

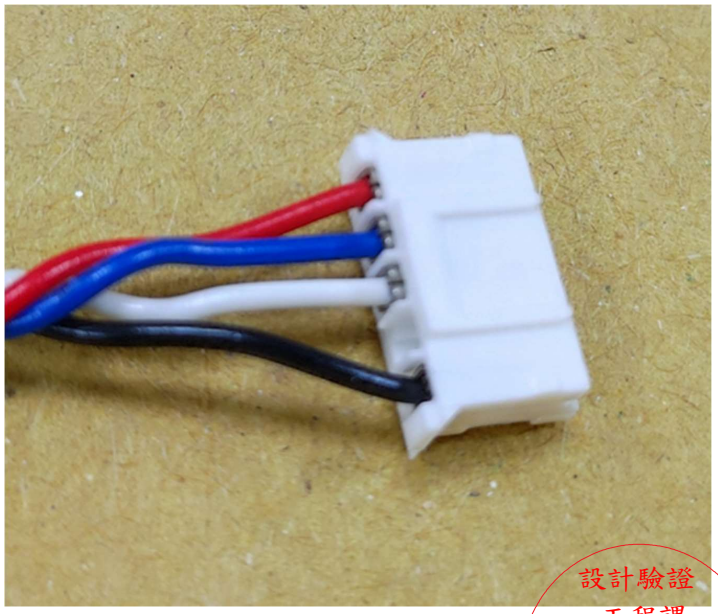

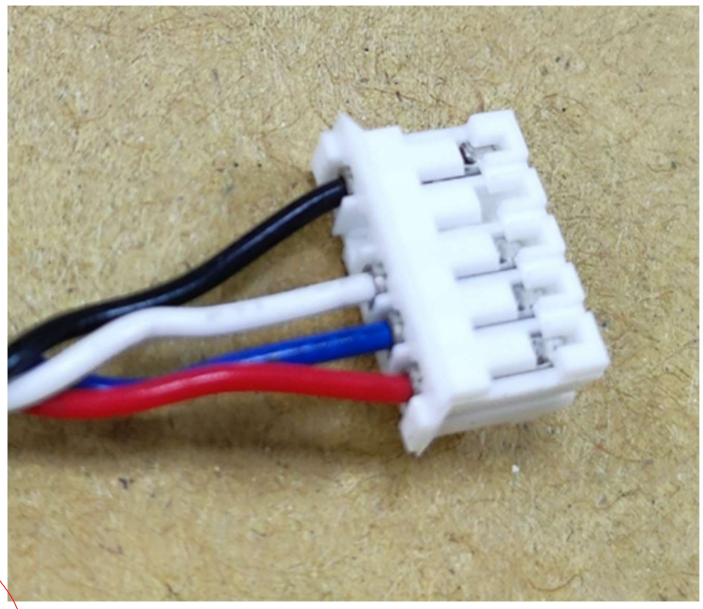

設計驗證
工程課
2023.10.11
發行
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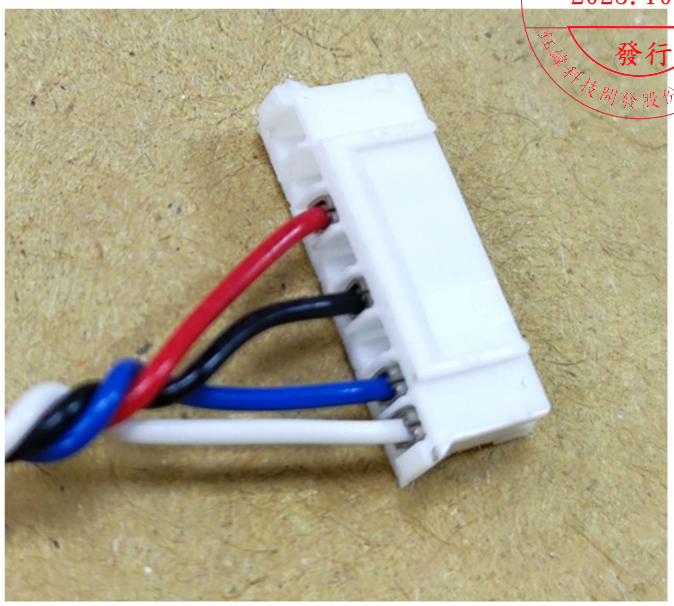
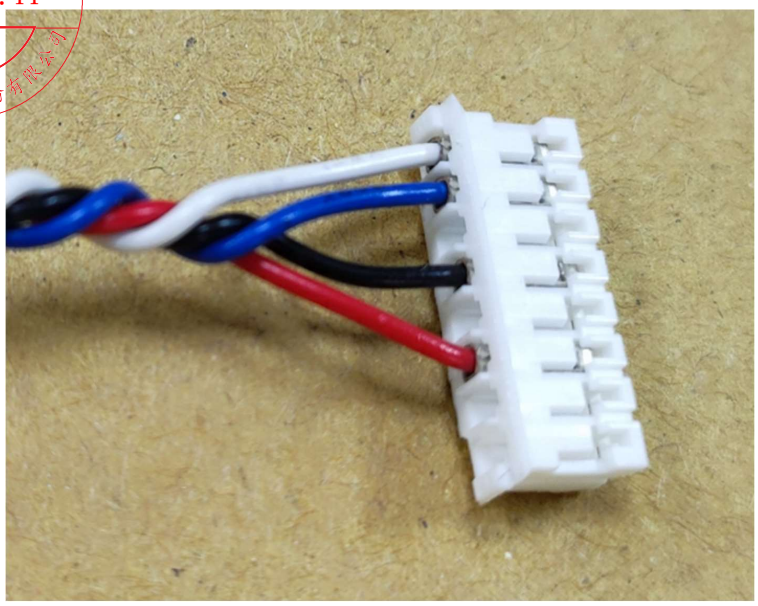




承　認　書

SPECIFICATION FOR APPROVAL

客　　戶 MESSRS：鈺緯科技開發股份有限公司

日　　期 DATE：2023/10/11

品　　名 PART NAME：DI12092201

物料代號 PART NO.：3KH00023602 (K1161)

設計驗證
工程課
2023.10.11
發行
鈺緯科技開發股份有限公司

福盈電子有限公司

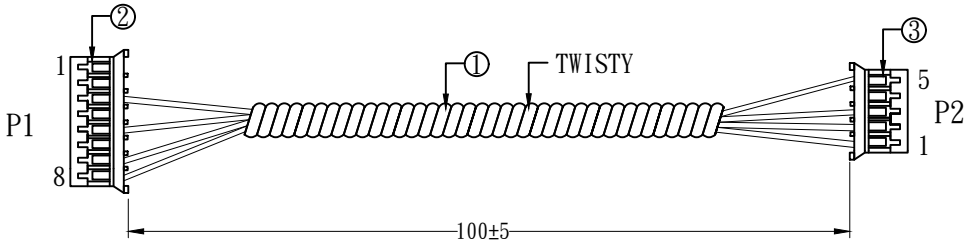
東莞塘廈福盈電子廠

總公司：台北市內湖區成功路四段 223 巷 15 弄 8 號

TEL：(02) 2790-7366　　FAX：(02) 2793-1393

中國廠：東莞市塘廈鎮宏業北十三路 188 號 B 棟 4F

TEL：(0769) 8791-0131~2　　FAX：(0769) 8791-0130



PIN ASSIGNMENT:

P1	COLOR	P2
3	RED	1
5	BLACK	5
7	BLUE	2
8	WHITE	3
OTHER:NC		

ITEM	MATERIAL	QTY
1	WIRE:UL1061#26 -LF- (REI HSING) COLOR:RED,BLACK,BLEU,WHITE	L=117mm EACH 1PCS
2	HOUSING:ECI-2020-08 限用	1PCS
	TERMINAL:ECI-2012P 限用	4PCS
3	HOUSING:ECI-2020-05 限用	1PCS
	TERMINAL:ECI-2012P 限用	4PCS

設計驗證
工程課
2023.10.11
發行
鈺緯科技開發股份有限公司

3		
2		
1		
項目	變更內容	日 期

制 作	審 核	核 准	比 例		客戶名稱：
余加民	余加民	王子豪	單 位	mm	鈺緯科技開發股份有限公司
福盈電子有限公司 FUW YNG ELECTRONICS CO.,LTD			版本/版次	A0	機種：
			頁 次	1/1	料號： 3KH00023602 (K1161)
			制作日期	2023.09.22	圖紙編號：DI12092201

UL 1061 HOOK-UP WIRE
80℃ 300V 半硬質低毒 PVC 電子線

UL Subject 758 UL FILE NO:E108485
CSA Standard CSA FILE NO:LL84687

說明:

- ●導體使用單條或絞線 30-16AWG 裸銅或鍍錫銅
- ●低毒半硬質 PVC 絕緣
- ●額定溫度:80℃，額定電壓:300Volts
- ●可通過 UL VW-1 及 CSA FT1，垂直型耐燃測試。

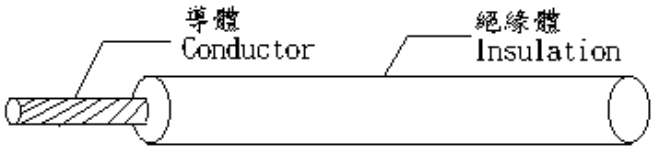
應用:

- ●電子設備內配線
- ●Internal wiring in electronic equipments

Product Description:

- ●Solid or stranded tinned or bare copper conductor,30-16 AWG
- ●Lead free SR-PVC insulation.
- ●Rated temperature: 80℃,Rated voltage:300volts.
- ●Uniform thickness of wire to ensure easy stripping and cutting
- ●Passes UL VW-1 & CSA FT1 vertical flame test.

構造及電氣性能
stucture & electric properties



UL 1061 CSA AWM IA	額定 Range		導體 Conductor		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 ℃	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℃	300V	32	7/0.080	0.23	0.75	±0.10	703	15	2000
			30	7/0.100	0.23	0.80		397		
			28	7/0.127	0.23	0.90		248.0		
			26	7/0.160	0.23	1.00		152.0		
			24	11/0.160	0.23	1.15		88.6		
			22	17/0.160	0.23	1.30		62.5		
			20	21/0.180	0.23	1.50		39.5		
			18	34/0.180	0.23	1.70		24.4		
			16	26/0.254	0.23	2.00		15.6		
先絞后鍍 Top-Coated (ATC)			28	7/0.127	0.23	0.90		248.0		
			26	7/0.160	0.23	1.00		152.0		
			24	7/0.200	0.23	1.15		88.6		
			22	7/0.254	0.23	1.30		62.5		
單芯線 Solid(TA)			28	1/0.320	0.23	0.85		245.0		
			26	1/0.404	0.23	0.90		155.0		
			24	1/0.511	0.23	1.10		92.4		
			22	1/0.643	0.23	1.15		60.1		

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REI HSING ELECTRIC WIRE AND CABLE CO.,LTD.

承 認 書

SPECIFICATION

型號 STYLE				UL 1061							CSA AWM I A
額定溫度/電壓 RATING TEMP./VOLT.				80℃/300V							80℃ 300V
導體 CONDUCTOR	線號 SIZE		AWG	28	26	24	22	20	18	16	SAME AS UL
	芯數 NUMBER		NO.	7	7	11	17	21	34	26	
	銅線直徑 DIAMETER		MM	0.127	0.160	0.160	0.160	0.180	0.180	0.254	
	最小銅線直徑 MIN.DIAMETER		MM	0.116	0.150	0.150	0.150	0.170	0.170	0.240	
	導體截面積 CROSS SEC AREA OF COND	AVG	C.M	159	253	404	640	1020	1620	2580	
		MIN		156	248	392	621	929	1571	2503	
	絞距 LAY OF BUNCH		MM	0.50	0.60	0.70	0.80	1.25-	2.00	2.00	
	最大電阻 MAX.RESISTANCE		Ω/KM	248	152	88.6	62.5	39.5	24.4	15.6	
絕緣體 INSULATION	完成外徑 O.D. (±0.10)		MM	0.90	1.00	1.15	1.30	1.50	1.70	2.00	
	絕緣體厚度 INSULATION THICKNESS	AVG	MIL	9							9
		MIN		7							7
	外被厚度 JACKET THICKNESS	AVG	MIL	/							/
		MIN		/							/
最小絕緣電阻 INSULATION ESISTANCE			MΩ/KM	15							15
火花試驗 SPARK TEST			KV	2							4
最小伸長率 ELONGATION			%	100 (SPEED 2inch/min)							100
最小抗張強度 TENSIL STRENGTH			PSI	3000							3000
最小老化後伸長率 LO.(AFTER AGING)			%	OF UNAGED 70							75
最小老化後抗張強度 TEN.ST.(AFTER AGING)			%	OF UNAGED 70							75
老化試驗溫度/條件 AGING TEMP./TIME				113℃/168HRS							121℃/168HRS
耐燃燒試驗 FIAME TEST				VW-1							FT1
高溫纏繞試驗 HEAT SHOCK TEST				121℃/1HR 1.60MM MANDREL							
加熱變形試驗 DEFORMATION TEST				113℃/1HR 500G(24,22,20AWG);250G(26,28AWG) 50%							
低溫纏繞試驗 COLD BEND TEST				-10℃/1HR 1.6MM MANDREL							
耐電壓試驗 INSULATION POTENTIALST				2KVAC/min							

MARK: AWM 1061 VW-1 80℃ 300V E108485-S ( )AWG REI HSING CSA AWM I A SR-PVC 80℃ 300V LL84687 ( )AWG FT1 -F- LF

ISSUED	1997-01-17	APPROVED	CHECKED	PREPARED
RRVISION	2003-02-27			蒲國榮

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REI HSING ELECTRIC WIRE AND CABLE CO.,LTD.

承 認 書

SPECIFICATION

型號 STYLE				UL 1061				CSA AWM I A
額定溫度/電壓 RATING TEMP./VOLT.				80℃/300V				80℃ 300V
導體 CONDUCTOR	線號 SIZE		AWG	28	26	24	22	SAME AS UL
	芯數 NUMBER		NO.	1	1	1	1	
	銅線直徑 DIAMETER		MM	0.320	0.404	0.511	0.643	
	最小銅線直徑 MIN.DIAMETER		MM	0.280	0.364	0.471	0.603	
	最大電阻 MAX.RESISTANCE		Ω/KM	245	155	92.4	60.1	
絕緣體 INSULATION	完成外徑 O.D. (±0.10)		MM	0.85	0.90	1.10	1.15	
	絕緣體厚度 INSULATION THICKNESS	AVG	MIL	9				9
		MIN		7				7
	外被厚度 JACKET THICKNESS	AVG	MIL	/				/
		MIN		/				/
最小絕緣電阻 INSULATION ESISTANCE			MΩ/KM	15				15
火花試驗 SPARK TEST			KV	2				4
最小伸長率 ELONGATION			%	100 (SPEED 2inch/min)				100
最小抗張強度 TENSIL STRENGTH			PSI	3000				3000
最小老化後伸長率 LO.(AFTER AGING)			%	OF UNAGED 70				75
最小老化後抗張強度 TEN.ST.(AFTER AGING)			%	OF UNAGED 70				75
老化試驗溫度/條件 AGING TEMP./TIME				113℃/168HRS				121℃/168HRS
耐燃燒試驗 FIAME TEST				VW-1				FT1
高溫纏繞試驗 HEAT SHOCK TEST				121℃/1HR 1.60MM MANDREL				
加熱變形試驗 DEFORMATION TEST				113℃/1HR 500G(24,22,20AWG);250G(26,28AWG) 50%				
低溫纏繞試驗 COLD BEND TEST				-10℃/1HR 1.6MM MANDREL				
耐電壓試驗 INSULATION POTENTIALST				2KVAC/min				

MARK: AWM 1061 VW-1 80℃ 300V E108485-S ( )AWG REI HSING CSA AWM I A SR-PVC 80℃ 300V LL84687 ( )AWG FT1 -F- LF

ISSUED	1997-01-17	APPROVED	CHECKED	PREPARED
RRVISION	2003-02-27			

UL Product iQ™

Style 1061 - APPLIANCE WIRING MATERIAL

APPLIANCE WIRING MATERIAL

Subj.758
Section 1
Page 1061

Issued: 1959-05-01
Revised: 2019-11-12

Style 1061 Single conductor with extruded insulation

RATING	80 deg C, 300 Vac, Horizontal flame.
CONDUCTOR	30 AWG - 14 AWG, solid or stranded
INSULATION	Extruded SRPVC, 9 mils minimum average thickness, 7 mils minimum thickness at any point.
STANDARD	Appliance Wiring Material UL 758.
MARKING	General.
USE	Internal Wiring in Electric Bookkeeping, Accounting, Time-Recording Machines, or Electronic Equipment if within a chassis or protected from mechanical injury.

The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

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Test Report

Report No. A2230291599104005

Company Name shown on Report	REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD
Address	NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY GUANGDONG CHINA

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

Sample Name	RED PVC LF INSULATED WIRE
Part No.	UL1015 LF WIRE UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674, 1500,1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,1430,1431, 3443,3610,2468,2464,2444,20080,2555,2476,2697,2733,2562,2096,1533,2547,20005, 20276,2854,2851,1185,10070,10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK, H05V2-U,H05V2-K,AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90) 52(RVV)53(RVV),OR Other PVC insulated wire
Supplier	Reihsing
Sample Received Date	Jun. 15, 2023
Testing Period	Jun. 15, 2023 to Jun. 20, 2023

Test Requested	As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane (HBCDD) in the submitted sample(s).
Test Method	Please refer to the following page(s).
Test Result(s)	Please refer to the following page(s).

Approved by: Hill Zheng Date: Jun. 20, 2023

Hill Zheng
Technical Manager

No. R338851550

Test Report

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	IEC 62321-9:2021	GC-MS

Test Report

Test Result(s)

Tested Item(s)	Result	MDL
	005	
Lead (Pb)	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg

Tested Item(s)	Result	MDL
	005	
Polybrominated Biphenyls (PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg

Tested Item(s)	Result	MDL
	005	
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

Test Report

Report No. A2230291599104005

Test Result(s)

Tested Item(s)	Result	MDL
	005	
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg

Tested Item(s)	Result	MDL
	005	
Hexabromocyclododecane (HBCDD)	N.D.	20 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	005	Red wire jacket

Remark: **-The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**
-Information Statement:Different Part No. with different buyer.

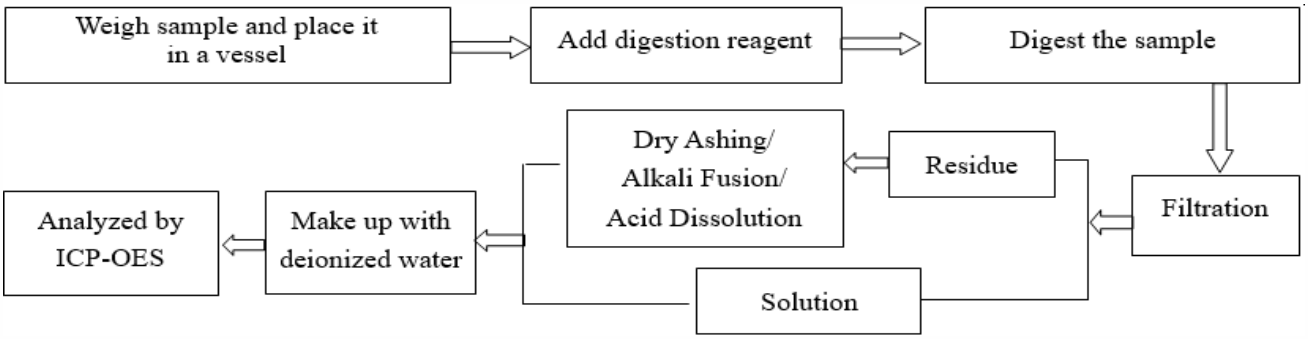
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million

Test Report

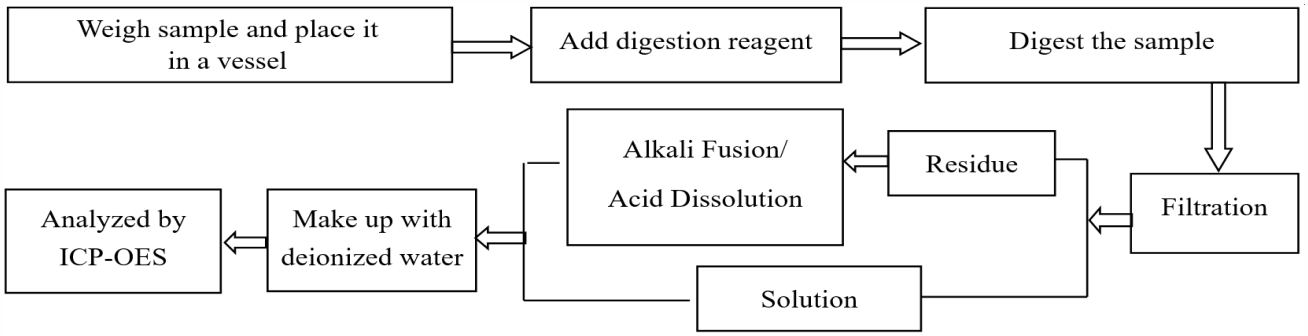
Report No. A2230291599104005

Test Process

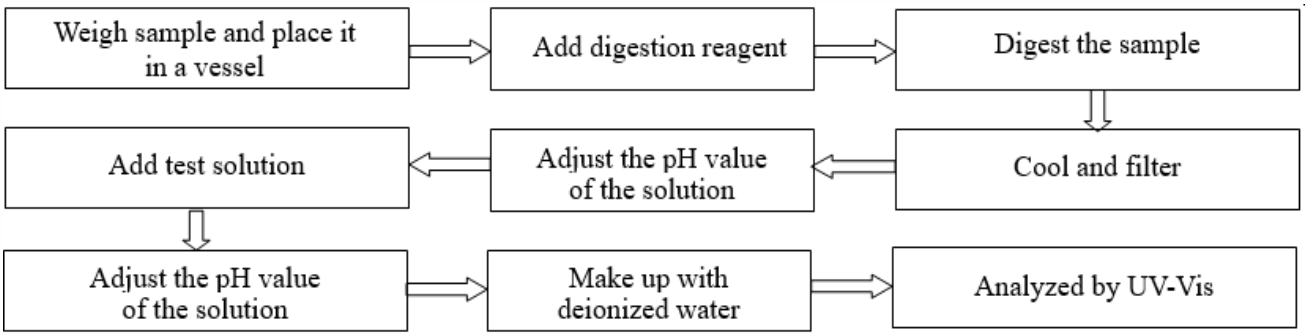
1. Lead (Pb), Cadmium (Cd), Chromium (Cr)



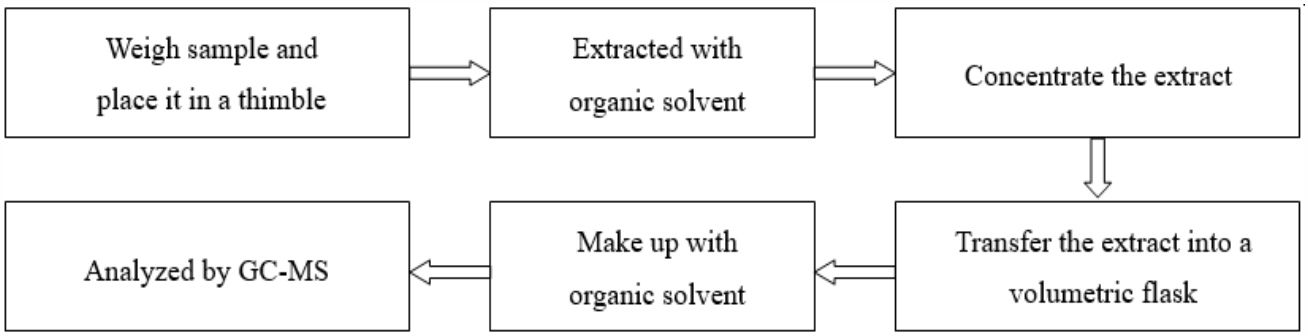
2. Mercury (Hg)



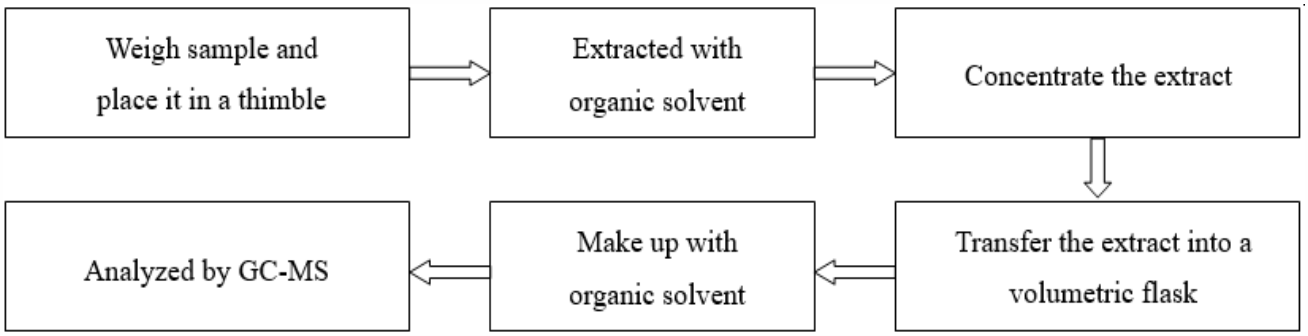
3. Hexavalent Chromium (Cr(VI))



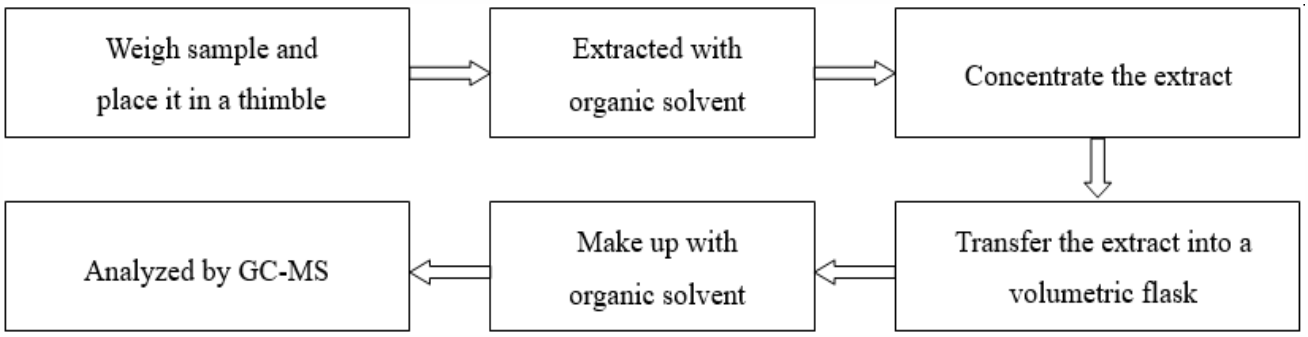
4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



5. Phthalates (DBP, BBP, DEHP, DIBP)

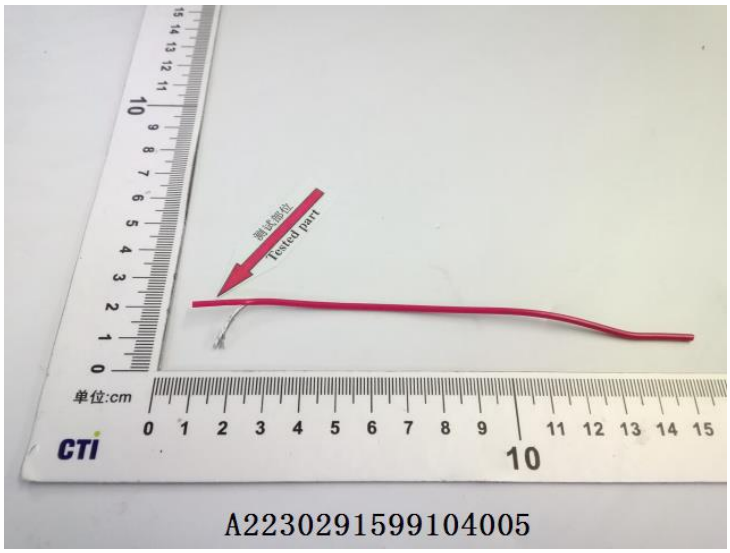


6. Hexabromocyclododecane (HBCDD)



Test Report

Photo(s) of the sample(s)



Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of CTI, this report can't be reproduced except in full;
5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of report ***

Test Report

Report No. A2230291599104004

Company Name shown on Report	REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD
Address	NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY GUANGDONG CHINA

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

Sample Name	BLACK PVC LF INSULATED WIRE
Part No.	UL1015 LF WIRE UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674, 1500,1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,1430,1431, 3443,3610,2468,2464,2444,20080,2555,2476,2697,2733,2562,2096,1533,2547,20005, 20276,2854,2851,1185,10070,10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK, H05V2-U,H05V2-K,AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90) 52(RVV)53(RVV),OR Other PVC insulated wire
Supplier	Reihsing
Sample Received Date	Jun. 15, 2023
Testing Period	Jun. 15, 2023 to Jun. 20, 2023

Test Requested	As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane (HBCDD) in the submitted sample(s).
Test Method	Please refer to the following page(s).
Test Result(s)	Please refer to the following page(s).

Approved by: Hill Zheng Date: Jun. 20, 2023

Hill Zheng
Technical Manager

No. R338851550

Centre Testing International Group Co.,Ltd.
CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Test Report

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	IEC 62321-9:2021	GC-MS

Test Report

Report No. A2230291599104004

Test Result(s)

Tested Item(s)	Result	MDL
	004	
Lead (Pb)	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg

Tested Item(s)	Result	MDL
	004	
Polybrominated Biphenyls (PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg

Tested Item(s)	Result	MDL
	004	
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

Test Report

Report No. A2230291599104004

Test Result(s)

Tested Item(s)	Result	MDL
	004	
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg

Tested Item(s)	Result	MDL
	004	
Hexabromocyclododecane (HBCDD)	N.D.	20 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	004	Black wire jacket

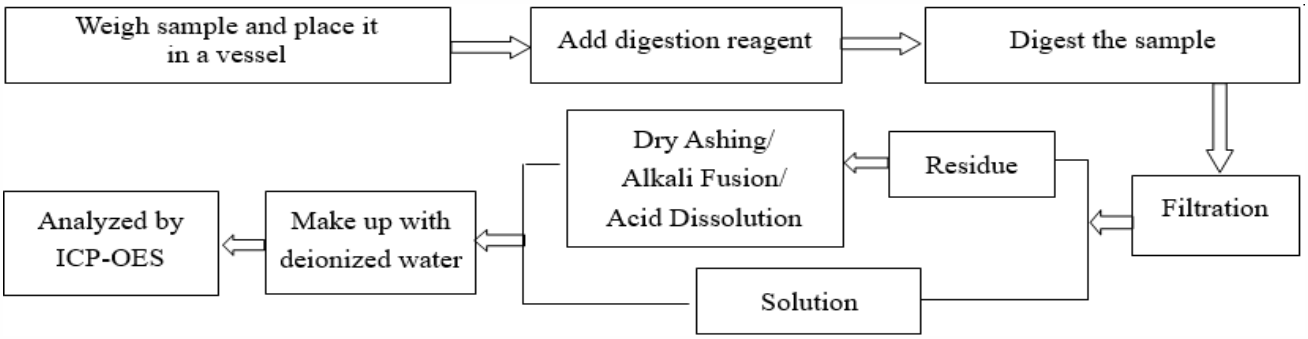
Remark: **-The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**
-Information Statement:Different Part No. with different buyer.

-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million

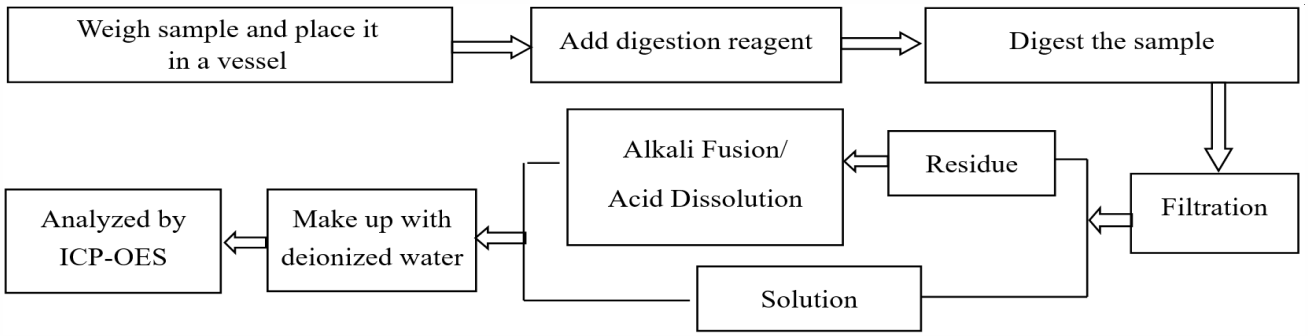
Test Report

Test Process

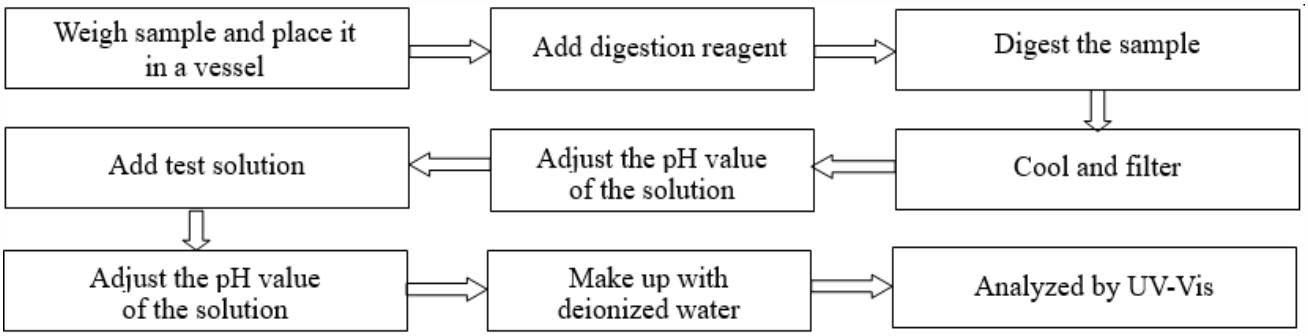
1. Lead (Pb), Cadmium (Cd), Chromium (Cr)



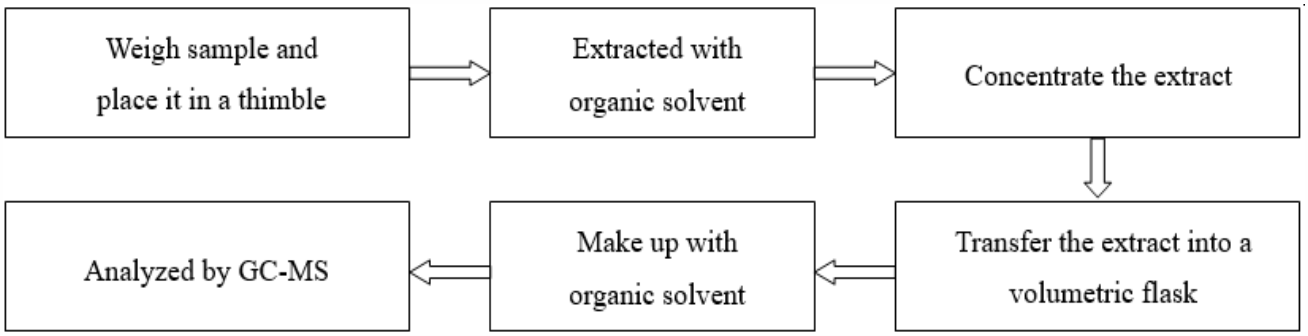
2. Mercury (Hg)



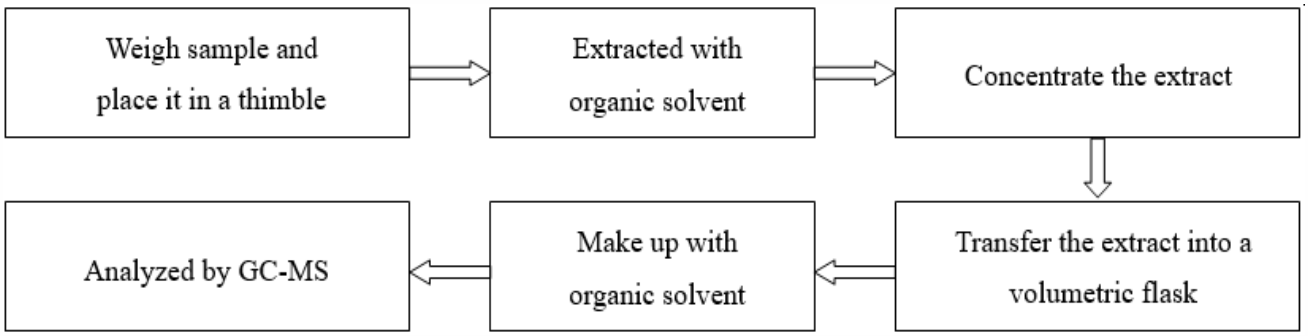
3. Hexavalent Chromium (Cr(VI))



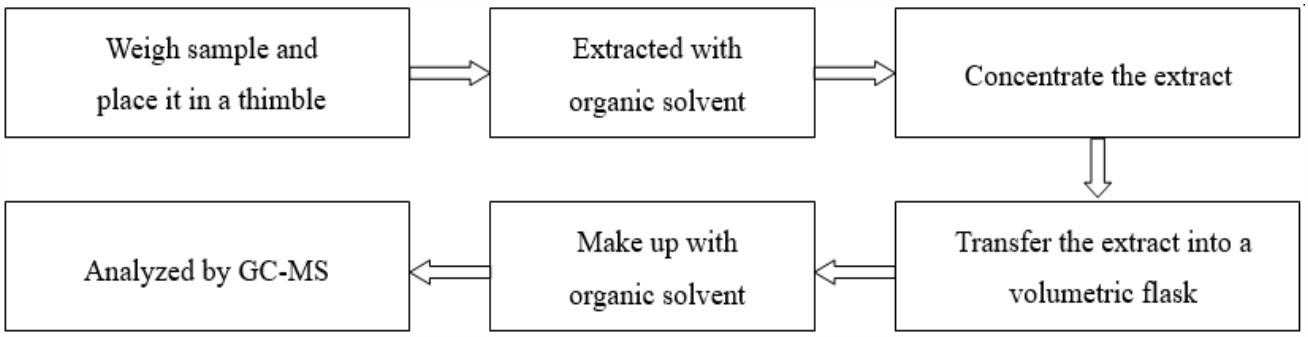
4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



5. Phthalates (DBP, BBP, DEHP, DIBP)



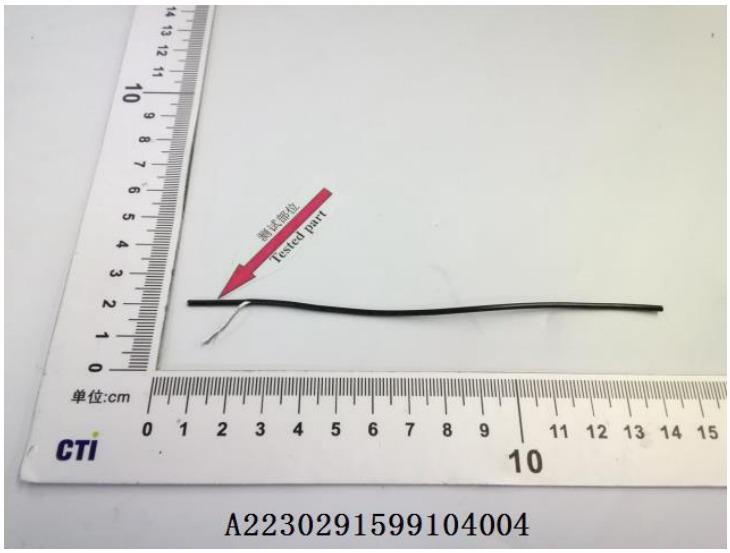
6. Hexabromocyclododecane (HBCDD)



Test Report

Report No. A2230291599104004

Photo(s) of the sample(s)



Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of CTI, this report can't be reproduced except in full;
5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of report ***

Test Report

Report No. A2230291599104009

Company Name shown on Report	REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD
Address	NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY GUANGDONG CHINA

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

Sample Name	BLUE PVC LF INSULATED WIRE
Part No.	UL1015 LF WIRE UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674, 1500,1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,1430,1431, 3443,3610,2468,2464,2444,20080,2555,2476,2697,2733,2562,2096,1533,2547,20005, 20276,2854,2851,1185,10070,10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK, H05V2-U,H05V2-K,AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90) 52(RVV)53(RVV),OR Other PVC insulated wire
Supplier	Reihsing
Sample Received Date	Jun. 15, 2023
Testing Period	Jun. 15, 2023 to Jun. 20, 2023

Test Requested	As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane (HBCDD) in the submitted sample(s).
Test Method	Please refer to the following page(s).
Test Result(s)	Please refer to the following page(s).

Approved by: Hill Zheng Date: Jun. 20, 2023

Hill Zheng
Technical Manager

No. R338851550

Test Report

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	IEC 62321-9:2021	GC-MS

Test Report

Test Result(s)

Tested Item(s)	Result	MDL
	009	
Lead (Pb)	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg

Tested Item(s)	Result	MDL
	009	
Polybrominated Biphenyls (PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg

Tested Item(s)	Result	MDL
	009	
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

Test Report

Report No. A2230291599104009

Test Result(s)

Tested Item(s)	Result	MDL
	009	
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg

Tested Item(s)	Result	MDL
	009	
Hexabromocyclododecane (HBCDD)	N.D.	20 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	009	Blue wire jacket

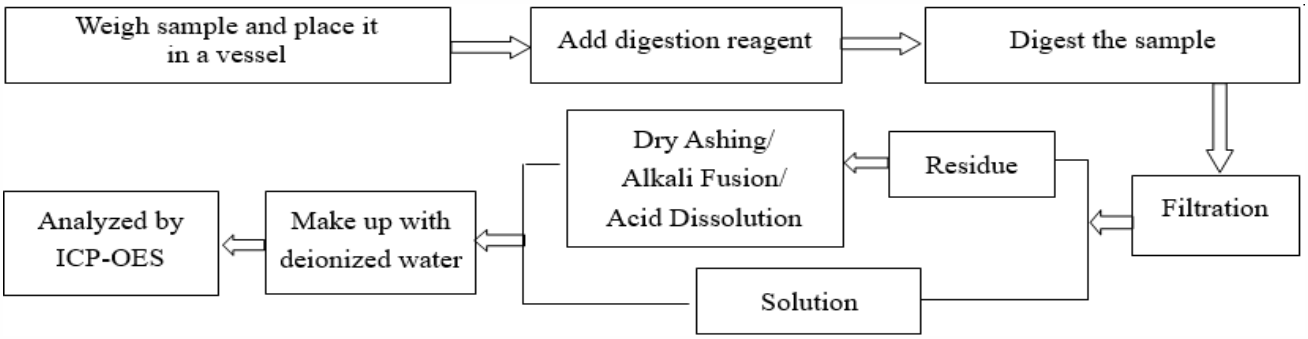
Remark: **-The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**
-Information Statement:Different Part No. with different buyer.

-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million

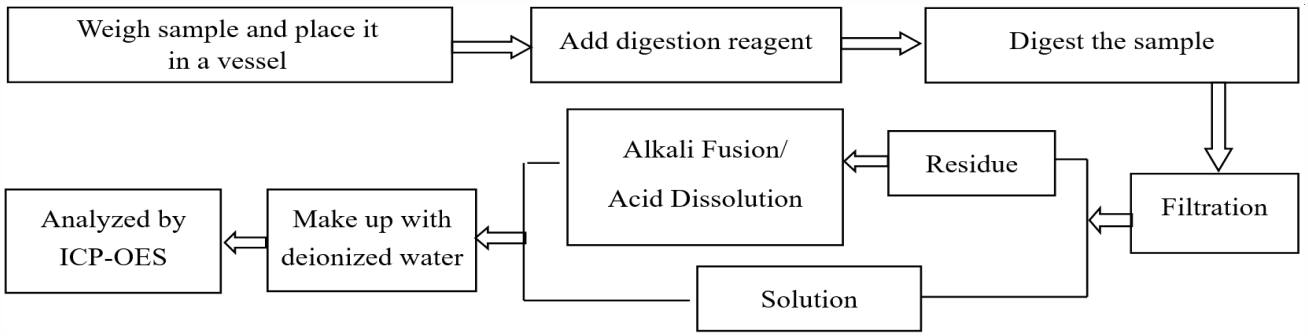
Test Report

Test Process

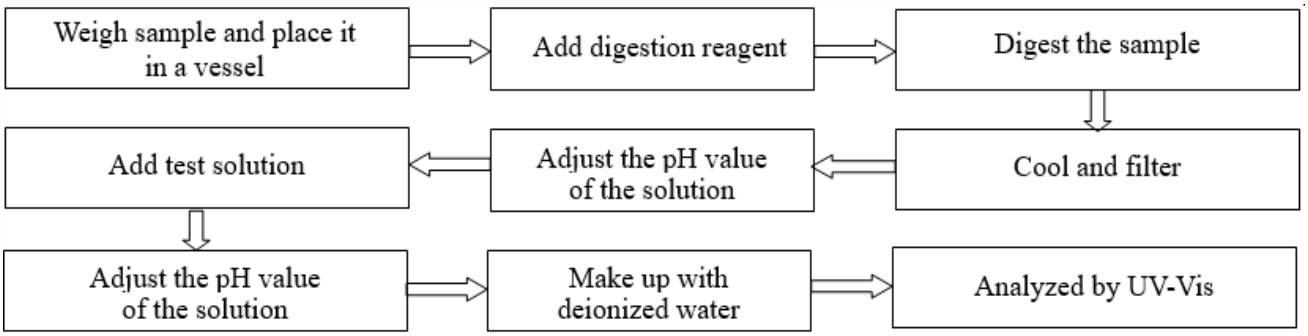
1. Lead (Pb), Cadmium (Cd), Chromium (Cr)



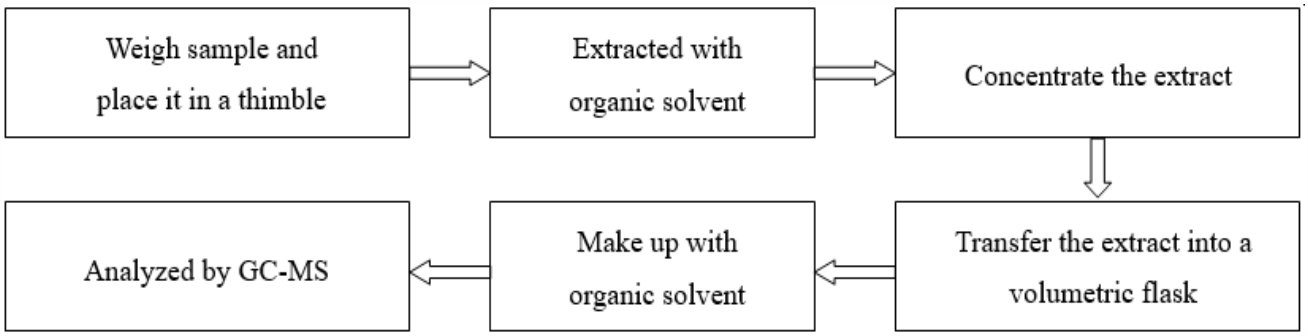
2. Mercury (Hg)



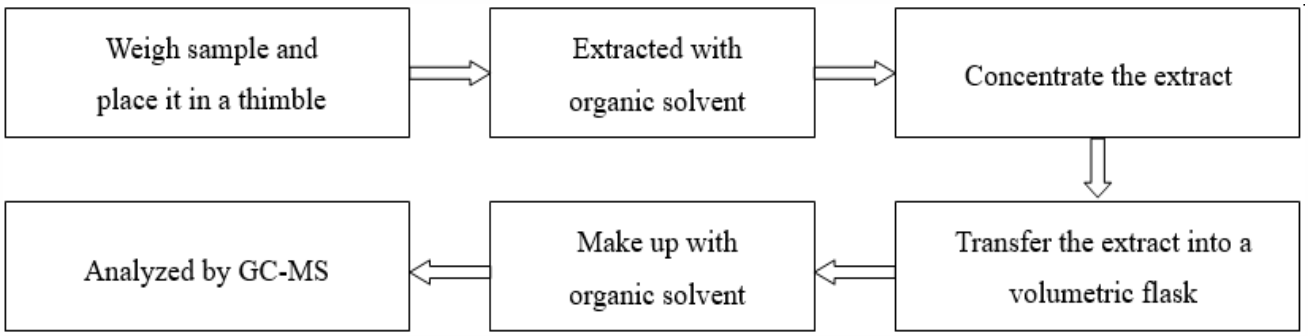
3. Hexavalent Chromium (Cr(VI))



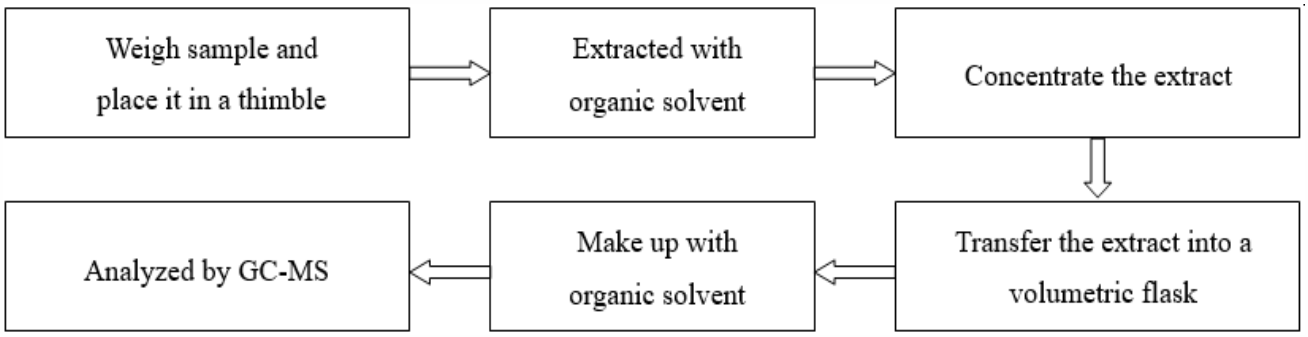
4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



5. Phthalates (DBP, BBP, DEHP, DIBP)

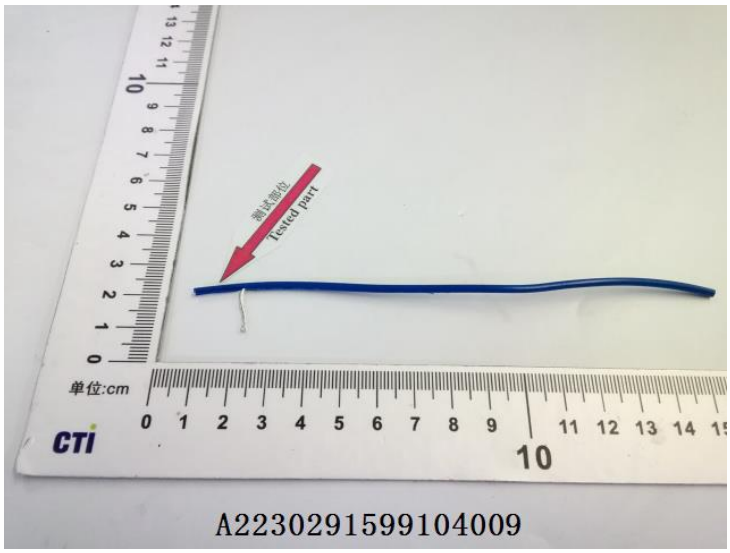


6. Hexabromocyclododecane (HBCDD)



Test Report

Photo(s) of the sample(s)



Statement:

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2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of CTI, this report can't be reproduced except in full;
5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of report ***

Test Report

Report No. A2230291599104001

Company Name shown on Report	REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD
Address	NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY GUANGDONG CHINA

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

Sample Name	WHITE PVC LF INSULATED WIRE
Part No.	UL1015 LF WIRE UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500, 1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,1430,1431,3443, 3610,2468,2464,2444,20080,2555,2476,2697,2733,2562,2096,1533,2547,20005,20276, 2854,2851,1185,10070,10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K,AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV), OR Other PVC insulated wire
Supplier	Reihsing
Sample Received Date	Jun. 15, 2023
Testing Period	Jun. 15, 2023 to Jun. 20, 2023

Test Requested	As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane (HBCDD) in the submitted sample(s).
Test Method	Please refer to the following page(s).
Test Result(s)	Please refer to the following page(s).

Approved by: Hill Zheng

Hill Zheng
Technical Manager

Date: Jun. 20, 2023

No. R338851550

Centre Testing International Group Co.,Ltd.
CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Test Report

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	IEC 62321-9:2021	GC-MS

Test Report

Report No. A2230291599104001

Test Result(s)

Tested Item(s)	Result	MDL
	001	
Lead (Pb)	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg

Tested Item(s)	Result	MDL
	001	
Polybrominated Biphenyls (PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg

Tested Item(s)	Result	MDL
	001	
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

Test Report

Report No. A2230291599104001

Test Result(s)

Tested Item(s)	Result	MDL
	001	
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg

Tested Item(s)	Result	MDL
	001	
Hexabromocyclododecane (HBCDD)	N.D.	20 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	001	White wire jacket

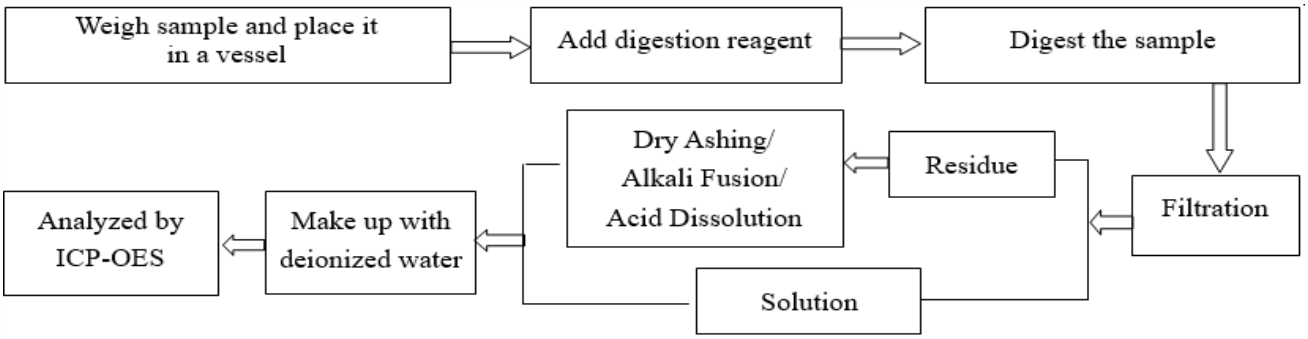
Remark: **-The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**
-Information Statement:Different Part No. with different buyer.

-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million

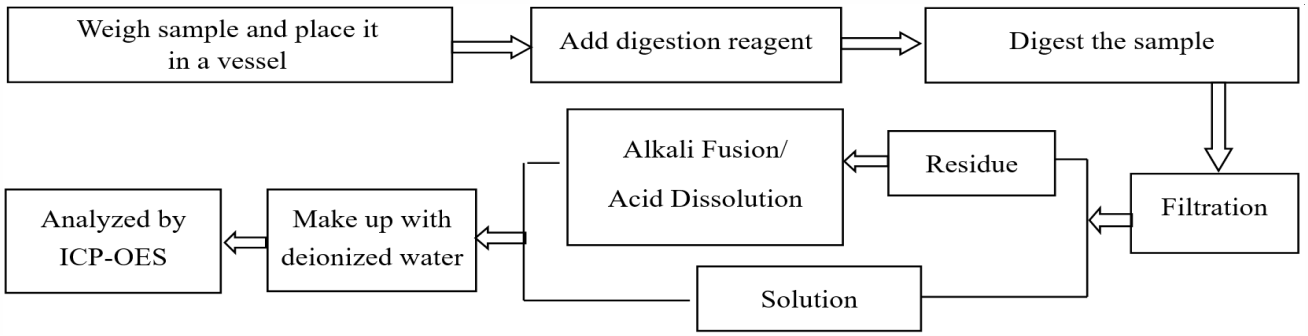
Test Report

Test Process

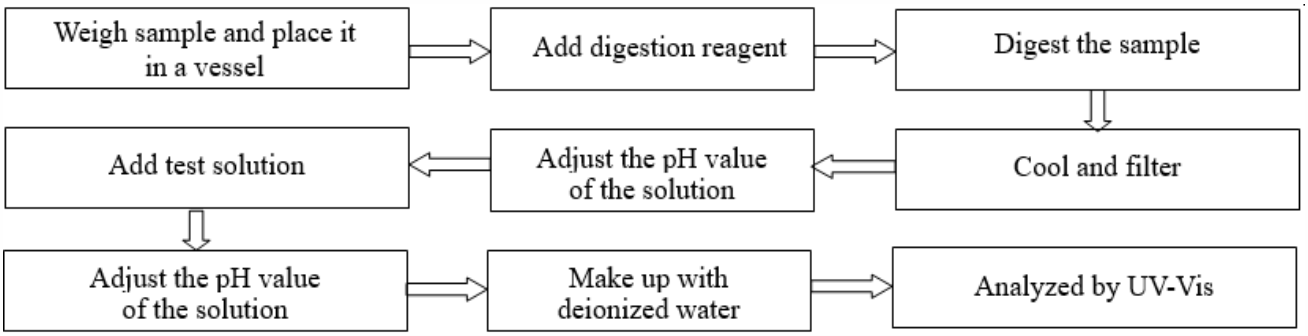
1. Lead (Pb), Cadmium (Cd), Chromium (Cr)



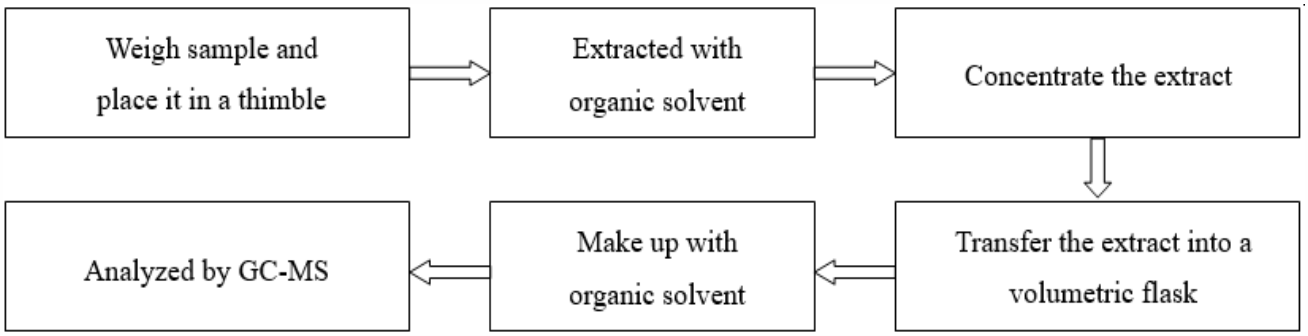
2. Mercury (Hg)



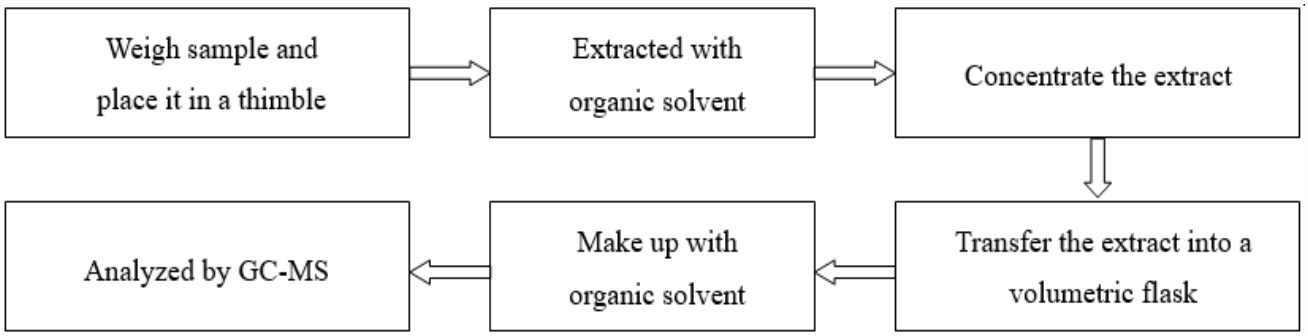
3. Hexavalent Chromium (Cr(VI))



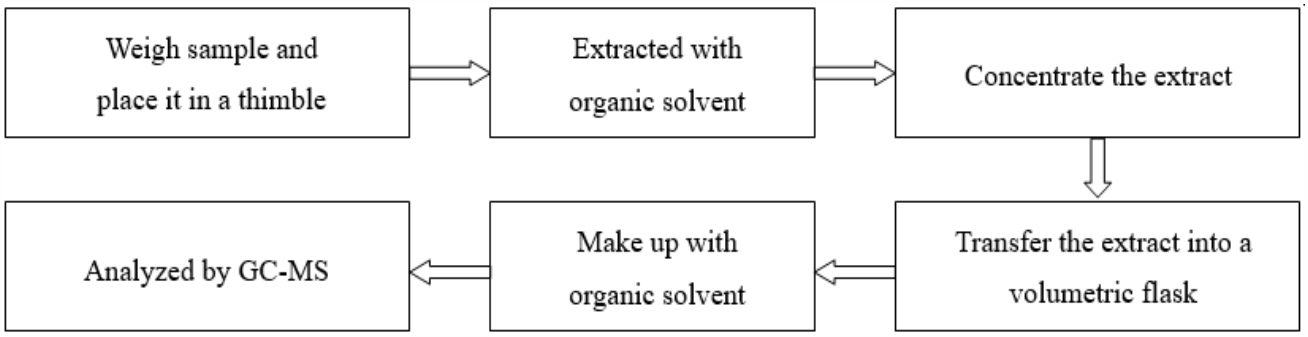
4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



5. Phthalates (DBP, BBP, DEHP, DIBP)

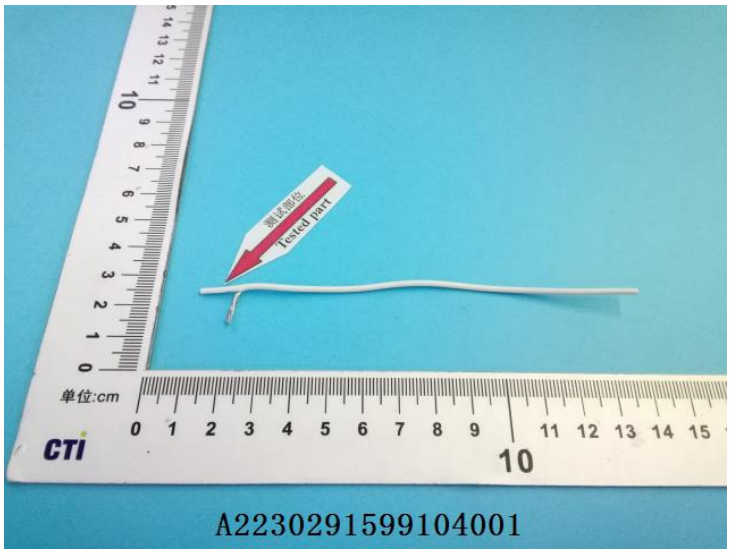


6. Hexabromocyclododecane (HBCDD)



Test Report

Photo(s) of the sample(s)



Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of CTI, this report can't be reproduced except in full;
5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of report ***

Test Report

No. CANEC2301222302 Date: 09 Feb 2023

Client Name : DONGGUAN LUCKY FLY CONDUCTOR CO.,LTD

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

Sample Name : TINNED COPPER WIRE

Main Substance : CU,SN

The above sample(s) and information were provided by the client.

SGS Job No. : CP23-002716 - GZ

Date of Sample Received : 03 Feb 2023

Testing Period : 03 Feb 2023 - 09 Feb 2023

Test Requested : Selected test(s) as requested by the client.

Test Method(s) : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	PASS
Elementary Analysis	See Results
AfPS GS 2019:01 PAK - Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives	See Results

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

scan to see the report

10E9C309

Coral Qiu

Coral Qiu
Approved Signatory

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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN23-012223.002	Silvery plated metal wire

Remarks :

(1) 1 mg/kg = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

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)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▾	-	µg/cm²	0.10	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND

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Test Item(s)	Limit	Unit	MDL	*002*
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

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series

(3) ▾= 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 EPA 3050B:1996), analysis was performed by ICP-OES.

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

AfPS GS 2019:01 PAK - Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Unit	MDL	002
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND

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Test Item(s)	CAS NO.	Unit	MDL	002
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 4 PAHs (Phenanthrene, Pyrene, Anthracene, Fluoranthene)	-	mg/kg	-	ND
Sum of 15 PAHs	-	mg/kg	-	ND

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AfPS (German commission for Product Safety) : PAHs requirements

Parameter (mg/kg)	Category 1	Category 2		Category 3	
	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use -in toys according to Directive 2009/48/EC or -for the use by children[a,b] up to 3 years of age.	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact[c] with skin during the intended or foreseeable use[d].		Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.	
		a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT)	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP)	< 1	< 2		< 10	
Sum of 15 PAHs	<1	< 5	< 10	< 20	< 50

Note:
[a] A “Child” is legally defined as a person before reaching the age of 14 years.
[b] Use by children includes both active and passive contact by children.
[c] Definition “short-term repetitive contact” taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No. 1272/2013)
[d] According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) “foreseeable use” shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

Remark: The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives

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

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Test Item(s)	CAS NO.	Unit	MDL	002
Perfluorooctane sulfonates (PFOS) and its salts*	-	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide(N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido) -ethanol(N-MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol(N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND

Notes :

(1) PFOA and its salts* including PFOA (CAS No. 335-67-1), APFO (CAS No. 3825-26-1), PFOA-Na (CAS No. 335-95-5), PFOA-K (CAS No. 2395-00-8), PFOA-Ag (CAS No. 335-93-3) and PFOA-F (CAS No. 335-66-0). The result of PFOA is used to represent PFOA and its salts.

(2) PFOS and its salts* including PFOS (CAS No. 1763-23-1), POSF(CAS No. 307-35-7), PFOS-K (CAS No. 2795-39-3), PFOS-NH_4 (CAS No. 29081-56-9), PFOS-$N(C_{10}H_{21})_2(CH_3)_2$ (CAS No. 251099-16-8), PFOS-$NH_2(C_2H_4OH)_2$ (CAS No. 70225-14-8), PFOS-Li (CAS No. 29457-72-5), PFOS-$N(C_2H_5)_4$ (CAS No. 56773-42-3) and PFOS-Na (CAS No. 4021-47-0). The result of PFOS is used to represent PFOS and its salts.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.

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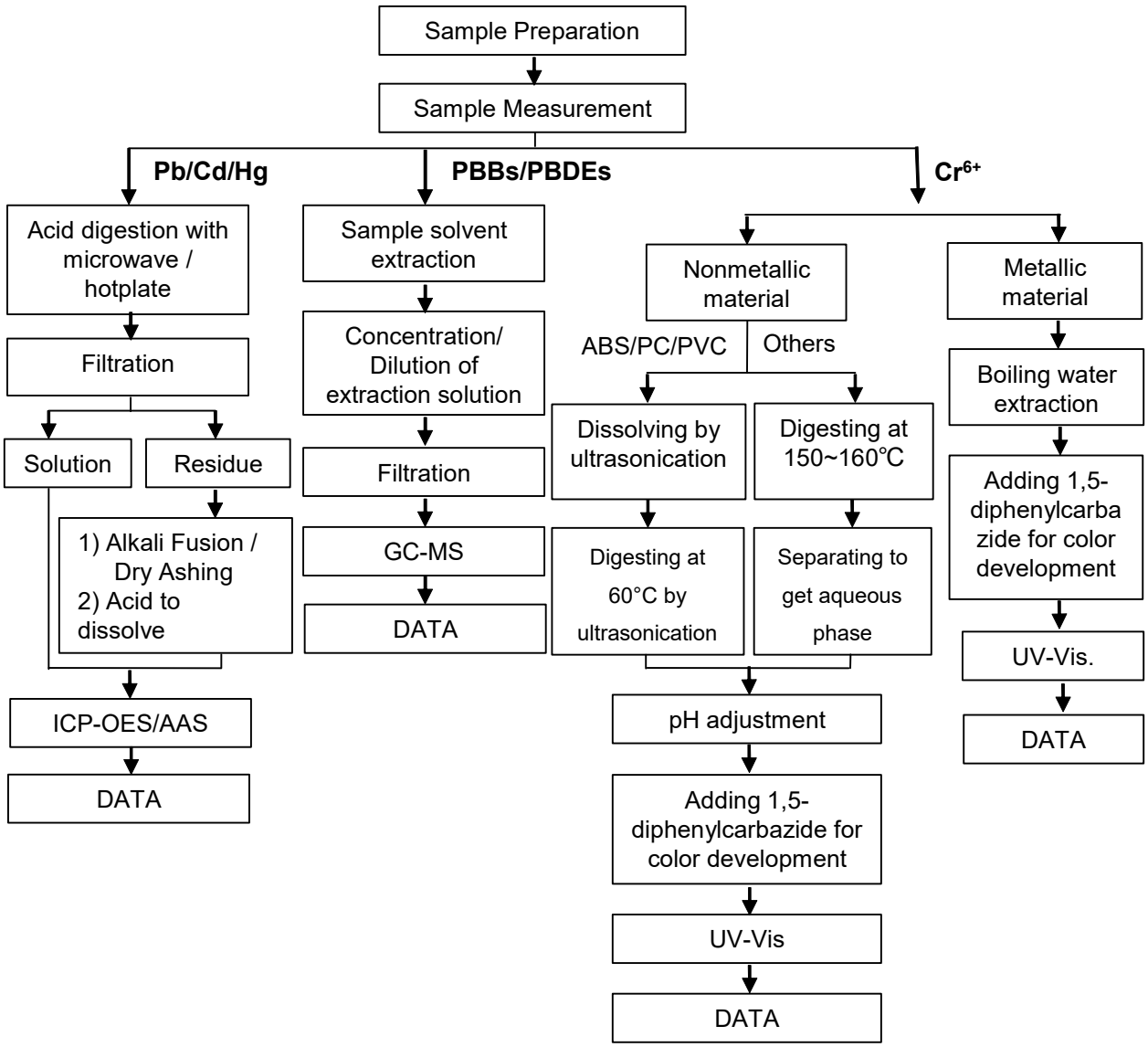
Pb/Cd/Hg/Cr^{6+}/PBBs/PBDEs Testing Flow Chart

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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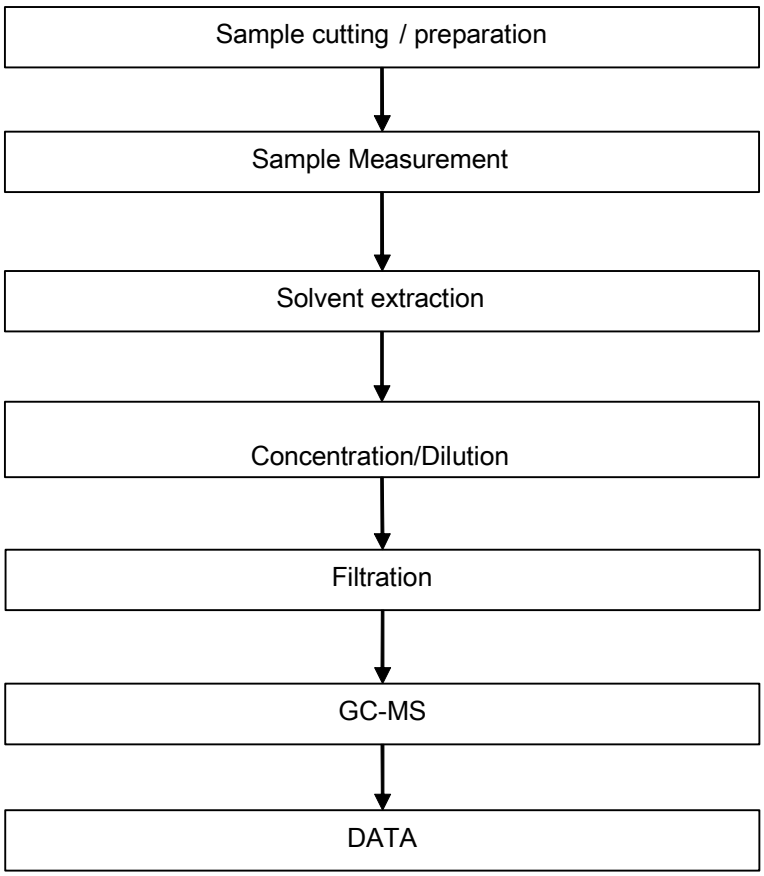
Phthalates Testing Flow Chart



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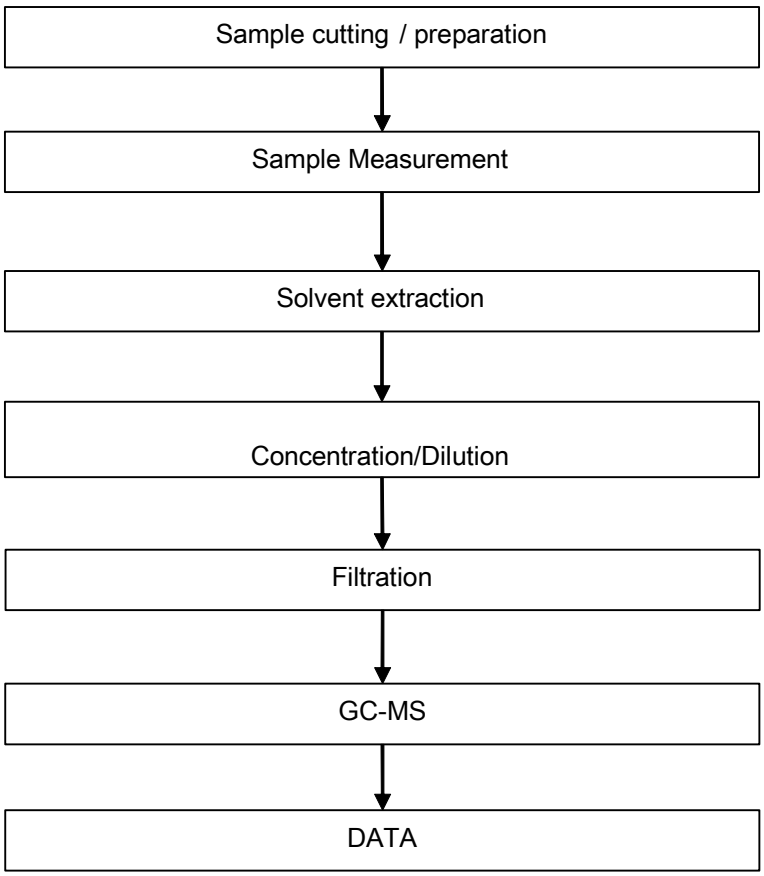
PAHs Testing Flow Chart



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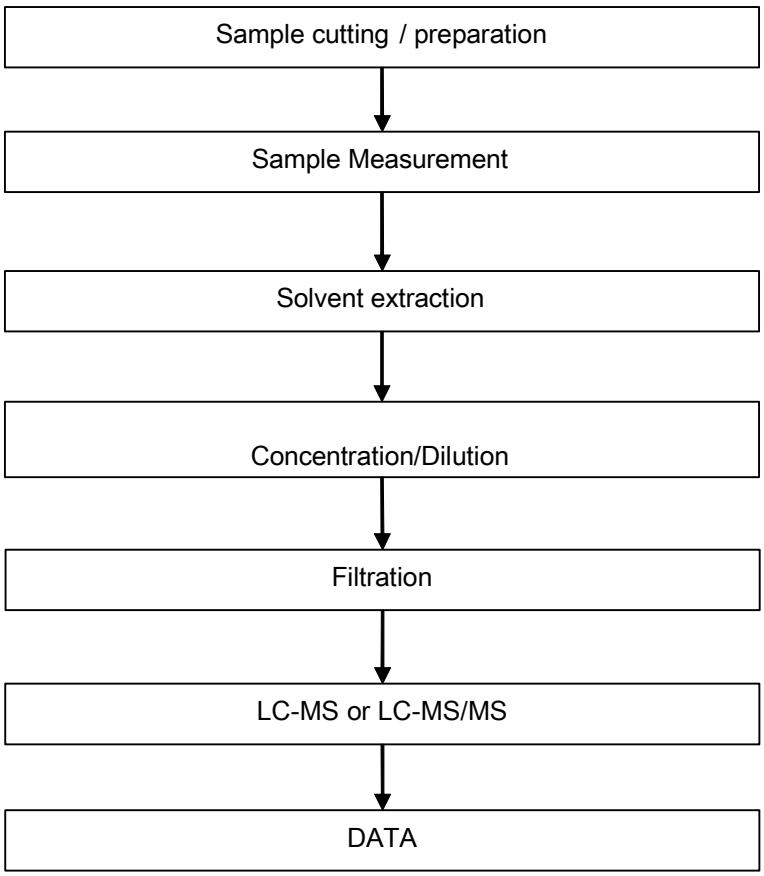
Testing Flow Chart



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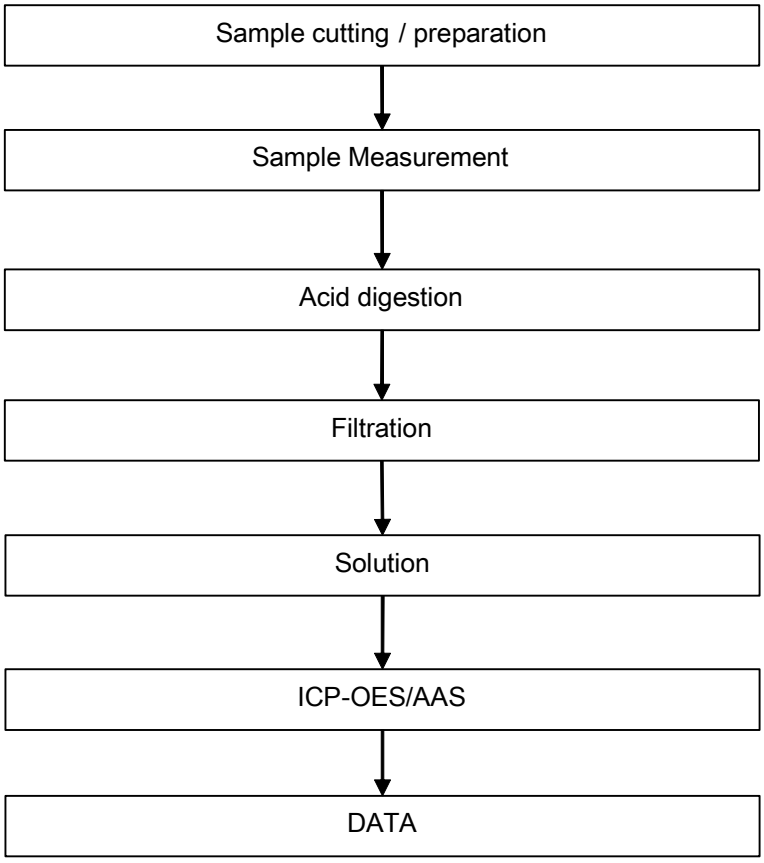
Elementary Testing Flow Chart



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Sample photo:



CAN23-012223.002

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Test Report

No. CANEC2206926601 Date: 24 Apr 2022 Page 1 of 6

Client Name : SINWA LASER TECHNOLOGY CO.,LTD

Client Address : 50.WU KONG 5 TH RD,.WU KU INDUSTRIAL PARK .TAIPEI TAIWAN

Sample Name : INK WHITE FOR WIRE &CABLE PRINTING

Model No. : I-PVC-01

The above sample(s) and information were provided by the client.

SGS Job No. :	CP22-019525 - SZ
Date of Sample Received :	18 Apr 2022
Testing Period :	18 Apr 2022 - 24 Apr 2022
Test Requested :	Selected test(s) as requested by the client.
Test Method(s) :	Please refer to next page(s).
Test Result(s) :	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

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FE79CA21

Jessie Li

Jessie Li
Approved Signatory

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

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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN22-069266.001	White liquid

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	*001*
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	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	*001*
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.
(2) IEC 62321 series is equivalent to EN 62321 series
https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637,25
(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Remark: The result(s) shown is/are of the total weight of dried sample.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w =0) stated in ILAC-G8:09/2019.

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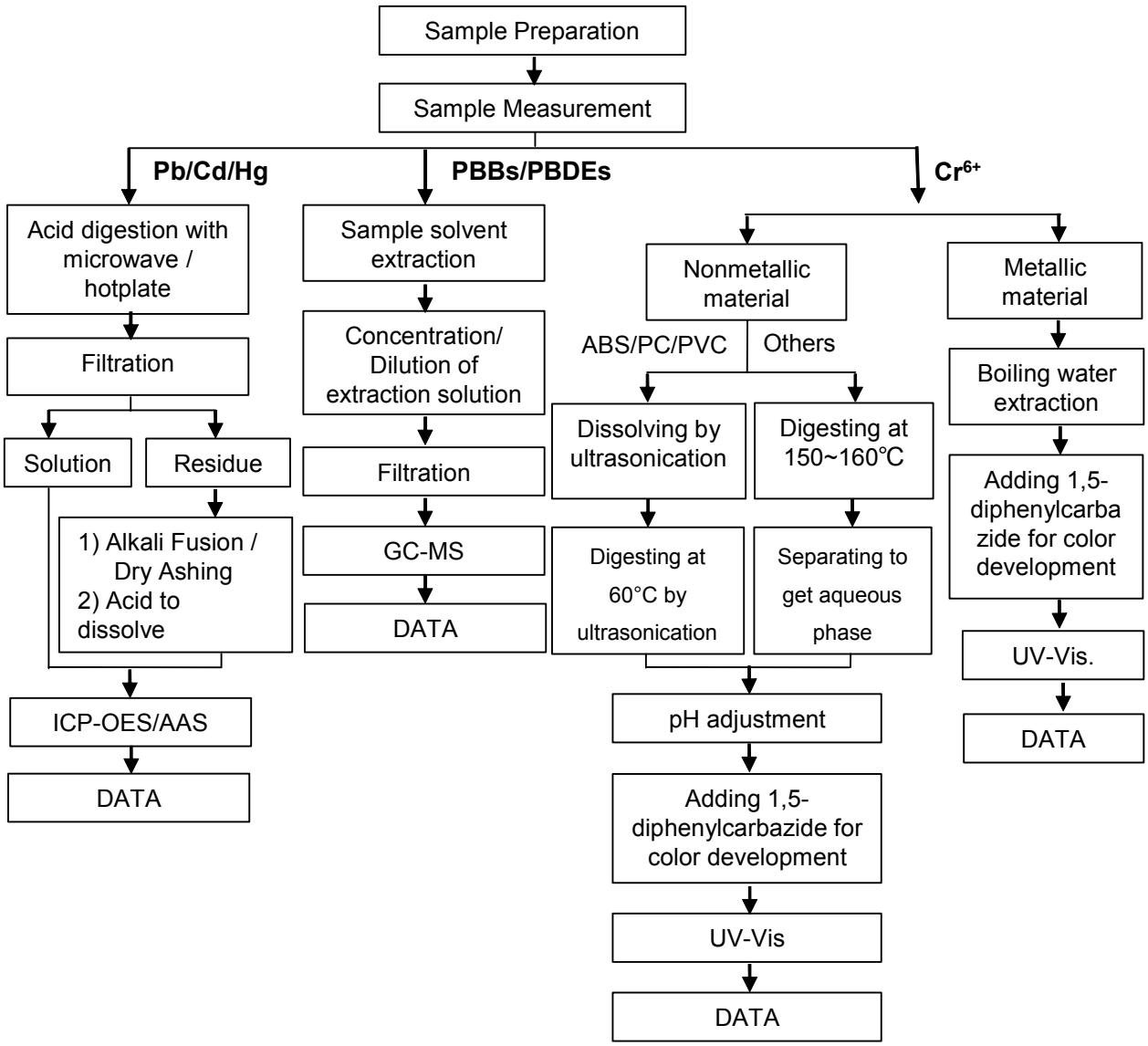
Pb/Cd/Hg/Cr^{6+}/PBBs/PBDEs Testing Flow Chart

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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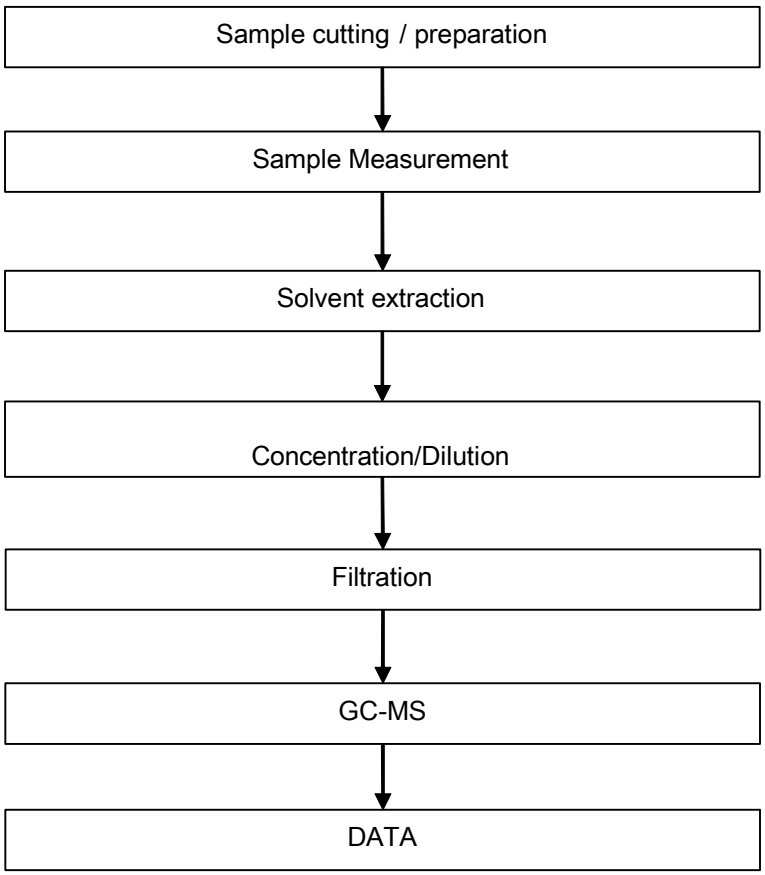
Phthalates Testing Flow Chart



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Sample photo:



CAN22-069266.001

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Test Report

No.: CANEC23001447703 **Date:** Apr 11, 2023

Client Name: SINWA LASER TECHNOLOGY CO.,LTD

Client Address: 50.WU KONG 5 TH RD,.WU KU INDUSTRIAL PARK .TAIPEI TAIWAN CHINA

Sample Name: INK BLACK FOR WIRE &CABLE PRINTING

Model No.: I-PVC-02

The above sample(s) and information were provided by the client.

SGS Job No.: CP23-015924

Sample Receiving Date: Apr 04, 2023

Testing Period: Apr 04, 2023 ~ Apr 11, 2023

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

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

Arsene Ye

Arsene Ye
Approved Signatory

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Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN23-0014477-0001.C001	Black liquid

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1
Cadmium(Cd)	100	mg/kg	2	ND
Lead(Pb)	1000	mg/kg	2	ND
Mercury(Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBBs)	1000	mg/kg	-	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND
Tribromobiphenyl (TriBB)	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	-	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	-	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs)	1000	mg/kg	-	ND
Monobromodiphenylether (MonoBDE)	-	mg/kg	5	ND
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND
Tetrabromodiphenylether (TetraBDE)	-	mg/kg	5	ND
Pentabromodiphenylether (PentaBDE)	-	mg/kg	5	ND
Hexabromodiphenylether (HexaBDE)	-	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND
Octabromodiphenylether (OctaBDE)	-	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE)	-	mg/kg	5	ND
Decabromodiphenylether (DecaBDE)	-	mg/kg	5	ND
Dibutyl Phthalate(DBP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	1000	mg/kg	50	ND

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检验检测专用章 Inspection & Testing Services

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Test Item(s)	Limit	Unit(s)	MDL	A1
Bis-(2-ethylhexyl) Phthalate(DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalate(DIBP)	1000	mg/kg	50	ND

Notes:
(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
(2) IEC 62321 series is equivalent to EN 62321 series.
(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Remark: The result(s) shown is/are of the total weight of dried sample.
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

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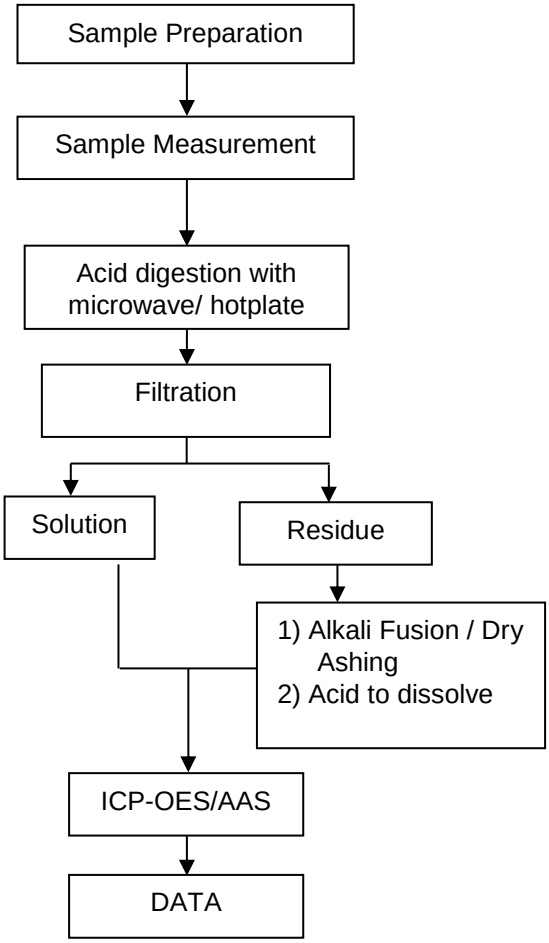
Elements Testing Flow Chart

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



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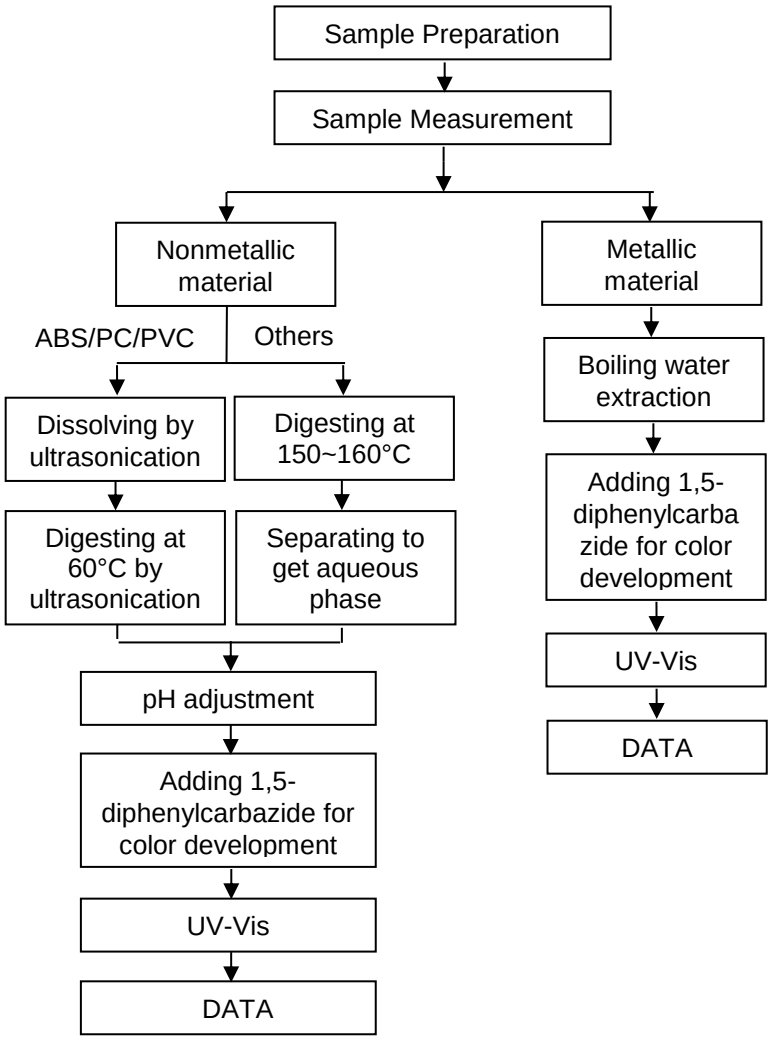
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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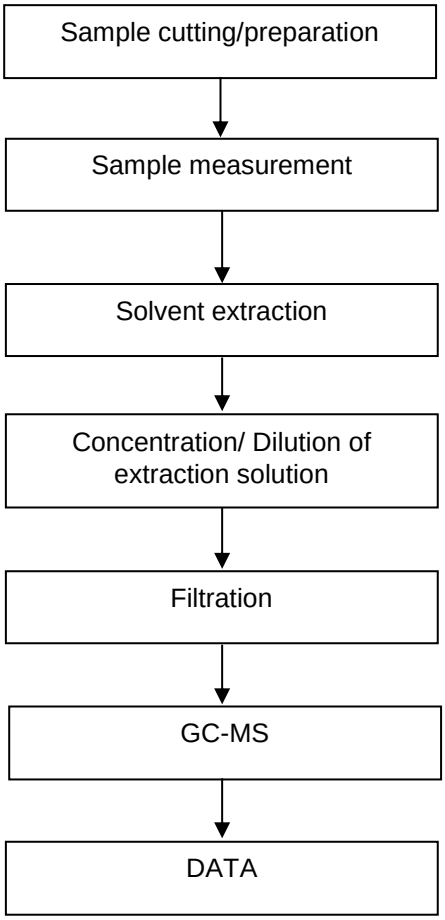
PBBs/PBDEs Testing Flow Chart



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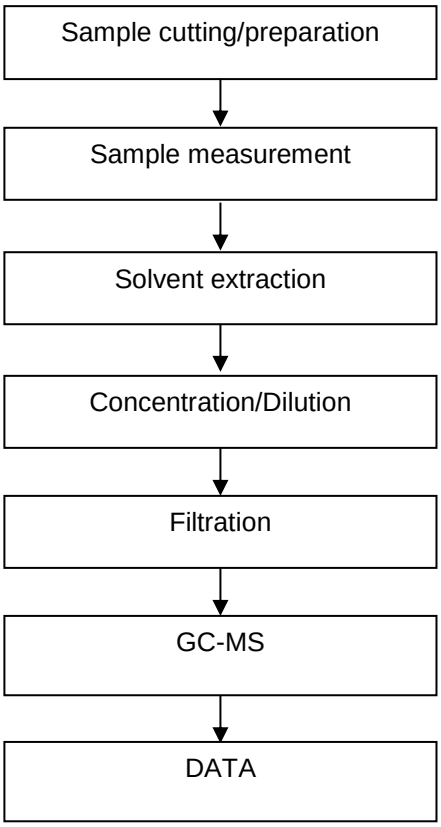
Phthalates Testing Flow Chart



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Sample Photo:



CAN23-0014477-0001.C001

SGS authenticate the photo on original report only

*** End of Report ***

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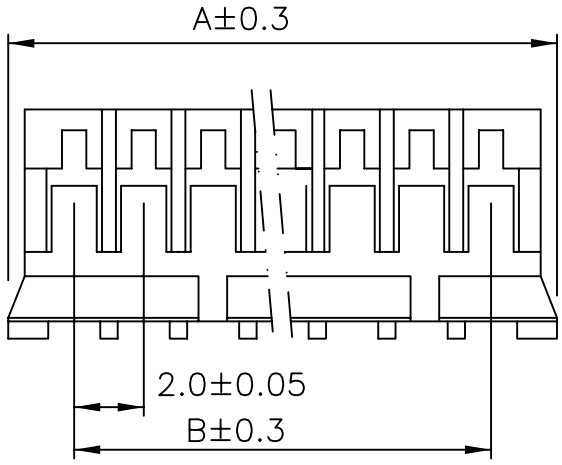
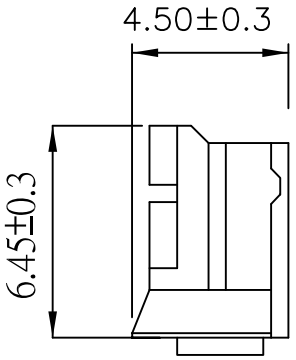
EVER-CONN

2020 SERIES





PART NO.	A	B
2020-02	5.8	2.0
2020-03	7.8	4.0
2020-04	9.8	6.0
2020-05	11.8	8.0
2020-06	13.8	10.0
2020-07	15.8	12.0
2020-08	17.8	14.0
2020-09	19.8	16.0
2020-10	21.8	18.0

PART NO.	A	B
2020-11	23.8	20.0
2020-12	25.8	22.0
2020-13	27.8	24.0
2020-14	29.8	26.0
2020-15	31.8	28.0
2020-16	33.8	30.0
2020-17	35.8	32.0
2020-18	37.8	34.0
2020-19	39.8	36.0
2020-20	41.8	38.0

MAT'L:NYLON 66 UL94V-0

CURRENT RATING:2A AC,DC

VOLTAGE RATING:250V AC DC

MATES WITH:2012P SERIES TERMINAL

ACCEPTS WITH:2021 & 2022 SERIES WAFER

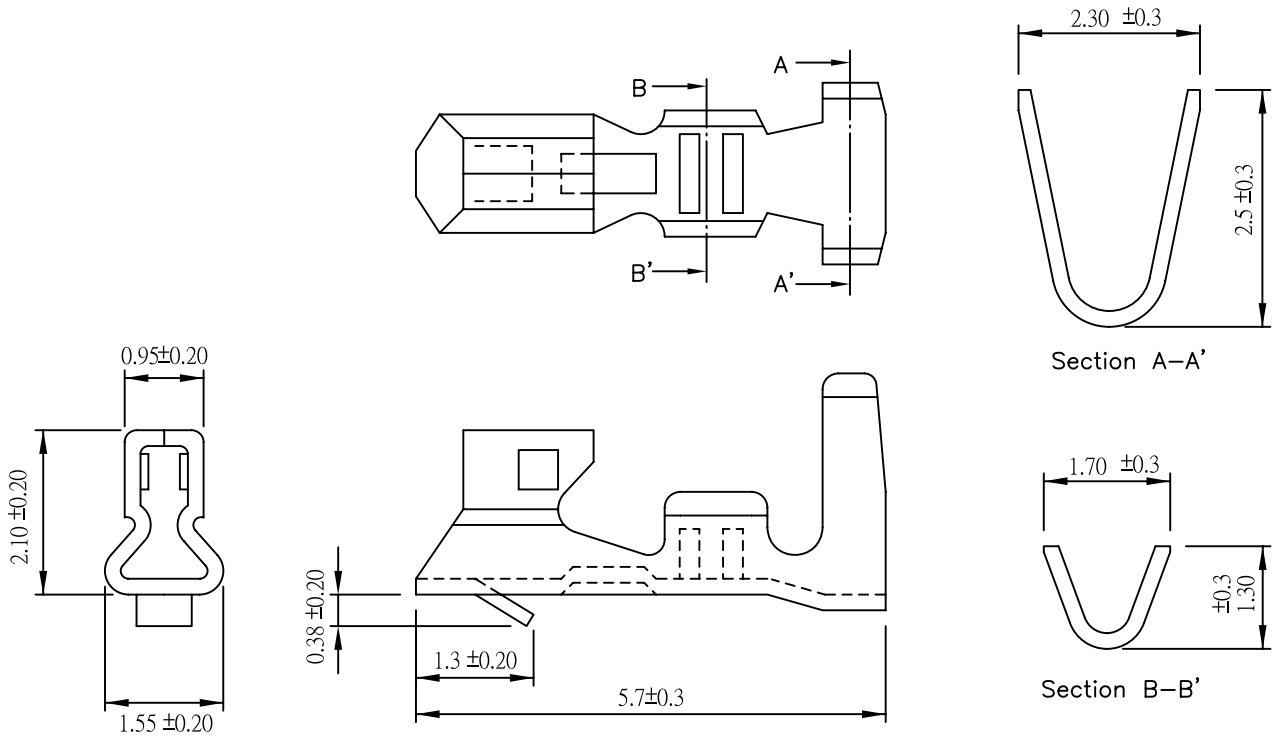
UL FILE:E115256

REMARKS REV 0

TOLERANCES LNLESS OTHERWISE SPECIFIED										
		±0.4	±0.5	MARK	REVISED	CLN	REVISER	SCALE	/	mm
	PARTITION	20-40	40 UP	ISSUER	LAY	CHECK		ANGLE		3TH ANGLE
	TYPE	±0.2	±0.3	旗欣股份有限公司 EVER CONNECTOR INDUSTRIAL CO.,LID				DATE 10.04.17		DWG NO. 2020
	PARTITION	1-10	10-20							

EVER-CONN
E.C.I.

2012P SERIES



2012P SERIES
MAT'L:PHOSPHOR BRONZE
TREATMENT:TIN PLATED
THICKNESS:0.2mm
MATES:2020 SERIES HOUSING
MATES WITH 2021 & 2022 SERIES WAFER
ACCEPTS:0.5mm (.02") SQUIRE OR ROUND PIN
INS. O.D.:1.3mm-0.8mm
WIRE RANGE:AWG#26-28
CURRENT RATING:2A AC,DC
VOLTAGE RATING:250V AC,DC
UL FILE NO:E115256

ウニオ REMARKS REV 0								TITLE	MATERIAL	FINISH	
TOLERANCES UNLESS OTHERWISE SPECIFIED	TYPE	±0.4	±0.5	MARK	REVISED	修改者	盧艷娥		ACALE	/	UNIT mm
	PARTITION	20-40	40 UP	ISSUER	YANG	CHECK			ANGLE		3TH ANGLE
	TYPE	±0.2	±0.3	旗欣股份有限公司 EVER CONNECTOR INDUSTRIAL CO., LID.					DATE 11.04.06		DWG NO. 2012P
	PARTITION	1-10	10-20								

CTI 華測檢測

檢測報告
Test Report

報告編號 A2220562047101005E
Report No. A2220562047101005E

報告抬頭公司名稱
Company Name shown on Report
旗欣股份有限公司
EVER CONNECTOR INDUSTRIAL CO., LTD

地 址
Address
高雄市岡山區本洲路91巷1號
NO. 1, LN. 91, BENZHOU RD., GANGSHAN DIST., KAOHSIUNG CITY 820, TAIWAN (R.O.C.)

以下測試之樣品及樣品資訊由申請者提供並確認
The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

樣品名稱 Sample Name	NYLON UL94-V0 NYLON UL94-V0
樣品接收日期 Sample Received Date	2022.12.13 Dec. 13, 2022
樣品檢測日期 Testing Period	2022.12.13-2022.12.30 Dec. 13, 2022 to Dec. 30, 2022

檢測要求
Test Requested
根據客戶要求，對所提交樣品中的鉛(Pb)，鎘(Cd)，汞(Hg)，六價鉻(Cr(VI))，多溴聯苯(PBBs)，多溴二苯醚(PBDEs)，鄰苯二甲酸酯(DBP, BBP, DEHP, DIBP)，氟(F)，氯(Cl)，溴(Br)，碘(I)，鄰苯二甲酸酯，全氟辛烷磺酸(PFOS)，全氟辛酸(PFOA)進行測試。
As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I), Phthalates, Perfluorooctane Sulfonates(PFOS), Perfluorooctanoic Acid(PFOA) in the submitted sample(s).

檢測依據/檢測結果
Test Method/Test Result(s)
請參見下頁。
Please refer to the following page(s).

主 檢
Tested by

批 准
Approved by
馮智聰
實驗室經理 Laboratory Manager

審 核
Reviewed by

日 期
Date
2022.12.30

No. R392334463

台灣華測檢測技術有限公司檢測中心
Testing Center, Centre Testing International (Taiwan) Co., Ltd.
桃園市蘆竹區南崁路二段9號5樓之6
5F-6, No.9, Sec.2, Nankan Rd, Luzhu Dist., Taoyuan, Taiwan

檢測報告
Test Report

檢測依據 Test Method

測試項目 Test Item(s)	測試方法 Test Method	測試儀器 Measured Equipment(s)
鉛 Lead (Pb)	IEC 62321-5:2013	ICP-OES
鎘 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六價鉻 Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017	UV-Vis
多溴聯苯 Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
鄰苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
氟 Fluorine (F)	參考EN 14582:2016 Refer to EN 14582:2016	IC
氯 Chlorine (Cl)	參考EN 14582:2016 Refer to EN 14582:2016	IC
溴 Bromine (Br)	參考EN 14582:2016 Refer to EN 14582:2016	IC
碘 Iodine (I)	參考EN 14582:2016 Refer to EN 14582:2016	IC
鄰苯二甲酸酯 Phthalates	IEC 62321-8:2017	GC-MS
全氟辛烷磺酸 Perfluorooctane Sulfonates(PFOS)	參考DIN CEN/TS 15968:2010 Refer to DIN CEN/TS 15968:2010	LC-MS-MS
全氟辛酸 Perfluorooctanoic Acid(PFOA)	參考DIN CEN/TS 15968:2010 Refer to DIN CEN/TS 15968:2010	LC-MS-MS

檢測報告
Test Report

檢測結果 Test Result(s)

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
鉛 Lead (Pb)	N.D.	2 mg/kg
鎘 Cadmium (Cd)	N.D.	2 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg
六價鉻 Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
多溴聯苯 Polybrominated Biphenyls (PBBs)		
一溴聯苯 Monobromobiphenyl	N.D.	5 mg/kg
二溴聯苯 Dibromobiphenyl	N.D.	5 mg/kg
三溴聯苯 Tribromobiphenyl	N.D.	5 mg/kg
四溴聯苯 Tetrabromobiphenyl	N.D.	5 mg/kg
五溴聯苯 Pentabromobiphenyl	N.D.	5 mg/kg
六溴聯苯 Hexabromobiphenyl	N.D.	5 mg/kg
七溴聯苯 Heptabromobiphenyl	N.D.	5 mg/kg
八溴聯苯 Octabromobiphenyl	N.D.	5 mg/kg
九溴聯苯 Nonabromobiphenyl	N.D.	5 mg/kg
十溴聯苯 Decabromobiphenyl	N.D.	5 mg/kg

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)		
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	5 mg/kg
三溴二苯醚 Tribromodiphenyl ether	N.D.	5 mg/kg
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5 mg/kg
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5 mg/kg
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5 mg/kg
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5 mg/kg
八溴二苯醚 Octabromodiphenyl ether	N.D.	5 mg/kg
九溴二苯醚 Nonabromodiphenyl ether	N.D.	5 mg/kg
十溴二苯醚 Decabromodiphenyl ether	N.D.	5 mg/kg

檢測報告
Test Report

檢測結果 Test Result(s)

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
鄰苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)		
鄰苯二甲酸丁基苄基酯 Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg
鄰苯二甲酸二(2-乙基)己酯 Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg
鄰苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
鄰苯二甲酸二異丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
氟 Fluorine (F)	N.D.	50 mg/kg
氯 Chlorine (Cl)	N.D.	50 mg/kg
溴 Bromine (Br)	N.D.	50 mg/kg
碘 Iodine (I)	N.D.	50 mg/kg

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
鄰苯二甲酸酯 Phthalates		
鄰苯二甲酸二異癸酯 Di-iso-decyl phthalate (DIDP) CAS#:26761-40-0,68515-49-1	N.D.	50 mg/kg
鄰苯二甲酸二異壬酯 Di-isononyl phthalate (DINP) CAS#:28553-12-0,68515-48-0	N.D.	50 mg/kg
鄰苯二甲酸二正辛酯 Di-n-octyl phthalate (DNOP) CAS#:117-84-0	N.D.	50 mg/kg

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
全氟辛酸 Perfluorooctanoic Acid (PFOA)	N.D.	0.01 mg/kg

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
全氟辛烷磺酸 Perfluorooctane Sulfonates (PFOS)	N.D.	0.01 mg/kg

檢測報告
Test Report

樣品/部位描述 白色固體
Sample/Part Description White solid

備註: **對於檢測鉛，鎘，汞之樣品已消解完全。**
-N.D. = 未檢出 (小於方法檢出限)
-mg/kg = ppm = 百萬分之一

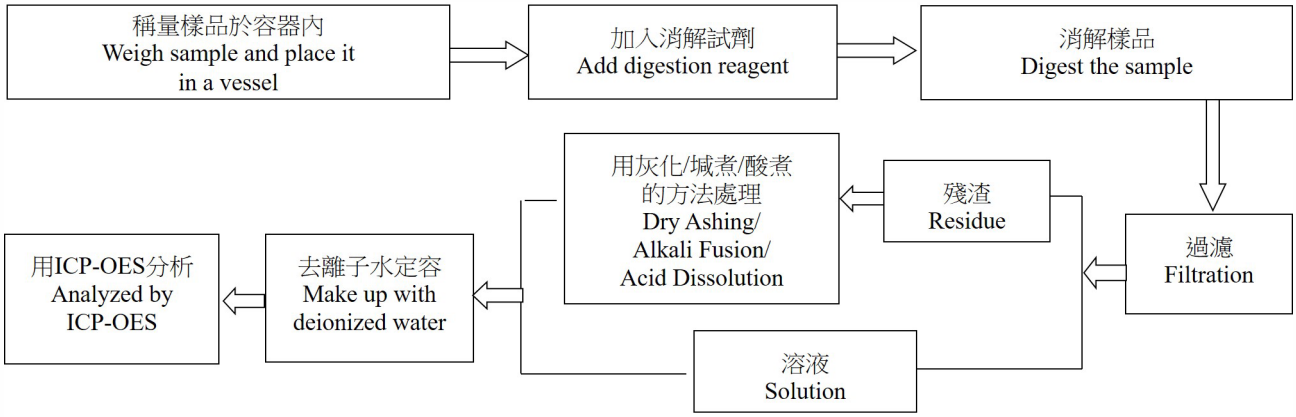
Remark: **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million

注釋: **本報告中的資料結果供科研、教學、企業內部品質控制、企業產品研發等目的用。**
Note: **The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.**

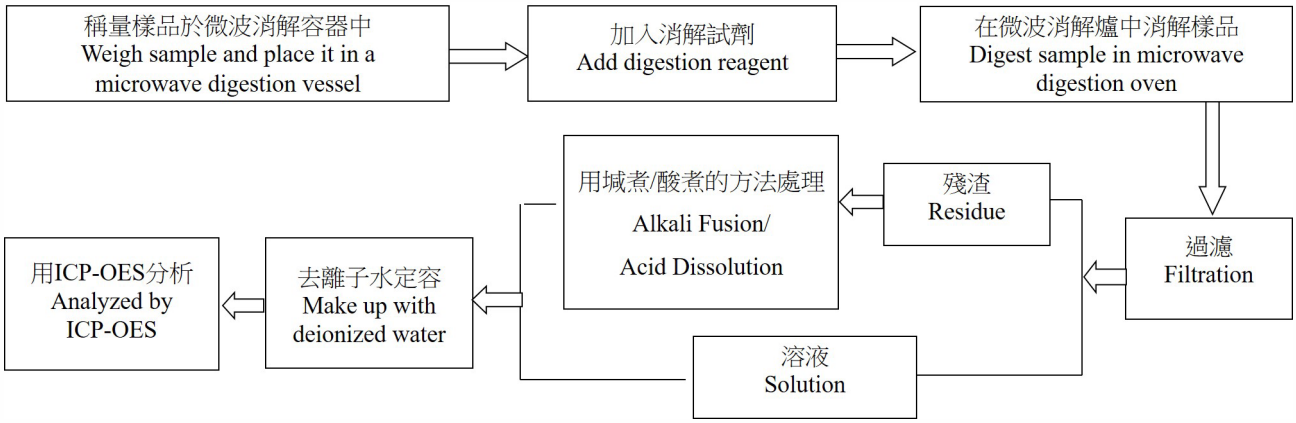
檢測報告
Test Report

檢測流程 Test Process

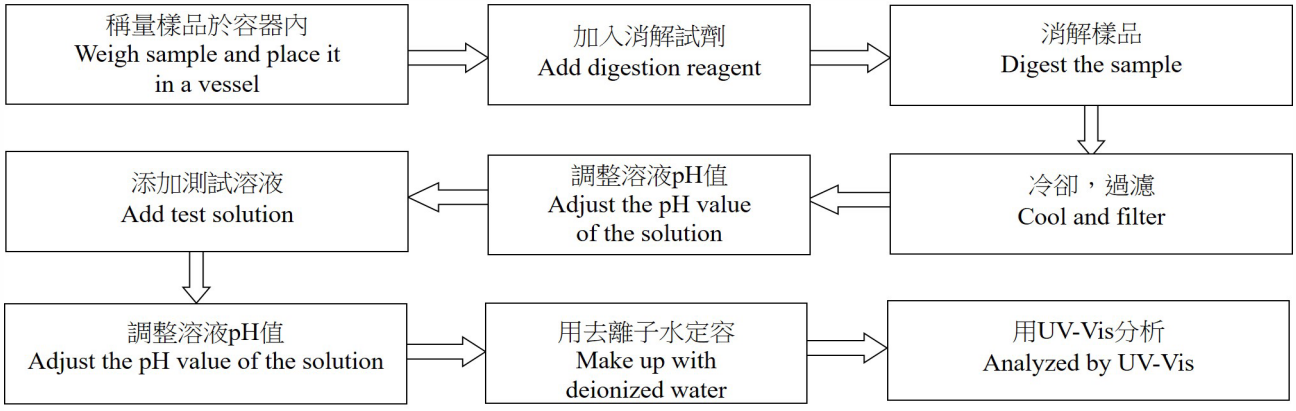
1. 鉛(Pb), 鎘(Cd)
Lead (Pb), Cadmium (Cd)



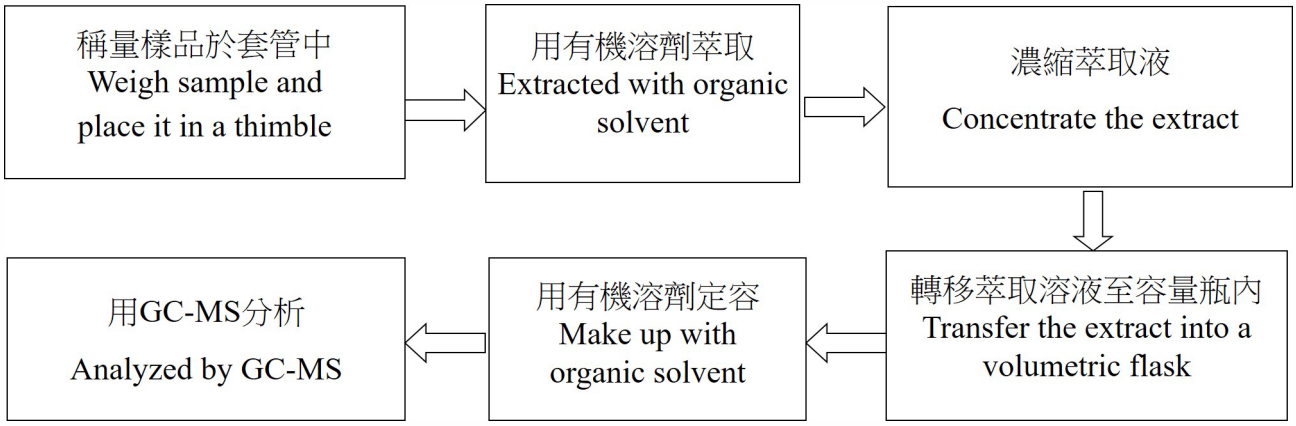
2. 汞(Hg)
Mercury (Hg)



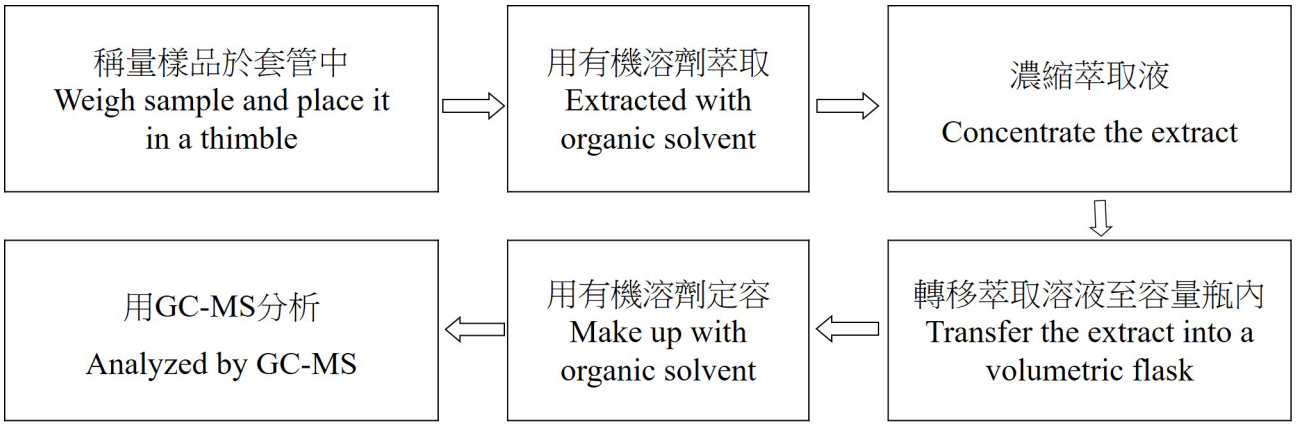
3. 六價鉻(Cr(VI))
Hexavalent Chromium (Cr(VI))



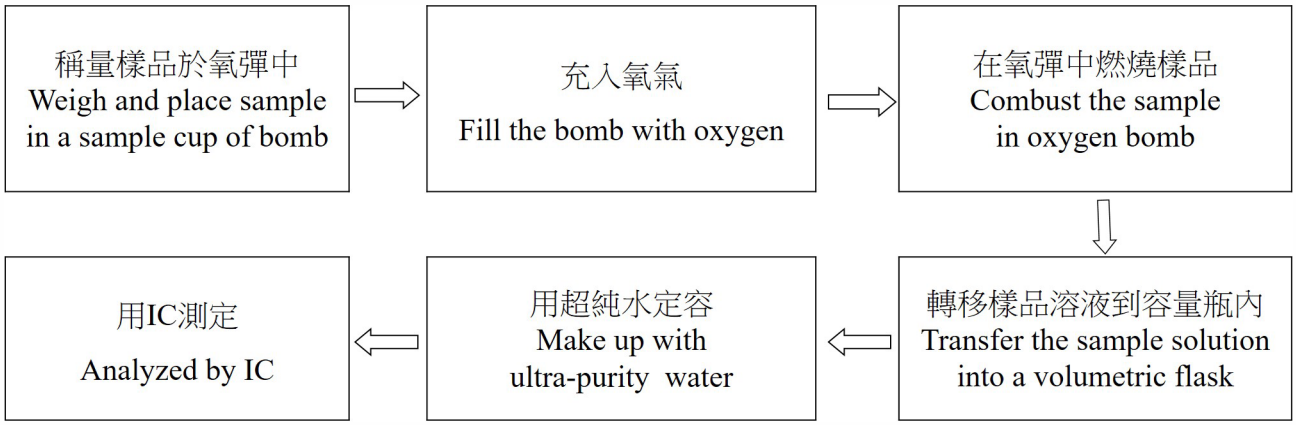
4. 多溴聯苯(PBBs)， 多溴二苯醚(PBDEs)
Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)



5. 鄰苯二甲酸酯(DBP, BBP, DEHP, DIBP)， 鄰苯二甲酸酯
Phthalates (DBP, BBP, DEHP, DIBP), Phthalates

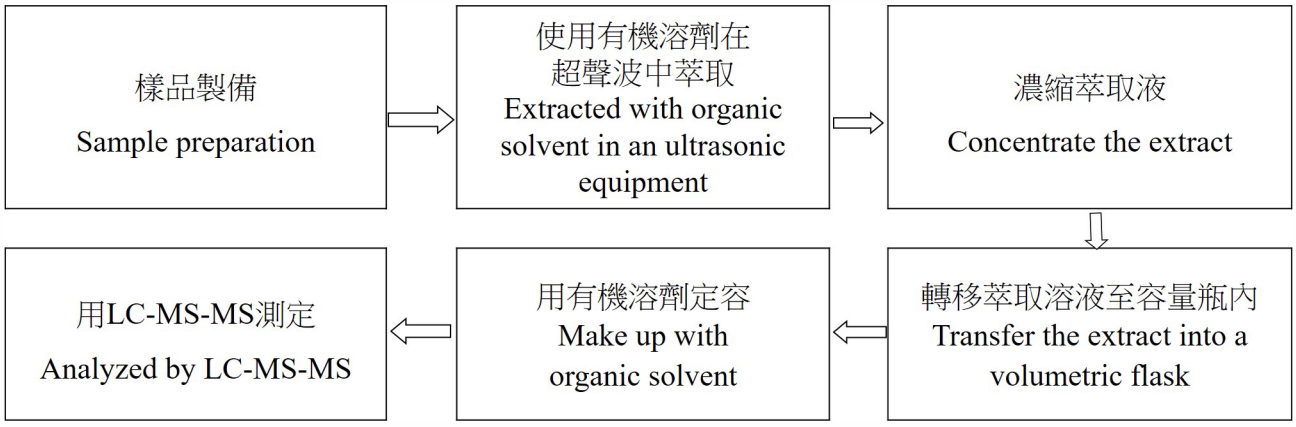


6. 氟(F)， 氯(Cl)， 溴(Br)， 碘(I)
Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I)



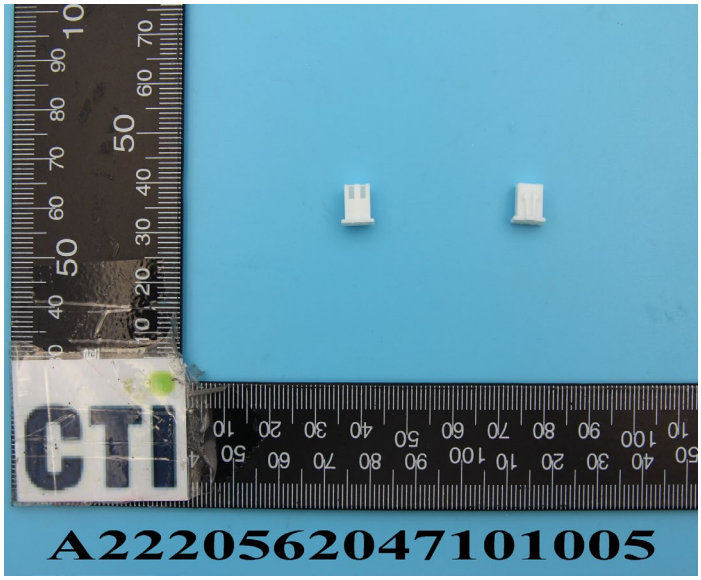
檢測報告
Test Report

7. 全氟辛酸(PFOA)， 全氟辛烷磺酸(PFOS)
Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS)



檢測報告
Test Report

樣品圖片
Photo(s) of the sample(s)



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CTI 华测检测

檢測報告
Test Report

報告編號 A2210554605101003E
Report No. A2210554605101003E

報告抬頭公司名稱 Company Name shown on Report	旗欣股份有限公司 EVER CONNECTOR INDUSTRIAL CO.,LTD
地 址 Address	高雄市岡山區本洲路 91 巷 1 號 NO. 1, LN. 91, BENZHOU RD., GANGSHAN DIST., KAOHSIUNG CITY 820,TAIWAN (R.O.C.)

以下測試之樣品及樣品信息由申請者提供並確認
The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

樣品名稱 Sample Name	TERMINAL-PHOSHOR BRONZE
樣品型號 Part No.	2012-PB 2531-P
樣品接收日期 Sample Received Date	2021.12.30 Dec. 30, 2021
樣品檢測日期 Testing Period	2021.12.30 - 2022.01.06 Dec. 30, 2021 to Jan. 6, 2022
檢測要求 Test Requested	根據客戶要求，對所提交樣品中的鉛(Pb)，鎘(Cd)，汞(Hg)，六價鉻(Cr(VI))，多溴聯苯(PBBs)，多溴二苯醚(PBDEs)，鄰苯二甲酸酯(DBP, BBP, DEHP, DIBP)，全氟辛烷磺酸(PFOS)，全氟辛酸(PFOA)進行測試。 As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Perfluorooctane Sulfonates (PFOS), Perfluorooctanoic Acid (PFOA) in the submitted sample(s).
檢測依據/檢測結果 Test Method/Test Result(s)	請參見下頁。 Please refer to the following page(s).

主檢 Tested by	許哲誠	審核 Reviewed by	黃文昕
批准 Approved by	馮智聰	日期 Date	2022.01.06

馮智聰
實驗室經理 Laboratory Manager

台灣華測檢測技術有限公司 CTI 測試專用章 Testing Services

No. R392333971

台灣華測檢測技術有限公司檢測中心
Testing Center, Centre Testing International (Taiwan) Co., Ltd.
桃園市蘆竹區南崁路二段 9 號 5 樓之 6
5F-6, No.9, Sec.2, Nankan Rd, Luzhu Dist., Taoyuan, Taiwan

檢測報告
Test Report

檢測依據 Test Method

測試項目 Tested Item(s)	測試方法 Test Method	測試儀器 Measured Equipment(s)
鉛 Lead(Pb)	IEC 62321-5:2013	ICP-OES
鎘 Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
汞 Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
六價鉻 Hexavalent Chromium(Cr(VI))	IEC 62321-7-1:2015	UV-Vis
多溴聯苯 Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
鄰苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
全氟辛烷磺酸 Perfluorooctane Sulfonates (PFOS)	參考 DIN CEN/TS 15968:2010 Refer to DIN CEN/TS 15968:2010	LC-MS-MS
全氟辛酸 Perfluorooctanoic Acid (PFOA)	參考 DIN CEN/TS 15968:2010 Refer to DIN CEN/TS 15968:2010	LC-MS-MS

檢測報告
Test Report

檢測結果 Test Result(s)

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
鉛 Lead (Pb)	N.D.	2mg/kg
鎘 Cadmium (Cd)	N.D.	2mg/kg
汞 Mercury (Hg)	N.D.	2mg/kg
六價鉻 Hexavalent Chromium (Cr(VI))	N.D.▼	0.10 μg/cm^2 (LOQ)

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
多溴聯苯 Polybrominated Biphenyls(PBBs)		
一溴聯苯 Monobromodiphenyl	N.D.	5mg/kg
二溴聯苯 Dibromobiphenyl	N.D.	5mg/kg
三溴聯苯 Tribromobiphenyl	N.D.	5mg/kg
四溴聯苯 Tetrabromobiphenyl	N.D.	5mg/kg
五溴聯苯 Pentabromobiphenyl	N.D.	5mg/kg
六溴聯苯 Hexabromobiphenyl	N.D.	5mg/kg
七溴聯苯 Heptabromobiphenyl	N.D.	5mg/kg
八溴聯苯 Octabromobiphenyl	N.D.	5mg/kg
九溴聯苯 Nonabromobiphenyl	N.D.	5mg/kg
十溴聯苯 Decabromobiphenyl	N.D.	5mg/kg

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
多溴二苯醚 Polybrominated Diphenyl Ethers(PBDEs)		
一溴二苯醚 Monobromodiphenyl ether	N.D.	5mg/kg
二溴二苯醚 Dibromobiphenyl ether	N.D.	5mg/kg
三溴二苯醚 Tribromobiphenyl ether	N.D.	5mg/kg
四溴二苯醚 Tetrabromobiphenyl ether	N.D.	5mg/kg
五溴二苯醚 Pentabromobiphenyl ether	N.D.	5mg/kg
六溴二苯醚 Hexabromobiphenyl ether	N.D.	5mg/kg
七溴二苯醚 Heptabromobiphenyl ether	N.D.	5mg/kg
八溴二苯醚 Octabromobiphenyl ether	N.D.	5mg/kg
九溴二苯醚 Nonabromobiphenyl ether	N.D.	5mg/kg
十溴二苯醚 Decabromobiphenyl ether	N.D.	5mg/kg

檢測報告
Test Report

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
鄰苯二甲酸酯 Phthalates(DBP, BBP, DEHP, DIBP)		
鄰苯二甲酸二正丁酯(DBP) Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
鄰苯二甲酸丁基苄酯(BBP) Benzylbutyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
鄰苯二甲酸二(2-乙基己基)酯(DEHP) Di-2-ethylhexyl phthalate(DEHP) CAS#:117-81-7	N.D.	50 mg/kg
鄰苯二甲酸二異丁酯(DIBP) Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg

測試項目 Tested Item(s)	結果 Result	方法檢出限 MDL
全氟辛烷磺酸 Perfluorooctane Sulfonates (PFOS)	N.D.	0.01 mg/kg
全氟辛酸 Perfluorooctanoic Acid (PFOA)	N.D.	0.01 mg/kg

樣品/部位描述 銀色金屬
Sample/Part Description Silvery metal

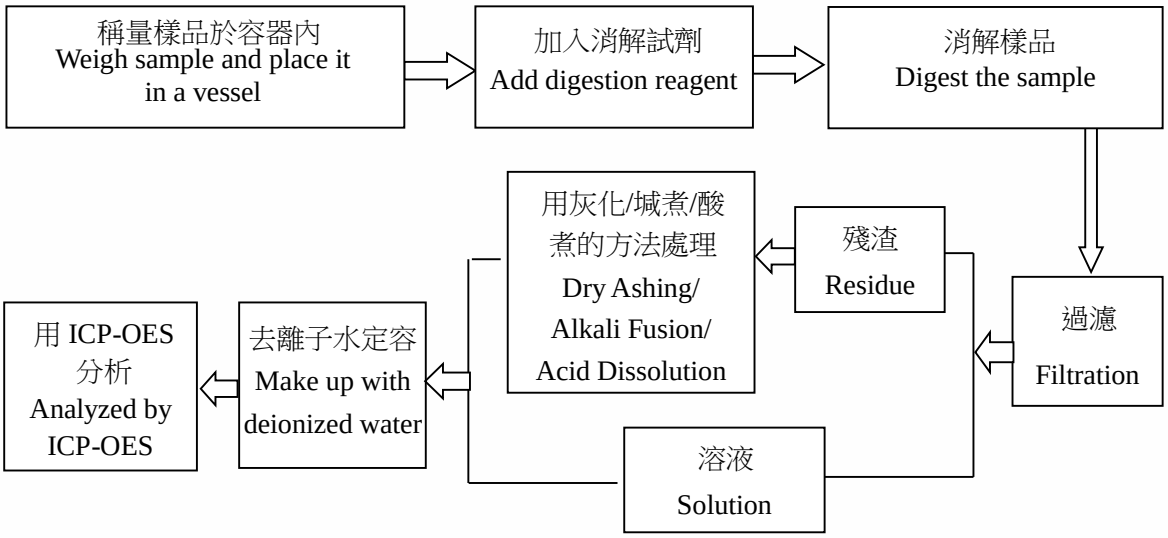
備註: **對於檢測鉛，鎘，汞之樣品已完全溶解。**
-N.D. = 未檢出(小於方法檢出限或定量限)
-mg/kg = ppm = 百萬分之一
-LOQ = 定量限，六價鉻的定量限為 0.10 μg/cm^2。
-▼濃度小於 0.10 μg/cm^2，樣品未檢出六價鉻。

Remark: **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL or LOQ)
-mg/kg = ppm = parts per million
-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm^2
-▼The sample is negative for Cr(VI) − The Cr(VI) concentration is below 0.10 μg/cm^2. The coating is considered a non-Cr(VI) based coating.

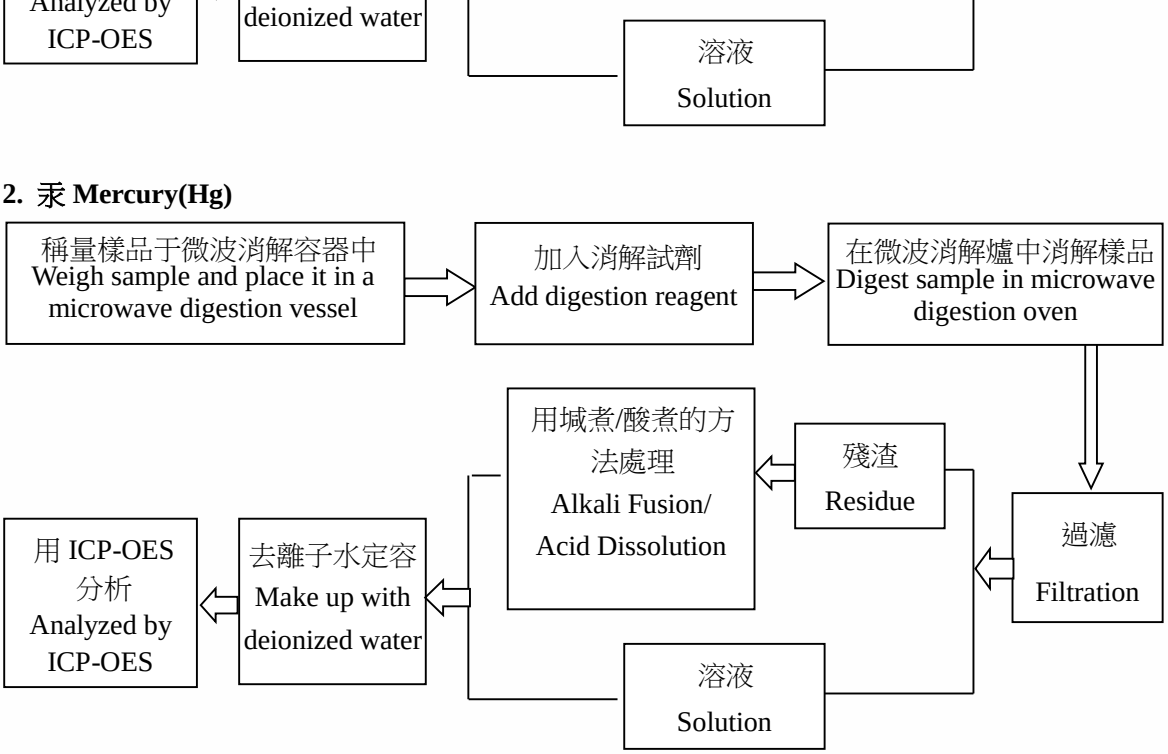
檢測報告
Test Report

檢測流程 Test Process

1. 鉛 Lead(Pb), 鎘 Cadmium(Cd)

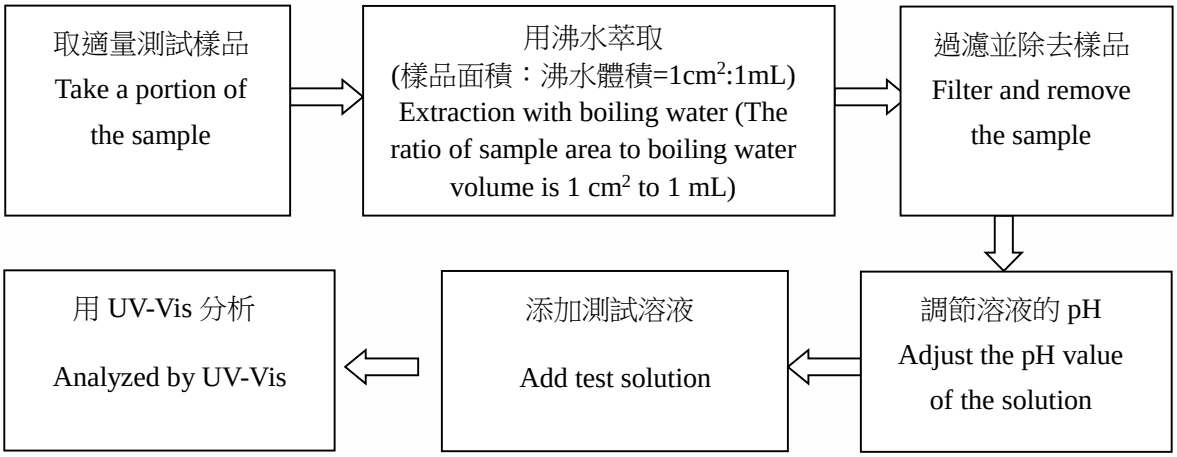


2. 汞 Mercury(Hg)

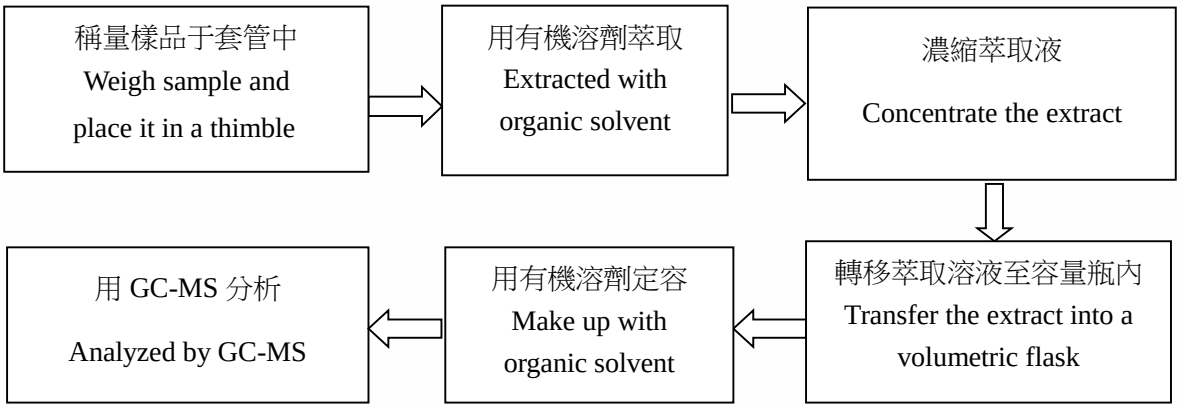


檢測報告
Test Report

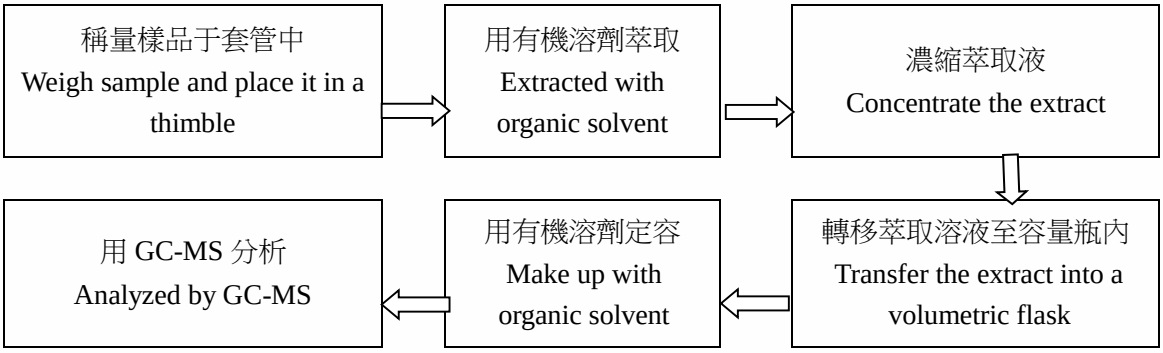
3. 六價鉻 Hexavalent Chromium(Cr(VI))



4. 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs),多溴聯苯 Polybrominated Biphenyls(PBBs)

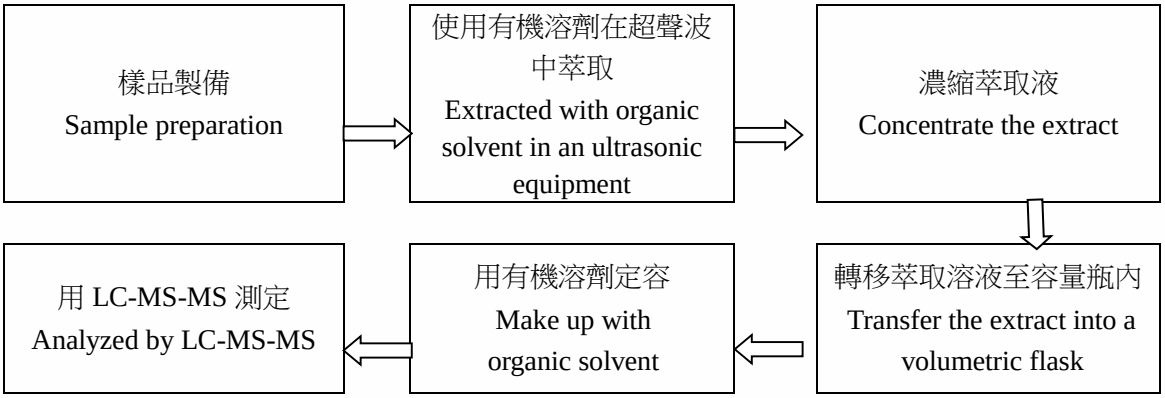


5. 鄰苯二甲酸酯 Phthalates(DBP, BBP, DEHP, DIBP)



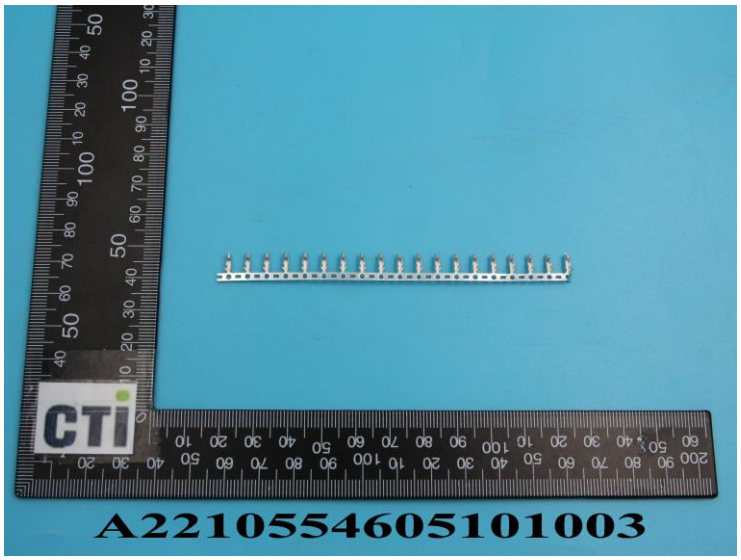
6. 全氟辛烷磺酸(PFOS)，全氟辛酸(PFOA)

Perfluorooctane Sulfonates (PFOS), Perfluorooctanoic Acid (PFOA)



檢測報告
Test Report

Photo(s) of the sample(s)



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Test Report

No. CANEC2112140107 Date: 12 Jul 2021 Page 1 of 6

HUIZHOU YUNCHUANG ELECTRONICS CO., LTD

HUIZHOU LONGXI ENVIRONMENTAL PROTECTION ELECTROPLATING INDUSTRIAL PARK 408B-2F

The following sample(s) was/were submitted and identified on behalf of the clients as : tin plated

SGS Job No. :	CP21-035199 - SZ
Date of Sample Received :	05 Jul 2021
Testing Period :	05 Jul 2021 - 09 Jul 2021
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

scan to see the report

CANEC2112140107

Dongyu Xie
Approved Signatory

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中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 sgs.china@sgs.com

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN21-121401.002	Silvery plated metal sheet

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 , 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	11
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

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Chemical Laboratory
检验检测专用章 Inspection & Testing Services

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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.

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

(3) ▾= 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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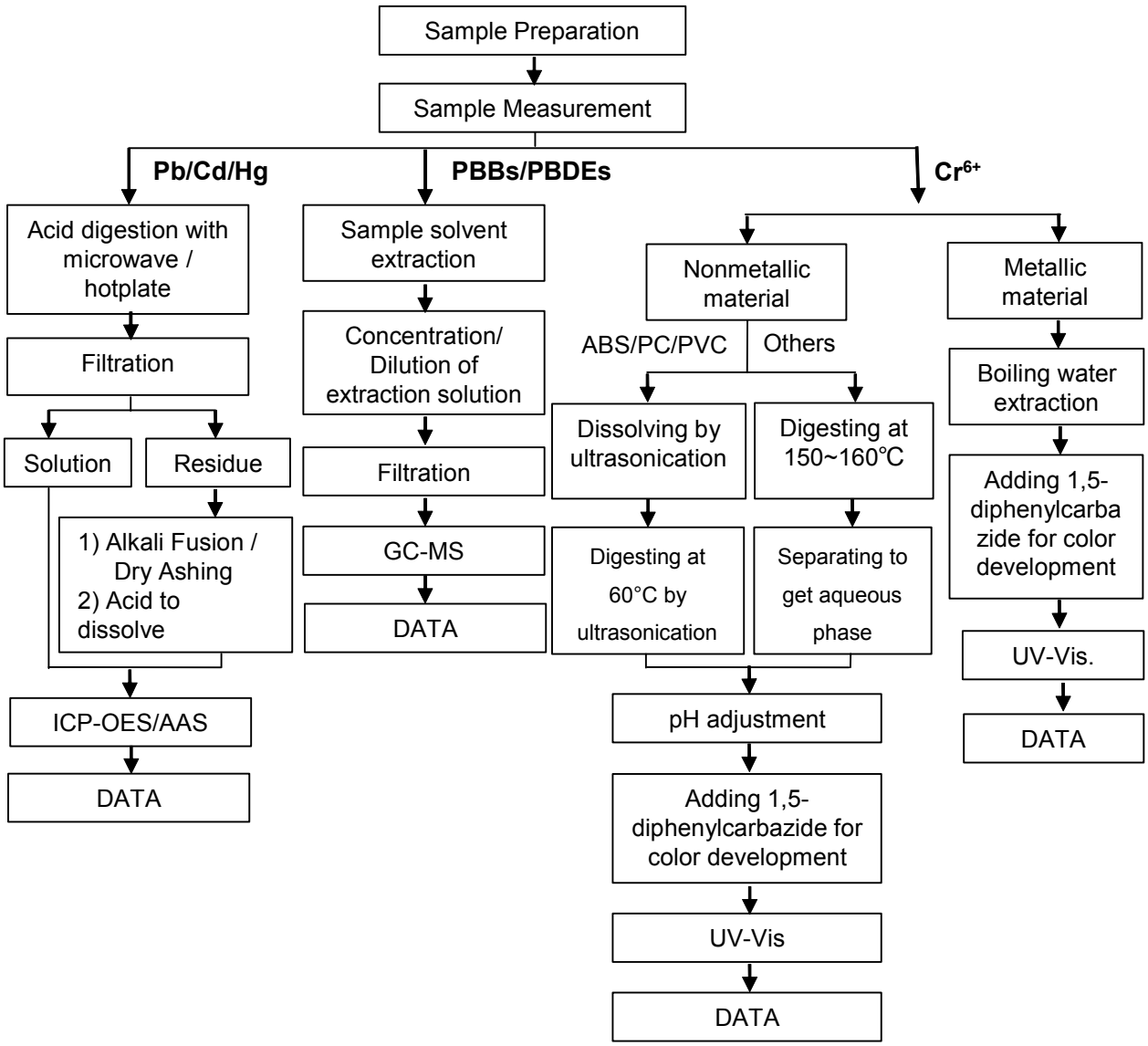
Pb/Cd/Hg/Cr^{6+}/PBBs/PBDEs Testing Flow Chart

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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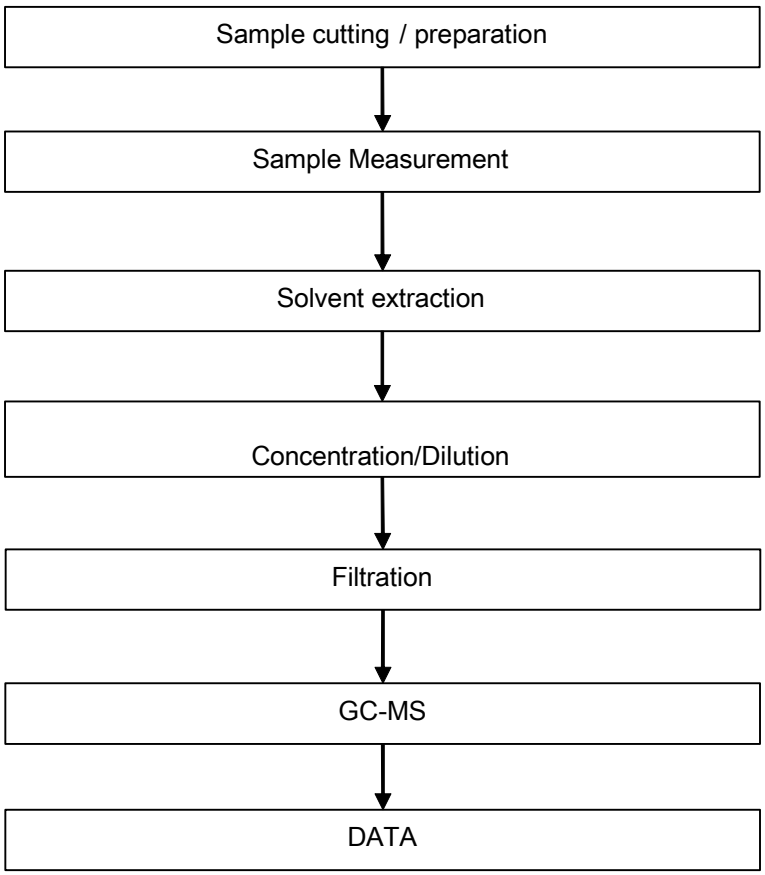
Phthalates Testing Flow Chart



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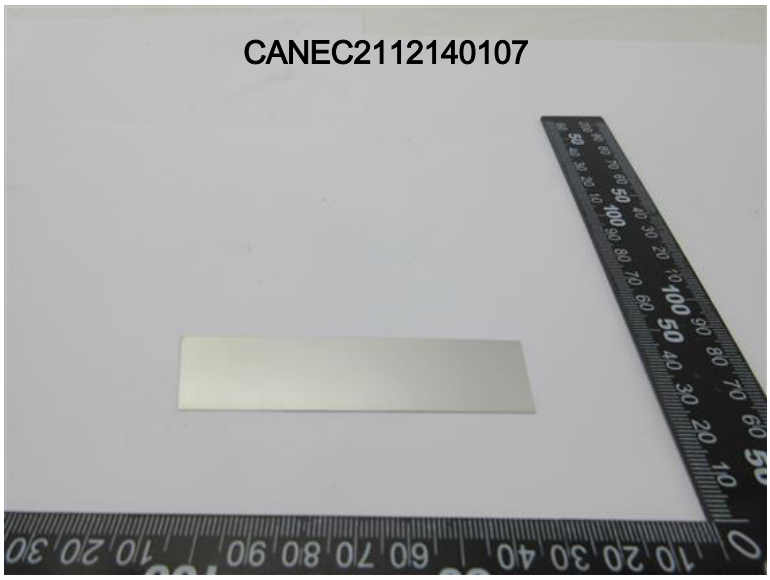
Sample photo:



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