



检测报告

Test Report

报告编号 A2220009109101001E
Report No. A2220009109101001E

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报告抬头公司名称 乐清市普士康电子有限公司
Company Name YUEQING PUSHIKANG ELECTRONICS CO., LTD.
shown on Report
地 址 中国浙江省乐清市淡溪镇龙川村川沙路村民中心大楼 4 层
Address FLOOR 4,VILLAGE CENTER BUILDING,CHUANSHA ROAD, LONGCHUAN VILLAGE,DANXI TOWN,YUEQING CITY,ZHEJIANG PROVINCE,CHINA.

以下测试之样品及样品信息由申请者提供并确认

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

样品名称 fqc 连接器, 高清座
Sample Name connector, HDMI
样品接收日期 2022.01.07
Sample Received Date Jan. 7, 2022
样品检测日期 2022.01.07-2022.01.11
Testing Period Jan. 7, 2022 to Jan. 11, 2022

检测要求 根据客户要求, 参照法规(EC) No 1907/2006(REACH), 对所提交样品中 72 种高关注物质(SVHC)进行筛选测试。
Test Requested As specified by client, to screen the 72 substances of very high concern (SVHC) under Regulation(EC) No 1907/2006 of REACH in the submitted sample(s).

检测依据/检测结果 请参见下页。
Test Method/Test Result(s) Please refer to the following page(s).

摘要 根据分析结果, 所提交样品中 72 种 SVHC 物质的浓度均小于 0.1%(w/w)。
Summary According to the analytical results, concentrations of 72 SVHC substances are all less than 0.1%(w/w) in the submitted sample(s).

主 检 刘 宇
Tested by

审 核 黄 艳
Reviewed by

批 准 刘琳慧
Approved by

日 期 2022.01.11
Date

刘琳慧

授权签字人 Lab Authorized

Signatory

No. T428351456

广东省深圳市宝安区新安街道兴东社区华测检测大楼

华测检测认证集团股份有限公司
检验检测专用章
Centre Testing International Group Co., Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

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检测结果 Test Result(s)

批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	浓度 Concentration (%)	报告 检出限 Report Limit (%)
-	-	所有 SVHC 物质（见候选清单） All tested SVHC (See the candidate list)	-	-	N.D.	-

检测依据 Test Method:

参考 US EPA3052:1996, US EPA 3050B:1996, US EPA3060A:1996, EN 14582:2016 进行样品预处理。
Refer to US EPA3052:1996, US EPA 3050B:1996, US EPA3060A:1996, EN 14582:2016 for sample pretreatment.
采用 ICP-OES, UV-Vis, PLM, SEM 及 IC 分析。
Analyzed by ICP-OES, UV-Vis, PLM, SEM and IC.

样品/部位描述 混测，带有银色镀层的金属、带有银白色镀层的金属和带有银白色/金色镀层的金属
Sample/Part Description Mixed test, metal with silvery plating, metal with silver-white plating and metal with silver-white/golden plating

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备注 Remark:

1. 结果仅显示检出的 SVHC 物质, 低于报告检出限的 SVHC 物质没有列出。所有测试的 SVHC 物质见下页的 SVHC 候选清单。The table of tested result(s) only shows detected SVHC, and SVHC that below Report Limit are not reported. Please refer to the Candidate List of SVHC on next pages.
2. w/w % = 重量百分比 weight by weight; 0.1% = 1000mg/kg = 1000ppm
3. N.D. = 未检出 Not Detected (小于报告检出限<report limit)
4. *:该物质的浓度值是由物质中的特征元素测试结果换算而来。Concentration value of the substance by the conversion from the test results of certain elements.
5. **:在化学物质及其混合物的分类, 标记与包装法规, 即 CLP 法规(法规(EC)No 1272/2008)的附录 VI 中, 索引号 650-017-00-8 适用于所有的耐火陶瓷纤维材料。All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation (Regulation (EC) No 1272/2008).
6. ***:C.I.:颜料索引号 Colour Index
7. *****:四硼酸钠, 无水 and 四硼酸钠, 水合物的浓度均由四硼酸钠浓度表示, 没有考虑结晶水。过硼酸钠, 水合物; 过硼酸钠盐和过硼酸钠, 无水的浓度均由过硼酸钠浓度表示, 没有考虑结晶水。Concentration value of Disodium tetraborate, anhydrous and Tetraboron disodium heptaoxide, hydrate is evaluated by Disodium tetraborate, with no consider of the hydrate. Concentration value of Sodium perborate; perboric acid, sodium salt; Sodium peroxometaborate is evaluated by Sodium perborate, with no consider of the hydrate.
8. ①:由于这些物质是 UVCB 物质(未知成分或可变成成分的, 复杂反应物或生物材料的物质), 由各种不同的成分组成, 所以这些物质的测试结果是由选定的具有代表性的物质的主要组成成分的测试结果换算而来的。当其测试结果 $\geq 0.1\%$ w/w 时, 对于该物质是否存在于样品中需核查相应物料的 MSDS 或向供应商进行确认。In view of the substances are established as UVCB substances(substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances. When the content of the representative substances is equal to or higher than 0.1% (w/w), the presence of the substance in the sample need to be further confirmed by checking MSDS or requesting from suppliers.
9. ②:由于此物质含有多种物质, 测试结果是基于此物质中最具有代表性的主要组成化合物的含量, 其主要组成化合物的测试结果是基于特征元素的浓度换算而来。In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of the representative compounds are calculated based on the result of specified heavy metal elements.
10. 根据客户要求, 对样品进行混合测试, 测试结果不代表混合测试样品中任何一种单一材质的含量。As specified by client, the test was conducted by mixing several samples together. The result(s) shown on this report may be different from the content of any homogeneous material.

注释 Note:

本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。

The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

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SVHC候选清单Candidate List of SVHC

批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告检出限 Report Limit (%)
I	1	二氯化钴 Cobalt dichloride*	7646-79-9	231-589-4	0.01
I	2	五氧化二砷 Diarsenic pentaoxide*	1303-28-2	215-116-9	0.01
I	3	三氧化二砷 Diarsenic trioxide*	1327-53-3	215-481-4	0.01
I	4	重铬酸钠 Sodium dichromate*	7789-12-0 10588-01-9	234-190-3	0.01
I	5	砷酸氢铅 Lead hydrogen arsenate*	7784-40-9	232-064-2	0.01
I	6	三乙基砷酸酯 Triethyl arsenate*	15606-95-8	427-700-2	0.01
II	7	②铬酸铅 Lead chromate	7758-97-6	231-846-0	0.05
II	8	②钼铬红(C.I.颜料红 104) Lead chromate molybdate sulphate red (C.I. Pigment Red 104)***	12656-85-8	235-759-9	0.05
II	9	②铅铬黄(C.I.颜料黄 34) Lead sulfochromate yellow(C.I. Pigment Yellow 34)***	1344-37-2	215-693-7	0.05
III	10	硼酸 Boric acid*	10043-35-3 11113-50-1	233-139-2 234-343-4	0.01
III	11	②四硼酸钠, 无水 Disodium tetraborate, anhydrous*****	1330-43-4 12179-04-3 1303-96-4	215-540-4	0.01
III	12	②四硼酸钠, 水合物 Tetraboron disodium heptaoxide, hydrate*****	12267-73-1	235-541-3	0.01
III	13	铬酸钠 Sodium chromate*	7775-11-3	231-889-5	0.01
III	14	铬酸钾 Potassium chromate*	7789-00-6	232-140-5	0.01
III	15	重铬酸铵 Ammonium dichromate*	7789-09-5	232-143-1	0.01
III	16	重铬酸钾 Potassium dichromate*	7778-50-9	231-906-6	0.01
IV	17	硫酸钴 Cobalt(II) sulphate*	10124-43-3	233-334-2	0.01
IV	18	硝酸钴 Cobalt(II) dinitrate*	10141-05-6	233-402-1	0.01
IV	19	碳酸钴 Cobalt(II) carbonate*	513-79-1	208-169-4	0.01
IV	20	醋酸钴 Cobalt(II) diacetate*	71-48-7	200-755-8	0.01
IV	21	三氧化铬 Chromium trioxide*	1333-82-0	215-607-8	0.01

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IV	22	^① 铬酸及其低聚物、重铬酸及其低聚物 Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2	231-801-5 236-881-5	0.01
V	23	铬酸锶 Strontium chromate*	7789-06-2	232-142-6	0.01
VI	24	铬酸铬 Dichromium tris(chromate)*	24613-89-6	246-356-2	0.01
VI	25	氢氧化铬酸锌钾 Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	234-329-8	0.01
VI	26	氢氧化铬酸锌 Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	0.01
VI	27	^② 硅酸铝耐火陶瓷纤维 Aluminosilicate Refractory Ceramic Fibres (RCF) **	-	-	0.05
VI	28	^② 氧化锆硅酸铝耐火陶瓷纤维 Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) **	-	-	0.05
VI	29	砷酸 Arsenic acid*	7778-39-4	231-901-9	0.01
VI	30	砷酸钙 Calcium arsenate*	7778-44-1	231-904-5	0.01
VI	31	砷酸铅 Trilead diarsenate*	3687-31-8	222-979-5	0.01
VI	32	叠氮化铅 Lead diazide, Lead azide*	13424-46-9	236-542-1	0.01
VI	33	2,4,6-三硝基间苯二酚铅 (别名: 收敛酸铅) Lead styphnate*	15245-44-0	239-290-0	0.01
VI	34	苦味酸铅 Lead dipicrate*	6477-64-1	229-335-2	0.01
VII	35	三氧化二硼 Diboron trioxide*	1303-86-2	215-125-8	0.01
VII	36	甲基磺酸铅 Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	0.01
VIII	37	氧化铅与硫酸铅的复合物 Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	0.01
VIII	38	双(十八烷基)二氧化三铅 Dioxobis(stearato)trilead*	12578-12-0	235-702-8	0.01
VIII	39	硝酸铅 Lead dinitrate*	10099-74-8	233-245-9	0.01
VIII	40	三碱式硫酸铅 Tetralead trioxide sulphate*	12202-17-4	235-380-9	0.01
VIII	41	氧化铅 Lead monoxide (lead oxide)*	1317-36-8	215-267-0	0.01

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批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告检出限 Report Limit (%)
VIII	42	钛酸铅 Lead titanium trioxide*	12060-00-3	235-038-9	0.01
VIII	43	碱式乙酸铅 Acetic acid, lead salt, basic*	51404-69-4	257-175-3	0.01
VIII	44	颜料黄 41 Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	0.01
VIII	45	四乙基铅 Tetraethyllead*	78-00-2	201-075-4	0.01
VIII	46	二盐基邻苯二甲酸铅 [Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	0.01
VIII	47	氨基氰铅盐 Lead cyanamidate*	20837-86-9	244-073-9	0.01
VIII	48	掺杂铅的硅酸钡 Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped*	68784-75-8	272-271-5	0.01
VIII	49	磷酸氧化铅 Trilead dioxide phosphonate*	12141-20-7	235-252-2	0.01
VIII	50	钛酸铅锆 Lead titanium zirconium oxide*	12626-81-2	235-727-4	0.01
VIII	51	碱式碳酸铅 Trilead bis(carbonate)dihydroxide*	1319-46-6	215-290-6	0.01
VIII	52	C16-18-脂肪酸铅盐 Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	0.01
VIII	53	四氧化三铅 Orange lead (lead tetroxide)*	1314-41-6	215-235-6	0.01
VIII	54	二碱式亚硫酸铅(II) Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	0.01
VIII	55	碱式硫酸铅 Lead oxide sulfate*	12036-76-9	234-853-7	0.01
VIII	56	四氟硼酸铅 Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	0.01
VIII	57	硅酸铅 Silicic acid, lead salt*	11120-22-2	234-363-3	0.01
IX	58	镉 Cadmium	7440-43-9	231-152-8	0.01
IX	59	氧化镉 Cadmium oxide*	1306-19-0	215-146-2	0.01
X	60	硫化镉 Cadmium sulphide*	1306-23-6	215-147-8	0.01
X	61	醋酸铅(II) Lead di(acetate)*	301-04-2	206-104-4	0.01
XI	62	氯化镉 Cadmium chloride *	10108-64-2	233-296-7	0.01

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批次 Batch	序号 No.	物质名称 Substance Name(s)	CAS 号 CAS No.	EC 号 EC No.	报告检出限 Report Limit (%)
XI	63	^② 过硼酸钠, 水合物; 过硼酸钠盐 Sodium perborate; perboric acid, sodium salt *****	15120-21-5 11138-47-9	239-172-9 234-390-0	0.01
XI	64	^② 过硼酸钠, 无水 Sodium peroxometaborate *****	7632-04-4	231-556-4	0.01
XII	65	氟化镉 Cadmium fluoride*	7790-79-6	232-222-0	0.01
XII	66	硫酸镉 Cadmium sulphate*	10124-36-4 31119-53-6	233-331-6	0.01
XVIII	67	硝酸镉 Cadmium nitrate*	10325-94-7	233-710-6	0.01
XVIII	68	碳酸镉 Cadmium carbonate*	513-78-0	208-168-9	0.01
XVIII	69	氢氧化镉 Cadmium hydroxide*	21041-95-2	244-168-5	0.01
XIX	70	铅 Lead	7439-92-1	231-100-4	0.01
XIX	71	八硼酸二钠 Disodium octaborate*	12008-41-2	234-541-0	0.01
XXV	72	硼酸钠盐 Orthoboric acid, sodium salt *	13840-56-7	237-560-2	0.01

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附加信息 Appendix:

1. 根据欧盟 REACH 法规（编号 1907/2006）第 33 条款之规定，物品类产品如果含有候选列表上的高度关注物质且在物品中的质量百分比超过 0.1%时，物品供应方需履行相关信息传递义务：

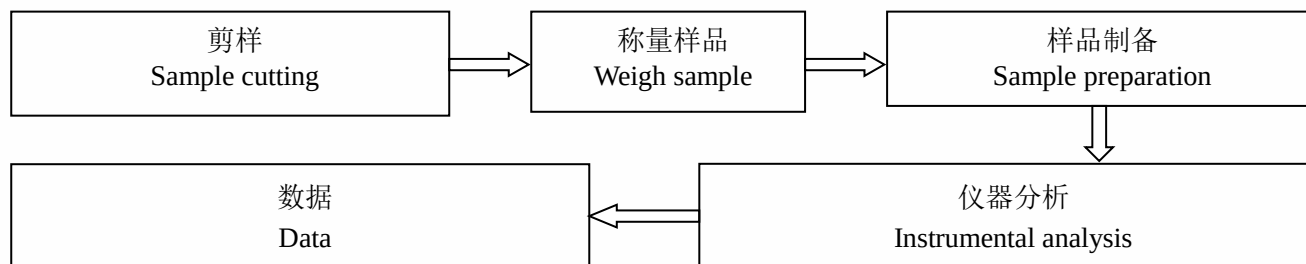
Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

- 物品供应方应提供给接收方关于产品的足够信息以确保物品的安全使用，至少需提供所含高度关注物质的名称。Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.
 - 应消费者请求，物品供应方应在 45 天内免费提供关于产品的足够信息以确保物品的安全使用，至少需提供所含高度关注物质的名称。On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.
2. 根据欧盟 REACH 法规（编号 1907/2006）第 31 条款及附件 2 之规定，提供高度关注物质的物质类产品供应方，应免费提供接收方该物质的安全数据表。The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 3 and Annex II of REACH.
3. 根据欧盟 REACH 法规（编号 1907/2006）第 31、32 条款及附件 2 之规定，提供含有高度关注物质的混合物产品供应方需传递相关信息：

The supplier of a mixture that containing a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.

- 如果混合物产品按照 1999/45/EC 被判定为危险品时，供应方应免费提供产品的安全数据表。Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.
- 如果混合物产品按照 1999/45/EC 判定并非危险品，但是任一高度关注物质在非气体混合物中质量分数超过 0.1%或在气体混合物中体积分数超过 0.2%，供应方也应免费提供产品的安全数据表。Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures or ≥ 0.2 % by volume for gaseous mixtures.

检测流程 Test Process



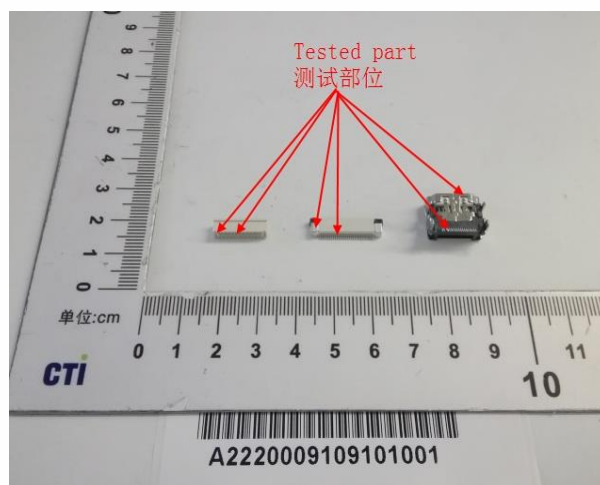
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样品图片

Photo(s) of the sample(s)



声明 Statement:

1. 检测报告无批准人签字、“专用章”及报告骑缝章无效;

This report is considered invalid without approved signature, special seal and the seal on the perforation;

2. 报告抬头公司名称及地址、样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI 未核实其真实性;

The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;

3. 本报告检测结果仅对受测样品负责;

The result(s) shown in this report refer(s) only to the sample(s) tested;

4. 未经 CTI 书面同意, 不得部分复制本报告;

Without written approval of CTI, this report can't be reproduced except in full;

5. 如检测报告中的英文内容与中文内容有差异, 以中文为准。

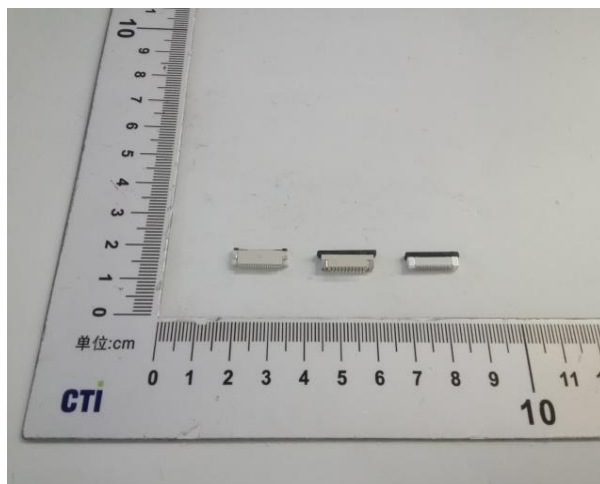
In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** 报告结束 ***

*** End of Report ***

附录 Appendix

客户参考图片（非测试样品） Client Reference Photo (Non-tested sample)



声明 Statement:

1. 附录内容由申请者提供，申请者应对其真实性负责，CTI 未核实其真实性。
The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
2. 附录内容为 A2220009109101001E 报告的补充。
The Appendix Information is/are the supplement(s) for the Report A2220009109101001E.