

Report No.: CX/2015/40160

Date: 2015/05/20

### ZEROPLUS TECHNOLOGY CO., LTD. 2F., NO. 123, JIAN 8TH RD., ZHONGHE DIST., NEW TAIPEI CITY 23585, TAIWAN

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

Sample Submitted By	:	ZEROPLUS TECHNOLOGY CO., LTD.
Sample Description	:	BUS EXPERT
Sample Receiving Date	:	2015/04/15
Testing Period	:	2015/04/15 to 2015/04/29

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#### Test Result(s)

: Please refer to next page(s).

Conclusion

: Based upon the performed tests on submitted samples, the test results comply with the limits of RoHS Directive 2011/65/EU Annex II with the exempted materials below according to the declaration from applicant:

1. SILVER COLORED METALLIC NUT (No.1.10) in Table 1: Lead (Pb)

("6(c), Copper alloy containing up to 4% lead by weight" in Directive 2011/65/EU)



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# Test Report

Report No.: CX/2015/40160

Date: 2015/05/20

## **1. Material Fraction Composition**

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

				All and a second		Citta					
No.	Type of Components		Description	Figure	MDL Category		creening	UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
	CASE					Pb	n.d.				
						Cd	n.d.				
			BLACK/SILVER		-	Hg	n.d.				
		1.1	COLORED	ZEROPLUS	Metals	Cr	n.d.				
			METALLIC PAD		motalo	Br	n.d.				
						Cr(VI)					
					-	PBB					
						PBDE					
	ZEROPLUS Bus Expert				-	Pb Cd	n.d. n.d.				
	Bus Expert			• • • •	-	Hg	n.d.	-		-	
			BLACK/SILVER		-	Cr	n.d.				
1		1.2	COLORED	•	Metals	Br	n.d.	-			
			METALLIC CASE	grade and a		Cr(VI)	n.u.				
	111111 min			0	-	PBB					
	in i				-	PBDE					
	(B)(C)					Pb	n.d.				
	Junum Hilling			°0, 00, 0°		Cd	n.d.			]	
			BLACK/SILVER			Hg	n.d.				
		1.3	COLORED	0 0 00	Metals	Cr	514				
		1.5	METALLIC PLATE	0	IVIE CO IS	Br	n.d.				
						Cr(VI)		Negative			
						PBB					
						PBDE					

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	est Report				Report No.: C>	K/2015/40160				Dat	e: 2015/05/20
N	Tanado		Description	<b>-</b>		X-ray So	creening	UV	ICP-AES	GC-MS	Nata
No.	Type of Components		Description	Figure	MDL Category	Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	Note
	CASE					Pb	n.d.				
						Cd	n.d.				
						Hg	n.d.				
		1.4	BLACK METALLIC		Metals	Cr	n.d.				
			SCREW			Br	n.d.				
				and a second sec		Cr(VI)	ł				
						PBB	ł				
						PBDE					
						Pb	n.d.				
	@ > > >					Cd	n.d.				
			BLACK POLYMER			Hg Cr	1050 n.d.		570		
		1.5	SHEET		Polymers	Br	n.d.				
	ZEROPLUS Bus Expert		OTILLT			Cr(VI)	n.u.				
						PBB	ł				
						PBDE	ł				
1						Pb	n.d.				
				SHog		Cd	n.d.				
	I minimu			newisT ni ebsM		Hg	n.d.				
	mmmllll	1.6	SILVER COLORED LABEL WITH	Patent No. 7419852 127 128 128 128 128 128 128 128 128 128 128	Polymers	Cr	n.d.				
	A HIMP Summer	1.0	BLACK PRINT	Skithod 72-9811 DC9V	Folymers	Br	n.d.				
	190000 C			(bese2_01) styck1 all styler(PC_264) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c)		Cr(VI)	ļ				
				and otherway and anisotral		PBB					
						PBDE					
						Pb	n.d.				
						Cd	n.d.				
						Hg	n.d.				
		1.7	LENS		Polymers	Cr	n.d.				
				II.		Br	n.d.				
						Cr(VI) PBB	ł				
						PBDE	ł				
						FDUE					

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	est Report				Report No.: C>	(/2015/40160				Date	e: 2015/05/20
	T (0 )		<b>D</b>			X-ray S	creening	UV	ICP-AES	GC-MS	
No.	Type of Components		Description	Figure	MDL Category	Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	Note
	CASE					Pb	n.d.				
				and the second second second		Cd	n.d.				
						Hg	n.d.				
		1.8	TRANSLUCENT		Polymers	Cr	n.d.				
			PLASTIC STICK	ohhto	. elymere	Br	n.d.				
						Cr(VI)	-				
						PBB	-				
						PBDE					
						Pb	n.d.				
				A CONTRACTOR OF		Cd	n.d.				
				ECCCERCIC CONTRACTOR		Hg	n.d.				
		1.9	BLACK METALLIC MESH		Metals	Cr	405				
	ZEROPLUS Bus Expert		WESH			Br Cr(VI)	n.d.				
	Bus expert					PBB	4				
				Laboration		PBDE	+				
1						Pb	21700		*2		
						Cd	n.d.				
	IIIIII IIIII					Hg	n.d.				
	mmmllll		SILVER COLORED			Cr	n.d.				
	Allightere	1.10	METALLIC NUT		Metals	Br	n.d.				
	Alliference					Cr(VI)					
						PBB	]				
						PBDE					
						Pb	n.d.				
						Cd	n.d.				
						Hg	n.d.				
		1.11	BRASS METALLIC		Metals	Cr	n.d.				
			SCREW			Br	n.d.				
						Cr(VI)	4				
				A CONTRACTOR OF THE OWNER		PBB	4				
						PBDE					

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No.	Type of Components		Description	Figure	MDL Category	X-ray So	creening	UV	ICP-AES	GC-MS	Note
NO.	Type of Components		Description	Figure	MDL Calegory	Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	NOLE
	PCBA					Pb			58		
						Cd			n.d.		
						Hg			n.d.		
		2.1	PCBA		Composite	Cr					
		2.1	FODA		Material	Br					
				•••••••••••••••••••••••••••••••••••••••		Cr(VI)		n.d.			
	STANDAR BUS TOTO T					PBB				n.d.	
						PBDE				n.d.	
	PCBA					Pb	n.d.				
						Cd	n.d.				
			TRANSLUCENT			Hg	n.d.				
		2.2	PLASTIC BUTTON		Polymers	Cr	n.d.				
		2.2	WITH BLACK PRINT		r orymers	Br	n.d.				
						Cr(VI)					
	9					PBB					
2						PBDE					
-						Pb	n.d.				
						Cd	n.d.				
						Hg	n.d.				
		2.3	BLACK PLASTIC		Polymers	Cr	n.d.				
			HOUSING			Br	52400				
						Cr(VI)					
						PBB				n.d.	
						PBDE				n.d.	
						Pb	n.d.				
						Cd	n.d.				
	o the second					Hg	n.d.				
		2.4	BLACK PLASTIC		Polymers	Cr	n.d.				
			HOUSING			Br	n.d.				
						Cr(VI)					
						PBB					
						PBDE					

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Report No.: CX/2015/40160 Date: 2015/05/20 X-ray Screening UV **ICP-AES** GC-MS No. Type of Components Description Figure MDL Category Note PBB/PBDE Element Data Cr (VI) Pb/Cd/Hq PCBA Pb n.d. ----Cd n.d. ----Ha n.d. ----SILVER COLORED n.d. Cr 2.5 Metals METALLIC PIN Br n.d. Cr(VI) ----PBB ----PBDE ---Pb n.d. ----Cd n.d. ----Hg n.d. ----**BLUE PLASTIC** Cr n.d. 2.6 Polymers HOUSING 43000 Br Cr(VI) ---PBB n.d. PBDE n.d. 2 Pb n.d. ----Cd n.d. ----Hg n.d. ----WHITE PLASTIC Cr n.d. 2.7 Polymers HOUSING Br 52100 Cr(VI) ----PBB n.d. PBDE n.d. Pb n.d. ----Cd n.d. ---Hg n.d. ----**BLUE PLASTIC** Cr n.d. 2.8 Polymers HOUSING Br 41600 Cr(VI) ----PBB n.d. PBDE n.d.

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No.	Type of Components		Description	Figure	MDL Category	X-ray So	creening	UV	ICP-AES	GC-MS	Note
110.			Description	i iguic	MDL Outegory	Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	Note
	PCBA					Pb	n.d.				
						Cd	n.d.				
						Hg	n.d.	-			
2		2.9	SILVER COLORED		Metals	Cr	n.d.	-			
-	The state of the state	2.0	METALLIC TUBE		motalo	Br	n.d.				
						Cr(VI)					
						PBB					
						PBDE					
	FAN					Pb	n.d.				
						Cd	n.d.				
			SILVER COLORED			Hg	n.d.				
		3.1	LABEL WITH	MagLey MagLey DCSV=sc.eov	Polymers	Cr	n.d.				
		0.1	GREEN PRINT	DCSUV == 0.60W F2836A	i olymoro	Br	n.d.				
				MADE IN COMM		Cr(VI)					
	0.0					PBB					
						PBDE					
						Pb	n.d.				
						Cd	n.d.				
						Hg	n.d.				
3		3.2	BLACK PLASTIC		Polymers	Cr	n.d.				
			FRAME			Br	89800				
						Cr(VI)					
						PBB				n.d.	
						PBDE				n.d.	
						Pb	n.d.	4			
						Cd	n.d.	4			
				8		Hg	n.d.	4			
		3.3	BLACK PLASTIC		Polymers	Cr	n.d.	4			
			JACKET			Br	n.d.				
						Cr(VI)	ł				
						PBB	ļ				
						PBDE					

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											0.2010/00/20
No.	Type of Components		Description	Figure	MDL Category	X-ray So	creening	UV	ICP-AES	GC-MS	Note
NO.	Type of Components		Description	Figure	MDL Calegory	Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	Note
	FAN					Pb	n.d.				
				1		Cd	n.d.				
						Hg	n.d.				
		3.4	RED PLASTIC	784 1	Polymers	Cr	n.d.				
		5.4	JACKET		i olymeis	Br	n.d.				
				4		Cr(VI)					
						PBB					
3						PBDE					
Ŭ						Pb	n.d.				
						Cd	n.d.				
						Hg	n.d.				
		3.5	WHITE PLASTIC	NOT COM	Polymers	Cr	n.d.				
		0.0	HOUSING		rorymoro	Br	n.d.				
						Cr(VI)					
						PBB					
						PBDE					
	ACCESSORY					Pb	n.d.				
						Cd	n.d.				
				CITIVE		Hg	n.d.				
	- ·	4.1	BLACK PLASTIC	Ville Ville	Polymers	Cr	n.d.				
	Support of the State		TUBE	MANTID		Br	n.d.				
						Cr(VI)					
						PBB					
4						PBDE					
						Pb	n.d.				
						Cd	n.d.				
						Hg	n.d.				
		4.2	BLACK PLASTIC		Polymers	Cr	n.d.				
	4		JACKET		,	Br	n.d.				
						Cr(VI)	ļ				
				방송 동물 전 같이 가지 않는 것이다.		PBB	ļ				
						PBDE					

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	Tarado		Description	<b>F</b> '		X-ray So	creening	UV	ICP-AES	GC-MS	Nede
No.	Type of Components		Description	Figure	MDL Category	Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	Note
	ACCESSORY					Pb	n.d.				
						Cd	n.d.				
						Hg	n.d.				
		4.3	WHITE PLASTIC		Polymers	Cr	n.d.	-			
			JACKET			Br	n.d.				
						Cr(VI) PBB	ł				
						PBDE	ł				
						Pb	n.d.				
						Cd	n.d.	-			
						Hg	n.d.				
			BLACK PLASTIC		Datasa	Cr	n.d.				
	hoad a ca WOL	4.4	HOUSING		Polymers	Br	22900				
						Cr(VI)					
						PBB				n.d.	
4						PBDE				n.d.	
						Pb	n.d.				
				1212		Cd	n.d.	-			
				The State		Hg	n.d.	-			
		4.5	BLACK PLASTIC HOUSING	Alle Carl	Polymers	Cr Br	n.d. n.d.	-			
			1000110	4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		Cr(VI)	n.u.				
	4					PBB	ł				
						PBDE	ł				
						Pb	382				
						Cd	n.d.	1			
						Hg	n.d.	]			
		4.6	SILVER COLORED		Metals	Cr	136000				
		<del>т</del> .0	METALLIC CLAMP		WE CO S	Br	n.d.				
						Cr(VI)	ļ	Negative			
						PBB	ļ				
						PBDE					

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#### Report No.: CX/2015/40160

Date: 2015/05/20

Test Item :		MDL (r	ng/kg)		XRF screening	Test method	Test Item (s):	Unit	Method	MDL
	Category Element	Polymers	Composite Material	Metals	threshold (mg/kg)		PBBs			(mg/kg)
XRF	Pb	50	100	100	500	With reference to	Monobromobiphenyl	mg/kg		5
(X-ray	Cd	50	50	50	50	IEC 62321-3-1:	Dibromobiphenyl	mg/kg		5
fluorescence)	Hg	50	100	100	500	2013	Tribromobiphenyl	mg/kg		5
	Cr	50	100	100	500		Tetrabromobiphenyl	mg/kg		5
	Br	50	100	n.a.	250		Pentabromobiphenyl	mg/kg		5
	•				•		Hexabromobiphenyl	mg/kg		5
Toot Itom (o)	-	est method		MDL	Facilities		Heptabromobiphenyl	mg/kg		5
Test Item (s):	•	est method		(mg/kg)	Facilities		Octabromobiphenyl	mg/kg		5
			004.0000			1	Nonabromobiphenyl	mg/kg	With reference to IEC	5
	With reference (For Polymer			2	UV		Decabromobiphenyl	mg/kg	62321: 2008.	5
Cr(VII)			Jiics)				PBDEs		Determination of PBB	
Cr(VI)			201. 2000				Monobromodiphenyl ether	mg/kg	and PBDE by GC/MS.	5
	With reference (For Coatings		321:2008	_*	-		Dibromodiphenyl ether	mg/kg		5
	(I OI COatilige	on metais)					Tribromodiphenyl ether	mg/kg		5
	With reference		001 Et 0010	2	ICP-AES		Tetrabromodiphenyl ether	mg/kg		5
Pb/Cd	With reference		521-5. 2013	2	ICP-AES		Pentabromodiphenyl ether	mg/kg		5
l la	With reference		221 4: 2012	2			Hexabromodiphenyl ether	mg/kg		5
Hg	With reference		DZ 1-4. ZU 13	2	ICP-AES		Heptabromodiphenyl ether	mg/kg	1	5
	*		•		•	•	Octabromodiphenyl ether	mg/kg		5
							Nonabromodiphenyl ether	mg/kg	1	5

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Decabromodiphenyl ether

mg/kg

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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

The XRF result of Br for metal sample is conducted from semi-quantitative method of polymer. If the Br result is shown as n.d., the reading will be less than 100ppm.

6. " - " = Not Regulated

7. \_\*:

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.

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

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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	The sample is provided separately from the client.

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