

Date:2009/05/13

## **Product Eco-design Analysis**

ZEROPLUS

3F., NO. 121, JIAN BA RD., CHUNG HO CITY, TAIPEI HSIEN, R. O. C. Total Page: 38

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Type of Product:	LOGIC ANALYZER
Model No.:	LAP-C (XXXXXX) (THE 1ST/2ND X COULD BE 16 OR 32 FOR CHANNEL DIFFERENCES AND THE 3RD/4TH/5TH/6TH X COULD BE 032/064/128/1000/2000 FOR MEMORY CAPACITY DIFFERENCES)
Sample Receiving Date:	2009/04/21
Testing Period:	2009/04/21 TO 2009/05/13



CONCLUSION: Please refer to the next page

WEEE compliance assessment was prepared by:

\_\_\_\_\_

Vincent Huang, Ph.D./Superv Signed for and on behalf of SGS TAIWAN LTD.

RoHS test report was prepared by:

Ellis Wei, Ph.D. / Supervisor Signed for and on behalf of SGS TAIWAN LTD. **Chemical Laboratory - Taipei**  WEEE compliance assessment was checked by:

\_\_\_\_\_\_\_

risty Lee, Ph.D./Supervisor Signed for and on behalf of SGS TAIWAN LTD.

RoHS test report was checked by:

Yuanmin Wen, OA/QC Manager

Signed for and on behalf of SGS TAIWAN LTD.

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#### **CONCLUSION:**

#### A. WEEE

The LOGIC ANALYZER is classified as Category 3 under Annex I of Directive 2002/96/EC. The following table shows the WEEE Directive compliance conclusion.

3R Assessment Item	Reuse/Recycling (%)	Recovery (%)
Result of Assessment	75.3	86.7
3R Targets under WEEE Directive	65	75
WEEE requirement compliance	PASS	PASS
Disassembly time (sec.)		23

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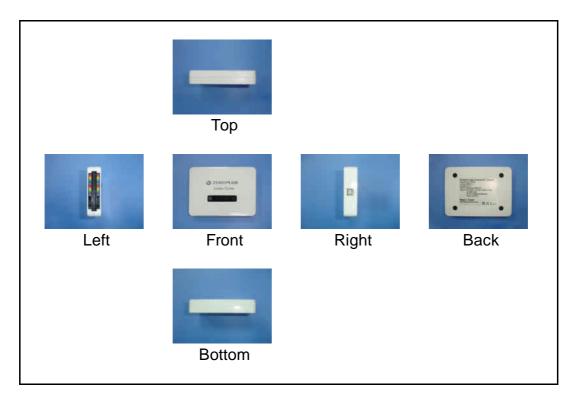
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#### **1. Product Information**

The product is a LOGIC ANALYZER. The weight of this product excluding package is 148.58 g. The appearance of the product is as follows:



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#### 2. Product Composition

The composition and weight of each part is described as follows:

Part Name	Part Name Composition					
Black polymer pad with adhesive,Transparent label with blue/silvery print,Black label,Colored label,Silvery/black label,Black plastic button with white print,White plastic case,Translucent plastic cap,White plastic case with gray print	Plastic	Plastic	85.06	57.2		
Silvery metallic screw	Fe(major)	Fe(major)	2.09	1.4		
РСВА	РСВА	РСВА	61.43	41.3		
Total			148.58	100.0		

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#### 3. Disassembly Procedure

#### 3.1 Flow Chart for Disassembly Procedure

The disassembly procedure taken here is in accordance with the treatment requirements under the Annex II of the WEEE Directive. In addition, to consider economic and efficiency factors, manual operation and disassembly tools have been applied to separate the components and materials from this product in order to simulate the scenario at the treatment facility, and to achieve the objective that the separated components and materials can be reused, recycled and recovered.

A~C : LOGIC ANALYZER disassembly procedures.

- A : Rubber foot and labels disassembly.
- B : Plastic case and PCBA disassembly.
- C : Plastic case detail disassembly.

No.1-13 : Denotes disassembly parts.

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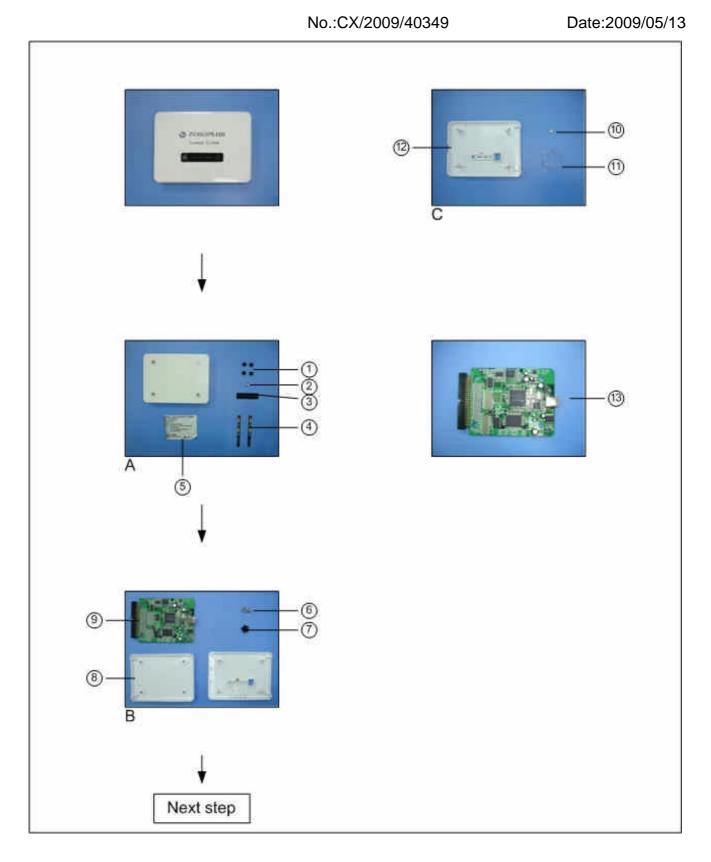
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#### 3.2 Component and Material Composition

The material declaration for this product, the disassembly tools and the disassembly time are described in the following table.

	Procedure			Part			-	assembly		-	
No.	Picture	No.	Name	Picture	Material	Weight (g)	Connection Technique	Tool	Time (s.)	Remark	
		1	Black polymer pad with adhesive	::	Plastic	0.75					
			2	Transparent label with blue/silvery print	•	Plastic	0.13				
А		3	Black label	_	Plastic	0.18	Adhesive	Knife	10		
		4 Colo	Colored label		Plastic	0.28					
		5	Silvery/black label		Plastic	0.34					

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Part Procedure Disassembly Weight Remark Connection Time No. Picture No. Name Picture Material Tool Technique (s.) (g) Silvery metallic 386 1.61 6 Fe(major) Part 9 is a screw PCBA which surface is **Black plastic** greater than button with white Plastic 0.62 7 ģ. 10 square print centimeters. Screwdriver 10 В Screw According to White plastic WEEE 39.52 Plastic 8 case directive, part 9 requires selective treatment. PCBA PCBA 61.43 9

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					100/0/2000	10010				10.2000/00/10	
	Procedure		Part Disassem					assembly	sembly		
No.	Picture	No.	Name	Picture	Material	Weight (g)	Connection Technique	Tool	Time (s.)	Remark	
		10	Silvery metallic screw	٩	Fe(major)	0.48					
с		11	Translucent plastic cap	<u>tin</u>	Plastic	1.84	Screw	Screwdriver	3		
		12	White plastic case with gray print		Plastic	41.40					

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Part Procedure Disassembly Weight Remark Connection Time No. Picture No. Name Picture Material Tool Technique (s.) (g) Part 13 is a variance part of part 9. Part 13 is a PCBA which surface is greater than 10 square PCBA PCBA 13 13 67.74 centimeters. According to WEEE directive, part 13 requires selective treatment.

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#### 3.3 Disassembly Tool

The disassembly tool used for this product shows in the following table.

Disassembly Tool	Picture
Screwdriver	•
Knife	Ŋ

## 3.4 Connection Technology

For this product, the connection technology including is as follows:

Connector Tech.	Number
Adhesive	9
Screw	5

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#### 4. Reuse / Recycling / Recovery Assessment

The reuse, recycling and recovery assessment for this product is based upon the waste treatment technologies and equipment that are most frequently available to the market. The following table is the result of the assessment.

Part Name	Reuse/ Recycling (%)*	Energy Recovery (%)*	Recovery (%)*
Black polymer pad with adhesive,Transparent label with blue/silvery print,Black label,Colored label,Silvery/black label,Black plastic button with white print,White plastic case,Translucent plastic cap,White plastic case with gray print	43.0	11.4	54.4
Silvery metallic screw	1.3		1.3
РСВА	31.0	—	31.0
Total	75.3	11.4	86.7

\*: the percentages are based on the total device weight.

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#### 5. WEEE Directive Compliance

#### 5.1 Selective Treatment for Materials and Components

This product contains component and material items, listed in Annex II of the WEEE Directive, that require selective treatment for materials and components of waste electrical and electronic equipment in accordance with Article 6(1). They are described in the following table.

	Loca	$M_{\rm e}$ ; what $(x)$	
Component/Material	Photo No.	Page	Weight (g)
Printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board is greater than 10 square centimeters	9, 13	9, 11	129.17

#### 5.2 Reuse/Recycling/Recovery Assessment

3R Assessment Item	Reuse/Recycling (%)	Recovery (%)		
Result of Assessment	75.3	86.7		
3R Targets under WEEE Directive	65	75		
WEEE requirement compliance	PASS	PASS		
Disassembly time (sec.)		23		

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## 5.3 Selective Treatment for Material and Components of Waste Electrical and Electronic Equipment (Annex II of WEEE Directive)

- Printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board is greater than 10 square centimeters
- Batteries
- External electric cables
- Liquid crystal displays (together with their casing where appropriate) of a surface greater than 100 square centimeters and all those back-lighted with gas discharge lamps
- Electrolyte capacitors containing substances of concern (height > 25 mm, diameter > 25 mm or proportionately similar volume)
- Mercury containing components, such as switches or backlighting lamps
- Plastic containing brominated flame retardants
- Polychlorinated biphenyls (PCB) containing capacitors
- Toner cartridges, liquid and pasty, as well as colour toner
- Asbestos waste and components which contain asbestos
- Cathode ray tubes
- Chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC) or hydrofluorocarbons (HFC), hydrocarbons (HC)
- Gas discharge lamps

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- Components containing refractory ceramic fibers
- Components containing radioactive substances with the exception of components that are below the exemption thresholds set in Article 3 of and Annex I to Council Directive 96/29/Euratom of 13 May 1996 laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionising radiation

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Report No.: CX/2009/40349

Date: 2009/05/13

#### 6. Material Fraction Composition

Table 1 The results of XRF screening and chemical test (Unit: mg/kg)

			Martin Landon Land			-	ġ																																																			
Ne	Trace of Commencents			Firmer	Material	X-ray Sc	reening	UV	ICP-AES	GC-MS	Nata																																															
No.	Type of Components		Description	Figure —	Туре	Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	Note																																															
	CASE					Pb	n.d.																																																			
				Personal serie Ambren 75, Barrett		Cd	n.d.																																																			
				Zeropias Logia Analyzar/PC, Raveri Naciona/APCRITIN Vocator/APCRITIN Nacional/APCRITIN		Hg	n.d.																																																			
		1.1	SILVERY/BLACK	SALATE STALLAS (STALLAS) Salate Salate Salat	Polymers	Cr	n.d.																																																			
			LABEL	Rada in Tainer		Br	n.d.																																																			
				Rate in Telean Re CE Raine		Cr(VI)			-																																																	
						PBB																																																				
	C To an other sectors					PBDE																																																				
	Contraction of the local division of the loc								Pb Cd	n.d.	-																																															
																																																						Hg	n.d. n.d.	-		
			BLACK POLYMER					Cr	n.d.																																																	
1		1.2	PAD WITH													Polymers	Br	n.d.	-																																							
			ADHESIVE			Cr(VI)	11.0.		-																																																	
									-																																																	
						PBB PBDE																																																				
	Annual and a second and a secon					Pb	n.d.																																																			
	triber and					Cd	n.d.	1		1																																																
	•			and a second		Hg	n.d.	1		1																																																
		1.3	SILVERY METALLIC		Metals	Cr	n.d.																																																			
		1.3	SCREW		IVIELAIS	Br	n.d.																																																			
				Car Car a		Cr(VI)																																																				
						PBB																																																				
						PBDE																																																				

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#### Date: 2009/05/13

_				Report No.: 0742003/40040							Date: 2003/03/
No.	Type of Components	Description		Figure	Material	X-ray Sc	reening	UV	ICP-AES	GC-MS	Note
NO.	Type of Components		Description	rigure	Туре	Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	NOLE
	CASE					Pb	n.d.				
						Cd	n.d.				
				and the second		Hg	n.d.				
		1.4	COLORED LABEL		Polymers	Cr	n.d.				
		1.4	COLONED LADEL		i olymers	Br	45600				
						Cr(VI)					
						PBB				n.d.	
	C Laure Line					PBDE				n.d.	
						Pb	130				
						Cd	n.d.				
			TRANSPARENT			Hg	n.d.				
		1.5	LABEL WITH		Polymers	Cr	n.d.				
		PRINT	BLUE/SILVERY		i olymoro	Br	n.d.				
			PRINI			Cr(VI)					
	Conception of Sector					PBB					
1						PBDE					
	STATUTE HITCH					Pb	n.d.				
				and the second se		Cd	n.d.				
		SILVERY	SILVERY METALLIC	Statement of the local division of the local		Hg	n.d.				
		1.6	SHEET WITH	ZEROPLUS	Metals	Cr	2250				
			ADHESIVE			Br	n.d.	Nie werdt ne			
						Cr(VI)		Negative			
	1.7					PBB PBDE					
						PBDE	nd				
				CONTRACTOR OF THE OWNER.		Cd	n.d. n.d.	{			
		1.7 TRA		and the second sec			n.d.				
						Hg Cr	n.a. n.d.	-			
			TRANSPARENT FILM		Polymers	Br	n.a. n.d.	{			
							n.u.				
						Cr(VI) PBB					
						PBDE					
		1				PDUE					

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Report No.:	CX/2009/40349
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#### Date: 2009/05/13

	•			Report No.: 07/2003/40049						Date. 2003/03/	
No.	Type of Components		Description	Figure	Material	X-ray So	creening	UV	ICP-AES	GC-MS	Note
NO.	Type of Components		Description	Figure	Туре	Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	Note
	CASE					Pb	n.d.				
						Cd	n.d.				
						Hg	n.d.				
		1.8	BLACK LABEL	ная нала тиннан ()	Polymers	Cr	n.d.				
		1.0	BLACK LADEL		Polymers	Br	n.d.				
						Cr(VI)					
						PBB					1
						PBDE					
	C Laure Lines					Pb	n.d.				
				0		Cd	n.d.				
				and an other states of the		Hg	n.d.				
		1.9 TRANSLUCENT PLASTIC CAP	TRANSLUCENT		Polymers	Cr	n.d.				
				i olymoro	Br	n.d.					
						Cr(VI)					
						PBB					
1	Personal Provide Lines					PBDE					
1.	And a state of the second				Polymers -	Pb	n.d.				
	Statistics   Kill Son					Cd	n.d.				
						Hg	n.d.				
		1.10	BLACK PLASTIC 1.10 BUTTON WITH WHITE PRINT			Cr	n.d.				
		1.10				Br	n.d.				
						Cr(VI)					
						PBB					
	1.11					PBDE					
						Pb	n.d.	ļ			
						Cd	n.d.				
1			WHITE PLASTIC	0.		Hg	n.d.				
		CASE WITH GRAY	Lange Toley	Polymers	Cr	n.d.					
1			PRINT		,	Br	n.d.				
1						Cr(VI)	-				4
						PBB					
						PBDE					

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Report No.:	CX/2009/40349

Date: 2009/05/13

	•	Nepolit No. 07/2003/10010							Bate: 2000/00/		
No.	Type of Components		Description	Figure	Material	X-ray Sc	reening	UV	ICP-AES	GC-MS	Note
INO.	Type of Components		Description	Figure	Туре	Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	Note
	CASE					Pb	n.d.				
						Cd	n.d.				
						Hg	n.d.				
1	Contraction in the second seco	1.12	WHITE PLASTIC		Polymers	Cr	n.d.				
1		1.12	CASE	and the second se	Folymers	Br	n.d.				
				0 0		Cr(VI)					
						PBB					
						PBDE					
	PCBA			A REAL PROPERTY AND A REAL		Pb			29		
						Cd			n.d.		
						Hg			n.d.		
		2.1.1	PCBA-1		Composite	Cr					Refer to
			T OB/(T		Material	Br					Table 2~3
						Cr(VI)		n.d.			
						PBB				n.d.	
						PBDE				n.d.	
				A REAL PROPERTY AND INCOME.		Pb			19		
	2			THE REAL PROPERTY AND		Cd			n.d.		
						Hg			n.d.		
2		2.1.2	PCBA-2		Composite	Cr					Refer to
			-		Material	Br					Table 2~3
						Cr(VI)		n.d.			
						PBB				n.d.	
	5054					PBDE				n.d.	
1	PCBA					Pb	n.d.				
1						Cd	n.d.				
1			ELEOTRON'S		<b>a</b>	Hg	n.d.				
1		2.2	ELECTRONIC	(330)	Composite	Cr	n.d.				
1			COMPONENT		Material	Br	n.d.				
						Cr(VI)	-				
1						PBB	{				
		I				PBDE	l				

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#### Date: 2009/05/13

·											Bate: 2000/00/
No.	Type of Components		Description	Figure	Material X-ray Screening		UV	ICP-AES	GC-MS	Note	
NO.	Type of Components		Description	Figure	Туре	Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	Note
	PCBA					Pb	n.d.				
						Cd	n.d.				
						Hg	n.d.				
		2.3	ELECTRONIC		Composite	Cr	n.d.				
		2.5	COMPONENT		Material	Br	n.d.				
						Cr(VI)					
						PBB					
						PBDE					
						Pb	110				
						Cd	n.d.				
						Hg	n.d.				
		2.4	ELECTRONIC	339	Composite	Cr	n.d.				
		2	2.4 COMPONENT		Material	Br	31300				
	and the second se					Cr(VI)					
						PBB				n.d.	
2						PBDE				n.d.	
					Composite	Pb	19100	-	***	-	
						Cd	n.d.	-		-	
						Hg	n.d.	-		-	
		2.5	ELECTRONIC			Cr	n.d.	-			
			COMPONENT	1. /	Material	Br	n.d.				
				191		Cr(VI)	-				
						PBB					
-	DCDA					PBDE					
	PCBA 2.6.1					Pb	n.d.	-		-	
						Cd	n.d.	4		4	
		2.6.1 BLACK PLAST HOUSING				Hg Cr	n.d.	4		4	
					Polymers	Br	n.d.	4			
			TIOUSING				60100				
	Constraint of the					Cr(VI)	4				
						PBB	4			n.d.	
						PBDE				n.d.	

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Report No.:	CX/2009/40349
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#### Date: 2009/05/13

-					Report No.: 0/22003/40043							
No.	Type of Components		Description	Figure	Material X-ray Screening		UV	ICP-AES	GC-MS	Note		
INO.	Type of Components		Description	Figure	Туре	Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	NOLE	
	PCBA					Pb	n.d.					
						Cd	n.d.					
				>h men		Hg	n.d.					
		2.6.2	GOLDEN METALLIC	TO TOUS	Metals	Cr	n.d.					
		2.0.2	PIN		Metals	Br	n.d.					
				The second secon		Cr(VI)						
	the second s					PBB						
						PBDE						
	PCBA					Pb	n.d.					
				100000000000000000000000000000000000000		Cd	n.d.					
						Hg	n.d.					
		2.7.1 SILVERY METALLIC HOUSING		Metals	Cr	n.d.						
			HOUSING		, working	Br	n.d.					
						Cr(VI)						
						PBB						
2						PBDE						
_						Pb	n.d.					
					i L	Cd	n.d.					
						Hg	n.d.					
		2.7.2	WHITE PLASTIC		Polymers	Cr	n.d.					
			HOUSING		i olymeis	Br	55100					
						Cr(VI)					-	
						PBB				n.d.	-	
						PBDE				n.d.		
						Pb	n.d.	4		4		
						Cd	n.d.	{		{		
				(Z)		Hg	n.d.	{		{		
		2.7.3			Metals	Cr	n.d.	{				
			3 METALLIC PIN			Br	n.d.					
						Cr(VI)	-				-	
						PBB	-				-	
						PBDE		l				

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|--|

Date: 2009/05/13

									Date: 2000/00/		
No.	Type of Components		Description	Figure	Material	X-ray Sc	reening	UV	ICP-AES	GC-MS	Note
INO.	Type of Components		Description	Figure	Туре	Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	Note
	PCBA					Pb	n.d.				
						Cd	n.d.				
						Hg	n.d.				
		2.8.1	SILVERY METALLIC	0	Metals	Cr	n.d.				
		2.0.1	PAD		ivietais	Br	n.d.				
						Cr(VI)					
				Number of the state of the state of the		PBB					
						PBDE					
						Pb	n.d.				
						Cd	n.d.				
						Hg	n.d.				
2		2.8.2 BLACK PLA PAD	BLACK PLASTIC	((13%))	Polymers	Cr	n.d.				
2			PAD		r olymers	Br	104				
						Cr(VI)					
		Logic				PBB					
	ang <sup>o</sup> si logici sulla					PBDE					
	1/5 Vice			222	Polymers	Pb	n.d.				
	Vice Vice	2.8.3 BLACK PLASTIC HOUSING				Cd	n.d.				
						Hg	n.d.				
						Cr	119				
			HOUSING			Br	42700				
						Cr(VI)					
						PBB				n.d.	
	VADIATION					PBDE			40	n.d.	
	VARIATION					Pb		4	18	4	
	3		.1 PCBA-1			Cd			n.d.		
						Hg		{	n.d.	{	
3		3.1.1			Composite Material	Cr		{			Refer to Table 4~5
					IVIALEITIAI	Br					Table 4~5
	2					Cr(VI)		n.d.			
						PBB				n.d.	
						PBDE				n.d.	

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#### Date: 2009/05/13

No	2	Type of Components		Description Figure		Material	X-ray Sc	reening	UV	ICP-AES	GC-MS	Note
	10.	Type of Components		Description	Figure	Туре	Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	NOLE
		VARIATION					Pb			11		
							Cd			n.d.		
						Hg			n.d.			
	2		3.1.2 PCBA-2	DCBA-2		Composite	Cr					Refer to
`	5	2 3.1.2 PCBA-			Material	Br					Table 4~5	
						Cr(VI)		n.d.				
					and the second se		PBB				n.d.	
							PBDE				n.d.	

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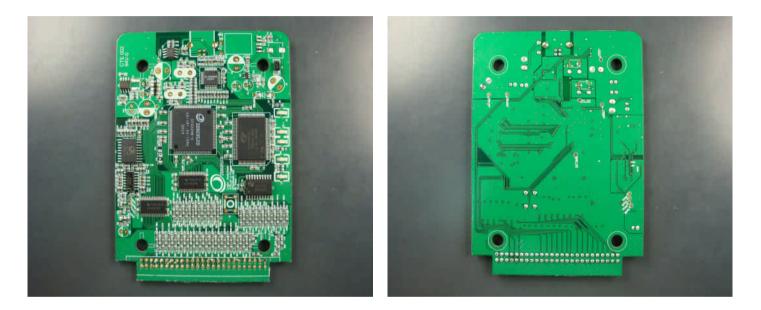
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Report No.: CX/2009/40349

Date: 2009/05/13

Figure 1 The pictures of the PCB (CX/2009/40349-2.1)



Top side of the PCB (CX/2009/40349-2.1)

Bottom side of the PCB (CX/2009/40349-2.1)

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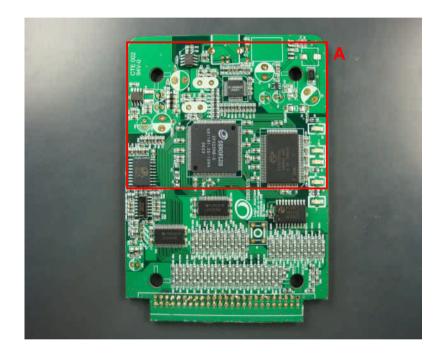
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Report No.: CX/2009/40349

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Figure 2 The figure with letter and frame shows the mapping areas on top side of the PCB (CX/2009/40349-2.1)



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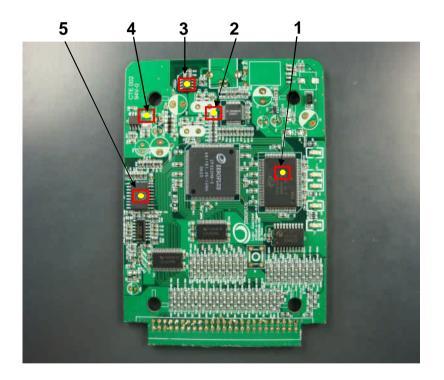
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Figure 3 The figure shows the selected positions of the top side of the PCB (CX/2009/40349-2.1) for point analysis



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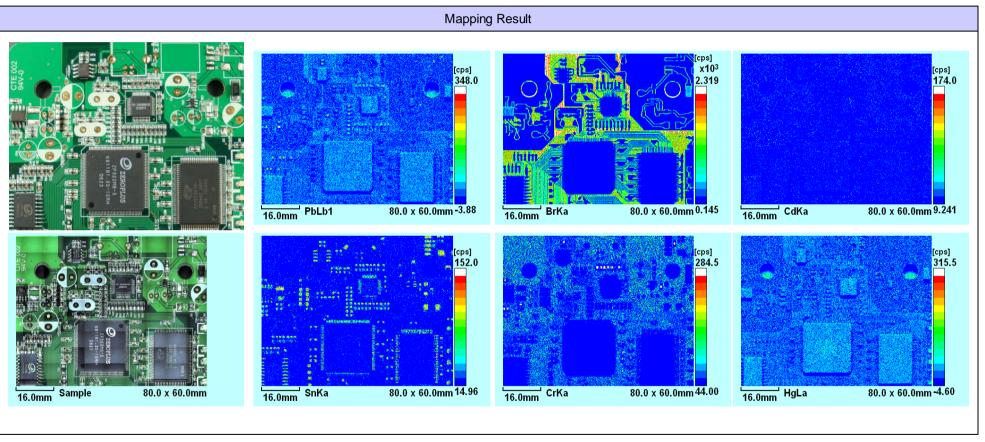
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Table 2 Mapping results of area A of the PCB (CX/2009/40349-2.1)



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Table 3 The test results of the top side of the PCB (CX/2009/40349-2.1) by point analysis

Point Analysis	No.	Figure	Material		X-ray Screening	3
			Туре	Element	Data	Note
		476- 080 0260		Pb	n.d.	
5 4 3 2 1		0200	<b>A 1</b>	Cd	n.d.	
	1	) e O V	Composite Material	Hg	n.d.	
		044	Matchar	Cr	n.d.	
		×00		Br	n.d.	
				Pb	10100	
				Cd	n.d.	
	2	Section 2	Composite Material	n.a.	Refer to No.1 of Table 6	
			Material	Cr	n.d.	
		- CCN (1502)		Br	r n.d. - 3800 - n.d.	
		1 m 1 m		Pb	n.d.	
		Est For	Osmansita	Cd	n.d.	
	3		Composite Material	Hg	n.d.	
		244 V25	material	Cr	n.d.	
				Br	n.d.	
		8		Pb	n.d.	
225***********************************				Cd	n.d.	
	4		Metals	Hg	n.d.	
				Cr	n.d.	
				Br	n.d.	

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Doint Apolysia	No.	Figuro	Material	X-ray Screening		
Point Analysis	INO.	Figure	Туре	Element	Data	Note
				Pb	n.d.	
				Cd	n.d.	
	5		Composite Material	Hg	n.d.	
		22 1	Material	Cr	n.d.	
				Br	n.d.	

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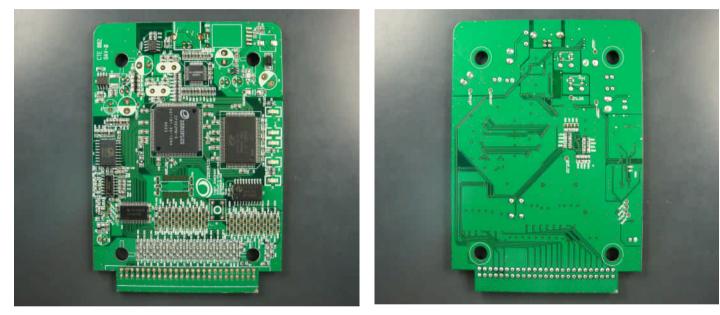
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Figure 4 The pictures of the PCB (CX/2009/40349-3.1)



Top side of the PCB (CX/2009/40349-3.1)

Bottom side of the PCB (CX/2009/40349-3.1)

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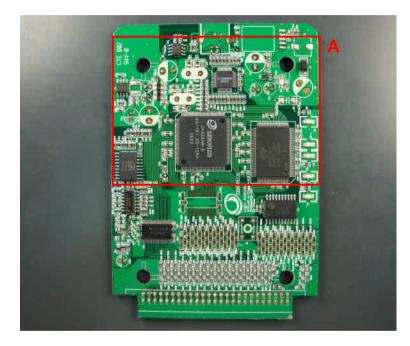
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Figure 5 The figure with letter and frame shows the mapping areas on top side of the PCB (CX/2009/40349-3.1)



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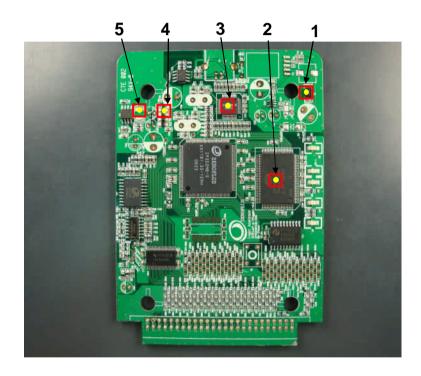
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Figure 6 The figure shows the selected positions of the top side of the PCB (CX/2009/40349-3.1) for point analysis



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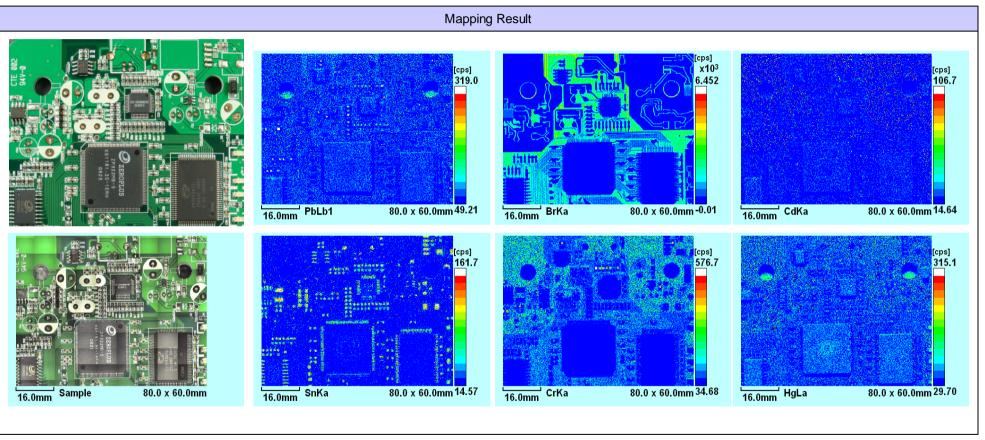
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Table 4 Mapping results of area A of the PCB (CX/2009/40349-3.1)



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Table 5 The test results of the top side of the PCB (CX/2009/40349-3.1) by point analysis

Point Analysis		Figure	Material		X-ray Screening	3
			Туре	Element	Data	Note
				Pb	n.d.	
5 4 3 2 1		19.1		Cd	n.d.	
	1		Composite Material	Hg	n.d.	Refer to No.2 of Table 6
			Material	Cr	137	
				Br	11400	
				Br Pb Cd Hg Cr Br Br Pb Cd Cd	n.d.	-
					n.d.	
	2	•	Composite Material	Hg	n.d.	
		N 00		Cr	n.d.	
				Br	n.d.	
			Composite Material	Pb	n.d.	
		minimu		Cd	n.d.	
	3	•		Hg	n.d.	
		0831WGWCHOS-23C	Wateria	Cr	n.d.	
		CTE60USB		Br	n.d.	
				Pb	n.d.	
				Cd	n.d.	
	4		Composite Material	Hg	n.d.	Refer to No.3 of Table 6
			matchal	Cr	n.d.	
				Br	11500	

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Deint Analysia	No.	Material			X-ray Screening	J
Point Analysis	INO.	Figure	Туре	Element	Data	Note
				Pb	n.d.	
				Cd	n.d.	
	5		Metals	Hg	n.d.	
	8			Cr	n.d.	
				Br	n.d.	

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Table 6 The confirming chemcial test results for point analysis on PCBA (Unit: mg/kg)

Type of Components		Description	Figure	Material	Substance	UV	ICP-AES	GC-MS	Note
		Description	i igure	Туре	oubstance	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	Note
					Pb		1790		
					Cd				
			- Las-		Hg				
	1	ELECTRONIC		Composite	Cr			n.d. n.d. n.d. n.d. n.d. n.d. n.d.	
		COMPONENT	1919 4	Material	Br				
			1		Cr(VI)				
and the second se					PBB				
					PBDE			n.d.	
					Pb				
					Cd				
			All marks		Hg				
	2	ELECTRONIC	41.12	Composite	Cr				
	_	COMPONENT		Material	Br				
					Cr(VI)				
					PBB				
and the second					PBDE			n.d.	
					Pb				
Cit manual space			1 ml		Cd				
			and the second		Hg				
	3	ELECTRONIC		Composite	Cr				
	Ū	COMPONENT		Material	Br				
			11.2		Cr(VI)				
					PBB			n.d.	
					PBDE			n.d.	

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Test Item :		MDL (I	mg/kg)		XRF screening	Test method
		Composite Material	Metals	threshold (mg/kg)		
XRF	Pb	50	100	100	500	Mith notonono to
(X-ray	Cd	50	50	50	50	With reference to IEC 62321: 2008
fluorescence)	Hg	50	100	100	500	120 02321. 2000
	Cr	50	100	100	500	
	Br	50	100	n.a.	250	

Test Item (s):	Test method		Facilities
	With reference to IEC 62321: 2008 (For Polymers and Electronics)	2	UV
Cr(VI)	With reference to IEC 62321: 2008 (For Coatings on Metals)	_*	-
Pb/Cd/Hg	With reference to IEC 62321: 2008	2	ICP-AES

Test Item (s):	Unit	Method	MDL
PBBs			
Monobromobiphenyl	mg/kg		5
Dibromobiphenyl	mg/kg		5
Tribromobiphenyl	mg/kg		5
Tetrabromobiphenyl	mg/kg		5
Pentabromobiphenyl	mg/kg		5
Hexabromobiphenyl	mg/kg		5
Heptabromobiphenyl	mg/kg		5
Octabromobiphenyl	mg/kg		5
Nonabromobiphenyl	mg/kg With reference to IEC	With reference to IEC	5
Decabromobiphenyl	mg/kg	62321: 2008.	5
PBDEs		Determination of PBB and	
Monobromodiphenyl ether	mg/kg	PBDE by GC/MS.	5
Dibromodiphenyl ether	mg/kg		5
Tribromodiphenyl ether	mg/kg	1	5
Tetrabromodiphenyl ether	mg/kg		5
Pentabromodiphenyl ether	mg/kg		5
Hexabromodiphenyl ether	mg/kg		5
Heptabromodiphenyl ether			5
Octabromodiphenyl ether	mg/kg		5
Nonabromodiphenyl ether	mg/kg		5
Decabromodiphenyl ether	mg/kg		5

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- 1. mg/kg = ppm
- 2. n.d. = not detected or lower than MDL
- 3. MDL = Method detection limit
- 4. "---" = not conducted
- 5. n.a. = not applicable
- 6. \_\*:
  - Spot-test:
    - Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating;
  - (The tested sample should be further verified by boiling-water-extraction
  - method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

- Negative = Absence of Cr(VI) coating
- Positive = Presence of Cr(VI) coating; the detected concentration in boiling-water-extraction solution
- is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> sample surface area.
- 7. The XRF result of Br for metal sample is conducted from semi-quantitative method of polymer.
- 8. Magnetic samples can not be located on test position and there are breakdown risks on XRF equipment. Therefore, this kind of sample is conducted chemical test directly.
- 9. PCBA, FPC and battery are conducted by chemical test directly.
- 10. \*\*\*--: The item might be exempted from RoHS directive.

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