



TEST REPORT

Lab No. : (6206)0480066(A-1)
Date : March 06, 2006
(Amend on March 06, 2006)
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Applicant : ONETOUCH TECHNOLOGIES CO., LTD
申請人 : 益震科技股份有限公司

Contact Person : Joseph Tseng
聯絡人

Date of Submission : February 17, 2006
呈送日期 : 2006年02月17日

Performance Date : February 17, 2006 to February 22, 2006
測試日期 : 2006年02月17日至2006年02月22日

Sample Description

Product Name : Control Card
產品名稱

Item No. : 32-4WUSB-A70-0, 32-5WUSB-A70-0
產品型號

Buyer's Order No : 32-4WUSB-7, 32-5WUSB-7
買家型號

Sample Quantity : 10
送樣件數

Manufacture's Name : ONETOUCH TECHNOLOGIES CO., LTD
工廠名稱 : 益震科技股份有限公司

Country of origin : Taiwan
原產國 : 台灣

Goods Exported : Globe
銷往國家 : 全球

SUMMARY OF TEST RESULTS

TEST REQUESTED	REMARK
Determinations of Heavy metal content – Pb, Cd, Hg, Cr(VI)	See results in page 3 to 4
Determinations of PBB & PBDE	See results in page 3 to 4

BUREAU VERITAS CONSUMER PRODUCTS
SERVICES (H.K.) LIMITED, TAIWAN BRANCH

PREPARED BY : Paul Huang


CHRISTINE CHONG
ANALYTICAL MANAGER
CHEMICAL DIVISION

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Test Result(s):

測試結果：

- 測試件： 1. Mix green PCB with white printing and all small electronic component / 綠色電路板與白色印刷和全部細小電子零件混合測試
- Item(s) 2. Mix all parts of IC (Black epoxy body with silver pin) / IC 全部零件混合測試(黑色本體與金屬針腳)
3. Mix all parts of brown and green ceramic component / 全部棕色和綠色陶瓷零件混合測試
4. Mix all ivory plastic of connector / 象牙色塑膠連接器合測試
5. Mix all silver metal pin of connector / 連接器的銀色金屬針腳混合測試

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Restriction of Hazardous Substances Directive (RoHS), 2002/95/EC

Test Item 測試項目	Unit 單位	MDL 偵測極限	Result 結果		
			1	2	3
Lead [Pb] / 鉛	ppm	2	34.2	N.D.	112452.0*
Cadmium [Cd] / 鎘	ppm	2	N.D.	N.D.	N.D.
Mercury [Hg] / 汞	ppm	2	N.D.	N.D.	N.D.
Chromium (VI) [Cr(VI)] / 六價鉻	ppm	2	N.D.	N.D.	N.D.
Polybrominated Biphenyls[PBB] 聚溴聯苯					
Bromobiphenyls / 一溴聯苯	ppm	5	N.D.	N.D.	N.D.
Dibromobiphenyls/ 二溴聯苯	ppm	5	N.D.	N.D.	N.D.
Tribromobiphenyls/ 三溴聯苯	ppm	5	N.D.	N.D.	N.D.
Tetrabromobiphenyls/ 四溴聯苯	ppm	5	N.D.	N.D.	N.D.
Pentabromobiphenyls/ 五溴聯苯	ppm	5	N.D.	N.D.	N.D.
Hexabromobiphenyls/ 六溴聯苯	ppm	5	N.D.	N.D.	N.D.
Heptabromobiphenyls/ 七溴聯苯	ppm	5	N.D.	N.D.	N.D.
Octabromobiphenyls/ 八溴聯苯	ppm	5	N.D.	N.D.	N.D.
Nonabromobiphenyls/ 九溴聯苯	ppm	5	N.D.	N.D.	N.D.
Decabromobiphenyl/ 十溴聯苯	ppm	5	N.D.	N.D.	N.D.
Sum of PBBs	ppm	—	N.D.	N.D.	N.D.
Polybrominated Diphenyl Ethers[PBDE] 聚溴聯苯醚					
Bromodiphenyl ethers / 一溴聯苯醚	ppm	5	N.D.	N.D.	N.D.
Dibromodiphenyl ethers/ 二溴聯苯醚	ppm	5	N.D.	N.D.	N.D.
Tribromodiphenyl ethers/ 三溴聯苯醚	ppm	5	N.D.	N.D.	N.D.
Tetrabromodiphenyl ethers/ 四溴聯苯醚	ppm	5	N.D.	N.D.	N.D.
Pentabromodiphenyl ethers/ 五溴聯苯醚	ppm	5	N.D.	N.D.	N.D.
Hexabromodiphenyl ethers/ 六溴聯苯醚	ppm	5	N.D.	N.D.	N.D.
Heptabromodiphenyl ethers/ 七溴聯苯醚	ppm	5	N.D.	N.D.	N.D.
Octabromodiphenyl ethers/ 八溴聯苯醚	ppm	5	N.D.	N.D.	N.D.
Nonabromodiphenyl ethers/ 九溴聯苯醚	ppm	5	N.D.	N.D.	N.D.
Decabromodiphenyl ether/ 十溴聯苯醚	ppm	5	N.D.	N.D.	N.D.
Sum of PBDEs	ppm	—	N.D.	N.D.	N.D.

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Test Item 測試項目	Unit 單位	MDL 偵測極限	Result 結果	
			4	5
Lead [Pb] / 鉛	ppm	2	N.D.	57.1
Cadmium [Cd] / 鎘	ppm	2	N.D.	N.D.
Mercury [Hg] / 汞	ppm	2	N.D.	N.D.
Chromium (VI) [Cr(VI)] / 六價鉻	ppm	2	N.D.	N.D.
Polybrominated Biphenyls[PBB] 聚溴聯苯				
Bromobiphenyls / 一溴聯苯	ppm	5	N.D.	N.A.
Dibromobiphenyls/ 二溴聯苯	ppm	5	N.D.	N.A.
Tribromobiphenyls/ 三溴聯苯	ppm	5	N.D.	N.A.
Tetrabromobiphenyls/ 四溴聯苯	ppm	5	N.D.	N.A.
Pentabromobiphenyls/ 五溴聯苯	ppm	5	N.D.	N.A.
Hexabromobiphenyls/ 六溴聯苯	ppm	5	N.D.	N.A.
Heptabromobiphenyls/ 七溴聯苯	ppm	5	N.D.	N.A.
Octabromobiphenyls/ 八溴聯苯	ppm	5	N.D.	N.A.
Nonabromobiphenyls/ 九溴聯苯	ppm	5	N.D.	N.A.
Decabromobiphenyl/ 十溴聯苯	ppm	5	N.D.	N.A.
Sum of PBBs	ppm	—	N.D.	N.A.
Polybrominated Diphenyl Ethers[PBDE] 聚溴聯苯醚				
Bromodiphenyl ethers / 一溴聯苯醚	ppm	5	N.D.	N.A.
Dibromodiphenyl ethers/ 二溴聯苯醚	ppm	5	N.D.	N.A.
Tribromodiphenyl ethers/ 三溴聯苯醚	ppm	5	N.D.	N.A.
Tetrabromodiphenyl ethers/ 四溴聯苯醚	ppm	5	N.D.	N.A.
Pentabromodiphenyl ethers/ 五溴聯苯醚	ppm	5	N.D.	N.A.
Hexabromodiphenyl ethers/ 六溴聯苯醚	ppm	5	N.D.	N.A.
Heptabromodiphenyl ethers/ 七溴聯苯醚	ppm	5	N.D.	N.A.
Octabromodiphenyl ethers/ 八溴聯苯醚	ppm	5	N.D.	N.A.
Nonabromodiphenyl ethers/ 九溴聯苯醚	ppm	5	N.D.	N.A.
Decabromodiphenyl ether/ 十溴聯苯醚	ppm	5	N.D.	N.A.
Sum of PBDEs	ppm	—	N.D.	N.A.

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Test Item	Test Method
Lead [Pb] / 鉛	The sample is comminuted and digested with acid mixtures. Pb content is determined with ICP-AES technique (Reference: Clause 14, page 52 / US EPA 3050B and 3051)
Cadmium [Cd] / 鎘	The sample is comminuted and digested with acid mixtures. Cd content is determined with ICP-AES technique (Reference: Clause 14, page 52 / US EPA 3050B and 3051)
Mercury [Hg] / 汞	The sample is comminuted and digested with acid mixtures. Hg content is determined with ICP-AES technique (Reference: Clause 13, page 44 / US EPA 3050B and 3052)
Chromium (VI) [Cr(VI)] / 六價鉻	A. Metal: Reference to BS EN ISO 3613:2001 with Incorporating Corrigendum No. 1, "Chromate conversion coatings on zinc, cadmium, aluminium-zinc alloys and zinc aluminium alloys-Test methods" B. Plastic & Electronics: The sample is comminuted and digested with alkaline mixtures. Chromium VI content is determined with UV-VIS spectroscopic technique. (Chapter 10 / US EPA 3060A)
Polybrominated Biphenyls[PBB] / 聚溴聯苯	The sample is first scanned by infra red (IR) spectroscopy and appropriate solvent is used for extraction. The content of PBBs are determined by GC-MS (Reference: Clause 9, page 27)
Polybrominated Diphenyl Ethers [PBDE] / 聚溴聯苯醚	The sample is first scanned by infra red (IR) spectroscopy and appropriate solvent is used for extraction. The content of PBDEs are determined by GC-MS (Reference: Clause 9, page 27)

Note: (1) N.D. = Not Detected 未檢測出
註解: (2) ppm = mg/kg 百萬分之一
(3) MDL = Method Detection Limit 方法偵測極限
(4) "—" = Empty 空白
(5) N.A. = Not Applicable 不適用

*According to the directive 2005/717/EC and 2005/747/EC, the annex of 2002/95/EC was amended and Clause 7 is reiterated here "Lead in electronic ceramic parts". The sample as received as claimed by the client to be ceramic material, therefore, this material containing the found lead level should be exempted.

-----The End-----

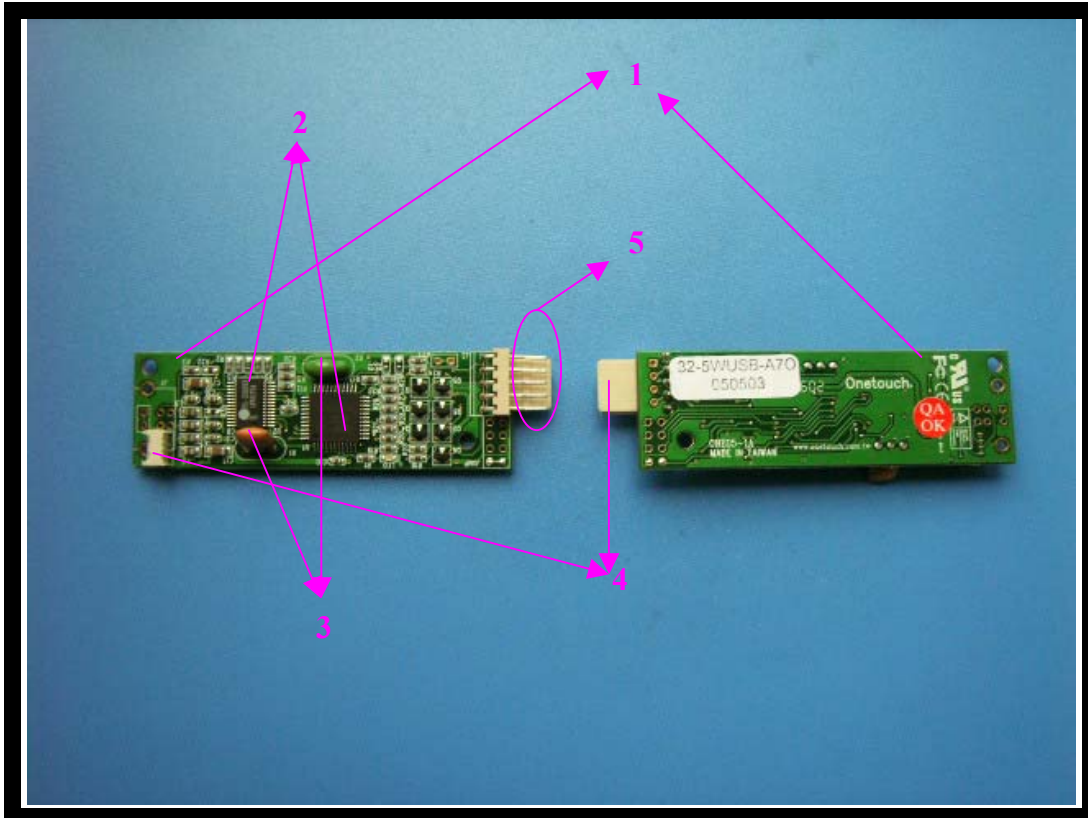
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Attachment:
附件：



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