAN (R.O.C.)

物質名稱 (Substance Name)	成品濃度 (Concentration) (%)	報告極限值 (RL)(%)	分類 (Classification)
全氟十三酸 / Pentacosafluorotridecanoic acid (CAS No.: 72629-94-8)	n.d.	0.05	PBT
全氟十二酸 / Tricosafluorododecanoic acid (CAS No.: 307-55-1)	n.d.	0.05	PBT
全氟十一酸 / Henicosafluoroundecanoic acid (CAS No.: 2058-94-8)	n.d.	0.05	PBT
全氟十四酸 / Heptacosafluorotetradecanoic acid (CAS No.: 376-06-7)	n.d.	0.05	PBT
4-(1,1,3,3-四甲基丁基)苯酚, 乙氧基一 以及所有的被定義的物質，未知成分或可變成分的物質，聚合物和同系物 / 4-(1,1,3,3-tetramethylbutyl) phenol, ethoxylated- covering well-defined substances and UVCB substances, polymers and homologues	n.d.	0.05	相同危害等級 (Equivalent concern)
分支或線性的壬基酚，包括含有9個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支9個碳烷基鏈的UVCB物質 / 4-Nonylphenol, branched and linear - substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	n.d.	0.05	相同危害等級 (Equivalent concern)
偶氮[二]甲醯胺 / Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (CAS No.: 123-77-3)	n.d.	0.05	相同危害等級 (Equivalent concern)
六氫苯二甲酸酐 / Cyclohexane-1,2-dicarboxylic anhydride (HHPA), cis-cyclohexane-1,2- dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA) (CAS No.: 85-42-7, 13149-00-3, 14166-21-3)	n.d.	0.05	相同危害等級 (Equivalent concern)
甲基六氫苯酐 / Hexahydromethylphathalic anhydride (CAS No.: 25550-51-0) 4-甲基六氫苯酐 / Hexahydro-4-methylphathalic anhydride (CAS No.: 19438-60-9) 1-甲基六氫苯酐 / Hexahydro-1-methylphathalic anhydride (CAS No.: 48122-14-1) 3-甲基六氫苯酐 / Hexahydro-3-methylphathalic anhydrid	n.d.	0.05	相同危害等級 (Equivalent concern)
甲氧基乙酸 / Methoxy acetic acid (CAS No.: 625-45-6)	n.d.	0.05	TRC2
支鏈和直鏈1,2-苯二羧二戊酯 / 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (CAS No.: 84777-06-0)	n.d.	0.05	TRC2
鄰苯二甲酸二異戊酯 / Diisopentylphthalate (CAS No.: 605-50-5)	n.d.	0.05	TRC2

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NO.13, LN. 105, ZHENGNAN 1ST ST., YONGKANG CITY, TAINAN COUNTY 710, TAIWAN (R.O.C.)

物質名稱 (Substance Name)	成品濃度 (Concentration) (%)	報告 極限值 (RL)(%)	分類 (Classification)
鄰苯二甲酸正戊基異戊基酯 / N-pentyl-isopentylphtalate (CAS No.: 776297-69-9)	n.d.	0.05	TRC2
乙二醇二乙醚 / 1,2-Diethoxyethane (CAS No.: 629-14-1)	n.d.	0.05	TRC2
N,N-二甲基甲醯胺 / N,N-dimethylformamide; dimethyl formamide (CAS No.: 68-12-2)	n.d.	0.05	TRC2
二氯二丁基錫 / Dibutyltin dichloride (DBTC) (CAS No.: 683-18-1)	n.d.	0.05	TRC2
堿式醋酸鉛 / Acetic acid, lead salt, basic*** (CAS No.: 51404-69-4)	n.d.	-	TRC1
堿式碳酸鉛 / Trilead bis(carbonate) dihydroxide (basic lead carbonate)*** (CAS No.: 1319-46-6)	n.d.	-	TRC1
堿式硫酸鉛 / Lead oxide sulfate*** (CAS No.: 12036-76-9)	n.d.	-	TRC1
[1,2-苯二羧酸根合]二氧化三鉛 / [Phthalato(2-)] dioxotrilead*** (CAS No.: 69011-06-9)	n.d.	-	TRC1
雙(十八酸基)二氧代三鉛 / Dioxobis(stearato) trilead*** (CAS No.: 12578-12-0)	n.d.	-	TRC1
C16-18-脂肪酸鉛鹽 / Fatty acids, C16-18, lead salts*** (CAS No.: 91031-62-8)	n.d.	-	TRC1
氨基氰鉛鹽 / Lead cyanamidate*** (CAS No.: 20837-86-9)	n.d.	-	TRC1
硝酸鉛 / Lead dinitrate*** (CAS No.: 10099-74-8)	n.d.	-	TRC1
氧化鉛 / Lead oxide (lead monoxide)*** (CAS No.: 1317-36-8)	n.d.	-	TRC1
四氧化鉛 / Lead tetroxide (orange lead)*** (CAS No.: 1314-41-6)	n.d.	-	TRC1
氧化鉛與硫酸鉛的複合物 / Pentalead tetraoxide sulphate*** (CAS No.: 12065-90-6)	n.d.	-	TRC1
矽酸鉛 / Silicic acid, lead salt*** (CAS No.: 11120-22-2)	n.d.	-	TRC1
亞硫酸鉛(II) / Sulfurous acid, lead salt, dibasic*** (CAS No.: 62229-08-7)	n.d.	-	TRC1
四乙基鉛 / Tetraethyllead*** (CAS No.: 78-00-2)	n.d.	-	TRC1
三鹼式硫酸鉛/ C.I. 顏料白 / Tetralead trioxide sulphate*** (CAS No.: 12202-17-4)	n.d.	-	TRC1

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物質名稱 (Substance Name)	成品濃度 (Concentration) (%)	報告極限值 (RL)(%)	分類 (Classification)
四氟硼酸鉛 (II) / Lead bis(tetrafluoroborate)*** (CAS No.: 13814-96-5)	n.d.	-	TRC1
鈦酸鉛 / Lead titanium trioxide*** (CAS No.: 12060-00-3)	n.d.	-	TRC1
鈦酸鉛鋯 / Lead Titanium Zirconium Oxide*** (CAS No.: 12626-81-2)	n.d.	-	TRC1
C.I.顏料黃41 / Pyrochlore, antimony lead yellow*** (CAS No.: 8012-00-8)	n.d.	-	TRC1
磷酸氧化鉛 / Trilead dioxide phosphonate*** (CAS No.: 12141-20-7)	n.d.	-	TRC1
含鉛的矽酸鋇 / Silicic acid, barium salt, lead-doped*** (CAS No.: 68784-75-8)	n.d.	-	TRC1
呋喃 / Furan (CAS No.: 110-00-9)	n.d.	0.05	CC2
環氧丙烷 / Propylene oxide; 1,2-epoxypropane; methyloxirane (CAS No.: 75-56-9)	n.d.	0.05	CC2; MC2
硫酸二乙酯 / Diethyl sulphate (CAS No.: 64-67-5)	n.d.	0.05	CC2; MC2
硫酸二甲酯 / Dimethyl sulphate (CAS No.: 77-78-1)	n.d.	0.05	CC2
3-乙基-2-甲基-2-(3-甲基丁基)-1,3-惡唑烷 / 3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine (CAS No.: 143860-04-2)	n.d.	0.05	TRC2
2-(1-甲基丙基)-4,6-二硝基苯酚 / Dinoseb (CAS No.: 88-85-7)	n.d.	0.05	TRC2
4,4'-二氨基-3,3'-二甲基聯苯基甲烷 / 4,4'-methylenedi-o-toluidine (CAS No.: 838-88-0)	n.d.	0.05	CC2
4,4'-二氨基二苯醚 / 4,4'-oxydianiline and its salts (CAS No.: 101-80-4)	n.d.	0.05	CC2; MC2
4-苯基偶氮基苯胺 / 4-Aminoazobenzene; 4-Phenylazoaniline (CAS No.: 60-09-3)	n.d.	0.05	CC2
2,4-二氨基甲苯 / 4-methyl-m-phenylenediamine (2,4-toluenediamine) (CAS No.: 95-80-7)	n.d.	0.05	CC2
3-甲基-6-甲氧基苯胺 / 6-methoxy-m-toluidine (p-cresidine) (CAS No.: 120-71-8)	n.d.	0.05	CC2
4-胺基聯苯 / Biphenyl-4-ylamine (CAS No.: 92-67-1)	n.d.	0.05	CC1
鄰氨基偶氮甲苯 / o-aminoazotoluene (CAS No.: 97-56-3)	n.d.	0.05	CC2
鄰甲苯胺 / o-Toluidine; 2-Aminotoluene (CAS No.: 95-53-4)	n.d.	0.05	CC2

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測試報告(SVHC)
Test Report

號碼(No.): KA/2014/20835　日期(Date): 2014/02/21

定銘工業有限公司
DING MING INDUSTRY LTD
710臺南市永康區正南一街105巷13號
NO.13, LN. 105, ZHENGNAN 1ST ST., YONGKANG CITY, TAINAN COUNTY 710, TAIWAN (R.O.C.)

物質名稱 (Substance Name)	成品濃度 (Concentration) (%)	報告 極限值 (RL)(%)	分類 (Classification)
N-甲基乙醯胺 / N-methylacetamide (CAS No.: 79-16-3)	n.d.	0.05	TRC2
正丙基溴 / 1-bromopropane (CAS No.: 106-94-5)	n.d.	0.05	TRC2
全氟辛酸 / Pentadecafluorooctanoic acid (PFOA) (CAS No.: 335-67-1)	n.d.	0.05	TRC 1B & PBT
全氟辛酸銨 / Ammoniumpentadecafluorootanoate (APFO)*** (CAS No.: 3825-26-1)	n.d.	0.05	TRC 1B & PBT
鎘 / Cadmium (Cd) (CAS No.: 7440-43-9)	n.d.	0.005	CC 1B & EQC
氧化鎘 / Cadmium oxide*** (CAS No.: 1306-19-0)	n.d.	-	CC 1B & EQC
鄰苯二甲酸二戊酯 / DPP (Di-pentyl phthalate) (CAS No.: 131-18-0)	n.d.	0.05	TRC 1B
分支或線性的乙氧化壬基酚，包括含有9個碳烷基鏈的所有獨立的同分異構體和所有含有線性或分支9個碳烷基鏈的UVCB物質 / 4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	n.d.	0.05	EQC
鄰苯二甲酸二己酯 / Dihexyl phthalate (CAS No.: 84-75-3)	n.d.	0.05	TRC 1B
直接紅28 / Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) (CAS No.: 573-58-0)	n.d.	0.05	CC 1B
直接黑38 / Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38) (CAS No.: 1937-37-7)	n.d.	0.05	CC 1B
亞乙基硫脲 / Imidazolidine-2-thione; 2-imidazoline-2-thiol (CAS No.: 96-45-7)	n.d.	0.05	TRC 1B
磷酸三(二甲苯)酯 / Trixylyl phosphate (CAS No.: 25155-23-1)	n.d.	0.05	TRC 1B
硫化鎘 / Cadmium sulphide*** (CAS No.: 1306-23-6)	n.d.	-	CC 1B & EQC
醋酸鉛 / Lead di(acetate)*** (CAS No.: 301-04-2)	n.d.	-	TRC 1A

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備註(Note)：

1. mg/kg = ppm；0.1wt% = 1000ppm
2. n.d.= not detected = below Reporting Limit / 未檢出
3. RL = Reporting Limit / 報告極限值
4. (*): 重鉻酸鈉二水合物(CAS No.: 7789-12-0)含量 = 重鉻酸鈉含量 × 1.1374
   (conc. of Sodium dichromate dihydrate = conc. of sodium dichromate × 1.1374)
5. (＊1): 鉻酸與重鉻酸的寡聚體: 因爲其寡聚體是由未知數的鉻酸或與重鉻酸所組成，而導致沒有固定分子量，因此以單體鉻酸或重鉻酸較爲重要並應被考慮。/ Oligomers of chromic acid and dichromic acid : since the oligomers are made of the unknown amount of chromic acid or dichromic acid that results in no fixed molecular weight, therefore the monomer of chromic acid or dichromic acid is relevant and considered.
6. (＊2): 水合硼酸鈉: 依照歐洲化學總署解釋以無水四硼酸二鈉數據作爲代表(歐洲化學總署回信編號 Ref no.: INC 000000032519) / Tetraboron disodium heptaoxide, hydrate: Only anhydrous form of disodium tetraborate is relevant and considered according to ECHA explanation (Ref no.: INC 000000032519).
7. (**): 上述混合物的濃度是經由所獲得的成分比例介於被選擇標靶物及混合物所推估出來. / The concentrations of above-mentioned mixtures are evaluated per the gained composition rate between the selected marks and the mixtures.

8. ***: 該物質是由三丁基錫、全氟辛酸或各別元素 (例如: 砷、鉛、六價鉻、硼、鈷、鋇、鎘)之測試結果計算得知. / The substance was calculated by the test results of Tributyl Tin, PFOA or element (Ex. Arsenic, Lead, Cr(VI), Boron, Cobalt, Barium, Cadmium respectively).

測試結果如下(The test result is given as):

物質名稱 (Substance Name)	成品濃度 (Concentration) (%)	報告極限值 (RL)(%)
三丁基錫 / Tributyl Tin (TBT)	n.d.	0.05
砷 / Arsenic (As) (※2)	n.d.	0.005
鉛 / Lead (Pb)	n.d.	0.005
六價鉻 / Hexavalent Chromium Cr(VI)	n.d.	0.005
硼 / Boron (B) (※2)	n.d.	0.005
鈷 / Cobalt (Co)	0.0450	0.005

9. (※1): 此砷鉛化合物之濃度是取砷及鉛兩者各別換算出砷鉛化合物濃度，並取其最小值做爲最後出報告之依據.
   (Regarding the compound containing arsenic and lead, lead and arsenic are tested and respectively used for the calculation of the independent concentration of the compound containing arsenic and lead. The minimum value of the two independently calculated concentrations is used as the final concentration for the report.)

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10. "-" = Not Regulated (無規格值)
11. F 參數換算表/F Parameter Conversion Table：Please refer to http://twap.sgs.com/sgsrsts/chn/download-REACH_tw.asp
12. 分類/Classification：Please refer to http://twap.sgs.com/sgsrsts/chn/download-REACH_tw.asp
13. (※2): 被萃取出的溶出硼/砷是以感應耦合電漿原子發射光譜儀檢測得之. / The extracted soluble Boron / Arsenic are detected by ICP-AES.
14. (※3): 由於TGIC本身含有β-TGIC，依照ECHA 技術文件 β-TGIC與 TGIC 約爲 1:10 比例，因此β-TGIC將以1/10 的TGIC計算濃度。/ TGIC is a mixture and also contains β-TGIC. According to the ECHA's technical dossier the ratio of β-TGIC to TGIC is around 1 to 10. Therefore β-TGIC is issued based on the above-mentioned ratio.

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SVHC 分析流程圖 / Analytical flow chart of SVHC

- 測試人員：劉俊宏/陳威錚/黃璟瓔/ Name of the person who made measurement: Jony Liu/Dorothy Chen/Ginny Huang
- 測試負責人：張伯睿/ Name of the person in charge of measurement: Ray Chang

取樣 / Sampling

↓

樣品以酸消化，溶劑萃取預處理 /
Sample pretreated by acid digestion, solvent extraction

↓

由感應耦合電漿原子發射光譜儀、紫外光可見光譜儀、氣相層析/質譜儀、液相層析質譜儀、氣相層析儀/火焰光度偵測器、液相層析/質譜儀/二極體陣列偵測器進行分析。/ Analyzed by ICP-AES, UV-VIS, GC/MS, LC/MS, GC/FPD, LC/MS/DAD.

↓

數據 / Data

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* 照片中如有箭頭標示，則表示爲實際檢測之樣品/部位. *
(The tested sample / part is marked by an arrow if it's shown on the photo.)

KA/2014/20835

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測試報告(SVHC)
Test Report

號碼(No.): KA/2014/20835　日期(Date): 2014/02/21

定銘工業有限公司
DING MING INDUSTRY LTD
710臺南市永康區正南一街105巷13號
NO.13, LN. 105, ZHENGNAN 1ST ST., YONGKANG CITY, TAINAN COUNTY 710, TAIWAN (R.O.C.)

【附錄 (Appendix) A】

SVHC 調查表(SURVEY FORM)			
公司名稱(Company Name)	定銘工業有限公司 (DING MING INDUSTRY LTD)		
樣品名稱(Product Name)	鍍鎳、金產品		
產品/取樣重量(Product/Sampling weight)	80 g		
報告號碼(Report No.)	KA/2014/20835		
物質鑑定(Substance identification)			
物質名稱 (Substance name)	成品濃度 (Concentration) (%)	重量 (weight) (mg)	安全資訊的提供，根據 Article 33 (providing information about safe use according to Article 33 is necessary)
硫酸鈷(二價) / Cobalt(II) sulphate	0.118	94.4	Yes
硝酸鈷(二價) / Cobalt(II) dinitrate	0.140	112	Yes
醋酸鈷(二價) / Cobalt(II) diacetate	0.135	108	Yes

** 報告結尾(End of Report) **

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測試報告
Test Report

號碼(No.) : CE/2014/74962　　日期(Date) : 2014/07/31　　頁數(Page): 1 of 4

昇華工業股份有限公司
SHERNG HWA INDUSTRY CO., LTD.
彰化縣鹿港鎮鹿工路28號
NO. 28, LUGONG RD., LUGANG TOWNSHIP, CHANGHUA COUNTY 505, TAIWAN

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

送樣廠商(Sample Submitted By)	:	昇華工業股份有限公司 (SHERNG HWA INDUSTRY CO., LTD.)
樣品名稱(Sample Description)	:	FREE CUTTING BRASS BAR (低鎘黃銅棒)
樣品型號(Style/Item No.)	:	C3604
收件日期(Sample Receiving Date)	:	2014/07/25
測試期間(Testing Period)	:	2014/07/25 TO 2014/07/31

==========

測試需求(Test Requested) : 依據客户要求, 參考RoHS 2011/65/EU Annex II 指令進行鎘, 鉛, 汞, 六價鉻測試. (As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI) contents in the submitted sample.)

測試方法(Test Method) : 請見下一頁 (Please refer to next pages).

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).

Nicole Chien / Supervisor
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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測試報告
Test Report

昇華工業股份有限公司
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彰化縣鹿港鎮鹿工路28號
NO. 28, LUGONG RD., LUGANG TOWNSHIP, CHANGHUA COUNTY 505, TAIWAN

測試結果(Test Results)

測試部位(PART NAME)No.1　:　黃銅色金屬棒 (BRASS METAL BAR)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測極限值 (MDL)	結果 (Result) No.1
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	18
鉛 / Lead (Pb)	mg/kg		2	30200
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI)	**	參考IEC 62321: 2008方法, 以沸水萃取法檢測. / With reference to IEC 62321: 2008 and performed by Boiling water extraction Method.#	#	Negative

備註(Note)：

1. mg/kg = ppm；0.1wt% = 1000ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. **= Qualitative analysis (No Unit) 定性分析(無單位)
5. # = a. Positive means the presence of CrVI on the tested areas (Positive表示測試區域偵測到六價鉻)
   b. Negative means the absence of CrVI on the tested areas (Negative表示測試區域未偵測到六價鉻)

The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm^2 tested areas. / 該溶液濃度≧0.02 mg/kg with 50 cm^2 (tested areas)

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Test Report

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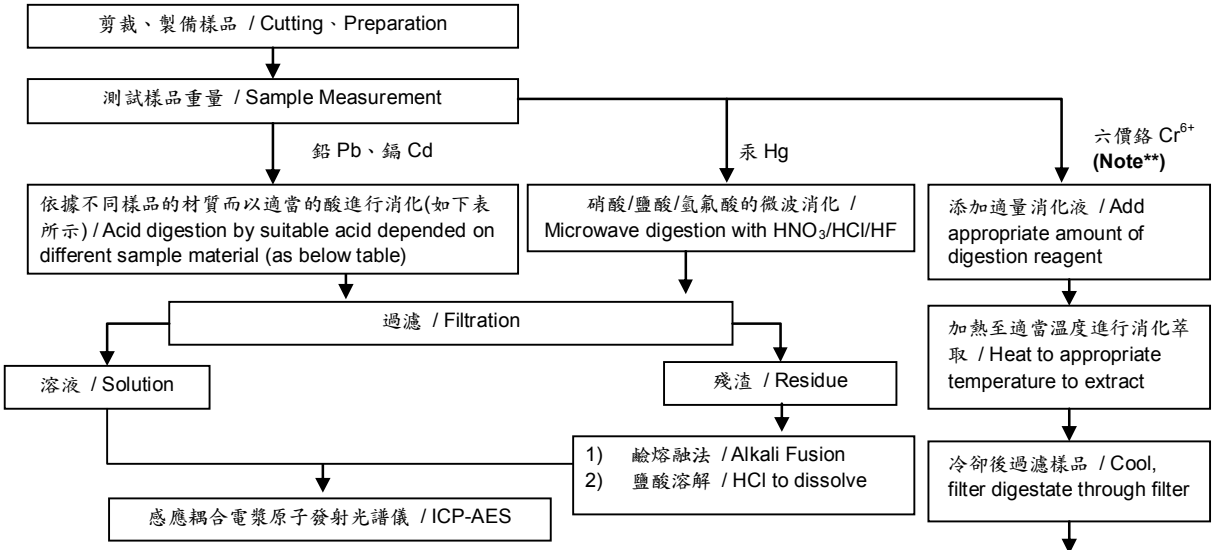
1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)
2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



樣品材質 / Sample Material	消化酸液種類 / Digestion Acid
鋼，銅，鋁，焊錫 / Steel, copper, aluminum, solder	王水，硝酸，鹽酸，氫氟酸，雙氧水 / Aqua regia, HNO_3, HCl, HF, H_2O_2
玻璃 / Glass	硝酸,氫氟酸 / HNO_3/HF
金，鉑，鈀，陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO_3
塑膠 / Plastic	硫酸，雙氧水，硝酸，鹽酸 / H_2SO_4, H_2O_2, HNO_3, HCl
其他 / Others	加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion

Note:** (1) 針對非金屬材料加入鹼性消化液，加熱至 90~95℃ 萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.
(2) 針對金屬材料加入純水，加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.

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測試報告
Test Report

昇華工業股份有限公司
SHERNG HWA INDUSTRY CO., LTD.
彰化縣鹿港鎮鹿工路28號
NO. 28, LUGONG RD., LUGANG TOWNSHIP, CHANGHUA COUNTY 505, TAIWAN

* 照片中如有箭頭標示，則表示爲實際檢測之樣品/部位. *
(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2014/74962

** 報告結尾 (End of Report) **

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測試報告
Test Report

號碼(No.) : CE/2013/C5280　　日期(Date) : 2013/12/31　　

長春人造樹脂廠股份有限公司
CHANG CHUN PLASTICS CO., LTD.
(CHANG CHUN CHEMICAL (ZHANGZHOU) CO., LTD.)
(CHANG CHUN CHEMICAL (JIANGSU) CO., LTD.)
台北市中山區松江路301號7樓 / 7TH FL., NO. 301, SONG KIANG ROAD, TAIPEI, TAIWAN

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

送樣廠商(Sample Submitted By)	:	長春人造樹脂廠股份有限公司 (CHANG CHUN PLASTICS CO., LTD.)
樣品名稱(Sample Description)	:	POLYBUTYLENE TEREPHTHALATE (PBT)
樣品型號(Style/Item No.)	:	PBT (6000, 6010, 6015, 6020, 6030, 6040, 6100, 6110, 6115, 6120, 6130, 6140, 6700, 6704, 6708, 6710, 6715, 6720, 6730, 6930, 6700H, 6715H, 6730H)
收件日期(Sample Receiving Date)	:	2013/12/26
測試期間(Testing Period)	:	2013/12/26 TO 2013/12/31

測試需求(Test Requested)	:	依據客户要求，參考RoHS 2011/65/EU Annex II 指令進行鎘，鉛，汞，六價鉻，多溴聯苯，多溴聯苯醚測試. (As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.)
測試方法(Test Method)	:	請見下一頁 (Please refer to next pages).
測試結果(Test Results)	:	請見下一頁 (Please refer to next pages).
結論(Conclusion)	:	根據客户所提供的樣品，其鎘，鉛，汞，六價鉻，多溴聯苯，多溴聯苯醚的測試結果符合RoHS指令2002/95/EC的更新指令2011/65/EU之要求 (Based on the performed tests on submitted samples, the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.)

SGS TAIWAN LTD

Troy Chang / Manager-Tech
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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測試報告
Test Report

號碼(No.) : CE/2013/C5280　　日期(Date) : 2013/12/31　　

長春人造樹脂廠股份有限公司
CHANG CHUN PLASTICS CO., LTD.
(CHANG CHUN CHEMICAL (ZHANGZHOU) CO., LTD.)
(CHANG CHUN CHEMICAL (JIANGSU) CO., LTD.)
台北市中山區松江路301號7樓 / 7TH FL., NO. 301, SONG KIANG ROAD, TAIPEI, TAIWAN

測試結果(Test Results)

測試部位(PART NAME)No.1　:　白色塑膠粒 (WHITE PLASTIC PELLETS)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測極限值 (MDL)	結果 (Result) No.1	法規限值 (Limit)
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法，以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	100
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法，以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法，以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考IEC 62321: 2008方法，以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	1000
多溴聯苯總和 / Sum of PBBs	mg/kg	參考IEC 62321: 2008方法，以氣相層析/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n.d.	-
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.	-
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.	-
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n.d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n.d.	-
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n.d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n.d.	-
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n.d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n.d.	-

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測試報告
Test Report

號碼(No.) : CE/2013/C5280　　日期(Date) : 2013/12/31　　

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CHANG CHUN PLASTICS CO., LTD.
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(CHANG CHUN CHEMICAL (JIANGSU) CO., LTD.)
台北市中山區松江路301號7樓 / 7TH FL., NO. 301, SONG KIANG ROAD, TAIPEI, TAIWAN

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測極限值 (MDL)	結果 (Result) No.1	法規限值 (Limit)
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	參考IEC 62321: 2008方法，以氣相層析/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.	1000
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n.d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n.d.	-
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n.d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n.d.	-
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.	-
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.	-
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.	-
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n.d.	-
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		5	n.d.	-

備註(Note)：

1. mg/kg = ppm；0.1wt% = 1000ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)

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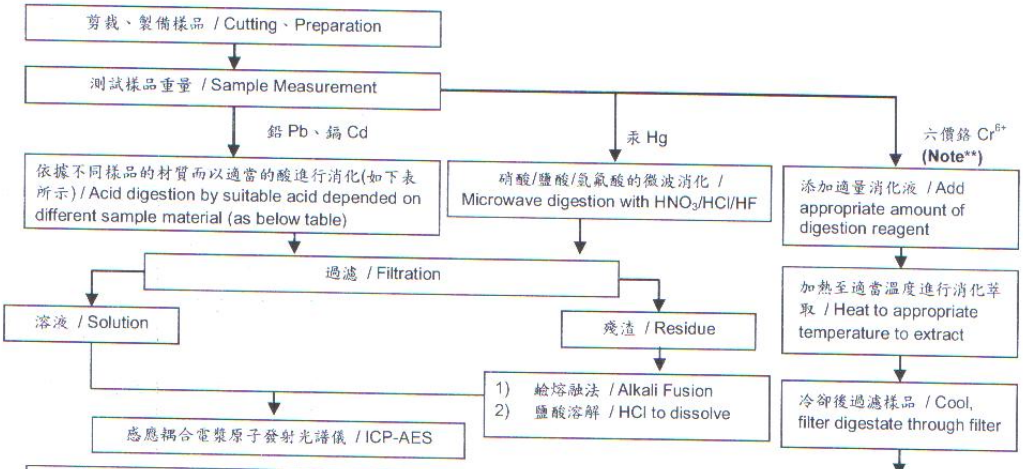
1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)
2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



樣品材質 / Sample Material	消化酸液種類 / Digestion Acid
鋼, 銅, 鋁, 焊錫 / Steel, copper, aluminum, solder	王水, 硝酸, 鹽酸, 氫氟酸, 雙氧水 / Aqua regia, HNO_3, HCl, HF, H_2O_2
玻璃 / Glass	硝酸,氫氟酸 / HNO_3/HF
金, 鉑, 鈀, 陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO_3
塑膠 / Plastic	硫酸, 雙氧水, 硝酸, 鹽酸 / H_2SO_4, H_2O_2, HNO_3, HCl
其他 / Others	加入適當的試劑至完全溶解 / Added appropriate reagent to total digestion

Note (For IEC 62321)**
(1) 針對非金屬材料加入鹼性消化液，加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.
(2) 針對金屬材料加入純水，加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.

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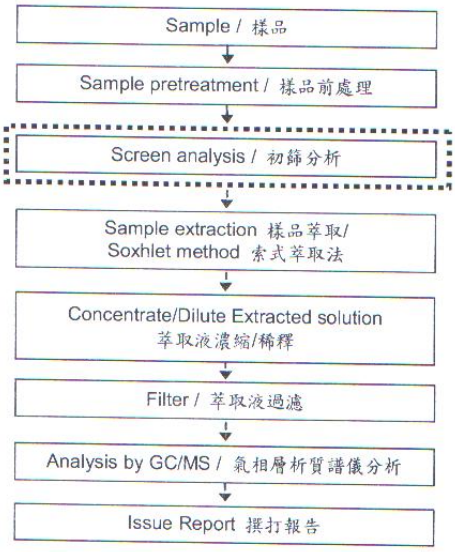
台北市中山區松江路301號7樓 / 7TH FL., NO. 301, SONG KIANG ROAD, TAIPEI, TAIWAN

多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

■ 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
■ 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang

初次測試程序 / First testing process ⟶
選擇性篩檢程序 / Optional screen process ⋯⋯
確認程序 / Confirmation process — · — ·▸



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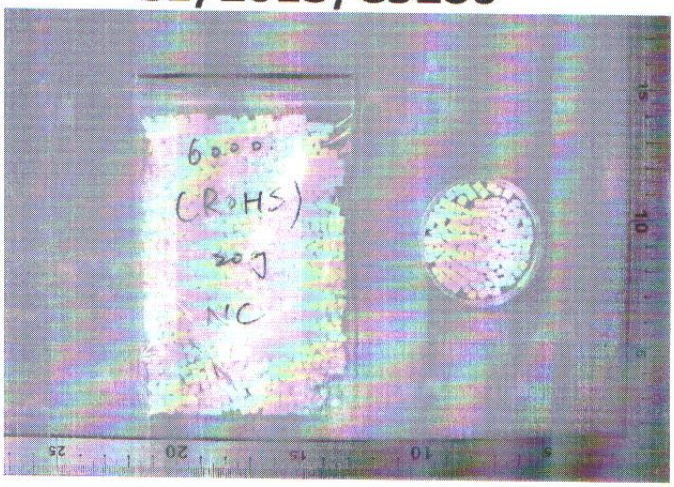
* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位. *
(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2013/C5280



** 報告結尾 (End of Report) **

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Test Report

Report No. RHS01G004795001

Applicant SHENZHEN HILETON TECHNOLOGY CO;LTD

Address H BUILDING 3 FLOOR,SHIWEI DA TIAN YANG INDUSTRIAL ZONE C, GONGMING OFFICE JIANGSHI COMMUNITY,GUANGMING NEW DISTRICT, SHENZHEN

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name	Coaxial Cable
Part No.	RG178,RG179,RG316, RF0.81,RF1.13,RF1.32,RF1.37
Sample Received Date	Mar. 4, 2014
Testing Period	Mar. 4, 2014 to Mar. 11, 2014

Test Requested As specified by client, to screen the 151 substances of very high concern(SVHC) under Regulation(EC) No 1907/2006 of REACH in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Summary According to the analytical results, concentrations of 151 SVHC substances are all less than 0.1%(w/w) in the submitted sample(s).

Tested by Rick Lin Reviewed by Vangan He

Approved by Date Mar. 11, 2014

Danny Liu
Technical Manager

No. 1078415283

Test Report

Test Result(s)

No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit
1	Anthracene	120-12-7	204-371-1	N.D.	0.005%
2	4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	N.D.	0.005%
3	Dibutyl phthalate(DBP)	84-74-2	201-557-4	N.D.	0.005%
4	Cobalt dichloride*	7646-79-9	231-589-4	N.D.	0.01%
5	Diarsenic pentaoxide*	1303-28-2	215-116-9	N.D.	0.01%
6	Diarsenic trioxide*	1327-53-3	215-481-4	N.D.	0.01%
7	Sodium dichromate*	7789-12-0/ 10588-01-9	234-190-3	N.D.	0.01%
8	Musk xylene	81-15-2	201-329-4	N.D.	0.005%
9	Bis(2-ethyl(hexyl)phthalate)(DEHP)	117-81-7	204-211-0	N.D.	0.005%
10	Hexabromocyclododecane (HBCDD)	25637-99-4/ 3194-55-6	247-148-4/ 221-695-9	N.D.	0.005%
11	Short Chain Chlorinated Paraffins(SCCPs)	85535-84-8	287-476-5	N.D.	0.01%
12	Bis(tributyltin)oxide (TBTO)*	56-35-9	200-268-0	N.D.	0.005%
13	Lead hydrogen arsenate*	7784-40-9	232-064-2	N.D.	0.01%
14	Benzyl butyl phthalate(BBP)	85-68-7	201-622-7	N.D.	0.005%
15	Triethyl arsenate*	15606-95-8	427-700-2	N.D.	0.01%
16	①Anthracene oil	90640-80-5	292-602-7	N.D.	0.05%
17	①Anthracene oil, anthracene paste, distn. Lights ****	91995-17-4	295-278-5	N.D.	0.05%
18	①Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	N.D.	0.05%
19	①Anthracene oil, anthracene-low	90640-82-7	292-604-8	N.D.	0.05%
20	①Anthracene oil, anthracene paste	90640-81-6	292-603-2	N.D.	0.05%
21	①Coal tar pitch, high temperature	65996-93-2	266-028-2	N.D.	0.05%
22	Acrylamide	79-06-1	201-173-7	N.D.	0.01%
23	2,4-Dinitrotoluene	121-14-2	204-450-0	N.D.	0.01%
24	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	N.D.	0.005%
25	②Lead chromate	7758-97-6	231-846-0	N.D.	0.05%
26	②Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	12656-85-8	235-759-9	N.D.	0.05%
27	②Lead sulfochromate yellow (C.I. Pigment Yellow 34)***	1344-37-2	215-693-7	N.D.	0.05%
28	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	204-118-5	N.D.	0.01%

Test Report

No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit
29	Trichloroethylene	79-01-6	201-167-4	N.D.	0.005%
30	③Boric acid	10043-35-3 11113-50-1	233-139-2 234-343-4	N.D.	0.01%
31	③Disodium tetraborate, anhydrous*****	1330-43-4 12179-04-3 1303-96-4	215-540-4	N.D.	0.01%
32	③Tetraboron disodium heptaoxide, hydrate*****	12267-73-1	235-541-3	N.D.	0.01%
33	Sodium chromate*	7775-11-3	231-889-5	N.D.	0.01%
34	Potassium chromate*	7789-00-6	232-140-5	N.D.	0.01%
35	Ammonium dichromate*	7789-09-5	232-143-1	N.D.	0.01%
36	Potassium dichromate*	7778-50-9	231-906-6	N.D.	0.01%
37	Cobalt(Ⅱ) sulphate*	10124-43-3	233-334-2	N.D.	0.01%
38	Cobalt(Ⅱ) dinitrate*	10141-05-6	233-402-1	N.D.	0.01%
39	Cobalt(Ⅱ) carbonate*	513-79-1	208-169-4	N.D.	0.01%
40	Cobalt(Ⅱ) diacetate*	71-48-7	200-755-8	N.D.	0.01%
41	2-Methoxyethanol	109-86-4	203-713-7	N.D.	0.005%
42	2-Ethoxyethanol	110-80-5	203-804-1	N.D.	0.005%
43	Chromium trioxide*	1333-82-0	215-607-8	N.D.	0.01%
44	①Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2	231-801-5 236-881-5	N.D.	0.01%
45	2-ethoxyethyl acetate	111-15-9	203-839-2	N.D.	0.01%
46	Strontium chromate*	7789-06-2	232-142-6	N.D.	0.01%
47	①1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	N.D.	0.01%
48	Hydrazine	7803-57-8 302-01-2	206-114-9	N.D.	0.01%
49	1-methyl-2-pyrrolidone	872-50-4	212-828-1	N.D.	0.01%
50	1,2,3-trichloropropane	96-18-4	202-486-1	N.D.	0.01%
51	①1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	N.D.	0.01%
52	Dichromium tris(chromate)*	24613-89-6	246-356-2	N.D.	0.01%

Test Report

No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit
53	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	234-329-8	N.D.	0.01%
54	Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	N.D.	0.01%
55	②Aluminosilicate Refractory Ceramic Fibres (RCF) **	-	-	N.D.	0.05%
56	②Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) **	-	-	N.D.	0.05%
57	①Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	N.D.	0.01%
58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	N.D.	0.005%
59	2-Methoxyaniline (o-Anisidine)	90-04-0	201-963-1	N.D.	0.005%
60	4-(1,1,3,3-tetramethylbutyl)phenol (4-tert-Octylphenol)	140-66-9	205-426-2	N.D.	0.005%
61	1,2-Dichloroethane	107-06-2	203-458-1	N.D.	0.005%
62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	N.D.	0.005%
63	Arsenic acid*	7778-39-4	231-901-9	N.D.	0.01%
64	Calcium arsenate*	7778-44-1	231-904-5	N.D.	0.01%
65	Trilead diarsenate*	3687-31-8	222-979-5	N.D.	0.01%
66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	N.D.	0.005%
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	N.D.	0.005%
68	Phenolphthalein	77-9-8	201-004-7	N.D.	0.005%
69	Lead diazide*	13424-46-9	236-542-1	N.D.	0.01%
70	Lead 2,4,6-trinitro-m-phenylene dioxide (Lead styphnate)*	15245-44-0	239-290-0	N.D.	0.01%
71	Lead dipicrate*	6477-64-1	229-335-2	N.D.	0.01%
72	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	203-977-3	N.D.	0.01%
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	N.D.	0.01%
74	③Diboron trioxide	1303-86-2	215-125-8	N.D.	0.01%
75	Formamide	75-12-7	200-842-0	N.D.	0.01%
76	Lead(II) bis methanesulfonate*	17570-76-2	401-750-5	N.D.	0.01%

Test Report

No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit
77	TGIC(1,3,5-tris(oxiranylmethyl)-1, 3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3	N.D.	0.01%
78	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6- (1H,3H,5H)-trione)	59653-74-6	423-400-0	N.D.	0.01%
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	202-027-5	N.D.	0.01%
80	N,N,N',N'-tetramethyl-4,4'-methylene dianiline (Michler's base)	101-61-1	202-959-2	N.D.	0.01%
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Violet 3)	548-62-9	208-953-6	N.D.	0.01%
82	[4-[[4-anilino-1-naphthyl] [4-(dimethylamino)phenyl] methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Blue 26)	2580-56-5	219-943-6	N.D.	0.01%
83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	N.D.	0.01%
84	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol	561-41-1	209-218-2	N.D.	0.01%
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	N.D.	0.05%
86	①4-Nonylphenol, branched and linear *[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]*	-	-	N.D.	0.05%
87	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	N.D.	0.05%

Test Report

No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit
88	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated *[covering well-defined substances and UVCB substances, polymers and homologues]*	-	-	N.D.	0.05%
89	Henicosafluoroundecanoic acid	2058-94-8	218-165-4	N.D.	0.05%
90	Pentacosafluorotridecanoic acid	72629-94-8	276-745-2	N.D.	0.05%
91	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	N.D.	0.05%
92	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	N.D.	0.05%
93	Heptacosafluorotetradecanoic acid	376-06-7	206-803-4	N.D.	0.05%
94	Diisopentylphthalate(DIPP)	605-50-5	210-088-4	N.D.	0.05%
95	①1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	N.D.	0.05%
96	N-pentyl-isopentylphthalate	776297-69-9	-	N.D.	0.05%
97	Methoxyacetic acid	625-45-6	210-894-6	N.D.	0.05%
98	Tricosafluorododecanoic acid	307-55-1	206-203-2	N.D.	0.05%
99	1,2-Diethoxyethane	629-14-1	211-076-1	N.D.	0.05%
100	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	N.D.	0.05%
101	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	N.D.	0.05%
102	N-methylacetamide	79-16-3	201-182-6	N.D.	0.05%
103	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	N.D.	0.01%
104	Biphenyl-4-ylamine	92-67-1	202-177-1	N.D.	0.05%

Test Report

No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit
105	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	N.D.	0.05%
106	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	N.D.	0.01%
107	Lead dinitrate*	10099-74-8	233-245-9	N.D.	0.01%
108	Tetralead trioxide sulphate*	12202-17-4	235-380-9	N.D.	0.01%
109	Lead monoxide (lead oxide)*	1317-36-8	215-267-0	N.D.	0.01%
110	Lead titanium trioxide*	12060-00-3	235-038-9	N.D.	0.01%
111	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	N.D.	0.05%
112	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	N.D.	0.01%
113	Dimethyl sulphate	77-78-1	201-058-1	N.D.	0.05%
114	Furan	110-00-9	203-727-3	N.D.	0.05%
115	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	N.D.	0.01%
116	Tetraethyllead*	78-00-2	201-075-4	N.D.	0.01%
117	[Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	N.D.	0.01%
118	Diethyl sulphate	64-67-5	200-589-6	N.D.	0.05%
119	Lead cyanamidate*	20837-86-9	244-073-9	N.D.	0.01%
120	Silicic acid ($H_2Si_2O_5$), barium salt (1:1), lead-doped*	68784-75-8	272-271-5	N.D.	0.01%
121	Trilead dioxide phosphonate*	12141-20-7	235-252-2	N.D.	0.01%
122	*o*-Toluidine	95-53-4	202-429-0	N.D.	0.05%
123	*o*-aminoazotoluene	97-56-3	202-591-2	N.D.	0.05%
124	4-aminoazobenzene	60-09-3	200-453-6	N.D.	0.05%
125	6-methoxy-*m*-toluidine (*p*-cresidine)	120-71-8	204-419-1	N.D.	0.05%
126	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	N.D.	0.05%
127	Lead titanium zirconium oxide*	12626-81-2	235-727-4	N.D.	0.01%
128	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	N.D.	0.05%
129	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	N.D.	0.05%
130	Trilead bis(carbonate)dihydroxide*	1319-46-6	215-290-6	N.D.	0.01%
131	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	N.D.	0.01%
132	Orange lead (lead tetroxide)*	1314-41-6	215-235-6	N.D.	0.01%
133	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	N.D.	0.01%
134	4,4'-oxydianiline and its salts	101-80-4	202-977-0	N.D.	0.05%
135	Lead oxide sulfate*	12036-76-9	234-853-7	N.D.	0.01%
136	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	N.D.	0.01%
137	Silicic acid, lead salt*	11120-22-2	234-363-3	N.D.	0.01%
138	N,N-dimethylformamide	68-12-2	200-679-5	N.D.	0.05%

Test Report

No.	Substance Name(s)	CAS No.	EC No.	Concentration (%)	Report Limit
139	Cadmium	7440-43-9	231-152-8	N.D.	0.01%
140	Cadmium oxide*	1306-19-0	215-146-2	N.D.	0.01%
141	Dipentyl phthalate (DPP)	131-18-0	205-017-9	N.D.	0.01%
142	①4-Nonylphenol, branched and linear, ethoxylated*[substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]*	-	-	N.D.	0.05%
143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	N.D.	0.01%
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	N.D.	0.01%
145	① Trixylyl phosphate	25155-23-1	246-677-8	N.D.	0.01%
146	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	217-710-3	N.D.	0.01%
147	Dihexyl phthalate	84-75-3	201-559-5	N.D.	0.01%
148	Cadmium sulphide*	1306-23-6	215-147-8	N.D.	0.01%
149	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	N.D.	0.01%
150	Lead di(acetate)*	301-04-2	206-104-4	N.D.	0.01%
151	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	202-506-9	N.D.	0.01%

Test Report

Test Method:

Refer to US EPA3052:1996, US EPA 3050B:1996, US EPA3060A:1996, US EPA 3550C:2007, US EPA 3540C:1996, ISO 17353:2004(E), BS EN 14582:2007 for sample pretreatment.
Analyzed by ICP-OES, SEM-EDS, UV-Vis, IC, HPLC, GC-MS, Headspace-GCMS and LC-MS-MS.

Tested Sample/Part Description Mixed test, brown plastic wire jacket, metal wire with silvery plating and white plastic wire jacket

Note:

1. w/w = weight by weight; 0.1% = 1000 mg/kg =1000 ppm
2. N.D. = Not Detected (<report limit)
3. *: Concentration value of the substance by the conversion from the test results of certain elements. Concentration value of Bis(tributyltin)oxide by the conversion from the test results of Tributyl Tins.
4. **: All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation (Regulation (EC) No 1272/2008).
5. ***: C.I.: Colour Index
6. ****: Light fractions from distillation
7. *****: Concentration value of Disodium tetraborate, anhydrous and Tetraboron disodium heptaoxide, hydrate is evaluated by Disodium tetraborate, with no consider of the hydrate.
8. ①: In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.
9. ②: In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of the representative compounds are calculated based on the result of specified heavy metal elements.
10. ③: Concentration value of Boric acid; Disodium tetraborate, anhydrous; Tetraboron disodium heptaoxide, hydrate; Diboron trioxide are calculated by the conversion from the test results of certain elements and confirmed by appropriate solvent extraction, meanwhile the book of materials is suggested to be checked for further confirmation.

Remark:

As specified by client, the test was conducted by mixing several samples together. The result(s) shown on this report may be different from the content of any homogeneous material.

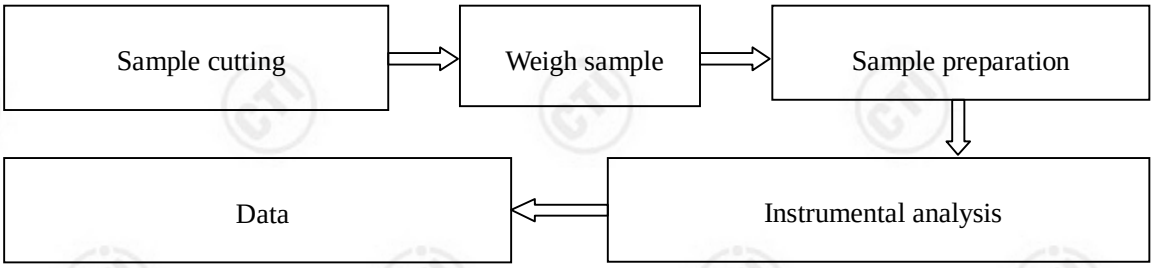
Test Report

Appendix:

1. Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
   1）Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.
   2）On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.
2. The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 3 and Annex II of REACH.
3. The supplier of a mixture that containing a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.
   1) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.
   2) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures or ≥ 0.2 % by volume for gaseous mixtures.

Test Report

Test Process



Photo(s) of the sample(s)

*** End of Report ***

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

Test Report

SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO.,LTD.

WOER MANSION,LANJING NORTH ROAD,PINGSHAN INDUSTRIAL ZONE,LONGGANG DISTRICT,SHENZHEN
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Pls see remark

SGS Job No. :	CP14-000655 - SZ
Date of Sample Received :	07 Jan 2014
Testing Period :	07 Jan 2014 - 13 Jan 2014
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 :	Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of
SGS-CSTC Ltd.

Yan

Yan Lee
Approved Signatory

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SGS-CSTC Standards Technical Services Co., Ltd.
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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN14-002712.001	Black tube w/ white printing

Remarks :

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

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method : (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
(2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
(3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
(4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
(5)With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	Limit	Unit	MDL	*001*
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND

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SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Test Center Chemical Laboratory.

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Test Item(s)	Limit	Unit	MDL	001
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND

Notes :

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.

Halogen

Test Method : With reference to EN 14582: 2007, analysis was performed by Ion Chromatograph (IC).

Test Item(s)	Unit	MDL	001
Fluorine (F)	mg/kg	50	77
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

Hexabromocyclododecane (HBCDD)

Test Method : Determination of HBCDD by GC-MS based on IEC 62321:2008.

Test Item(s)	Unit	MDL	001
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Notes :

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Hexabromocyclododecane (HBCDD) is considered as a priority for risk evaluation and substance restriction.

Phthalate

Test Method : Determination of phthalates by GC-MS based on EN 14372:2004.

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Test Item(s)	CAS NO.	Unit	MDL	*001*
Dibutyl Phthalate (DBP)	84-74-2	%(W/W)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(W/W)	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(W/W)	0.003	ND

Notes :

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC:
Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.

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Sample Name:

RSFR-H HEAT SHRINKABLE TUBINGS (E203950 ㊀ WOER RSFR-H TUBE 125℃ VW-1 H)

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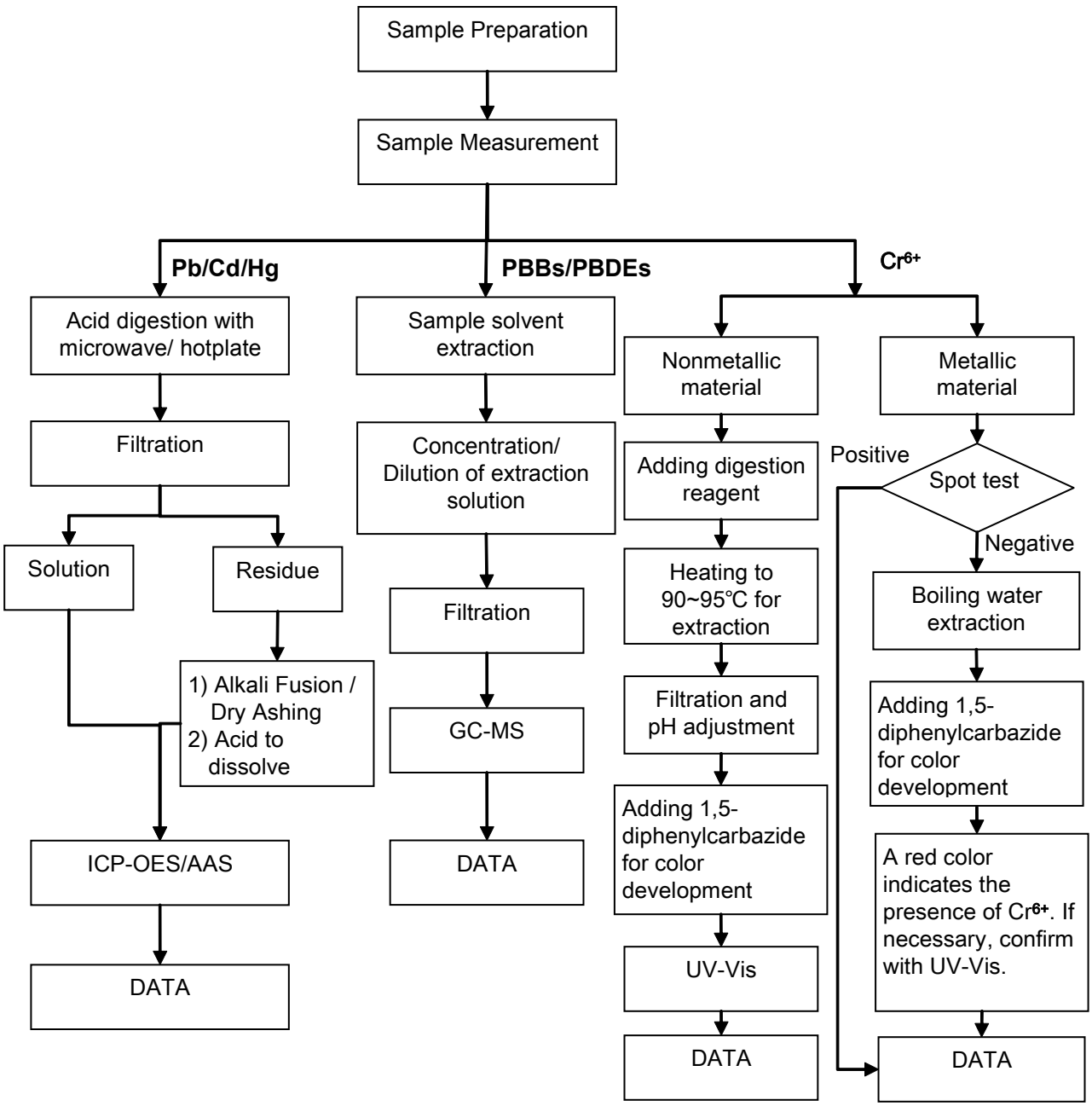
RoHS Testing Flow Chart

1) Name of the person who made testing: Michael Tso / Cutey Yu
2) Name of the person in charge of testing: Adams Yu / Yolanda Wei
3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr^{6+} and PBBs/PBDEs test method excluded).



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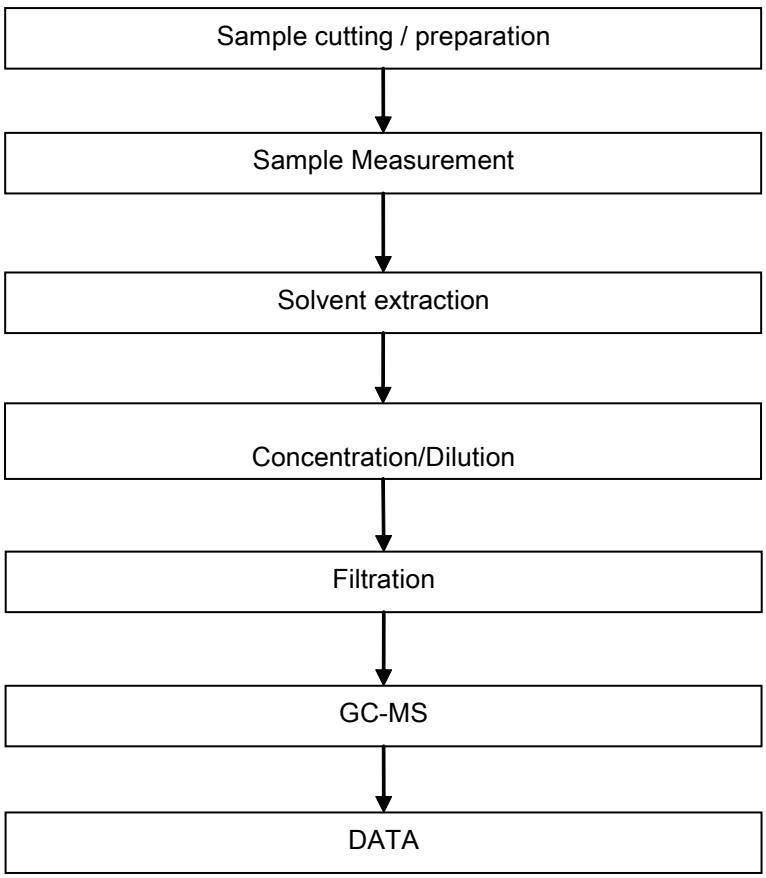
HBCDD Testing Flow Chart

1) Name of the person who made testing: Cutey Yu
2) Name of the person in charge of testing: Yolanda Wei



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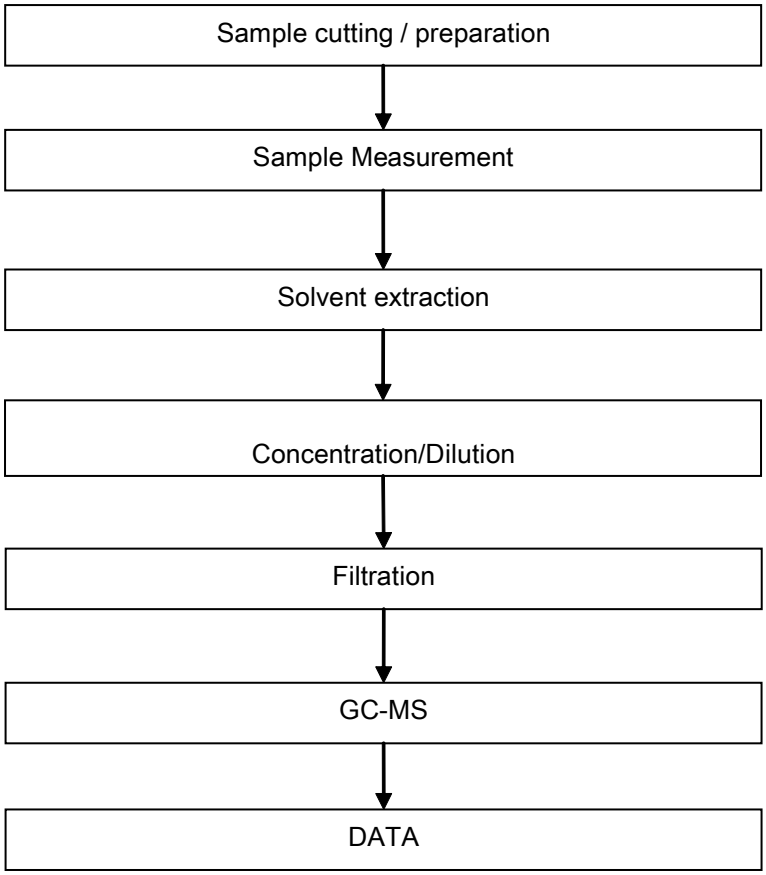
Phthalates Testing Flow Chart

1) Name of the person who made testing: Liu Qiong
2) Name of the person in charge of testing: Yolanda Wei



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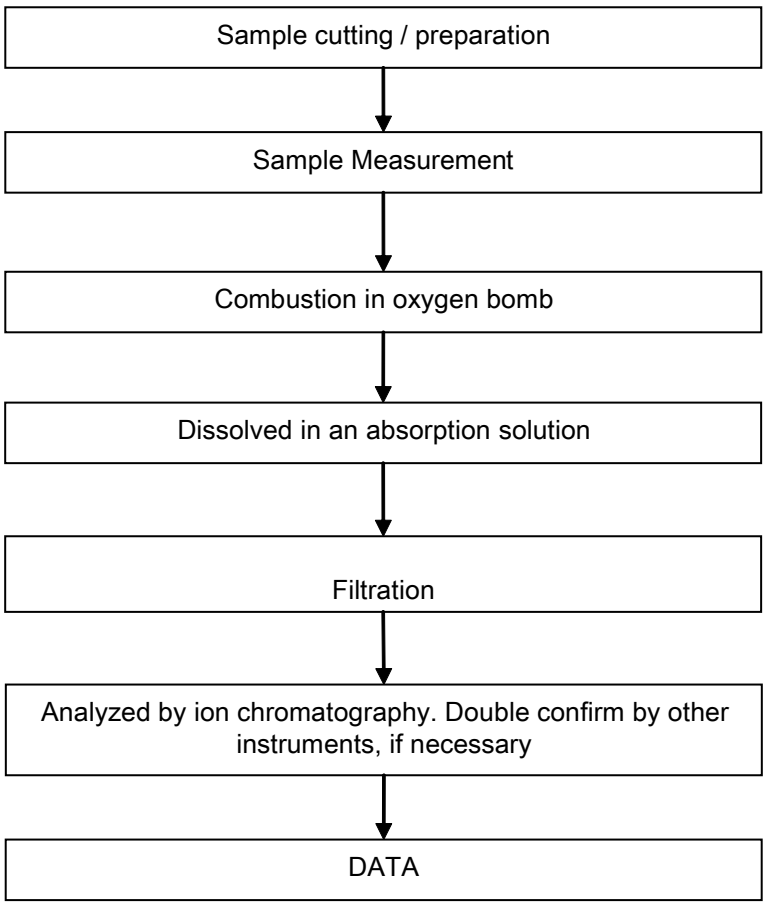
Halogen Testing Flow Chart

1) Name of the person who made testing: Bella Wang
2) Name of the person in charge of testing: Adams Yu



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SHANDONG HUAXIA SHENZHOU NEW MATERIAL CO.,LTD

TANGSHAN TOWN,HUANTAI COUNTRY, ZIBO CITY, SHANDONG PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : PERFLUORINATED ETHYLENE-PROPYLENE COPOLYMER

SGS Job No. :	SP14-001537 - SH
Client Ref. Information :	DS610, DS618, DS600, DS608, DS602, DS601
Composition :	PERFLUORINATED ETHYLENE-PROPYLENE COPOLYMER
Date of Sample Received :	21 Jan 2014
Testing Period :	21 Jan 2014 - 26 Jan 2014
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 :	Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of
SGS-CSTC Ltd.

JJ Fan
Approved Signatory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA14-012357.001	Translucent solid pellet

Remarks :

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method : (1) With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.
(2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.
(3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.
(4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric Method using UV-Vis.
(5) With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	Limit	Unit	MDL	*001*
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	2	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND

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Test Item(s)	Limit	Unit	MDL	001
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND

Notes :

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II

Halogen

Test Method : With reference to EN 14582: 2007, analysis was performed by Ion Chromatograph (IC).

Test Item(s)	Unit	MDL	001
Fluorine (F)	mg/kg	50	>100000
Chlorine (Cl)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

Phthalates

Test Method : Determination of phthalates by GC-MS based on EN 14372:2004.

Test Item(s)	CAS NO.	Unit	MDL	001
Dibutyl Phthalate (DBP)	84-74-2	%	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%	0.003	ND

Notes :

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC:
Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.

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Hexabromocyclododecane (HBCDD)

Test Method : Determination of HBCDD by GC-MS based on IEC 62321:2008.

Test Item(s)	Unit	MDL	*001*
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Notes :

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Hexabromocyclododecane (HBCDD) is considered as a priority for risk evaluation and substance restriction.

PFOS (Perfluorooctane Sulfonates) and PFOA (Perfluorooctanoic Acid)

Test Method : With reference to US EPA 3550C: 2007, analysis was performed by HPLC-MS.

Test Item(s)	Limit	Unit	MDL	001
Perfluorooctane Sulfonates (PFOS) and related Acid,Metal Salt and Amide	1000	mg/kg	10	ND
Perfluorooctanoic Acid (PFOA)	-	mg/kg	10	ND

Notes :

Max. limit specified by commission regulation (EU) No. 757/2010 amending regulation (EC) No 850/2004.

Polycyclic aromatic hydrocarbons (PAH)

Test Method : With reference to ZEK 01.4-08 of German ZLS and its amendments, analysis was performed by GC-MS.

Test Item(s)	Unit	MDL	001
Sum of 18 PAH	mg/kg	-	ND
Naphthalene(NAP)	mg/kg	0.2	ND
Acenaphthylene(ANY)	mg/kg	0.2	ND
Acenaphthene(ANA)	mg/kg	0.2	ND
Fluorene(FLU)	mg/kg	0.2	ND
Phenanthrene(PHE)	mg/kg	0.2	ND
Anthracene(ANT)	mg/kg	0.2	ND
Fluoranthene(FLT)	mg/kg	0.2	ND
Pyrene(PYR)	mg/kg	0.2	ND

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Test Item(s)	Unit	MDL	001
Benzo(a)anthracene(BaA)	mg/kg	0.2	ND
Chrysene(CHR)	mg/kg	0.2	ND
Benzo(b)fluoranthene(BbF) and Benzo(j)fluoranthene(BjF)	mg/kg	0.4	ND
Benzo(k)fluoranthene(BkF)	mg/kg	0.2	ND
Benzo(a)pyrene(BaP)	mg/kg	0.2	ND
Benzo(e)pyrene(BeP)	mg/kg	0.2	ND
Indeno(1,2,3-c,d)pyrene(IPY)	mg/kg	0.2	ND
Dibenzo(a,h)anthracene(DBA)	mg/kg	0.2	ND
Benzo(g,h,i)perylene(BPE)	mg/kg	0.2	ND

ZEK 01.4-08: Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3
	Material indented to be put in the mouth or material for toys with normal skin contact for children aged <36 months	Materials those are not included in Category 1, with predictable contact with the skin longer than 30 s. (long-term skin contact).	Materials those are not included in Category 1 or 2, with predictable skin contact up to 30 s (short-term skin contact).
Benzo(a)pyrene (mg/kg)	<0.2**	1	20
Sum of 18 PAH (mg/kg)*	<0.2**	10	200

Notes:

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

** = 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 is indented to be put in the mouth by additional specific migration tests of PAH components based on DIN EN 1186ff/EN13130 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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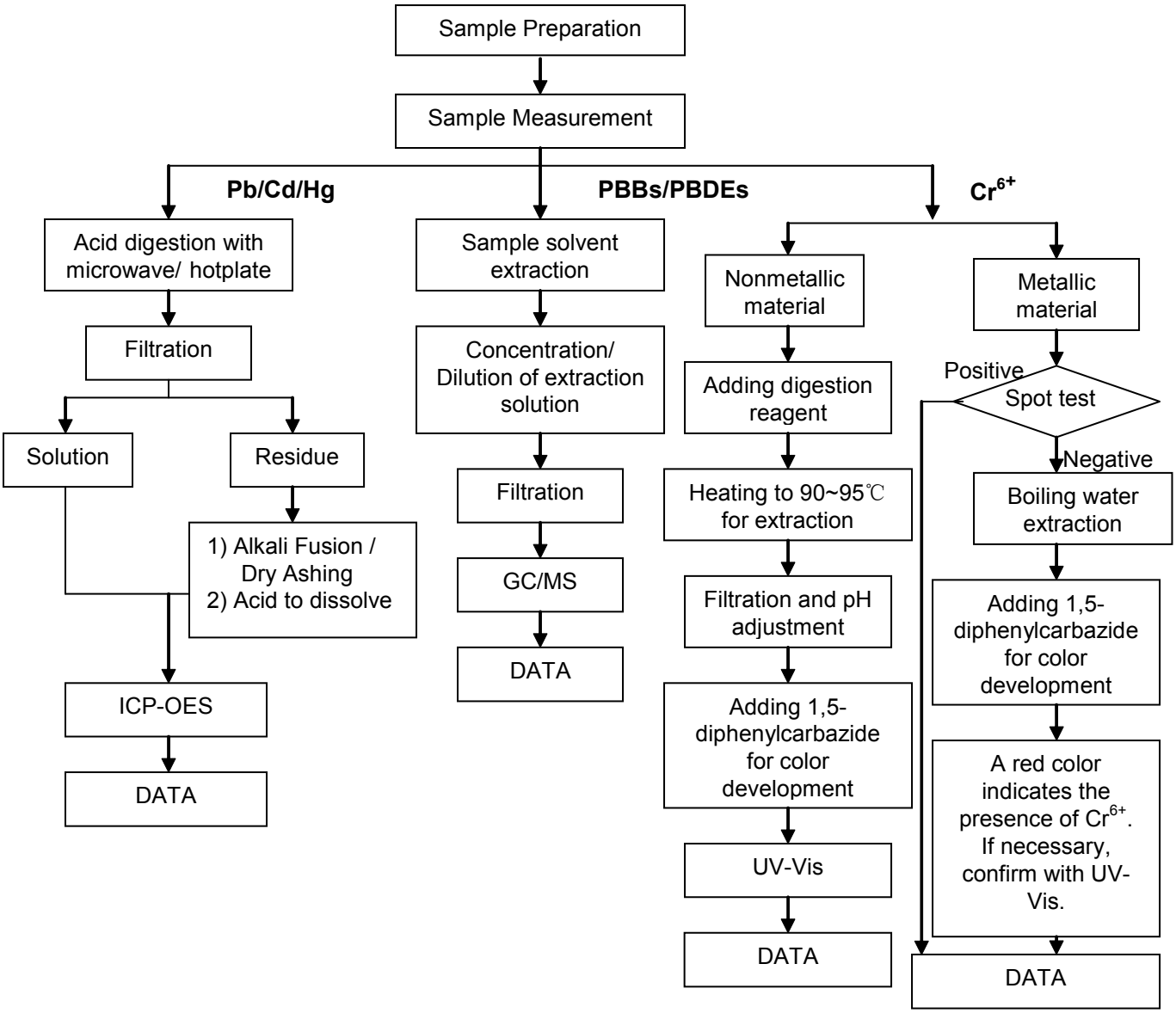
ATTACHMENTS

RoHS Testing Flow Chart

1) Name of the person who made testing: Jan Shi/Star Wang/Shara Wang/Gary Xu
2) Name of the person in charge of testing: Jeff Zhang/George Xu/ Jessy Huang
3) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} and PBBs/PBDEs test method excluded)



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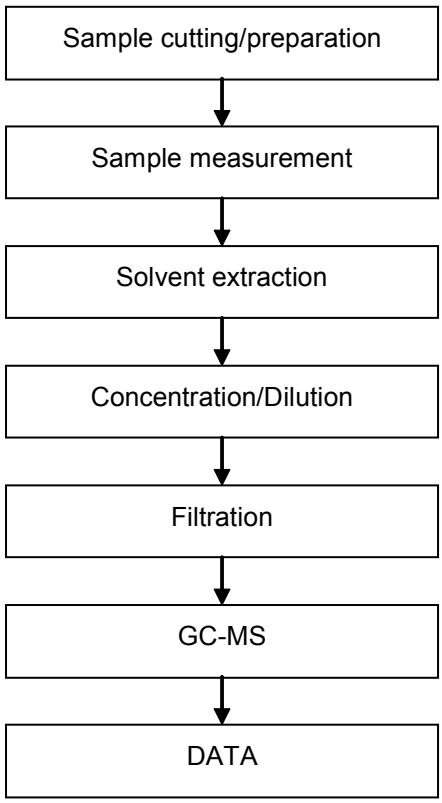
Phthalates Testing Flow Chart

1) Name of the person who made testing: Elyn Yao
2) Name of the person in charge of testing: Myra Ma



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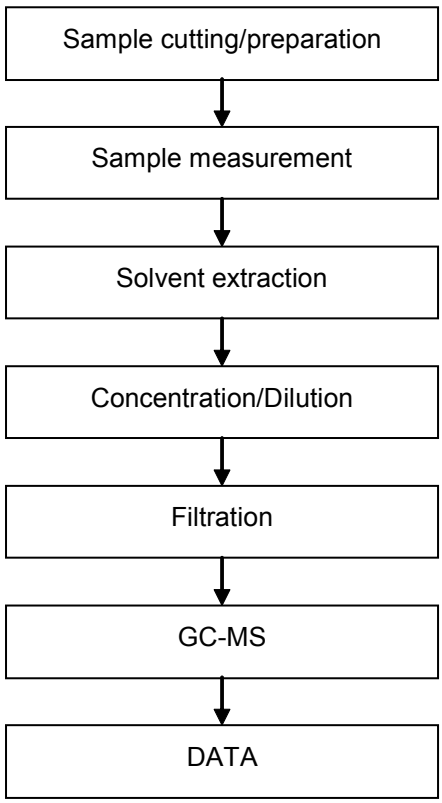
HBCDD Testing Flow Chart

1) Name of the person who made testing: Gary Xu
2) Name of the person in charge of testing: Jessy Huang



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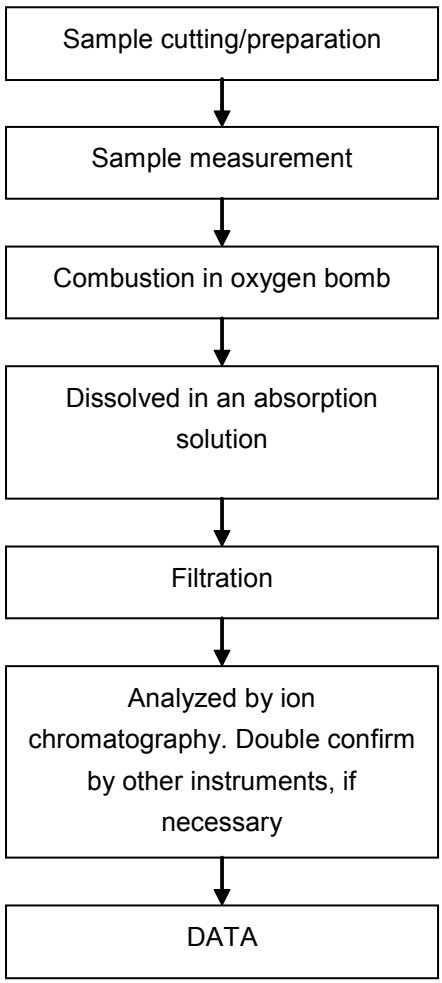
Halogen Testing (oxygen bomb) Flow Chart

1) Name of the person who made testing: Sisily Yin
2) Name of the person in charge of testing: Linda Li



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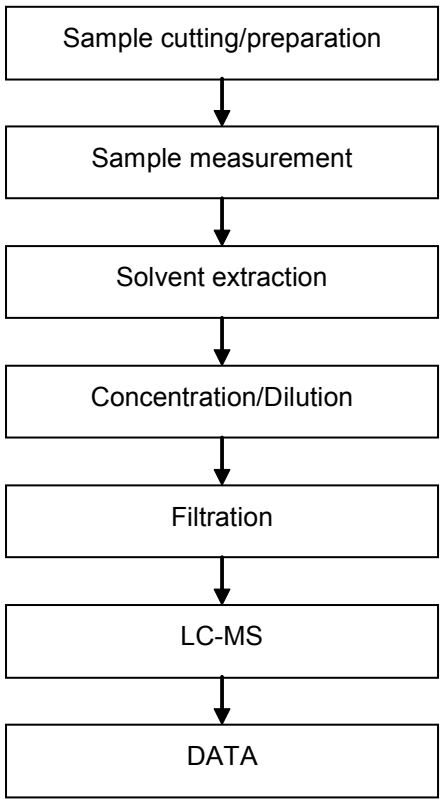
PFOS/PFOA Testing Flow Chart

1) Name of the person who made testing: Mary Yang
2) Name of the person in charge of testing: Judy Li



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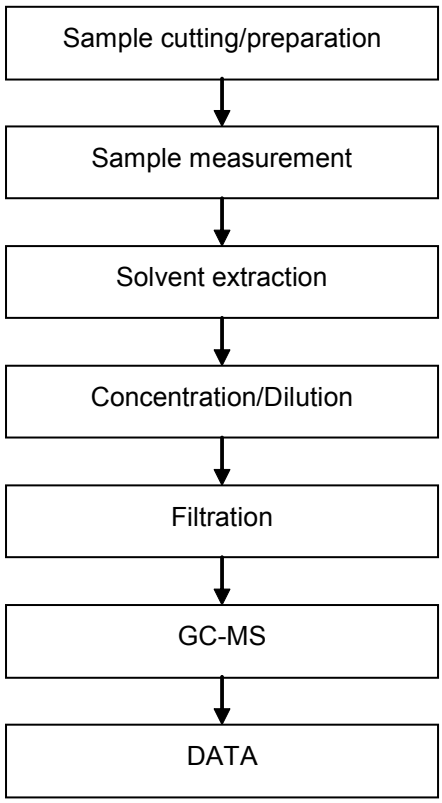
PAH Testing Flow Chart

1) Name of the person who made testing: Lisa Duan
2) Name of the person in charge of testing: Jessy Huang



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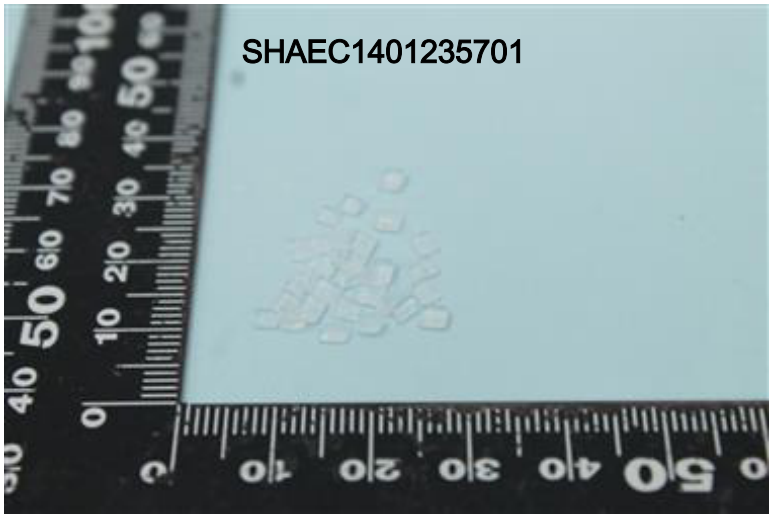

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