承认书

Approval Sheet

客户(Customer): /

客户料号 (Cus . P/N): /

华联威料号 (HLW P/N): U573-441B-G61018

品名规格 (PronameSpec): TYPE C 3.1 夹板脚长 1.5

送样日期 (Delivery Date):2022/03/21

承认日期 (Acknowledge Date): 2022/03/21

Approved No:	客	户	
	Custo	omer	
采 购 部	品 质 部	工程部	确认
Purchasing Dept	QC Dept	Engineering Dept	Approved By
深圳	市华联威电	子科技有限公司	
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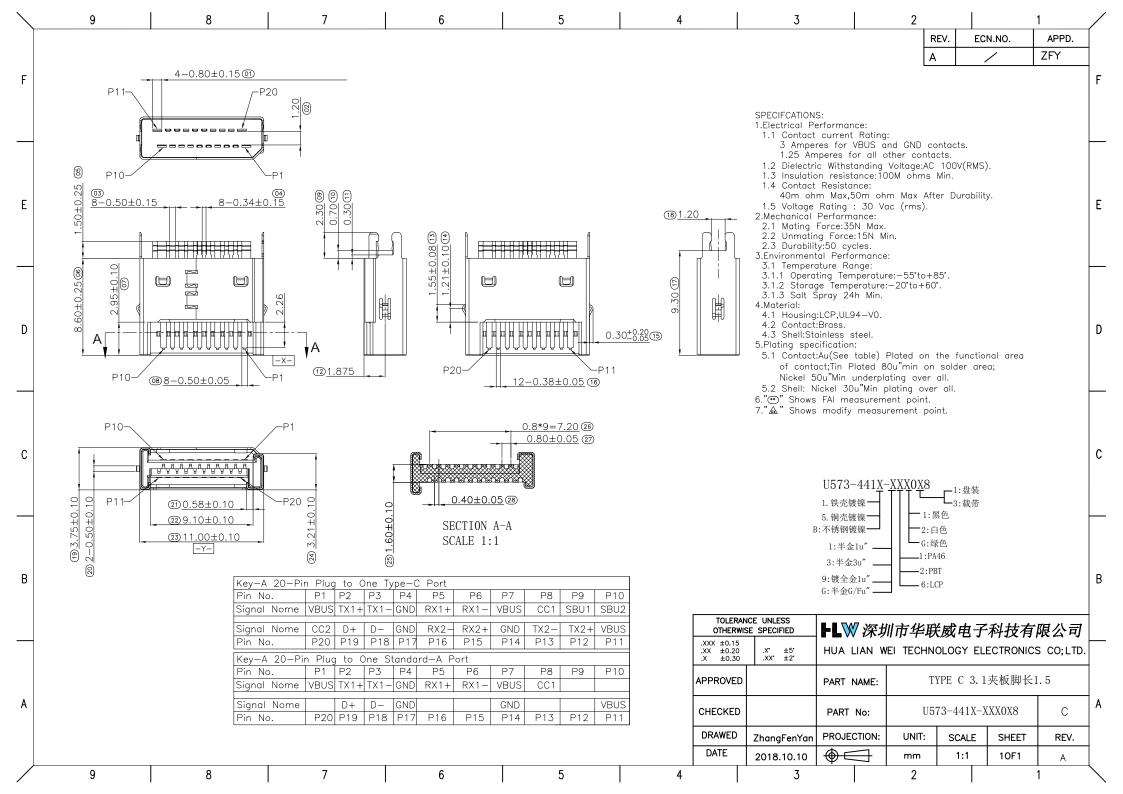
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目 录

Contents

图纸	Page03
产品规格书	Page04-09
产品检测报告	Page10-11
尺寸测试报告	Page12
电镀报告	Page13-14
盐雾报告	Page15
材质证明	Page16-18
SGS	. Page19-56



深圳市华联威电子科技有限公司 HUA LIAN WEI TECHNOLOGY ELECTRONICS CO., LTD

HDMI系列产品SPEC 适用范围 通用 版本版次: C 制定日期 20200707 Scope (范围) 1.1 Contents(内容) This specification covers the performance, tests and quality requirements for the Electronics HDMI Connector. (此份产品规格适用于HDMI连接器的产品功能,测试方法及质量要求) 2. Requirements (要求): 2.1 Rating(额定条件) Voltage rating(额定电压):40V AC A. B. Current rating(额定电流):0.5A C. Operation Temperature Range(操作温度范围):-30℃ to +85℃ 3. Test Condition(测试条件): 3.1 Temperature range(温度范围):+15℃ to +35℃ 3.2 Humidity range (湿度范围):25% to 85% Test Methods and Requirements:(测试方法及要求) 4.1 Examination of product (产品外观) 4.1.1 Examination of Visual No peeling off the plating deformation of Product the base or damage. 不得有电镀层剥 目视 产品外观 落,塑料变形或破损 4.2. Electrical Performance(电气性能) 4.2.1 Contact (EIA-364-06B) Initial Contact resistance Excluding Resistance Mated connectors, conductor Resistance:30 mΩ max (Target 接触阻抗 Contact: measure by dry circuit, 20 m Volts design value) maximum,10 mA 接触电阻初始值最大不能超过30 mQ Shell: measure by open circuit, 5 Volts (目标设计值) maximum, 100 mA 配对的连接器, 端子:测试端子在回路中施加直流最大20mV 10mA的电流再测端子的电阻值 外壳:测试外壳在开路中施加电流最大5V 100mA的电流再测外壳的电阻值 Dielectric (EIA-364-20C) 1. No Breakdown or flashover Withstanding Unmated connectors, apply 500V AC (RMS.) for 2. Leakage current: 0.5mA Max 4.2.2 Voltage 1 minute between adjacent terminals of ground. (耐电压) Mated connectors, apply 300V AC (RMS.) for 1 1. 不能有损坏或跳火花 2. 漏电流<0.5mA minute between adjacent terminals of ground. 没有配对的连接器在相邻的端子或接地之间 通上500V的交流电压1分钟

配对的连接器在相邻的端子或接地之间通上

300V的交流电压1分钟

			,
4.2.3	Insulation	(EIA-364-21C)	100M $Ω$ min (unmated)
	Resistance	Unmated connectors, apply 500V DC for 1	10 MΩ min (mated)
	绝缘阻抗	minute between adjacent terminals of ground.	
		Mated connectors, apply 100V DC for 1 minute	没有配对需大于100 ΜΩ
		between adjacent terminals of ground.	配对需大于10 MΩ
		没有配对的连接器在相邻的端子或接地之间	
		通上500V的直流电压1分钟	
		配对的连接器在相邻的端子或接地之间通上	
		150V的直流电压1分钟	
4.3Me	chanical Performa	nce(机械性能)	
4.3.1	Insertion/Withdr	(EIA-364-13)	Maximum insertion force
	awal	Insertion and withdrawal speed:	44.1N 插入力不超过44.1N(4.5kg)
	Force	25mm/minute.	Withdrawal force9.8N min
	插入力/拔出力	插入和拔出的速度为25mm/分	39.2N max 拔出力9.8-39.2N(1.0-4.0kg)
	3F7 47 47 E17 4	(A) (1) 4)(A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	201211 (List 11018)
4.3.2	Durability	(EIA-364-09)	Contact Resistance 接触阻抗
	寿命测试	Measure contact and shell resistance after the	Contact: Change from initial
	2 114 0/2 14 (Following.	Value: 30 milliohms maximum.
		Automatic cycling:10000 cycles at 100±5	Shell: Change from initial
		Cycles per hour.	Value: 50 milliohms maximum.
		以每小时100±5的插拔次数测试10000循环后	端子: 从初始值开始变化量小于30mΩ
		测量端子和外壳的接触阻抗	外壳:从初始值开始变化量小于50mΩ
4.3.3	Vibration	(EIA-364-28条件3)	Appearance: No damage
	振动	Amplitude:1.52mm P-P or 147m/s^2 {15G}	外观:无损坏
		Sweep time: 50-2000-50Hz in 20 minutes.	Contact Resistance 接触阻抗
		Duration: 12 times in each (total of 36 times) X,	Contact: Change from initial
		Y, Z, axes.	Value:30mΩ Max.
		Electrical load DC 100mA current shall be flowed	端子: 从初始值开始变化量小于30mΩ
		during the test.(ANSI/EIA-364-28 Condition III)	Shell Part: Change from initial
		在直流100毫安通电状态下测试,在X,Y,Z垂直	Value:50mΩ Max.
		3方向上,频率50-2000-50赫兹(加速度往复	外壳:从初始值开始变化量小于50 mΩ
		20分钟),全振幅1.52mm P-P或147 m/s^2	Discontinuity: 1μ sec Max.
		{15G},每轴12回计36回	间断性:不超过1微秒
4.3.4	Physical shock	(EIA-364-27条件A)	Appearance: No damage
	冲击性	Pulse width: 11msec	外观:无损坏
	1 1 14 14	Waveform: Half-sine	Contact Resistance 接触阻抗
			Contact: Change from initial
		490m/s² (50G) 3 strokes in each X, Y, Z axes.	Value 30mΩ Max
		(ANSI/EIA-364-27 condition A)	
		周期: 11msec	端子: 从初始值开始变化量小于30mΩ
		冲击波形: 正弦半波490m/s²(50G)3循环	Shell Part: Change from initial
		在X, Y, Z 轴	Value 50mΩ Max
			外壳:从初始值开始变化量小于50mΩ
			Discontinuity: 1μ sec Max.
			间断性:不超过1微秒
1 1 En	vironmental Perfo	rmance	
4.4 EII	vii Oillilellilai PellO	IIIIaiicE	

4.42	Thermal shock test 冷热冲击 Solder ability	EIA-364-32C条件1) 10 cycles of: a)-55±3℃ for 30 minutes b) +85±3℃ for 30 minutes 10个循环, a)-55±3℃ 30 分钟 b) +85±3℃ 30 分钟	Appearance: No Damage. 外观:没有损坏 Contact Resistance 接触阻抗 Contact: Change from initial Value 30mΩ Max Shell Part: Change from initial Value 50mΩ Max 端子:从初始值开始变化量小于30mΩ 外壳:从初始值开始变化量小于50mΩ
	焊锡性	To be sipped in the solder bath 260±5℃ Coverage for 3 seconds.将焊锡脚浸在260±5℃ 的锡炉中<3秒	have 90% solder coverage minimum 表面粘锡面积不少于90%
4.43	Humidity 恒温恒湿	(A) Mate connectors together and perform the test as follows 配对的连接器测试条件 Temperature: -25℃ to +85℃(温度: -25℃到+85℃) Relative Humidity: 80% to 90%(相对湿度: 80%到90%) Duration:4 cycles(96 hours) (持续时间: 4个循环共96小时) Upon completion of the test, specimens shall be conditioned ambient room conditions for 24 hours, after which the specified measurements shall be performed. 试验完成后,样品放置于室温条件中24小时后再进行测试	Appearance: No Damage 外观,没有损坏 Contact Resistance 接触阻抗 Contact: Change from initial Value 30mΩ Max Shell Part: Change from initial Value 50mΩ Max 端子: 从初始值开始变化量小于30mΩ 外壳: 从初始值开始变化量小于50mΩ
		(B) Unmated each connector and perform the test as follows. 没有配对的连接器测试条件 Temperature: +25℃ to +85℃(温度: +25℃到+85℃) Relative Humidity: 80% to 90%(相对湿度: 80%到90%) Duration:4 cycles(96 hours) (持续时间: 4个循环共96小时) Upon completion of the test, specimens shall be conditioned ambient room conditions for 24 hours, after which the specified measurements shall be performed. 试验完成后,样品放置于室温条件中24小时后再进行测试	Appearance: No Damage 外观,没有损坏 Conform to item of dielectric withstanding Voltage and Insulation Resistance. 符合耐电压及绝缘阻抗要求

4.44	Salt Spray 盐水喷雾	EIA-364-26B) Temperature: 35±2℃ 温度: 35±2℃ Concentration for salt: 5% 盐水浓度: 5% (1)Duration: 24H 持续时间: 24小时 Condition(条件): Contact plated gold more than 15u″ (include 15 u″), and the material of shell for copper alloy, or stainless. 端子镀金厚度大于等于15 u″且壳体材质是铜合金或是不锈钢 (2) Duration: 12H 持续时间: 12小时 Condition(条件): Contact plated gold less than 15 u″, and/or the material of shell for steel 端子镀金厚度小于15u″且/或壳体材质是铁	No detrimental corrosion(Terminal solder tail unrequested) 产品无氧化,锈蚀(端子焊脚镀锡处不作要求) Contact Resistance 接触阻抗 Contact: Change from initial Value 30mΩ Max Shell Part: Change from initial Value 50mΩ Max 端子: 从初始值开始变化量小于30mΩ 外壳: 从初始值开始变化量小于50mΩ
4.45	Cold resistance (Unmated) 冷阻抗	Unmated connectors and expose to -40±3℃ for 250 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. 没配对的连接器放置于-40±3℃温度中250小时,当完成实验后,样品放置一般环境中1到2小时后,在进行测试	Appearance: No Damage. 外观:没有损坏 Contact Resistance 接触阻抗 Contact: Change from initial Value 30mΩ Max Shell Part: Change from initial Value 50mΩ Max 端子:从初始值开始变化量小于30mΩ 外壳:从初始值开始变化量小于50mΩ
4.46	Heat resistance (Unmated) 热阻抗	(EIA-364-17B) Mated connectors and expose to 85±2℃ for 96 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. 配对的连接器放置于85±2℃温度中96小时,当完成实验后,样品放置一般环境中1到2小时后,在进行测试	
4.47	Thermal Aging 高温老化	(EIA-364-31B, Condition 4, Method A) Unmated connectors and expose to +105±2℃ for 250 hours. Upon completion of the exposure period, the test specimens shall be conditioned at ambient room conditions for 1 to 2 hours, after which the specified measurements shall be performed. 没配对的连接器放置于+105±2℃温度中250小时,当完成实验后,样品放置一般环境中1到	Contact: Change from initial Value $30m\Omega$ Max

4.4.8 Resistance to for wave soldering: mil-std-202f,method 210 No physical damage shall occur. Soldering Heat A,test condition B 不可有损坏 波峰焊: mil-std-202f, method 210 A, 试验条 件B Pre-heat :80℃,60 Seconds 预热:80℃,60秒 Temperature : 260 ± 5 ℃ 温度:260±5℃ Immersion duration: 10 ± 1 sec. 浸泡时间:10±1 for manual soldering:手动焊接: mil-std-202f, method 210 A, test condition A Pre-heat : No预热:没有 : 350 ± 10 ℃温度:350±10℃ Temperature Immersion duration: 3.5±0.5 sec. 浸泡时 间:3.5±0.5秒 温度℃ 10s 260°C 升温速度 4℃/s 降温速度 4℃/s 220°C 180°C 100s 升温速度 4℃/s 温度曲线以本体作 120s 为测试点 时间s 时间: \

Note 1: Shall meet visual requirements, show no physical damage, and meet requirement of additional tests as specified in the test sequence in Figures 2

说明1:测试要求不能有物理损坏,测试依据表格二的顺序进行

3.Product Qualification And Requalification Test:产品测试顺序表 Figure 2

Test or Examination		Test Group												
	Α	В	С	D	Е	F	G	Н	I	J	K	L	М	N
		_	-	_	Tes	t Sequ	ence		-	_	_	-	-	_
4.1.1.Examination of Product 产品外观	1,9	1,3	1,5	1	1,5	1,5	1,5	1,3	1,5	1,5	1,5	1,5	1,5	1
4.2.1.Contact Resistance 接触阻抗	2,8		2,4		2,4	2,4	2,4		2,4	2,4	2,4	2,4	2,4	
4.2.2.Dielectric Withstanding Voltage	3,7													
4.2.3.Insulation Resistance 绝缘阻抗	4,6													
4.3.1.Insertion/Withdra wal force 插拔力		2												
4.3.2.Durability 寿命测 试			3											
4.3.3.Vibration 振动性					3									

					3								
						ന							
							2						
5								3					
									3				
										3			
											3		
												3	
													2
5	5	5	5	5	5	5	5	5	5	5	5	5	5
						5 3 4 3 4 3 4 3 4 3 4 3 4	5 3 4 4 5 4 6 4 7 4 8 4 9 4 10 4	5 1 1 1 1 2 1 1 1 1 1 1 2 1 1 1 1 1 1 3 2 1 </td <td>5 1 1 1 1 2 1 1 1 1 1 3 2 3 3 3 3 3 1 1 1 1 3 4 1 1 1 1 1 1 5 1 <td< td=""><td>1 1 1 3 1 1 2 2 3 3 5 1 1 1 3 3 1 1 1 1 1 3 3 1 1 1 1 1 1 3 1 1 <td< td=""><td>Image: color of the color</td><td>3 3</td><td>3 3</td></td<></td></td<></td>	5 1 1 1 1 2 1 1 1 1 1 3 2 3 3 3 3 3 1 1 1 1 3 4 1 1 1 1 1 1 5 1 <td< td=""><td>1 1 1 3 1 1 2 2 3 3 5 1 1 1 3 3 1 1 1 1 1 3 3 1 1 1 1 1 1 3 1 1 <td< td=""><td>Image: color of the color</td><td>3 3</td><td>3 3</td></td<></td></td<>	1 1 1 3 1 1 2 2 3 3 5 1 1 1 3 3 1 1 1 1 1 3 3 1 1 1 1 1 1 3 1 1 <td< td=""><td>Image: color of the color</td><td>3 3</td><td>3 3</td></td<>	Image: color of the color	3 3	3 3

NOTE 2: (a) Numbers indicate sequence in which tests are performed.

(b) Discontinuities shall not take place in this test group, during tests.

说明 2: (a)测试依照矩阵要求数量进行。

(b)在测试中, 群组测试不能间断

核准: 唐竹君 制作人: 魏红



深圳市华联威电子科技有限公司

SHENZHENHUALIANWEIELECTRONICS CO., LTD.

測試報告

TEST REPORT

產品名稱 Part Name		TYPE C 3.1 夹板脚长 1.5	測試日期 Date of Testing	2022.03.18 2022.03.20	報告編	號 Repo	or t NO.	MD20220320-01			
	產品型號 Part Name	U573-441B-G61018	樣品數量 Quantity	5PCS		環境 Mea nvironme		1	emp:18 f R.H.:499		
一•電	性測試 ELEC	TRICAL TEST									
						測試記	錄 Testir	ng Result			定 dge
序號 NO.	測試項目 Testing Item	測試條件 Tes ting Con di tions	測試設備 Testing Equipment	規格 SPEC	1	2	3	4	5	Pass	Fail
1	Contact resis tance	Test current:100mA max	DIGITAL MICRO— OHMMETER	40 m Ω Max	14.77 m Ω	15.42 m	15.86 m Ω	16.37 m Ω	17.53 m	Р	
2	In sula tion resis tance	Test voltage:500VDC Operation stated:1min	ULTRA HIGH RESISTANCE METER	100 m Ω Min	Pass	Pass	Pass	Pass	Pass	Р	
3	Dielec tric withstand voltage	Test voltage:100VAC Cut—off current:0.5mA Operation stated:1 min	BREAKDOWN TESTER	No discharge or flashover occur	Pass	Pass	Pass	Pass	Pass	Р	
二. 機	機械特性測試	MECHANICAL TEST			l			I	I		
						測試記	錄 Testir	ng Result			定 dge
序 號 NO.	測試項目 Testing Item	測試條件 Tes ting Con di tions	測試設備 Testing Equipment	規格 SPEC	1	2	3	4	5	Pass	Fail
1	Durability test	Ra te:200cycles/hour Total: 10000 cycles	LIFE TESTER FOR CONNECTOR	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
2	Mating Force	5N-20Newtons maximun at a maximum rare of 12.5mm per minute	¹ Insertion force testing machine	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
3	Un—Mating Force	8N-20N NewtNewtonso ns m minimuminimum at a maximum rare of 12.5mm per minute	Insertion force testing machine	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
三.環	境特性測試।	ENVIRONMENTAL TEST									
序號 NO.	測試項目 Testing Item	測試條件	測試設備 Testing Equipment	規格 SPEC		測試記	錄 Testir	ng Result			定 dge
INU.	resumg item	Tes ting Con di tions	resung Equipment		1	2	3	4	5	Pass	Fail
1	Humidi ty— Tempera ture cycle	Temperature: 40±2°C Dura tion :168H	PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
2	Heat test	Temperature: 70±2°C Dura tion :168H	OVEN	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
2	Heat test		OVEN		Pass	Pass	Pass	Pass	Pass	Р	

3	Cold test	Temperature: -25 ±3°C Dura tion :168H	PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
4	Tempera ture cycling test Temperature: 70—25 C Duration:5 cycle		PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER Roof PROGRAM No physical damage		Pass	Pass	Pass	Pass	Pass	Р	
四.物	理測試 PHYS	ICAL TEST									
序	測試項目 Testing Item	測試條件 Testing Con di tions	測試設備	規格 SPEC		測試記	錄 Testin	g Result		判 Jud	定 lge
NO.	resumg nem	resumg con an dons	Testing Equipment	OI LO	1	2	3	4	5	Pass	Fail
1	Salt spray test	Temperature: 35±2°C Concentration:5±1 % Duration:12H	SALT SPRAY TESTER	No Oxidation	Pass	Pass	Pass	Pass	Pass	Р	
2	Solder ability test	Temperature: 260 土 5°CDura tio n:10 ±1	OVEN	NO physical damage	Pass	Pass	Pass	Pass	Pass	Р	
3	Solder ability test	sec Temperature: 260 ±10 C Dura tion :10 ±1 sec	CONTROLLED CONSTANT-TEMP SOLDER POT	Soldering area <u>=</u> 95%	Pass	Pass	Pass	Pass	Pass	Р	-
	判定 Result	■合格(ACCI	EPT)	Г	□ 不合	格(REJ	ECT)				

核准(Approver): 欠必锋

測試(Tester): 但芬

HLWCONN® 深圳市华联威电子科技有限公司 檢驗報告

■首件檢験	☆ □入庫檢驗 □	出貨檢	驗 口名		儉 □延	料檢縣	☆ 口事	丰他		2022年	-03月	21日 版	次:A1
料號	U573-441B-G61	018	制令	單號		/	送檢	單位		[程部	首件	製作者	裝配
		Z	1	/ I \ II LE		,	批	量		/	送核	檢時間	1
品名	TYPE C 3.1夹板脚	长1.5	客戶	代 號		/	數	量	5	SPCS	確認	忍時間	1
	抽樣標準			■單次		雙次		抽样	数	AQL	CRI:0	MAJ:0.40	MIN:0.6
M	IL-STD-105E(II)		1	E常	□加嚴	员 □洞	划量	(5PC	S)	ACC/RE.	0	/	/
不良数:		CRI (/) 1	MAJ (/)	MIN (/)	不良	[%]	/
NO.	檢驗項目	檢測		檢!	驗 記	錄		品管判	[定	CRI	MAJ	MIN	備注
NO.	單位:MM/G	儀器	1	2	3	4	5	AC	RE	CKI	WIAJ	IVIIIN	
	0.80±0.15	D	0.83	0.85	0.84	0.82	0.83	√					
	8.60±0.25	D	8.63	8.65	8.64	8.63	8.65	√					
	2.95±0.10	D	2.93	2.95	2.92	2.94	2.95	√					
尺	3.75±0.10	D	3.72	3.71	3.73	3.75	3.72	√					
	11.00±0.10	D	11.02	11.05	11.03	11.04	11.03	√					
寸	3.21±0.10	D	3.23	3.22	3.20	3.18	3.19	√					
	2.30±0.20	D	2.32	2.35	2.30	2.31	2.32	√					
測	9.30±0.20	D	9.32	9.35	9.36	9.37	9.35	√					
量													
<u> </u>													
檢驗依據:	<<工程圖紙>>	<u><<</u> ;	檢驗規範	範>> []<<承	認書>>		影品 [コ其	它			
檢測儀器:	A游標卡尺 B千分尺	C厚薄	儀 D投景	彡鏡 E放	大鏡 I	顯微鏡	G 錫 爆	i H插技	<u></u>	器I間位	尺 J其	它	
品保判定:			合格Ac			Reject]特采 V			」挑選		

核准: 欠必锋 审核: 李娟 检验员: 但芬

FLWCOND® 深圳市华联威电子科技有限公司

电镀报告表

品名:TYPE C 3.1夹板脚长1.5 (端子)		版次:A.0
电镀规格:Ni40u", Sn40u", Au G/Fu"	日期:2021-12-20	页次:1/1

厂商:同华

测试设备:CMI X-射线膜厚测试仪

1、底层电镀测试(Ni)

数据	测试标准	实测值	判定	测试日期	测试时间
1	40u″MIN	50. 5u"	OK	2021/12/20	10:20:15
2	40u″MIN	56. 3u"	OK	2021/12/20	10:20:17
3	40u″MIN	67. 5u"	OK	2021/12/20	10:20:19
4	40u″MIN	62. 4u"	OK	2021/12/20	10:20:21

2、表层电镀测试(Sn)

数据	测试标准	实测值	判定	测试日期	测试时间
1	40u"MIN	65. 3u"	OK	2021/12/20	10:25:10
2	40u"MIN	74. 7u"	OK	2021/12/20	10:25:12
3	40u"MIN	75. 9u"	OK	2021/12/20	10:25:14
4	40u"MIN	70. 4u"	OK	2021/12/20	10:25:16

3、表层电镀测试(Au)

数据	测试标准	实测值	判定	测试日期	测试时间
1	0.5u"MIN	0.56u"	OK	2021/12/20	10:30:32
2	0.5u"MIN	0. 54u"	OK	2021/12/20	10:30:34
3	0.5u"MIN	0. 57u"	OK	2021/12/20	10:30:36
4	0.5u"MIN	0.55u"	OK	2021/12/20	10:30:38

核准: 欠必锋 审核:李娟 检验员: 但芬

FLWCONN® 深圳市华联威电子科技有限公司电镀报告表

品名: TYPE C 3.1夹板脚长1.5 (外壳)		版次:A.0
电镀规格:Ni:50u″ min	日期:2021-12-16	页次:1/1

厂商:金和源

测试设备:CMI X-射线膜厚测试仪

1、表层电镀测试(Ni)

数据	测试标准	实测值	判定	测试日期	测试时间
1	50u"min	56. 3u"	OK	2021/12/16	10:42:14
2	50u"min	58. 6u″	OK	2021/12/16	10:42:16
3	50u"min	55. 4u"	OK	2021/12/16	10:42:18
4	50u"min	54. 5u"	OK	2021/12/16	10:42:20

核准: 欠必锋 审核: 刘联英 检验员: 但芬

深圳市华联威电子科技有限公司

盐水喷雾实验报告

试验方法	试验方法 盐水喷雾腐蚀试验法		MIL-STD-1216
METHOD	NEUTRL SALT SPRAY CORROSION TEST	REF	MIL OID 1210
客户	/	试验起始日期	2022年03月18日 20:00 时起
各广	/	DATE	2022年03月19日 08:00 时止
样品名称	TYPE C 3.1 夹板脚长1.5	试验数量	5PCS
P/N	U573-441B-G61018		

试验条件 (TEST CONDDITION)

- 1、盐水溶解(SALT SOLUTION:浓度50±10g/L,PH值6.5-7.2.
- 2、试验室温度 (TEMP. IT THE SPRAY DHAMBR):35±1℃.
- 3、盐水桶温度 (TEMP. OF SALE SOL'N TANK): 35±1℃.
- 4、 压力桶温度 (TEMP.OF SAR SUPPLIERY): 47±1℃.
- 5、 试验室相对湿度(R.H IN THE CHAMBER) 85%.
- 6、 压缩空气压力(COMPRESSED AIR PRESSURE): 1.00±0.01Kg/cm².
- 7、 样品放置位置(SPECIMEN SUPPORTED ANGLE): 尼龙绳吊挂70°-90°.
- 8、 喷雾收集量(COLLECT RATE OF SALT SOL'N)1-2mL/(8 cm²hr).
- 9、盐雾测试时间: 12小时 (H)

判定方法(ADFUSGD METHOD)

试验后以20倍放大镜观察、无蓝、绿色腐蚀物之现象(不包含折弯处),即判定合格.(Inspext the ecimen at 20 xmagnification no blue or green corrosion products are acceptable)

样品序号	试验后现象	判定
件加力亏	PHENOMENON AFTER TEST	COMMENT
1	无蓝、绿色腐蚀物之现象	OK
2	无蓝、绿色腐蚀物之现象	OK
3	无蓝、绿色腐蚀物之现象	OK
4	无蓝、绿色腐蚀物之现象	OK
5	无蓝、绿色腐蚀物之现象	OK

核准:欠必锋 审核: 李娟 试验员:但芬

东莞市海嵘兴塑胶有限公司

LCP材质分析报告

品名	比例	用 途
杜邦LCP树脂	0. 68	构成材料主要成份
抗氧剂	0.003	抗氧化
日本住友TAP	0.002	润滑及增加流动性
人洋安定剂	0. 005	稳定机械性能,方便重复使用
玻纤	0, 30	增强
色母	0. 01	着色

注:以上数据真实可靠,但并非绝对直,并不做任何商业依据。



钜鼎銅材廠檢驗報告單

公司名稱 Customer	20 10 10 10 10 10 10 10 10 10 10 10 10 10	钜鼎銅材廠	檢驗報告單		重量 Weight(kg)	1078		日期 ate	2021/11/23	
品名	2 12 12 12	標	[准		尺		態	銅卷編號		
Article		Stand	ard No		Dime	ension	Ter	nper	Co	il No
C2680	v.	JISH31	00:2017		0.18	*400	E	EH	1021	-C-08
				化學	式分Chemical Con	mpositions(%)				
元素 Element	Cu %	Zn%	Pb%	Fe%	\	\	1	\	化學成分	雜質
規範 Spec	64.0-68.0	餘量	<0.05	<0.05	\	1	\	\		合格
實測 Actual	64.32	餘量	0.0036	0.0136	\	1	١	\	合格	合格
				機械性	質子Mechanical	Properties				
項目	結晶粒度	硬度	抗拉強度	伸長度	導電率	彎曲試驗	表面	粗度	彎	曲度
Item	Grain Size	Hardness	TensionStrength	Elongation	Electrical Conduc	Bending Test	Surface F	Roughness		mber
	Mm	Hv	Mpa	%	%IACS	180	Ra(Ra(u m)		m\n
規範MAX Spec	\	170-190	490-610	\	\	\	\		-	\
實測 Actual	\	178	574	5	\	١		\		\ - ·

品質部

聯系電話:0755-28111847 傳真: 0755-28110077 送货专用量

产品质量证明书

PRODUCT INSPECTION CERTIFICATE

	同号码:	201	3101400	3	等	级:		1.4		* .							
ij	tract No. 货力:	***************************************	YU HUA	·	Gr.	ade 名:	不锈钢料	入礼钢带(COIL)	牌号:	SUS304-CS	SP 1/2H	钢卷	编号:		13092820)
54.44	er 货力: plier	<u></u>	完鑫发	· · · · · · · · · · · · · · · · · · ·		Metrication	JIS	G 4313-19	996	Type 表面加工: Surface Finish	2B	尧	4	number 日期:	2	013-10-1	5
				品尺寸 duct Si			1	拉伸试验 nsile Te	st	表面硬度 Hardness		(化 hemical	学成 Composi		· •	
序号 No.	, , , , , , , , , , , , , , , , , , , ,	厚度 Thickness mm	宽度 Width 皿	长度 Length m	卷数 Number C	重量 Weight Kg	N/mm²	抗拉强度 N/mm ²	%	维氏硬度 HV	碶 C	硅 Si	Œ Mn	₽	磁 S	領 Ni	铬 Cī
1	SUS304-CSP 1/2H	0, 3	410	COIL	i	1102. 3	≥470 625	≥780 836	≥6 7	250-300 280	≤0.080 0.072	≤1.000 0.490	≤2.000 1.212	≤0.045 0,042	≤0.030 0.002	8.0-10.5 8.100	18.0-20.0 18.020
																展材料	
Size and Surface:Guaranteed 2. 拉伸试验:方法符合JISZ2241标准:试择规格为JISZ2201 5号 Tensile Test:Technique accord with JIS Z 2241; Sample Specification accord with No. 5 of JIS Z 2201				WE HEREBY WADE IN A SPECIFICA *此报告(CERTIFY COORDANC TION 又可完全	D符合订单和标准 THAT THE MATERI E WITH THE ORDER 复制 only be copies	AL HEREIN I	ias been			ANI WATER	未 部 AL DEPT.					



Test Report No. CANEC2119174205 Date: 22 Oct 2021 Page 1 of 4

SHENZHEN HUALIANWEI ELECTRONICS TECHNOLOGY CO.,LTD

101, 201, PLANT 1, NO.307, GUANLAN GUIHUA ROAD, GUIXIANG COMMUNITY, GUANLAN SUB-DISTRICT, LONGHUA DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: SUS304 hardware

SGS Job No. : CP21-055214 - GZ

Model No.: SUS304

Client Ref. Info.: Used for USB series, HDMI series, RJ series, 1394 series, MICRO series, MINI

series, DISPLAYPORT series, VGA series, DVI series, TYPE-C series, JACK

series

Date of Sample Received: 18 Oct 2021

Testing Period: 18 Oct 2021 - 22 Oct 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 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

Allie Chen

Allie Chen
Approved Signatory





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Test Report Date: 22 Oct 2021 No. CANEC2119174205 Page 2 of 4

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description CAN21-191742.005 SN₁ Silver-grey metal

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

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

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>005</u>
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 (Cr(VI))▼	-	μg/cm²	0.10	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:12586

- (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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No. CANEC2119174205

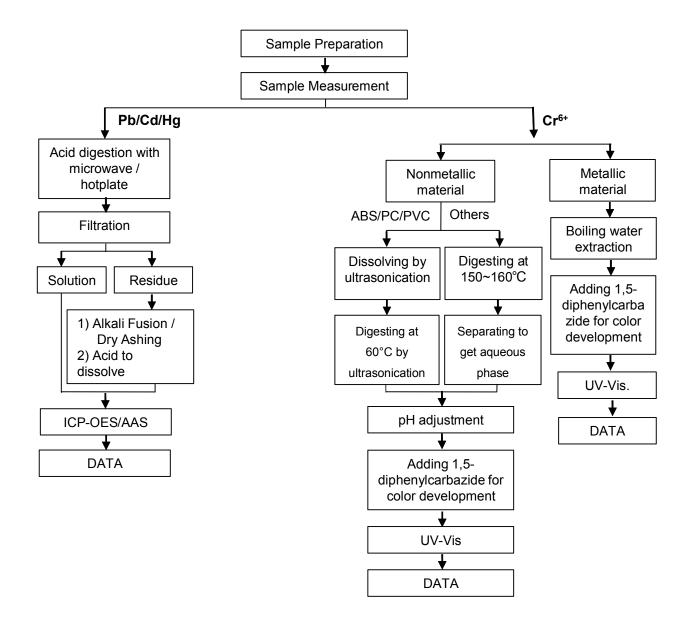
Date: 22 Oct 2021

Page 3 of 4

ATTACHMENTS

Pb/Cd/Hg/Cr6+ Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded).





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No. CANEC2119174205

Page 4 of 4

Date: 22 Oct 2021

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***



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Test Report No. CANEC2119174208 Date: 22 Oct 2021 Page 1 of 6

SHENZHEN HUALIANWEI ELECTRONICS TECHNOLOGY CO.,LTD

101, 201, PLANT 1, NO.307, GUANLAN GUIHUA ROAD, GUIXIANG COMMUNITY, GUANLAN SUB-DISTRICT, LONGHUA DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: LCP plastic black color

SGS Job No. : CP21-055214 - GZ

Model No.: LCP Plastic

Client Ref. Info.: Used for USB series, HDMI series, RJ series, 1394 series, MICRO series, MINI

series, DISPLAYPORT series, VGA series, DVI series, TYPE-C series, JACK

series

Date of Sample Received: 18 Oct 2021

Testing Period : 18 Oct 2021 - 22 Oct 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

Allie Chen

Allie Chen

Approved Signatory





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Test Report No. CANEC2119174208 Date: 22 Oct 2021 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description SN₁ CAN21-191742.008 Black plastic

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

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

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>008</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	6
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 Report	No. CANEC21191742	208	Date: 2	22 Oct 2021	Page 3 of 6
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>008</u>	
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:12586 37,25
- (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.



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No. CANEC2119174208

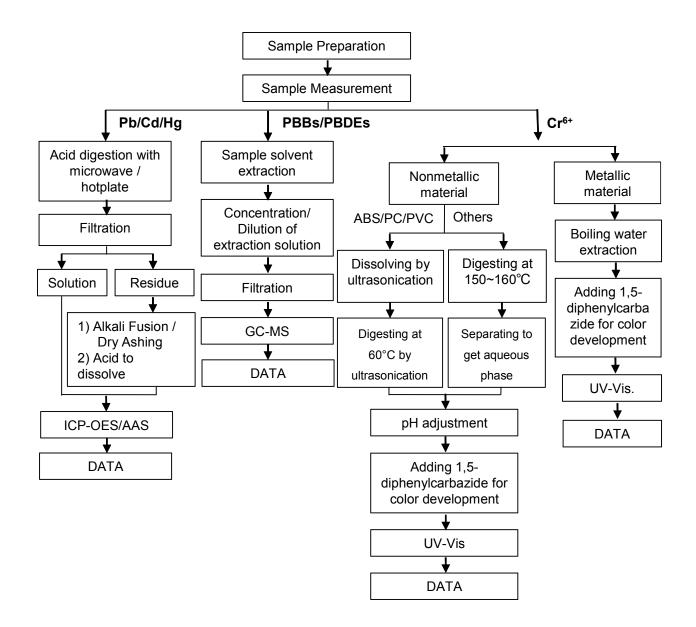
Date: 22 Oct 2021

Page 4 of 6

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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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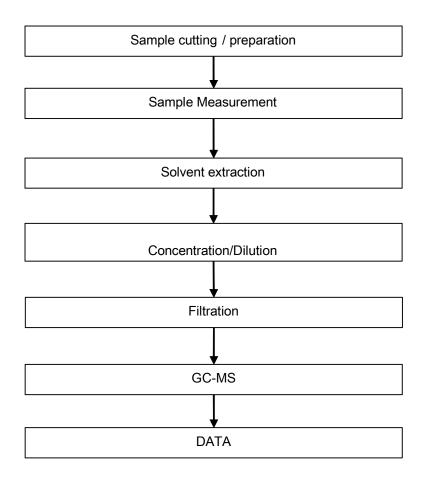
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Page 5 of 6

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Phthalates Testing Flow Chart





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No. CANEC2119174208

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Date: 22 Oct 2021

Sample photo:



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Test Report No. CANEC2119174201 Date: 22 Oct 2021 Page 1 of 4

SHENZHEN HUALIANWEI ELECTRONICS TECHNOLOGY CO.,LTD

101, 201, PLANT 1, NO.307, GUANLAN GUIHUA ROAD, GUIXIANG COMMUNITY, GUANLAN SUB-DISTRICT, LONGHUA DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: C2680 Terminal

SGS Job No. : CP21-055214 - GZ

Model No.: C2680 terminal after plating

Client Ref. Info.: Used for USB series, HDMI series, RJ series, 1394 series, MICRO series, MINI

series, DISPLAYPORT series, VGA series, DVI series, TYPE-C series, JACK

series

Date of Sample Received: 18 Oct 2021

Testing Period: 18 Oct 2021 - 22 Oct 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 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

Allie Chen

Allie Chen
Approved Signatory





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Test Report No. CANEC2119174201 Date: 22 Oct 2021 Page 2 of 4

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

CAN21-191742.001 SN₁ Silver-grey/brassy metal

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

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

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	44
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	μg/cm²	0.10	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:12586

- (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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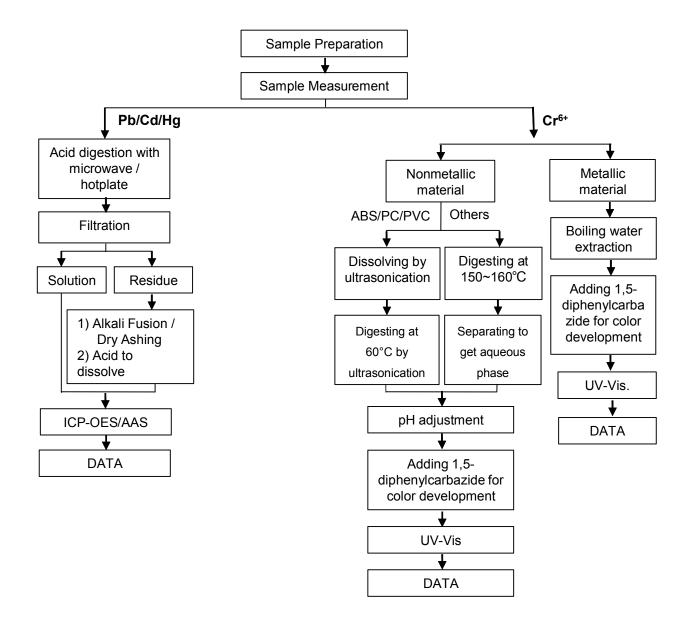
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Pb/Cd/Hg/Cr6+ Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded).





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No. CANEC2119174201

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Date: 22 Oct 2021

Sample photo:



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Test Report No. CANEC2117633801 Date: 27 Sep 2021 Page 1 of 8

SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD
TONGHUA MANSIN TONGLE XINBU VILLANG TOWN SHENZHEN CITY CHINA

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

SGS Job No. : CP21-051017 - SZ

Date of Sample Received: 18 Sep 2021

Testing Period: 18 Sep 2021 - 27 Sep 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

Allie Chen

Allie Chen Approved Signatory





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Test Report Page 2 of 8 No. CANEC2117633801 Date: 27 Sep 2021

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description SN₁ CAN21-176338.001 Gold 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

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

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	73
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 Report	No. CANEC21176338	01	Date: 2	27 Sep 2021	Page 3 of 8
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
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:12586 37.25
- (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.

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.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Perfluorooctanoic acid (PFOA) and its salts+	335-67-1	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) ^	1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido) -ethanol(MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol(EtFOSE)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND



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Test Report No. CANEC2117633801 Date: 27 Sep 2021 Page 4 of 8

Notes:

(1) + PFOA and its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1); (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C_2H_5)₄ (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)



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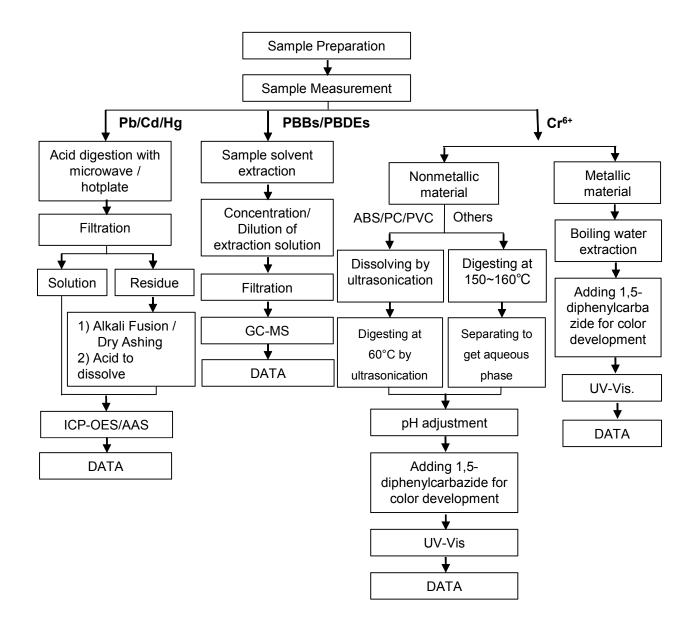
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Page 5 of 8

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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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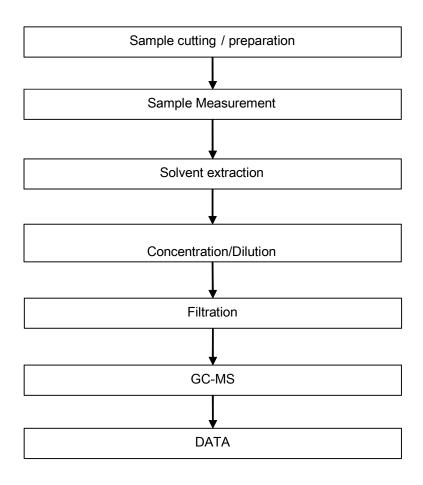


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Date: 27 Sep 2021 Page 6 of 8

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Phthalates Testing Flow Chart





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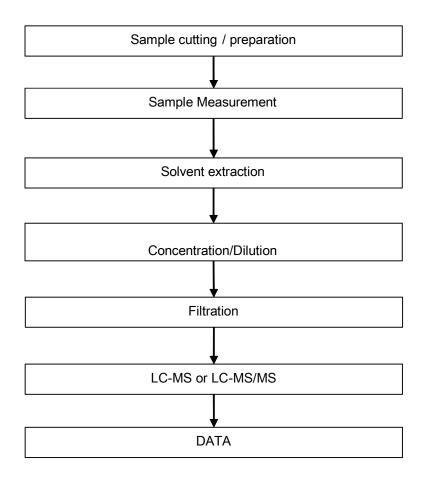
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PFOA / PFOS Testing Flow Chart





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Sample photo:



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Test Report No. CANEC2117633803 Date: 27 Sep 2021 Page 1 of 8

SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD
TONGHUA MANSIN TONGLE XINBU VILLANG TOWN SHENZHEN CITY CHINA

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

SGS Job No. : CP21-051017 - SZ

Date of Sample Received: 18 Sep 2021

Testing Period: 18 Sep 2021 - 27 Sep 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

Allie Chen

Allie Chen
Approved Signatory





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Test Report No. CANEC2117633803 Date: 27 Sep 2021 Page 2 of 8

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

> SN₁ CAN21-176338.003 Silver-gray 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

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

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	37
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 Report	No. CANEC2117633803		Date: 27 Sep 2021		Page 3 of 8
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	
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:12586 37.25
- (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.

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.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Perfluorooctanoic acid (PFOA) and its salts+	335-67-1	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) ^	1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido) -ethanol(MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol(EtFOSE)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND



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Notes:

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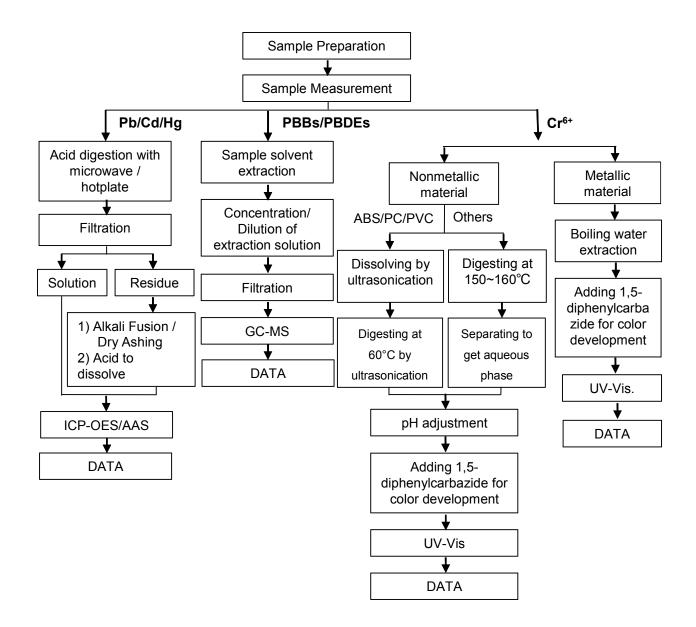
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Page 5 of 8

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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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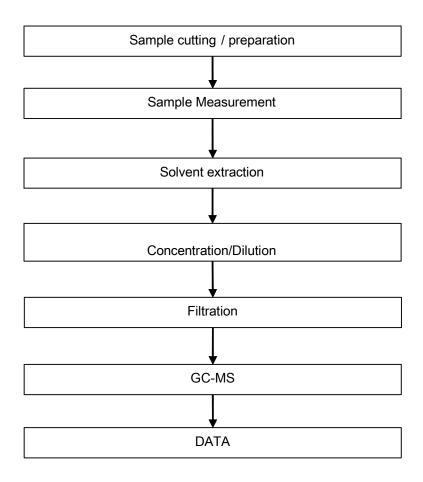


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Date: 27 Sep 2021 Page 6 of 8

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Phthalates Testing Flow Chart





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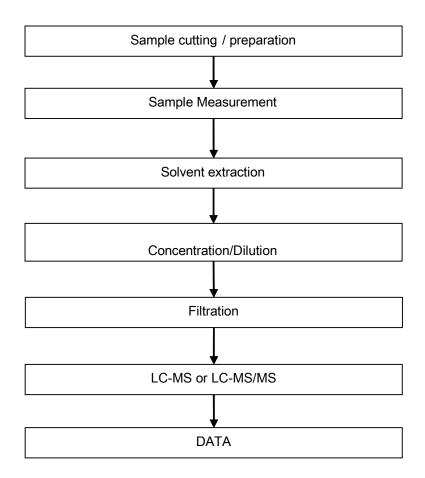
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Page 7 of 8

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PFOA / PFOS Testing Flow Chart





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Test Report No. CANEC2117633802 Date: 27 Sep 2021 Page 1 of 8

SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD
TONGHUA MANSIN TONGLE XINBU VILLANG TOWN SHENZHEN CITY CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: Bright Tin(SN)

SGS Job No. : CP21-051017 - SZ

Date of Sample Received: 18 Sep 2021

Testing Period: 18 Sep 2021 - 27 Sep 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

Allie Chen

Allie Chen Approved Signatory





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Test Report No. CANEC2117633802 Date: 27 Sep 2021 Page 2 of 8

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

> SN₁ CAN21-176338.002 Silver-gray 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

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

Cadmium (Cd) 100 mg/kg 2 ND Lead (Pb) 1,000 mg/kg 2 29 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 Sum of PBBs 1,000 mg/kg - ND Monobromobiphenyl - mg/kg 5 ND Dibromobiphenyl - mg/kg 5 ND Tetrabromobiphenyl - mg/kg 5 ND Pentabromobiphenyl - mg/kg 5 ND Hexabromobiphenyl - mg/kg 5 ND Octabromobiphenyl - mg/kg 5 ND Nonabromobiphenyl - mg/kg 5 ND Sum of PBDEs 1,000 mg/kg 5 ND Monobromodiphenyl ether - mg/kg 5 ND	Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
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 Hexabromobiphenyl - mg/kg 5 ND Heptabromobiphenyl - mg/kg 5 ND Octabromobiphenyl - mg/kg 5 ND Nonabromobiphenyl - mg/kg 5 ND Sum of PBDEs 1,000 mg/kg 5 ND Monobromodiphenyl ether - mg/kg 5 ND Dibromodiphenyl ether - mg/kg 5 ND Tribromodiphenyl ether - mg/kg 5 ND	Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼-μg/cm²0.10NDSum of PBBs1,000mg/kg-NDMonobromobiphenyl-mg/kg5NDDibromobiphenyl-mg/kg5NDTribromobiphenyl-mg/kg5NDTetrabromobiphenyl-mg/kg5NDPentabromobiphenyl-mg/kg5NDHexabromobiphenyl-mg/kg5NDHeptabromobiphenyl-mg/kg5NDOctabromobiphenyl-mg/kg5NDNonabromobiphenyl-mg/kg5NDDecabromobiphenyl-mg/kg5NDSum of PBDEs1,000mg/kg-NDMonobromodiphenyl ether-mg/kg5NDDibromodiphenyl ether-mg/kg5NDTribromodiphenyl ether-mg/kg5NDTetrabromodiphenyl ether-mg/kg5ND	Lead (Pb)	1,000	mg/kg	2	29
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 5 ND Monobromodiphenyl ether - mg/kg 5 ND Dibromodiphenyl ether - mg/kg 5 ND Tribromodiphenyl ether - mg/kg 5 ND <tr< td=""><td>Mercury (Hg)</td><td>1,000</td><td>mg/kg</td><td>2</td><td>ND</td></tr<>	Mercury (Hg)	1,000	mg/kg	2	ND
Monobromobiphenyl-mg/kg5NDDibromobiphenyl-mg/kg5NDTribromobiphenyl-mg/kg5NDTetrabromobiphenyl-mg/kg5NDPentabromobiphenyl-mg/kg5NDHexabromobiphenyl-mg/kg5NDHeptabromobiphenyl-mg/kg5NDOctabromobiphenyl-mg/kg5NDNonabromobiphenyl-mg/kg5NDDecabromobiphenyl-mg/kg5NDSum of PBDEs1,000mg/kg-NDMonobromodiphenyl ether-mg/kg5NDDibromodiphenyl ether-mg/kg5NDTribromodiphenyl ether-mg/kg5NDTetrabromodiphenyl ether-mg/kg5NDTetrabromodiphenyl ether-mg/kg5ND	Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	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 Heptabromobiphenyl - mg/kg 5 ND Octabromobiphenyl - mg/kg 5 ND Nonabromobiphenyl - mg/kg 5 ND Nonabromobiphenyl - mg/kg 5 ND Decabromobiphenyl - 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	Sum of PBBs	1,000	mg/kg	-	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 Nonabromobiphenyl - mg/kg 5 ND Decabromobiphenyl - mg/kg 5 ND Decabromobiphenyl - mg/kg 5 ND Sum of PBDEs 1,000 mg/kg - ND Monobromodiphenyl ether - mg/kg 5 ND Tribromodiphenyl ether - mg/kg 5 ND Tribromodiphenyl ether - mg/kg 5 ND Tetrabromodiphenyl ether - mg/kg 5 ND	Monobromobiphenyl	-	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 Nonabromobiphenyl - mg/kg 5 ND Decabromobiphenyl - 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 Tetrabromodiphenyl ether - mg/kg 5 ND	Dibromobiphenyl	-	mg/kg	5	ND
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Hexabromobiphenyl-mg/kg5NDHeptabromobiphenyl-mg/kg5NDOctabromobiphenyl-mg/kg5NDNonabromobiphenyl-mg/kg5NDDecabromobiphenyl-mg/kg5NDSum of PBDEs1,000mg/kg-NDMonobromodiphenyl ether-mg/kg5NDDibromodiphenyl ether-mg/kg5NDTribromodiphenyl ether-mg/kg5NDTetrabromodiphenyl ether-mg/kg5ND	Tetrabromobiphenyl	-	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 Tetrabromodiphenyl ether - mg/kg 5 ND	Pentabromobiphenyl	-	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 Tetrabromodiphenyl ether - mg/kg 5 ND	Hexabromobiphenyl	-	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	Heptabromobiphenyl	-	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	Octabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs1,000mg/kg-NDMonobromodiphenyl ether-mg/kg5NDDibromodiphenyl ether-mg/kg5NDTribromodiphenyl ether-mg/kg5NDTetrabromodiphenyl ether-mg/kg5ND	Nonabromobiphenyl	-	mg/kg	5	ND
Monobromodiphenyl ether-mg/kg5NDDibromodiphenyl ether-mg/kg5NDTribromodiphenyl ether-mg/kg5NDTetrabromodiphenyl ether-mg/kg5ND	Decabromobiphenyl	-	mg/kg	5	ND
Dibromodiphenyl ether-mg/kg5NDTribromodiphenyl ether-mg/kg5NDTetrabromodiphenyl ether-mg/kg5ND	Sum of PBDEs	1,000	mg/kg	-	ND
Tribromodiphenyl ether - mg/kg 5 ND Tetrabromodiphenyl ether - mg/kg 5 ND	Monobromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether - mg/kg 5 ND	Dibromodiphenyl ether	-	mg/kg	5	ND
3.3	Tribromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether - mg/kg 5 ND	Tetrabromodiphenyl ether	-	mg/kg	5	ND
	Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC2117633802		Date: 27 Sep 2021		Page 3 of 8
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
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:12586 37.25
- (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.

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.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Perfluorooctanoic acid (PFOA) and its salts+	335-67-1	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) ^	1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido) -ethanol(MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol(EtFOSE)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND



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No. CANEC2117633802

Date: 27 Sep 2021

Page 4 of 8

Notes:

(1) + PFOA and its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1); (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)



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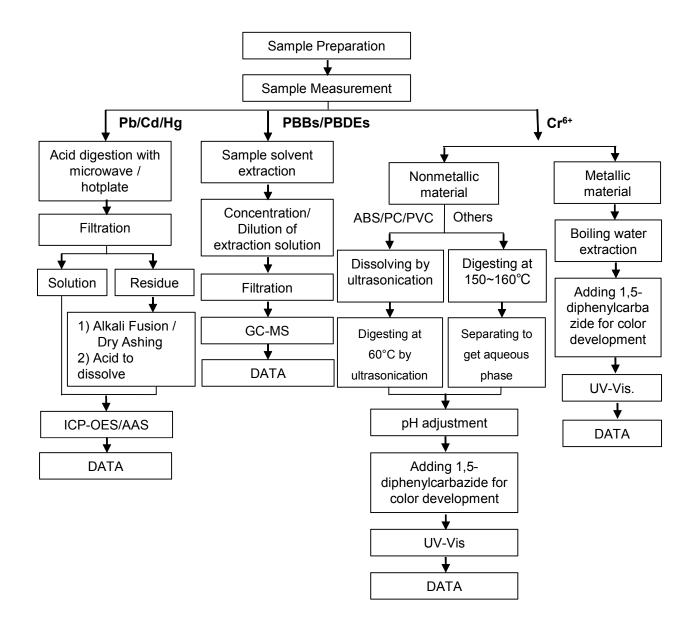
No. CANEC2117633802

Date: 27 Sep 2021 Page 5 of 8

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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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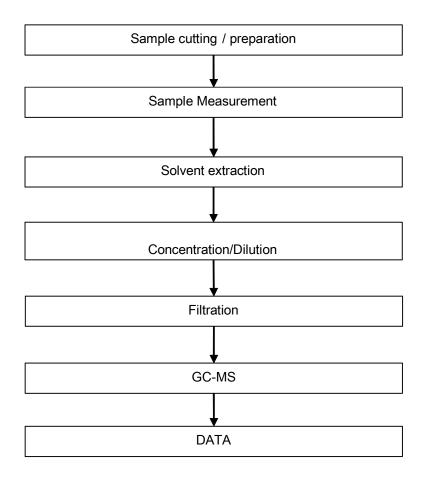
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Page 6 of 8

Date: 27 Sep 2021

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Phthalates Testing Flow Chart





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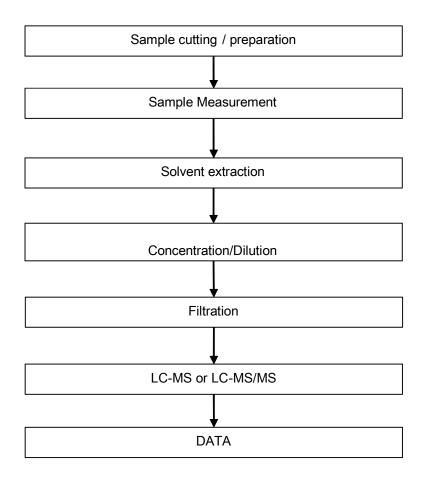
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Page 7 of 8

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PFOA / PFOS Testing Flow Chart





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No. CANEC2117633802

Page 8 of 8

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Sample photo:



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