



中国认可
国际互认
检测
TESTING
CNAS L6483

Test Report

页码 Page: 1 / 15

报告编号
Report No.: DNT240380C0618-1305
申请商
Applicant: 益阳市鹏程科技发展有限公司
Yiyang Pengcheng Technology Development Co., Ltd
地址
Address: 湖南省益阳市龙岭工业区学府南路/解放西路 413000
South Xuefu Road/West jiefang Road, Longling Industrial Zone, Yiyang
City, 413000, Hunan Province, PRC
样品名称
Product description: Please refer to page 2
型号 Item No.: /
样品接收日期
Sample received date: 2024 年 03 月 13 日
Mar. 13, 2024
样品测试日期
Sample testing period: 2024 年 03 月 13 日 至 2024 年 03 月 19 日
Mar. 13, 2024 to Mar. 19, 2024
报告签发日期
Report issued Date: 2024 年 04 月 01 日
Apr. 01, 2024
测试结果 **Test results:** 请见下一页 Refer to next page

Tested By: 张增业 张增业

Reviewed By: 朱祈长 朱祈长

Approved By: 彭文启 彭文启

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Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

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附件 Appendix:

样品名称 Product Description	规格 Model	尺寸 Size	系列 Series
铝电解电容 （插件） Aluminum Electrolytic Capacitor (Radial type)	450V15uF	10*17	AL
铝电解电容 （插件贴片） Aluminum Electrolytic Capacitor (Lead shaped SMD type)	400V3.3uF	8*10.5	RVL
铝电解电容 （插件） Aluminum Electrolytic Capacitor (Radial type)	250V22uF	10*17	CL
铝电解电容 （插件） Aluminum Electrolytic Capacitor (Radial type)	16V3300uF	13*20	RR
铝电解电容 （焊针） Aluminum Electrolytic Capacitor (Snap in type)	450V100uF	22*25	LH
铝电解电容 （座板贴片） Aluminum Electrolytic Capacitor (SMD type)	35V100uF	6.3*7.7	RVT
固态电解电容 （插件） Solid Electrolytic Capacitor (Radial type)	16V2200uF	10*16	PZ

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测试结果 Test Results:

测试要求 Test Requested

欧盟指令 2011/65/EU 及其修订(EU) 2015/863, 电子电气设备中某些有害物质的限用
European Directive 2011/65/EU and amendment (EU) 2015/863 on the restriction of the use of certain
hazardous substances in electrical and electronic equipment

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**测试方法 Test Method:****A. XRF 扫描法 Screening test by XRF spectroscopy**

根据 IEC 62321-3-1:2013, XRF 扫描法的限值如下

XRF screening limits for regulated elements according to IEC 62321-3-1:2013

元素 Element	扫描限值 Screening limit / mg/kg		检出限 MDL	
	聚合物和金属 Polymers and metals	复合材料 Composite material	聚合物 Polymers	其它材料 Other material
铅 Lead (Pb)	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$	10mg/kg	50mg/kg
镉 Cadmium (Cd)	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD \leq (50-3\sigma) < X < (150+3\sigma) \leq OL$	10mg/kg	50mg/kg
汞 Mercury (Hg)	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$	10mg/kg	50mg/kg
铬 Chromium (Cr)	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$	10mg/kg	50mg/kg
溴 Bromine (Br)	$BL \leq (300-3\sigma) < X$ (non-metal only)	$BL \leq (250-3\sigma) < X$	10mg/kg	50mg/kg

B. 化学测试方法 Chemical Test

测试项目 Test Item(s)	测试方法 Test Method	分析仪器 Analysis Equipment(s)	方法检出限 MDL	限值 Limit
铅 Lead (Pb)	IEC 62321-5:2013	ICP-OES	10mg/kg	1000mg/kg
镉 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	10mg/kg	100mg/kg
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	10mg/kg	1000mg/kg
六价铬 Hexavalent Chromium Cr(VI)	IEC 62321-7-1:2015 & IEC 62321-7-2:2017	UV-VIS	10mg/kg	1000mg/kg
多溴联苯 (PBBs) Polybrominated Biphenyls	IEC 62321-6:2015	GC-MS	10mg/kg	1000mg/kg
多溴二苯醚 (PBDEs) Polybrominated Diphenyl Ethers	IEC 62321-6:2015	GC-MS	10mg/kg	1000mg/kg
邻苯二甲酸二丁酯 Dibutyl Phthalate	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg
邻苯二甲酸丁苄酯 Benzylbutyl Phthalate	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg
邻苯二甲酸二(2-乙基)己酯 Bis-(2-ethylhexyl)Phthalate	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg

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测试材料清单 Tested material list

序号 No.	描述 Description	测试材料的图片 Photo(s) of tested material
1	黑色塑胶 (铝电解电容塑胶片) Black plastic (round plate, aluminum electrolytic capacitor)	
2	黑色胶膜带白色印刷 (铝电解电容塑外皮保护套) Black plastic with white printing (sleeve, aluminum electrolytic capacitor)	
3	银色金属 (电解电容铝壳) Silvery metal (case, electrolytic capacitor)	
4	黑色软胶 (电解电容黑色胶片) Black soft plastic (base, electrolytic capacitor)	
5	棕色胶片 (电解电容黑色胶片) Brown plastic plate (base, aluminum electrolytic capacitor)	
6	银色金属 (电解电容银色金属钉) Silvery metal (stud, aluminum electrolytic capacitor)	
7	银色金属 (电解电容银色金属圈) Silvery metal (round plate, aluminum electrolytic capacitor)	
8	透明胶带 (电解电容透明胶纸) Transparent adhesive tape (aluminum electrolytic capacitor)	
9	棕色电解纸 (电解电容) Brown wet paper (aluminum electrolytic capacitor)	
10	电解电容银色铝箔 Silvery aluminum film (electrolytic capacitor)	
11	电解电容灰色铝箔 Grey aluminum film (electrolytic capacitor)	
12	电解电容铝片 Silvery metal (aluminum plate, electrolytic capacitor)	
13	电解电容引脚 Silvery metal (pin, aluminum electrolytic capacitor)	
14	绿色胶膜带白色印刷 (铝电解电容塑外皮保护套) Green plastic with white printing (sleeve, aluminum electrolytic capacitor)	

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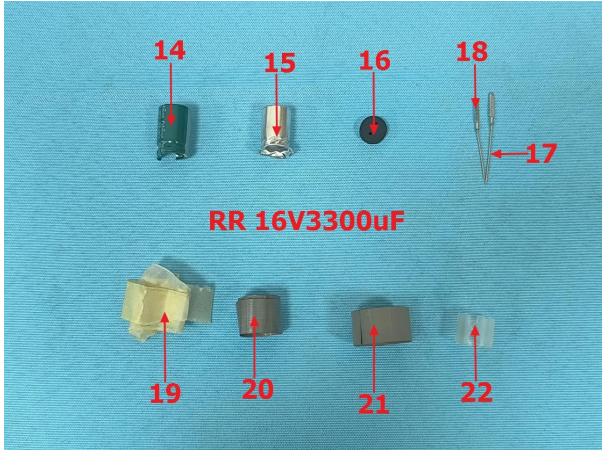
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15	银色金属（电解电容铝壳） Silvery metal (case, electrolytic capacitor)	
16	黑色软胶（电解电容黑色胶片） Black soft plastic (base, electrolytic capacitor)	
17	电解电容圆形引脚 Silvery metal (round pin, electrolytic capacitor)	
18	电解电容铝片 Silvery metal (aluminum plate, electrolytic capacitor)	
19	浅棕色电解纸（电解电容） Light brown wet paper (aluminum electrolytic capacitor)	
20	电解电容银色铝箔 Silvery aluminum film (electrolytic capacitor)	
21	电解电容浅灰色铝箔 Light grey aluminum film (aluminum electrolytic capacitor)	
22	透明胶带（电解电容透明胶纸） Transparent adhesive tape (aluminum electrolytic capacitor)	
23	蓝色胶膜带白色印刷（铝电解电容塑外皮保护套） Blue plastic with white printing (sleeve, aluminum electrolytic capacitor)	
24	银色金属（电解电容铝壳） Silvery metal (case, electrolytic capacitor)	
25	黑色软胶（电解电容黑色胶片） Black soft plastic (base, electrolytic capacitor)	
26	电解电容圆形引脚 Silvery metal (round pin, electrolytic capacitor)	
27	电解电容铝片 Silvery metal (aluminum plate, electrolytic capacitor)	
28	棕色电解纸（电解电容） Brown wet paper (aluminum electrolytic capacitor)	
29	电解电容银色铝箔 Silvery aluminum film (electrolytic capacitor)	
30	电解电容灰色铝箔 Grey aluminum film (electrolytic capacitor)	
31	透明胶带（电解电容透明胶纸） Transparent adhesive tape (aluminum electrolytic capacitor)	



32	绿色胶膜带金色印刷 (铝电解电容塑外皮保护套) Green plastic with gold printing (sleeve, aluminum electrolytic capacitor)	
33	银色金属 (电解电容铝壳) Silvery metal (case, electrolytic capacitor)	
34	黑色软胶 (电解电容黑色胶片) Black soft plastic (base, electrolytic capacitor)	
35	电解电容圆形引脚 Silvery metal (round pin, electrolytic capacitor)	
36	电解电容铝片 Silvery metal (aluminum plate, electrolytic capacitor)	
37	棕色电解纸 (电解电容) Brown wet paper (aluminum electrolytic capacitor)	
38	电解电容银色铝箔 Silvery aluminum film (electrolytic capacitor)	
39	电解电容灰色铝箔 Grey aluminum film (electrolytic capacitor)	
40	透明胶带 (电解电容透明胶纸) Transparent adhesive tape (aluminum electrolytic capacitor)	
41	白色胶膜带黑色印刷 (铝电解电容塑外皮保护套) White plastic with black printing (sleeve, aluminum electrolytic capacitor)	
42	银色金属 (电解电容铝壳) Silvery metal (case, electrolytic capacitor)	
43	黑色软胶 (电解电容黑色胶片) Black soft plastic (base, electrolytic capacitor)	
44	电解电容圆形引脚 Silvery metal (round pin, electrolytic capacitor)	
45	电解电容铝片 Silvery metal (aluminum plate, electrolytic capacitor)	
46	棕色电解纸 (电解电容) Brown wet paper (aluminum electrolytic capacitor)	
47	电解电容银色铝箔 Silvery aluminum film (electrolytic capacitor)	
48	电解电容灰色铝箔 Grey aluminum film (electrolytic capacitor)	
49	透明胶带 (电解电容透明胶纸) Transparent adhesive tape (aluminum electrolytic capacitor)	



50	银色金属带红色印刷（固态电解电容铝壳） Silvery metal with red surfaced (case, solid electrolytic capacitor)	
51	黑色软胶（固态电解电容黑色胶片） Black soft plastic (base, solid electrolytic capacitor)	
52	固态电解电容圆形引脚 Silvery metal (round pin, solid electrolytic capacitor)	
53	固态电解电容铝片 Silvery metal (aluminum plate, solid electrolytic capacitor)	
54	固态电解电容碳粉纸 Black toner paper (solid electrolytic capacitor)	
55	固态电解电容银色铝箔 Silvery aluminum film (solid electrolytic capacitor)	
56	固态电解电容灰色铝箔 Grey aluminum film (solid electrolytic capacitor)	
57	银色金属带黑色印刷（贴片电解电容铝壳） Silvery metal with black surfaced (case, chip electrolytic capacitor)	
58	贴片电解电容黑色塑料座 Black plastic (base, chip electrolytic capacitor)	
59	贴片电解电容引脚 Silvery metal (pin, chip electrolytic capacitor)	
60	电解电容铝片 Silvery metal (aluminum plate, electrolytic capacitor)	
61	黑色软胶（电解电容黑色胶片） Black soft plastic (base, electrolytic capacitor)	
62	浅棕色电解纸（电解电容） Light brown wet paper (aluminum electrolytic capacitor)	
63	电解电容银色铝箔 Silvery aluminum film (electrolytic capacitor)	
64	电解电容浅灰色铝箔 Light grey aluminum film (aluminum electrolytic capacitor)	

测试结果 Test Result(s):

序号 No.	XRF扫描测试结果 XRF screening Result					化学确认测试结果 Chemical confirm Result (mg/kg)	备注 Remark	结论 Conclusion
	铅Pb	镉Cd	汞Hg	铬Cr	溴Br			
1	BL	BL	BL	BL	BL	---	---	合格PASS

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2	BL	BL	BL	BL	BL	---	---	合格PASS
3	BL	BL	BL	BL	N/A	---	---	合格PASS
4	BL	BL	BL	BL	BL	---	---	合格PASS
5	BL	BL	BL	BL	BL	---	---	合格PASS
6	BL	BL	BL	BL	N/A	---	---	合格PASS
7	BL	BL	BL	BL	N/A	---	---	合格PASS
8	BL	BL	BL	BL	BL	---	---	合格PASS
9	BL	BL	BL	BL	BL	---	---	合格PASS
10	BL	BL	BL	BL	N/A	---	---	合格PASS
11	BL	BL	BL	BL	N/A	---	---	合格PASS
12	BL	BL	BL	BL	N/A	---	---	合格PASS
13	BL	BL	BL	BL	N/A	---	---	合格PASS
14	BL	BL	BL	BL	BL	---	---	合格PASS
15	BL	BL	BL	BL	N/A	---	---	合格PASS
16	BL	BL	BL	BL	BL	---	---	合格PASS
17	BL	BL	BL	BL	N/A	---	---	合格PASS
18	BL	BL	BL	BL	N/A	---	---	合格PASS
19	BL	BL	BL	BL	BL	---	---	合格PASS
20	BL	BL	BL	BL	N/A	---	---	合格PASS
21	BL	BL	BL	BL	N/A	---	---	合格PASS
22	BL	BL	BL	BL	BL	---	---	合格PASS
23	BL	BL	BL	BL	BL	---	---	合格PASS
24	BL	BL	BL	BL	N/A	---	---	合格PASS
25	BL	BL	BL	BL	BL	---	---	合格PASS
26	BL	BL	BL	BL	N/A	---	---	合格PASS
27	BL	BL	BL	BL	N/A	---	---	合格PASS
28	BL	BL	BL	BL	BL	---	---	合格PASS
29	BL	BL	BL	BL	N/A	---	---	合格PASS
30	BL	BL	BL	BL	N/A	---	---	合格PASS
31	BL	BL	BL	BL	BL	---	---	合格PASS

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32	BL	BL	BL	BL	BL	---	---	合格PASS
33	BL	BL	BL	BL	N/A	---	---	合格PASS
34	BL	BL	BL	BL	BL	---	---	合格PASS
35	BL	BL	BL	BL	N/A	---	---	合格PASS
36	BL	BL	BL	BL	N/A	---	---	合格PASS
37	BL	BL	BL	BL	BL	---	---	合格PASS
38	BL	BL	BL	BL	N/A	---	---	合格PASS
39	BL	BL	BL	BL	N/A	---	---	合格PASS
40	BL	BL	BL	BL	BL	---	---	合格PASS
41	BL	BL	BL	BL	BL	---	---	合格PASS
42	BL	BL	BL	BL	N/A	---	---	合格PASS
43	BL	BL	BL	BL	BL	---	---	合格PASS
44	BL	BL	BL	BL	N/A	---	---	合格PASS
45	BL	BL	BL	BL	N/A	---	---	合格PASS
46	BL	BL	BL	BL	BL	---	---	合格PASS
47	BL	BL	BL	BL	N/A	---	---	合格PASS
48	BL	BL	BL	BL	N/A	---	---	合格PASS
49	BL	BL	BL	BL	BL	---	---	合格PASS
50	BL	BL	BL	BL	BL	---	---	合格PASS
51	BL	BL	BL	BL	BL	---	---	合格PASS
52	BL	BL	BL	BL	N/A	---	---	合格PASS
53	BL	BL	BL	BL	N/A	---	---	合格PASS
54	BL	BL	BL	BL	BL	---	---	合格PASS
55	BL	BL	BL	BL	N/A	---	---	合格PASS
56	BL	BL	BL	BL	N/A	---	---	合格PASS
57	BL	BL	BL	BL	BL	---	---	合格PASS
58	BL	BL	BL	BL	BL	---	---	合格PASS
59	BL	BL	BL	BL	N/A	---	---	合格PASS
60	BL	BL	BL	BL	N/A	---	---	合格PASS
61	BL	BL	BL	BL	BL	---	---	合格PASS

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62	BL	BL	BL	BL	BL	---	---	合格PASS
63	BL	BL	BL	BL	N/A	---	---	合格PASS
64	BL	BL	BL	BL	N/A	---	---	合格PASS

测试项目 Test Item(s)	邻苯二甲酸二丁酯 Dibutyl Phthalate (DBP) (mg/kg)	邻苯二甲酸丁苄酯 Benzylbutyl Phthalate (BBP) (mg/kg)	邻苯二甲酸二异辛酯 Bis-(2-ethylhexyl)Pht halate (DEHP) (mg/kg)	邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) (mg/kg)	结论 Conclusion
化学文摘号 CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
限值 Limit	1000	1000	1000	1000	
序号 No.	测试结果 Result (mg/kg)				
1+5+4+58	N.D	N.D	N.D	N.D	合格PASS
2+14	N.D	N.D	N.D	N.D	合格PASS
9+19	N.D	N.D	N.D	N.D	合格PASS
8+54	N.D	N.D	N.D	N.D	合格PASS
23+32+41	N.D	N.D	N.D	N.D	合格PASS
22+31+40 +49	N.D	N.D	N.D	N.D	合格PASS
28+37	N.D	N.D	N.D	N.D	合格PASS
44+62	N.D	N.D	N.D	N.D	合格PASS
16+25	N.D	N.D	N.D	N.D	合格PASS
51+61	N.D	N.D	N.D	N.D	合格PASS
34+43	N.D	N.D	N.D	N.D	合格PASS

注释 Remark:

1. BL = 低于限值 below the limit
2. OL = 超出限值 over the limit
3. X = 无结论, 需要进行化学测试确认结果 inconclusive, chemical confirm test is needed
4. NA = 不适合 not applicable
5. mg/kg = 毫克每千克 milligram per kilogram = ppm
6. N.D = 未检出 (低于检出限) not detected (less than detection limit)
7. "阴性"指六价铬含量低于定量下限, 该金属涂层不视为六价铬涂层
Negative = The Cr^{6+} concentration is below the limit of quantification. The coating is considered a non- Cr^{6+} based coating.
8. "阳性"指六价铬含量高于定量下限, 该金属涂层视为六价铬涂层

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Positive = The Cr^{6+} concentration is above the limit of quantification and the statistical margin of error, The sample coating is considered to contain Cr^{6+} .

9. 混合测试时, 限值应该除以混测样品的个数

The limit for composite test should be divided by the mixed number.

注意事项 Note:

1. 采用 XRF 扫描的测试方法时, 检测物质多溴联苯/多溴联苯醚 (PBB/PBDE) 时扫描的是元素溴 (Br) 的含量, 检测物质六价铬 (Cr^{6+}) 时扫描的是元素铬 (Cr) 的含量。

When perform screening tests, it is the total Bromine result while test item on restricted substances is PBBs/PBDEs, and the total chromium result while test item on restricted substances is Cr^{6+} .

2. 采用 IEC 62321-3-1:2013 方法用 XRF 对样品进行预扫描, 当各元素的测试结果位于下表中的 "X" 区间时, 需采用合适的化学测试方法对组分进行化学测试以判定其符合性。(单位: mg/kg)

According to IEC 62321-3-1:2013, relative chemical tests should be performed when the screening result is in the field of "X" as below table:

元素 Element	聚合物材料 Polymer material	金属材料 Metal	复合材料 Composite material
镉 Cd	$\text{BL} \leq (70-3\sigma) < X < (130+3\sigma) \leq \text{OL}$	$\text{BL} \leq (70-3\sigma) < X < (130+3\sigma) \leq \text{OL}$	$\text{LOD} < X < (150+3\sigma) \leq \text{OL}$
铅 Pb	$\text{BL} \leq (700-3\sigma) < X < (1300+3\sigma) \leq \text{OL}$	$\text{BL} \leq (700-3\sigma) < X < (1300+3\sigma) \leq \text{OL}$	$\text{BL} \leq (500-3\sigma) < X < (1500+3\sigma) \leq \text{OL}$
汞 Hg	$\text{BL} \leq (700-3\sigma) < X < (1300+3\sigma) \leq \text{OL}$	$\text{BL} \leq (700-3\sigma) < X < (1300+3\sigma) \leq \text{OL}$	$\text{BL} \leq (500-3\sigma) < X < (1500+3\sigma) \leq \text{OL}$
溴 Br	$\text{BL} \leq (300-3\sigma) < X$	---	$\text{BL} \leq (250-3\sigma) < X$
镉 Cr	$\text{BL} \leq (700-3\sigma) < X$	$\text{BL} \leq (700-3\sigma) < X$	$\text{BL} \leq (500-3\sigma) < X$

3. 采用 XRF 对非均质材料进行扫描时, 基于样品的复杂性, 其测试结果可能与实际含量有偏差

For the XRF screening test for RoHS elements, the reading may be different to the actual content in the sample be of non-uniformity composition.

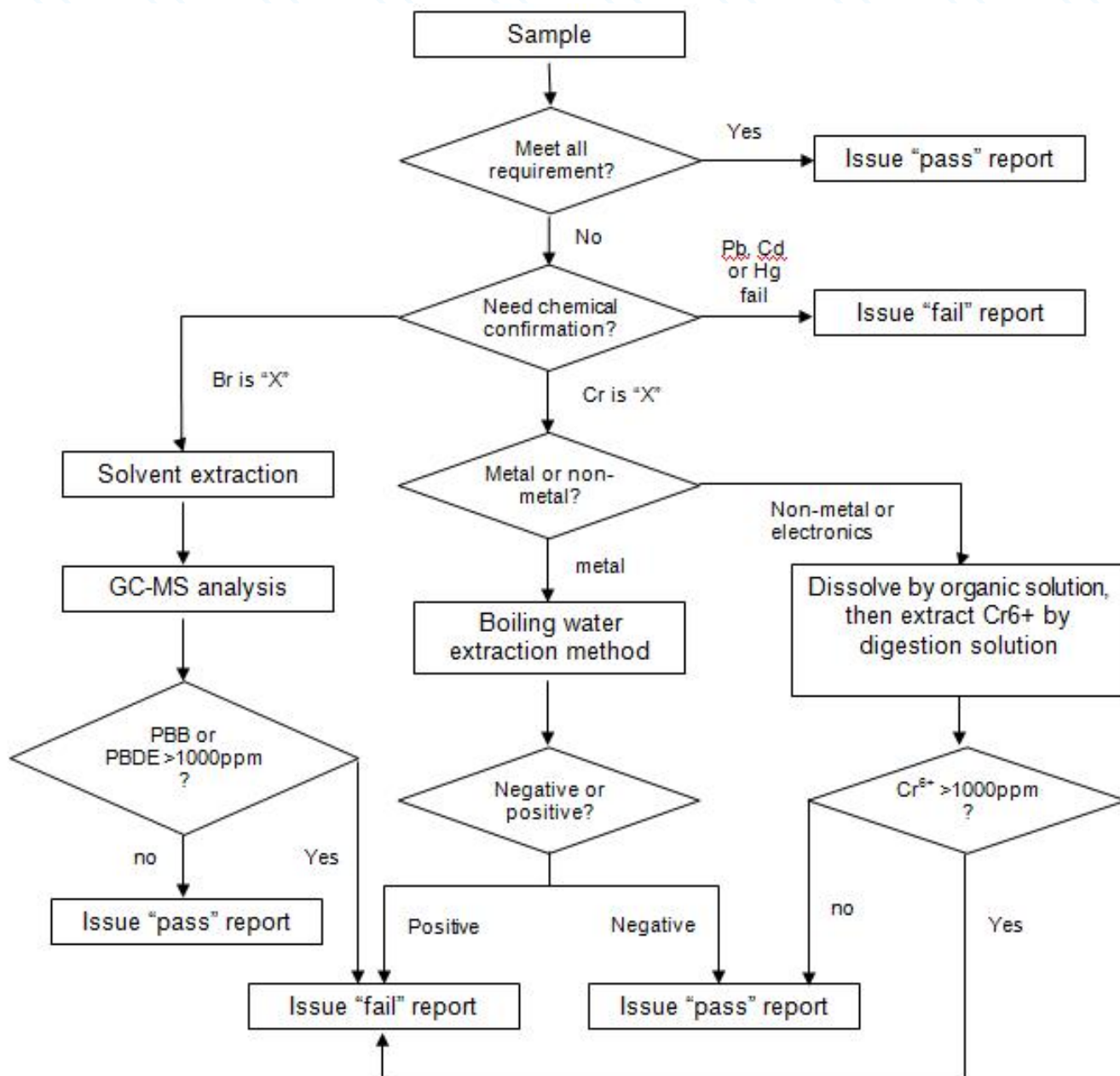
4. #该测试组分的铅含量超出 1000ppm 但未超出 40000ppm, 根据客户的声明, 可以依据 RoHS 指令附录 III 的第 6 (c) 条豁免, 能符合 RoHS 的限制要求

the lead content of tested component exceeded 1000ppm, but less than 40000ppm, it can comply with the RoHS directive, as it is exempted to contain lead with up to 40000ppm according to item 6(c) of annex III of 2011/65/EU, as per applicant's declaration.



测试流程图 Test flow chart

1. 铅、镉、汞、六价铬、多溴联苯和多溴二苯醚 Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs



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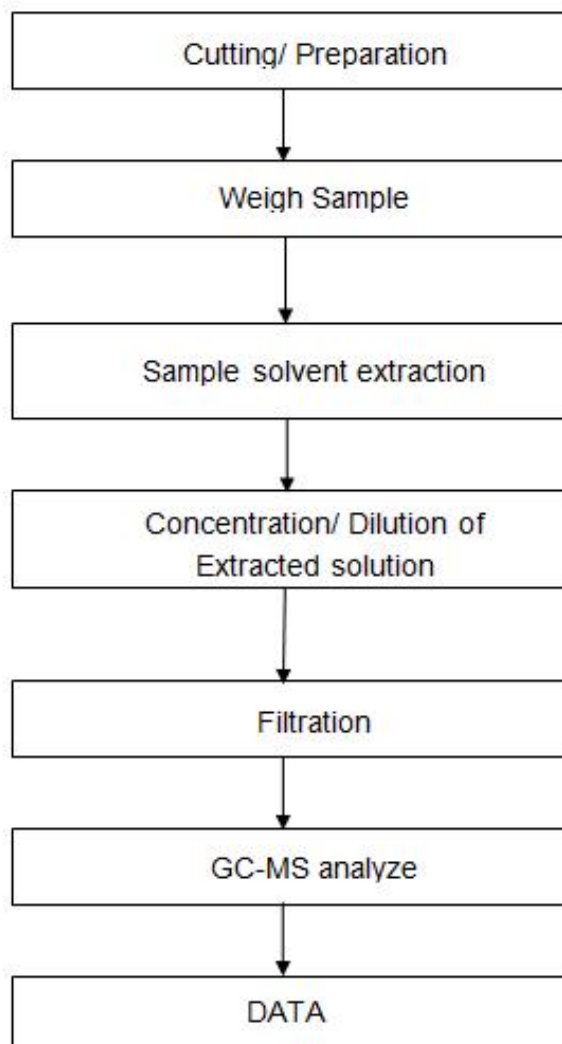
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2. 邻苯二甲酸酯测试流程 Phthalate test flow chart



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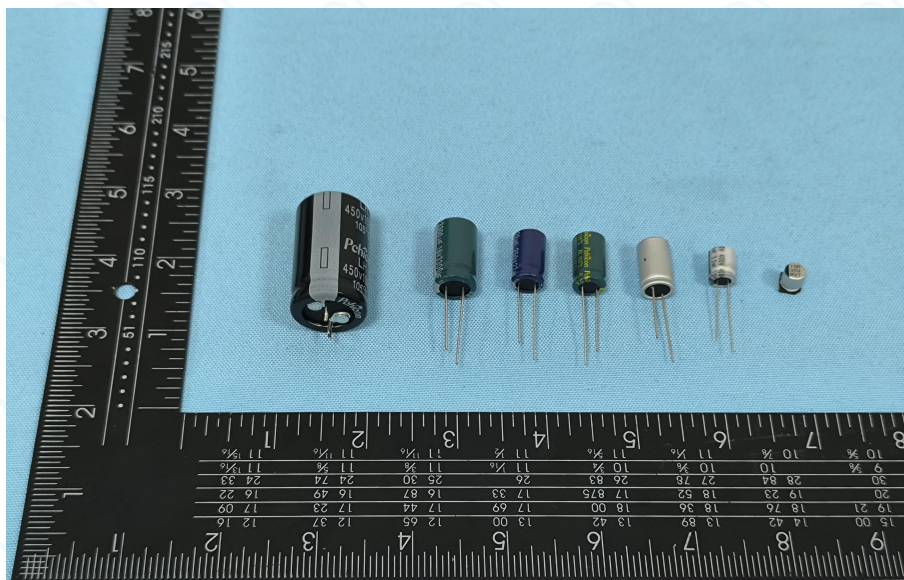
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样品照片 Photo documentation



报告结束

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签发测试报告条款

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9. 该测试报告的支持数据和信息本公司保存 6 年。个别评审机构有特别要求的,检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限,数据和信息将被处理掉。任何情况下,本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害,本公司在任何情况下也不必承担任何损害,包括(但不限于)补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权(包括疏忽)、产品责任或其他原因的惩罚性损害。
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