



Applicant: BEIJING STRONGLINK TECHNOLOGY COMPANY
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地址: 北京朝阳区北苑路 170 号凯旋城 A 座 3-105 室

Sample Name : RFID MODULE
样品名称 : 射频读卡模块

SGS Ref : 1010094
SGS 参考号 : 1010094

Model No.(P.O No.) : SL030
主型号(P.O 号) : SL030

Other Model No. : SL031
副型号 : SL031

Supplier : STRONGLINK
供应商 : STRONGLINK

Verification Period : December 21, 2009 to January 15, 2010
验证日期 : 2009 年 12 月 21 日至 2010 年 01 月 15 日

Verification Requested : With reference to RoHS Directive 2002/95/EC, and its amendment directives
验证要求 : 参照 RoHS 指令 2002/95/EC 及后续修正指令

Verification Method : Please refer to next page
验证方法 : 见后续页

Verification Conclusion : Based on the review of previous reports and verification results of the submitted samples, the results comply with the RoHS Directive 2002/95/EC and its subsequent amendments.

验证结论 : 依据对以前报告的评审和所提供样品的相关验证, 测试结果符合欧盟 RoHS 指令 2002/95/EC 以及后续修正指令的要求。

Note : The test results are related only to the tested items. The report shall not be reproduced except in full without the written approval of the testing laboratory.
备注 : 本报告测试数据仅代表所测试样品的结果, 未经实验室书面授权, 不得部分复制本报告。

Signed for and on behalf of
SGS-CSTC Chemical Laboratory

Lucid Qi
Lab Manager

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- Verification Method : 1. Review was performed for the samples disjointed from the submitted articles and the related test reports submitted by the Applicant
2. Tests were performed for the samples indicated by the photos in the report with test methods reference to IEC 62321 Ed.1: 2008: Procedures for the Determination of Levels of Six Regulated Substances in Electrotechnical Products
(1) Screening by XRF Spectroscopy
(2) Wet Chemical Test Method
a. Determination of Lead & Cadmium by ICP and AAS
b. Determination of Mercury by ICP
c. Determination of Hexavalent Chromium by Colorimetric Method
d. Determination of PBBs and PBDEs by GC/MS
- 验证方法 : 1. 拆分申请者提供的成品，并评估样品和相关检测报告
2. 参照 IEC 62321 Ed.1: 2008: 电子电器产品中六种限用物质含量的测定程序。仅对本报告照片中标识的样品进行了下列测试分析
(1) 用 X 射线荧光分析仪器进行筛选
(2) 湿法化学测试方法
a. 用 ICP/AAS 方法确定铅和镉的含量
b. 用 ICP 确定汞的含量
c. 用比色法确定六价铬的含量
d. 用 GC/MS 测定 PBBs(多溴联苯)和 PBDEs(多溴二苯醚) 的含量

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Details on Verification/验证报告内容

Part No. 样品编号	Part Name 样品名称	Restricted Substances 限用物质	No. of Related Test Report 相关报告号码	Results in Related Test Report 相关测试报告结果	Results of EDXRF ⁽¹⁾ EDXRF 测试结果 ⁽¹⁾	Result of Wet Chemical Testing ⁽²⁾ 化学测试结果 ⁽²⁾	Conclusion on RoHS RoHS 结论	Sample Submitted / Resubmitted Date 样品提交/再次提交日期
1	射频读卡模块 PCB 上 U1 位置的黑色 IC 芯片 Black IC(U1)(pcb)(RFID module)	Cd	\	\	BL	---	Comply/符合	December 21, 2009
		Pb		\	BL	---	Comply/符合	
		Hg		\	BL	---	Comply/符合	
		Cr ⁶⁺		\	BL	---	Comply/符合	
		PBBs		\	IN	ND	Comply/符合	
		PBDEs		\		ND	Comply/符合	
2	射频读卡模块 PCB 上 U2 位置的黑色 IC 芯片 Black IC(U2)(pcb)(RFID module)	Cd	\	\	BL	---	Comply/符合	December 21, 2009
		Pb		\	BL	---	Comply/符合	
		Hg		\	BL	---	Comply/符合	
		Cr ⁶⁺		\	BL	---	Comply/符合	
		PBBs		\	BL	---	Comply/符合	
		PBDEs		\		---	Comply/符合	
3	射频读卡模块 PCB 上 C2 位置的棕色贴片电容 Brown smd capacitor(C2)(pcb)(RFID module)	Cd	\	\	BL	---	Comply/符合	December 21, 2009
		Pb		\	BL	---	Comply/符合	
		Hg		\	BL	---	Comply/符合	
		Cr ⁶⁺		\	BL	---	Comply/符合	
		PBBs		\	BL	---	Comply/符合	
		PBDEs		\		---	Comply/符合	
4	射频读卡模块 PCB 上 X1 位置的银色晶体 Silvery crystal(X1)(pcb)(RFID module)	Cd	\	\	BL	---	Comply/符合	December 21, 2009/ January 8, 2010
		Pb		\	BL	---	Comply/符合	
		Hg		\	BL	---	Comply/符合	
		Cr ⁶⁺		\	IN	ND	Comply/符合	
		PBBs		\	BL	---	Comply/符合	
		PBDEs		\		---	Comply/符合	
5	射频读卡模块 PCB 上 R3 位置的黑色贴片电阻 Black resistance(R3)(pcb)(RFID module)	Cd	\	\	BL	---	Comply/符合	December 21, 2009/ January 8, 2010
		Pb		\	IN	▲	Comply/符合	
		Hg		\	BL	---	Comply/符合	
		Cr ⁶⁺		\	IN	ND	Comply/符合	
		PBBs		\	BL	---	Comply/符合	
		PBDEs		\		---	Comply/符合	
6	射频读卡模块 PCB 上 L1 位置的黑色贴片电感 Black smd inductance(L1)(pcb)(RFID module)	Cd	\	\	BL	---	Comply/符合	December 21, 2009
		Pb		\	BL	---	Comply/符合	
		Hg		\	BL	---	Comply/符合	
		Cr ⁶⁺		\	BL	---	Comply/符合	
		PBBs		\	BL	---	Comply/符合	
		PBDEs		\		---	Comply/符合	
7	射频读卡模块 PCB 上 LL1 位置的白色指示灯 White LED(LL1)(pcb)(RFID module)	Cd	\	\	BL	---	Comply/符合	December 21, 2009
		Pb		\	BL	---	Comply/符合	
		Hg		\	BL	---	Comply/符合	
		Cr ⁶⁺		\	BL	---	Comply/符合	
		PBBs		\	BL	---	Comply/符合	
		PBDEs		\		---	Comply/符合	

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TJCM

Part No. 样品编号	Part Name 样品名称	Restricted Substances 限用物质	No. of Related Test Report 相关报告号码	Results in Related Test Report 相关测试报告结果	Results of EDXRF ⁽¹⁾ EDXRF 测试结果 ⁽¹⁾	Result of Wet Chemical Testing ⁽²⁾ 化学测试结果 ⁽²⁾	Conclusion on RoHS RoHS 结论	Sample Submitted / Resubmitted Date 样品提交/再次提交日期
8	射频读卡模块上的绿色 PCB Green PCB(RFID module)	Cd	\	\	BL	---	Comply/符合	December 21, 2009
		Pb		\	BL	---	Comply/符合	
		Hg		\	BL	---	Comply/符合	
		Cr6+		\	BL	---	Comply/符合	
		PBBs		\	IN	ND	Comply/符合	
		PBDEs		\		ND	Comply/符合	
9	射频读卡模块 PCB 上 C13 位置的黄色贴片铝电容 Yellow smd capacitor(C13)(pcb)(RFID module)	Cd	\	\	BL	---	Comply/符合	December 21, 2009
		Pb		\	BL	---	Comply/符合	
		Hg		\	BL	---	Comply/符合	
		Cr ⁶⁺		\	BL	---	Comply/符合	
		PBBs		\	BL	---	Comply/符合	
		PBDEs		\		---	Comply/符合	
10	射频读卡模块上的绿色 PCB Green PCB(RFID module)	Cd	\	\	BL	---	Comply/符合	December 21, 2009
		Pb		\	BL	---	Comply/符合	
		Hg		\	BL	---	Comply/符合	
		Cr ⁶⁺		\	BL	---	Comply/符合	
		PBBs		\	IN	ND	Comply/符合	
		PBDEs		\		ND	Comply/符合	

Remark/备注

- (1) (a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr⁶⁺.
结果显示的是总 Br 含量而限用物质是 PBBs/PBDEs; 结果显示的是总 Cr 含量而限用物质是 Cr⁶⁺.
- (b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for CrVI) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321 Ed.1: 2008 (unit: mg/kg)
EDXRF 所得的测试结果只作初步筛选, 如果 XRF 结果超出 IEC 62321 Ed.1: 2008 所规定的警戒范围, 我们建议客户用更精确的化学测试方法测试样品, 如用 ICP 测试 Cd, Pb, Hg; 用 UV-VIS 测试 Cr⁶⁺; 用 GC/MS 测试 PBBs 和 PBDEs. (单位: mg/kg)

Element/ 元素	Polymer/聚合物	Metal/金属	Composite Materials/ 复合材料
Cd	BL ≤ (70-3σ) < X < (130+3σ) ≤ OL	BL ≤ (70-3σ) < X < (130+3σ) ≤ OL	LOD < X < (150+3σ) ≤ OL
Pb	BL ≤ (700-3σ) < X < (1300+3σ) ≤ OL	BL ≤ (700-3σ) < X < (1300+3σ) ≤ OL	BL ≤ (500-3σ) < X < (1500+3σ) ≤ OL
Hg	BL ≤ (700-3σ) < X < (1300+3σ) ≤ OL	BL ≤ (700-3σ) < X < (1300+3σ) ≤ OL	BL ≤ (500-3σ) < X < (1500+3σ) ≤ OL
Br	BL ≤ (300-3σ) < X	---	BL ≤ (250-3σ) < X
Cr	BL ≤ (700-3σ) < X	BL ≤ (700-3σ) < X	BL ≤ (500-3σ) < X

- (c) BL = Below Limit/低于限度, OL = Over Limit/超出限度, IN = Inconclusive/不确定,
LOD = Limit of Detection/检测极限值

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(d) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition
 对于复合材料，XRF 筛选测试 RoHS 元素所得数据可能与样品中实际含量不同。

(2) (a) mg/kg = ppm = 0.0001%, ND = not detected (<MDL) /未检出 (低于方法检测极限值),
 --- = not conducted/未检测。

(b) Unit and Method Detection Limit (MDL) in wet chemical test/化学测试单位和方法检测极限值

Test Items/测试项目	Pb	Cd	Hg
Units/单位	mg/kg	mg/kg	mg/kg
MDL/方法检测极限值	2	2	2

The MDL for single compound of PBBs & PBDEs is 5 mg/kg and MDL of Cr⁶⁺ for polymer & composite sample is 2 mg/kg.

任何一种 PBBs(多溴联苯)和 PBDEs(多溴二苯醚)化合物的方法检测极限值是 5 mg/kg; 聚合物和复合材料样品中 Cr⁶⁺的方法检测极限值是 2 mg/kg。

(c) According to IEC 62321 Ed.1: 2008, result on Cr⁶⁺ for metal sample is shown as Positive/Negative.
 Positive = Presence of Cr⁶⁺ coating, Negative = Absence of Cr⁶⁺ coating.

按照 IEC 62321 Ed.1: 2008, 金属样品中 Cr⁶⁺的结果表示为阳性/阴性。阳性=含有 Cr⁶⁺涂层, 阴性=没有 Cr⁶⁺涂层。

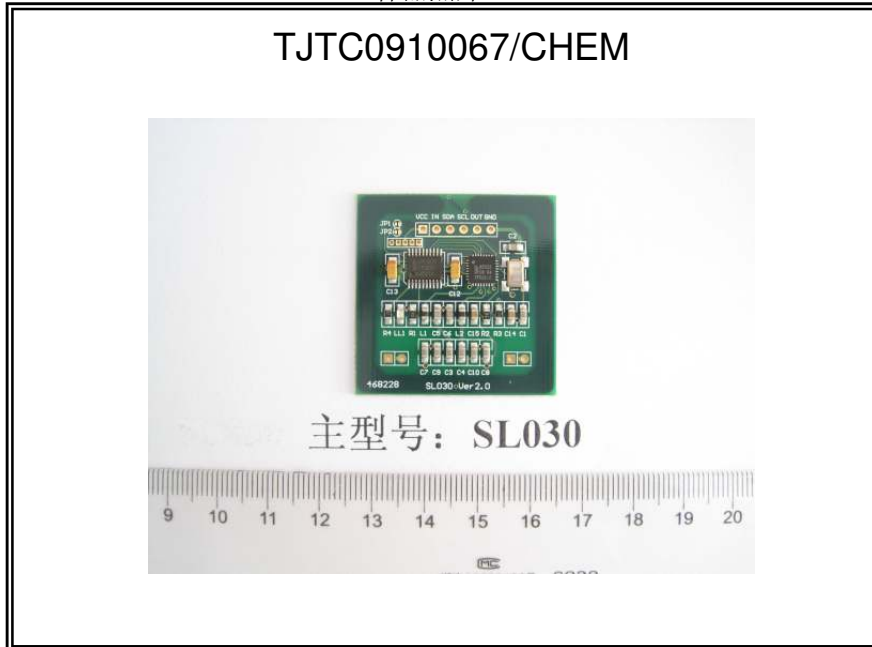
(d) 多溴二苯醚=多溴联苯醚

(e) ▲ As declared by the client, the material falls into exemption items according to EU directive 2002/95/EC(RoHS) and its subsequent amendments.

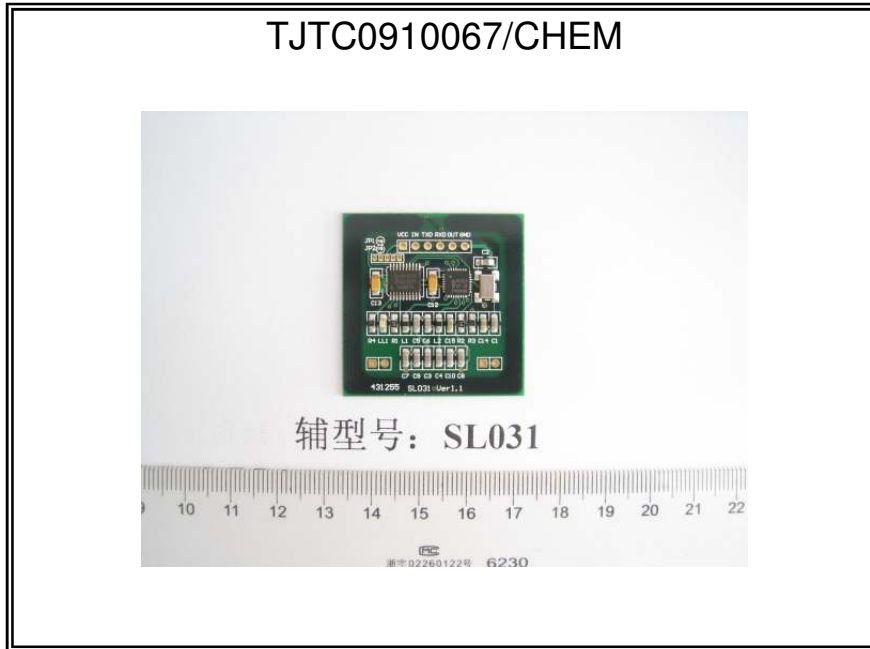
根据客户的声明, 该材料属于欧盟 2002/95/EC (RoHS)指令以及后续修正指令的豁免项目。

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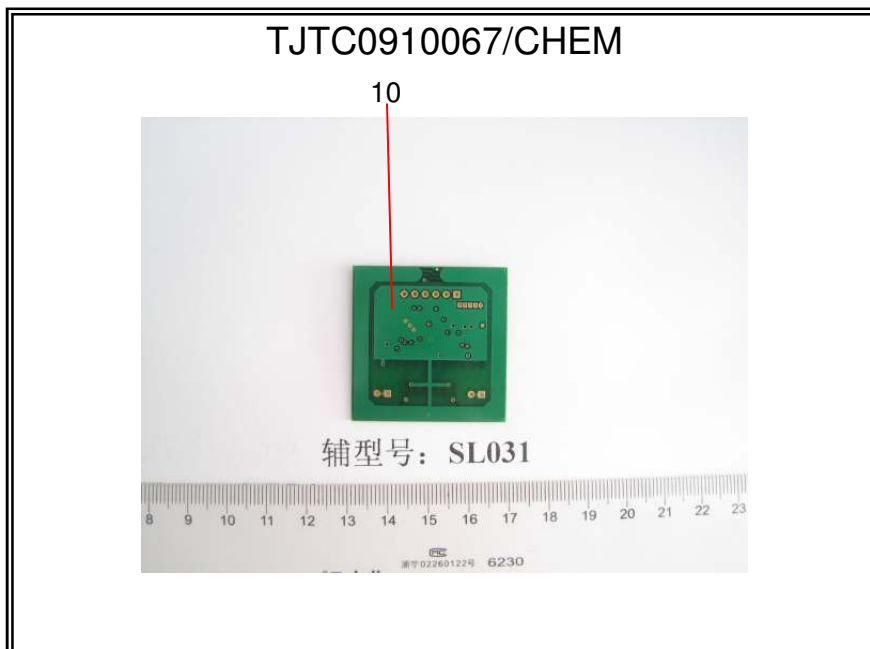
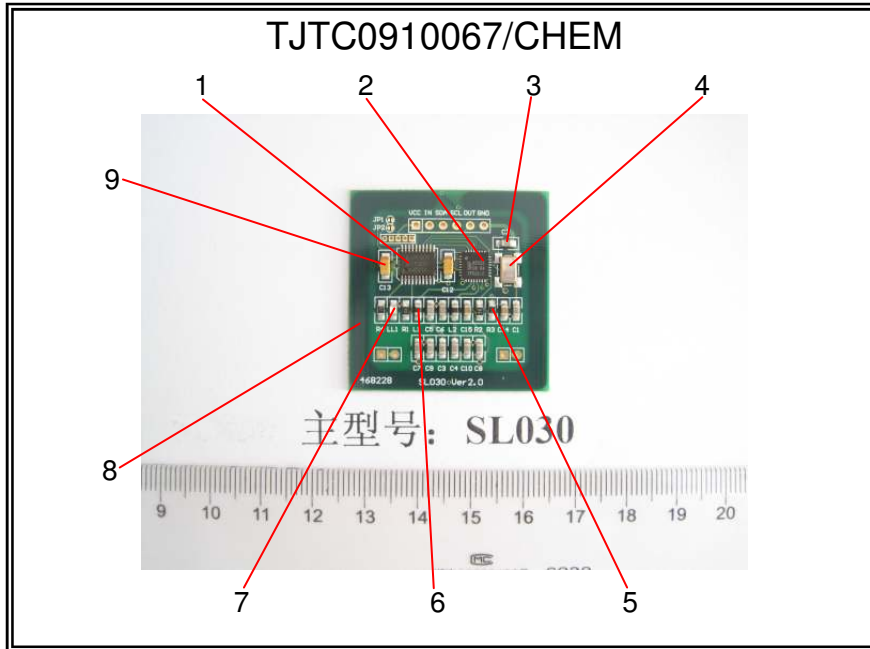
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