承 認 書

客戶名稱	鈺緯科技	品名規格	
客戶料號	3KH00121000	穩德料號	
使用機型		公差范圍	
認可日期		材料種類	

客戶簽認			
		品保部 2019.09.24 發行 鈺緯科技開發股份有限公司	
品質核准	品質確認	工程核准	工程確認

廠商簽認		
核　准	核　對	經　辦
陳熙偉		葉文麗

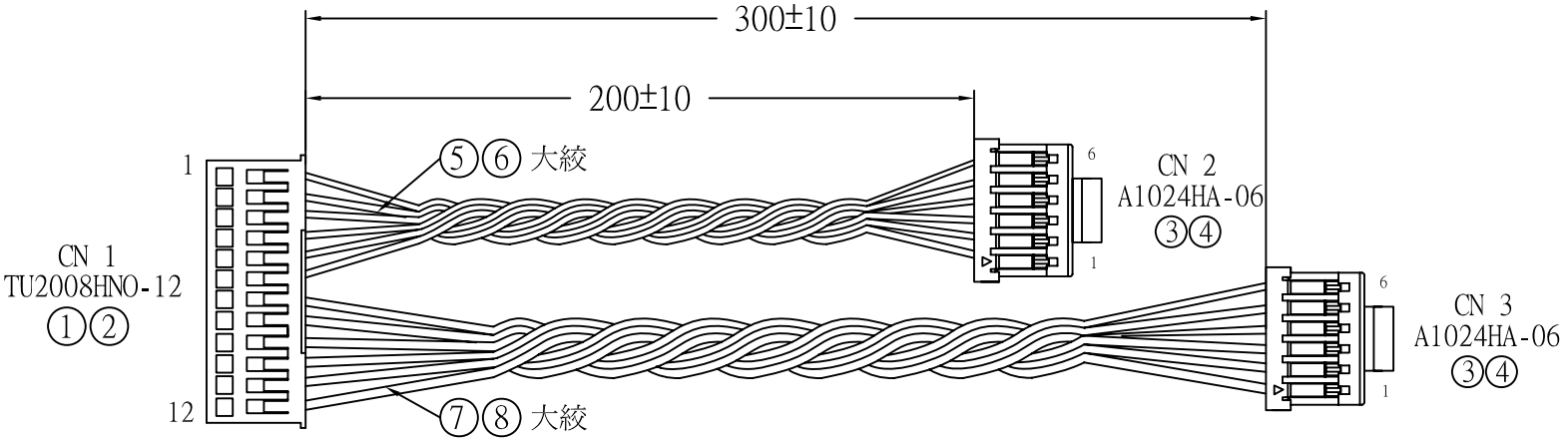
東莞穩德電子有限公司

地址：廣東省東莞市虎門鎮新聯高科技工業區

TEL:(0769)85509740(代表號)　　FAX:(0769)85504618

http://www.wentek.com.tw　　E-mail:dyg@dgwender.com.cn

成品圖:



備註：

1、裁線長度：2.5 x 221 x 1.4
2、裁線長度：2.5 x 326 x 1.4
3、測試條件:
>測試電壓:300 V.DC.
>導通阻抗:0.5Ω(MAX).
>絕緣阻抗:20MΩ(MIN).

	CN 1	COLOR	CN 2	CN 3
大絞	1	黑	1	
	2	黑	2	
	3	紅	3	
	4	紅	4	
	5	黑	5	
	6	黑	6	
大絞	7	黑		1
	8	黑		2
	9	紅		3
	10	紅		4
	11	黑		5
	12	黑		6

品保部
2019.09.24
發行
鈺緯科技開發股份有限公司

NO.	規格說明	單位	單用量	備注
8	UL1571#28 OD：0.8 紅 L=326	PCS	2	智清
7	UL1571#28 OD：0.8 黑 L=326	PCS	4	智清
6	UL1571#28 OD：0.8 紅 L=221	PCS	2	智清
5	UL1571#28 OD：0.8 黑 L=221	PCS	4	智清
4	HSG:A1024HA-06	PCS	2	HR
3	TER:A1024-TPE	PCS	12	HR
2	HSG:TU2008HNO-12P	PCS	1	TYU
1	TER:TU2008TPO-A	PCS	12	TYU

項次	日期	變更記錄	確認

檢查規范			
核准	复核	確認	繪圖

版次	第三角法	客戶名稱	鈺緯科技
	單位：mm	品名	DIVA2018092702
A	比例：	料號	3KH00121000
	2019年08月14日	繪圖編號	

WEN DE ELECTRONICS CO.,LTD.

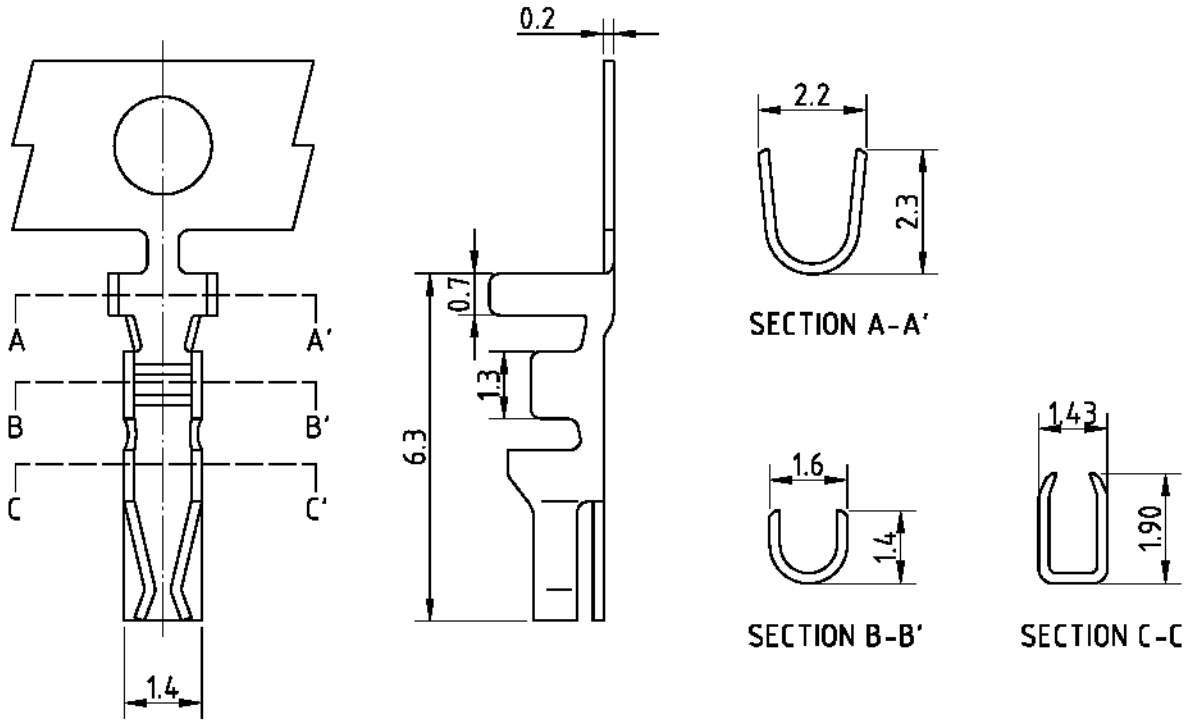
Q-008B

2.0mm Pitch Wire To Board Connector

Terminal

Features

Use with : TU2008 Series Housing



CONTACT INFORMATION

Part No	Wire Range	Insulation O.D.	Material	Finish	Qty/reel
TU2008TPO-A	AWG #22-#28	1.50mm(MAX.)	Phosphor bronze	Tin-plated	10,000 pcs

Housing

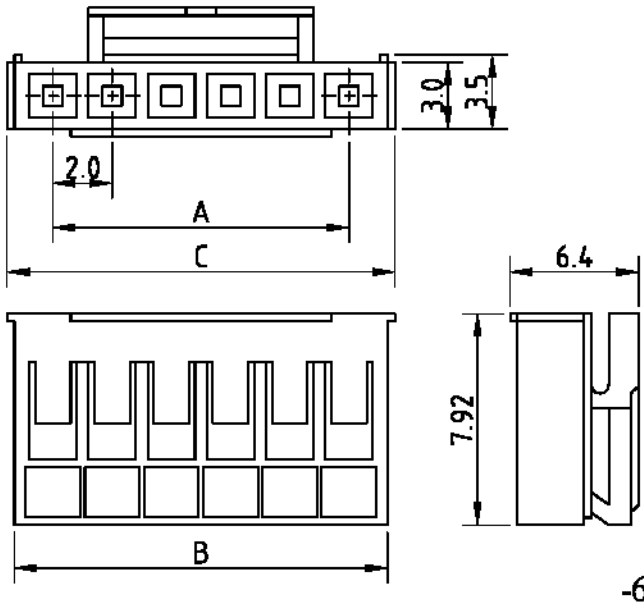
Features

Available Number of Circuits : 3 - 13

Material : Nylon 66 UL94V-0

Use with : TU2008 Crimp Terminal

Mates with : TU2008 Series Wafer



Dimensional and Order Information

Poles	Part No	DIM:(mm)		
		A	B	C
3	TU2008HNO-03	4.00	6.60	7.60
4	TU2008HNO-04	6.00	8.60	9.60
5	TU2008HNO-05	8.00	10.60	11.60
6	TU2008HNO-06	10.00	12.60	13.60
7	TU2008HNO-07	12.00	14.60	15.60
8	TU2008HNO-08	14.00	16.60	17.60
9	TU2008HNO-09	16.00	18.60	19.60
10	TU2008HNO-10	18.00	20.60	21.60
11	TU2008HNO-11	20.00	22.60	23.60
12	TU2008HNO-12	22.00	24.60	25.60
13	TU2008HNO-13	24.00	26.60	27.60

ONLINE CERTIFICATIONS DIRECTORY

ECBT2.E191023
Connectors for Use in Data, Signal, Control and Power Applications - Component

Page Bottom

Connectors for Use in Data, Signal, Control and Power Applications - Component

See General Information for Connectors for Use in Data, Signal, Control and Power Applications - Component

TARNG YU ENTERPRISE CO LTD E191023
43 WU-CHUN 6TH RD
WU-KU INDUSTRIAL PARK
NEW TAIPEI, 248 TAIWAN

Connectors, Model(s) TB1262HNO, followed by 1X, followed by 2 through 15 or 02 through 09, may be followed by 1 through 15 alphanumeric code

TB1561HNV and TB1561HNR, followed by 02 through 13, may be followed by P, may be followed by 1 through 15 alphanumeric code

TB2061, followed by HNV, followed by 2 through 16 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TB2061HNR, followed by 2 through 16 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TB3061, followed by HNR, followed by 2 through 16 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TB3061, followed by HNV, followed by 2 through 16 or 02 through 09, may be followed by P, C or PC, may be followed by 1 through 15 alphanumeric code

TB6061, followed by HNO, followed by 2 through 15 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TF2542HNO, followed by 1X, followed by 2 through 15 or 02 through 09, may be followed by 1 through 15 alphanumeric code

TL2460WNR, followed by -01 thru -03, may be followed by 2 or 5, may be followed by 1, 2, 3 or blank, may be followed by 1 through 10 alphanumeric codes or blank, may be followed by 0, may be followed by R or blank, may be followed by 1 through 30 alphanumeric codes.

TL2460WNR, followed by -01 thru -03, may be followed by 2 or 5, may be followed by 1, 2, 3 or blank, may be followed by 1 through 10 alphanumeric codes or blank, may be followed by 4, 8 or 9, may be followed by R or blank, may be followed by 1 through 30 alphanumeric codes.

TL2460WNR, followed by -01 thru -03, may be followed by S or blank, may be followed by D, may be followed by R, may be followed by A, B, C or blank, may be followed by 1 through 10 alphanumeric codes or blank, may be followed by M7, M10 or blank, may be followed by 1 through 30 alphanumeric codes.

TL2460WNR, followed by -01 thru -03, may be followed by S or blank, may be followed by R, may be followed by A, B, C or blank, may be followed by 1 through 10 alphanumeric codes or blank, may be followed by 1 through 30 alphanumeric codes.

TL4060WNR, followed by -01 thru -03, may be followed by 5, may be followed by 0 thru 3, may be followed by 1 through 10 alphanumeric codes or blank, may be followed by 0, may be followed by R or blank, may be followed by 1 through 30 alphanumeric codes or blank.

TL4060WNR, followed by -01 thru -03, may be followed by 5, may be followed by 0 thru 3, may be followed by 1 through 10 alphanumeric codes or blank, may be followed by 1 or 2, may be followed by R or blank, may be followed by 1 through 30 alphanumeric codes or blank.

TL4060WNR, followed by -01S thru -03S, may be followed by H or R, may be followed by A, B, C or blank, may be followed by 1 through 10 alphanumeric codes or blank, may be followed by M7 or M10, may be followed by 1 through 30 alphanumeric codes or blank.

TL4060WNR, followed by -01S thru -03S, may be followed by R or blank, may be followed by A, B, C or blank, may be followed by 1 through 30 alphanumeric codes or blank.

TP0501WNV followed by 20, 40 or 50, followed by F or M, may be followed by 1 through 15 alphanumeric code

TP1001WNV-41 followed by F or M, may be followed by 1 through 15 alphanumeric code

TP4522, followed by BE, R or S, followed by 3 through 12 or 03 through 09, may be followed by 1 through 15 alphanumeric code

TP6932, followed by BE, R or S, followed by 2 through 16 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU or TF, followed by 5012HNO, followed by 2 through 28 or 02 through 09, may be followed by P, followed by L, N or Y, followed by T or E, followed by 2, 4, 6 or 8, followed by A or AE or GO, followed by two alphanumerical digits, may be followed by 1 through 15 alphanumeric code

TU or TF, followed by 6012HNO, followed by 2 through 25 or 02 through 09, may be followed by P, followed by L, N or Y, followed by T or E,

followed by 0, 2, 4, 6 or 8, followed by A or AE or GO, followed by two alphanumerical digits, may be followed by 1 through 15 alphanumeric code

TU1001HNO, followed by 1X, followed by 02 through 15 or 20, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU1001HNO, followed by 2X, followed by 10, 15, 20 or 25, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU1001WNV and TU1001WNR, followed by 1X, followed by 02 through 15 or 20, may be followed by PS or S, may be followed by 1 through 15 alphanumeric code

TU1001WNV, followed by 2X10, 2X15, 2X20 or 2X25, may be followed by PS, S, SB or PSB, may be followed by 1 through 15 alphanumeric code

TU1003HNO, followed by 1X14, 1X20, 1X30 14, 20 or 30, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU1003WNR, followed by 1X14, 1X20 or 1X30, 14, 20 or 30, may be followed by PS, S, SI or PSI, may be followed by 1 through 15 alphanumeric code

TU1007HNO, followed by 08, 14, 20 or 30, may be followed by P, B or PB, may be followed by 1 through 15 alphanumeric code

TU1007WNR, followed by 08, 14, 20 or 30, may be followed by P, followed by SB or SIB, may be followed by 1 through 15 alphanumeric code

TU1212HNO, followed by 2 through 30 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU1212WBR, followed by 2 through 30 or 02 through 09, may be followed by PS or S, may be followed by 1 through 15 alphanumeric code

TU1213HNO followed by 2 through 10, 15, 20, 25, 30, 31 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU1213WNR and TU1213WNV followed by 21 or 31, followed by PSBD or SBD, may be followed by 1 through 15 alphanumeric code

TU1213WNR and TU1213WNV followed by 5, 7, 9, 05, 07, 09, 11, 13, 15, 17, 19, 21 or 31, followed by PSD or SD , may be followed by 1 through 15 alphanumeric code

TU1213WNR followed by 2 through 10, 15, 20, 25, 30, 31 or 02 through 09, may be followed by PS or S, may be followed by 1 through 15 alphanumeric code

TU1213WNR followed by 20 or 30, may be followed by PSB, SB, SIB or PSIB, may be followed by 1 through 15 alphanumeric code

TU1217HNO, followed by 2 through 10, 12, 20, 25, 30 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU1252, followed by HNO, followed by 2 through 15 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU1252, followed by WNR or WNV, followed by 2 through 15 or 02 through 09, may be followed by P or PS or S, may be followed by 1 through 15 alphanumeric code

TU1253, followed by H, HNO, WNR or WNV, followed by 2 through 15 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU1257, followed by HNO, may be followed by 2, 1X or 2X, followed by 2 through 15 or 20 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU1257, followed by WNR or WNV, may be followed by 1 or 1X followed by 2 through 15 or 20 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU1257, followed by WNV, followed by 2 or 2X, followed by 5through 15 or 20 or 05 through 09, may be followed by PS or S, may be followed by 1 through 15 alphanumeric code

TU1501, followed by HNO, WNR or WNV, followed by 2 through 13 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU1501WNR and TU1501WNV, followed by 02 thru 13, may be followed by PS or S, may be followed by 1 through 15 alphanumeric code

TU1502HNO and TU1502WNR, followed by 02 or 03, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU1513HNO followed by 02 thru 10, followed by blank, "/", "." or 1 through 5 alphanumeric code in parentheses or not.

TU1513WNV followed by 02 thru 10, followed by S, followed by blank, "/", "." or 1 through 5 alphanumeric code in parentheses or not.

TU2001, followed by HNO, WNR or WNV, followed by 2 through 16 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU2001WNR and TU2001WNV, followed by 02 thru 16, may be followed by PS or S, may be followed by 1 through 15 alphanumeric code

TU2002, followed by HNO, WNR or WNV, followed by 2 through 15 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU2003, followed by HNO, may be followed by 1, 1X, 2 or 2X followed by 2 through 40, or 02 through 09, may be followed by P , may be followed by 1 through 15 alphanumeric code..

TU2003, followed by HNO, may be followed by 2 or 2X, followed by 4 through 40 or 04 through 09, may be followed by PR or R, may be followed by 1 through 15 alphanumeric code.

TU2003, followed by WNR, WNV, WBR or WBV, may be followed by 1, 1X, 2 or 2X, followed by 2 through 40 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code.

TU2004, followed by HNO, WNR or WNV, followed by 2 through 15 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU2005, followed by HNO, WNR or WNV, followed by 2X, followed by 3 through 16 or 03 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU2005HNO, TU2005WNV and TU2005WNR, followed by 2X02 thru 2X15, may be followed by PK or K, may be followed by 1 through 15 alphanumeric code

TU2006, followed by HNO or WNR, followed by 2 through 15 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU2006, followed by WNV, followed by 2 through 15 or 02 through 09, may be followed by P or PF or F, may be followed by 1 through 15 alphanumeric code

TU2007HNO, TU2007WNV and TU2007WNR, followed by 2X, followed by 2 through 16 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU2008HNO, TU2008WNV and TU2008WNR, followed by 02 thru 15, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU2013HNO followed by 02 thru 12, followed by blank, "/", "." or 1 through 5 alphanumeric code in parentheses or not.

TU2013WNR followed by 02 thru 12, followed by S, followed by blank, "/", "." or 1 through 5 alphanumeric code in parentheses or not.

TU3001, followed by HNO, WNR or WNV, followed by 2 through 15 or 20, or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU3002, followed by HNO, WNR or WNV, followed by 2 through 16 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU3003, followed by HNO, WNR or WNV, followed by 2 through 15 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU3004, followed by HNO, WNR or WNV, followed by 2 through 20 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU3005, followed by HNO, WNR or WNV, followed by 2 through 13 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU3006, followed by HNO, WNR or WNV, followed by 2 through 20 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU3007, followed by HNO, WNR or WNV, followed by 2 through 15 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU3008, followed by HNO, WNR or WNV, followed by 2 through 25 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU3009HNO and TU3009WNV, followed by 02 thru 15, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU3501HNO-02, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU3501WNR-02, may be followed by PS or S, may be followed by 1 through 15 alphanumeric code

TU4001, followed by HNO, followed by 2 through 5 or 02 through 05, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU4001, followed by WNR, followed by 2 through 5 or 02 through 05, may be followed by P, PS or S, maybe followed by 04, 08 or 12, may be followed by 1 through 15 alphanumeric code

TU5002, followed by HNO, followed by 2 through 20 or 02 through 09, may be followed by P, C or PC, may be followed by 1 through 15 alphanumeric code

TU5002, followed by WNR or WNV, followed by 2 through 20 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU5003, followed by HNO, followed by 2 through 12 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU5004, followed by HNO, followed by 2 through 6 or 02 through 06, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU5004, followed by WNR or WNV, followed by 2 through 12 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU5005, followed by HNO, followed by 2 or 2X, followed by 2 through 40 or 02 through 09, may be followed by P or PR or R, may be followed by 1 through 15 alphanumeric code

TU5005, followed by HNO, may be followed by 1 or 1X, followed by 2 through 40 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU5005, followed by HNO, may be followed by 1 or 1X, followed by 4 or 04, followed by PK or K, may be followed by 1 through 15 alphanumeric code

TU5005, followed by WNR, WNV, WBR or WBV, may be followed by 1, 1X 2 or 2X, followed by 2 through 40 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU5006, followed by HNO, may be followed by 1 or 1X, followed by 2 through 25 or 02 through 09, may be followed by P, PF, F, K or PK, may be followed by 1 through 15 alphanumeric code

TU5006, followed by WNR or WNV, may be followed by 1 or 1X, followed by 2 through 25 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU6001, followed by HNO, WNR or WNV, followed by 2 through 12 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU6002, followed by HNO, followed by 2 through 16 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU6002, followed by WNR or WNV, followed by 2 through 16 or 02 through 09, may be followed by P, C or PC, may be followed by 1 through 15 alphanumeric code

TU6003HNO, followed by 06, followed by K, followed by 1 through 9 or 01 through 09, may be followed by 1 through 15 alphanumeric code

TU6003WNV, followed by 06 or 12, may be followed by P, F or PF, may be followed by 1 through 15 alphanumeric code

TU6004HNO, followed by 02 through 06, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU6004WNV and TU6004WNR, followed by 02 through 06, may be followed by P, C or PC, may be followed by 1 through 15 alphanumeric code

TU6005HNO, followed by 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TU6005WNV and TU6005WNR, followed by 02 through 09, may be followed by P, C or PC, may be followed by 1 through 15 alphanumeric code

TU6007, TU6008, followed by HNO, WBV or WNV, followed by 1 through 6 or 01 through 06, may be followed by P, may be followed by 1 through 15 alphanumeric code

TY1081HNO, followed by 1, 2, 3, 1X, 2X or 3X, followed by 1 through 5 or 01 through 05, may be followed by P, may be followed by 1 through 15 alphanumeric code

TY1082HNO, followed by 1, 2, 3, 1X, 2X or 3X, followed by 1 through 5 or 01 through 05, may be followed by P, PW or W, may be followed by 1 through 15 alphanumeric code

TY1252HNO, followed by 02 through 10, may be followed by P, may be followed by 1 through 15 alphanumeric code

TY1381, followed by HNO followed by 2, 3, 4, 6, 9, 12, 15, 02, 03, 04, 06, 09, 1X02, 1X03, 1X04, 2X2, 2X02, 2X03, 3X03, 3X04 or 3X05, may be followed by P, may be followed by 1 through 15 alphanumeric code

TY1382, followed by HNO followed by 2 1X02, 2x2 or 2X02, may be followed by P, may be followed by 1 through 15 alphanumeric code

TY1382, followed by HNO followed by 2, 3, 4, 6, 9, 12, 15, 02, 03, 04, 06, 09, 1X02, 1X03, 1X04, 2X2, 2X02, 2X03, 3X03, 3X04 or 3X05, followed by PW or W, may be followed by 1 through 15 alphanumeric code

TY1501HNO, followed by 02 thru 13, may be followed by P, may be followed by 1 through 15 alphanumeric code

TY1581, followed by HNO followed by 2, 3, 4, 6, 9, 12, 15, 02, 03, 04, 06, 09, 1X02, 1X03, 1X04, 2X03, 3X03, 3X04 or 3x05, followed by PL or L, may be followed by 1 through 15 alphanumeric code

TY1581, TY1582, followed by HNO followed by 1, 2, 3, 4, 5, 6, 9, 12, 15, 01, 02, 03, 04, 05, 06, 09, 1X01, 1X02, 1X03, 1X04, 1X05, 2X2, 2X02, 2X03, 3X03, 3X04 or 3X05, may be followed by P, W or PW, may be followed by 1 through 15 alphanumeric code

TY1582, followed by HNO followed by 2, 3, 4, 6, 9, 12, 15, 02, 03, 04, 1X02, 1X03, 1X04, 2X03, 3X03, 3X04 or 3x05, followed by PL, L, LW or PLW, may be followed by 1 through 15 alphanumeric code

TY2081, followed by HNO followed by 1, 2, 3, 4, 6, 9, 12, 15, 01, 02, 03, 04, 06, 09, 1X01, 1X02, 1X03, 1X04, 2X2, 2X02, 2X03, 3X03, 3X04 or 3X05, may be followed by P, may be followed by 1 through 15 alphanumeric code

TY2082, followed by HNO followed by 1, 2, 3, 4, 6, 9, 12,15, 01, 02, 03, 04, 06, 09, 1X01, 1X02, 1X03, 1X04, 2X2, 2X02, 2X03, 3X03, 3X04 or 3X05, may be followed by P, W or PW, may be followed by 1 through 15 alphanumeric code

TY2083, TY2084, followed by HNO, followed by 2 through 10 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TY2361, followed by HNO, followed by 1X1, 1X2, 1X3, 1X4, 1X5, 2X2, 2X3, 3X3, 3X4, 3X5, 1X01, 1X02, 1X03, 1X04, 1X05, 2X02, 2X03, 3X03, 3X04 or 3X05, followed by PL or L, may be followed by 1 through 15 alphanumeric code

TY2361, TY2362, followed by HNO, followed by 1X1, 1X2, 1X3, 1X4, 1X5, 2X2, 2X3, 3X3, 3X4, 3X5, 1X01, 1X02, 1X03, 1X04, 1X05, 2X02, 2X03, 3X03, 3X04 or 3X05, may be followed by P, W or PW, may be followed by 1 through 15 alphanumeric code

TY2362, followed by HNO, followed by 1X1, 1X2, 1X3, 1X4, 2X3, 3X3, 3X4, 3X5, 1X01, 1X02, 1X03, 1X04, 2X03, 3X03, 3X04 or 3X05, followed by PL, L, LW or PLW, may be followed by 1 through 15 alphanumeric code

TY3081, TY3082, followed by HNO, followed by 2 through 12 or 02 through 09, may be followed by P, PW or W, may be followed by 1 through 15 alphanumeric code

TY3083, followed by HNO, followed by 2 through 20 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TY3084, followed by HNO, followed by 2 through 12 or 02 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TY3085HNO, followed by 1X02 thru 1X12 or 2X01 thru 2X12, may be followed by P, may be followed by 1 through 15 alphanumeric code

TY3086HNO, followed by 1X02 thru 1X12 or 2X01 thru 2X12, may be followed by P, W or PW, may be followed by 1 through 15 alphanumeric code

TY3086WNR, followed by 1X02 thru 1X12, may be followed by PF, PS, F, S, SF or PSF, may be followed by 1 through 15 alphanumeric code

TY3086WNR, followed by 2X01 thru 2X12, followed by PF, PS, F, S, SE or PSE, may be followed by 1 through 15 alphanumeric code

TY3086WNV, followed by 1X02 thru 1X12 or 2X01 thru 2X12, may be followed by P, PS, F, S, SE or PSE, may be followed by 1 through 15 alphanumeric code

TY3501HNO-02, may be followed by P, may be followed by 1 through 15 alphanumeric code

TY4001HNO, followed by 02 thru 05, may be followed by P, may be followed by 1 through 15 alphanumeric code

TY4281, followed by HNO, followed by 2x or 2X, followed by 1 through 12 or 01 through 09, may be followed by P, may be followed by 1 through 15 alphanumeric code

TY4282, followed by HNO, followed by 2x or 2X followed by 1 through 12 or 01 through 09, may be followed by P, W or PW, may be followed by 1 through 15 alphanumeric code

TY5006HNO, followed by 1X02 thru 1X12, may be followed by P, may be followed by 1 through 15 alphanumeric code

TY5083HNO-03, may be followed by P, may be followed by 1 through 15 alphanumeric code

TY5084HNO-03, followed by PA or A, may be followed by 1 through 15 alphanumeric code

TY5084HNO-03, may be followed by P, may be followed by 1 through 15 alphanumeric code

TY5085HNO-02, may be followed by P, may be followed by 1 through 15 alphanumeric code

TY5086HNO-02, may be followed by P, may be followed by 1 through 15 alphanumeric code

TY6351HNO and TY6352HNO, followed by 1X1, 1X2, 1X3, 1X4, 2X3, 3X3, 3X4, 3X5, 1X01, 1X02, 1X03, 1X04, 2X03, 3X03, 3X04 or 3X05, may be followed by P, may be followed by 1 through 15 alphanumeric code

TY8081, TY8082, followed by HNO, followed by 4 or 04, may be followed by P, may be followed by 1 through 15 alphanumeric code

TY8082, followed by WNR or WNV, followed by 4 or 04, may be followed by R, may be followed by 1 through 15 alphanumeric code

Marking: Company name and model designation on the device or carton.
Last Updated on 2016-06-23

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测试报告

No. CANEC1823697202　　日期: 2018年11月30日　第1页,共14页

東莞唐虞電子有限公司

東莞市塘廈鎮138工業區宏業北13路裕華街53號

以下测试之样品是由申请者所提供及确认：NYLON66 UL94-V0 (无卤HF-本色)

SGS工作编号：	CP18-061431 - SZ
样品接收日期：	2018年11月14日
测试周期：	2018年11月14日 - 2018年11月26日
测试要求：	根据客户要求测试
测试方法：	请参见下一页
测试结果：	请参见下一页
结论：	基于所送样品进行的测试，镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)的测试结果不超过欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

通标标准技术服务有限公司广州分公司
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Dongyu Xie谢冬育
批准签署人

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测试结果 :

测试样品描述 :

样品编号	SGS样品ID	描述
SN1	CAN18-236972.001	白色塑胶

备注 :

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

(2) MDL = 方法检测限

(3) ND = 未检出 (< MDL)

(4) "-" = 未规定

RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

测试方法 : 参考IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 和 IEC 62321-6:2015, 采用 ICP-OES , UV-Vis 和 GC-MS 进行分析 。

测试项目	限值	单位	MDL	*001*
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1,000	mg/kg	2	ND
汞 (Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))	1,000	mg/kg	8	ND
多溴联苯之和(PBBs)	1,000	mg/kg	-	ND
一溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1,000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND
五溴二苯醚	-	mg/kg	5	ND

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测试项目	限值	单位	MDL	*001*
六溴二苯醚	-	mg/kg	5	ND
七溴二苯醚	-	mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚	-	mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND

备注 :

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。IEC 62321系列等同于 EN 62321系列http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(2) 2015年6月4 号发表在欧盟官方杂志（官方公报）上的RoHS指令(EU) 2015/863附录II限值中还包括邻苯二甲酸酯BBP，DBP，DEHP和DIBP。新的指令限制了电子电器产品的每一个均一材质中邻苯二甲酸酯含量不得超过0.1%。

(3) 2021年7月22号开始，DEHP, BBP, DBP 和 DIBP的限制适用于医疗器械，包括体外医疗器械，监控仪表，包括工业监测和控制仪器。

(4) DEHP, BBP, DBP 和 DIBP的限制不适用于2019年7月22日前投放市场的电缆及电子电气产品中用于维修、重复利用、功能更新及容量提升的备用配件以及2021年7月22日前投放市场的医疗器械，包括体外医疗器械，监控仪表，包括工业监测和控制仪器。

(5) DEHP、BBP 和 DBP的限制不适用于玩具产品，因为No.1907/2006附录XVII第51条已对玩具产品中的DEHP、BBP 和 DBP含量进行了限制。

卤素

测试方法 : 参考EN 14582:2016，用 IC分析。

测试项目	单位	MDL	*001*
氟 (F)	mg/kg	50	ND
氯 (Cl)	mg/kg	50	ND
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

元素分析

测试方法 : SGS内部方法(GZTC CHEM-TOP-004-01，参考US EPA 方法 3052: 1996)，采用ICP-OES进行分析。

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测试项目	单位	MDL	*001*
锑 (Sb)	mg/kg	10	ND

红磷

测试方法 : 参考SGS内部方法(GZTC CHEM-TOP-215-01)，用PY-GC-MS &ICP-OES分析。

测试项目	单位	MDL	*001*
红磷	mg/kg	500	ND

六溴环十二烷(HBCDD)

测试方法 : 参考 IEC 62321:2008, 用 GC-MS分析。

测试项目	单位	MDL	*001*
六溴环十二烷(HBCDD)	mg/kg	10	ND

全氟辛酸(PFOA)和全氟辛烷磺酸(PFOS)

测试方法 : 参考CEN/TS15968:2010方法，用 LC-MS分析。

测试项目	CAS NO.	单位	MDL	001
全氟辛酸(PFOA)	335-67-1	mg/kg	10	ND
全氟辛烷磺酸及其衍生物 (PFOS)^	-	mg/kg	10	ND

备注 :

（1）^全氟辛烷磺酸(PFOS)及其衍生物包含全氟辛烷磺酸(PFOS)、全氟辛基磺酰胺(PFOSA)、2-（N-乙基全氟辛基磺酰胺）乙醇(EtFOSE)、N-甲基全氟辛烷磺酰胺(MeFOSA)、N-乙基全氟辛烷磺酰胺(EtFOSA)和2-（N-甲基全氟辛基磺酰胺）乙醇(MeFOSE)。

邻苯二甲酸酯

测试方法 : 参考IEC 62321-8:2017, 采用GC-MS进行分析.

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测试项目	CAS NO.	单位	MDL	001
邻苯二甲酸二丁酯 (DBP)	84-74-2	%(w/w)	0.005	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%(w/w)	0.005	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%(w/w)	0.005	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%(w/w)	0.005	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.005	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.005	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%(w/w)	0.005	ND
邻苯二甲酸二甲酯 (DMP)	131-11-3	%(w/w)	0.005	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%(w/w)	0.005	ND
邻苯二甲酸二苯酯 (DPhP)	84-62-8	%(w/w)	0.005	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%(w/w)	0.005	ND
邻苯二甲酸二正戊酯 (DnPP)	131-18-0	%(w/w)	0.005	ND
邻苯二甲酸二丙酯 (DPrP)	131-16-8	%(w/w)	0.005	ND
邻苯二甲酸二异辛酯 (DIOP)	27554-26-3	%(w/w)	0.005	ND
邻苯二甲酸二乙酯 (DEP)	84-66-2	%(w/w)	0.005	ND
邻苯二甲酸二环己酯 (DCHP)	84-61-7	%(w/w)	0.005	ND
邻苯二甲酸二(支链与直链)戊基酯 (DPP)	84777-06-0	%(w/w)	0.005	ND
邻苯二甲酸二壬酯 (DNP)	84-76-4	%(w/w)	0.005	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%(w/w)	0.005	ND

多环芳香烃(PAHs)

测试方法 : 参考AfPS GS 2014:01 PAK测试, 采用 GC-MS进行分析。

测试项目	CAS NO.	单位	MDL	001
萘 (NAP)	91-20-3	mg/kg	0.1	ND
苊烯(ANY)	208-96-8	mg/kg	0.1	ND
苊(萘嵌戊烷) (ANA)	83-32-9	mg/kg	0.1	ND
芴 (FLU)	86-73-7	mg/kg	0.1	ND
菲 (PHE)	85-01-8	mg/kg	0.1	ND
蒽 (ANT)	120-12-7	mg/kg	0.1	ND
荧蒽 (FLT)	206-44-0	mg/kg	0.1	ND
芘 (PYR)	129-00-0	mg/kg	0.1	ND
苯并(a)蒽 (BaA)	56-55-3	mg/kg	0.1	ND
屈 (CHR)	218-01-9	mg/kg	0.1	ND
苯并(b)荧蒽 (BbF)	205-99-2	mg/kg	0.1	ND
苯并(j)荧蒽 (BjF)	205-82-3	mg/kg	0.1	ND

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测试项目	CAS NO.	单位	MDL	001
苯并 (k)荧蒽 (BkF)	207-08-9	mg/kg	0.1	ND
苯并(a)芘 (BaP)	50-32-8	mg/kg	0.1	ND
苯并(e)芘 (BeP)	192-97-2	mg/kg	0.1	ND
茚苯(1,2,3-c,d)芘 (IPY)	193-39-5	mg/kg	0.1	ND
二苯并(a,h)蒽(DBA)	53-70-3	mg/kg	0.1	ND
苯并(g,h,i)苝(二萘嵌苯) (BPE)	191-24-2	mg/kg	0.1	ND
7项多环芳香烃总和[苊烯(ANY)，苊(萘嵌戊烷) (ANA)，芴 (FLU)，菲 (PHE)，芘 (PYR)，蒽 (ANT)，荧蒽 (FLT)]		mg/kg	-	ND
18项多环芳香烃总和		mg/kg	-	ND

AfPS(德国产品安全委员会):GS 认证对多环芳香烃的要求

参数	1 类	2 类		3 类	
	设计意图为放入口中的材料或者玩具上与皮肤接触的材料 (接触时间大于30秒).	未在 1 类规定中涵盖的材料,且可能与皮肤接触时间大于 30 秒的材料 (长时间接触皮肤)或频繁接触皮肤.		未在 1 和 2 类规定中涵盖的材料,且可能与皮肤接触的少于 30 秒的材料(短期接触皮肤)	
		2009/48/EC 中适用的玩具	产品安全法涉及的其他产品	2009/48/EC中适用的玩具	产品安全法涉及的其他产品
苯并(a)芘 (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(e)芘 (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(a)蒽 (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(b)荧蒽 (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(j)荧蒽 (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并 (k)荧蒽mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
屈 (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
二苯并(a,h)蒽(DBA)mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(g,h,i)苝(二萘嵌苯) (BPE)n mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚苯(1,2,3-c,d)芘 (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苊烯(ANY)，苊(萘嵌戊烷) (ANA)，芴 (FLU)，菲 (PHE)，芘 (PYR)，蒽 (ANT)，荧蒽 (FLT)之和 mg/kg	< 1 （总和）	< 5 （总和）	< 10 （总和）	< 20 （总和）	< 50 （总和）
萘 (NAP) mg/kg	< 1	< 2		< 10	
18 PAH之和	<1	< 5	< 10	< 20	< 50

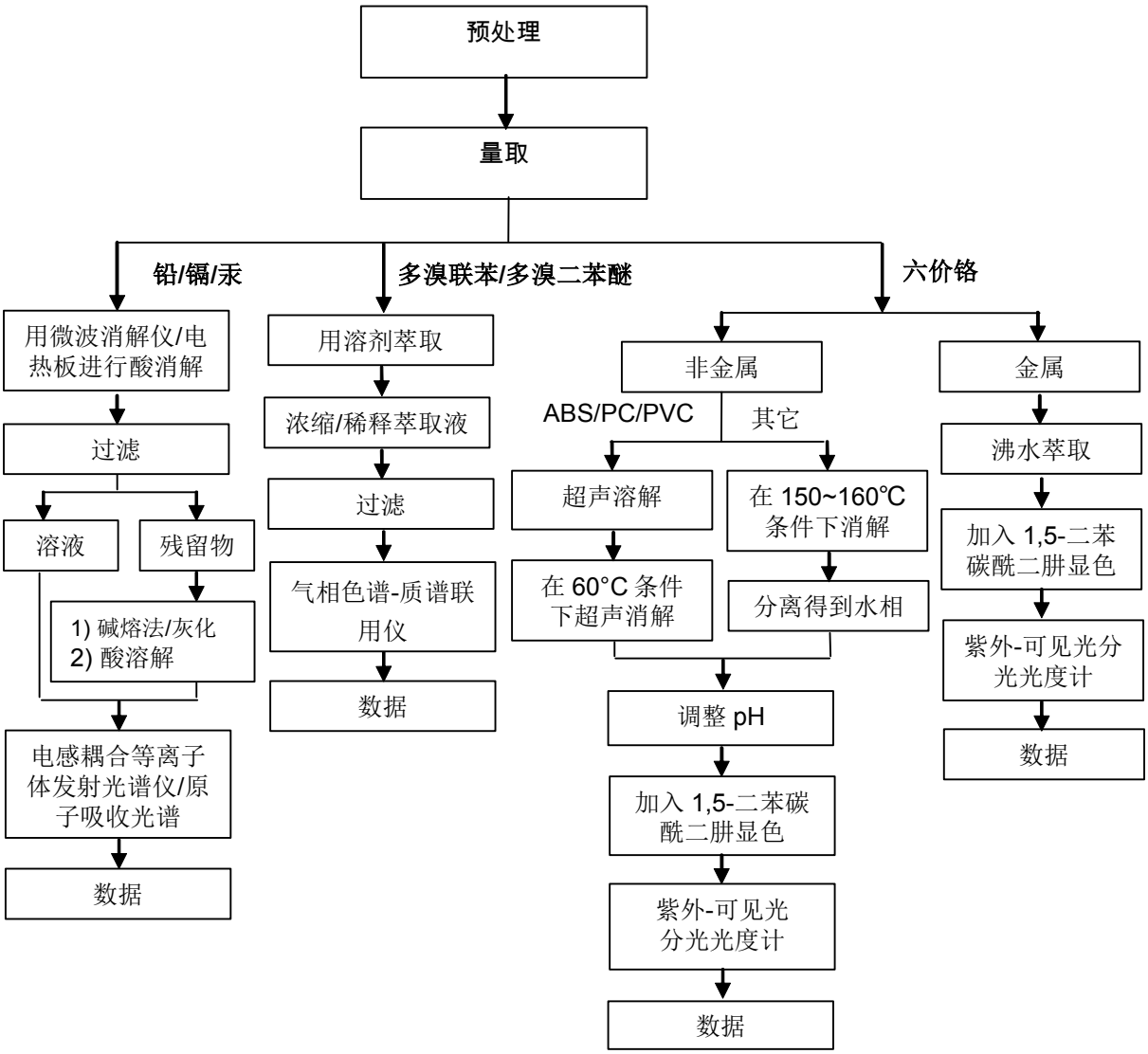
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附件

Pb/Cd/Hg/Cr^{6+}/PBBs/PBDEs 测试流程图

1）样品按照下述流程被完全消解（六价铬和多溴联苯/多溴二苯醚测试除外）。



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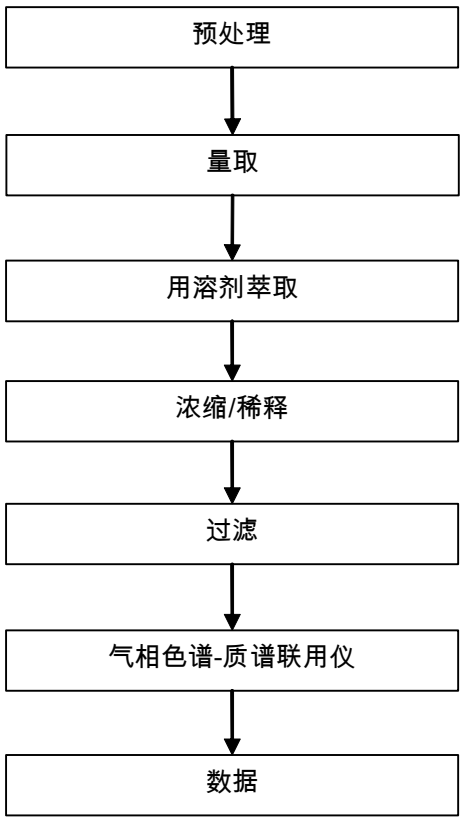
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Phthalates 测试流程图

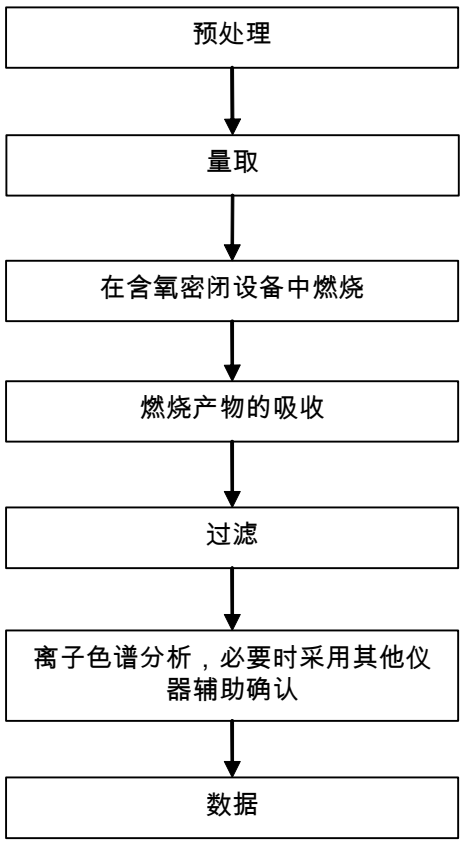


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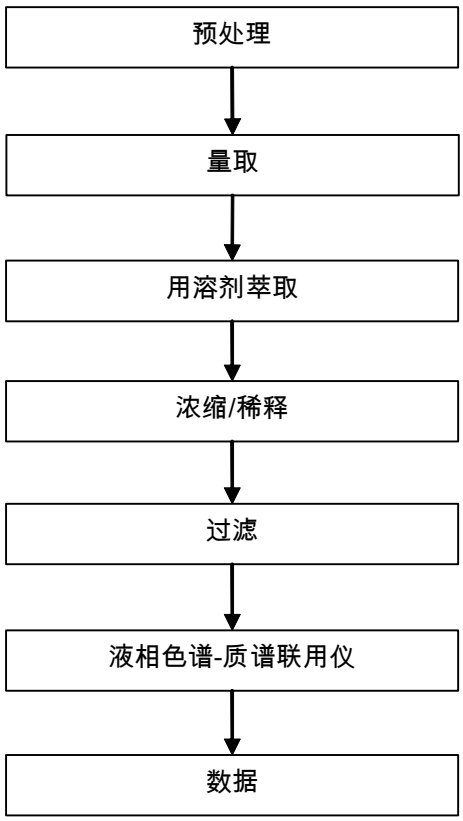
Halogen 测试流程图



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附件

PFOA / PFOS 测试流程图

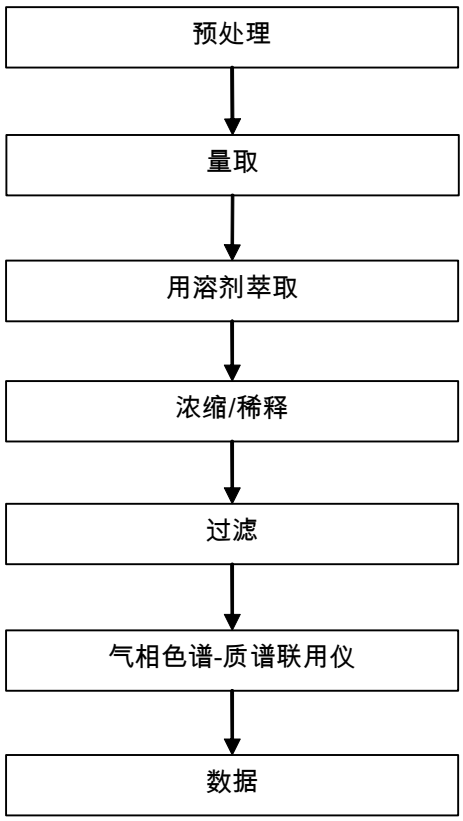


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附件

HBCDD 测试流程图

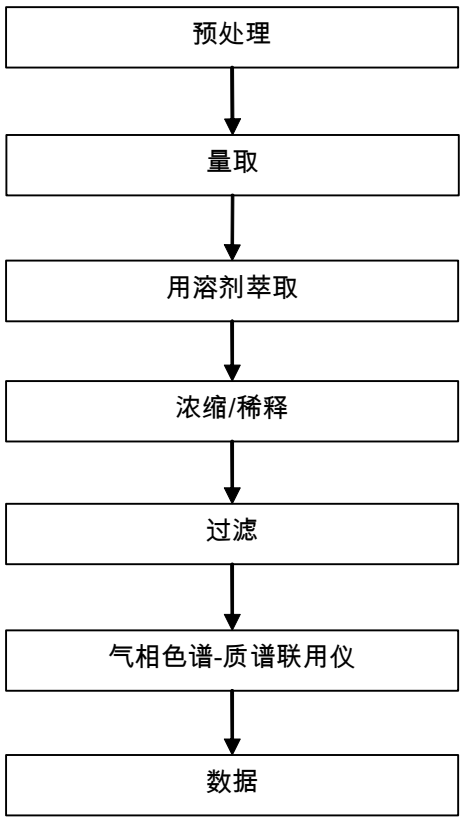


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PAHs 测试流程图

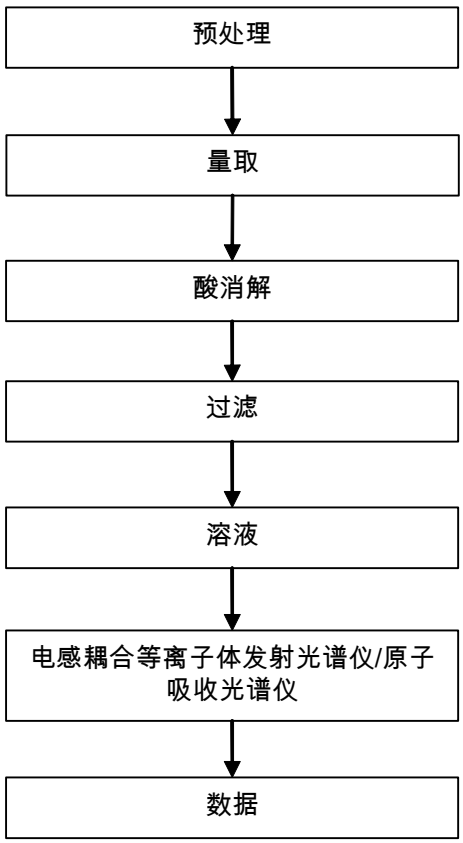


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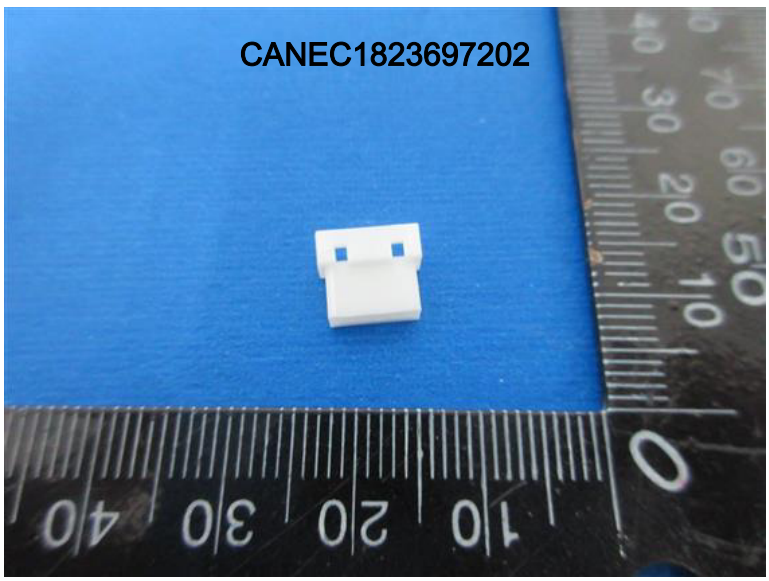
元素测试流程图



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NO.53,YUHUASTREET,NO13HONGYENORTHRD,138INDUSTRIALZONE,TANGXIATOWN, DONGGUANCITY,,GUANGDONGPROVINCE,P.R. CHINA)

The following sample(s) was/were submitted and identified on behalf of the clients as : TIN-PLATED TERMINAL

SGS Job No. :	CP18-061431 - SZ
Date of Sample Received :	15 Nov 2018
Testing Period :	15 Nov 2018 - 23 Nov 2018
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).

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

Zmguan

Zm guan
Approved Signatory

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

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN18-237148.001	Silvery plating on metal
SN2	CAN18-237148.002	Red metal (base of silvery plated metal)
SN3	CAN18-237148.003	Silvery plated metal

Remarks :

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

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

Elementary Analysis

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis .

Test Item(s)	Unit	MDL	*001*	*002*
Cadmium (Cd)	mg/kg	10	ND	
		2		ND
Lead (Pb)	mg/kg	10	41	
		2		26
Mercury (Hg)	mg/kg	10	ND	
		2		ND
Hexavalent Chromium (Cr(VI))▾	µg/cm²	0.10	ND	ND

Notes :

(1) IEC 62321 series is equivalent to EN 62321 series http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(2) ▾= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI

b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating

c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable

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and thus Cr(VI) results represent status of the sample at the time of testing.

Elementary Analysis

Test Method : SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method 3050B:1996), analysis was performed by ICP-OES.

Test Item(s)	Unit	MDL	*003*
Antimony (Sb)	mg/kg	10	ND

Red Phosphor

Test Method : SGS In-house method (GZTC CHEM-TOP-215-01), analysis was performed by PY-GC/MS& ICP-OES.

Test Item(s)	Unit	MDL	*003*
Red phosphorus	mg/kg	500	ND

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Unit	MDL	003
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND

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Test Item(s)	CAS NO.	Unit	MDL	003
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Sum of 7 PAHs Acenaphthylene. Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	mg/kg	-	ND
Sum of 18 PAHs	-	mg/kg	-	ND

AfPS (German commission for Product Safety) : GS PAHs requirements

Parameter	Category 1	Category 2		Category 3	
	Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).	Materials not falling under category 1 with foreseeable contact to skin for longer than 30 s (long-term skin) or frequent contact.		Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 s (short-term skin contact).	
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG
Benzo(a)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene Mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(l,2,3-cd)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Acenaphthylene, Acenaphthene, fluorene,phenanthrene , pyrene, anthracene, fluoranthene, mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene, mg/kg	< 1	< 2		< 10	
Sum of 18 PAHs	<1	< 5	< 10	< 20	< 50

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PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)

Test Method : With reference to CEN/TS15968:2010, analysis was performed by LC-MS.

Test Item(s)	CAS NO.	Unit	MDL	003
Perfluorooctanoic acid (PFOA)	335-67-1	μg/m²	1.0	ND
Perfluorooctane Sulfonates (PFOS)^	-	μg/m²	1.0	ND

Notes :

(1) ^ PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.

Remark: The result(s) of 001 shown are only for reference.

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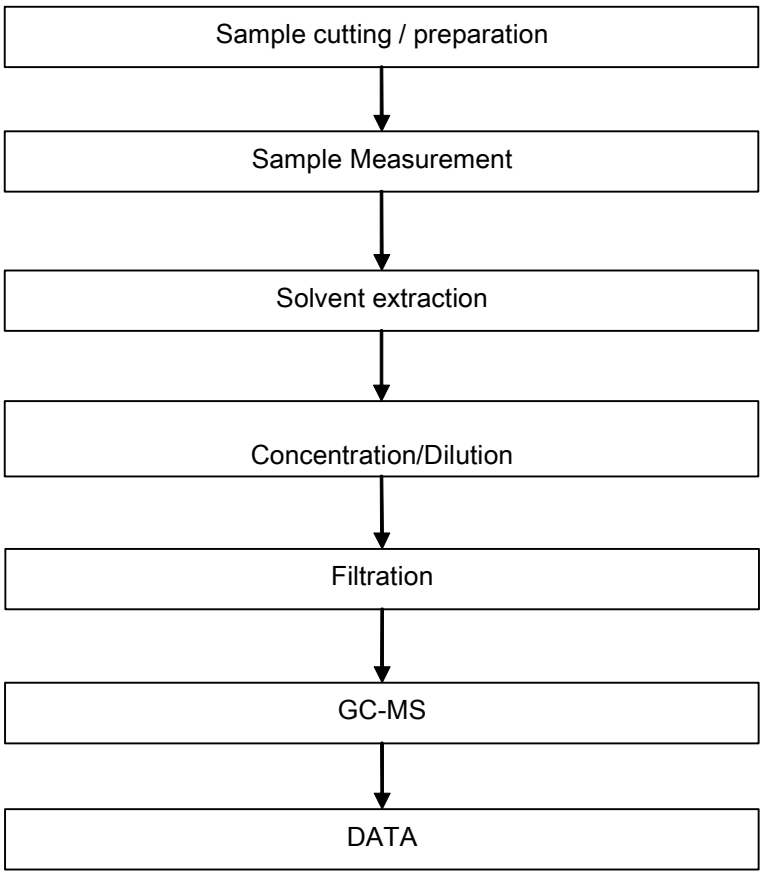
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PAHs Testing Flow Chart

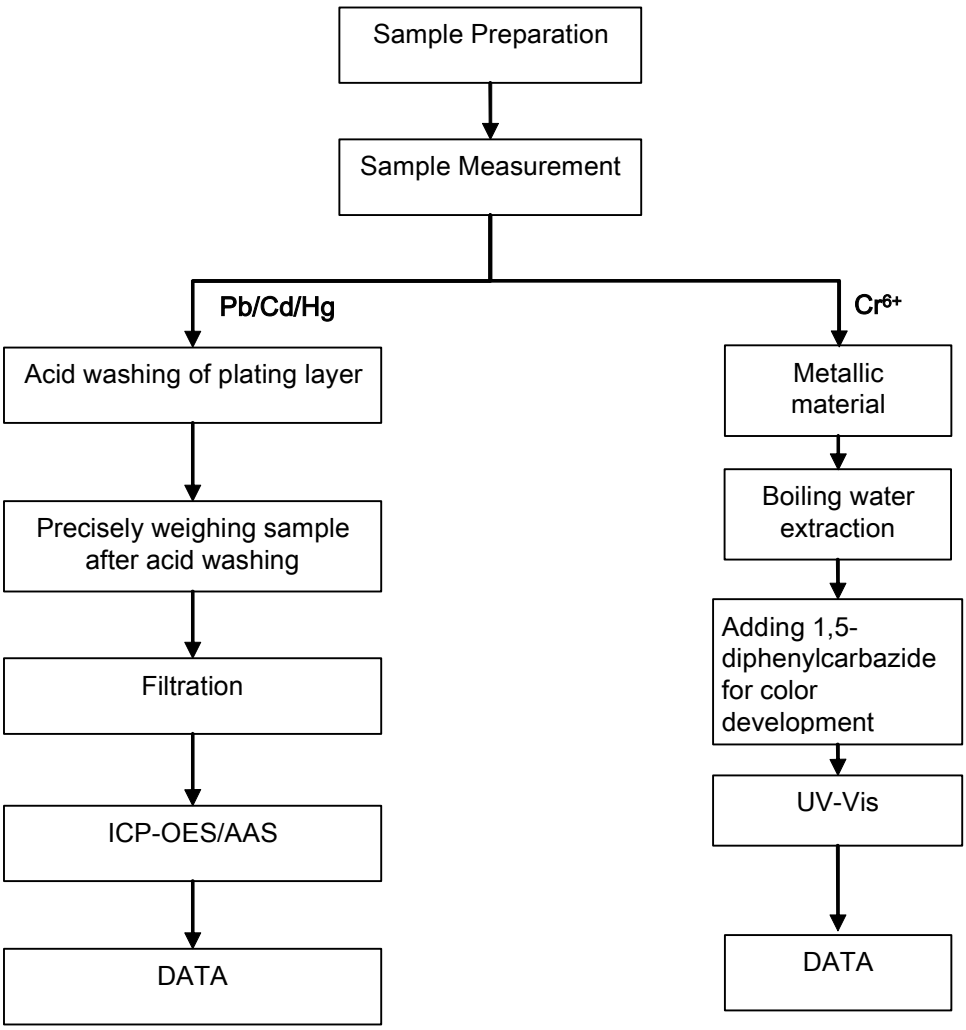


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Plating Pb/Cd/Hg/Cr^{6+} Testing Flow Chart

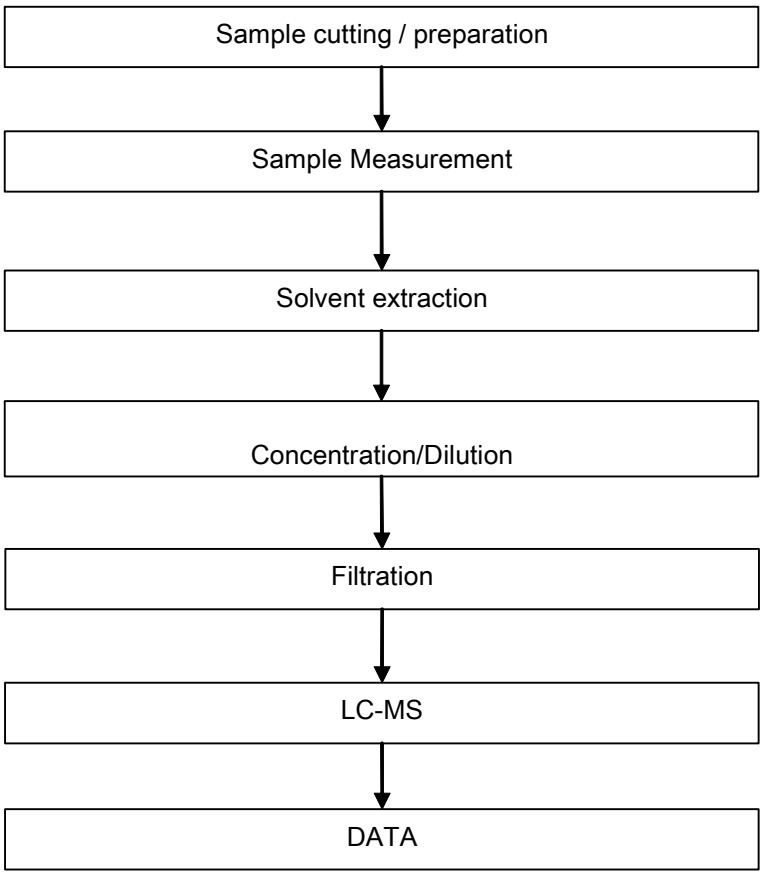


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PFOA / PFOS Testing Flow Chart

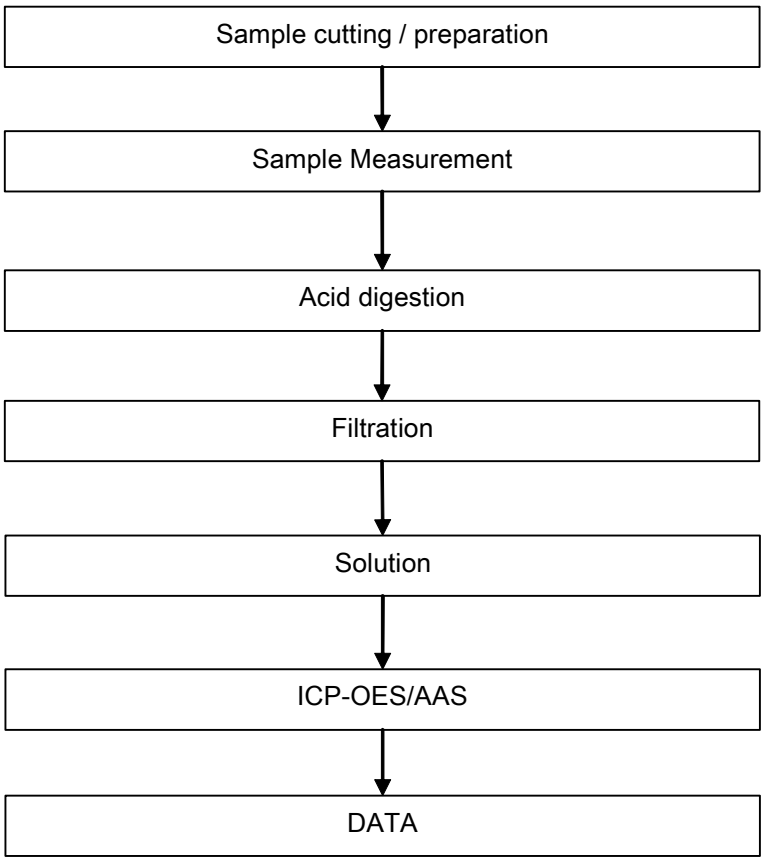


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Elementary Testing Flow Chart



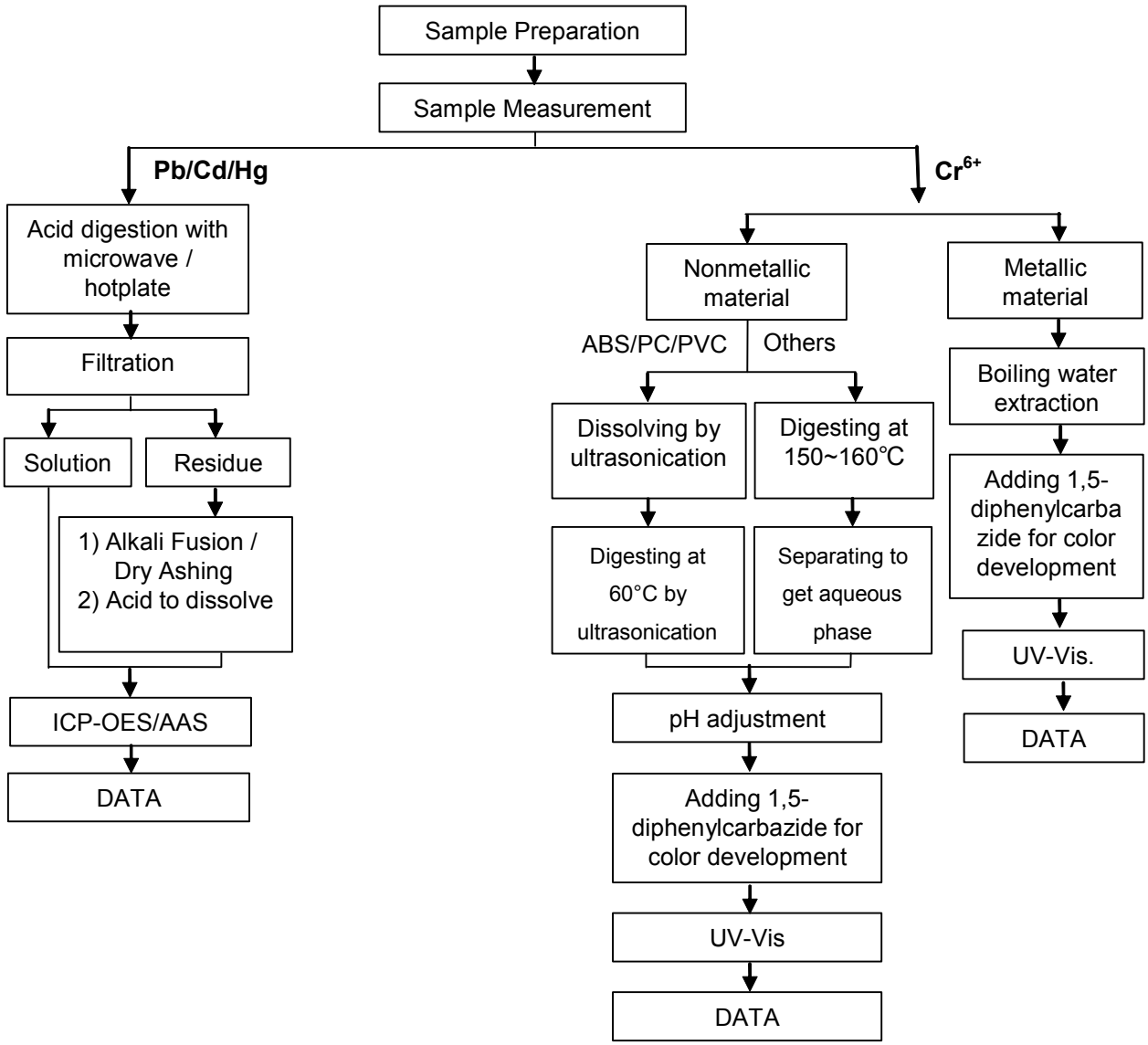
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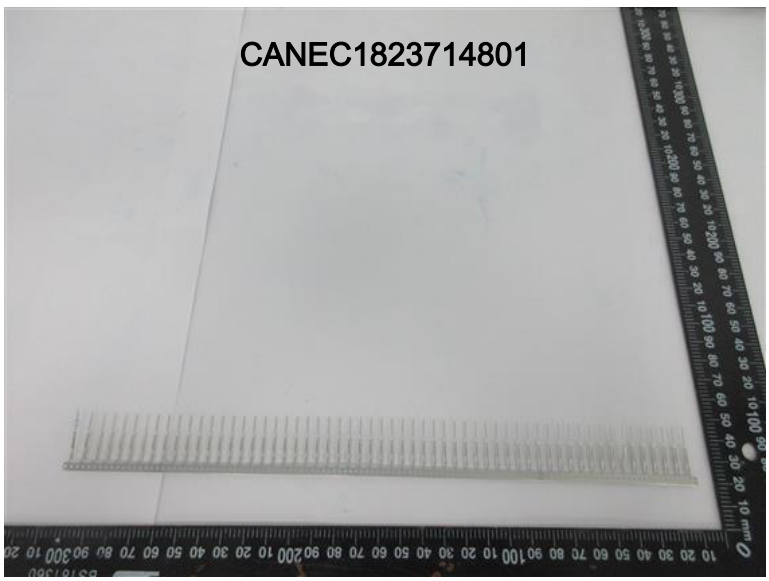
Pb/Cd/Hg/Cr^{6+} Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded).

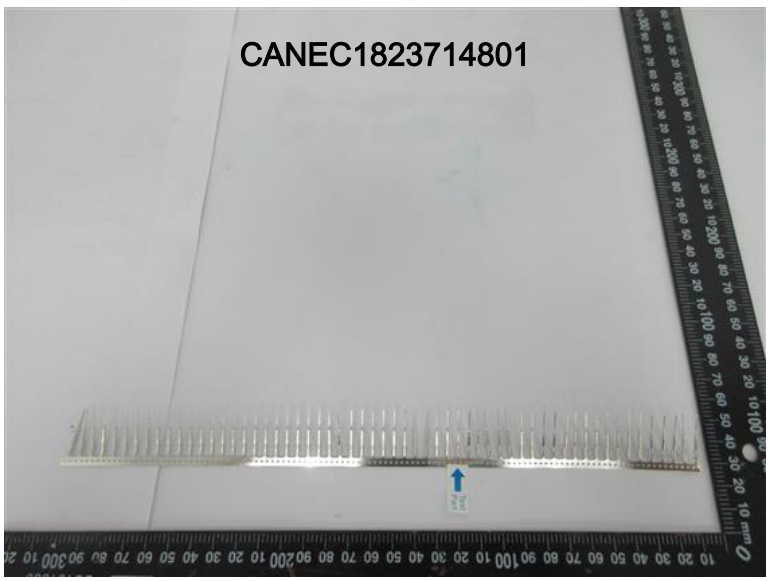


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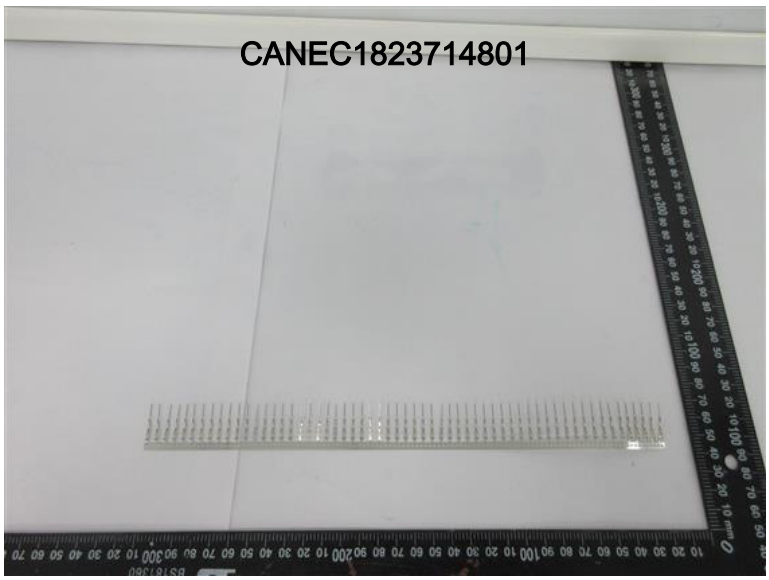
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CAN18-237148.002

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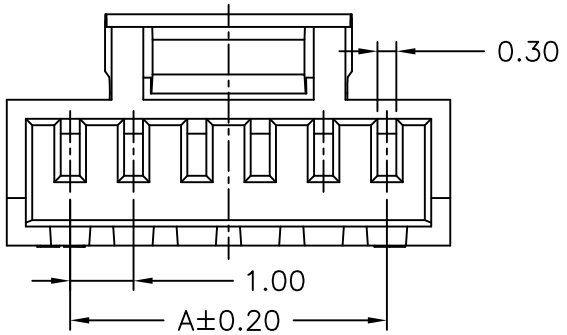
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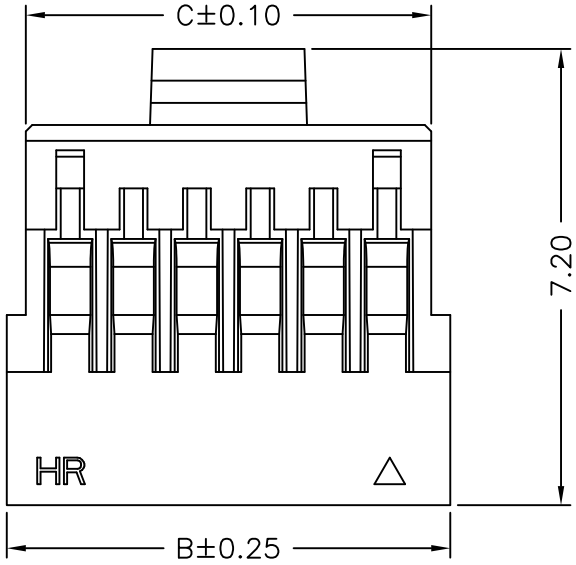
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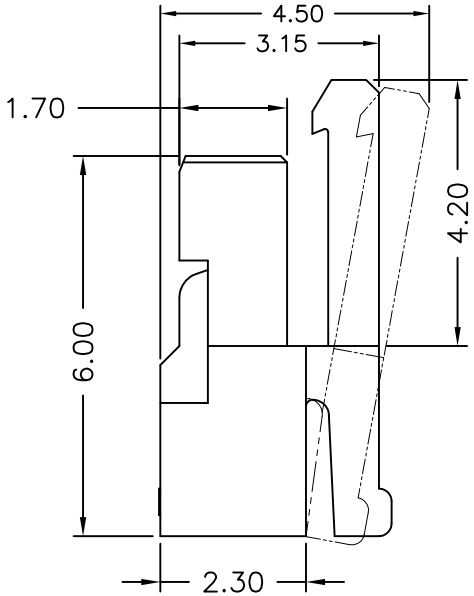
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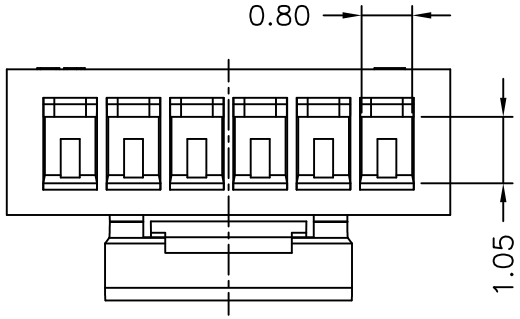
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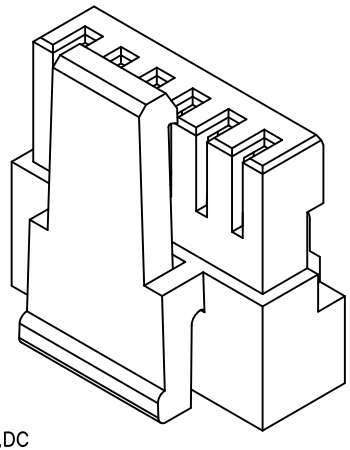




P/N LEGEND

A1024	HA-XP	N	0	W	NP	N	A0	G
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩

① Series No.
② Connector type: HA=Housing A type
③ No. of circuits
④ N=Halogen Free
⑤ Material: 0=Nylon 66-V0
⑥ Color: W=White
⑦ Plating code: NP=Non-plating
⑧ Plating code: N=Non-plating
⑨ Option code: A0=Standard
⑩ Packing code: G=Bag



SPECIFICATIONS
Current Rating: 1A AC,DC
Voltage Rating: 50V AC,DC
Temperature Range: -25°C ~ +85°C
Contact Resistance: 20mΩ Max.
Insulation Resistance: 100MΩ Min.
Withstanding Voltage: 500V AC/minute
Material: Nylon 66,UL94V-0
Color: Natural(White)

Circuit No.	Dimensions A	B	C	Circuit No.	Dimensions A	B	C
02P	1.00	3.00	2.40	12P	11.00	13.00	12.40
03P	2.00	4.00	3.40	13P	12.00	14.00	13.40
04P	3.00	5.00	4.40	14P	13.00	15.00	14.40
05P	4.00	6.00	5.40	15P	14.00	16.00	15.40
06P	5.00	7.00	6.40	16P	15.00	17.00	16.40
07P	6.00	8.00	7.40	17P	16.00	18.00	17.40
08P	7.00	9.00	8.40	18P	17.00	19.00	18.40
09P	8.00	10.00	9.40	19P	18.00	20.00	19.40
10P	9.00	11.00	10.40	20P	19.00	21.00	20.40
11P	10.00	12.00	11.40				

REV.	DESCRIPTION	DATE	NAME
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JOINT TECH ELECTRONIC IND. CO., LTD.

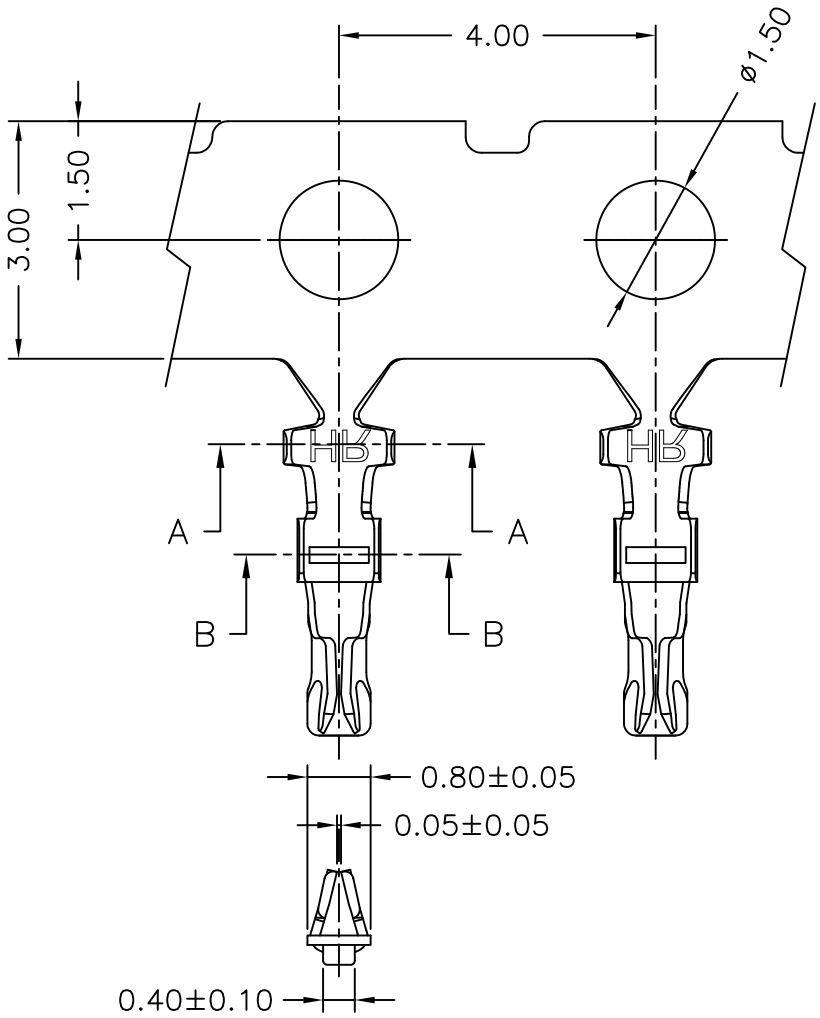
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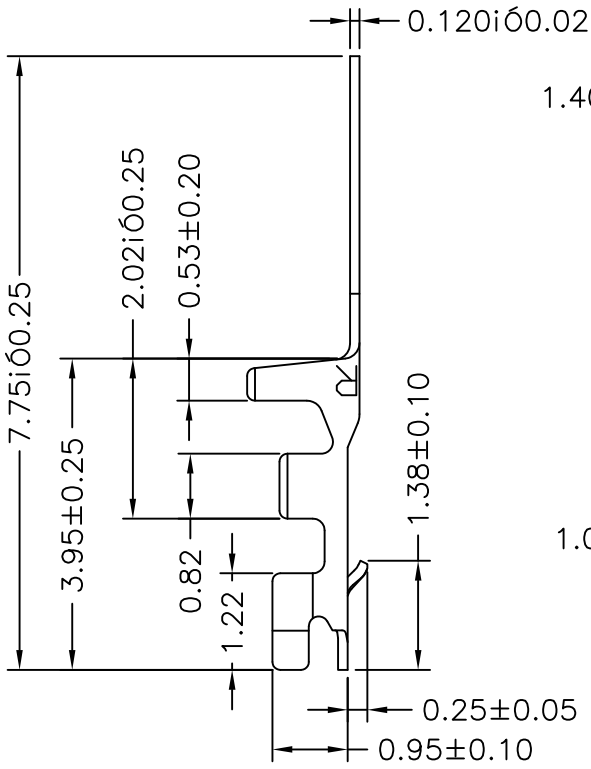
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陳敏 2012.01.10	董正一 2012.01.10

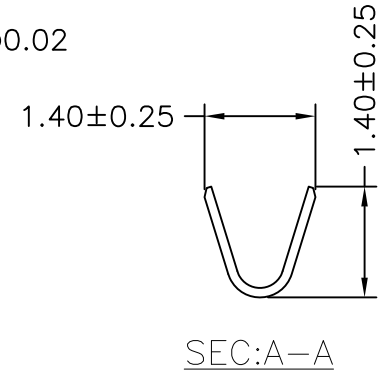
GENERAL TOLERANCE
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X.XX±0.15
X.XXX±0.05
ANGLE±

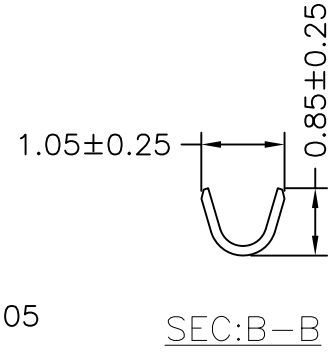
TITLE:
1.00mm PITCH
HOUSING

DRAW NO.: A1024HA-XPNXXXXA0X
REV. A0









Ordering Information & Specifications

Part No.	Wire Range	Insulation O.D.	Material	Finish	Q'ty/Reel
A1024-TPE	AWG#28-#32	0.80mm(max)	Phosphor Bronze	Tin-plated	15,000pcs
A1024-GPE	AWG#28-#32	0.80mm(max)	Phosphor Bronze	Gold-flash	15,000pcs

NOTE: 1.E-Stamping before Tin-plated or Gold-flash
2.鉚線後外圍尺寸不得大0.85mmSQ.

REV.	DESCRIPTION	DATE	NAME
A2	EN1105120127	2011.05.30	陳敏
A1	EN1103020043	2011.03.02	陳敏
A0	NEW RELEASE	2010.12.03	陳敏

燦達電子工業股份有限公司
JOINT TECH ELECTRONIC IND. CO., LTD.

UNIT	SCALE	SHEET
mm	1 : 1	1 of 1

DRAWN BY	APPROVED BY
陳敏 2010.12.03	董正一 2010.12.03

GENERAL TOLERANCE

X.X±0.25	ANGLE±
X.XX±0.15	
X.XXX±0.05	

TITLE:

1.00mm PITCH CRIMP TERMINAL

DRAW NO.: A1024-XX

REV. A2

Underwriters Laboratories Inc.®

Northbrook Division
333 Pfingsten Road
Northbrook, IL 60062-2096 USA
www.ul.com
tel: 1 847 272 8800

JOINT TECH ELECTRONIC
INDUSTRIAL CO LTD
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1ST FL
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HSI-CHIH CHEN
TAIPEI HSIEN TAIWAN

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ECBT2 August 13, 2003
Connectors for Use in Data, Signal, Control and Power Applications - Component

JOINT TECH ELECTRONIC INDUSTRIAL CO LTD E179987
1ST FL 50 TA AN ST HSI-CHIH CHEN, TAIPEI HSIEN TAIWAN

Connectors, Cat. No. A1080 followed by H ow WV, followed by 1P thru 6P; Cat. No. A1250 followed by H, WR, WR-S, WV or WV-S, followed by 2P thru 15P; Cat. No. A1251 followed by H, WR or WV, followed by 2P thru 15P; Cat. No. A1252 followed by H, WR, WR-S, WV or WV-S, followed by 2P thru 15P; Cat. No. A1500 followed by H, WR or WV, followed by 2P thru 13P; Cat. No. A2013 followed by H, P or WV, followed by 3P; Cat. No. A2211 followed by H, WV-S, followed by 4P thru 40P; Cat. No. A2540 followed by H, WR or WV, followed by 2P thru 12P; Cat. No. A4000 followed by H or WR-S, followed by 2P thru 4P; Cat. No. C4255 followed by HF-2, HM-2, WR-2, WR-E-2, WV-2 or WVA-2 or WVA-F-2, followed by 2P thru 24P; Cat. No. C5080 followed by HF, HL, HM or WV, followed by 4P; Cat. No. A7500 followed by H or WV, followed by 1P thru 6P.

Connectors, Cat. No. A2001 followed by H, WR or WV, followed by 2P thru 16P; Cat. No. B2011 followed by HV or HR, followed by 2P thru 16P; Cat. No. A2100 followed by H, WR or WV, followed by 2P thru 15P; Cat. No. A2501 followed by H, WR or WV, followed by 2P thru 15P; Cat. No. A2502 followed by H, WR or WV, followed by 2P thru 15P; Cat. No. A2503 followed by H, WR or WV, followed by 2P thru 20P; Cat. No. C2505 followed by HM or HF, followed by 2P thru 18P; Cat. No. A2541 followed by H-M, WR or WV, followed by 4P; Cat. No. A2542 followed by H, WR or WV, followed by 2P thru 20P; Cat. No. A3960 followed by H, WR or WV, followed by 2P thru 20P; Cat. No. A3961 followed by H, WR or WV, followed by 2P thru 15P; Cat. No. B2512 followed by H, followed by 2P thru 16P.

Connectors, Cat. Nos. A1252H-2X, A1252WV-S-2X, A1252WVA-S-2X followed by 5P, 10P, 15P or 20P; Cat. No. A1253H, A1253WR-S followed by 2P thru 10P, 15P, 20P, 25P or 30P; Cat. No. A1254H, A1254WR-S followed by 2P, 3P, 5P, 6P, 7P, 9P, 14P, 15P, 20P or 30P; Cat. No. A2004H, A2004WV, A2004WR followed by 2X, followed by 2P thru 20P, Cat. No. A3962H followed by 2P thru 12P; Cat. No. B2513HV, B2513HR followed by 2P thru 16P; Cat. No. C6500HF followed by 8P, followed by 1 or 2; Cat. No. C6500HM followed by 16P.

Connector series, Cat. No. A2502.

Low voltage connectors, Cat. No. A2500 followed by H, WR or WV, followed by 2P thru 15P; Cat. No. A2506 followed by H, WR or WV, followed by 2P thru 15P; Cat. No. A2015 followed by WR or WV, followed by 2P thru 40P; Cat. No. A2016 followed by WR or WV, followed by 4P thru 80P; Cat. No. A2545 followed by WR, WV, followed by 2P thru 40P; Cat. No. A2546 followed by WR or WV, followed by 4P thru 80P; Cat. No. A2547 followed by WR or WV, followed by 6P thru 120P; Cat. No. C3030 followed by HF-2 or HM-2, followed by 2P thru 24P; Cat. No. A3500WR-S-2P.

Ribbon cable connectors, Series A2001, A2501, B2512.

Marking: Company name or tradenames "H.R.," "GLF" and catalog or series designation on device or carton.

See General Information Preceding These Recognitions
For use only in equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

JOINT TECH ELECTRONIC INDUSTRIAL CO., LTD./

DONG GUAN JOINT TECH ELECTRONIC CO.,LTD.
4F, 48, TA-AN ST., HIS-CHIH DIST., NEW TAIPEI CITY, TAI WAN./
KONG CHI, CHANG-PING TOWN, DONG-GUAN CITY, GUANG DONG ,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Golden plated metal terminal; Silvery plated metal terminal; Silvery plated metal terminal(matte tin)

SGS Job No. :	CP18-051409 - SZ
Material No. :	PLEASE SEE REMARK
Item No. :	A0400
Date of Sample Received :	18 Sep 2018
Testing Period :	18 Sep 2018 - 26 Sep 2018
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 selected part of submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Merry Lv
Approved Signatory

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

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN18-192632.028	Gold plated metal
SN2	CAN18-192632.029	Silvery plated metal
SN3	CAN18-192632.030	Silvery plated metal

Remarks :

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

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis .

Test Item(s)	Limit	Unit	MDL	*028*	*029*	*030*
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	32	21	28
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (Cr(VI))▾	-	µg/cm²	0.10	ND	ND	ND

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
IEC 62321 series is equivalent to EN 62321 series
http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(2) ▾= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI

b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI based coating

c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

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Member of the SGS Group (SGS SA)

PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)

Test Method : With reference to CEN/TS15968:2010, analysis was performed by LC-MS.

Test Item(s)	CAS NO.	Unit	MDL	028
Perfluorooctanoic acid (PFOA)	335-67-1	µg/m²	1.0	ND
Perfluorooctane Sulfonates (PFOS)^	-	µg/m²	1.0	ND

Test Item(s)	CAS NO.	Unit	MDL	029
Perfluorooctanoic acid (PFOA)	335-67-1	µg/m²	1.0	ND
Perfluorooctane Sulfonates (PFOS)^	-	µg/m²	1.0	ND

Test Item(s)	CAS NO.	Unit	MDL	030
Perfluorooctanoic acid (PFOA)	335-67-1	µg/m²	1.0	ND
Perfluorooctane Sulfonates (PFOS)^	-	µg/m²	1.0	ND

Notes :

(1) ^ PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.

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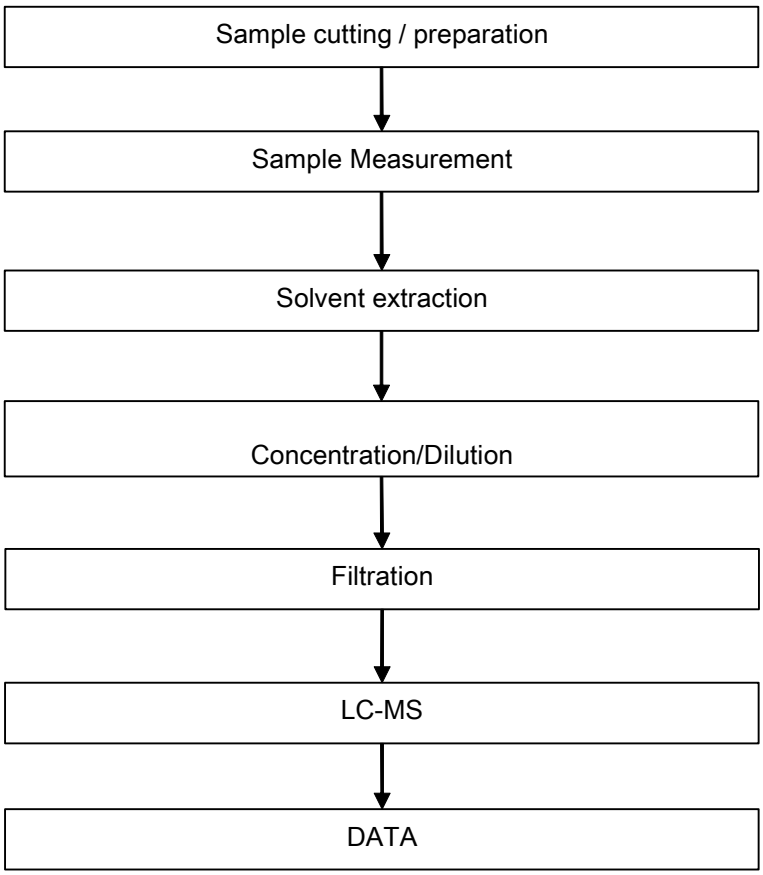
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PFOA / PFOS Testing Flow Chart



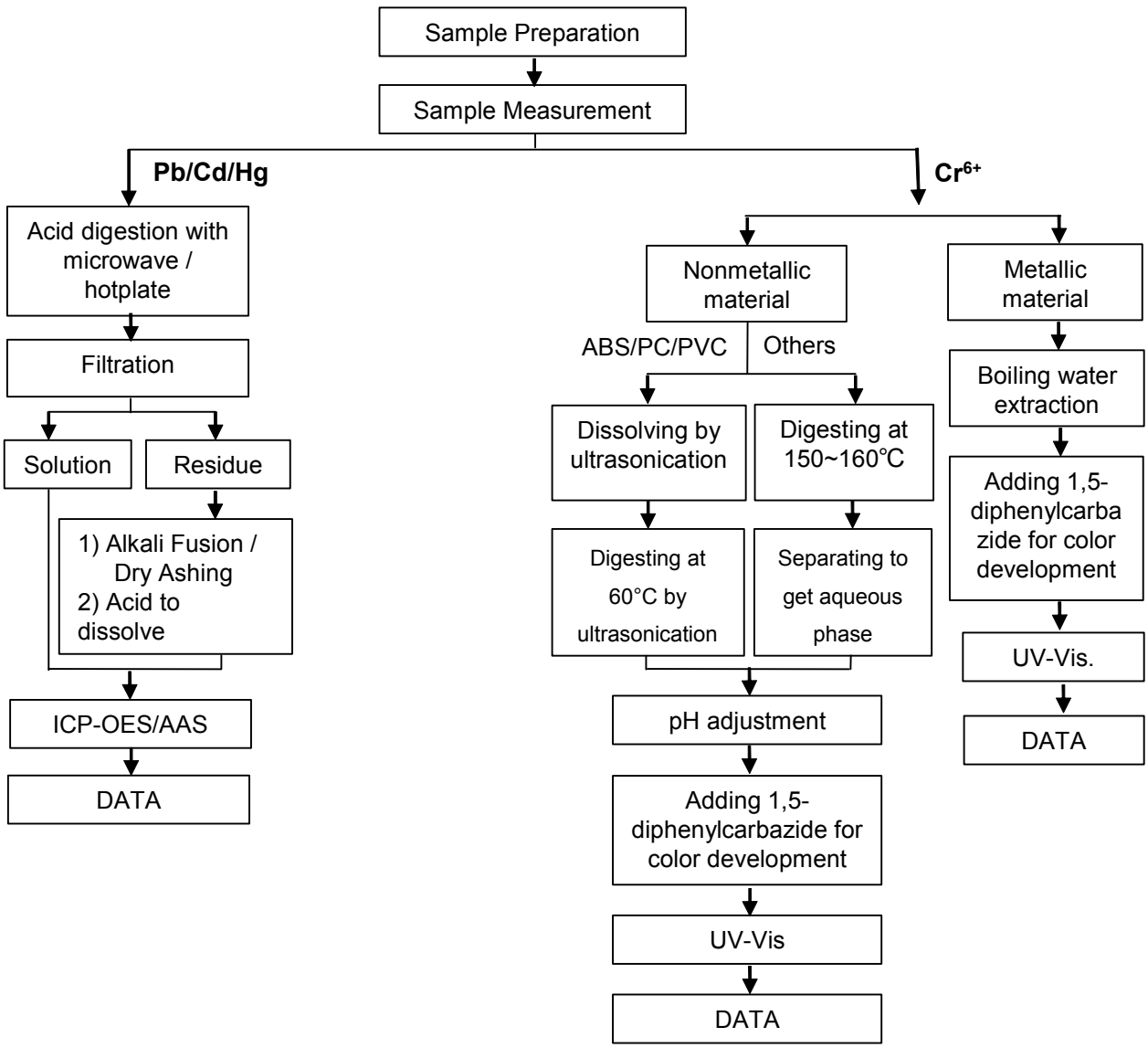
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Pb/Cd/Hg/Cr^{6+} Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded).



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A1009，A1011，A1012，A1013，A1014，A1024，A1026，A1080，A1200，A1250，A1251，

A12510，A12511，A1252，A1253，A1254，A1255，A1256，A1271，A12714，A12716，

A12718，A1272，A1273，A1274，A1275，A1276，A1300，A1500，A1501，A1503，A2000，

A2001，A2002，A2004，A2005，A2006，A2007，A2008，A2009，A2013，A2014，A2015，

A2016，A2017，A2018，A2020，A2100，A2211，A2500，A2501，A2502，A2503，A2506，

A2507，A2508，A2540，A2541，A25410，A25411，A25415，A2542，A2543，A2545，A2546，

A2547，A2548，A3500，A3501，A3800，A3960，A3961，A3962，A3963，A4000，A5081，

A5082，A7500，A7501，A7920，A7921，A7923.

B0401，B0402，B0406，B0510，B0802，B0600，B1027，B1259，B1502，B2011，B2512，

B2513，B3965，B2012，BTP2002，B5083.

C2003，C2013，C2504，C2505，C3030，C2544, C4255，C4500，C5030，C5080，C6350，

C6500，C6501，C6502，C1250.

F0300，F0301，F0305，F0500，F0501，F0502，F0503，F0504，F0505，F0506，F0509，

F0512，F0513，F0514，F0515，F0516，F0517，F0518，F0519，F0521，F0522，F0526，

F0528，F0530，F0531，F0532，F0535，F0537，F0801，F0803，F0804，F1000，F1002，

F1003，F1004，F1005，F1010，F1015，F1016，F1018，F1019，F1020，F1022，F1025，

F1028，F1029，F1030，F1031，F1257，F1258，F2544.

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W20016，W20017，W30013.

10802，10901，10905，10904，10910，11001，11102，11201，11306，11305，11501，11701，11904，12701，12801，12901，12908，13002，13202，16801，16803，16804，17401，17601，17602，17603，18101，18301.

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Sample photo:



CAN18-192632.028



CAN18-192632.029

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JOINT TECH ELECTRONIC INDUSTRIAL CO., LTD./

DONG GUAN JOINT TECH ELECTRONIC CO.,LTD.
4F, 48, TA-AN ST., HIS-CHIH DIST., NEW TAIPEI CITY, TAI WAN./
KONG CHI, CHANG-PING TOWN, DONG-GUAN CITY, GUANG DONG ,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Nylon66，UL94V-0

SGS Job No. :	CP18-051409 - SZ
Client Ref. Info. :	①.white ②.black ③.grey ④.blue ⑤.red ⑥.yellow ⑦.green ⑧.buff ⑨.brown ⑩.orange
Material No. :	PLEASE SEE REMARK
Item No. :	A0400
Date of Sample Received :	18 Sep 2018
Testing Period :	18 Sep 2018 - 26 Sep 2018
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 sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Merry Lv
Approved Signatory

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

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN18-192632.013	White plastic
SN2	CAN18-192632.014	Black plastic
SN3	CAN18-192632.015	Grey plastic
SN4	CAN18-192632.016	Blue plastic
SN5	CAN18-192632.017	Red plastic
SN6	CAN18-192632.018	Yellow plastic
SN7	CAN18-192632.019	Green plastic
SN8	CAN18-192632.020	Lt-yellow plastic
SN9	CAN18-192632.021	Brown plastic
SN10	CAN18-192632.022	Orange plastic

Remarks :

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

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

Test Item(s)	Limit	Unit	MDL	*013*	*014*	*015*
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND

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Test Item(s)	Limit	Unit	MDL	013	014	015
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	ND	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	016	017	018
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND

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Test Item(s)	Limit	Unit	MDL	016	017	018
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	ND	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	019	020	021
Cadmium (Cd)	100	mg/kg	2	ND	ND	ND
Lead (Pb)	1,000	mg/kg	2	ND	ND	ND
Mercury (Hg)	1,000	mg/kg	2	ND	ND	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND	ND	ND
Sum of PBBs	1,000	mg/kg	-	ND	ND	ND
Monobromobiphenyl	-	mg/kg	5	ND	ND	ND
Dibromobiphenyl	-	mg/kg	5	ND	ND	ND
Tribromobiphenyl	-	mg/kg	5	ND	ND	ND
Tetrabromobiphenyl	-	mg/kg	5	ND	ND	ND
Pentabromobiphenyl	-	mg/kg	5	ND	ND	ND
Hexabromobiphenyl	-	mg/kg	5	ND	ND	ND
Heptabromobiphenyl	-	mg/kg	5	ND	ND	ND
Octabromobiphenyl	-	mg/kg	5	ND	ND	ND
Nonabromobiphenyl	-	mg/kg	5	ND	ND	ND
Decabromobiphenyl	-	mg/kg	5	ND	ND	ND
Sum of PBDEs	1,000	mg/kg	-	ND	ND	ND
Monobromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tribromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Octabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND	ND	ND

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Test Item(s)	Limit	Unit	MDL	019	020	021
Decabromodiphenyl ether	-	mg/kg	5	ND	ND	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	ND	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	ND	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	ND	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	022
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	8	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
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
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND

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(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25

Red Phosphor

Test Method : SGS In-house method (GZTC CHEM-TOP-215-01), analysis was performed by PY-GC/MS& ICP-OES.

Test Item(s)	Unit	MDL	*013*	*014*	*015*
Red phosphorus	mg/kg	500	ND	ND	ND

Test Item(s)	Unit	MDL	*016*	*017*	*018*
Red phosphorus	mg/kg	500	ND	ND	ND

Test Item(s)	Unit	MDL	*019*	*020*	*021*
Red phosphorus	mg/kg	500	ND	ND	ND

Test Item(s)	Unit	MDL	*022*
Red phosphorus	mg/kg	500	ND

Hexabromocyclododecane (HBCDD)

Test Method : With reference to IEC 62321:2008, analysis was performed by GC-MS.

Test Item(s)	Unit	MDL	*013*	*014*	*015*
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND	ND	ND

Test Item(s)	Unit	MDL	*016*	*017*	*018*
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND	ND	ND

Test Item(s)	Unit	MDL	*019*	*020*	*021*
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND	ND	ND

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Test Item(s)	Unit	MDL	022
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Phthalate(s)

Test Method : With reference to IEC62321-8:2017, analyzed by GC-MS.

Test Item(s)	CAS NO.	Unit	MDL	013
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.005	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.005	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.005	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%(w/w)	0.005	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich (DIHP)	71888-89-6	%(w/w)	0.005	ND
Diisopentyl Phthalate (DIPP)	605-50-5	%(w/w)	0.005	ND
n-pentyl Isopentyl Phthalate (nPIPP)	776297-69-9	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP)	84777-06-0	%(w/w)	0.005	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.005	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.005	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.005	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.005	ND

Test Item(s)	CAS NO.	Unit	MDL	014
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.005	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.005	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.005	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%(w/w)	0.005	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich (DIHP)	71888-89-6	%(w/w)	0.005	ND

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Test Item(s)	CAS NO.	Unit	MDL	014
Diisopentyl Phthalate (DIPP)	605-50-5	%(w/w)	0.005	ND
n-pentyl Isopentyl Phthalate (nPIPP)	776297-69-9	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP)	84777-06-0	%(w/w)	0.005	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.005	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.005	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.005	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.005	ND

Test Item(s)	CAS NO.	Unit	MDL	015
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.005	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.005	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.005	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%(w/w)	0.005	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich (DIHP)	71888-89-6	%(w/w)	0.005	ND
Diisopentyl Phthalate (DIPP)	605-50-5	%(w/w)	0.005	ND
n-pentyl Isopentyl Phthalate (nPIPP)	776297-69-9	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP)	84777-06-0	%(w/w)	0.005	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.005	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.005	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.005	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.005	ND

Test Item(s)	CAS NO.	Unit	MDL	016
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.005	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.005	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.005	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%(w/w)	0.005	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%(w/w)	0.005	ND

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Test Item(s)	CAS NO.	Unit	MDL	016
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich (DIHP)	71888-89-6	%(w/w)	0.005	ND
Diisopentyl Phthalate (DIPP)	605-50-5	%(w/w)	0.005	ND
n-pentyl Isopentyl Phthalate (nPIPP)	776297-69-9	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP)	84777-06-0	%(w/w)	0.005	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.005	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.005	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.005	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.005	ND

Test Item(s)	CAS NO.	Unit	MDL	017
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.005	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.005	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.005	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%(w/w)	0.005	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich (DIHP)	71888-89-6	%(w/w)	0.005	ND
Diisopentyl Phthalate (DIPP)	605-50-5	%(w/w)	0.005	ND
n-pentyl Isopentyl Phthalate (nPIPP)	776297-69-9	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP)	84777-06-0	%(w/w)	0.005	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.005	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.005	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.005	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.005	ND

Test Item(s)	CAS NO.	Unit	MDL	018
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.005	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.005	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.005	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%(w/w)	0.005	ND

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Test Item(s)	CAS NO.	Unit	MDL	018
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich (DIHP)	71888-89-6	%(w/w)	0.005	ND
Diisopentyl Phthalate (DIPP)	605-50-5	%(w/w)	0.005	ND
n-pentyl Isopentyl Phthalate (nPIPP)	776297-69-9	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP)	84777-06-0	%(w/w)	0.005	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.005	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.005	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.005	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.005	ND

Test Item(s)	CAS NO.	Unit	MDL	019
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.005	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.005	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.005	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%(w/w)	0.005	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich (DIHP)	71888-89-6	%(w/w)	0.005	ND
Diisopentyl Phthalate (DIPP)	605-50-5	%(w/w)	0.005	ND
n-pentyl Isopentyl Phthalate (nPIPP)	776297-69-9	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP)	84777-06-0	%(w/w)	0.005	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.005	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.005	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.005	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.005	ND

Test Item(s)	CAS NO.	Unit	MDL	020
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.005	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.005	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.005	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.005	ND

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Test Item(s)	CAS NO.	Unit	MDL	020
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%(w/w)	0.005	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich (DIHP)	71888-89-6	%(w/w)	0.005	ND
Diisopentyl Phthalate (DIPP)	605-50-5	%(w/w)	0.005	ND
n-pentyl Isopentyl Phthalate (nPIPP)	776297-69-9	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP)	84777-06-0	%(w/w)	0.005	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.005	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.005	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.005	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.005	ND

Test Item(s)	CAS NO.	Unit	MDL	021
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.005	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.005	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.005	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%(w/w)	0.005	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich (DIHP)	71888-89-6	%(w/w)	0.005	ND
Diisopentyl Phthalate (DIPP)	605-50-5	%(w/w)	0.005	ND
n-pentyl Isopentyl Phthalate (nPIPP)	776297-69-9	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP)	84777-06-0	%(w/w)	0.005	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.005	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.005	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.005	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.005	ND

Test Item(s)	CAS NO.	Unit	MDL	022
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.005	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.005	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.005	ND

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Test Item(s)	CAS NO.	Unit	MDL	022
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	%(w/w)	0.005	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich (DIHP)	71888-89-6	%(w/w)	0.005	ND
Diisopentyl Phthalate (DIPP)	605-50-5	%(w/w)	0.005	ND
n-pentyl Isopentyl Phthalate (nPIPP)	776297-69-9	%(w/w)	0.005	ND
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP)	84777-06-0	%(w/w)	0.005	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.005	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.005	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.005	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.005	ND

PFOS (Perfluorooctane Sulfonates) and PFOA (Perfluorooctanoic Acid)

Test Method : SGS In-house method (GZTC CHEM-TOP-062-04, With reference to US EPA Method 3550C:2007), analysis was performed by LC-MS.

Test Item(s)	CAS NO.	Unit	MDL	013
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	10	ND
Perfluorooctane Sulfonates (PFOS)^	-	mg/kg	10	ND

Test Item(s)	CAS NO.	Unit	MDL	014
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	10	ND
Perfluorooctane Sulfonates (PFOS)^	-	mg/kg	10	ND

Test Item(s)	CAS NO.	Unit	MDL	015
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	10	ND
Perfluorooctane Sulfonates (PFOS)^	-	mg/kg	10	ND

Test Item(s)	CAS NO.	Unit	MDL	016
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	10	ND
Perfluorooctane Sulfonates (PFOS)^	-	mg/kg	10	ND

Test Item(s)	CAS NO.	Unit	MDL	017
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	10	ND
Perfluorooctane Sulfonates (PFOS)^	-	mg/kg	10	ND

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Test Item(s)	CAS NO.	Unit	MDL	018
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	10	ND
Perfluorooctane Sulfonates (PFOS)^	-	mg/kg	10	ND

Test Item(s)	CAS NO.	Unit	MDL	019
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	10	ND
Perfluorooctane Sulfonates (PFOS)^	-	mg/kg	10	ND

Test Item(s)	CAS NO.	Unit	MDL	020
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	10	ND
Perfluorooctane Sulfonates (PFOS)^	-	mg/kg	10	ND

Test Item(s)	CAS NO.	Unit	MDL	021
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	10	ND
Perfluorooctane Sulfonates (PFOS)^	-	mg/kg	10	ND

Test Item(s)	CAS NO.	Unit	MDL	022
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	10	ND
Perfluorooctane Sulfonates (PFOS)^	-	mg/kg	10	ND

Notes :

(1) For reference: commission regulation (EU) No 757/2010 amending regulation (EC) No 850/2004:
For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances or in preparations.
For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS in semi-finished products or articles, or parts thereof, if the concentration of PFOS is lower than 0,1 % by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is lower than 1µg /m2 of the coated material.
(2)^: PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.

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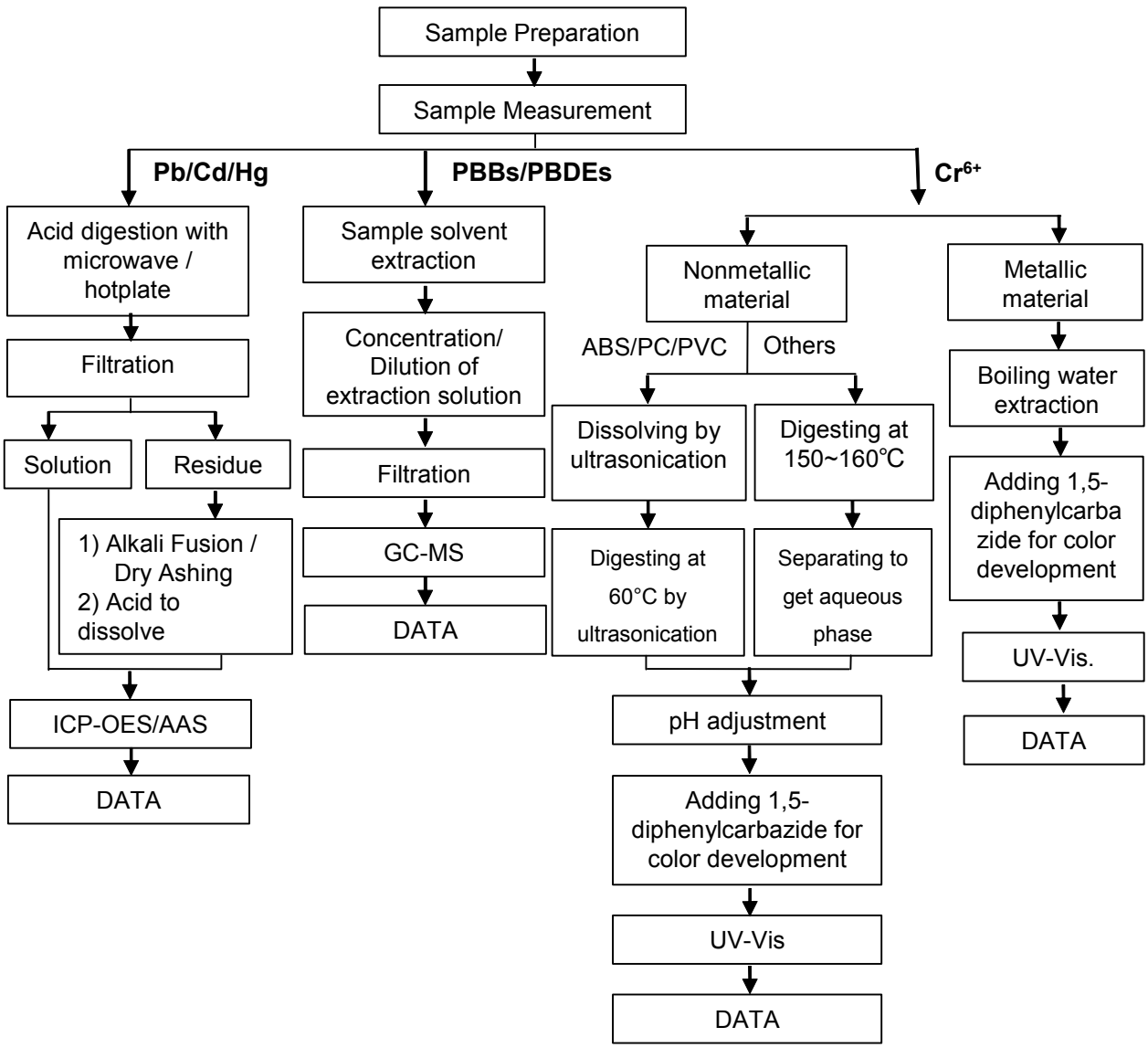
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Pb/Cd/Hg/Cr^{6+}/PBBs/PBDEs Testing Flow Chart

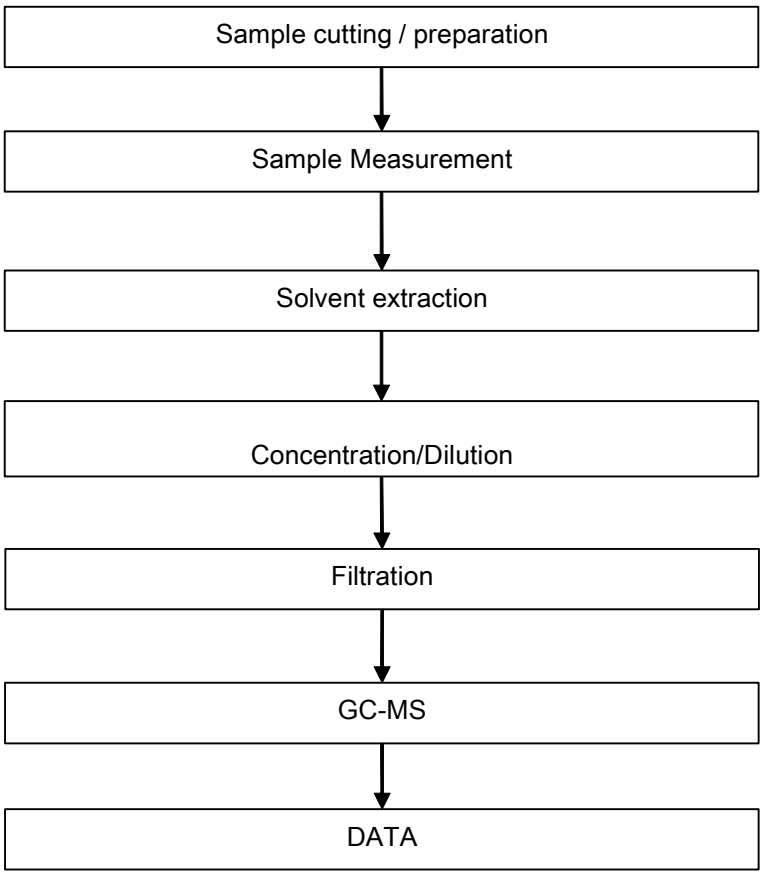
1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} and PBBs/PBDEs test method excluded).



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Phthalates Testing Flow Chart

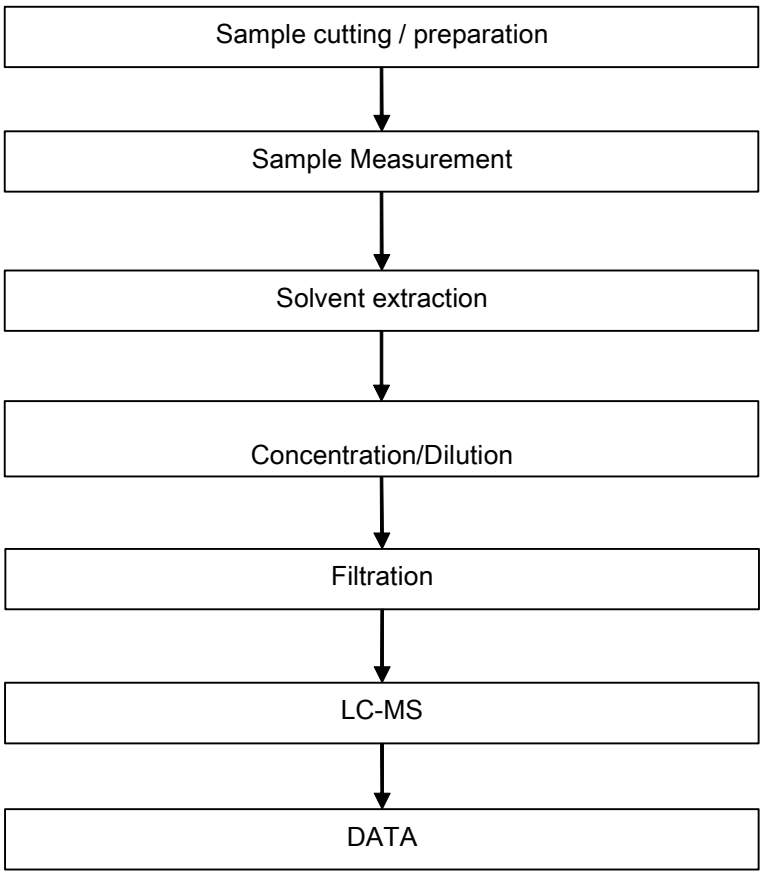


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PFOA / PFOS Testing Flow Chart

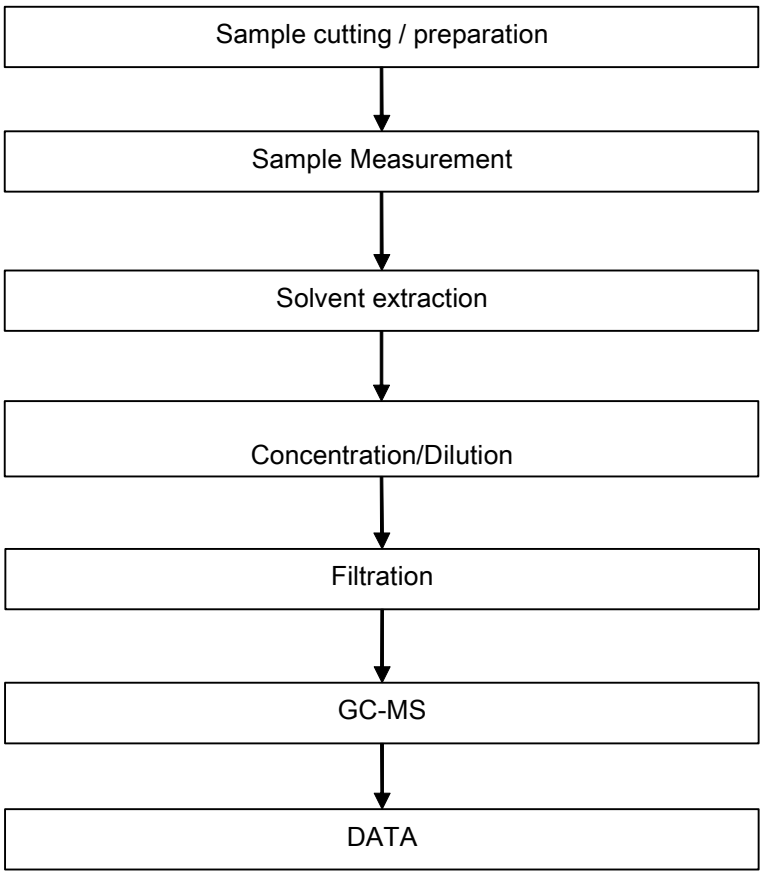


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HBCDD Testing Flow Chart



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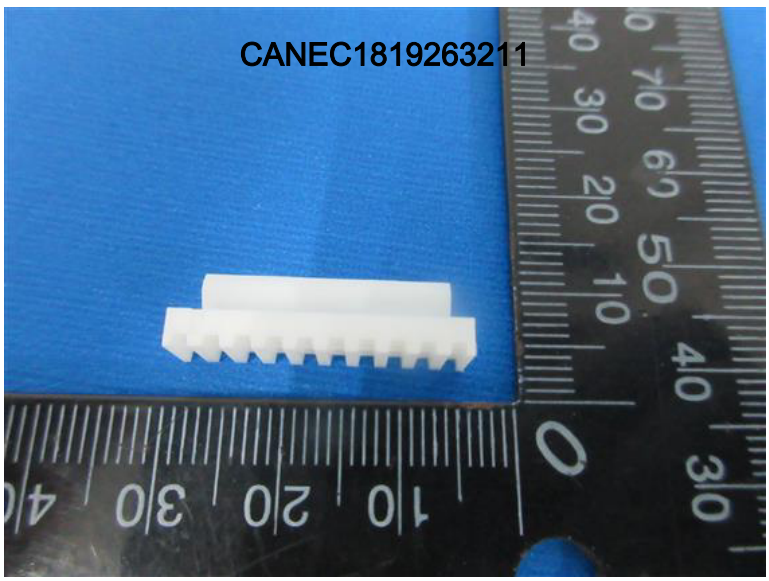
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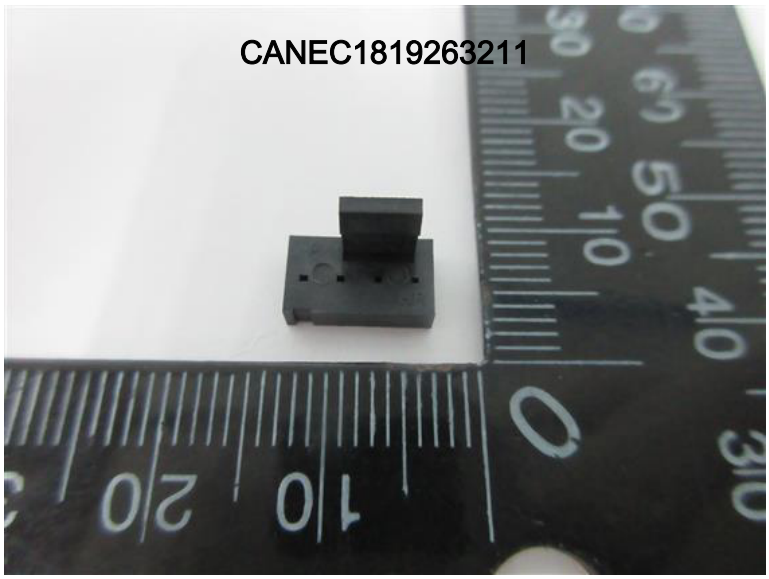
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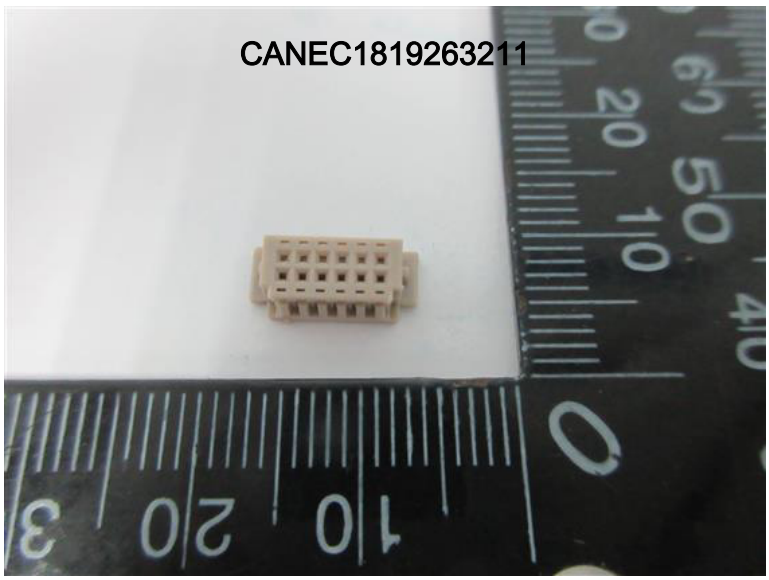
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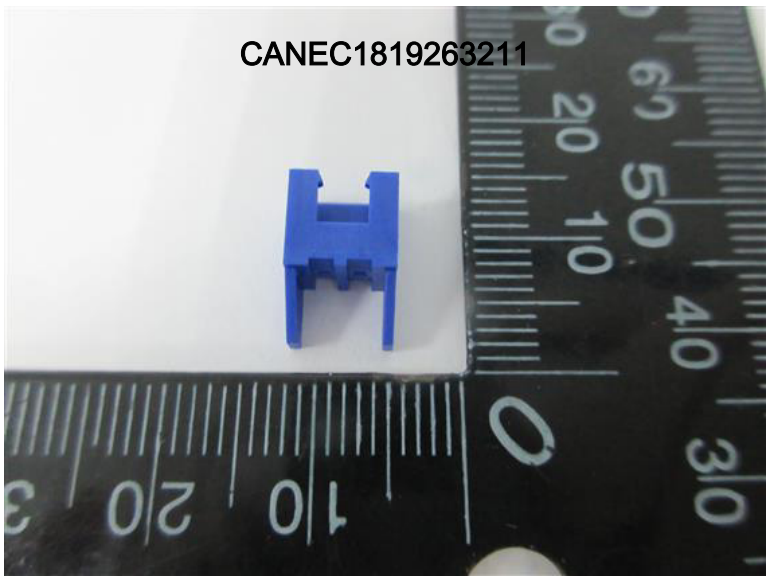
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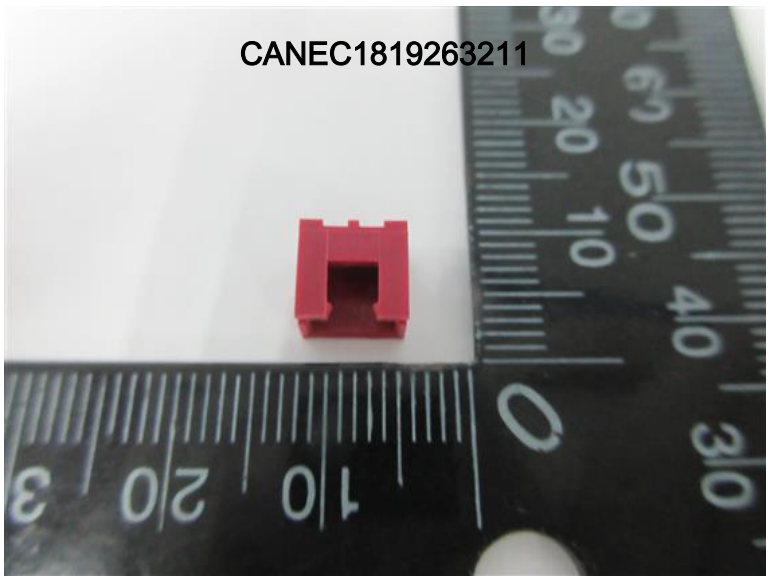
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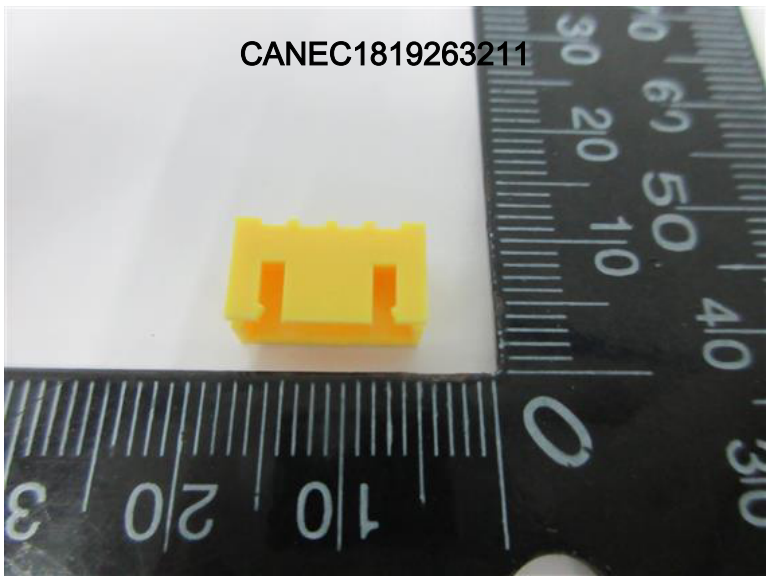
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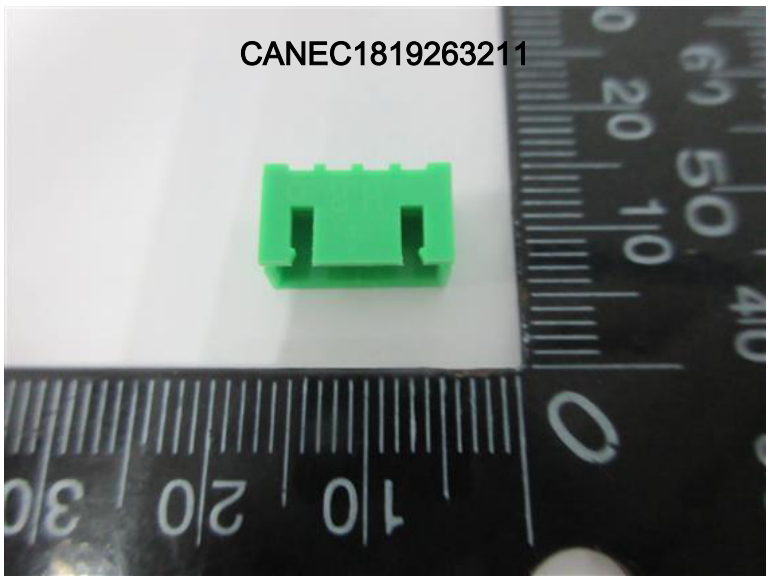
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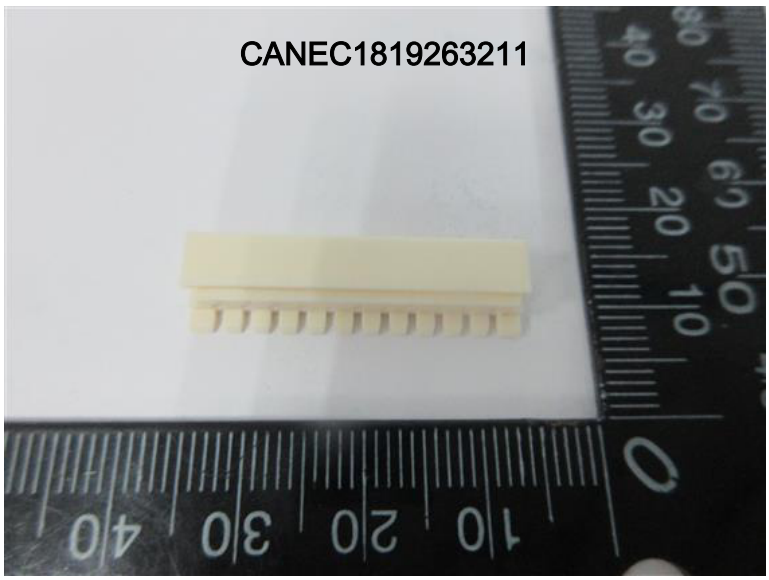
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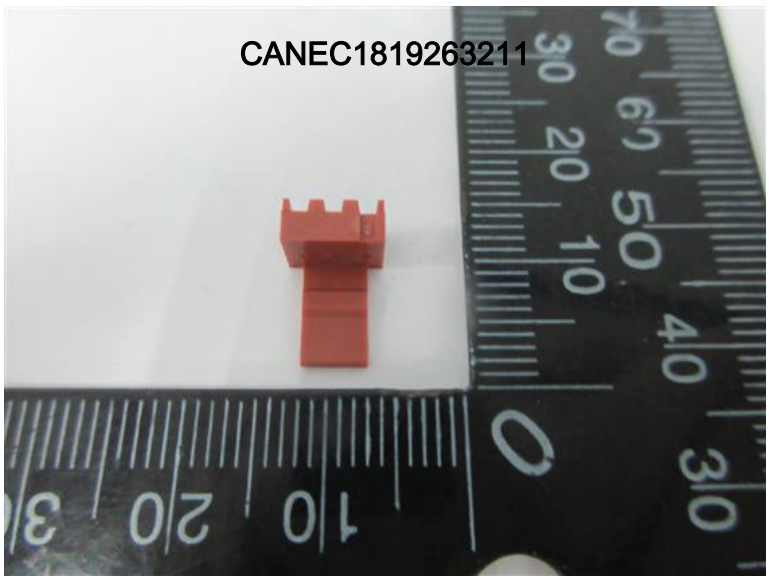
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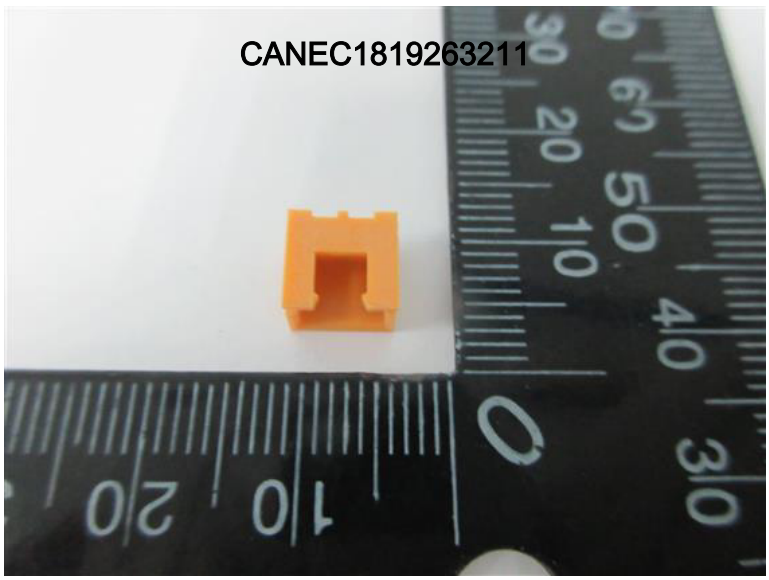
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CAN18-192632.021



CAN18-192632.022

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UL 1571 HOOK-UP WIRE
80℃ 30V PVC 電子線

UL Subject 758

UL FILE NO：E309338

▲說明：

- 導體使用單條或絞線最少至 50AWG 裸銅或鍍錫銅
- PVC 絕緣
- 額定溫度：80℃，額定電壓：30 Volts
- 使用標準厚度,易剝,截斷容易
- 可通過 UL 垂直型耐燃測試

Product Description:

- Tinned,annealed,stranded or Solid copper conductor,MIN,50AWG
- Color-coded PVC insulation
- Rated temperature: 80℃,Rated voltage: 30 Volts
- Uniform thickness of wire to ensure easy stripping and cutting
- Passed UL VW-1 vertical flame test

▲ 應用：

- 電子設備二次回路中內部連接用線。

Applications:

- Internal wiring of class 2circuits electronic epuipment

構造和電氣性能

Structure & electric properties



UL 1571	額 定 Range		導 體 Conducor		絕 緣 體 Insulation		公差值 Tolerance mm	最大導體阻抗 Maximum Conductor Resistance Ω/km	最小絕緣阻抗 Minimum Insulation Resistance MΩ/km	絕緣耐電壓 (VAC/min) Insulation Potential Strength
	溫度 Temp °C	電壓 Voltage V	線號 AWG	構成 No./mm	厚度 Thickness mm	外徑 O.D. mm				
多芯線 Stranded	80°C	30V	28	7/0.127	0.20	0.80	±0.05	248	15	500

UL 1571 HOOK-UP WIRE
80℃ 30V PVC 電子線

UL Subject 758 UL FILE NO：E309338

STYLE			UL 1571		CSA
RATING TEMP / VOLT			80℃/30V		
CONDUCTOR	SIZE		AWG	28	
	NUMBER		NO.	7	
	DIAMETER		MM	0.127	
	MIN.DIAMETER		MM	0.117	
	CROSS SEC AREA OF COND	AVG.	CM	253	
		MIN		248	
	LAY OF BUNCH		INCH	0.50	
	MAX.RESISTANCE		Ω/KM	248	
INSULATION	O.D.(±0.05)		MM	0.80	
	INSULATION THICKNESS	AVG	MIL	8	
		MIN		6	
	JACKET THICKNESS	AVG	MIL		
		MI			
ADHESIVE TEST			KG		
INSULATION RESISTANCE			MΩ/KM	15	
SPARK TEST			KV	2	
ELONGATION			%	100	
TENSIL STRENGTH			PSI	1500	
ELO.(AFTER AGING)			%	OF UNAGED 65	
TEN.ST.(AFTER AGING)			%	OF UNAGED 70	
AGING TEMP TIME				113℃/168HRS	
OIL LMMERSION TEST					
FIAME TEST				VW-1	
HEAT SHOCK TEST				121℃/1HR 1.60MM MANDREL	
DEFORMATION TEST				113℃/1HR 50%	
COLD BEND TEST				-10℃/1HR 0.4MM MANDREL	
INSULATION POTENTIALST				500VAC/MIN	

印 字 內 容：c AWM 1571 VW-1 80°C 30V E309338 （28）AWG KAI TAT CO -LF-

ONLINE CERTIFICATIONS DIRECTORY

AVLV2.E309338
Appliance Wiring Material - Component

Page Bottom

Appliance Wiring Material - Component

See General Information for Appliance Wiring Material - Component

KAI TAT INDUSTRIES CO E309338
ROOM 615, 6/F1
HOLLYWOOD PLAZA
610 NATHAN RD
KOWLOON, HONG KONG

Table of Recognized Styles						
Single-conductor, thermoplastic insulation.						
1007	1164	1331	1533	1709	1901	10368
1015	1185	1332	1571	1710	10064	10369
1061	1213	1430	1617	1726	10109	
1095	1330	1431	1672	1887	10362	
Multiple-conductor, thermoplastic insulation.						
2468	2547	20276	21016			
Single-conductor, thermoset insulation.						
3173	3266	3289	3343	3386	3463	
3196	3271	3302	3384	3398	3464	
3265	3272	3321	3385	3415		

Marking: Company name, voltage rating, temperature rating, conductor size, conductor material if other than copper, and use.
Last Updated on 2010-03-11

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Test Report

No. CANEC1912669709 Date: 09 Jul 2019

KAI TAT INDUSTRIES COMPANY

NO.430,CHANG FENG ROAD,CHANG ZHEN,GUANGMING NEW AREA,SHENZHEN,GUANGDONG CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : PVC Electronic wire(Red)

SGS Job No. :	CP19-034853 - SZ
Model No. :	UL1007Wire
Client Ref. Info. :	1007、1061、1095、1571、20276、2468、1015、 1617、1672、1185、1533、2464、2547、2854、 1430、1431、2651、1569、3443and FEIBIAO PE LINE、CAR PVC LINE and rehearsal and line
Date of Sample Received :	01 Jul 2019
Testing Period :	01 Jul 2019 - 09 Jul 2019
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 selected part of submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Zmguan

Zm guan
Approved Signatory

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

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-126697.009	Red jacket w/black 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 (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

Test Item(s)	Limit	Unit	MDL	*009*
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	8	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
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND

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Test Item(s)	Limit	Unit	MDL	*009*
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
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25

Hexabromocyclododecane (HBCDD)

Test Method : With reference to IEC 62321:2008, analysis was performed by GC-MS.

Test Item(s)	Unit	MDL	*009*
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

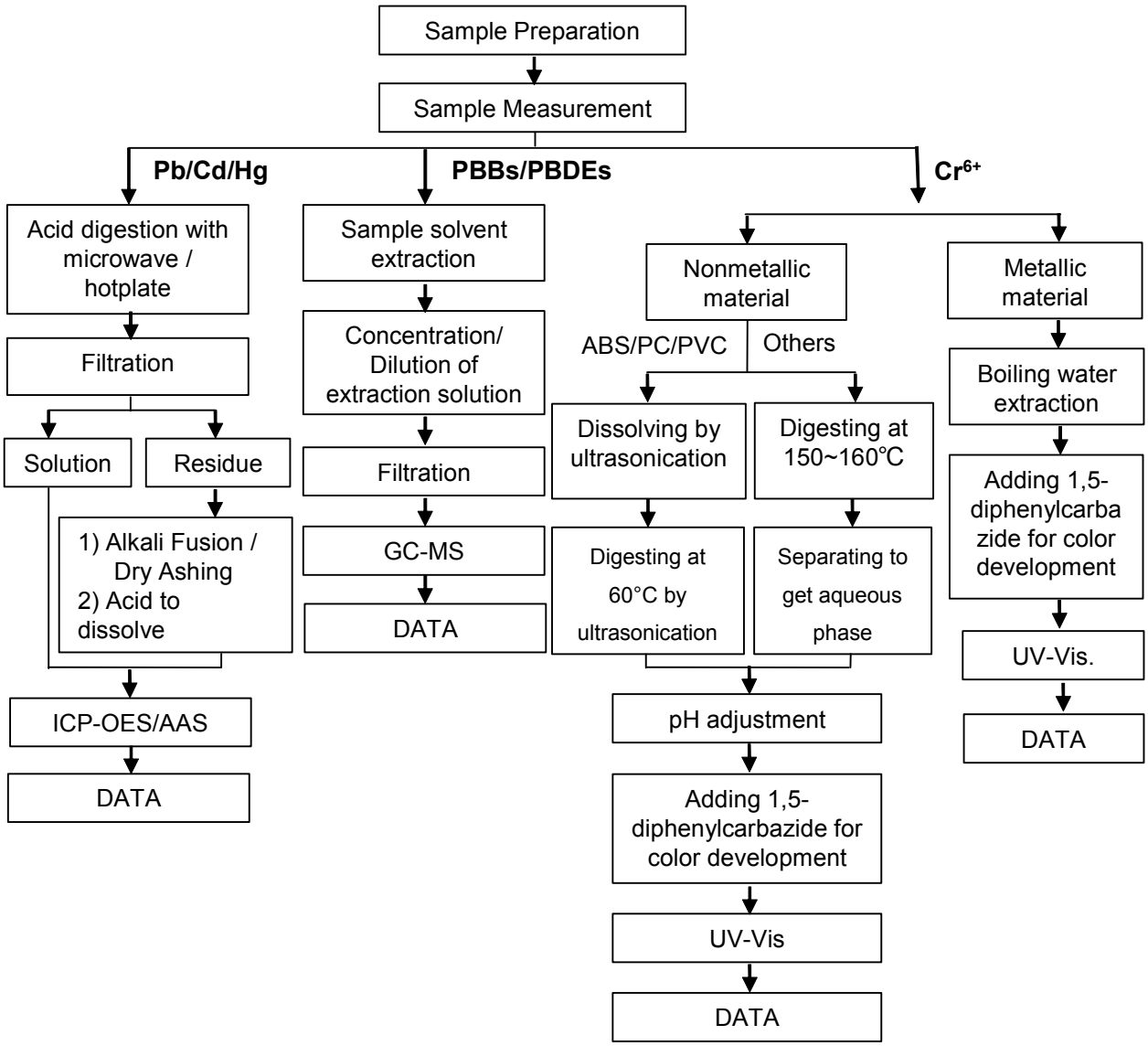
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Pb/Cd/Hg/Cr^{6+}/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} and PBBs/PBDEs test method excluded).

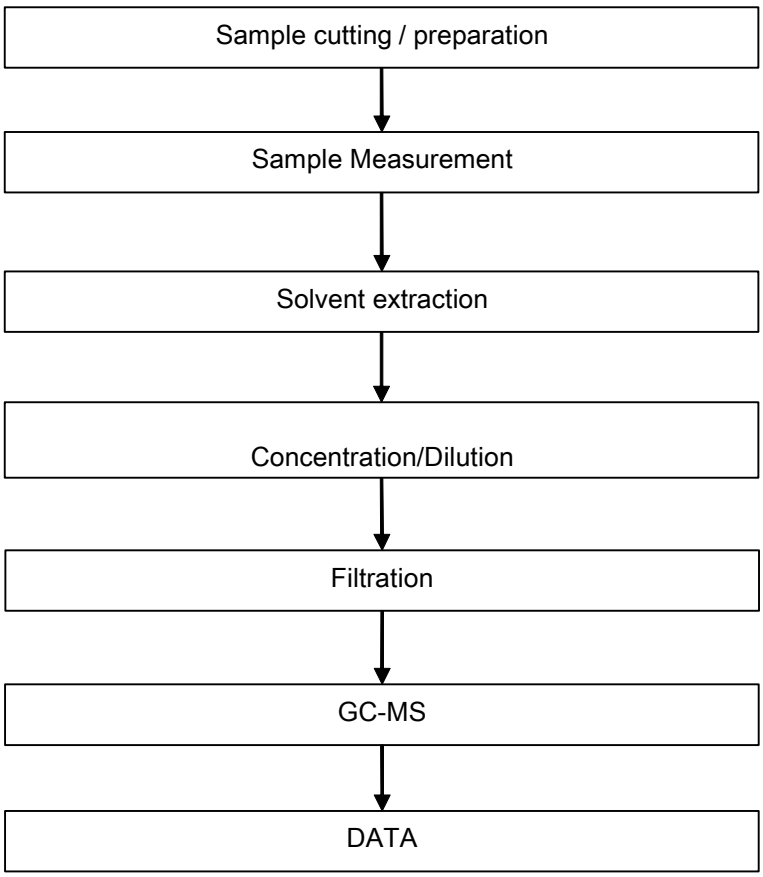


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Phthalates Testing Flow Chart

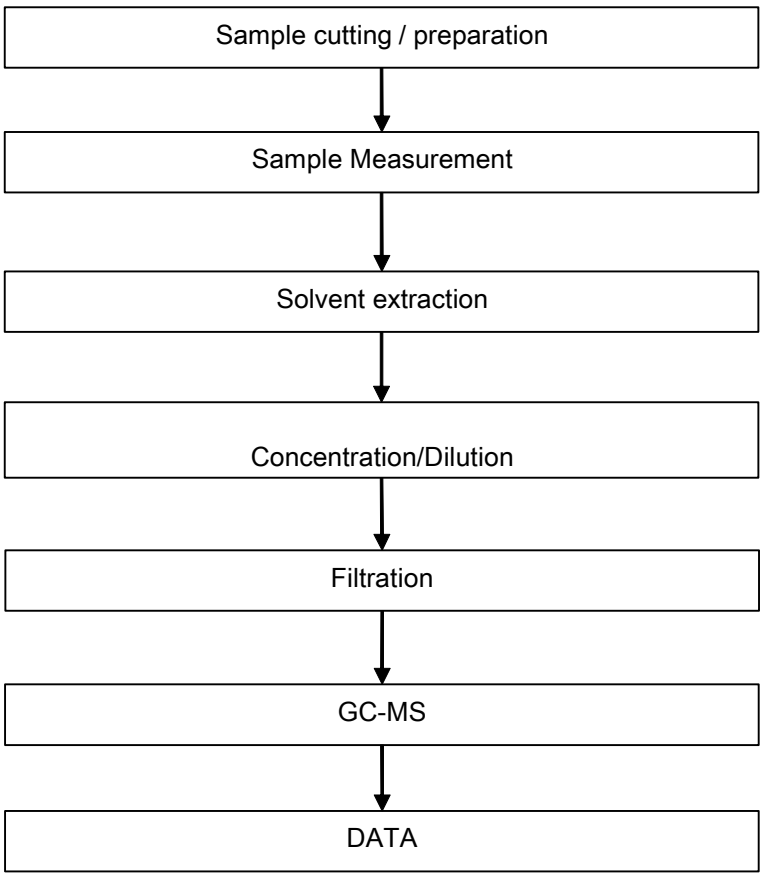


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HBCDD Testing Flow Chart



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Sample photo:



CAN19-126697.009

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Test Report

KAI TAT INDUSTRIES COMPANY

NO.430,CHANG FENG ROAD,CHANG ZHEN,GUANGMING NEW AREA,SHENZHEN,GUANGDONG CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : PVC Electronic wire(Black)

SGS Job No. :	CP19-034853 - SZ
Model No. :	UL1007Wire
Client Ref. Info. :	1007、1061、1095、1571、20276、2468、1015、1617、1672、1185、1533、2464、2547、2854、1430、1431、2651、1569、3443and FEIBIAO PE LINE、CAR PVC LINE and rehearsal and line
Date of Sample Received :	01 Jul 2019
Testing Period :	01 Jul 2019 - 09 Jul 2019
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 selected part of submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Zm guan
Approved Signatory

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

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-126697.010	Black jacket

Remarks :

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

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

Test Item(s)	Limit	Unit	MDL	*010*
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	8	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
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND

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Test Item(s)	Limit	Unit	MDL	010
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
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25

Hexabromocyclododecane (HBCDD)

Test Method : With reference to IEC 62321:2008, analysis was performed by GC-MS.

Test Item(s)	Unit	MDL	010
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

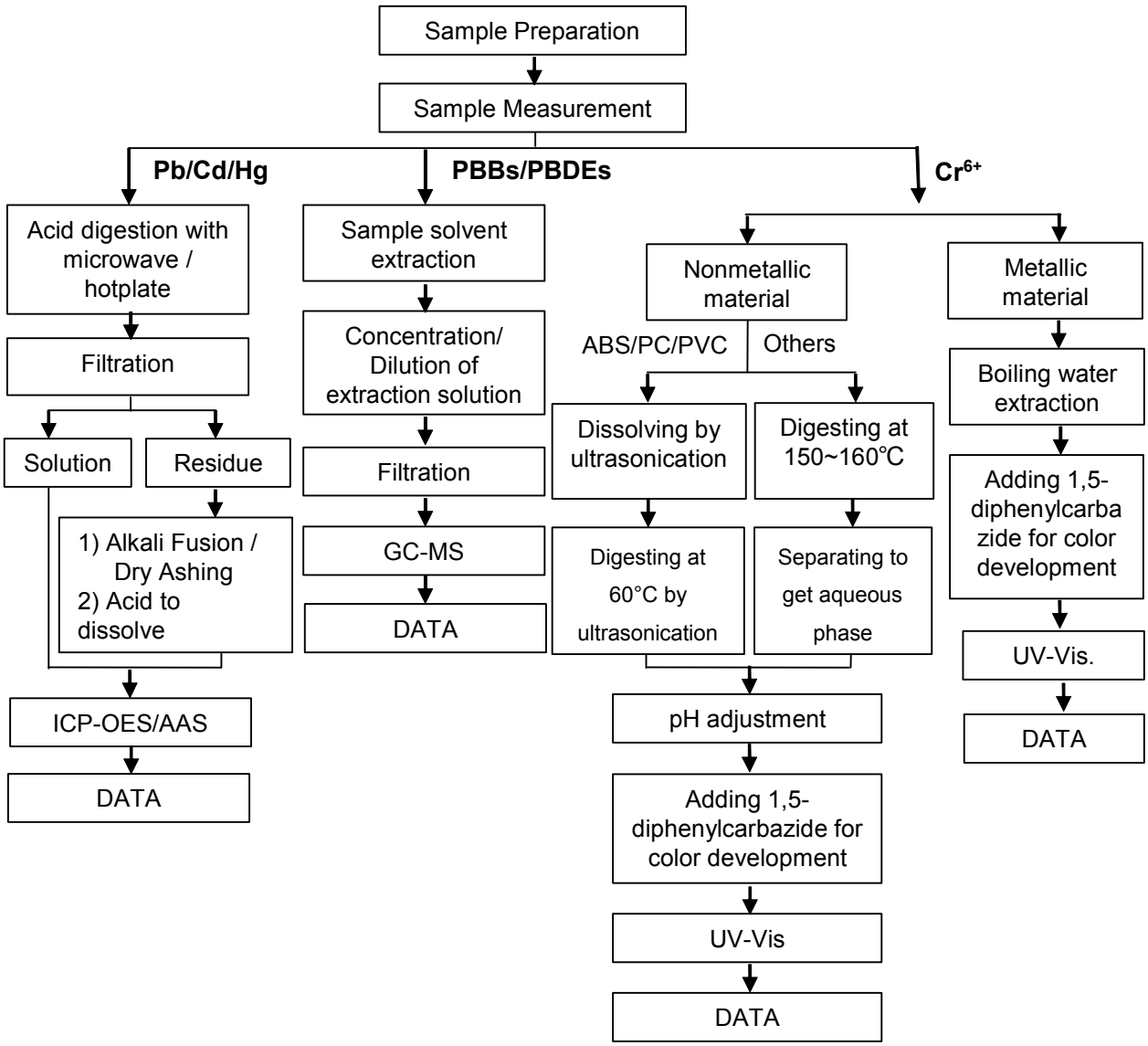
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Pb/Cd/Hg/Cr^{6+}/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} and PBBs/PBDEs test method excluded).

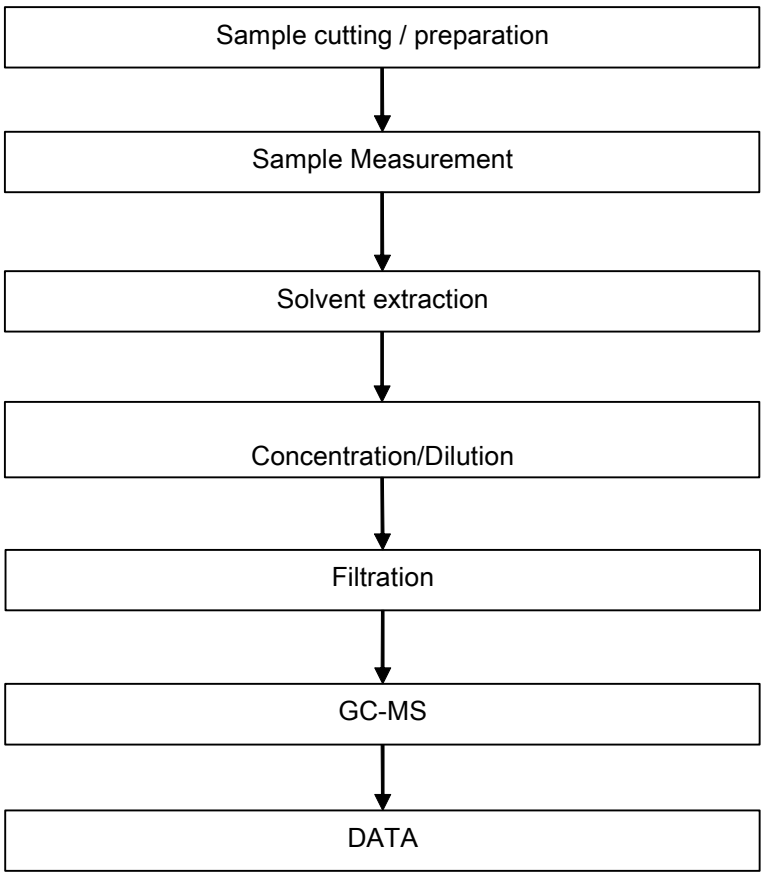


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Phthalates Testing Flow Chart

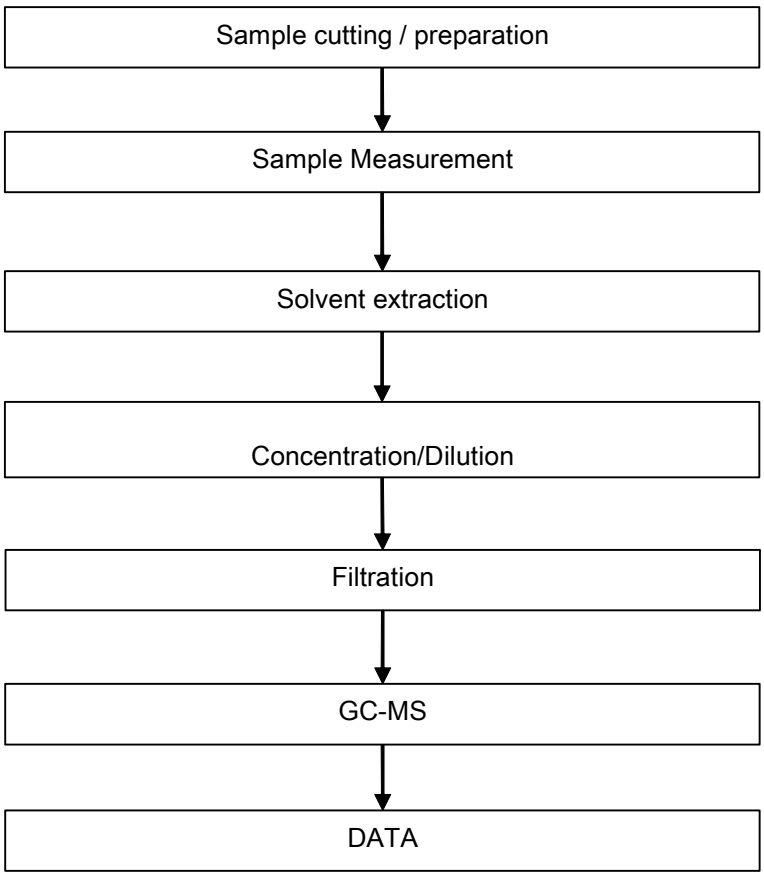


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HBCDD Testing Flow Chart



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Sample photo:



CAN19-126697.010

SGS authenticate the photo on original report only

*** End of Report ***

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Test Report

DONGGUAN LUCKY FLY CONDUCTOR CO.,LTD

QIAO ZI REGION CHANG PING TOWN DONG GUAN CITY GUANG DONG PROVINCE
CHINA

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

SGS Job No. :	CP19-011773 - GZ
Date of Sample Received :	15 Mar 2019
Testing Period :	15 Mar 2019 - 21 Mar 2019
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 sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Violet Shi

Violet,Shi
Approved Signatory

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

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-040324.002	Silvery plated metal wire

Remarks :

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

Test Item(s)	Limit	Unit	MDL	*002*
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	5
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▾	-	μg/cm²	0.10	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
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND

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Test Item(s)	Limit	Unit	MDL	*002*
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
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series
http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 μg/cm². The sample coating is considered to contain CrVI

b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 μg/cm²). The coating is considered a non-CrVI based coating

c. The result between 0.10 μg/cm² and 0.13 μg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

Elementary Analysis

Test Method : SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method 3050B:1996), analysis was performed by ICP-OES.

Test Item(s)	Unit	MDL	*002*
Beryllium (Be)	mg/kg	5	ND

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

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Test Item(s)	CAS NO.	Unit	MDL	002
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Sum of 7 PAHs Acenaphthylene. Acenaphthene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	mg/kg	-	ND
Sum of 18 PAHs	-	mg/kg	-	ND

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AfPS (German commission for Product Safety) : GS PAHs requirements

Parameter	Category 1	Category 2		Category 3	
	Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).	Materials not falling under category 1 with foreseeable contact to skin for longer than 30 s (long-term skin) or frequent contact.		Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 s (short-term skin contact).	
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG
Benzo(a)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene Mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(l,2,3-cd)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Acenaphthylene, Acenaphthene, fluorene,phenanthrene , pyrene, anthracene, fluoranthene, mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene, mg/kg	< 1	< 2		< 10	
Sum of 18 PAHs	<1	< 5	< 10	< 20	< 50

PFOS (Perfluorooctane sulfonates)

Test Method : With reference to CEN/TS15968:2010, analysis was performed by LC-MS.

Test Item(s)	CAS NO.	Unit	MDL	002
Perfluorooctane Sulfonates (PFOS)^	-	mg/kg	10	ND

Notes :

(1) ^ PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide,

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N-Methylperfluorooctane sulfonamidoethanol and N-Ethylperfluorooctane sulfonamidoethanol.

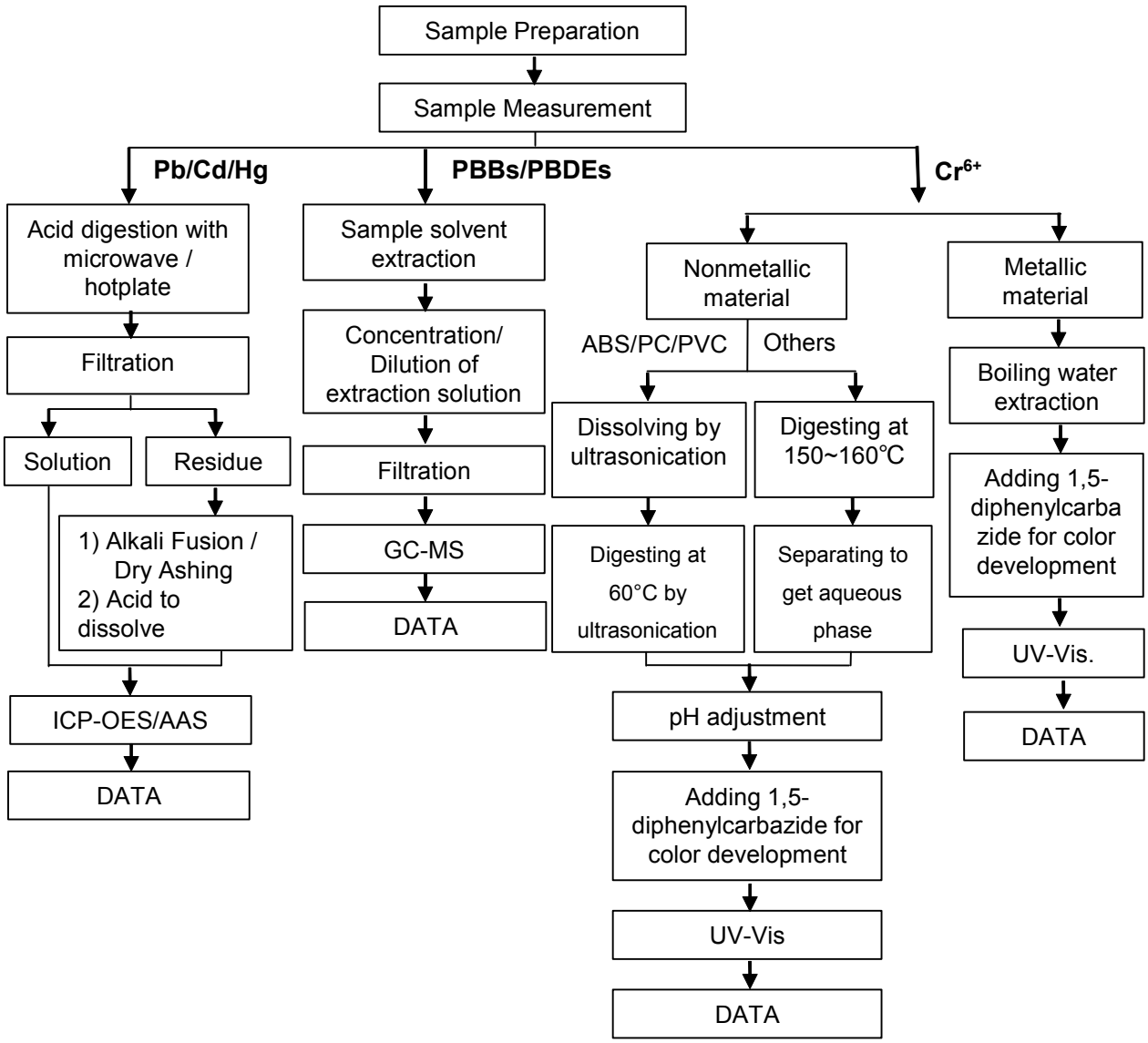
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Pb/Cd/Hg/Cr^{6+}/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} and PBBs/PBDEs test method excluded).

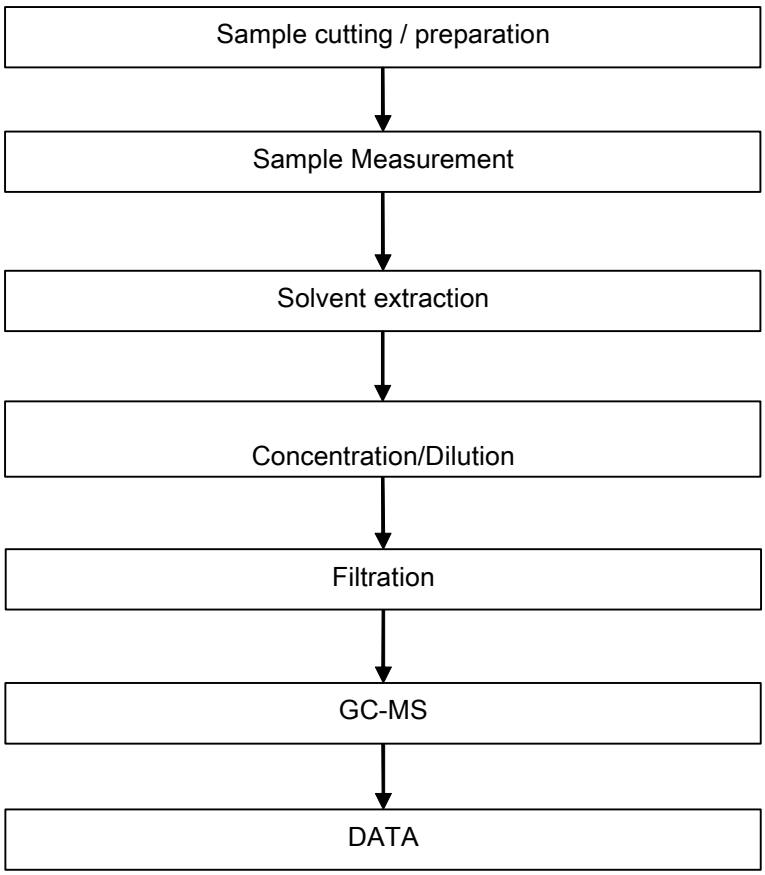


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Phthalates Testing Flow Chart

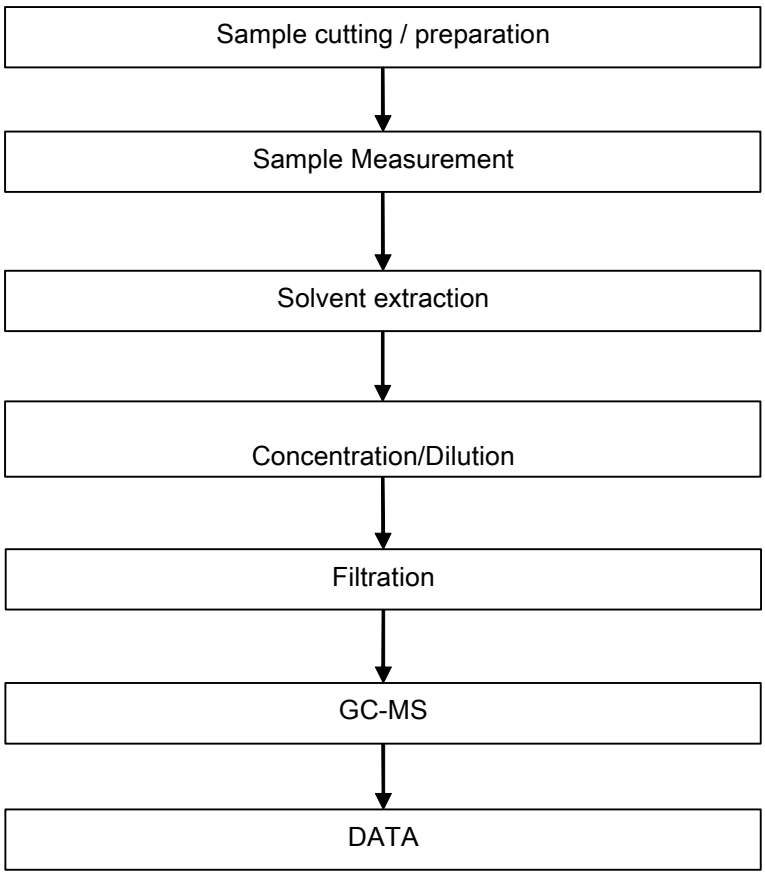


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PAHs Testing Flow Chart

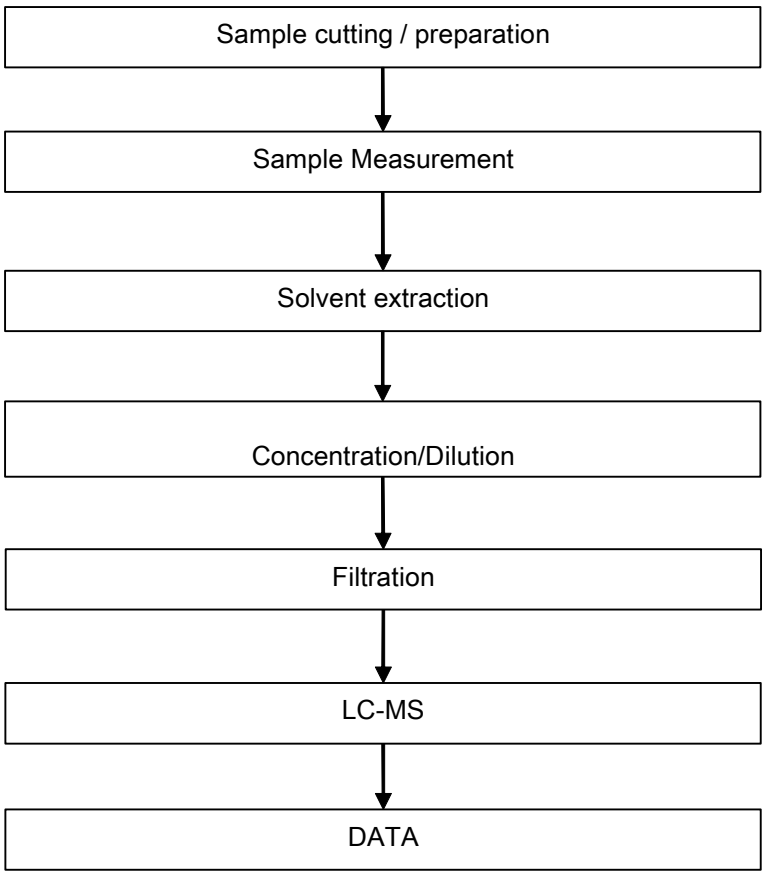


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PFOA / PFOS Testing Flow Chart

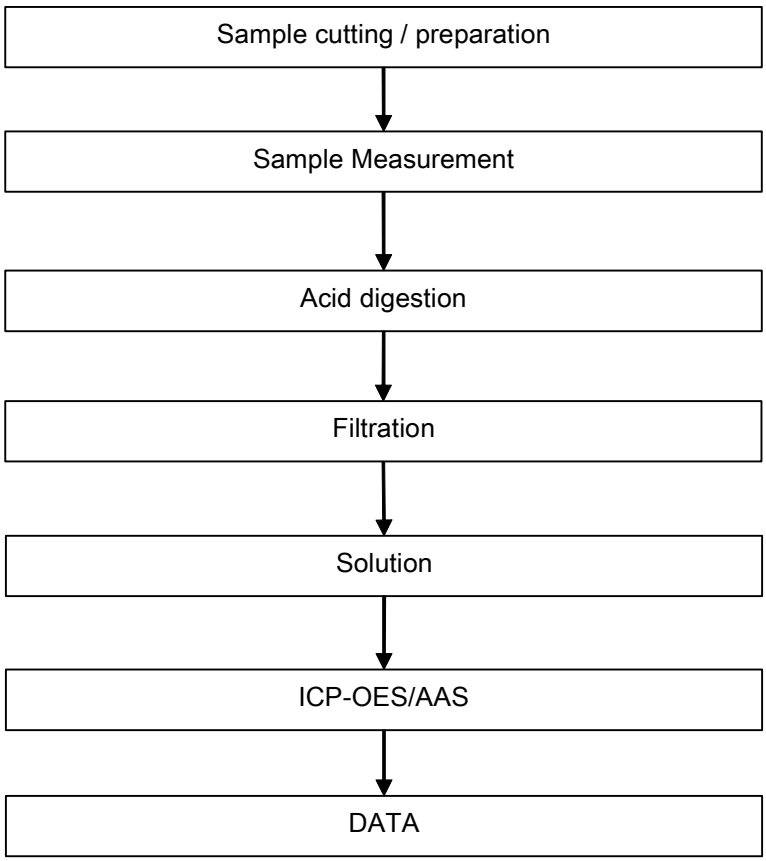


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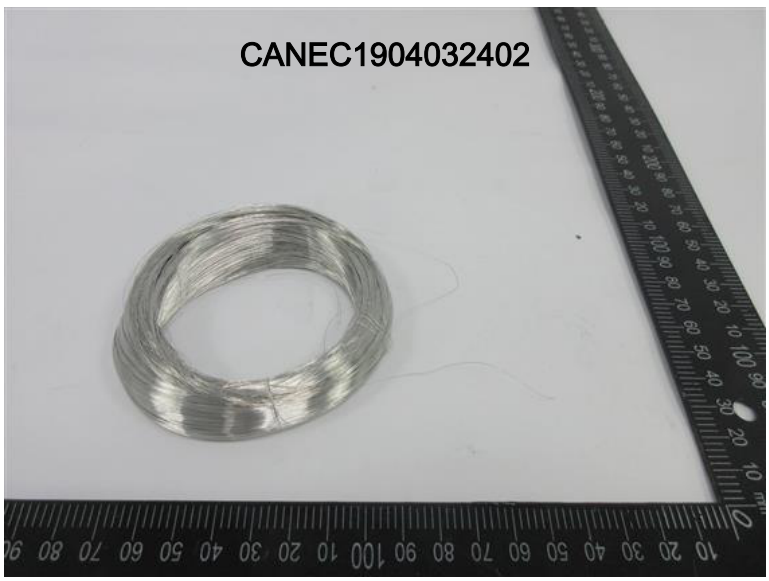
Elementary Testing Flow Chart



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