



ICP Test Report Certification Packet

Company name: Littelfuse, Inc.
Product Series: P4KE, P6KE, SA, SAC, 3T Series
Product #: TVS Diode
Issue Date: August 18, 2008

It is hereby certified by Littelfuse, Inc. that there is neither RoHS (EU Directive 2002/95/EC)-restricted substance nor such use, for materials to be used for unit parts, for packing/packaging materials, and for additives and the like in the manufacturing processes. In addition, it is hereby reported to you that the parts and sub-materials, the materials to be used for unit parts, the packing/packaging materials, and the additives and the like in the manufacturing processes, are all composed of the following components.

Issued by: 

<Global Environmental, Health & Safety Manager>

(1) Parts, sub-materials and unit parts

This document covers the P4KE, P6KE, SA, SAC, 3T RoHS-Compliant series products manufactured by Littelfuse, Inc.

< Raw Materials Used

Please see Table 1

(2) The ICP data on all measurable substances

Please see appropriate pages as identified in Table 1

Remarks : **RoHS Exemptions 5 and 7a apply to these products.**



Table 1: List of Raw Materials covered by this report

Total Parts	Raw Material Part Number	Raw Material Description	Page(s)
1	NA	Dice	3-7
2	NA	Lead Wire	8-12
3	NA	Solder Wafer	13-17
4	NA	Copper Spacer	18-22
5	NA	Epoxy	23-27
6	NA	Tin Plating	28-32
7	NA	UV Ink	33-37



TEST REPORT

NUMBER: WUX0609627

APPLICANT: CONCORD SEMICONDUCTOR(WUXI) CO., LTD. DATE: AUG 12,2008
EAST 1#, ZHENFA 6 ROAD, SHUOFANG
INDUSTRIAL PARK WUXI NATIONAL HIGH-TECH
DEVELOPMENT ZONE, WUXI, JIANGSU
ATTN: ZHANG XIAOPENG

SAMPLE DESCRIPTION:

ONE (1) SUBMITTED SAMPLE SAID TO BE:
ITEM NAME: DICE.
ELEMENT: NA.
VENDOR: YANGMEI.

TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

TO BE CONTINUED

AUTHORIZED BY:
FOR INTERTEK TESTING SERVICES
WUXI LTD.

JESSICA LU
GENERAL MANAGER

Intertek Testing Services Wuxi Ltd.

No.8 Fubei Road, Xishan Economic Development Zone,
Wuxi 214101, Jiangsu, China

無錫天祥質量技術服務有限公司

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Tel: +86 510 8821 4567 Fax: +86 510 8820 0428 E-mail: consumergoods.wuxi@intertek.com

Attention is drawn to the terms and conditions printed overleaf.



TEST REPORT

NUMBER: WUX0609627

(A) TEST RESULT SUMMARY:

TESTING ITEM	RESULT
CADMIUM (Cd) CONTENT (mg/kg)	ND
LEAD (Pb) CONTENT (mg/kg)	13065
MERCURY (Hg) CONTENT (mg/kg)	ND
CHROMIUM (VI) (Cr ⁶⁺) RESULT (BY BOILING WATER EXTRACTION ON METAL) (mg/kg WITH 50cm ²)#	ND

REMARK:

mg/kg = MILLIGRAM PER KILOGRAM BASED ON DRY WEIGHT OF SAMPLE = ppm
 mg/kg WITH 50cm² = MILLIGRAM PER KILOGRAM WITH 50 SQUARE CENTIMETER
 ND = NOT DETECTED

(B) RoHS REQUIREMENT:

RESTRICTED SUBSTANCES	LIMITS
CADMIUM (Cd)	0.01% (100 ppm)
LEAD (Pb)	0.1% (1000 ppm)
MERCURY (Hg)	0.1% (1000 ppm)
CHROMIUM (VI) (Cr ⁶⁺)	0.1% (1000 ppm)

THE ABOVE LIMITS WERE QUOTED FROM 2002/95/EC AND AMENDMENT
 2005/618/EC FOR HOMOGENEOUS MATERIAL.

TO BE CONTINUED

Intertek Testing Services Wuxi Ltd.

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TEST REPORT

NUMBER: WUX0609627

(C) TEST METHOD:

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
CADMIUM (Cd) CONTENT	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
LEAD (Pb) CONTENT	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
MERCURY (Hg) CONTENT	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (FOR METAL)	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY BOILING WATER EXTRACTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER	0.02mg/kg with 50cm ² (IN TESTING SOLUTION)

NOTE: TESTS WERE CONDUCTED WITH REFERENCE TO 111/95/CDV VERSION 2007-10-12 WHICH IS STILL A DRAFT METHOD AND SUBJECT TO FUTURE CHANGES PRIOR TO PUBLICATION.

DATE SAMPLE RECEIVED: AUG 6, 2008

TESTING PERIOD: AUG 6, 2008 TO AUG 12, 2008

TO BE CONTINUED

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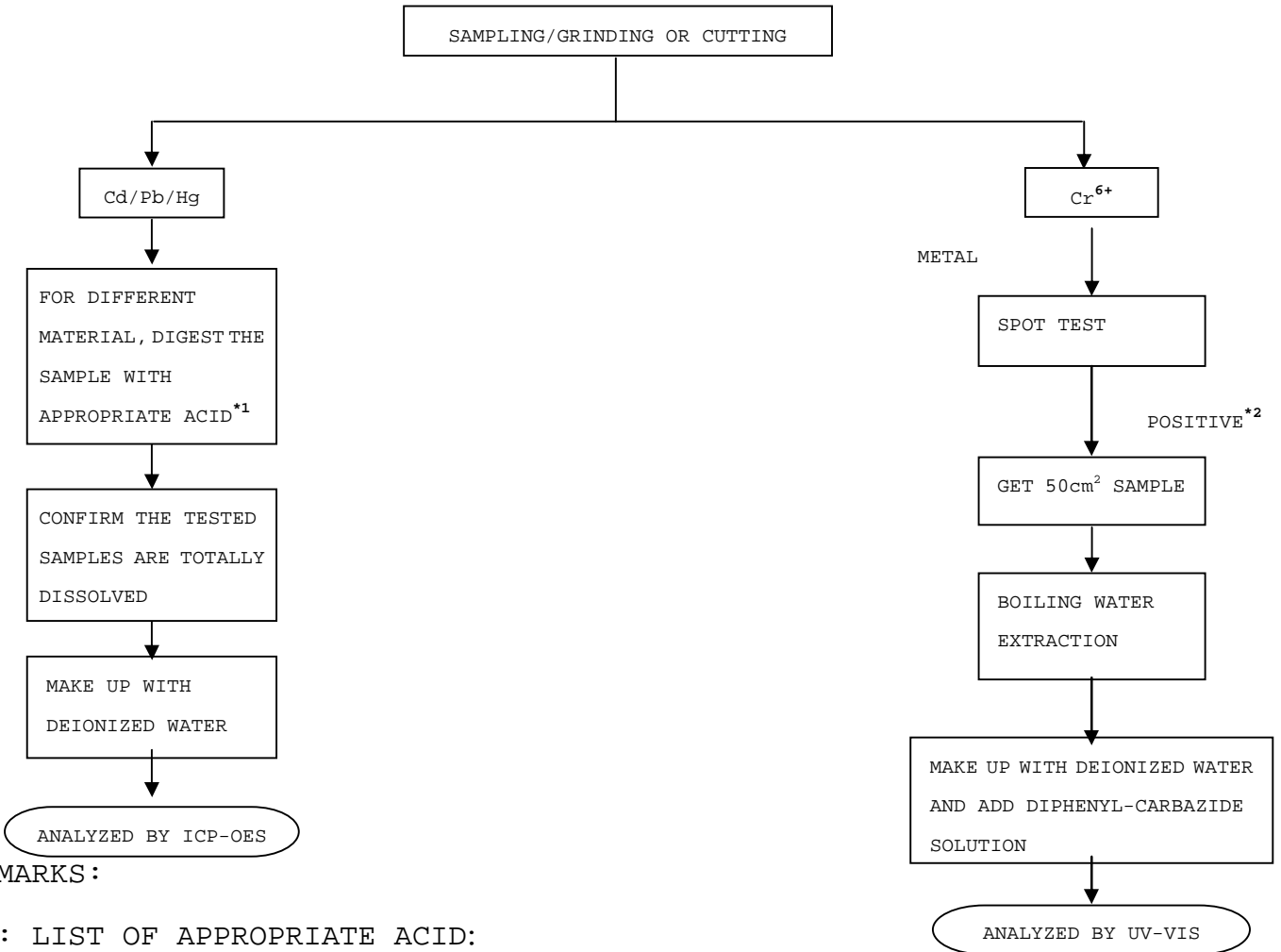
TEST REPORT

NUMBER: WUX0609627

MEASUREMENT FLOWCHART:

TEST FOR Cd/Pb/Hg/CHROMIUM (VI) CONTENTS

REFERENCE STANDARD: IEC 62321 (111/95/CDV)



REMARKS:

*1: LIST OF APPROPRIATE ACID:

MATERIAL	1 ACID ADDED FOR DIGESTION
POLYMERS	HNO ₃ , HCl, HF, H ₂ O ₂ , H ₃ BO ₃
METALS	HNO ₃ , HCl, HF
ELECTRONICS	HNO ₃ , HCl, H ₂ O ₂ , HBF ₄

*2: IF THE RESULT OF SPOT TEST IS POSITIVE, CHROMIUM VI WOULD BE DETERMINED AS DETECTED.

TO BE CONTINUED

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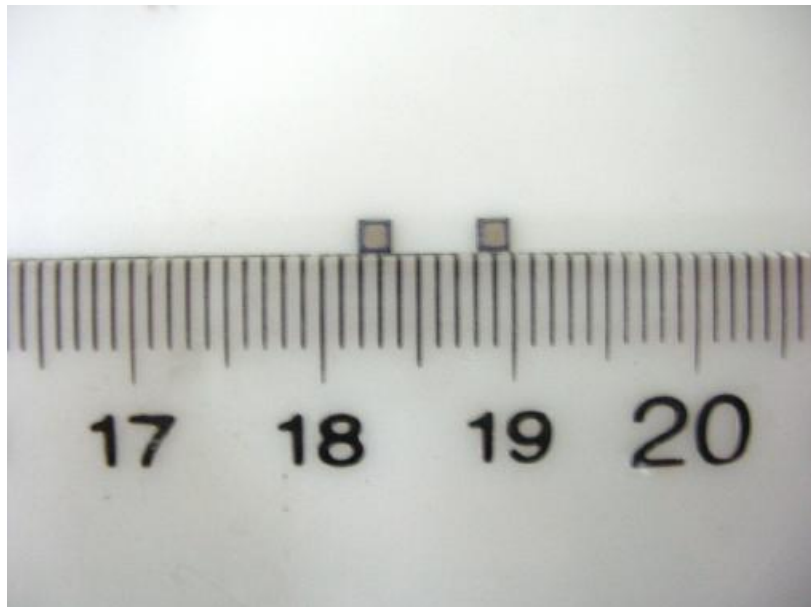
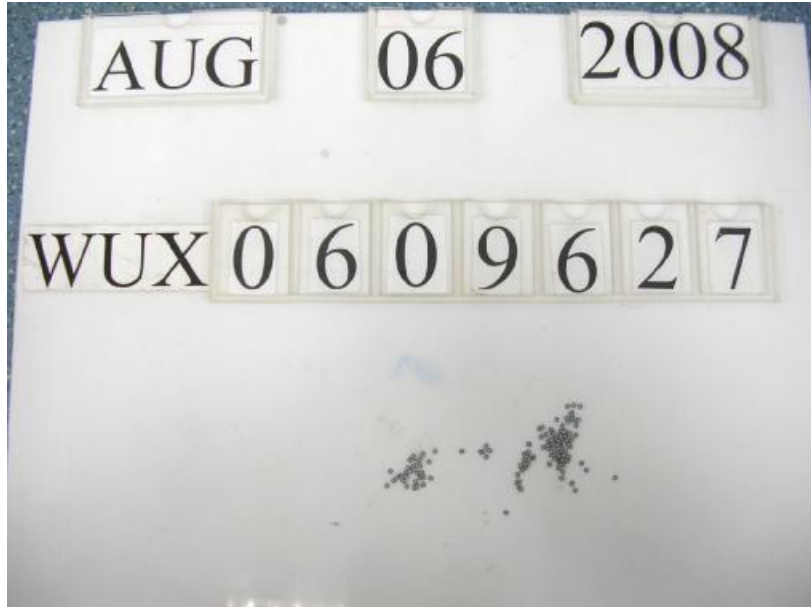
無錫天祥質量技術服務有限公司

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PHOTO



END OF REPORT

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NUMBER: WUX0609639

APPLICANT: CONCORD SEMICONDUCTOR(WUXI) CO., LTD. DATE: AUG 11,2008
EAST 1#, ZHENFA 6 ROAD, SHUOFANG
INDUSTRIAL PARK WUXI NATIONAL HIGH-TECH
DEVELOPMENT ZONE, WUXI, JIANGSU
ATTN: ZHANG XIAOPENG

SAMPLE DESCRIPTION:

ONE (1) SUBMITTED SAMPLE SAID TO BE **COPPER METAL.**
ITEM NAME: LEAD WIRE.
ELEMENT: ALLOY COPPER.
VENDOR: SHANGHAI BONTECH ENTERPRISE.

TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

SUMMARY:

<u>TESTED SAMPLES</u>	<u>STANDARD</u>	<u>RESULT</u>
SUBMITTED SAMPLES	WITH REFERENCE TO TEST METHOD OF IEC 62321 - 111/95/CDV AND MAXIMUM CONCENTRATION LIMITS QUOTED FROM ROHS DIRECTIVES 2002/95/EC AND AMENDMENT 2005/618/EC	PASS

TO BE CONTINUED

AUTHORIZED BY:
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TEST REPORT

NUMBER: WUX0609639

(A) TEST RESULT SUMMARY:

TESTING ITEM	RESULT
CADMIUM (Cd) CONTENT (mg/kg)	ND
LEAD (Pb) CONTENT (mg/kg)	15
MERCURY (Hg) CONTENT (mg/kg)	ND
CHROMIUM (VI) (Cr ⁶⁺) RESULT (BY BOILING WATER EXTRACTION ON METAL) (mg/kg WITH 50cm ²)#	ND

REMARK:

mg/kg = MILLIGRAM PER KILOGRAM BASED ON DRY WEIGHT OF SAMPLE = ppm
 mg/kg WITH 50cm² = MILLIGRAM PER KILOGRAM WITH 50 SQUARE CENTIMETER
 ND = NOT DETECTED

(B) RoHS REQUIREMENT:

RESTRICTED SUBSTANCES	LIMITS
CADMIUM (Cd)	0.01% (100 ppm)
LEAD (Pb)	0.1% (1000 ppm)
MERCURY (Hg)	0.1% (1000 ppm)
CHROMIUM (VI) (Cr ⁶⁺)	0.1% (1000 ppm)

THE ABOVE LIMITS WERE QUOTED FROM 2002/95/EC AND AMENDMENT
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TO BE CONTINUED

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TEST REPORT

NUMBER: WUX0609639

(C) TEST METHOD:

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
CADMIUM (Cd) CONTENT	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
LEAD (Pb) CONTENT	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
MERCURY (Hg) CONTENT	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (FOR METAL)	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY BOILING WATER EXTRACTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER	0.02mg/kg with 50cm ² (IN TESTING SOLUTION)

NOTE: TESTS WERE CONDUCTED WITH REFERENCE TO 111/95/CDV VERSION 2007-10-12 WHICH IS STILL A DRAFT METHOD AND SUBJECT TO FUTURE CHANGES PRIOR TO PUBLICATION.

DATE SAMPLE RECEIVED: AUG 6, 2008

TESTING PERIOD: AUG 6, 2008 TO AUG 11, 2008

TO BE CONTINUED

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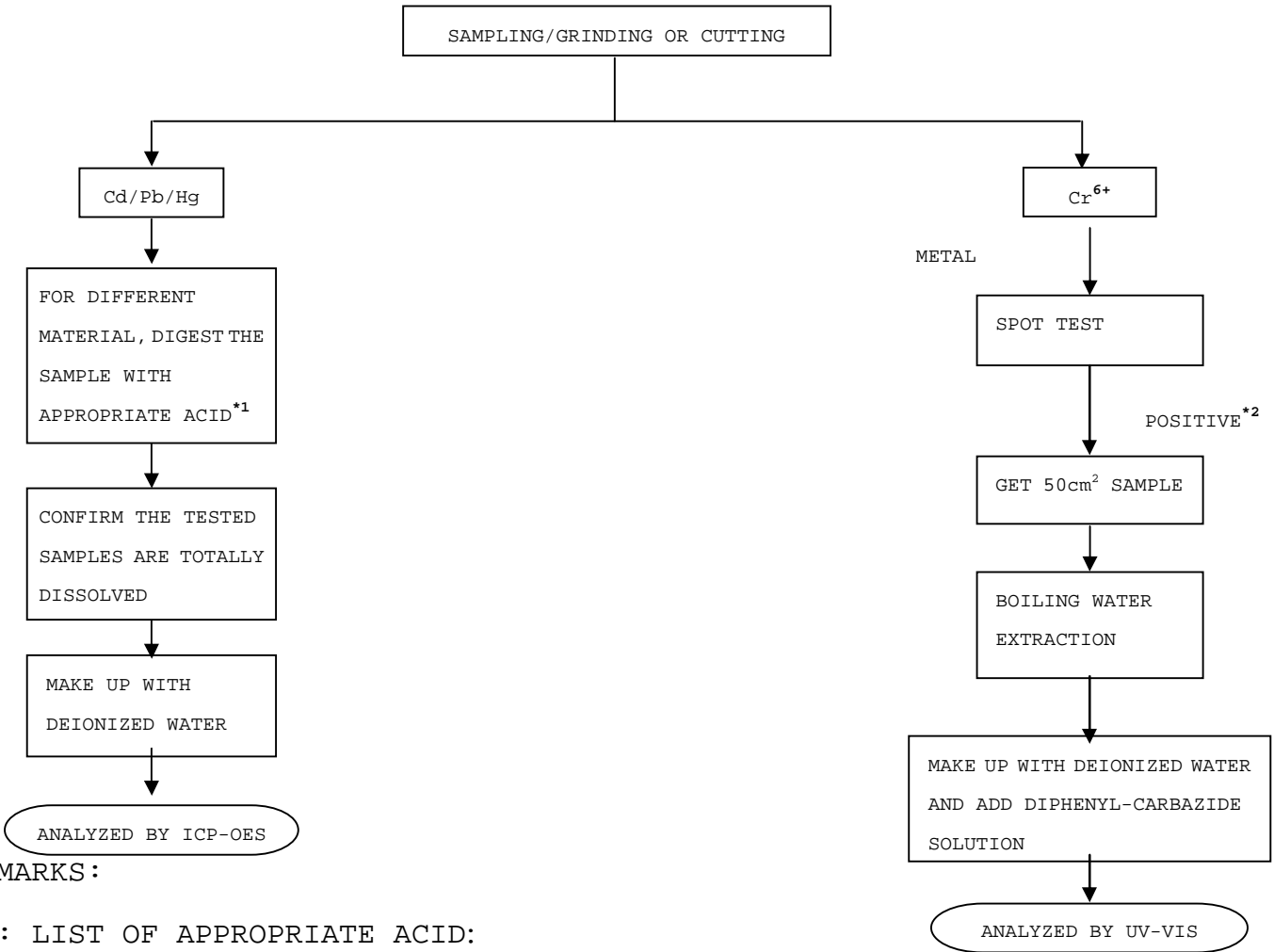
TEST REPORT

NUMBER: WUX0609639

MEASUREMENT FLOWCHART:

TEST FOR Cd/Pb/Hg/CHROMIUM (VI) CONTENTS

REFERENCE STANDARD: IEC 62321 (111/95/CDV)



REMARKS:

*1: LIST OF APPROPRIATE ACID:

MATERIAL	1 ACID ADDED FOR DIGESTION
POLYMERS	HNO ₃ , HCl, HF, H ₂ O ₂ , H ₃ BO ₃
METALS	HNO ₃ , HCl, HF
ELECTRONICS	HNO ₃ , HCl, H ₂ O ₂ , HBF ₄

*2: IF THE RESULT OF SPOT TEST IS POSITIVE, CHROMIUM VI WOULD BE DETERMINED AS DETECTED.

TO BE CONTINUED

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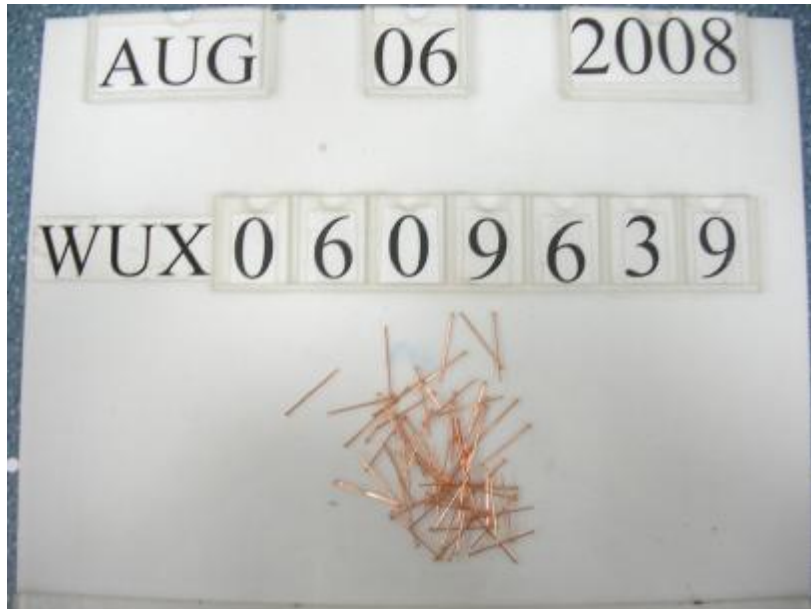
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TEST REPORT

NUMBER: WUX0609639

PHOTO



END OF REPORT

Intertek Testing Services Wuxi Ltd.

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TEST REPORT

NUMBER: WUX0609631

APPLICANT: CONCORD SEMICONDUCTOR(WUXI) CO., LTD. DATE: AUG 12,2008
EAST 1#, ZHENFA 6 ROAD, SHUOFANG
INDUSTRIAL PARK WUXI NATIONAL HIGH-TECH
DEVELOPMENT ZONE, WUXI, JIANGSU
ATTN: ZHANG XIAOPENG

SAMPLE DESCRIPTION:

ONE (1) SUBMITTED SAMPLE SAID TO BE **SILVERY METAL**.
ITEM NAME: SOLDER WAFER.
ELEMENT: Pb:Sn:Ag=92.5:5:2.5.
VENDOR: JIN ZHOU RONGHENG ELECTRONICS CO.

TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

TO BE CONTINUED

AUTHORIZED BY:
FOR INTERTEK TESTING SERVICES
WUXI LTD.

JESSICA LU
GENERAL MANAGER

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TEST REPORT

NUMBER: WUX0609631

(A) TEST RESULT SUMMARY:

TESTING ITEM	RESULT
CADMIUM (Cd) CONTENT (mg/kg)	ND
LEAD (Pb) CONTENT (mg/kg)	834300
MERCURY (Hg) CONTENT (mg/kg)	ND
CHROMIUM (VI) (Cr ⁶⁺) RESULT (BY BOILING WATER EXTRACTION ON METAL) (mg/kg WITH 50cm ²)#	ND

REMARK:

mg/kg = MILLIGRAM PER KILOGRAM BASED ON DRY WEIGHT OF SAMPLE = ppm
 mg/kg WITH 50cm² = MILLIGRAM PER KILOGRAM WITH 50 SQUARE CENTIMETER
 ND = NOT DETECTED
 # = THE RESULT IS FOR REFERENCE ONLY.

(B) ROHS REQUIREMENT:

RESTRICTED SUBSTANCES	LIMITS
CADMIUM (Cd)	0.01% (100 ppm)
LEAD (Pb)	0.1% (1000 ppm)
MERCURY (Hg)	0.1% (1000 ppm)
CHROMIUM (VI) (Cr ⁶⁺)	0.1% (1000 ppm)

THE ABOVE LIMITS WERE QUOTED FROM 2002/95/EC AND AMENDMENT
 2005/618/EC FOR HOMOGENEOUS MATERIAL.

TO BE CONTINUED

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TEST REPORT

NUMBER: WUX0609631

(C) TEST METHOD:

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
CADMIUM (Cd) CONTENT	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
LEAD (Pb) CONTENT	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
MERCURY (Hg) CONTENT	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (FOR METAL)	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY BOILING WATER EXTRACTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER	0.02mg/kg with 50cm ² (IN TESTING SOLUTION)

NOTE: TESTS WERE CONDUCTED WITH REFERENCE TO 111/95/CDV VERSION 2007-10-12 WHICH IS STILL A DRAFT METHOD AND SUBJECT TO FUTURE CHANGES PRIOR TO PUBLICATION.

DATE SAMPLE RECEIVED: AUG 6, 2008

TESTING PERIOD: AUG 6, 2008 TO AUG 12, 2008

TO BE CONTINUED

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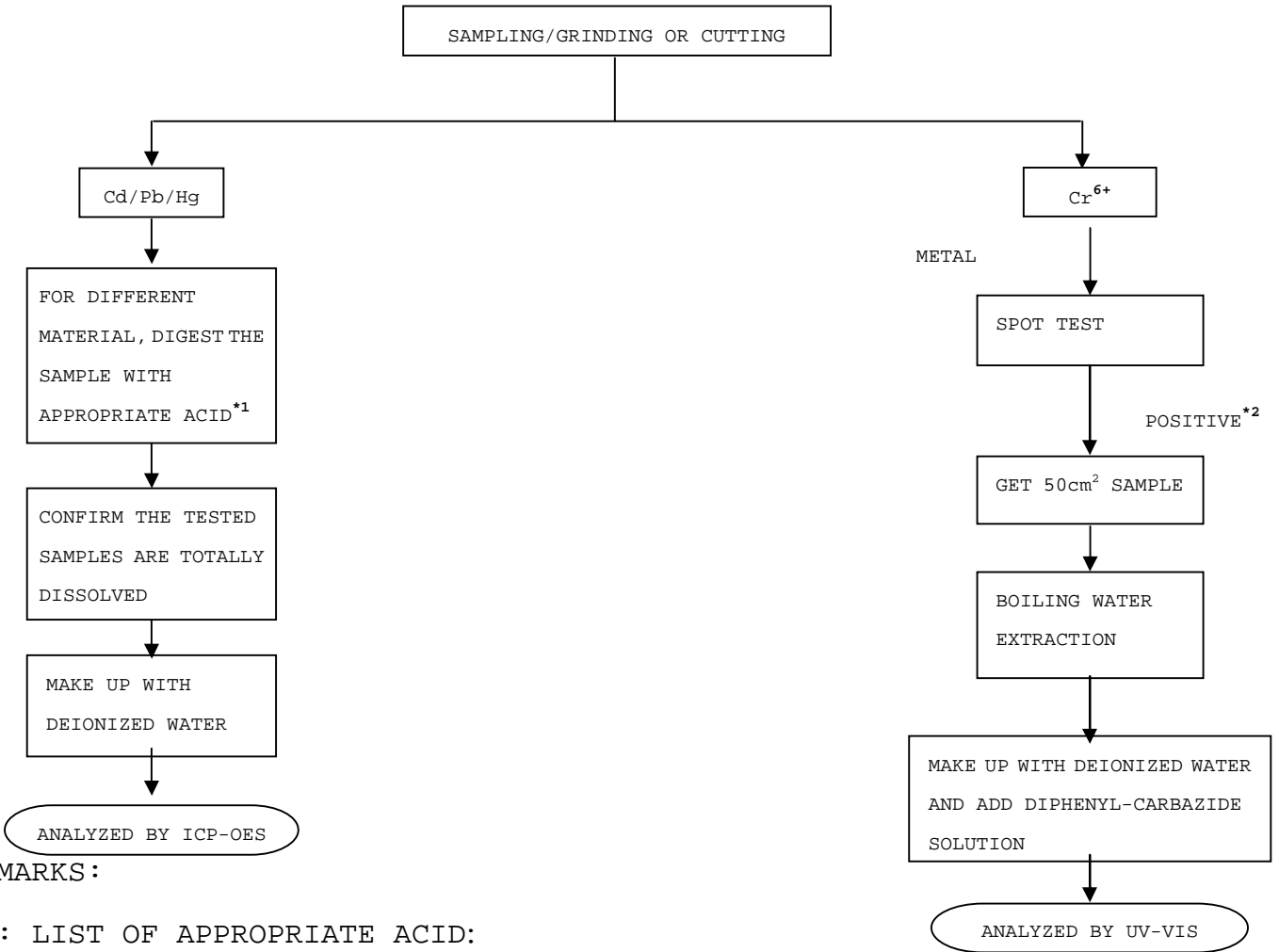
TEST REPORT

NUMBER: WUX0609631

MEASUREMENT FLOWCHART:

TEST FOR Cd/Pb/Hg/CHROMIUM (VI) CONTENTS

REFERENCE STANDARD: IEC 62321 (111/95/CDV)



REMARKS:

*1: LIST OF APPROPRIATE ACID:

MATERIAL	1 ACID ADDED FOR DIGESTION
POLYMERS	HNO ₃ , HCl, HF, H ₂ O ₂ , H ₃ BO ₃
METALS	HNO ₃ , HCl, HF
ELECTRONICS	HNO ₃ , HCl, H ₂ O ₂ , HBF ₄

*2: IF THE RESULT OF SPOT TEST IS POSITIVE, CHROMIUM VI WOULD BE DETERMINED AS DETECTED.

TO BE CONTINUED

Intertek Testing Services Wuxi Ltd.

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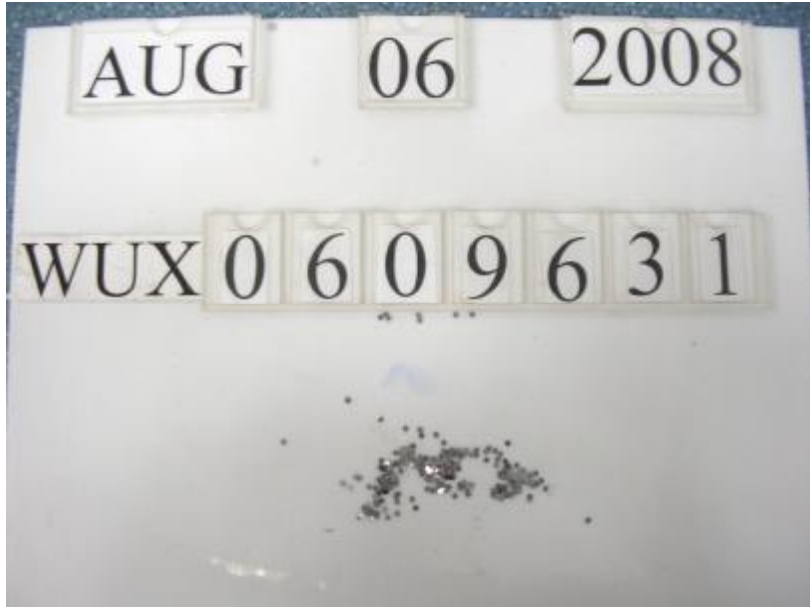
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TEST REPORT

NUMBER: WUX0609631

PHOTO



END OF REPORT

Intertek Testing Services Wuxi Ltd.

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TEST REPORT

NUMBER: WUX0609636

APPLICANT: CONCORD SEMICONDUCTOR(WUXI) CO., LTD. DATE: AUG 11,2008
EAST 1#, ZHENFA 6 ROAD, SHUOFANG
INDUSTRIAL PARK WUXI NATIONAL HIGH-TECH
DEVELOPMENT ZONE, WUXI, JIANGSU
ATTN: ZHANG XIAOPENG

SAMPLE DESCRIPTION:

ONE (1) SUBMITTED SAMPLE SAID TO BE **SILVER METAL.**
ITEM NAME: COPPER SPACER.
ELEMENT: Ag PLATING.
VENDOR: KUNSHAN HEYI PRECISION ELECTRONICS CO., LTD.

TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

TO BE CONTINUED

AUTHORIZED BY:
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WUXI LTD.

JESSICA LU
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Attention is drawn to the terms and conditions printed overleaf.



TEST REPORT

NUMBER: WUX0609636

(A) TEST RESULT SUMMARY:

TESTING ITEM	RESULT
CADMIUM (Cd) CONTENT (mg/kg)	ND
LEAD (Pb) CONTENT (mg/kg)	ND
MERCURY (Hg) CONTENT (mg/kg)	ND
CHROMIUM (VI) (Cr ⁶⁺) RESULT (BY BOILING WATER EXTRACTION ON METAL) (mg/kg WITH 50cm ²)#	ND

REMARK:

mg/kg = MILLIGRAM PER KILOGRAM BASED ON DRY WEIGHT OF SAMPLE = ppm
 mg/kg WITH 50cm² = MILLIGRAM PER KILOGRAM WITH 50 SQUARE CENTIMETER
 ND = NOT DETECTED

(B) RoHS REQUIREMENT:

RESTRICTED SUBSTANCES	LIMITS
CADMIUM (Cd)	0.01% (100 ppm)
LEAD (Pb)	0.1% (1000 ppm)
MERCURY (Hg)	0.1% (1000 ppm)
CHROMIUM (VI) (Cr ⁶⁺)	0.1% (1000 ppm)

THE ABOVE LIMITS WERE QUOTED FROM 2002/95/EC AND AMENDMENT
 2005/618/EC FOR HOMOGENEOUS MATERIAL.

TO BE CONTINUED

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Attention is drawn to the terms and conditions printed overleaf.



TEST REPORT

NUMBER: WUX0609636

(C) TEST METHOD:

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
CADMIUM (Cd) CONTENT	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
LEAD (Pb) CONTENT	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
MERCURY (Hg) CONTENT	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (FOR METAL)	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY BOILING WATER EXTRACTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER	0.02mg/kg with 50cm ² (IN TESTING SOLUTION)

NOTE: TESTS WERE CONDUCTED WITH REFERENCE TO 111/95/CDV VERSION 2007-10-12 WHICH IS STILL A DRAFT METHOD AND SUBJECT TO FUTURE CHANGES PRIOR TO PUBLICATION.

DATE SAMPLE RECEIVED: AUG 6, 2008

TESTING PERIOD: AUG 6, 2008 TO AUG 11, 2008

TO BE CONTINUED

Intertek Testing Services Wuxi Ltd.

No.8 Fubai Road, Xishan Economic Development Zone,
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無錫天祥質量技術服務有限公司

中國江蘇無錫錫山經濟開發區府北路8號 郵政編碼: 214101

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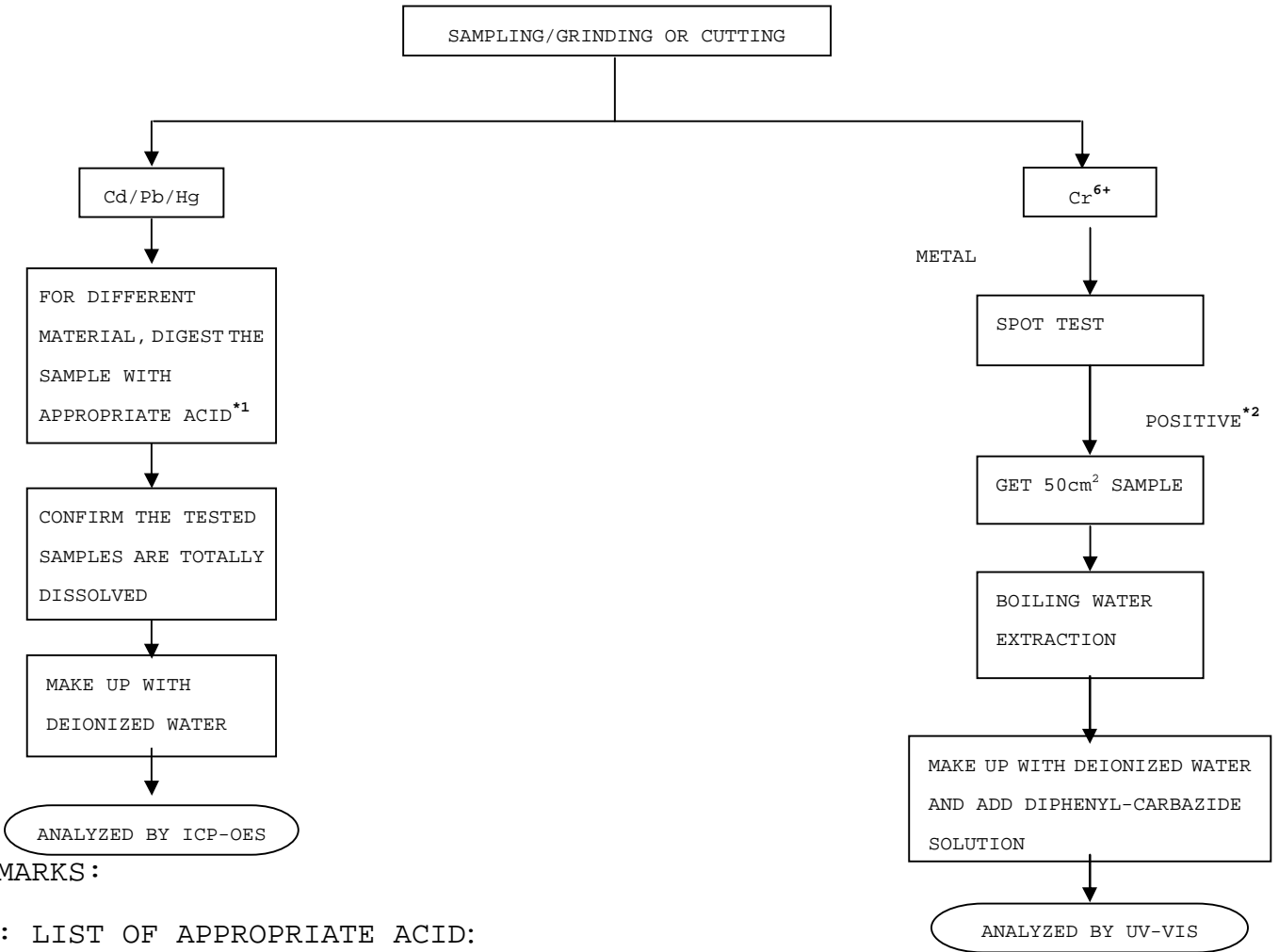
TEST REPORT

NUMBER: WUX0609636

MEASUREMENT FLOWCHART:

TEST FOR Cd/Pb/Hg/CHROMIUM (VI) CONTENTS

REFERENCE STANDARD: IEC 62321 (111/95/CDV)



REMARKS:

*1: LIST OF APPROPRIATE ACID:

MATERIAL	1 ACID ADDED FOR DIGESTION
POLYMERS	HNO ₃ , HCl, HF, H ₂ O ₂ , H ₃ BO ₃
METALS	HNO ₃ , HCl, HF
ELECTRONICS	HNO ₃ , HCl, H ₂ O ₂ , HBF ₄

*2: IF THE RESULT OF SPOT TEST IS POSITIVE, CHROMIUM VI WOULD BE DETERMINED AS DETECTED.

TO BE CONTINUED

Intertek Testing Services Wuxi Ltd.

No.8 Fubai Road, Xishan Economic Development Zone,
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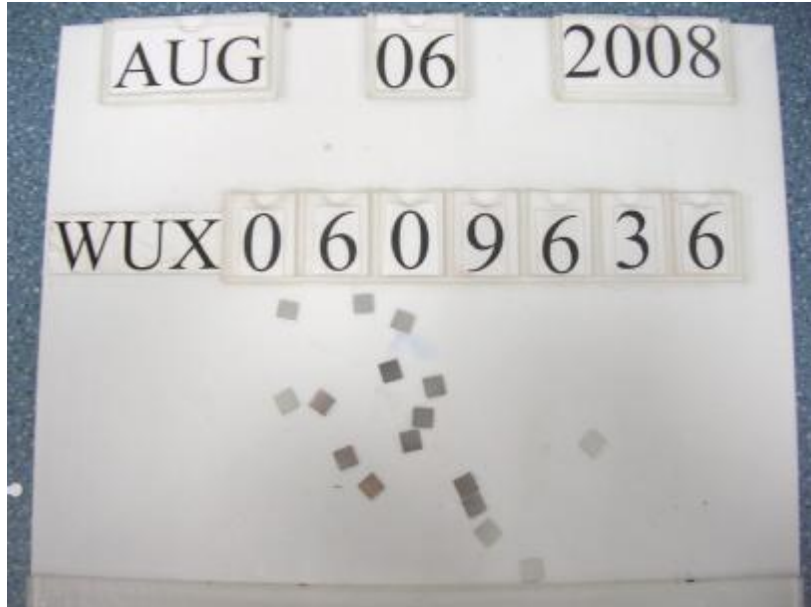
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TEST REPORT

NUMBER: WUX0609636

PHOTO



END OF REPORT

Intertek Testing Services Wuxi Ltd.

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TEST REPORT

NUMBER: WUX0609653

APPLICANT: CONCORD SEMICONDUCTOR(WUXI) CO., LTD. DATE: AUG 12,2008
EAST 1#, ZHENFA 6 ROAD, SHUOFANG
INDUSTRIAL PARK WUXI NATIONAL HIGH-TECH
DEVELOPMENT ZONE, WUXI, JIANGSU
ATTN: ZHANG XIAOPENG

SAMPLE DESCRIPTION:

ONE (1) SUBMITTED SAMPLE SAID TO BE **BLACK EPOXY**.
ITEM NAME: EPOXY MOLDING COMPOUND.
ELEMENT: EPOXY.
VENDOR: SHANGHAI PINMORE TRADING CO.

TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

SUMMARY:

<u>TESTED SAMPLES</u>	<u>STANDARD</u>	<u>RESULT</u>
SUBMITTED SAMPLES	WITH REFERENCE TO TEST METHOD OF IEC 62321 - 111/95/CDV AND MAXIMUM CONCENTRATION LIMITS QUOTED FROM ROHS DIRECTIVES 2002/95/EC AND AMENDMENT 2005/618/EC	PASS

TO BE CONTINUED

AUTHORIZED BY:
FOR INTERTEK TESTING SERVICES
WUXI LTD.

JESSICA LU
GENERAL MANAGER

Intertek Testing Services Wuxi Ltd.

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TEST REPORT

NUMBER: WUX0609653

(A) TEST RESULT SUMMARY:

TESTING ITEM	RESULT
CADMIUM (Cd) CONTENT (mg/kg)	ND
LEAD (Pb) CONTENT (mg/kg)	59
MERCURY (Hg) CONTENT (mg/kg)	ND
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (mg/kg) (FOR NON-METAL)	ND
POLYBROMINATED BIPHENYLS (PBBs) (mg/kg)	
MONOBROMO BIPHENYLS (MonoBB)	ND
DIBROMO BIPHENYLS (DiBB)	ND
TRIBROMO BIPHENYLS (TriBB)	ND
TETRABROMO BIPHENYLS (TetraBB)	ND
PENTABROMO BIPHENYLS (PentaBB)	ND
HEXABROMO BIPHENYLS (HexaBB)	ND
HEPTABROMO BIPHENYLS (HeptaBB)	ND
OCTABROMO BIPHENYLS (OctaBB)	ND
NONABROMO BIPHENYLS (NonaBB)	ND
DECABROMO BIPHENYL (DecaBB)	ND
POLYBROMINATED DIPHENYL ETHERS (PBDEs) (mg/kg)	
MONOBROMO DIPHENYL ETHERS (MonoBDE)	ND
DIBROMO DIPHENYL ETHERS (DiBDE)	ND
TRIBROMO DIPHENYL ETHERS (TriBDE)	ND
TETRABROMO DIPHENYL ETHERS (TetraBDE)	ND
PENTABROMO DIPHENYL ETHERS (PentaBDE)	ND
HEXABROMO DIPHENYL ETHERS (HexaBDE)	ND
HEPTABROMO DIPHENYL ETHERS (HeptaBDE)	ND
OCTABROMO DIPHENYL ETHERS (OctaBDE)	ND
NONABROMO DIPHENYL ETHERS (NonaBDE)	ND
DECABROMO DIPHENYL ETHER (DecaBDE)	ND

REMARK:

mg/kg = MILLIGRAM PER KILOGRAM = ppm

ND = NOT DETECTED

TO BE CONTINUED

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Attention is drawn to the terms and conditions printed overleaf.



TEST REPORT

NUMBER: WUX0609653

(B) RoHS REQUIREMENT:

RESTRICTED SUBSTANCES	LIMITS
CADMIUM (Cd)	0.01% (100 ppm)
LEAD (Pb)	0.1% (1000 ppm)
MERCURY (Hg)	0.1% (1000 ppm)
CHROMIUM (VI) (Cr ⁶⁺)	0.1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs)	0.1% (1000 ppm)
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	0.1% (1000 ppm)

THE ABOVE LIMITS WERE QUOTED FROM 2002/95/EC AND AMENDMENT 2005/618/EC FOR HOMOGENEOUS MATERIAL.

(c) TEST METHOD:

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
CADMIUM (Cd) CONTENT	WITH REFERENCE TO IEC 62321 111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
LEAD (Pb) CONTENT	WITH REFERENCE TO IEC 62321 111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
MERCURY (Hg) CONTENT	WITH REFERENCE TO IEC 62321 111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (FOR NON-METAL)	WITH REFERENCE TO IEC 62321 111/95/CDV, BY ALKALINE DIGESTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER	1 mg/kg
POLYBROMINATED BIPHENYLS (PBBs) & POLYBROMINATED DIPHENYL ETHERS (PBDEs)	WITH REFERENCE TO IEC 62321 111/95/CDV, BY SOLVENT EXTRACTION AND DETERMINED BY GC/MS AND FURTHER HPLC CONFIRMATION WHEN NECESSARY.	5 mg/kg

NOTE: TESTS WERE CONDUCTED WITH REFERENCE TO 111/95/CDV VERSION 2007-10-12 WHICH IS STILL A DRAFT METHOD AND SUBJECT TO FUTURE CHANGES PRIOR TO PUBLICATION.

DATE SAMPLE RECEIVED: AUG 6, 2008

TESTING PERIOD: AUG 6, 2008 TO AUG 11, 2008

TO BE CONTINUED

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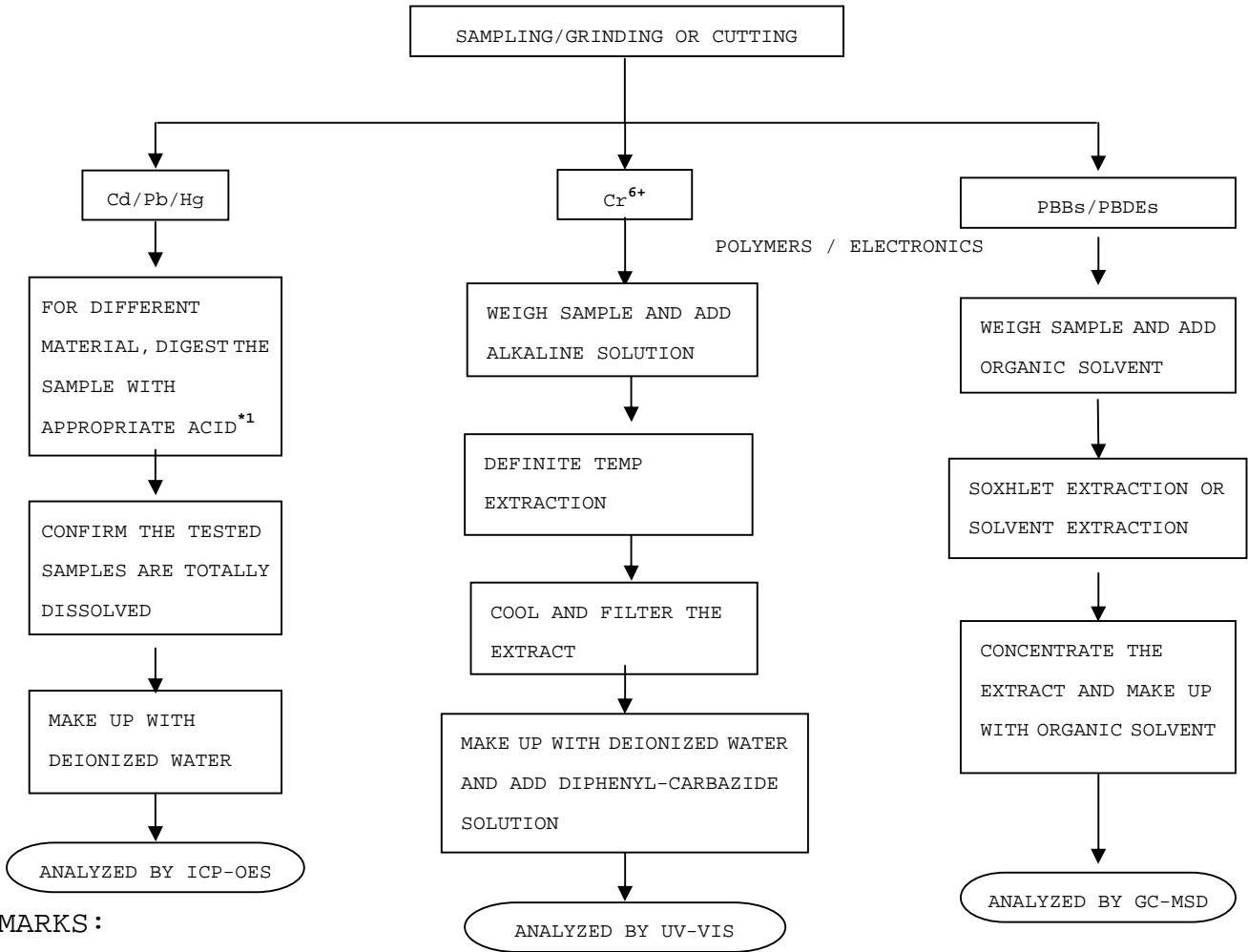
Attention is drawn to the terms and conditions printed overleaf.



TEST REPORT

NUMBER: WUX0609653

MEASUREMENT FLOWCHART:
 TEST FOR Cd/Pb/Hg/CHROMIUM (VI)/PBBS/PBDES CONTENTS
 REFERENCE STANDARD: IEC 62321 (111/95/CDV)



REMARKS :

*1: LIST OF APPROPRIATE ACID:

MATERIAL	1 ACID ADDED FOR DIGESTION
POLYMERS	HNO ₃ , HCl, HF, H ₂ O ₂ , H ₃ BO ₃
METALS	HNO ₃ , HCl, HF
ELECTRONICS	HNO ₃ , HCl, H ₂ O ₂ , HBF ₄

*2: IF THE RESULT OF SPOT TEST IS POSITIVE, CHROMIUM VI WOULD BE DETERMINED AS DETECTED.

TO BE CONTINUED

Intertek Testing Services Wuxi Ltd.

No.8 Fubei Road, Xishan Economic Development Zone,
 Wuxi 214101, Jiangsu, China

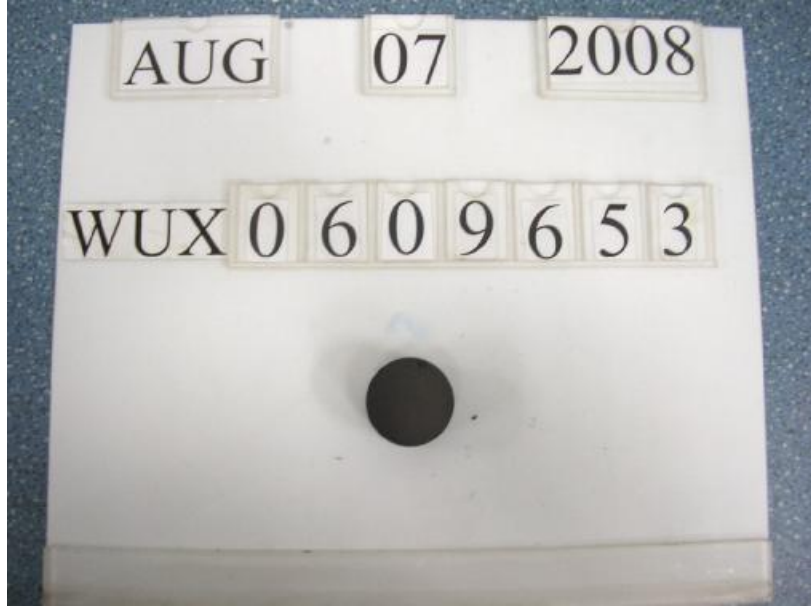
無錫天祥質量技術服務有限公司

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PHOTO



END OF REPORT

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TEST REPORT

NUMBER: WUX0609652

APPLICANT: CONCORD SEMICONDUCTOR(WUXI) CO., LTD. DATE: AUG 12,2008
EAST 1#, ZHENFA 6 ROAD, SHUOFANG
INDUSTRIAL PARK WUXI NATIONAL HIGH-TECH
DEVELOPMENT ZONE, WUXI, JIANGSU
ATTN: ZHANG XIAOPENG

SAMPLE DESCRIPTION:

ONE (1) SUBMITTED SAMPLE SAID TO BE **SILVER METAL**.
ITEM NAME: LEAD WITH Sn PLATING.
ELEMENT: Sn PLATING.
VENDOR: TIANSHUN PLATING
TESTED COMPONENT: PLATING OF PIN.

TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

TO BE CONTINUED

AUTHORIZED BY:
FOR INTERTEK TESTING SERVICES
WUXI LTD.

JESSICA LU
GENERAL MANAGER

Intertek Testing Services Wuxi Ltd.

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TEST REPORT

NUMBER: WUX0609652

(A) TEST RESULT SUMMARY:

TESTING ITEM	RESULT
CADMIUM (Cd) CONTENT (mg/kg) /PLATING	ND
LEAD (Pb) CONTENT (mg/kg) /PLATING	30
MERCURY (Hg) CONTENT (mg/kg) /PLATING	ND
CHROMIUM (VI) (Cr ⁶⁺) RESULT (BY BOILING WATER EXTRACTION ON METAL) (mg/kg WITH 50cm ²)#	ND

REMARK:

mg/kg = MILLIGRAM PER KILOGRAM BASED ON DRY WEIGHT OF SAMPLE = ppm

mg/kg WITH 50cm² = MILLIGRAM PER KILOGRAM WITH 50 SQUARE CENTIMETER

ND = NOT DETECTED

= THE RESULT IS FOR REFERENCE ONLY

(B) RoHS REQUIREMENT:

RESTRICTED SUBSTANCES	LIMITS
CADMIUM (Cd)	0.01% (100 ppm)
LEAD (Pb)	0.1% (1000 ppm)
MERCURY (Hg)	0.1% (1000 ppm)
CHROMIUM (VI) (Cr ⁶⁺)	0.1% (1000 ppm)

THE ABOVE LIMITS WERE QUOTED FROM 2002/95/EC AND AMENDMENT

2005/618/EC FOR HOMOGENEOUS MATERIAL.

TO BE CONTINUED

Intertek Testing Services Wuxi Ltd.

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TEST REPORT

NUMBER: WUX0609652

(C) TEST METHOD:

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
CADMIUM (Cd) CONTENT	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
LEAD (Pb) CONTENT	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
MERCURY (Hg) CONTENT	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (FOR METAL)	WITH REFERENCE TO IEC 62321 -111/95/CDV, BY BOILING WATER EXTRACTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER	0.02mg/kg with 50cm ² (IN TESTING SOLUTION)

NOTE: TESTS WERE CONDUCTED WITH REFERENCE TO 111/95/CDV VERSION 2007-10-12 WHICH IS STILL A DRAFT METHOD AND SUBJECT TO FUTURE CHANGES PRIOR TO PUBLICATION.

DATE SAMPLE RECEIVED: AUG 6, 2008

TESTING PERIOD: AUG 6, 2008 TO AUG 11, 2008

TO BE CONTINUED

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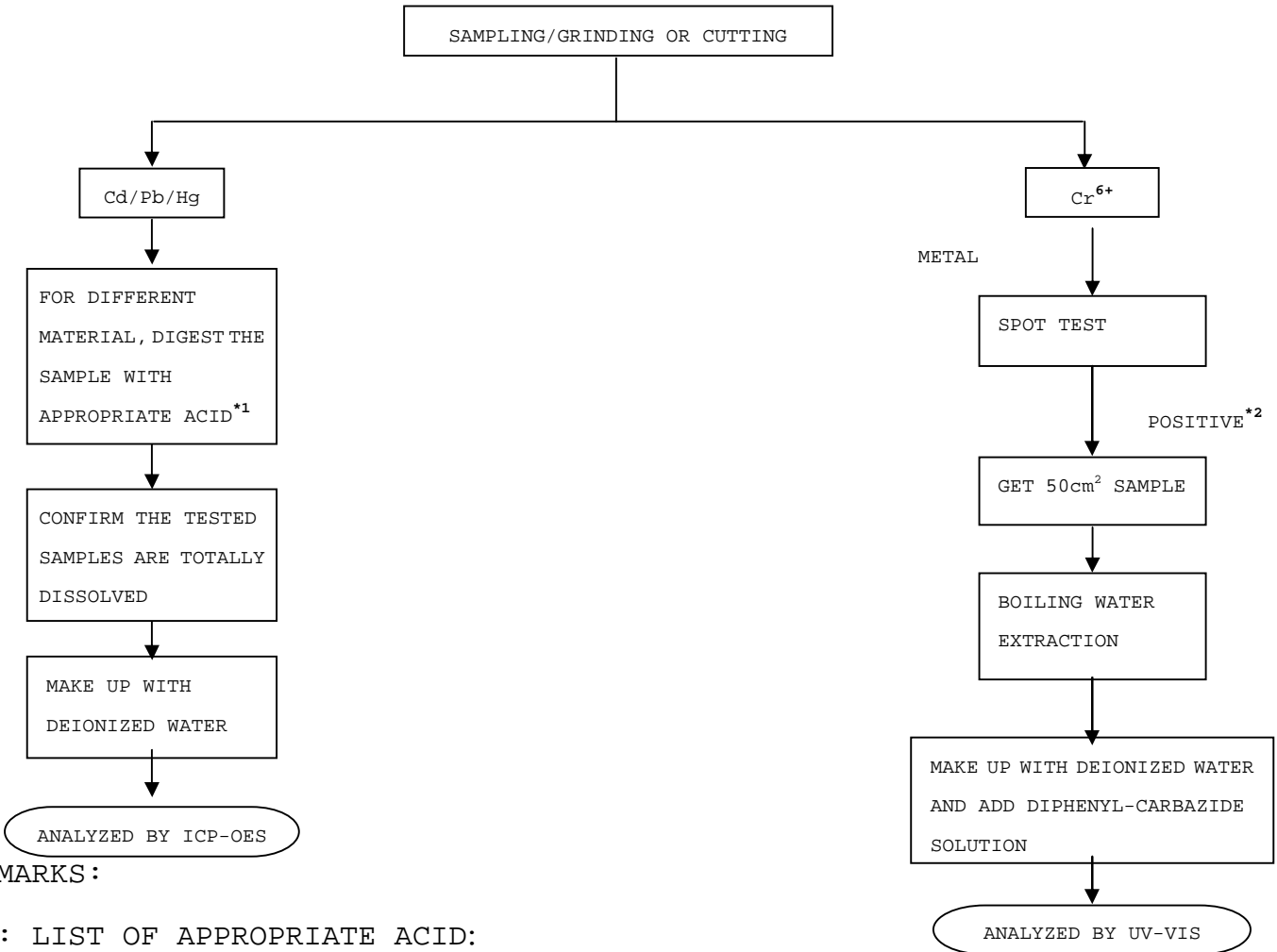
TEST REPORT

NUMBER: WUX0609652

MEASUREMENT FLOWCHART:

TEST FOR Cd/Pb/Hg/CHROMIUM (VI) CONTENTS

REFERENCE STANDARD: IEC 62321 (111/95/CDV)



REMARKS:

*1: LIST OF APPROPRIATE ACID:

MATERIAL	1 ACID ADDED FOR DIGESTION
POLYMERS	HNO ₃ , HCl, HF, H ₂ O ₂ , H ₃ BO ₃
METALS	HNO ₃ , HCl, HF
ELECTRONICS	HNO ₃ , HCl, H ₂ O ₂ , HBF ₄

*2: IF THE RESULT OF SPOT TEST IS POSITIVE, CHROMIUM VI WOULD BE DETERMINED AS DETECTED.

TO BE CONTINUED

Intertek Testing Services Wuxi Ltd.

No.8 Fubei Road, Xishan Economic Development Zone,
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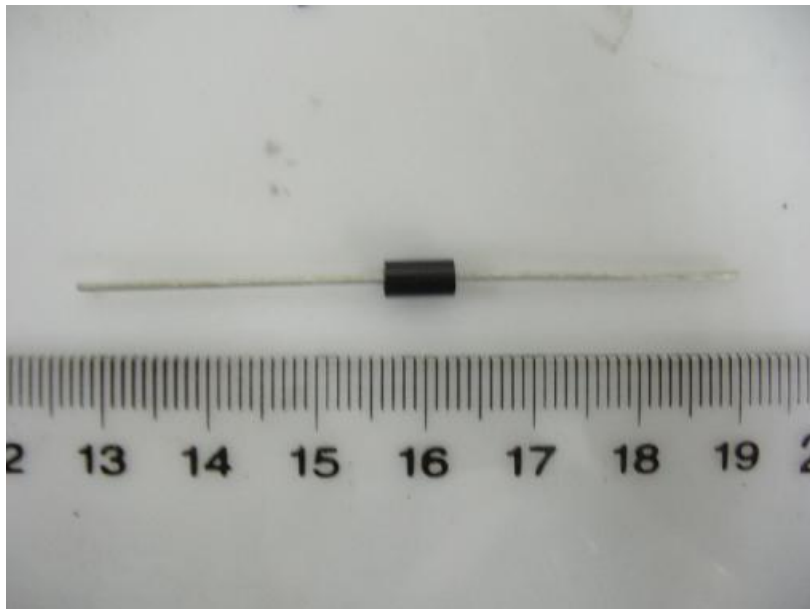
無錫天祥質量技術服務有限公司

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PHOTO



END OF REPORT

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TEST REPORT

NUMBER: WUX0609654

APPLICANT: CONCORD SEMICONDUCTOR(WUXI) CO., LTD. DATE: AUG 12,2008
EAST 1#, ZHENFA 6 ROAD, SHUOFANG
INDUSTRIAL PARK WUXI NATIONAL HIGH-TECH
DEVELOPMENT ZONE, WUXI, JIANGSU
ATTN: ZHANG XIAOPENG

SAMPLE DESCRIPTION:

ONE (1) SUBMITTED SAMPLE SAID TO BE **GRAY INK.**
ITEM NAME: UV INK.
ELEMENT: NA.
VENDOR: DEXI TECH.

TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

TO BE CONTINUED

AUTHORIZED BY:
FOR INTERTEK TESTING SERVICES
WUXI LTD.

JESSICA LU
GENERAL MANAGER

Intertek Testing Services Wuxi Ltd.

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Attention is drawn to the terms and conditions printed overleaf.



TEST REPORT

NUMBER: WUX0609654

(A) TEST RESULT SUMMARY:

TESTING ITEM	RESULT
CADMIUM (Cd) CONTENT (mg/kg)	ND
LEAD (Pb) CONTENT (mg/kg)	ND
MERCURY (Hg) CONTENT (mg/kg)	ND
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (mg/kg) (FOR NON-METAL)	ND
POLYBROMINATED BIPHENYLS (PBBs) (mg/kg)	
MONOBROMO BIPHENYLS (MonoBB)	ND
DIBROMO BIPHENYLS (DiBB)	ND
TRIBROMO BIPHENYLS (TriBB)	ND
TETRABROMO BIPHENYLS (TetraBB)	ND
PENTABROMO BIPHENYLS (PentaBB)	ND
HEXABROMO BIPHENYLS (HexaBB)	ND
HEPTABROMO BIPHENYLS (HeptaBB)	ND
OCTABROMO BIPHENYLS (OctaBB)	ND
NONABROMO BIPHENYLS (NonaBB)	ND
DECABROMO BIPHENYL (DecaBB)	ND
POLYBROMINATED DIPHENYL ETHERS (PBDEs) (mg/kg)	
MONOBROMO DIPHENYL ETHERS (MonoBDE)	ND
DIBROMO DIPHENYL ETHERS (DiBDE)	ND
TRIBROMO DIPHENYL ETHERS (TriBDE)	ND
TETRABROMO DIPHENYL ETHERS (TetraBDE)	ND
PENTABROMO DIPHENYL ETHERS (PentaBDE)	ND
HEXABROMO DIPHENYL ETHERS (HexaBDE)	ND
HEPTABROMO DIPHENYL ETHERS (HeptaBDE)	ND
OCTABROMO DIPHENYL ETHERS (OctaBDE)	ND
NONABROMO DIPHENYL ETHERS (NonaBDE)	ND
DECABROMO DIPHENYL ETHER (DecaBDE)	ND

REMARK:

mg/kg = MILLIGRAM PER KILOGRAM = ppm

ND = NOT DETECTED

TO BE CONTINUED

Intertek Testing Services Wuxi Ltd.

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Attention is drawn to the terms and conditions printed overleaf.



TEST REPORT

NUMBER: WUX0609654

(B) RoHS REQUIREMENT:

RESTRICTED SUBSTANCES	LIMITS
CADMIUM (Cd)	0.01% (100 ppm)
LEAD (Pb)	0.1% (1000 ppm)
MERCURY (Hg)	0.1% (1000 ppm)
CHROMIUM (VI) (Cr ⁶⁺)	0.1% (1000 ppm)
POLYBROMINATED BIPHENYLS (PBBs)	0.1% (1000 ppm)
POLYBROMINATED DIPHENYL ETHERS (PBDEs)	0.1% (1000 ppm)

THE ABOVE LIMITS WERE QUOTED FROM 2002/95/EC AND AMENDMENT 2005/618/EC FOR HOMOGENEOUS MATERIAL.

(c) TEST METHOD:

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
CADMIUM (Cd) CONTENT	WITH REFERENCE TO IEC 62321 111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
LEAD (Pb) CONTENT	WITH REFERENCE TO IEC 62321 111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
MERCURY (Hg) CONTENT	WITH REFERENCE TO IEC 62321 111/95/CDV, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 mg/kg
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (FOR NON-METAL)	WITH REFERENCE TO IEC 62321 111/95/CDV, BY ALKALINE DIGESTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER	1 mg/kg
POLYBROMINATED BIPHENYLS (PBBs) & POLYBROMINATED DIPHENYL ETHERS (PBDEs)	WITH REFERENCE TO IEC 62321 111/95/CDV, BY SOLVENT EXTRACTION AND DETERMINED BY GC/MS AND FURTHER HPLC CONFIRMATION WHEN NECESSARY.	5 mg/kg

NOTE: TESTS WERE CONDUCTED WITH REFERENCE TO 111/95/CDV VERSION 2007-10-12 WHICH IS STILL A DRAFT METHOD AND SUBJECT TO FUTURE CHANGES PRIOR TO PUBLICATION.

DATE SAMPLE RECEIVED: AUG 6, 2008

TESTING PERIOD: AUG 6, 2008 TO AUG 11, 2008

TO BE CONTINUED

Intertek Testing Services Wuxi Ltd.

No.8 Fubei Road, Xishan Economic Development Zone,

Wuxi 214101, Jiangsu, China

無錫天祥質量技術服務有限公司

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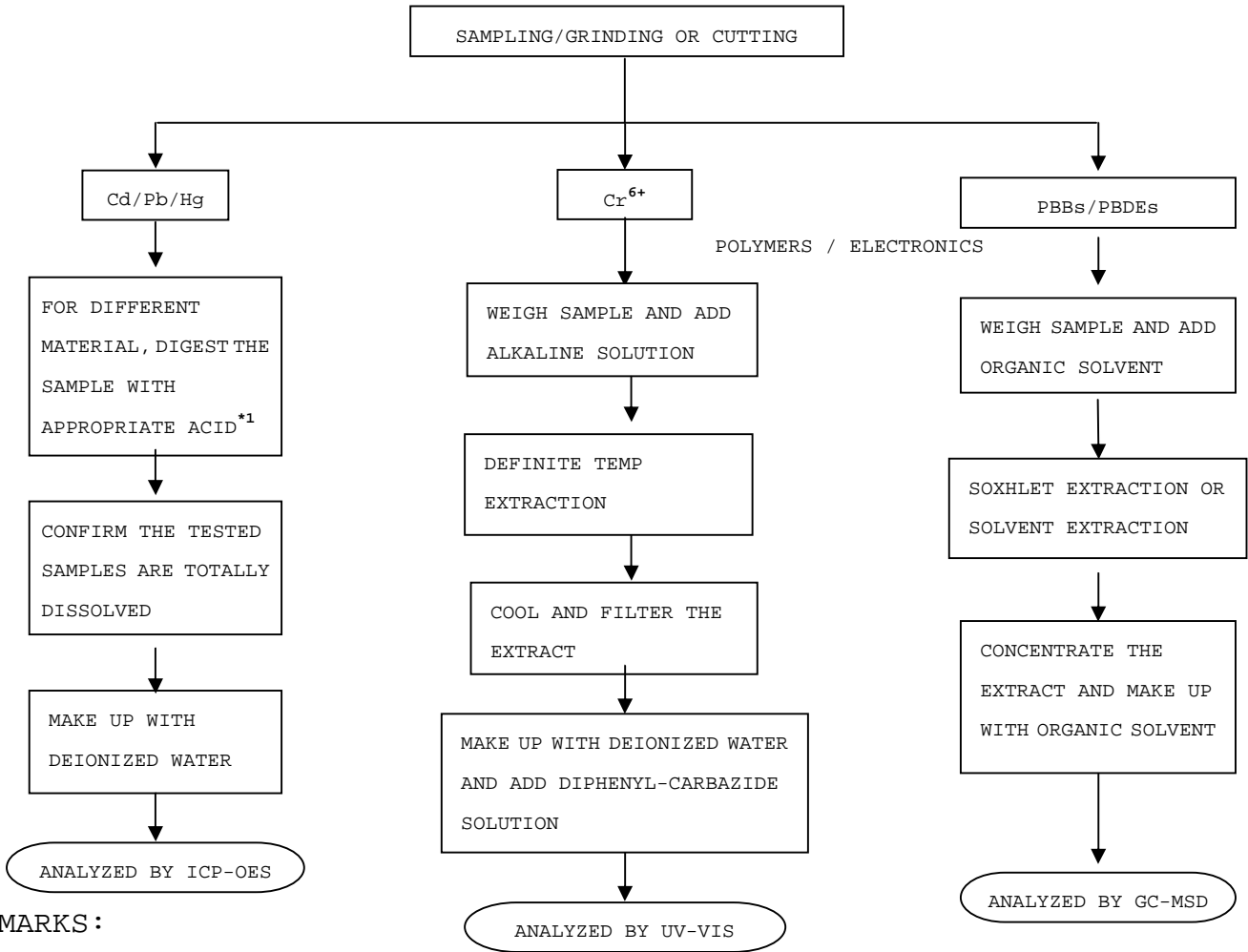
Attention is drawn to the terms and conditions printed overleaf.



TEST REPORT

NUMBER: WUX0609654

MEASUREMENT FLOWCHART:
 TEST FOR Cd/Pb/Hg/CHROMIUM (VI)/PBBS/PBDES CONTENTS
 REFERENCE STANDARD: IEC 62321 (111/95/CDV)



REMARKS :

*1: LIST OF APPROPRIATE ACID:

MATERIAL	1 ACID ADDED FOR DIGESTION
POLYMERS	HNO ₃ , HCl, HF, H ₂ O ₂ , H ₃ BO ₃
METALS	HNO ₃ , HCl, HF
ELECTRONICS	HNO ₃ , HCl, H ₂ O ₂ , HBF ₄

*2: IF THE RESULT OF SPOT TEST IS POSITIVE, CHROMIUM VI WOULD BE DETERMINED AS DETECTED.

TO BE CONTINUED

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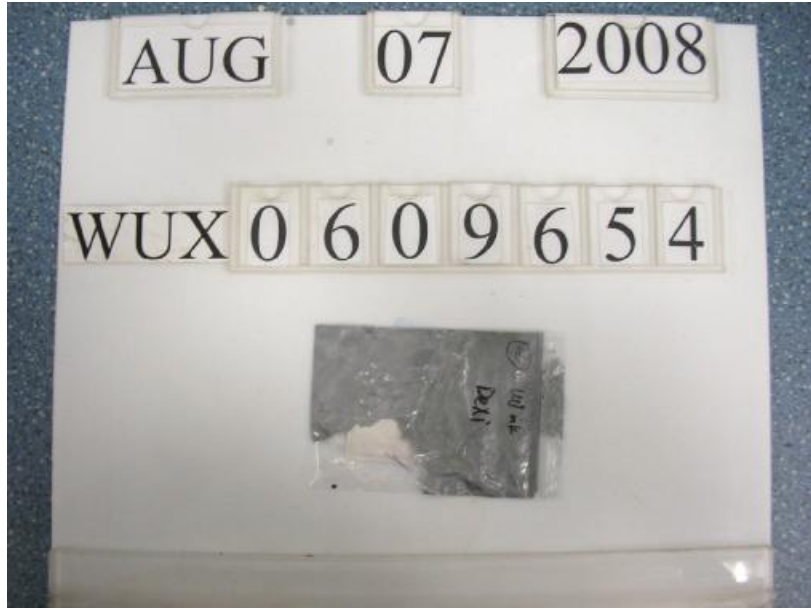
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PHOTO



END OF REPORT

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