



## Test Report

Report No.: CX/2013/A0259

Date: 2013/12/27

HIWIN MIKROSYSTEM CORP.  
NO. 7, JINGKE RD., NANTUN DISTRICT, TAICHUNG CITY 40852, TAIWAN

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

Sample Submitted By : HIWIN MIKROSYSTEM CORP.  
Sample Description : AC SERVO DRIVE (驅動器)  
Style/Item No. : D2-04xx-x-xx  
Sample Receiving Date : 2013/10/23, 2013/11/20 and 2013/12/18  
Testing Period : 2013/10/23 to 2013/11/12, 2013/11/20 to 2013/11/29 and 2013/12/18 to 2013/12/20

Test Result(s) : Please refer to next page(s).

Conclusion : Based upon the performed tests by submitted samples, the test results comply with the limits of RoHS Directive 2011/65/EU with the exempted materials below according to the declaration from applicant (Directive 2002/95/EC being recast by Directive 2011/65/EU):

1. SILVER COLORED METALLIC NUT (No.2.3) in Table 1: Lead (Pb)  
("6(c), Copper alloy containing up to 4% lead by weight" in Directive 2011/65/EU)
2. ELECTRONIC COMPONENT (No.2.18, No.2.29~No.2.32) in Table 1: Lead (Pb)  
("7(a), Lead in high melting temperature type solders (i.e. lead- based alloys containing 85% by weight or more lead)" in Directive 2011/65/EU)
3. ELECTRONIC COMPONENT (No.6) in Table 6: Lead (Pb)  
("7(c)- I , Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound" in Directive 2011/65/EU)

  
Ellis Wei, Ph.D. / Supervisor  
Signed for and on behalf of  
SGS TAIWAN LTD.  
Chemical Laboratory - Taipei

\* This report is combined with CE/2013/C3154 \*

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### 1. Material Fraction Composition

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

No.	Type of Components	Description	Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
					Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
1	CASE	1.1	SILVER COLORED LABEL WITH BLACK PRINT	Polymers	Pb	n.d.		---		
					Cd	n.d.		---		
		1.2	SILVER COLORED METALLIC SCREW	Metals	Hg	n.d.	Positive	---		*3
					Cr	5240		---		
					Br	n.d.		---		
					Cr(VI)			---		
					PBB			---		
					PBDE			---		
					Pb	n.d.		---		
					Cd	n.d.		---		
					Hg	n.d.		---		
					Cr	5240		---		
		1.2	PLATING LAYER OF SILVER COLORED METAL SCREW (CE/2013/C3154 No.1)	Metals	Br	n.d.		---		*5
					Cr(VI)			---		
					PBB			---		
					PBDE			---		
					Pb	---		---		
					Cd	---		---		
					Hg	---		---		
					Cr	---		---		
					Br	---		---		
					Cr(VI)		363	---		
					PBB			---		
					PBDE			---		

No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note	
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
1	CASE	1.3	SILVER COLORED METALLIC WASHER		Metals	Pb	n.d.	Positive	---		*3	
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	7340					---
						Br	n.d.					
						Cr(VI)						
						PBB						
						PBDE			---			
			PLATING LAYER OF SILVER COLORED METAL WASHER (CE/2013/C3154 No.3)		Metals	Pb	---	364	---		*5	
						Cd	---		---			
						Hg	---		---			
						Cr	---					---
						Br	---					
						Cr(VI)						
						PBB						
						PBDE			---			
		1.4	SILVER COLORED METALLIC WASHER		Metals	Pb	n.d.	Positive	---		*3	
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	7600					---
						Br	n.d.					
						Cr(VI)						
						PBB						
						PBDE			---			
			PLATING LAYER OF SILVER COLORED METAL WASHER (CE/2013/C3154 No.2)		Metals	Pb	---	386	---		*5	
						Cd	---		---			
						Hg	---		---			
						Cr	---					---
						Br	---					
						Cr(VI)						
						PBB						
						PBDE			---			

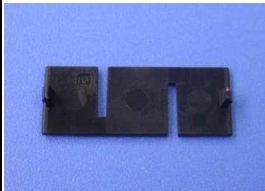




No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
1	CASE	1.5	WHITE LABEL WITH BLACK PRINT		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
	Hg					n.d.	---				
	Cr					n.d.					
	Br					n.d.					
	Cr(VI)								---		
	PBB										
	PBDE								---		
	1.6	BLACK METALLIC SCREW		Metals	Pb	n.d.		---			
					Cd	n.d.		---			
					Hg	n.d.		---			
					Cr	n.d.					
					Br	n.d.					
					Cr(VI)						---
					PBB						
					PBDE						---
	1.7	BLACK/GREEN LABEL		Polymers	Pb	n.d.		---			
					Cd	n.d.		---			
					Hg	n.d.		---			
					Cr	n.d.					
					Br	n.d.					
					Cr(VI)						---
					PBB						
					PBDE						---
	1.8	BEIGE PLASTIC FRAME		Polymers	Pb	n.d.		---			
					Cd	n.d.		---			
					Hg	n.d.		---			
					Cr	n.d.					
Br					705						
Cr(VI)						---					
PBB											n.d.
PBDE								n.d.			



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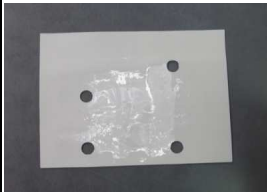


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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
1	CASE	1.9	BLACK PLASTIC CAP		Polymers	Pb	n.d.		---		
	Cd					n.d.	---				
	Hg					n.d.	---				
	Cr					n.d.					
	Br					n.d.					
	Cr(VI)										
	PBB										
	PBDE										
	CASE	1.10.1	IVORY PLASTIC FRAME		Polymers	Pb	n.d.		---		
	Cd					n.d.	---				
	Hg					n.d.	---				
	Cr					n.d.					
	Br					n.d.					
	Cr(VI)										
	PBB										
	PBDE										
		1.10.2	IRON COLORED METALLIC LEAF SPRING		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	175000				
						Br	n.d.		Negative		
						Cr(VI)					
						PBB					
						PBDE					
		1.10.3	SILVER COLORED METALLIC PIN		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)					
						PBB					
						PBDE					








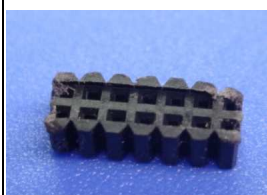
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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note		
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE			
1	CASE	1.11	BLACK PLASTIC CASE		Polymers	Pb	n.d.	---	---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)						---	
						PBB							
						PBDE			---				
		1.12	BLACK METALLIC SCREW		Metals	Pb	n.d.	---	---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
	Br					n.d.							
	Cr(VI)						---						
	PBB												---
	PBDE								---				
	1.13	BRASS METALLIC SCREW		Metals	Pb	380	---	---					
					Cd	n.d.		---					
					Hg	n.d.		---					
					Cr	n.d.							
					Br	n.d.							
					Cr(VI)						---		
					PBB								---
					PBDE			---					
	1.14	SILVER COLORED METALLIC SCREW		Metals	Pb	n.d.	---	---					
					Cd	n.d.		---					
					Hg	n.d.		---					
					Cr	164							
					Br	n.d.							
					Cr(VI)						---		
					PBB								---
					PBDE			---					

No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
1	CASE	1.15	SILVER COLORED METALLIC WASHER		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.	---			
						Cr(VI)					
						PBB				---	
						PBDE				---	
		1.16	SILVER COLORED METALLIC WASHER		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.	---			
						Cr(VI)					
						PBB				---	
						PBDE				---	
		1.17	GRAY POLYMER FILM		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.	---			
						Cr(VI)					
						PBB				---	
						PBDE				---	
		1.18	BLACK PLASTIC SHEET		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	70300	---			
						Cr(VI)					
						PBB				n.d.	
						PBDE				n.d.	

No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
1	CASE	1.19	SILVER COLORED METALLIC NUT		Metals	Pb	n.d.	Negative	---	---	
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	573				
						Br	n.d.				
						Cr(VI)					
						PBB				---	
						PBDE				---	
		1.20	SILVER COLORED METALLIC CASE		Metals	Pb	n.d.		---	---	
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	
2	PCBA	2.1	PCBA		Composite Material	Pb	---		---	---	Refer to Table 2~3
						Cd	---		---		
						Hg	---		---		
						Cr	---				
						Br	---				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	
		2.2	WHITE LABEL WITH BLACK PRINT		Polymers	Pb	n.d.		---	---	
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	

No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note	
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
2		2.3	SILVER COLORED METALLIC NUT		Metals	Pb	17400		*2			
						Cd	n.d.					
						Hg	n.d.					
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)						
						PBB			---			
						PBDE				---		
		2.4	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---			
						Cd	n.d.					
						Hg	n.d.					
						Cr	n.d.					
						Br	70300					
						Cr(VI)						
						PBB			---			
						PBDE				n.d.		
		2.5	GOLDEN COLORED METALLIC PIN		Metals	Pb	n.d.		---			
						Cd	n.d.					
						Hg	n.d.					
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)						
						PBB			---			
						PBDE				---		
		2.6	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---			
						Cd	n.d.					
						Hg	n.d.					
						Cr	n.d.					
						Br	9070					
						Cr(VI)						
						PBB			---			
						PBDE				n.d.		

No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
2	PCBA	2.7	GOLDEN COLORED METALLIC PIN		Metals	Pb	n.d.		---		
	Cd					n.d.	---				
	Hg					n.d.	---				
	Cr					n.d.					
	Br					n.d.					
	Cr(VI)										
	PBB								---		
	PBDE								---		
	PCBA	2.8.1	SILVER COLORED METALLIC FRAME		Metals	Pb	n.d.		---		
	Cd					n.d.	---				
	Hg					n.d.	---				
	Cr					n.d.					
	Br					n.d.					
	Cr(VI)										
	PBB								---		
	PBDE								---		
		2.8.2	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---		
	Cd					n.d.	---				
	Hg					n.d.	---				
	Cr					n.d.					
	Br					53200					
	Cr(VI)										
	PBB								n.d.		
	PBDE								n.d.		
		2.8.3	GOLDEN COLORED METALLIC PIN		Metals	Pb	n.d.		---		
	Cd					n.d.	---				
	Hg					n.d.	---				
	Cr					n.d.					
	Br					n.d.					
	Cr(VI)										
	PBB								---		
	PBDE								---		




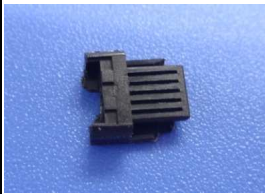



No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
2	PCBA	2.9.1	SILVER COLORED METALLIC FRAME		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)					
						PBB					
						PBDE					
		2.9.2	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	44300				
						Cr(VI)					
						PBB					
						PBDE					
		2.9.3	SILVER COLORED METALLIC PAD		Metals	Pb	544		854		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)					
						PBB					
						PBDE					
		2.9.4	GOLDEN/SILVER COLORED METALLIC PIN		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)					
						PBB					
						PBDE					



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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note	
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
2	PCBA  	2.10.1	SILVER COLORED METALLIC CLAMP 	Metals	Pb	n.d.			---			
					Cd	n.d.						
					Hg	n.d.						
					Cr	n.d.						
					Br	n.d.						
					Cr(VI)							
					PBB							
					PBDE							
			---									
		2.10.2	BLACK PLASTIC HOUSING 	Polymers	Pb	n.d.			---		n.d.	n.d.
					Cd	n.d.						
					Hg	n.d.						
					Cr	n.d.						
					Br	36500						
					Cr(VI)							
					PBB							
	PBDE											
		---										
	2.10.3	SILVER COLORED METALLIC PIN 	Metals	Pb	n.d.			---		---	---	
				Cd	n.d.							
				Hg	n.d.							
				Cr	n.d.							
				Br	n.d.							
				Cr(VI)								
				PBB								
				PBDE								
		---										
	PCBA 	2.11	PCBA 	Composite Material	Pb	---			---		---	Refer to Table 4
					Cd	---						
					Hg	---						
					Cr	---						
					Br	---						
Cr(VI)												
PBB												
PBDE												
		---										




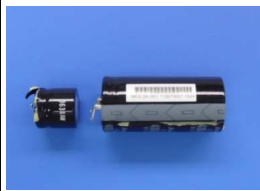


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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note	
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
2	PCBA	2.12	ELECTRONIC COMPONENT		Composite Material	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.		---			
						Br	34600					
						Cr(VI)						
						PBB				n.d.		
						PBDE				n.d.		
		2.13	ELECTRONIC COMPONENT		Composite Material	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	8130		---			
						Br	n.d.	n.d.				
						Cr(VI)						
						PBB				---		
						PBDE				---		
		2.14	ELECTRONIC COMPONENT		Composite Material	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	354		---			
						Br	n.d.					
						Cr(VI)						
						PBB				---		
						PBDE				---		
		2.15	ELECTRONIC COMPONENT		Composite Material	Pb	n.d.		---			
						Cd	85		n.d.			
						Hg	n.d.		---			
						Cr	419		---			
						Br	159					
						Cr(VI)						
						PBB				---		
						PBDE				---		

No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note		
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE			
2	PCBA	2.16	ELECTRONIC COMPONENT		Composite Material	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)						---	
						PBB							---
						PBDE							---
						2.17	BLACK PLASTIC SHEET					Polymers	Pb
		Cd	n.d.	---									
		Hg	n.d.	---									
		Cr	n.d.										
		Br	n.d.										
		Cr(VI)			---								
		PBB						---					
		PBDE						---					
		2.18	ELECTRONIC COMPONENT		Composite Material			Pb		80500			*2
						Cd	127	n.d.					
	Hg					n.d.	---						
	Cr					3780							
	Br					n.d.							
	Cr(VI)							n.d.					
	PBB								---				
	PBDE								---				
2.19	ELECTRONIC COMPONENT						Composite Material	Pb	n.d.			---	
		Cd	n.d.	---									
		Hg	n.d.	---									
		Cr	n.d.										
		Br	6860										
		Cr(VI)			---								
PBB		n.d.											
PBDE		n.d.											

No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note	
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
2	PCBA	2.20	ELECTRONIC COMPONENT		Composite Material	Pb	n.d.	n.d.	---			
	Cd					n.d.	---					
	Hg					n.d.	---					
	Cr					632						
	Br					n.d.						
	Cr(VI)								---			
	PBB								---			
	PBDE								---			
	PCBA	2.21.1	WHITE LABEL WITH BLACK PRINT		Polymers	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)			---			
						PBB				---		
						PBDE				---		
		2.21.2	BLACK PLASTIC COVER WITH WHITE PRINT		Polymers	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)			---			
						PBB				---		
						PBDE				---		
	2.21.3	SILVER COLORED METALLIC COVER		Metals	Pb	n.d.		---				
					Cd	n.d.		---				
					Hg	n.d.		---				
					Cr	n.d.						
					Br	n.d.						
					Cr(VI)			---				---
					PBB				---			
					PBDE				---			







No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note	
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
2	PCBA	2.21.4	TRANSLUCENT FILM		Polymers	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.	---		---		
						Cr(VI)						
						PBB						
	PBDE			---								
		2.21.5	GRAY METALLIC FOIL		Metals	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.	---		---		
						Cr(VI)						
						PBB						
	PBDE			---								
		2.21.6	GRAY FILM		Polymers	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.	---		---		
						Cr(VI)						
						PBB						
	PBDE			---								
		2.21.7	BROWN FILM		Polymers	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.	---		---		
Cr(VI)												
PBB												
PBDE			---									

No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note		
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE			
2	PCBA	2.21.8	SILVER COLORED METALLIC SHEET		Metals	Pb	n.d.		---				
	Cd					n.d.	---						
	Hg					n.d.	---						
	Cr					n.d.							
	Br					n.d.							
	Cr(VI)												
	PBB												
	PBDE												
		2.21.9	BROWN SEAL		Polymers	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)							
						PBB							
						PBDE							
		2.22.1	BROWN PLASTIC COVER WITH WHITE PRINT		Polymers	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	63						
						Br	n.d.						
						Cr(VI)							
						PBB							
						PBDE							
		2.22.2	SILVER COLORED METALLIC COVER		Metals	Pb	n.d.		---				
						Cd	n.d.		---				
						Hg	n.d.		---				
						Cr	n.d.						
						Br	n.d.						
						Cr(VI)							
						PBB							
						PBDE							

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
2	PCBA	2.22.3	BLACK SEAL		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.	---			
						Cr(VI)				---	
						PBB				---	
						PBDE				---	
		2.22.4	TRANSLUCENT FILM		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.	---			
						Cr(VI)				---	
						PBB				---	
						PBDE				---	
		2.22.5	BROWN FILM		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.	---			
						Cr(VI)				---	
						PBB				---	
						PBDE				---	
		2.22.6	GRAY METALLIC FOIL		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.	---			
						Cr(VI)				---	
						PBB				---	
						PBDE				---	

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
2	PCBA	2.22.7	SILVER COLORED METALLIC PIN		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	158				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	
	PCBA	2.23.1	COPPER COLORED METALLIC SHEET		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	
		2.23.2	TRANSPARENT LABEL WITH BLACK PRINT		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	
		2.23.3	YELLOW TAPE		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	61900				
						Cr(VI)		---			
						PBB				n.d.	
						PBDE				n.d.	







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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
2	PCBA	2.23.4	TRANSLUCENT PLASTIC JACKET		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)					
						PBB					
						PBDE					
		2.23.5	COPPER COLORED METALLIC WIRE		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	1880				
						Cr(VI)					
						PBB					
						PBDE					
		2.23.6	COPPER COLORED METALLIC WIRE		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	1250				
						Cr(VI)					
						PBB					
						PBDE					
		2.23.7	ORANGE METALLIC WIRE		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	158				
						Cr(VI)					
						PBB					
						PBDE					

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
2	PCBA	2.23.8	BLACK PLASTIC FRAME		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
		2.23.9	BLACK CORE		Composite Material	Hg	n.d.		---		
						Cr	n.d.		---		
	PCBA	2.24.1	WHITE LABEL WITH BLACK PRINT		Polymers	Br	n.d.		---		
						Cr(VI)			---		
		2.24.2	IVORY PLASTIC HOUSING		Polymers	PBB			---		
						PBDE			---		








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## Test Report





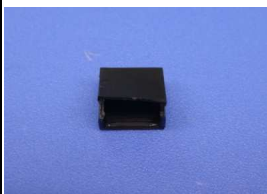

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
2	PCBA	2.24.3	SILVER COLORED METALLIC PIN		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE		---			
		2.24.4	IVORY PLASTIC HOUSING		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE		---			
		2.24.5	SILVER COLORED METALLIC LEAF SPRING		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	168000				
						Br	n.d.				
						Cr(VI)		Negative			
						PBB				---	
						PBDE		---			
		2.24.6	SILVER COLORED METALLIC PIN		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	254				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE		---			

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
2	PCBA 	2.25.1	IVORY PLASTIC HOUSING		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	60				
						Cr(VI)					
		PBB		---							
		PBDE		---							
		2.25.2	SILVER COLORED METALLIC PIN		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
	Br					n.d.					
	Cr(VI)						---				
	PBB		---								
	PBDE		---								
	PCBA 	2.26.1	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)					
		PBB		---							
		PBDE		---							
		2.26.2	WHITE FABRIC THREAD		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
	Br					n.d.					
	Cr(VI)						---				
	PBB		---								
	PBDE		---								

## Test Report


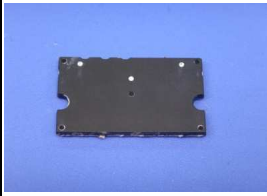
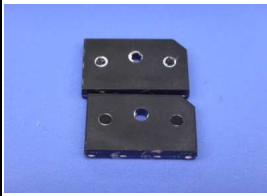

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note	
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
2	PCBA 	2.26.3	SILVER COLORED METALLIC WIRE		Metals	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)						---
						PBB						
						PBDE						---
		2.26.4	SILVER COLORED METALLIC PIN		Metals	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)						---
						PBB						
						PBDE						---
	2.26.5	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---				
					Cd	n.d.		---				
					Hg	n.d.		---				
					Cr	n.d.						
					Br	n.d.						
					Cr(VI)						---	
					PBB							---
					PBDE						---	
	PCBA 	2.27.1	GOLDEN COLORED METALLIC PIN		Metals	Pb	n.d.		---			
						Cd	n.d.		---			
						Hg	n.d.		---			
						Cr	n.d.					
						Br	n.d.					
						Cr(VI)						---
						PBB						
						PBDE						---







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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
2	PCBA	2.27.2	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	51900	---			
						Cr(VI)				n.d.	
						PBB				n.d.	
						PBDE					
	PCBA	2.28	ELECTRONIC COMPONENT		Composite Material	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.	---			
						Cr(VI)				---	
						PBB				---	
						PBDE				---	
		2.29	ELECTRONIC COMPONENT		Composite Material	Pb	7970		*2		
						Cd	130		n.d.		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	1730	---			
						Cr(VI)				n.d.	
						PBB				n.d.	
						PBDE					
		2.30	ELECTRONIC COMPONENT		Composite Material	Pb	38400		*2		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.	---			
						Cr(VI)				---	
						PBB				---	
						PBDE				---	

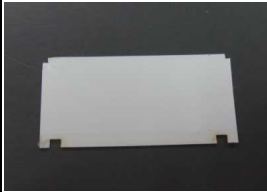













No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
2	PCBA	2.31	ELECTRONIC COMPONENT		Composite Material	Pb	21000		*2		
	Cd					n.d.	---				
	Hg					n.d.	---				
	Cr					n.d.					
	Br					747					
	Cr(VI)										
	PBB								n.d.		
	PBDE								n.d.		
		2.32	ELECTRONIC COMPONENT		Composite Material	Pb	60200		*2		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)					
						PBB				---	
						PBDE				---	
		2.33	PCBA		Composite Material	Pb	---		---		Refer to Table 5
						Cd	---		---		
						Hg	---		---		
						Cr	---				
						Br	---				
						Cr(VI)					
						PBB				---	
						PBDE				---	
		2.34	WHITE LABEL WITH BLACK PRINT		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)					
						PBB				---	
						PBDE				---	

No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
2	PCBA	2.35	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	66000				
						Cr(VI)					
						PBB					
						PBDE					
		2.36	GOLDEN COLORED METALLIC PIN		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)					
						PBB					
						PBDE					
		2.37	BLACK PLASTIC BUTTON		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)					
						PBB					
						PBDE					
		2.38	SILVER COLORED TAPE		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	259				
						Br	n.d.				
						Cr(VI)					
						PBB					
						PBDE					

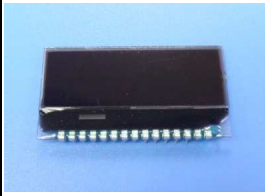



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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
2	PCBA	2.39	WHITE FILM WITH ADHESIVE		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
		2.40	WHITE FILM WITH ADHESIVE		Polymers	Hg	n.d.		---		
						Cr	n.d.		---		
		2.41	TRANSLUCENT PLASTIC CAP		Polymers	Br	74				
						Cr(VI)					
		2.42	BLACK TAPE		Polymers	PBB					
						PBDE					
		2.41	TRANSLUCENT PLASTIC CAP		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
		2.42	BLACK TAPE		Polymers	Hg	n.d.		---		
						Cr	n.d.		---		
		2.41	TRANSLUCENT PLASTIC CAP		Polymers	Br	n.d.				
						Cr(VI)					
		2.42	BLACK TAPE		Polymers	PBB					
						PBDE					
		2.41	TRANSLUCENT PLASTIC CAP		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
		2.42	BLACK TAPE		Polymers	Hg	n.d.		---		
						Cr	70		---		
		2.41	TRANSLUCENT PLASTIC CAP		Polymers	Br	n.d.				
						Cr(VI)					
		2.42	BLACK TAPE		Polymers	PBB					
						PBDE					

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
2	PCBA	2.43	LCD PANEL		Composite Material	Pb	n.d.		---		
	Cd					n.d.	---				
	Hg					n.d.	---				
	Cr					n.d.					
	Br					n.d.					
	Cr(VI)										
	PBB										
	PBDE										
	2.44	ELECTRONIC COMPONENT		Composite Material	Pb	n.d.		---			
					Cd	n.d.		---			
					Hg	n.d.		---			
					Cr	n.d.					
					Br	19200					
					Cr(VI)						
					PBB						
					PBDE						
	2.45.1	SILVER COLORED METALLIC SHEET		Metals	Pb	n.d.		---			
					Cd	n.d.		---			
					Hg	n.d.		---			
					Cr	n.d.					
					Br	n.d.					
					Cr(VI)						
					PBB						
					PBDE						
	2.45.2	SILVER COLORED METALLIC PAD		Metals	Pb	n.d.		---			
					Cd	n.d.		---			
					Hg	n.d.		---			
					Cr	n.d.					
					Br	n.d.					
					Cr(VI)						
					PBB						
					PBDE						

## Test Report









Report No.: CX/2013/A0259

Date: 2013/12/27

No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
2	PCBA	2.45.3	LT. BROWN PAD		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.	---			
						Cr(VI)					
						PBB				---	
						PBDE				---	
		2.45.4	SILVER COLORED METALLIC LEAF SPRING		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	161000				
						Br	n.d.	Negative			
						Cr(VI)					
						PBB				---	
						PBDE				---	
		2.45.5	SILVER COLORED METALLIC PIN		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.	---			
						Cr(VI)					
						PBB				---	
						PBDE				---	
		2.45.6	BLACK PLASTIC PAD		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.	---			
						Cr(VI)					
						PBB				---	
						PBDE				---	





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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
3	KIT	3.1.1	SILVER COLORED METALLIC SCREW		Metals	Pb	n.d.	Negative	---	---	
						Cd	n.d.		---		
		3.1.2	BLACK PLASTIC HOUSING		Polymers	Hg	n.d.	---	---	---	
						Cr	141000		---		
		3.1.3	SILVER COLORED METALLIC SCREW		Metals	Br	n.d.	Negative	---	---	
						Cr(VI)			---		
		3.1.4	SILVER COLORED METALLIC NUT		Metals	PBB		Negative	---	---	
						PBDE			---		
		3.1.1	SILVER COLORED METALLIC SCREW		Metals	Pb	n.d.	Negative	---	---	
						Cd	n.d.		---		
		3.1.2	BLACK PLASTIC HOUSING		Polymers	Hg	n.d.	---	---	---	
						Cr	141000		---		
		3.1.3	SILVER COLORED METALLIC SCREW		Metals	Br	n.d.	Negative	---	---	
						Cr(VI)			---		
		3.1.4	SILVER COLORED METALLIC NUT		Metals	PBB		Negative	---	---	
						PBDE			---		

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No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
3	KIT	3.1.5	SILVER COLORED METALLIC SHEET		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
	Hg					n.d.	---				
	Cr					n.d.					
	Br					n.d.					
	Cr(VI)								---		
	PBB							---			
	PBDE							---			
	3.1.6	SILVER COLORED METALLIC WASHER		Metals	Pb	n.d.		---			
					Cd	n.d.		---			
					Hg	n.d.		---			
					Cr	n.d.					
					Br	n.d.					
					Cr(VI)						---
					PBB			---			
					PBDE			---			
	3.1.7	SILVER COLORED METALLIC WASHER		Metals	Pb	n.d.		---			
					Cd	n.d.		---			
					Hg	n.d.		---			
					Cr	n.d.					
					Br	n.d.					
					Cr(VI)						---
					PBB			---			
					PBDE			---			
	3.1.8	SILVER COLORED METALLIC SCREW		Metals	Pb	n.d.		---			
					Cd	n.d.		---			
					Hg	n.d.		---			
					Cr	n.d.					
					Br	n.d.					
					Cr(VI)						---
					PBB			---			
					PBDE			---			

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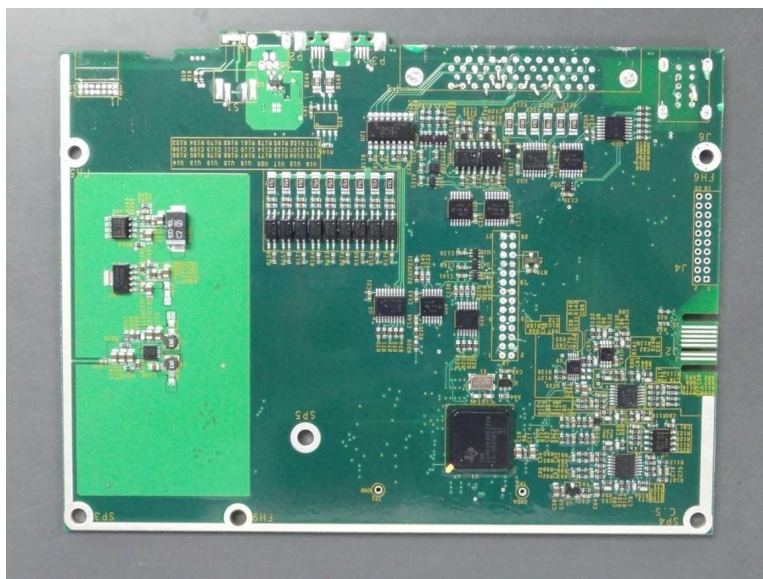
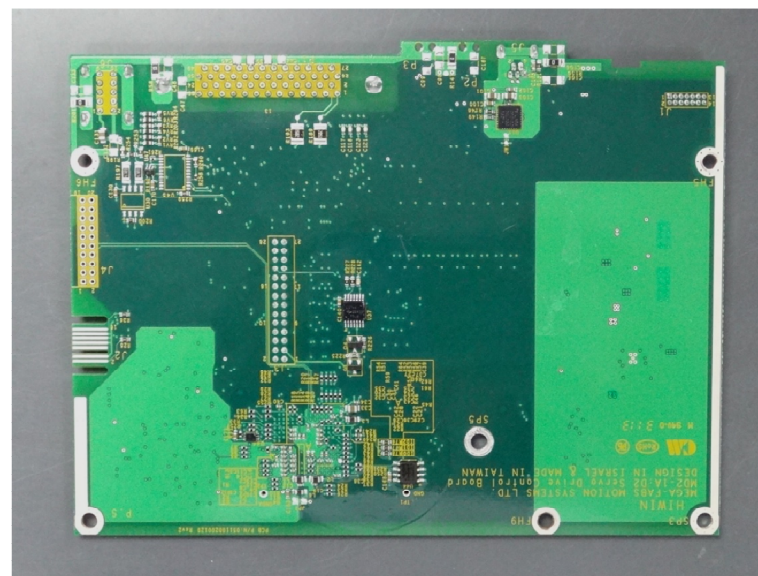
No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
3	KIT	3.2.1	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	58500	---			
						Cr(VI)				n.d.	
						PBB				n.d.	
						PBDE					
		3.2.2	SILVER COLORED METALLIC FRAME		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.	---			
						Cr(VI)				---	
						PBB				---	
						PBDE				---	
		3.2.3	SILVER/GOLDEN COLORED METALLIC PIN		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.	---			
						Cr(VI)				---	
						PBB				---	
						PBDE				---	

Figure 1 The picture(s) of the PCBA (CX/2013/A0259-2.1)



Top side of the PCBA (CX/2013/A0259-2.1)



Bottom side of the PCBA (CX/2013/A0259-2.1)

Figure 2 The figure with letter and frame shows the mapping area(s) on the PCBA (CX/2013/A0259-2.1, Top side)

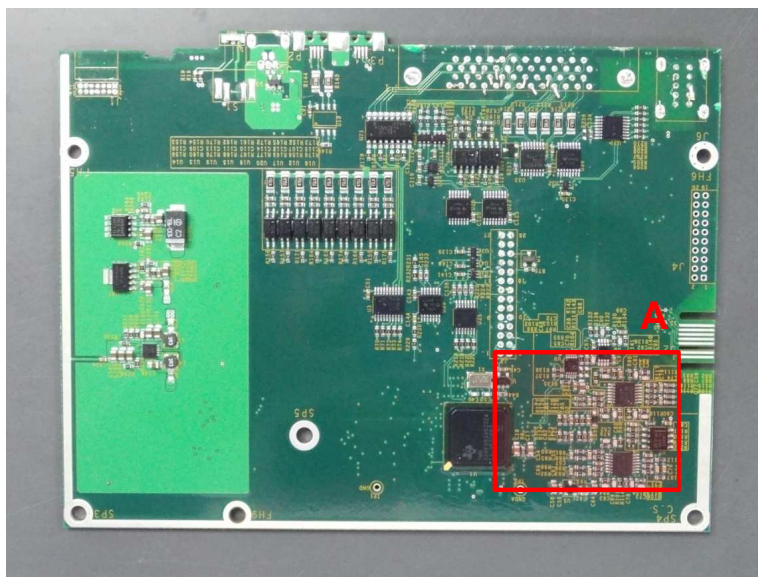


Figure 3 The figure shows the selected positions on the PCBA (CX/2013/A0259-2.1, Top side) for point analysis

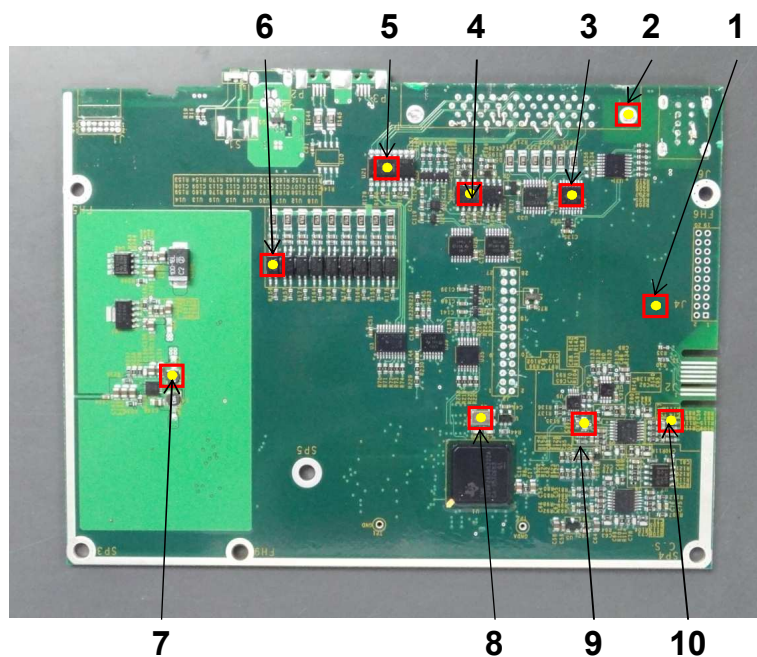




Figure 4 The figure shows the selected positions on the PCBA (CX/2013/A0259-2.1, Bottom side) for point analysis

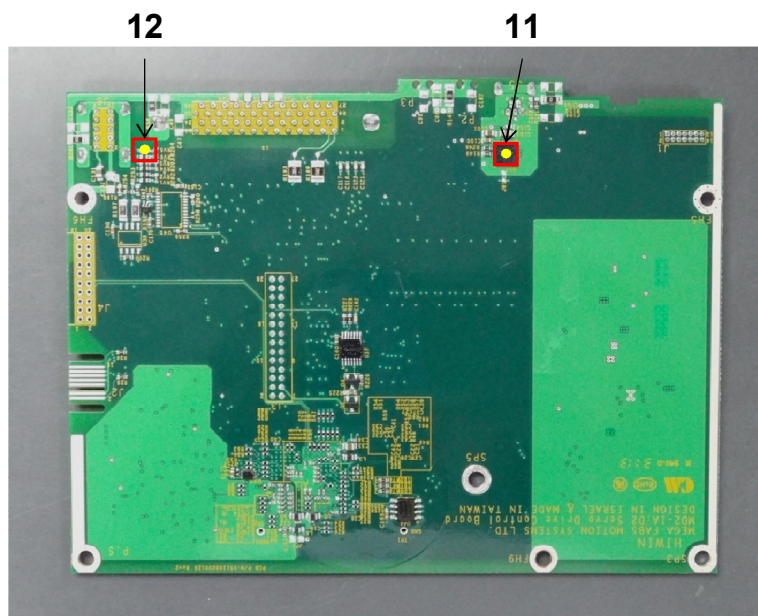


Table 2 Mapping results of area A on the PCBA (CX/2013/A0259-2.1, Top side)

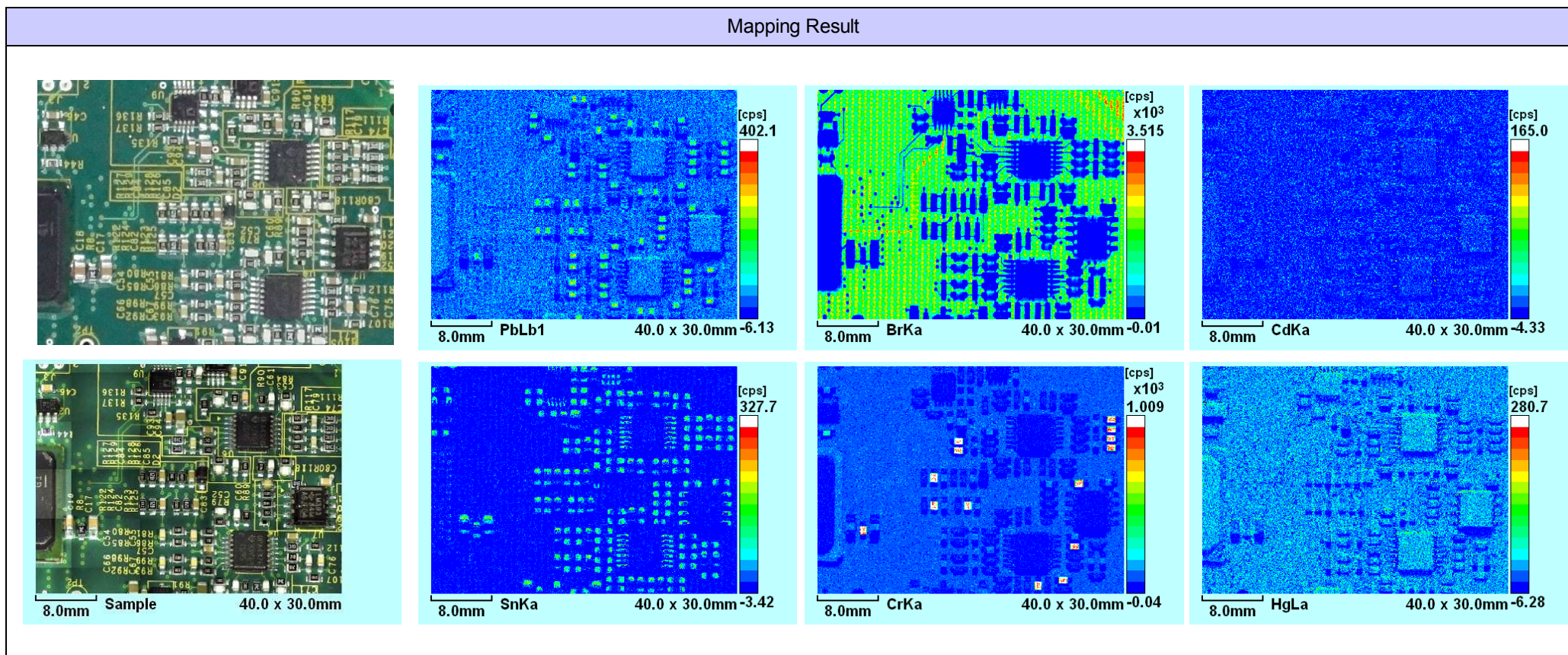
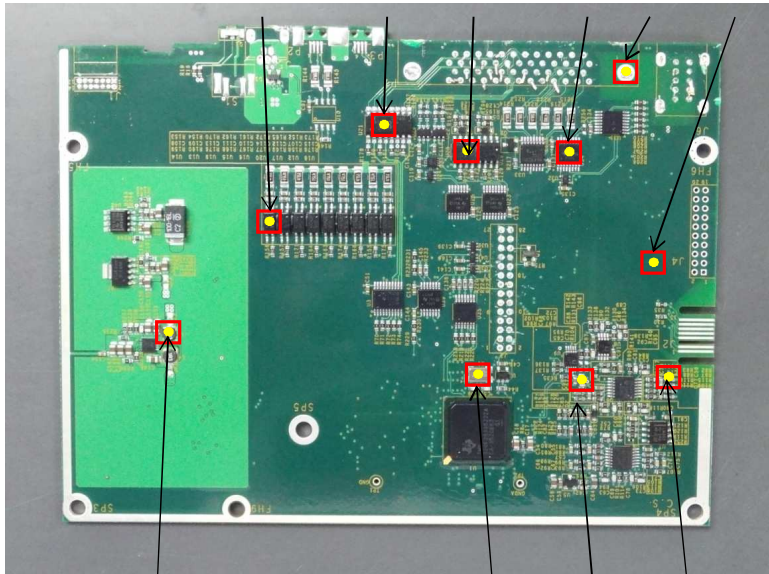
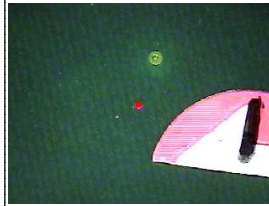
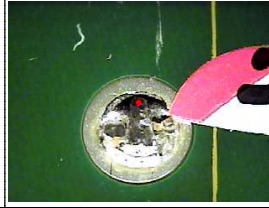
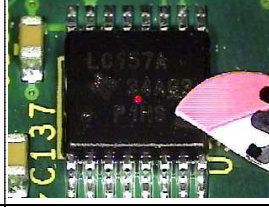
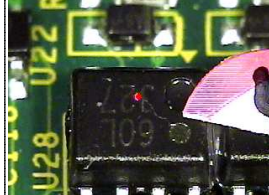


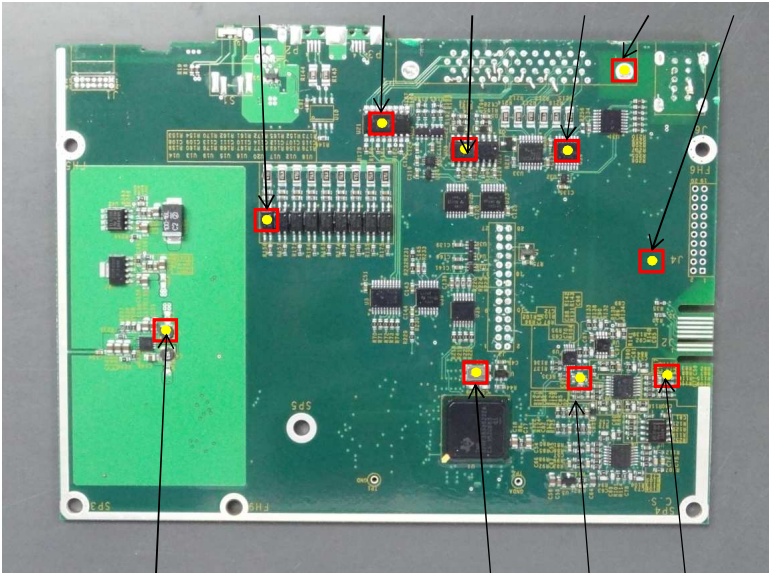
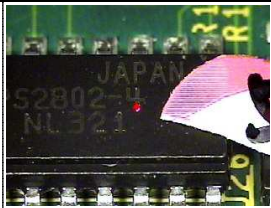
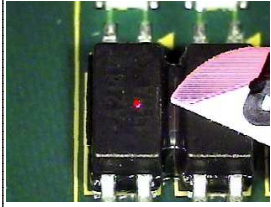
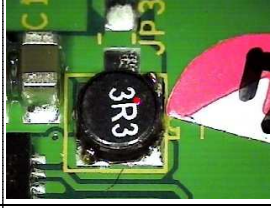
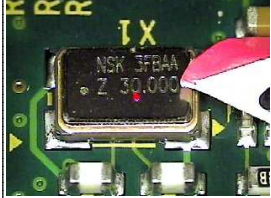
Table 3 The test results on the PCBA (CX/2013/A0259-2.1, Top side and Bottom side) by point analysis (Unit: mg/kg)

Point Analysis	No.	Figure	Material	X-ray Screening		
			Type	Element	Data	Note
	1		Composite Material	Pb	n.d.	Refer to No.1 in Table 6
				Cd	n.d.	
				Hg	n.d.	
				Cr	n.d.	
				Br	60000	
	2		Metals	Pb	461	
				Cd	n.d.	
				Hg	n.d.	
				Cr	n.d.	
				Br	n.d.	
	3		Composite Material	Pb	n.d.	
				Cd	n.d.	
				Hg	n.d.	
				Cr	n.d.	
				Br	n.d.	
	4		Composite Material	Pb	n.d.	Refer to No.2 in Table 6
				Cd	n.d.	
				Hg	n.d.	
				Cr	151	
				Br	20100	

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Point Analysis	No.	Figure	Material Type	X-ray Screening		
				Element	Data	Note
	5		Composite Material	Pb	n.d.	Refer to No.3 in Table 6
				Cd	n.d.	
				Hg	n.d.	
				Cr	n.d.	
				Br	11200	
	6		Composite Material	Pb	n.d.	
				Cd	n.d.	
				Hg	n.d.	
				Cr	n.d.	
				Br	n.d.	
	7		Composite Material	Pb	n.d.	
				Cd	n.d.	
				Hg	n.d.	
				Cr	n.d.	
				Br	n.d.	
	8		Composite Material	Pb	n.d.	Refer to No.4 in Table 6
				Cd	n.d.	
				Hg	n.d.	
				Cr	141	
				Br	382	

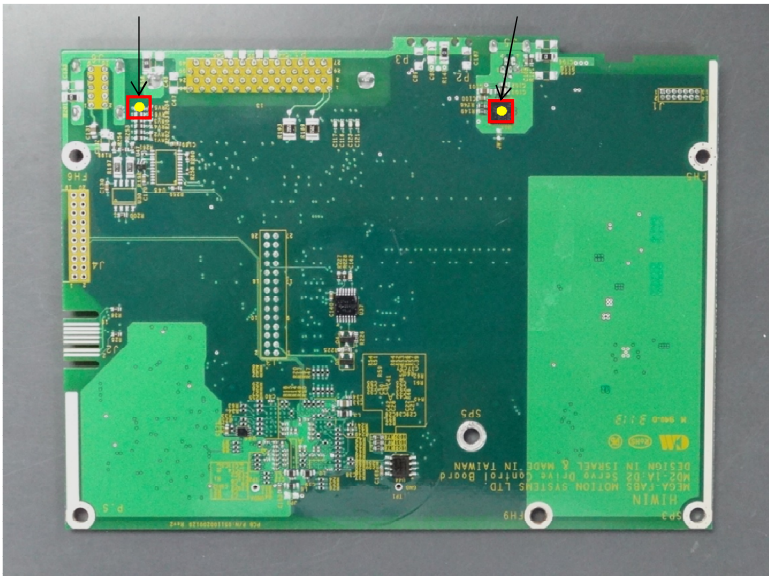
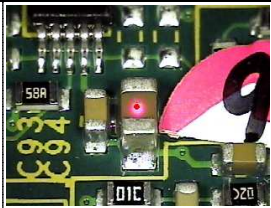
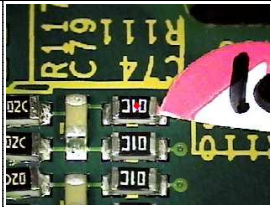
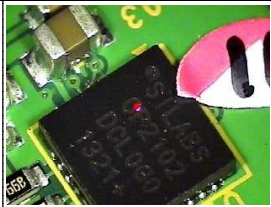

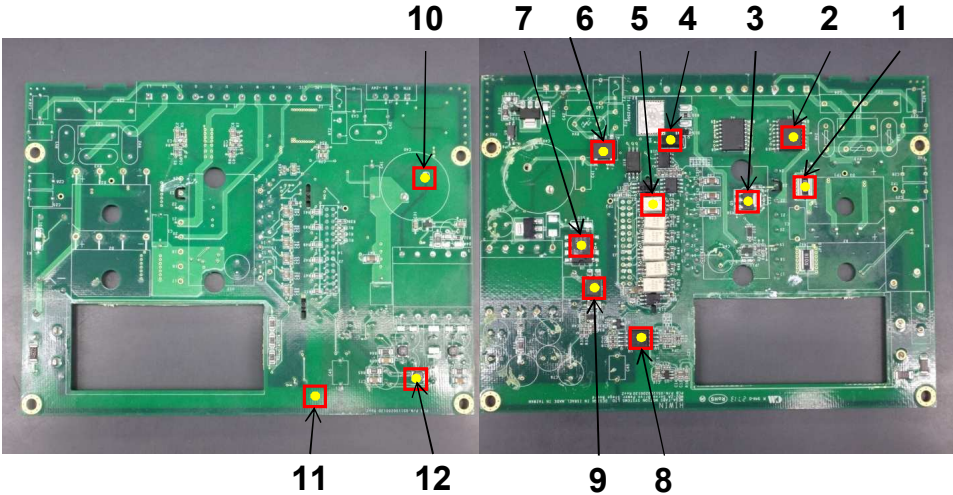
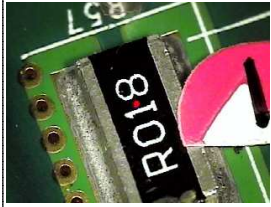

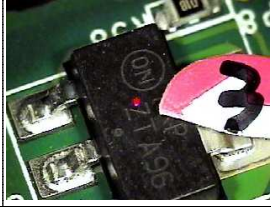
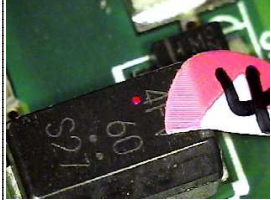
Point Analysis	No.	Figure	Material Type	X-ray Screening		
				Element	Data	Note
	9		Composite Material	Pb	n.d.	Refer to No.5 in Table 6
				Cd	n.d.	
				Hg	n.d.	
				Cr	n.d.	
				Br	289	
	10		Composite Material	Pb	3220	Refer to No.6 in Table 6
				Cd	n.d.	
				Hg	n.d.	
				Cr	34900	
	11		Composite Material	Pb	n.d.	
				Cd	n.d.	
				Hg	n.d.	
				Cr	n.d.	
	12		Composite Material	Pb	313	Refer to No.7 in Table 6
				Cd	n.d.	
				Hg	n.d.	
				Cr	3360	
				Br	383	

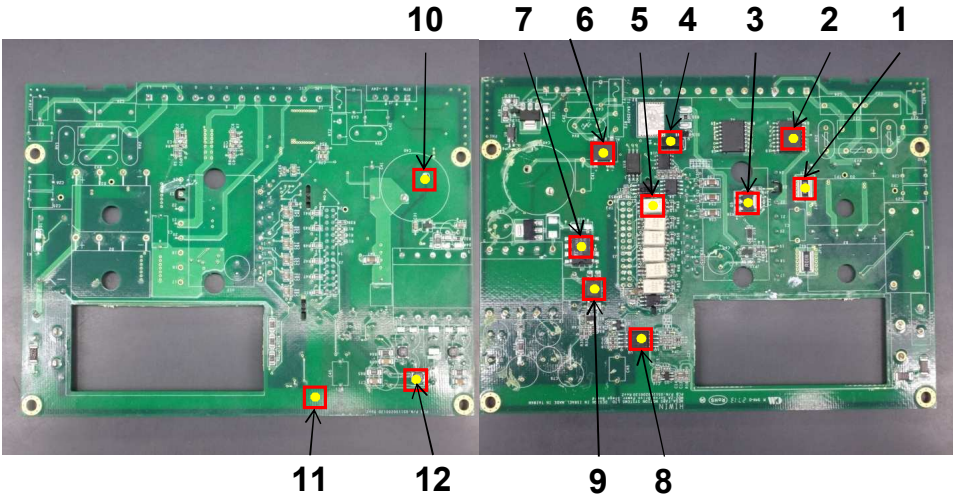

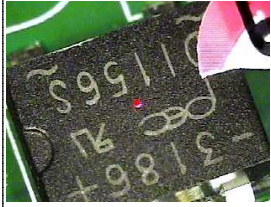
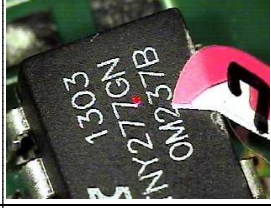

Table 4 The test results on the PCBA (CX/2013/A0259-2.11, Top side and Bottom side) by point analysis (Unit: mg/kg)

Point Analysis	No.	Figure	Material	X-ray Screening		
			Type	Element	Data	Note
	1		Composite Material	Pb	406	Refer to No.8 in Table 6
				Cd	n.d.	
				Hg	n.d.	
				Cr	2090	
				Br	n.d.	
	2		Composite Material	Pb	n.d.	
				Cd	n.d.	
				Hg	n.d.	
				Cr	n.d.	
				Br	n.d.	
	3		Composite Material	Pb	n.d.	
				Cd	n.d.	
				Hg	n.d.	
				Cr	n.d.	
				Br	n.d.	
	4		Composite Material	Pb	191	Refer to No.9 in Table 6
				Cd	n.d.	
				Hg	n.d.	
				Cr	8710	
				Br	n.d.	

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Point Analysis	No.	Figure	Material Type	X-ray Screening		
				Element	Data	Note
	5		Composite Material	Pb	n.d.	Refer to No.10 in Table 6
				Cd	n.d.	
				Hg	n.d.	
				Cr	126	
				Br	15400	
6			Composite Material	Pb	n.d.	
				Cd	n.d.	
				Hg	n.d.	
				Cr	139	
7			Composite Material	Pb	n.d.	
				Cd	n.d.	
				Hg	n.d.	
				Cr	n.d.	
8			Composite Material	Pb	n.d.	Refer to No.11 in Table 6
				Cd	n.d.	
				Hg	n.d.	
				Cr	n.d.	
				Br	19900	

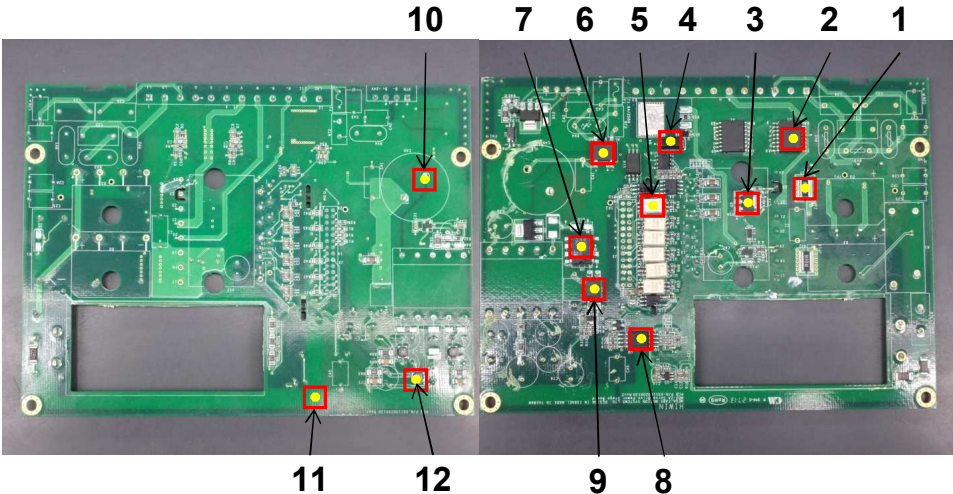
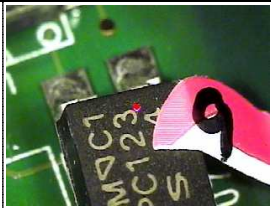


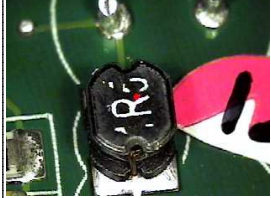
Point Analysis	No.	Figure	Material Type	X-ray Screening		
				Element	Data	Note
	9		Composite Material	Pb	n.d.	Refer to No.12 in Table 6
				Cd	n.d.	
				Hg	n.d.	
				Cr	169	
				Br	20800	
	10		Metals	Pb	411	
				Cd	n.d.	
				Hg	n.d.	
				Cr	n.d.	
				Br	n.d.	
	11		Composite Material	Pb	n.d.	Refer to No.13 in Table 6
				Cd	n.d.	
				Hg	n.d.	
				Cr	n.d.	
				Br	58200	
	12		Composite Material	Pb	n.d.	Refer to No.14 in Table 6
				Cd	n.d.	
				Hg	n.d.	
				Cr	158	
				Br	645	

Table 5 The test results on the PCBA (CX/2013/A0259-2.33, Top side) by point analysis (Unit: mg/kg)

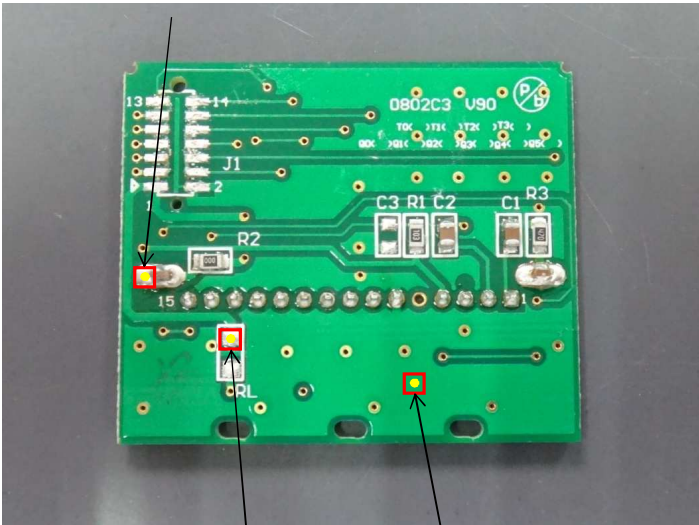


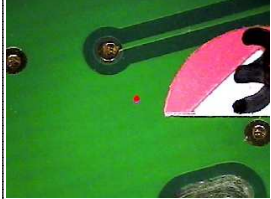
Point Analysis	No.	Figure	Material Type	X-ray Screening		
				Element	Data	Note
	1		Metals	Pb	423	
				Cd	n.d.	
				Hg	n.d.	
				Cr	n.d.	
				Br	n.d.	
	2		Metals	Pb	483	
				Cd	n.d.	
				Hg	n.d.	
				Cr	n.d.	
				Br	n.d.	
	3		Composite Material	Pb	n.d.	Refer to No.15 in Table 6
				Cd	n.d.	
				Hg	n.d.	
				Cr	n.d.	
				Br	427	

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



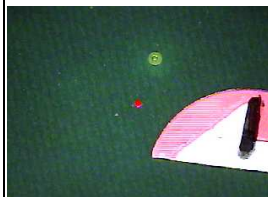
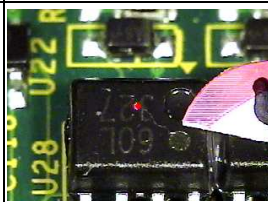
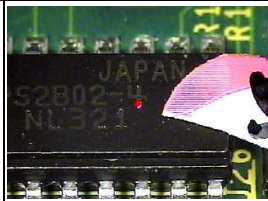

Type of Components	Description		Figure	MDL Category	Substance	UV	ICP-AES	GC-MS	Note	
						Cr (VI)	Pb/Cd/Hg	PBB/PBDE		
 	1	RAW PCB		Composite Material	Pb		---			
					Cd		---			
					Hg		---			
					Cr					
					Br					
					Cr(VI)		---			n.d.
					PBB					n.d.
					PBDE					
	2	ELECTRONIC COMPONENT		Composite Material	Pb		---			
					Cd		---			
					Hg		---			
					Cr					
					Br					
					Cr(VI)		---			n.d.
					PBB					n.d.
					PBDE					
	3	ELECTRONIC COMPONENT		Composite Material	Pb		---			
					Cd		---			
					Hg		---			
					Cr					
					Br					
					Cr(VI)		---			n.d.
					PBB					n.d.
					PBDE					
	4	ELECTRONIC COMPONENT		Composite Material	Pb		---			
					Cd		---			
					Hg		---			
					Cr					
Br										
Cr(VI)					---		n.d.			
PBB							n.d.			
PBDE										



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



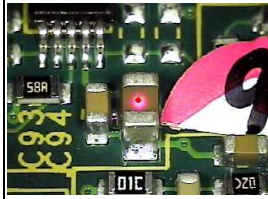

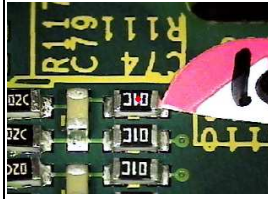
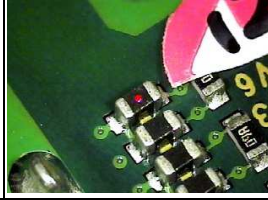
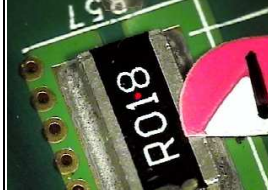
Type of Components	Description		Figure	MDL Category	Substance	UV	ICP-AES	GC-MS	Note
						Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
 	5	ELECTRONIC COMPONENT		Composite Material	Pb		---		
					Cd		---		
Hg	---								
Cr	---								
Br									
Cr(VI)									
PBB			n.d.						
PBDE			n.d.						
	6	ELECTRONIC COMPONENT		Composite Material	Pb		1330		*2
					Cd		---		
Hg	---								
Cr	n.d.								
Br									
Cr(VI)									
PBB			n.d.						
PBDE			n.d.						
	7	ELECTRONIC COMPONENT		Composite Material	Pb		---		
					Cd		---		
Hg	---								
Cr	n.d.								
Br									
Cr(VI)									
PBB			n.d.						
PBDE			n.d.						
	8	ELECTRONIC COMPONENT		Composite Material	Pb		---		
					Cd		---		
Hg	---								
Cr	n.d.								
Br									
Cr(VI)									
PBB			---						
PBDE			---						

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


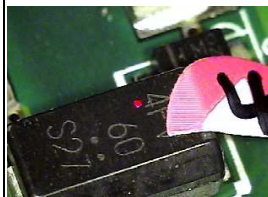

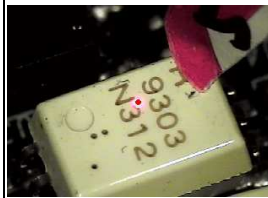


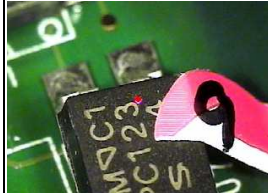



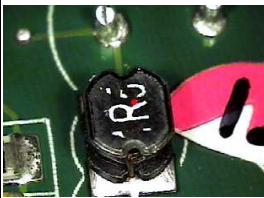

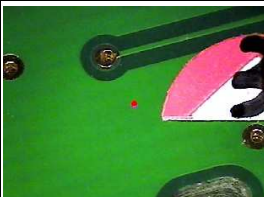
Type of Components	Description		Figure	MDL Category	Substance	UV	ICP-AES	GC-MS	Note
						Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
	9	ELECTRONIC COMPONENT		Composite Material	Pb		---		
					Cd		---		
					Hg		---		
					Cr				
					Br				
					Cr(VI)	n.d.			
					PBB			---	
					PBDE			---	
	10	ELECTRONIC COMPONENT		Composite Material	Pb		---		
					Cd		---		
					Hg		---		
					Cr				
					Br				
					Cr(VI)	---			
					PBB			n.d.	
					PBDE			n.d.	
	11	ELECTRONIC COMPONENT		Composite Material	Pb		---		
					Cd		---		
					Hg		---		
					Cr				
					Br				
					Cr(VI)	---			
					PBB			n.d.	
					PBDE			n.d.	
	12	ELECTRONIC COMPONENT		Composite Material	Pb		---		
					Cd		---		
					Hg		---		
					Cr				
					Br				
					Cr(VI)	---			
					PBB			n.d.	
					PBDE			n.d.	

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

Type of Components	Description		Figure	MDL Category	Substance	UV	ICP-AES	GC-MS	Note					
						Cr (VI)	Pb/Cd/Hg	PBB/PBDE						
	13	RAW PCB		Composite Material	Pb		---							
Cd					---									
Hg					---									
Cr														
Br										---				
Cr(VI)														
PBB							n.d.							
PBDE							n.d.							
	14	ELECTRONIC COMPONENT		Composite Material	Pb		---							
Cd					---									
Hg					---									
Cr														
Br										---				
Cr(VI)														
PBB							n.d.							
PBDE							n.d.							
	15	RAW PCB		Composite Material	Pb		---							
Cd					---									
Hg					---									
Cr														
Br										---				
Cr(VI)														
PBB							n.d.							
PBDE							n.d.							



## Test Report

Report No.: CX/2013/A0259

Date: 2013/12/27

Test Item :	MDL (mg/kg)				XRF screening threshold (mg/kg)	Test method
XRF (X-ray fluorescence)	Category Element	Polymers	Composite Material	Metals	500 50 500 500 500 250	With reference to IEC 62321-3-1: 2013
	Pb	50	100	100		
	Cd	50	50	50		
	Hg	50	100	100		
	Cr	50	100	100		
	Br	50	100	n.a.		

Test Item (s):	Test method	MDL (mg/kg)	Facilities
Cr(VI)	With reference to IEC 62321: 2008 (For Polymers and Electronics)	2	UV
	With reference to IEC 62321: 2008 (For Coatings on Metals)	*	-
Pb/Cd	With reference to IEC 62321-5: 2013	2	ICP-AES
Hg	With reference to IEC 62321-4: 2013	2	ICP-AES

Test Item (s):	Unit	Method	MDL (mg/kg)
<b>PBBs</b>			
Monobromobiphenyl	mg/kg	With reference to IEC 62321: 2008. Determination of PBB and PBDE by GC/MS.	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		5
Decabromobiphenyl	mg/kg		5
<b>PBDEs</b>			
Monobromodiphenyl ether	mg/kg		5
Dibromodiphenyl ether	mg/kg		5
Tribromodiphenyl ether	mg/kg		5
Tetrabromodiphenyl ether	mg/kg		5
Pentabromodiphenyl ether	mg/kg		5
Hexabromodiphenyl ether	mg/kg		5
Heptabromodiphenyl ether	mg/kg		5
Octabromodiphenyl ether	mg/kg		5
Nonabromodiphenyl ether	mg/kg		5
Decabromodiphenyl ether	mg/kg		5

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## Test Report

Report No.: CX/2013/A0259

Date: 2013/12/27

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 will be conducted chemical test directly.
9. If the test result by EDXRF analysis is greater than XRF screening threshold, the test sample should be further conducted by chemical test.

Mark	Description of Mark
*1	The sample weight is not enough to conduct chemical tests.
*2	The item is exempted from RoHS directive.
--*2	The item might be exempted from RoHS directive.
*3	The result was retested after regetting the same sample from client.
*4	Sample(s) in this picture is/are provided from our client for the purpose of taking photos.
*5	The regotten sample was confirmed by BE EN ISO 3613:2001 and the result is shown here, due to the positive result of Cr (VI).
	Based upon the customer's requirement and information to calculate the coating thickness, the unit of the test result was conversed into mg/kg.