FLWCONN®

承认书

Approval Sheet

客户(Customer): /

客户料号 (Cus . P/N):/

华联威料号 (HLW P/N):ST22-1700-G618

品名规格 (PronameSpec): SATA 7+15P SMT 板下高度5.0

送样日期 (Delivery Date):2022/06/11

承认日期 (Acknowledge Date): 2022/06/11

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 垻	市华联威电	子科技有限公司	
SHEN ZHEN S	HI HUA LIAN WEI EI	LECTRONICS TECHNOLOG	Y CO; LTD.
业务部	品 管 部	工 程 部	核 准
Sales Dept	QC Dept	Engineering Dept	Checked By
吴鑫萍	欠必锋	魏红	唐竹君

地址:深圳市龙华区观澜街道桂香社区观澜桂花路 307 号

TEL: 0755-28888886 28888866

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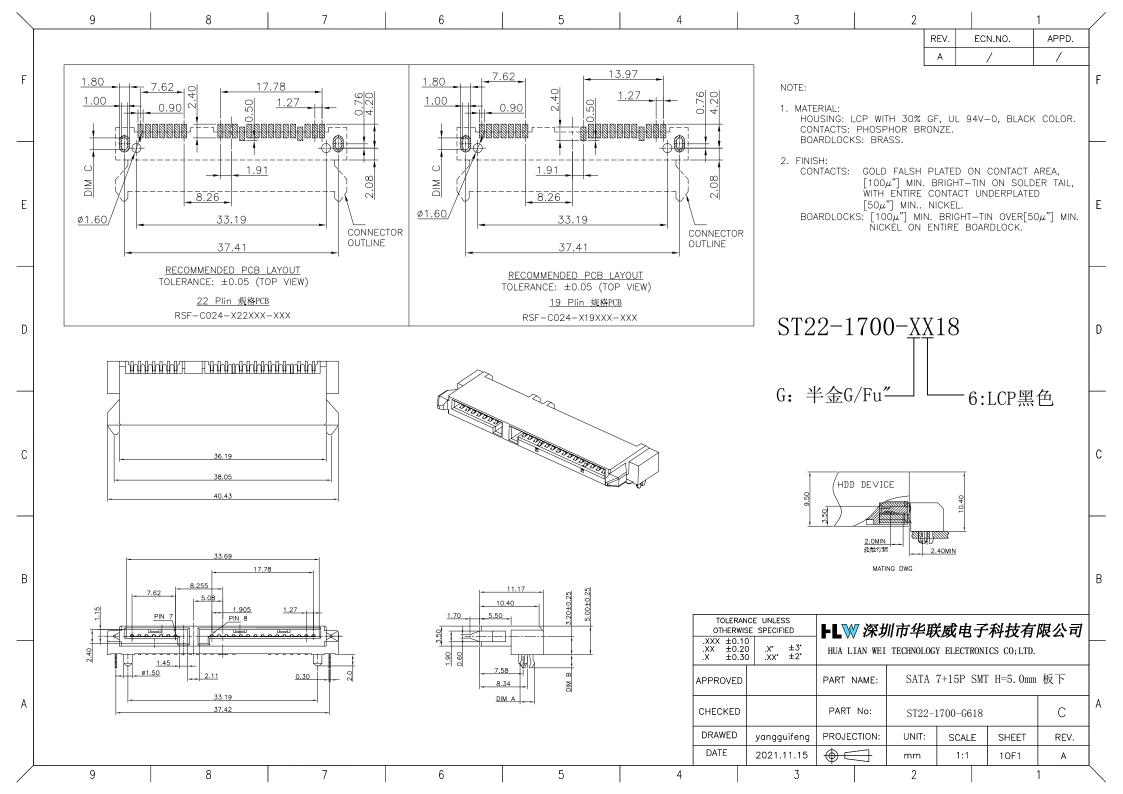


FLWCONN®

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HWCONN® 深圳市华联威电子科技有限公司

SATA系列產品SPEC

	TEST ITEM	REQUIREMENT	PROCEDURE
1	Examination of Product	Meets requirements of product drawing. No physical damage.	Visual inspection.
2	Operating Temperature	-55°C to +125 °C	
3	Storage Temperature	-25°C to 85 °C	
		ELECTRICAL REQUIR	EMENT
4	Rating Voltage	30 V RMS max	
5	1.5A per pin minimum The temperature rise above shall not exceed 30°C at any the connector when contact are powered. The ambient costill air at 25°C.		Mount connector to a test PCB Wire three adjacent pins in parallel for supply(or the minimum number required by the connector type) Wire three adjacent pins in parallel for return(or the minimum number required by the connector type) Apply a DC current rating per contact to the supply pins returning through the return pins Record temperature rise when thermal equilibrium is reached
6	Contact Resistance	$30~\text{m}\Omega$ (initially) maximum, $\triangle 15\text{m}\Omega$ max after stress when measured at $20~\text{mV}$ maximum open circuit at $100~\text{mA}$. Mated test contacts must be in a connector housing.	EIA 364-23 The object of this test is to detail a standard method to measure the electrical resistance across a pair of mated contacts such that the insulating films, if present, will not be broken or asperity melting will not occur.
7	Dielectric withstanding Voltage	The dielectric shall withstand 500VAC for 1 minute at sea level.	EIA 364-20 Method B Test between adjactent contacts of mated and unmated connector assemblies.

8	Insulation Resistance	1000 M $Ω$ minimum	EIA 364-21 After 500 VDC for 1 minute measure the insulation resistance between the adjacent contacts of mated and unmated connector assemblies.
9	Temperature Rising	30°C Max. Under loaded rating current	Contact series-wired, apply test current of loaded rating current to the circuit, and measure the temperature rising by probing on soldered areas of contacts, after the temperature becomes stabilized deduct ambient temperature from the measured value.
		Mechanical Requires	ment
10	Connector Mating Force	45 N Max	EIA-364-13 Measure the force necessary to mated the connector assemblies at a max.rate of 12.5 mm per minute.
11	Connector Unmating Force	10 N Min.through 50cycles	EIA-364-13 Measure the force necessary to mate the connector assemblies at a max.rate of 12.5 mm per minute.
12	Durability	No physical damage. Meet requirements of additional tests as specified in the test sequence.	EIA-364-09 50 cycles for internal cabled application; 500cycles for backplane/blindmate application. Test done at a maximum rate of 200 cycles per hour.

13	Vibration	No discontinuifies of lus longer duration.	EIA364-28 Condition V Test letter A Subject mated connectors to 5.35 g's RMS. 30minutes in each of three mutually perpendicular planes. See NOTE 2.				
14	Mechanical Shock	No discontinuities of 1 us or longer duration. No physical damage.	EIA 364-27 Condition H Subject mated connectors to 30 g's half-sine shock pulses of 11 ms duration applied along three mutually perpendicular planes for atotal				
15	Solder ability	contact solder tails must pass 95% coverage after one hour steam aging as specified.	of 18 shocks. See NOTE 2. 1)Temperature of fused solder: 245+5°C. 2)Dipping time:5+0.5s EIA 364-52				
		Environmental Require	ements				
16	Resistance to Solder Heat	Forming resin shall not be distorted, and terminations shall not be separated.	1) Depth of dipping termination: the distance between the mounting surface and solder surface shall be 1 mm to 2mm. 2) Temperature: 245±5°C. 3) Dipping time: 10±1s Socket EIA 364-56				
17	Thermal Shock	See NOTE .	EIA 364-32 Test Condition 1. Subject mated connectors to 10 cycles between -55°C and +85°C.				
18	Humidity	See NOTE .	EIA 364-31 Method II Test Condition A Subject mated connectors to 96 hours at 40°C with 90% to 95% RH.				
19	Temperature Life	See NOTE.	EIA 364-17 Test Condition III Method A. Subject mated connectors to temperature life at +85°C for 500 hours.				

20	Salt Spray	Visual Inspection-No physical damageLLCR-50 m Ω max per	Mated connector expose to 5% salt concentration for 12 hours at temperature 35+2°C. After the test specimens shall be washed with running water and dried
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NOTE:

- 1. Shall meet EIA 364-18 Visual Examination requirements, show no physical damage, and shall meet requirements of additional tests as specified in the sequence.
- 2. Shock and vibration test fixture is to be determined by each user with connector vendors.

					To	est Grou	p			
Test or Examination	A	В	С	D	Е	F	G	Н	I	J
		Test Sequence (a)								
Examination of Product	1,5	1,9	1,7	1,8	1,5	1, 5	1, 3	1, 3	1, 3	
Contact Resistance	2,4	3,7	2,4,6		3,4	2, 4				
Insulation Resistance				2,6						
Dielectric withstanding				3,7						
Mating Force		2								
Unmating Force		8								
Durability	3	4			2					
Mechanical Shock		6								
Vibration		5								
Humidity Temperature				5						
Temperature Life			3							
Thermal Shock			5	4						
Temperature Rising							2			
Solderability									2	
Resistance to Soldering								2		
Salt Spray						3	3			
備注	無客戶打	指定增加]測試項	頁目列	· , (衣照此標	票准第	進行產	E品可靠性評	估。

核准: 唐竹君 制作人: 覃裕华

3	Cold test	Temperature: −25 ±3°CDuration:168H	PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
4	Temperature cycling test	Temperature:85 ~-25°C Duration:5 cycle						Pass	Pass	Р	
四.物理測試 PHYSICAL TEST											
序號	測試項目 Testing Item	測試條件 Testing Conditions	測試設備 Testing Equipment	規格 SPEC	測試記錄Testing Result				t	判定Ji	
NO.	resum resm	resulting definitions			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	Resistance to soldering heat test	Temperature: 260±5°C Duration:10±1sec	OVEN	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
3	Solder ability test	Temperature: 260±5°C Duration:5±0.5 sec	Soldering area ≽95□	Pass	Pass	Pass	Pass	Pass	Р		
	判 定 Result ■合格 (ACCEPT) □ 不合格 (REJECT)										

核准(Approver): 欠必峰 測試(Tester): 但芬



深圳市华联威电子科技有限公司 SHENZHENHUALIANWEIELECTRONICS CO., LTD.

測 試 報 告TEST

REPORT

		SATA 7+15P SMT 板下 高度5.0	測試日期 Date of Testing	2022.06.08 2022.06.11		報告編號 port N	t NO.	MD20220611-0			01	
	產品型號 Part Name	ST22-1700-G618	樣品數量 Quantity	5PCS		測試環均 ing Envi	意 ronment		Temp: 濕度RH:			
一.電	性測試 ELECTRIC	CAL TEST								_		
						測試記録	綠Testin	g Resul	t	判定、	Judge	
序 號 NO.	測試項目 Testing Item	測試條件 Testing Conditions	測試設備 Testing Equipment	規格 SPEC	1	2	3	4	5	Pass	Fail	
1	Contact resistance	Test current:100mA max	I DIGITAL MICHO I SS I		17.45 mΩ	18.22 mΩ	19.13 mΩ	17.92 mΩ	18.68 mΩ	Р		
2	Insulation resistance	Test voltage:500VDC Operation stated:1min	ULTRA HIGH RESISTANCE METER	1000 M Ω Min	Pass	Pass	Pass	Pass	Pass	Р		
3	Dielectric withstand voltage	Test voltage:1000VAC Cut- off current:0.5mA Operation stated:1 min	BREAKDOWN TESTER	BREAKDOWN No discharge or		Pass	Pass	Pass	Pass	Р		
二.機	二.機械特性測試 MECHANICAL TEST											
						測試記録	綠Testin	g Resul	判定Judge			
序 號 NO.	測試項目 Testing Item	測試條件 Testing Conditions	測試設備 Testing Equipment	規格 SPEC	1	2	3	4	5	Pass	Fail	
1	Durability test	Rate:200cycles/hour Total: 5000cycles	LIFE TESTER FOR CONNECTOR	No physical damage	Pass	Pass	Pass	Pass	Pass	Р		
2	Mating Force	29.4 Newtons maximum at a maximum rare of 12.5mm(0.492") per minute	Insertion force testing machine	45N max	Pass	Pass	Pass	Pass	Pass	Р		
3	Un-Mating Force	2.94Newtons minimum at a maximum rare of 12.5mm(0.492") per minute	Insertion force testing machine	10N min	Pass	Pass	Pass	Pass	Pass	Р		
三.環	境特性測試 ENVI	RONMENTAL TEST										
序號	測試項目	測試條件	測試設備	規格		測試記録	綠Testin	g Resul	t	判定Judge		
NO.	Testing Item	Testing Conditions	Testing Equipment	SPEC	1	2	3	4	5	Pass	Fail	
1	Humidity- Temperature cycle	Temperature: 40±2°C Humidityy: 90~95% Duration:168H	PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER	No physical damage	Pass	Pass	Pass	Pass	Pass	Р		
2	Heat test	Temperature: 70 ±2°CDuration:96H	OVEN	No physical damage	Pass	Pass	Pass	Pass	Pass	Р		

3	Cold test	Temperature: −25 ±3°CDuration:168H	PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
4	Temperature cycling test	Temperature:85 ~-25°C Duration:5 cycle						Pass	Pass	Р	
四.物理測試 PHYSICAL TEST											
序號	測試項目 Testing Item	測試條件 Testing Conditions	測試設備 Testing Equipment	規格 SPEC	測試記錄Testing Result				t	判定Ji	
NO.	resum resm	resulting definitions			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	Resistance to soldering heat test	Temperature: 260±5°C Duration:10±1sec	OVEN	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
3	Solder ability test	Temperature: 260±5°C Duration:5±0.5 sec	Soldering area ≽95□	Pass	Pass	Pass	Pass	Pass	Р		
	判 定 Result ■合格 (ACCEPT) □ 不合格 (REJECT)										

核准(Approver): 欠必峰 測試(Tester): 但芬



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檢驗報告

■首	牛檢驗 口入區	車檢驗 口	出貨物	魚験 □]客退	僉驗 □	1退料模	験 [コ其他	<u>1</u>	2022 년	2022年06月11日 版券	
料號	ST22-1700)-G618	制令	單號		/	送檢	單位	I	程部	首件	製作者	裝配
品名	SATA 7+15P 高度5		客戶	代號		/	批	量		/ 'DCC		会時間 2014年	1
					<i>-</i> / ₋₇		數	量		PCS		忍時間 MAJ:0.40	/ MIN.0.65
	抽樣標準			■単		雙次			羊数 CS)	AQL			MIN:0.65
	MIL-STD-105	· /		正常			減量	,		ACC/REJ		/	/
个		CRI (/)		1AJ () M	IN ()	个员	學率(%)	/
NO.	檢驗項目	檢測 佳 器	_	T	驗記	I	<u> </u>		判定	CRI	MAJ	MIN	備注
	單位:MM/G	儀器	1	2	3	4	5	AC	RE				
,	40.43±0.20	D	40.45	40.42	40.43	40.45	40.46	√					
i	33.69±0.20	D	33.72	33.75	33.73	33.74	33.75	√					
	17.78±0.20	D	17.79	17.80	17.78	17.76	17.77	√					
	7.62±0.20	D	7.68	7.63	7.65	7.66	7.65	√					
,	37.42±0.20	D	37.46	37.43	37.42	37.43	37.45	√					
,	11.17±0.20	D	11.20	11.18	11.21	11.22	11.19	√					
	5.00±0.25	D	5.03	5.05	5.04	5.06	5.05	√					
	8.34±0.20	D	8.36	8.34	8.37	8.35	8.36	√					
ļ	3.20±0.25	D	3.21	3.23	3.22	3.24	3.22	√					
·													
·													
,													
,													
,													
檢驗	依據: ■<<工	程圖紙>>	□<	<檢驗#	規範>>	□<<	承認書	>> [□樣品	. 口其它	<u> </u>		
檢測	義器:A游標卡尼	只 B千分尺	C厚薄	∮儀 Di		E放大鏡	竞 F顯微	g鏡 G	湯爐 F	I插拔力器	I間位	尺 J其它	
品保		■合物	各Acce	ept [退貨F	Reject	□特	\$采W	aive	□挑選	_医 Sort		
	核 准 APP	欠	必锋			核 HK		/		檢驗 INSP		但	旦芬

保存部門:品保部 保存期限:三年 QR-M-003

FLWCONN® 深圳市华联威电子科技有限公司

电镀报告表

品名: SATA 7+15P SMT板下高度5.0 版次:A.0 电镀规格:Ni30u", Sn100u", Au G/Fu" 日期:2022-03-20 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	30u″MIN	50. 5u"	OK	2022/3/20	10:20:15
2	30u″MIN	56. 3u"	OK	2022/3/20	10:20:17
3	30u″MIN	67. 5u"	OK	2022/3/20	10:20:19
4	30u″MIN	62. 4u"	OK	2022/3/20	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	100u"MIN	105. 3u"	OK	2022/3/20	10:25:10
2	100u"MIN	104. 7u"	OK	2022/3/20	10:25:12
3	100u"MIN	105. 9u"	OK	2022/3/20	10:25:14
4	100u"MIN	107. 4u"	OK	2022/3/20	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. 52u"	OK	2022/3/20	10:30:32
2	0.5u"MIN	0. 55u"	OK	2022/3/20	10:30:34
3	0.5u"MIN	0.53u"	OK	2022/3/20	10:30:36
4	0.5u"MIN	0.54u"	OK	2022/3/20	10:30:38

核准: 欠必锋 检验员: 但芬 审核:李娟

FLWCOND® 深圳市华联威电子科技有限公司

电镀报告表

品名: SATA 7+15P SMT板下高度5.0 版次:A.0 电镀规格:Ni:50u" min 日期:2022/3/16 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	2022/3/16	10:42:14
2	50u"min	58. 6u″	OK	2022/3/16	10:42:16
3	50u"min	55. 4u"	OK	2022/3/16	10:42:18
4	50u"min	54. 5u"	OK	2022/3/16	10:42:20

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

盐水喷雾实验报告

试验方法	盐水喷雾腐蚀试验法	参考资料	MIL-STD-1345		
METHOD	NEUTRL SALT SPRAY CORROSION TEST	REF	MIL OID 1010		
客户		试验起始日期	2022年06月10日 20:00 时起		
谷厂		DATE	2022年06月11日 08:00 时止		
样品名称	SATA 7+15P SMT板下高度5.0	试验数量	5PCS		
P/N	ST22-1700-G618	QTY			

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)

CCIMCII at 2	o xiliagililication no blue of green collosion	products are acceptable,
共口亭 已	试验后现象	判定
样品序号	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

钜鼎銅材廠檢驗報告單

公司名稱 Customer	22 10	钜鼎銅材廠	檢驗報告單		重量 Weight(kg)	1078		日期 ate	2021	/11/23
品名	標准			尺寸		狀態		銅卷編號		
Article		Stand	ard No		Dime	ension	Tei	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%	\	\		\	化學成分	雜質
規範 Spec	64.0-68.0	餘量	<0.05	<0.05	\	1	\	\	合格	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		nber
	Mm	Hv	Mpa	%	%IACS	180	Ra(u m)	m	m\n
規範MAX Spec	\	170-190	490-610	\	\	\		\		1
實測 Actual	\	178	574	5	\	\	\			\ - ·

品質部

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

Materials Information

PRODUCT NAME: LCP M-401 BK

COMPOSITION/INFORMATION OF LCP M-401 BK

SUBSTANCE/MIXTURE: Mixture

SYNONYM(S): Aromatic Liquid Crystal Polymer(LCP)

品名	比例	用途
德众泰 LCP 树脂	0.565	构成材料主要成分
抗氧剂	0.002	抗氧化
科莱恩热稳定剂	0.003	增加高温稳定性
黑色母	0.01	着色
滑石粉	0.2	增强剂,增加流动性
玻纤	0.22	增强

NAME OF COMPANY. DZT Engineering Plastics Tech. Co.,Ltd

ADDRESS: Building 2 Zhichong Industrial Park, Hi-Tech Zone, Jiangmen City,

Guangdong Province, China

SECTION CHARGE: Quality Assurance Department

TEL/FAX: +86-750-3689920/+86-750-3689921

EMERGENCY TEL: +86-750-3689708





Test Report No. CANEC2222380701 Date: 26 Oct 2022 Page 1 of 4

Client Name: SHENZHEN HUALIANWEI ELECTRONICS TECHNOLOGY CO.,LTD

Client Address: 101, 201, PLANT 1, NO.307, GUANLAN GUIHUA ROAD, GUIXIANG COMMUNITY, GUANLAN

SUB-DISTRICT, LONGHUA DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, CHINA

Sample Name: C2680 Terminal

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

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

SGS Job No. : CP22-057100 - GZ

Date of Sample Received: 20 Oct 2022

Testing Period: 20 Oct 2022 - 26 Oct 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).

Result Summary:

Test Requested	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU-	PASS
Lead, Mercury, Cadmium and Hexavalent chromium	

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



Dongyu Xie
Approved Signatory



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Test Report No. CANEC2222380701 Date: 26 Oct 2022 Page 2 of 4

Test Result(s):

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN22-223807.001 Silver-grey/brassy metal

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 and **Hexavalent chromium**

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

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	3
Mercury (Hg)	1000	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
- (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.

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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No. CANEC2222380701

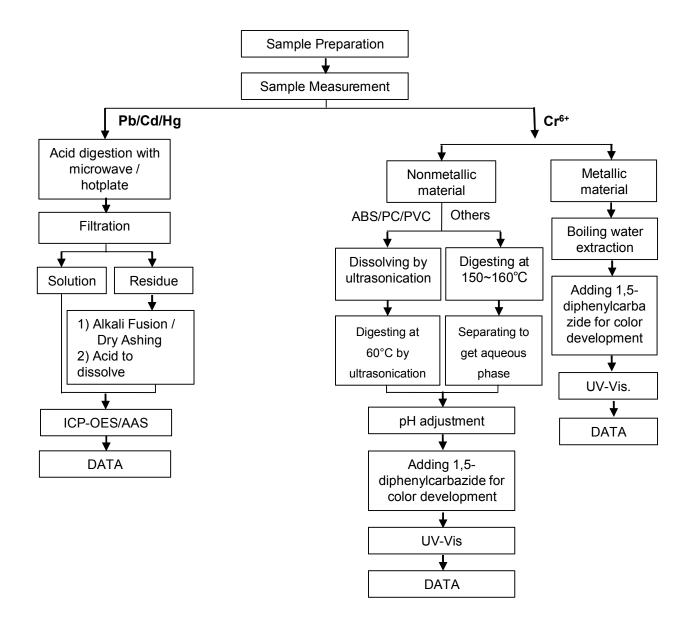
Date: 26 Oct 2022

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. CANEC2222380701

Page 4 of 4

Date: 26 Oct 2022

Sample photo:



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Test Report No. CANEC2222380708 Date: 26 Oct 2022 Page 1 of 6

Client Name: SHENZHEN HUALIANWEI ELECTRONICS TECHNOLOGY CO.,LTD

Client Address: 101, 201, PLANT 1, NO.307, GUANLAN GUIHUA ROAD, GUIXIANG COMMUNITY, GUANLAN

SUB-DISTRICT, LONGHUA DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, CHINA

Sample Name: LCP plastic black color

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

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

SGS Job No. : CP22-057100 - GZ

Date of Sample Received: 20 Oct 2022

Testing Period: 20 Oct 2022 - 26 Oct 2022

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

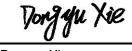
Test Method(s): Please refer to next page(s).

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

Result Summary:

Test Requested	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU-	PASS
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)	

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



Dongyu Xie Approved Signatory





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Test Report No. CANEC2222380708 Date: 26 Oct 2022 Page 2 of 6

Test Result(s):

Test Part Description:

Specimen No. SGS Sample ID Description SN1 CAN22-223807.008 Black plastic

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 62321-7-2:2017, IEC 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)	1000	mg/kg	2	6
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1000	mg/kg	8	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 Report	No. CANEC2222380708		Date: 2	6 Oct 2022	Page 3 of 6	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>008</u>		
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) 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.

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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No. CANEC2222380708

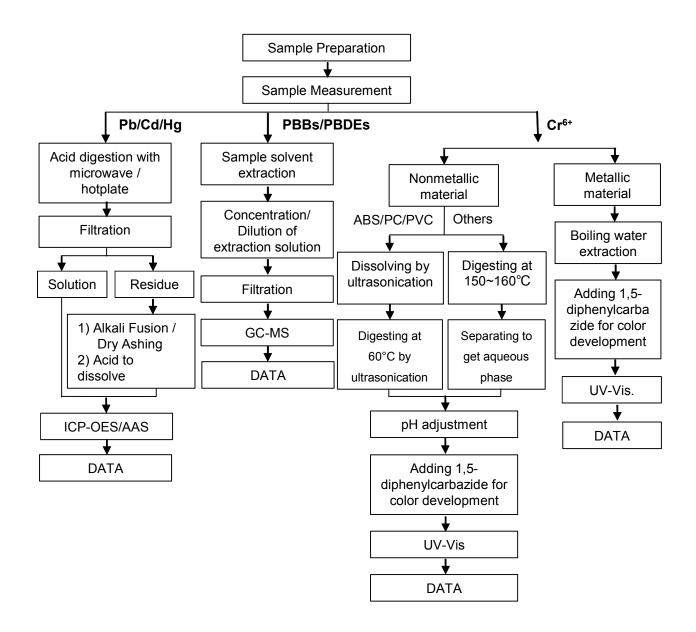
Date: 26 Oct 2022

Page 4 of 6

ATTACHMENTS

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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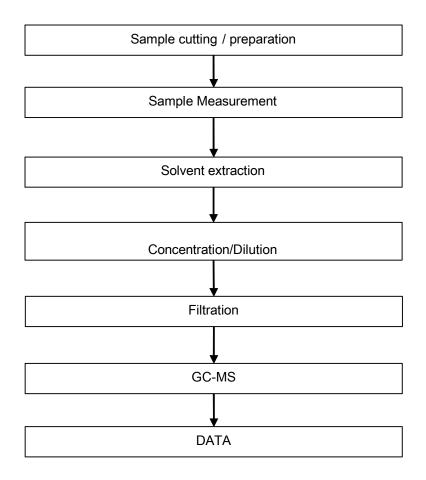


No. CANEC2222380708

Date: 26 Oct 2022 Page 5 of 6

ATTACHMENTS

Phthalates Testing Flow Chart





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No. CANEC2222380708

Date: 26 Oct 2022 Page 6 of 6

Sample photo:



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Test Report No. CANEC2218227001 Date: 30 Aug 2022 Page 1 of 8

Client Name: SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD

Client Address: TONGHUA MANSIN TONGLE XINBU VILLANG TOWN SHENZHEN CITY CHINA

Sample Name: Nickel(Ni)

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

SGS Job No. : CP22-047169 - SZ

Date of Sample Received: 25 Aug 2022

Testing Period : 25 Aug 2022 - 30 Aug 2022

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

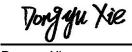
Test Method(s): Please refer to next page(s).

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

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
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



Dongyu Xie Approved Signatory





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Test Report No. CANEC2218227001 Date: 30 Aug 2022 Page 2 of 8

Test Result(s):

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN22-182270.001 Silver-gray plated metal

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)

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)	1000	mg/kg	2	49
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 Report	No. CANEC2218227001		Date: 3	0 Aug 2022	Page 3 of 8
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
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.

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

Notes:



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No. CANEC2218227001 Date: 30 Aug 2022 Page 4 of 8

(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)

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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No. CANEC2218227001

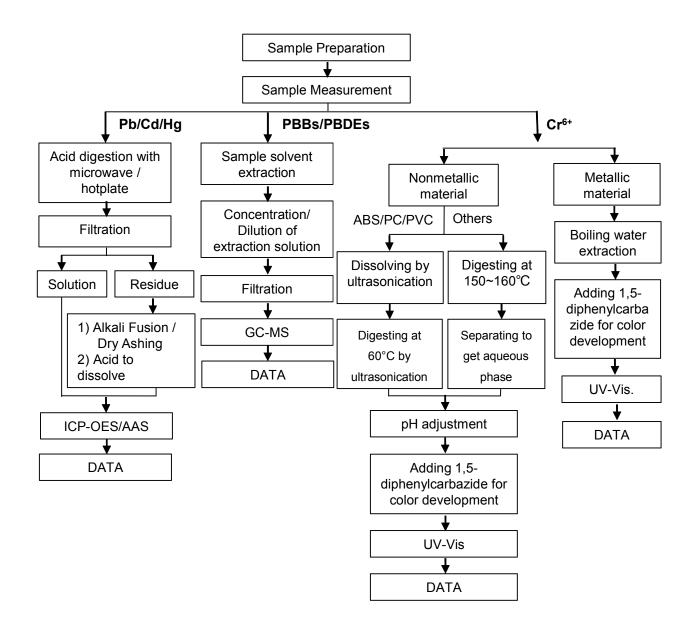
Date: 30 Aug 2022

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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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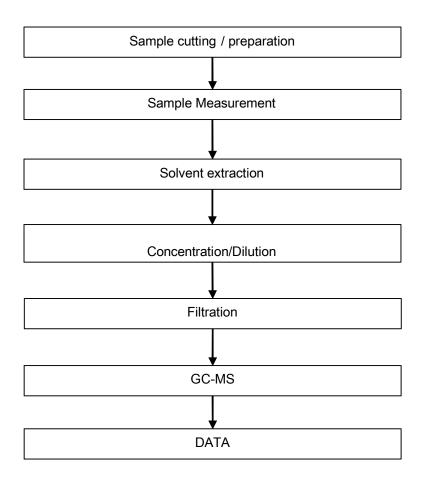
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Date: 30 Aug 2022

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Phthalates Testing Flow Chart





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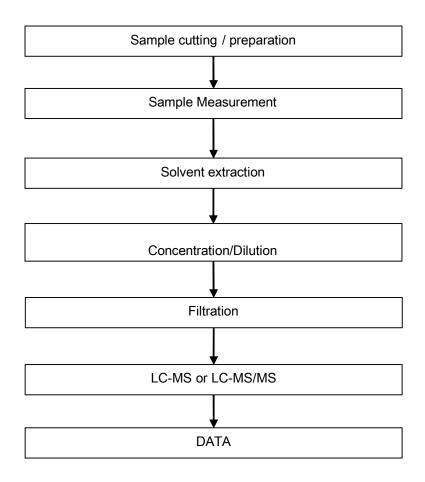
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PFOA / PFOS Testing Flow Chart





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No. CANEC2218227001

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Date: 30 Aug 2022

Sample photo:



SGS authenticate the photo on original report only

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Test Report Date: 30 Aug 2022 No. CANEC2218227003 Page 1 of 8

SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD Client Name:

Client Address: TONGHUA MANSIN TONGLE XINBU VILLANG TOWN SHENZHEN CITY CHINA

Sample Name: Bright Tin(SN)

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

SGS Job No.: CP22-047169 - SZ

Date of Sample Received: 25 Aug 2022

Testing Period: 25 Aug 2022 - 30 Aug 2022

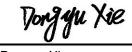
Test Requested: Selected test(s) as requested by the client.

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

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
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



Dongyu Xie Approved Signatory





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Test Report No. CANEC2218227003 Date: 30 Aug 2022 Page 2 of 8

Test Result(s):

Test Part Description:

Specimen No. SGS Sample ID Description

> SN1 CAN22-182270.003 Silver-gray plated metal

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)

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)	1000	mg/kg	2	44
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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No. CANEC22182270	03	Date: 3	30 Aug 2022	Page 3 of 8
<u>Limit</u>	<u>Unit</u>	MDL	<u>003</u>	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
	Limit 1000 1000	- mg/kg 1000 mg/kg 1000 mg/kg	LimitUnitMDL-mg/kg5-mg/kg5-mg/kg5-mg/kg5-mg/kg5-mg/kg51000mg/kg501000mg/kg501000mg/kg501000mg/kg50	Limit Unit MDL 003 - mg/kg 5 ND 1000 mg/kg 50 ND 1000 mg/kg 50 ND 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.

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

Notes:



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No. CANEC2218227003 Date: 30 Aug 2022 Page 4 of 8

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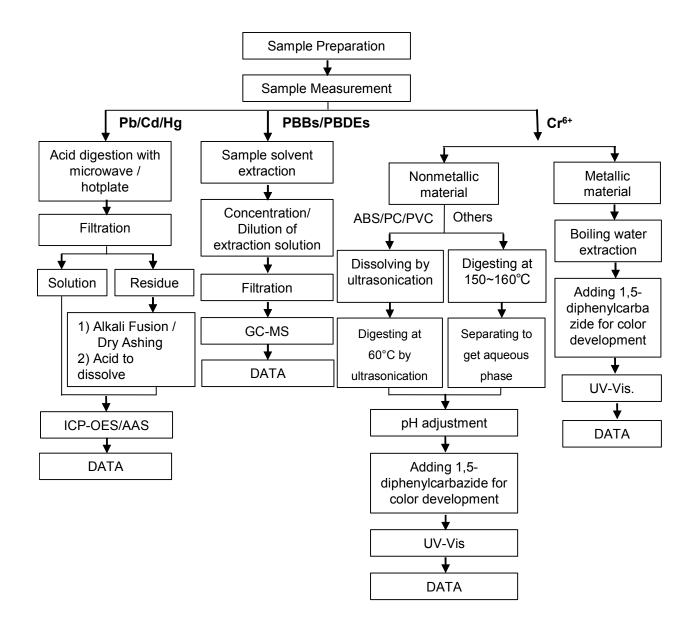
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

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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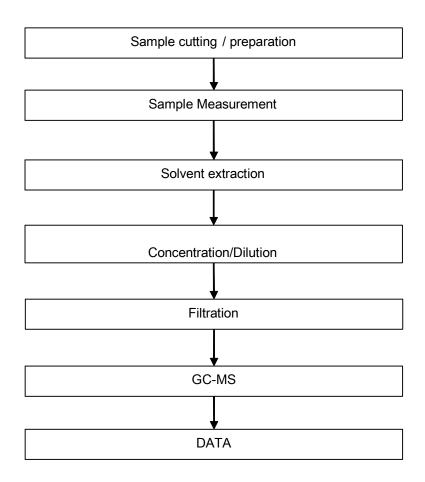
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Phthalates Testing Flow Chart





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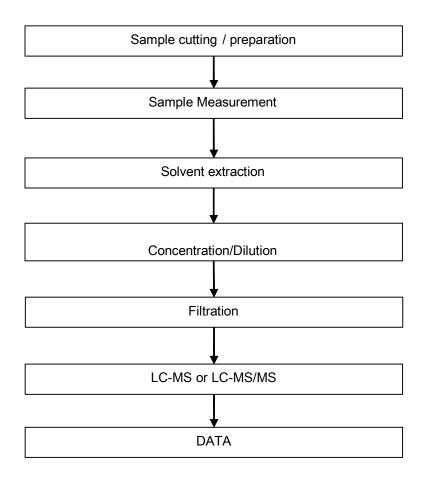
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PFOA / PFOS Testing Flow Chart





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Test Report No. CANEC2218227002 Date: 30 Aug 2022 Page 1 of 8

Client Name: SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD

Client Address: TONGHUA MANSIN TONGLE XINBU VILLANG TOWN SHENZHEN CITY CHINA

Sample Name : Gold (AU)

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

SGS Job No. : CP22-047169 - SZ

Date of Sample Received: 25 Aug 2022

Testing Period : 25 Aug 2022 - 30 Aug 2022

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

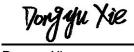
Test Method(s): Please refer to next page(s).

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

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
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



Dongyu Xie Approved Signatory





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Test Report No. CANEC2218227002 Date: 30 Aug 2022 Page 2 of 8

Test Result(s):

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN22-182270.002 Gold plated metal

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)

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>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	50
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 Report	No. CANEC2218227002		Date: 3	30 Aug 2022	Page 3 of 8
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
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.

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>	MDL	002
· ·	CAO NO.	Offic	IVIDE	002
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

Notes:



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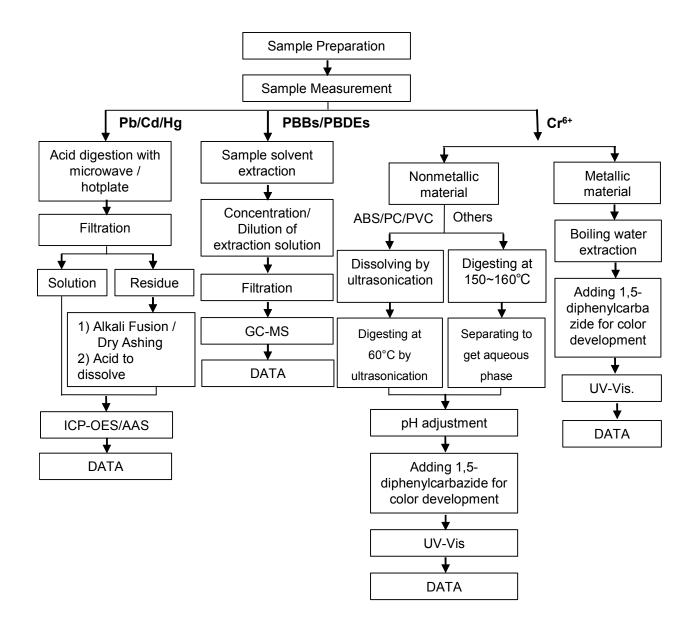
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

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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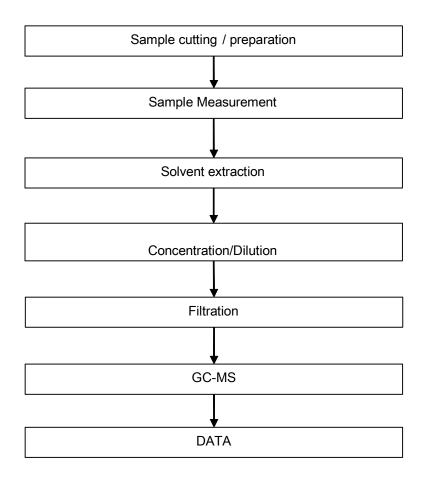


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Phthalates Testing Flow Chart





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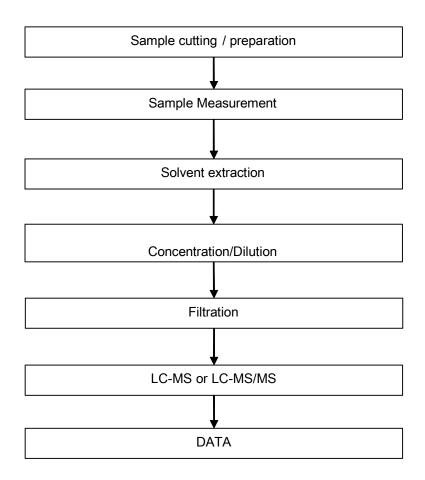
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PFOA / PFOS Testing Flow Chart





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