Test Report

Report No.: CX/2011/50040A

Date: 2011/05/23

KAILEAD INTERNATIONAL CORP.
4F., NO. 20, LANE 478, RUEIGUANG ROAD, NEIHU TECHNOLOGY
PARK, TAIPEI 114, TAIWAN

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

Sample Description	:	LED COSMETIC MIRROR WITH CLOCK
Style/Item No.	:	KLM101 / KLM101A / KLM101B / KLM103 / KLM103A / KLM103B
Sample Receiving Date	:	2011/05/03
Testing Period	:	2011/05/03 TO 2011/05/17 AND 2011/05/18 TO 2011/05/23

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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 2002/95/EC and its subsequent amendments with the exempted materials below according to the declaration from applicant:

1. SILVER COLORED METALLIC SCREW (No.1.11) in Table 1: Lead (Pb)
   ("Lead as an alloying element in steel containing up to 0.35 % lead by weight, aluminium containing up to 0.4 % lead by weight and as a copper alloy containing up to 4 % lead by weight" in Directive 2002/95/EC)

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

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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	MIRROR  	1.1	SILVER COLORED LABEL WITH BLACK PRINT		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	
		1.2	SILVER COLORED METALLIC SCREW		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	180000				
						Br	n.d.				
						Cr(VI)		Negative			
						PBB				---	
						PBDE				---	
		1.3	IVORY COLORED PLASTIC CAP		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	

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						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
1	MIRROR  	1.4	SILVER COLORED METALLIC CASE WITH WHITE PRINT		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	55700				
						Br	n.d.				
						Cr(VI)		Negative			
						PBB				---	
						PBDE				---	
		1.5	MIRROR		Composite Material	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	
		1.6	TRANSLUCENT PLASTIC CASE		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	
		1.7	BLACK LABEL		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	

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						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
1	MIRROR  	1.8	BLACK RING		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	
		1.9	BLACK FOAM PAD		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	
		1.10	SILVER COLORED METALLIC CAP		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	21700				
						Br	n.d.				
						Cr(VI)		Negative			
						PBB				---	
						PBDE				---	
		1.11	SILVER COLORED METALLIC SCREW		Metals	Pb	31500		31700		*2
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	46000				
						Br	n.d.				
						Cr(VI)		Negative			
						PBB				---	
						PBDE				---	

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						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
1	MIRROR  	1.12	SILVER COLORED METALLIC CAP		Metals	Pb	153		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	
		1.13	SILVER COLORED METALLIC CAP		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	15200				
						Br	n.d.				
						Cr(VI)		Negative			
						PBB				---	
						PBDE				---	
		1.14	BLUE-SILVER COLORED METALLIC PLANK		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	919				
						Br	n.d.				
						Cr(VI)		Negative			
						PBB				---	
						PBDE				---	
		1.15	SILVER COLORED METALLIC TUBE		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	46300				
						Br	n.d.				
						Cr(VI)		Negative			
						PBB				---	
						PBDE				---	

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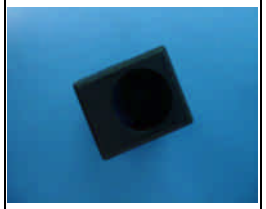
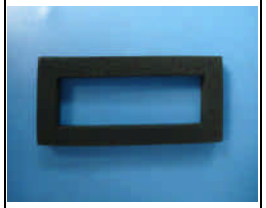
No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
1	MIRROR  	1.16	BLACK PLASTIC HOUSING		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	29800				
						Cr(VI)		---			
						PBB				n.d.	
						PBDE				n.d.	
		1.17	BLACK FOAM PAD		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	
		1.18	GRAY PLASTIC NAIL		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	
		1.19	SILVER COLORED METALLIC SCREW		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	180000				
						Br	n.d.				
						Cr(VI)		Negative			
						PBB				---	
						PBDE				---	

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						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
1	MIRROR 	1.20	BLUE-SILVER COLORED METALLIC TOOL		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	335				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	
		1.21	PCBA		Composite Material	Pb	---		---		Refer to Table 2
						Cd	---		---		
						Hg	---		---		
						Cr	---				
						Br	---				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	

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Table 2 The test results of the top side of the PCB (CX/2011/50040-1.21) by point analysis

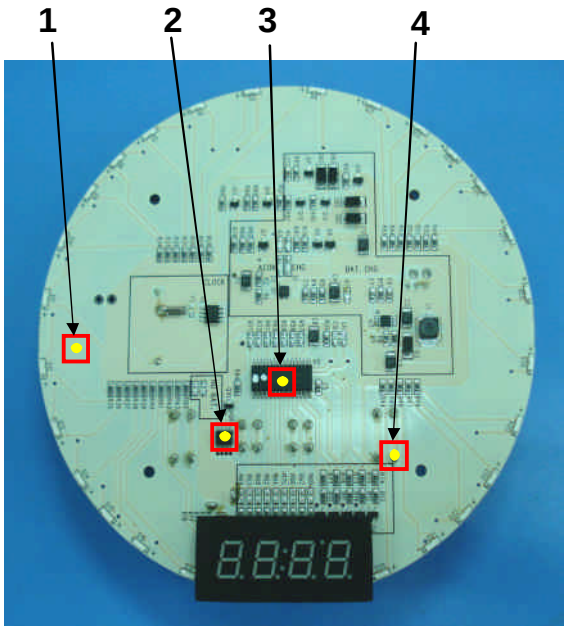
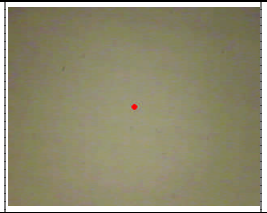
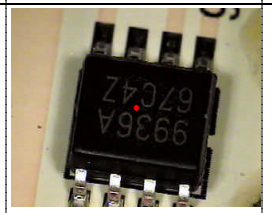
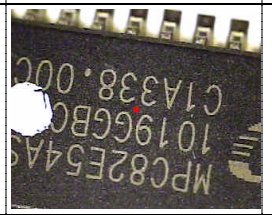
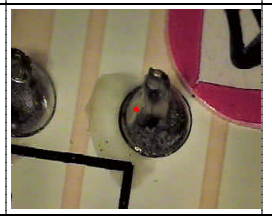
Point Analysis	No.	Figure	MDL Category	X-ray Screening		
				Element	Data	Note
	1		Composite Material	Pb	n.d.	Refer to No.1 of Table 3
				Cd	n.d.	
				Hg	n.d.	
				Cr	n.d.	
				Br	67700	
	2		Composite Material	Pb	n.d.	Refer to No.2 of Table 3
				Cd	n.d.	
				Hg	n.d.	
				Cr	n.d.	
				Br	11400	
	3		Composite Material	Pb	n.d.	
				Cd	n.d.	
				Hg	n.d.	
				Cr	n.d.	
				Br	n.d.	
	4		Metals	Pb	159	
				Cd	n.d.	
				Hg	n.d.	
				Cr	n.d.	
				Br	n.d.	

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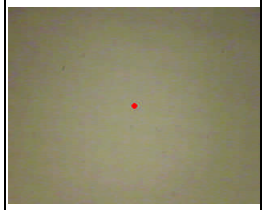
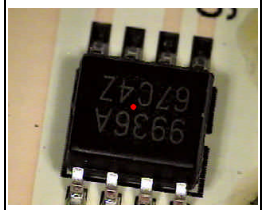
Table 3 The confirming test results for point analysis on PCBA (Unit: mg/kg)

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)	---			
					PBB			n.d.	
					PBDE			n.d.	
	2	ELECTRONIC COMPONENT		Composite Material	Pb		---		
					Cd		---		
					Hg		---		
					Cr				
					Br				
					Cr(VI)	---			
					PBB			n.d.	
					PBDE			n.d.	

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Member of the SGS Group (SGS SA)

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

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/Hg	With reference to IEC 62321: 2008	2	ICP-AES

Test Item (s):	Unit	Method	MDL
PBBs		With reference to IEC 62321: 2008. Determination of PBB and PBDE by GC/MS.	
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		5
Decabromobiphenyl	mg/kg		5
PBDEs			
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

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^2 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 chemical test.
10. PCBA, FPC and battery are conducted by chemical test directly.

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 re-getting the same sample from client.