

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.

: LOGIC ANALYZER (邏輯分析儀) Sample Description

Style/Item No. : LAP-F1(XXXXXX)M

Other Info. : THE 1ST/2ND X COULD BE 40 OR 64 FOR CHANNEL DIFFERENCES AND THE 3RD/4TH/5TH/6TH X COULD BE

4/8/16/32/64/128/256/512/1024 FOR MEMORY CAPACITY DIFFERENCES

Sample Receiving Date : 2017/08/18

**Testing Period** 2017/08/18 to 2017/09/01

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

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 and amending

Directive (EU) 2015/863 with the exempted materials below according to the declaration from applicant:

1. SILVER METALLIC NUT (No.1.6) in Table 1: Lead (Pb)

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



1/12

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



## 1. Material Fraction Composition

Table 1 The results of XRF screening and chemical test

	ZERGPAAS I name	•		Chemicaltest	00							
No.	Type of Components		Description	Figure	MDL Category	X-ray So	creening	UV	ICP-AES	GC-MS	Other	Note
140.	Type of Components		Description	rigure		Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	Chemical Test	
	CASE					Pb	n.d.					
						Cd	n.d.					
			SILVERY METALLIC			Hg	n.d.					
	1.1	COVER WITH		Metals	Cr	n.d.						
			BLUE PAINT	ZEROPLUS Feater	ivetais	Br	n.d.					
						Cr(VI)						
						PBB					4	
						PBDE						
	ZEROPLUS					Pb	n.d.	-		1		
	February					Cd	n.d. n.d.	-		4		
			SILVERY METALLIC	Ma	1	Hg Cr	714	-		_		
1		1.2	NUT NUT		Metals	Br	n.d.	1				*5
			1101			Cr(VI)	n.u.	n.d.				
						PBB		n.u.			-	
						PBDE						
						Pb	n.d.					
						Cd	n.d.	1		1		
				Zerterius Louis Armyter PC Based)		Hg	n.d.	1		1		
		1.3	SILVERY LABEL WITH BLACK	Emispius Logic Amayor (PC_Blased) Misele No. LAPS ((popul) Interface 1920 20 200: 15112, 3023 DCN 122-2000ns	Polymers	Cr	n.d.					
		1.3	PRINT		Folymers	Br	n.d.					
			1 1 1 1 1 1	Made in Talinan rdp. (Www. zaroplus core.bv (2005)		Cr(VI)						
						PBB						
				THE RESIDENCE OF THE PARTY OF T		PBDE						

2/12



No.	Type of Components		Description	Figure	MDL Category	X-ray So	reening	UV	ICP-AES	GC-MS	Other	Note
				1.94.1	,	Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	Chemical Test	
	CASE					Pb	n.d.					
						Cd	n.d.					
			BLACK PLASTIC	-601		Hg	n.d.					
		1.4	COVER WITH		Polymers	Cr	n.d.				Refer to Table 3	
			SILVERY PRINT		,	Br	n.d.					
						Cr(VI)					4	
						PBB					_	
						PBDE	n d					
						Pb Cd	n.d. n.d.	-		-		
						Hg	n.d.	-		1		
	100000000000000000000000000000000000000					Cr	n.d.	1		-		
		1.5	BLACK PAD		Polymers	Br	n.d.				Refer to Table 3	
	ZEROPLUS			00		Cr(VI)						
						PBB						
1						PBDE						
'						Pb	17200		*2			
						Cd	n.d.					
	<b>O</b>					Hg	n.d.					
		1.6	SILVERY METALLIC		Metals	Cr	n.d.					
			NUT		otalo	Br	n.d.					
	0 0					Cr(VI)						
						PBB					_	
				A MARINE		PBDE						
						Pb Cd	n.d. n.d.	-		-		
						Hg	n.d.	-		1		
			SILVERY METALLIC	Mary .		Cr	365	1		1		
		1.7	SILVERY METALLIC RING	(())	Metals	Br	n.d.	1				
	RING			Cr(VI)								
						PBB					1	
						PBDE						

3/12



No.	Type of Components		Description	Figure	MDL Category	X-ray Sc	reening	UV	ICP-AES	GC-MS	Other	Note
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			9		Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	Chemical Test	
	CASE			ZI SI CALLED THE CONTRACT OF T		Pb	n.d.					
						Cd	n.d.					
					Metals -	Hg	n.d.					
		1.8	SILVERY METALLIC SCREW	5.5		Cr	n.d.					
		1.0	SCREW		iviciais	Br	n.d.					
						Cr(VI)						
						PBB						
	100000000000000000000000000000000000000					PBDE						
				Committee of the Commit		Pb	n.d.					
	ZEROPLUS					Cd	n.d.					
	_			100		Hg	n.d.					
1		1.9	SILVERY METALLIC		Metals	Cr	n.d.					
'		1.3	SCREW		ivictais	Br	n.d.					
						Cr(VI)						
	0 0					PBB						
				A PROPERTY OF THE PARTY OF THE		PBDE						
	_			(CSAMS-3-77)		Pb	n.d.					
	0					Cd	n.d.					
				0		Hg	n.d.					
		1.10	BLACK METALLIC		Metals	Cr	107					
			RING			Br	n.d.					
						Cr(VI)					_	
						PBB						
						PBDE						
	PCBA					Pb			6.92			
				Para Allanda Mariana		Cd			n.d.			
	10000000000000000000000000000000000000					Hg			n.d.			
2	2	2.1	PCBA	N Management	Composite Material	Cr					Refer to Table 3	Refer to Table 2
					iviateriai	Br						
				STATE OF THE PARTY		Cr(VI)		n.d.			4	
			•	and the same and the same		PBB				n.d.	4	
						PBDE				n.d.		

4/12



No.   Type of Components   Description   Figure   MOL Category   Element   Data   Cr (M)   Pu0Cohig   PBB/PBDE   Chemical Test   Note							7. 0742017700						C. 2017710701
PCBA	No.	Type of Components		Description	Figure	MDL Category	X-ray So	reening	UV	ICP-AES	GC-MS		Note
22 ELECTRONC COMPONENT  23 ELECTRONC COMPONENT  24 BLACK CORE FRAME  25 COPPER METALLC WIRE  26 Composite Material  27 Composite Material  28 Composite Material  29 Composite Material  20 Composite Material  20 Composite Material  20 Composite Material  21 Composite Material  22 Composite Material  23 Composite Material  24 BLACK CORE FRAME  25 COPPER METALLC WIRE  26 Composite Material  26 Composite Material  27 Composite Material  28 Composite Material  29 PB DE Composite Material  20 Composite Material  20 Composite Material  24 BLACK CORE FRAME  25 COPPER METALLC WIRE  26 COMPONENT  27 COMPONENT  28 COMPONENT  COMPO		. , , , , , , , , , , , , , , , , , , ,			g		Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	Chemical Test	
2.2 ELECTRONC COMPONENT  COMPOSITE Meterial  ELECTRONC COMPONENT  2.3 ELECTRONC COMPONENT  Composite Meterial  Pb		PCBA					Pb	171					
2 2 ELECTRONIC COMPONENT  2.3 ELECTRONIC COMPONENT  2.3 ELECTRONIC COMPONENT  2.4 BLACK CORE FRAME  2.5 COPPER METALLIC WIRE  ELECTRONIC COMPONENT  Composite Material  Composite Naterial  Composite Naterial													
2.3 ELECTRONC COMPONENT  2.3 ELECTRONC COMPONENT  2.4 BLACK CORE FRAME  BLACK CORE FRAME  Composite Material  Composite Materi													
COMPONENT   National   Str.   n.d.			22	ELECTRONIC	O H	Composite							
PBB			2.2	COMPONENT	No. of the last of	Material		n.d.					
2.3 ELECTRONIC COMPONENT  2.3 ELECTRONIC COMPONENT  2.4 BLACK CORE FRAME  BLACK CORE FRAME  2.5 COPPER METALLIC WIRE  PBDE  PB					M. W. B.	_							
2.3 ELECTRONIC COMPONENT  2.3 ELECTRONIC COMPONENT  2.4 BLACK CORE FRAME  2.5 COPPER METALLIC WIRE  Pb n.d. Cr(v) PBB PBDE  Composite Material  Pb n.d. Cr(v) PBB PBDE  Composite Material  Pb n.d. Cr(v) PBB PBDE  Composite Material  Pb n.d. Cr(v) PBB PBDE  Cr n.d. Br n.d. Cr(v) PBB PBDE  PBD PBD PBD PBD PBD PBD PBD PBD PBD PB						_							
2.3 ELECTRONIC COMPONENT  2.3 ELECTRONIC COMPONENT  Composite Material  Br													
2.3 ELECTRONIC COMPONENT    Composite Material   High   n.d.   Cr   n.d.   High   n.d.   Cr(VI)   PBB   PBDE													
2.3 ELECTRONIC COMPONENT  Composite Naterial  Composite Naterial  PBB  PBDE  PB n.d.  Cod n.d.  Hg n.d.  Cr(VI)  PBB  Br n.d.  Cr(VI)  PBB  PBDE  Composite Naterial  Composite Naterial  Pb n.d.  Cr(VI)  PBB  PBDE  Composite Naterial  Retallic Wire  Metals  Metals  Metals  Metals  Composite Naterial  Composite Naterial  Pb n.d.  Cr(VI)  PBB  PBDE   Composite Naterial  PB n.d.  Cr(VI)  PBB  PB n.d.  Cr n.d.  Hg n.d.   Cd n.d.  Hg n.d.   Cd n.d.  Hg n.d.   Cr n.d.  Br n.d.   Cr n.d.  Br n.d.   Cr(VI)  PBB		and the same				-							
2.3 COMPONENT  Material  Br n.d.  Cr(VI)  PBB  PBDE  PB n.d.  Cd n.d.  Hg n.d.  Cr n.d.  Br n.d.  Composite Material  Pb n.d.  Cr n.d.  Br n.d.  Cr(VI)  PBB  PBDE   Composite Material  Br n.d.  Cr(VI)  PBB  PBDE   Cr n.d.  Br n.d.  Cr n.d.  Cr n.d.  Br n.d.   Cr n.d.  Br n.d.   Cr n.d.  Br n.d.   Cr n.d.  Br n.d.   Cr n.d.  Br n.d.   Cr n.d.  Br n.d.   Cr n.d.  Br n.d.		+3/2 III (#18/4)											
2.4 BLACK CORE FRAME  2.4 BLACK CORE FRAME  2.5 COPPER METALLIC WIRE    Metals   Br   n.d.			2.3	ELECTRONIC		Composite							
PBB PBDE		the seeds and the Live		COMPONENT		iviateriai		n.d.					
PBDE		THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW										4	
Pb   n.d.												4	
2.4 BLACK CORE FRAME    Composite Material   Cd   n.d.	2					-							
2.4   BLACK CORE FRAME   Composite Material   Hg   n.d.   Cr   n.d.   Br   n.d.   Cr(VI)   PBB   PBDE       Cd   n.d.     Cd   n.d.     Cd   n.d.     Cd   n.d.     Cr   n.d.   Hg   n.d.     Cr   n.d.     Cr   Transport   T										-	-		
2.4 BLACK CORE FRAME  Composite Material  Cr n.d.  Br n.d.  Cr(VI)  PBB  PBDE   Pb n.d.  Cd n.d.  Hg n.d.  Cr  Hg n.d.  Cr  Tr  Tr  Tr  Tr  Tr  Tr  Tr  Tr  Tr		n E E E			_6	-			-	-	-		
2.4 FRAME  Material  Br n.d.  Cr(VI)  PBB  PBDE   Pb n.d.  Cd n.d.  Hg n.d.  Hg n.d.   Hg n.d.  Cr(VI)  PBB  Cr n.d.  Br n.d.   Cd n.d.  Hg n.d.   FBR  Br n.d.   Cr(VI)  PBR   Br n.d.      PBR		* . T # .		DI ACK CODE		Composito	пу		-				
Cr(VI)			2.4	FRAME	SCA	Material							
PBB PBDE				110 WIL	10000	- Wateriai		n.u.					
PBDE  PBDE  Pb n.d  Cd n.d  Hg n.d  Hg n.d  Cr n.d.  Br n.d.  Cr(VI)  PBB		Same and the second sec				-							
2.5 COPPER METALLIC WIRE    COPPER METALLIC WIRE						-							
COPPER   Metals								n.d.					
2.5 COPPER METALLIC WIRE    Metals   Hg   n.d.					TO SHEET	-					1		
2.5 COPPER METALLIC WIRE    Metals   Cr   n.d.   Br   n.d.					N	-					1		
METALLIC WIRE				COPPER	& Thomas Cold	l							
Cr(VI)			2.5	METALLIC WIRE		Metals			1				
PBB					Proposes v.								
					The state of the s	<u> </u>						1	
PDDE					ļ	PBDE							

5/12



No.	Type of Components		Description	Figure	MDL Category	X-ray So	reening	UV	ICP-AES	GC-MS	Other	Note
			,,,,	<b>0</b> * *	311131	Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	Chemical Test	
	PCBA					Pb	n.d.					
						Cd	n.d.					
						Hg	n.d.					
		2.6	ELECTRONIC		Composite	Cr	n.d.					
			COMPONENT		Material	Br	n.d.					
						Cr(VI)						
						PBB						
						PBDE						
						Pb	n.d.			-		
					ŀ	Cd Hg	n.d.			-		
			BROWN POLYMER		-	ng Cr	n.d. n.d.			1		
		2.7	JACKET	ACC TO THE REAL PROPERTY.	Polymers	Br	n.d.					
	MAN DE COLORES			The state of the s	ŀ	Cr(VI)	n.u.					
						PBB						
	,					PBDE						
2				NAME AND POST OF THE PARTY OF T		Pb	n.d.					
	* YEAR XXXXXXXXXXX					Cd	n.d.					
						Hg	n.d.					
		2.8	SILVERY METALLIC		Metals	Cr	n.d.					
		2.0	COVER		ivictais	Br	n.d.					
	• AARAKKA AARAA			7		Cr(VI)						
	,					PBB						
						PBDE						
						Pb	n.d.					
						Cd	n.d.			-		
			OIL VEDVANETALLIO			Hg	n.d.			-		
		2.9	SILVERY METALLIC COVER	LEME	Metals	Cr Br	182000 n.d.					*5
	CC	OOVER	The state of the s		Cr(VI)	II.u.	n.d.					
					PBB		n.u.			-		
						PBDE					1	

6/12



No.	Type of Components		Description	Figure	MDL Category	X-ray Sc	reening	UV	ICP-AES	GC-MS	Other	Note
	<b>3</b> ,			<b>0</b>	33.	Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	Chemical Test	
	PCBA			THE LOCAL STATE OF THE LOCAL STA		Pb	n.d.					
						Cd	n.d.					
						Hg	n.d.					
		2.10	BLACK PLASTIC	CO <sub>b</sub>	Polymers	Cr	n.d.					
		2.10	HOUSING		1 diyinidid	Br	n.d.					
						Cr(VI)						
						PBB						
						PBDE						
						Pb	n.d.			-		
				/ /		Cd	n.d.			-		
			DI LIE DI ACTIO			Hg	n.d.			-		
		2.11	BLUE PLASTIC HOUSING		Polymers	Cr Br	n.d. 48400				Refer to Table 3	
	Nobeli actività		TIOOSING			Cr(VI)	48400					
	***************************************					PBB				n.d.	1	
	,					PBDE				n.d.	_	
2						Pb	n.d.			11.0.		
						Cd	n.d.			1		
	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			A		Hg	n.d.					
	1 m		SILVERY METALLIC			Cr	n.d.					
		2.12	COVER		Metals	Br	n.d.					
	***************					Cr(VI)						
						PBB						
						PBDE						
				STATE OF THE STATE		Pb	n.d.					
						Cd	n.d.					
						Hg	n.d.					
		2.13	WHITE PLASTIC	DESCRIPTION OF	Polymers	Cr	n.d.					
			HOUSING	4C SHA	,	Br	n.d.					
						Cr(VI)					_	
						PBB					_	
				AND THE PARTY OF T		PBDE						

7/12



						X-ray Sc		UV	ICP-AES	GC-MS	Other	
No.	Type of Components		Description	Figure	MDL Category	Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	Chemical Test	Note
	FAN					Pb	n.d.					
						Cd	n.d.					
						Hg	n.d.			1		
		0.4	BLACK PLASTIC		Daharan	Cr	n.d.			1	Defeate Table 0	
		3.1	FRAME		Polymers	Br	48100				Refer to Table 3	
						Cr(VI)						
						PBB				n.d.		
						PBDE				n.d.		
						Pb	n.d.					
						Cd	n.d.					
	9		BLACK PLASTIC JACKET	8	Polymers	Hg	n.d.					
3		3.2				Cr	n.d.					
٦		3.2				Br	n.d.					
						Cr(VI)						
	-					PBB						
						PBDE						
						Pb	n.d.					
						Cd	n.d.					
						Hg	n.d.					
		3.3	SILVERY METALLIC		Metals	Cr	n.d.					
		0.0	WIRE		l motals	Br	n.d.					
						Cr(VI)					_	
						PBB					1	
				Name and Additional Section of the Control of the C		PBDE						

8/12

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



Table 2 The test results on the PCBA (CX/2017/80256-2.1) by point analysis (Unit: mg/kg)

Point Analysis	No.	Figure	Material	X-ray Screening			
Foliat Arialysis	INO.	rigure	Type	Element	Data	Note	
1 2				Pb	119		
				Cd	n.d.		
	1		Metals	Hg	n.d.		
				Cr	n.d.		
		2 6 6 6		Br	n.d.		
				Pb	n.d.		
				Cd	n.d.		
	2	• •	Composite Material	Hg	n.d.		
		<b>不可能是想象</b>	Material	Cr	n.d.		
				Br	n.d.		



## Table 3 The test results of Phthalates (Unit: mg/kg)

Test Item (s):	Method	MDL	Result					
rest item (s).	Metriod	MIDL	1.4	1.5	2.1	2.11	3.1	
BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)		50	n.d.	n.d.	n.d.	n.d.	n.d.	
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	With reference to IEC 62321-8	50	n.d.	n.d.	n.d.	n.d.	n.d.	
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	(2017). Analysis was performed by GC/MS.	50	n.d.	n.d.	n.d.	n.d.	n.d.	
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)		50	n.d.	n.d.	n.d.	n.d.	n.d.	

10/12



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

Test Item (s)	Test method	MDL	Unit
Cr(\/I)	With reference to IEC 62321-7-2 (2017) and performed by UV-VIS. (For Polymers and Electronics)	8	mg/kg
Cr(VI)	With reference to IEC 62321-7-1 (2015) and performed by UV-VIS. (For Coatings on Metals) (#2)	0.1	μg/cm²
Pb/Cd	With reference to IEC 62321-5 (2013) and performed by ICP-AES.	2	mg/kg
Hg	With reference to IEC 62321-4 (2013) and performed by ICP-AES.	2	mg/kg

	Test Item (s)	Unit	Method	MDL (mg/kg)
	PBBs			
	Monobromobiphenyl	mg/kg		5
,	Dibromobiphenyl	· · · · · · · · · · · · · · · · · · ·	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	With reference to IEC	5
	PBDEs		62321-6 (2015) and performed by GC/MS.	
	Monobromodiphenyl ether	mg/kg	performed by GC/MS.	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

11/12

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.



- 1. mg/kg = ppm
- 2. MDL = Method detection limit
- 3. n.d. = not detected or lower than MDL
- 4. "---" = not conducted
- 5. n.a. = not applicable
- 6. " " = Not Regulated
- 7. The XRF result of Br for metal sample is conducted from semiquantitative method of polymer. If the Br result is shown as n.d., the reading will be less than 100ppm.
- 8. (#2):
  - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm<sup>2</sup>.
    - The coating is considered to contain Cr(VI).
  - b. The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 µg/cm<sup>2</sup>).
    - The coating is considered a non-Cr(VI) based coating.
  - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive - unavoidable coating variations may influence the determination.

- 9. 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.
- 10. 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 EU RoHS directive.
*2	The item might be exempted from EU RoHS directive.
*3	The result was retested after regetting the same sample from client.
*4	The sample is provided separately from the client.
*5	Adopting modified IEC 62321-7-1(2015), due to the test area less than 25 cm <sup>2</sup>
*6	The test item was tested by dry base.
*7	This sample follows requirement of client to conduct directly chemical tests.

12/12