

## Test Report

No. TSNEC2102653505

Date: 04 Jan 2022

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TIANSHUI HUATIAN TECHNOLOGY CO.,LTD

NO.88,CHIYU ROAD,QINZHOU DISTRICT,TIANSHUI CITY,GANSU PROVINCE

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

LQFP(1010)064-PINLEAD PLAYING PART(PURE TIN PLATING PRODUCT) base material is copper Alloy

SGS Job No. : TP21-008776 - TJ

Client Ref. Info. : PQFP44L(1010\*2.1-L13.2)/PQFP64L(1414\*2.0)/PQFP100L  
(1420\*2.75)/PQFP128L(1420\*2.75)/LQFP32L(0707\*1.4)/LQFP44L  
(1010\*1.4)/LQFP48L(0707\*1.4)/ETQFP48L(0707\*1.0)/ELQFP48L  
(0707\*FC-T1.4)/TQFP48L(0707\*1.0)/LQFP52L(1414\*1.4)/ELQFP52L  
(1010\*1.4)/LQFP64L(0707\*1.4)/LQFP64L(1010\*1.4)/LQFP64L  
(1414\*1.4)/ELQFP64L(1010\*1.4)/LQFP80L(1010\*1.4)/LQFP80L  
(1212\*1.4)/LQFP100L(1414\*1.4)/ELQFP100L(1414\*1.4)/LQFP128L  
(1414\*1.4)/ELQFP128L(1414\*1.4)/LQFP144L(2020\*1.4)/LQFP176L  
(2020\*1.4)/ELQFP144L(2020\*1.4)/ELQFP176L(2020\*1.4)etc

Date of Sample Received : 21 Dec 2021

Testing Period : 21 Dec 2021 - 31 Dec 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) 005, 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.

Based on the performed tests on submitted sample(s) 006, 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.



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Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.



Reabeca Zhou  
Approved Signatory

scan to see the report



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SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.  
Chemical Laboratory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	TSN21-026535.005	black body part
SN2	TSN21-026535.006	silvery pin part

Remarks :

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

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

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

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>005</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
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



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>005</u>
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series

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(2) 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.

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

Test Method : With reference to IEC 62321-5:2013, IEC 62321-4:2013+AMD1:2017, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm <sup>2</sup>	0.10	ND

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series

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(2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm<sup>2</sup>. 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/cm<sup>2</sup>). The

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coating is considered a non-CrVI based coating  
 c. The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> 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.

**Total Fluorine(F), Chlorine(Cl), Bromine (Br), Iodine (I)**

Test Method : With reference to ASTM D 7359-13, analysis was performed by Combustion Ion Chromatography-CIC.

Test Item(s)	Unit	MDL	005
Fluorine (F)	mg/kg	20	ND
Chlorine (Cl)	mg/kg	20	ND
Bromine (Br)	mg/kg	20	ND
Iodine (I)	mg/kg	20	ND

Notes :

(1) The test was subcontracted to SGS Shanghai chemical lab.

**Perfluorooctane Sulfonates (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA) and its salts**

Test Method : With reference to CEN/TS 15968:2010, analysis was performed by LC/MSMS.

Test Item(s)	CAS NO.	Unit	MDL	005
Perfluorooctane Sulfonates (PFOS) and its derivatives		mg/kg	-	ND
Perfluorooctane Sulfonates (PFOS) ^	1763-23-1	mg/kg	0.01	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.01	ND
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	mg/kg	0.01	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2	mg/kg	0.01	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (MeFOSE)	24448-09-7	mg/kg	0.01	ND
Perfluorooctane sulfonamide (PFOSA)	754-91-6	mg/kg	0.01	ND
Perfluorooctanoic Acid (PFOA) and its salts+		mg/kg	0.01	ND

Notes :

(1) ^ 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)  
 (2) + 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).



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### Phthalates

Test Method : With reference to EN14372: 2004, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>005</u>
Diisononyl Phthalate (DINP)	28553-12-0/ 68515-48-0	% (w/w)	0.01	ND
Diisodecyl Phthalate (DIDP)	26761-40-0/ 68515-49-1	% (w/w)	0.01	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	% (w/w)	0.003	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	% (w/w)	0.003	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	% (w/w)	0.003	ND
Diisopentyl Phthalate (DIPP)	605-50-5	% (w/w)	0.003	ND
n-pentyl Isopentyl phthalate (nPIPP)	776297-69-9	% (w/w)	0.003	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	% (w/w)	0.003	ND



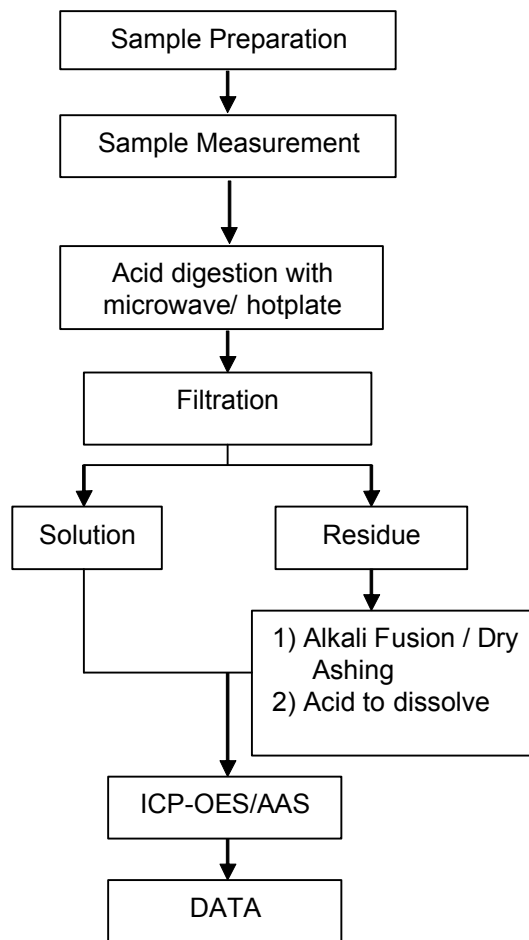
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**Elements (IEC62321) Testing Flow Chart**

- 1) Name of the person who made testing: Crystal Wang
- 2) Name of the person in charge of testing: Aaron Wang
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart.



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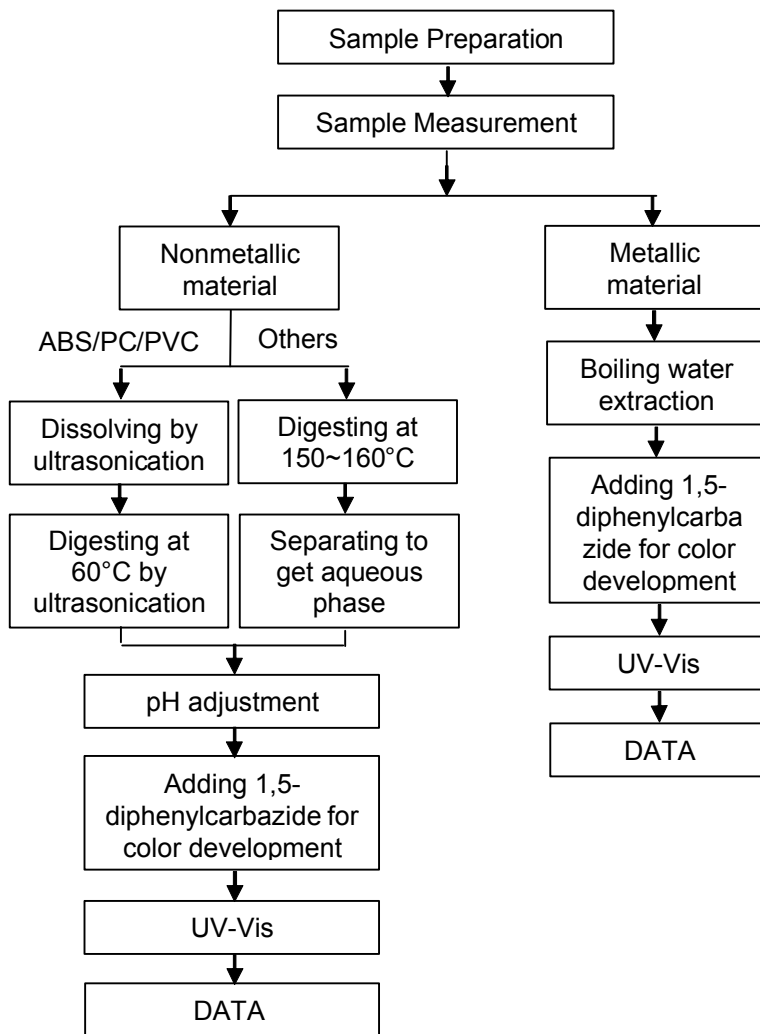
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### Hexavalent Chromium (Cr(VI)) Testing Flow Chart

- 1) Name of the person who made testing: Jason Li
- 2) Name of the person in charge of testing: Aaron Wang



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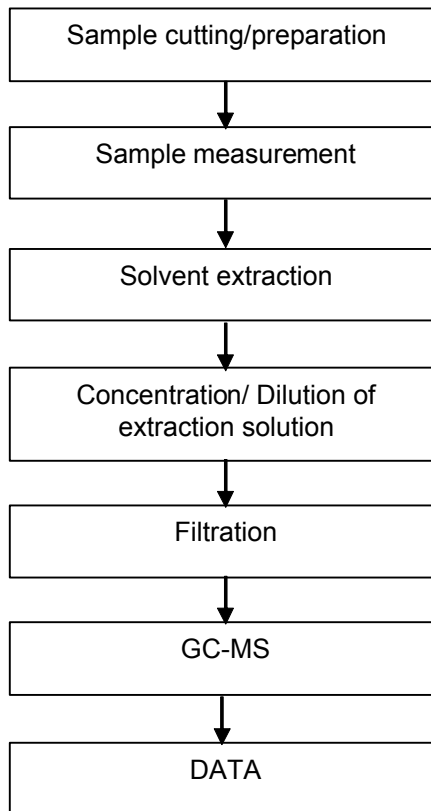
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### Flame Retardants Testing Flow Chart

- 1) Name of the person who made testing: Jayson Zhang
- 2) Name of the person in charge of testing: Rex Zhu



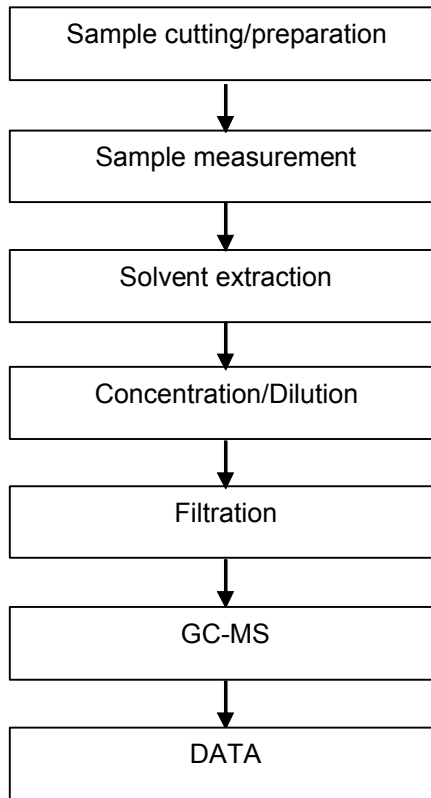
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Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Gary Li
- 2) Name of the person in charge of testing: Rex Zhu



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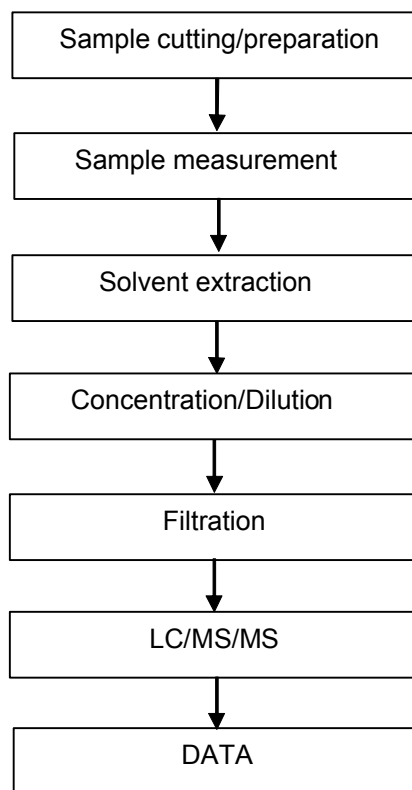
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### PFOS/PFOA Testing Flow Chart

- 1) Name of the person who made testing: Gary Li
- 2) Name of the person in charge of testing: Rex Zhu



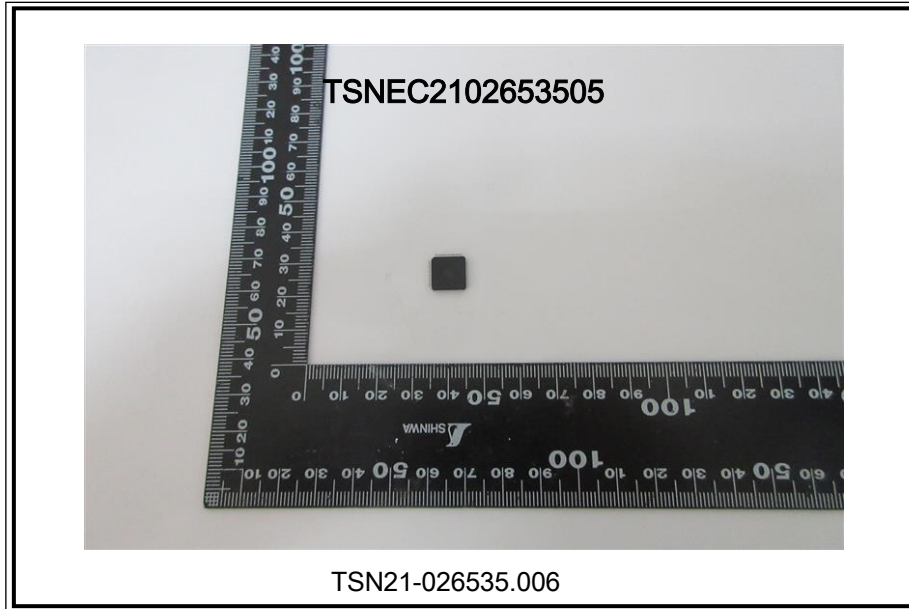
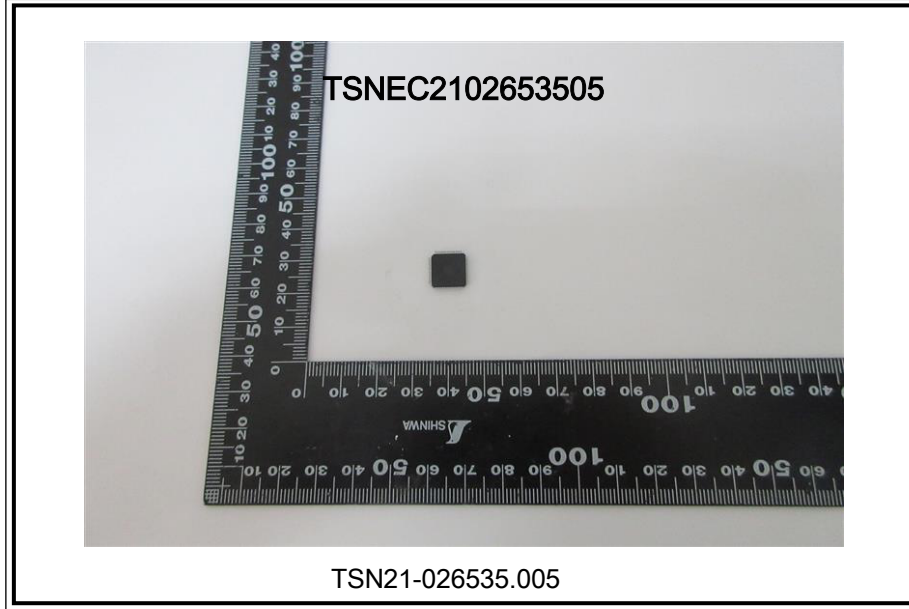
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