

Page 1 of 11

## **TEST REPORT**

Applicant: Address:

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Flashbay Electronics Building2 ,Jixun Industrial Park ,Xinjiao ,Dong'ao Village ,Shatian Town ,Huiyang District ,Huizhou City , Guangdong Province,P.R.China

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

Sample name:	USB Flash Drives
Model:	Active/AT
Manufacturer & Factory:	Flashbay Electronics
Address:	Building2 ,Jixun Industrial Park ,Xinjiao ,Dong'ao Village ,Shatian 🎺
	Town ,Huiyang District ,Huizhou City , Guangdong Province,P.R.China

 Sample No.:
 S241022030002

 Sample Received Date:
 2024-10-24

 Testing Period:
 2024-10-24~ 2024-11-08

### **Test Requirement:**

Compiled by:

Approved by:

Conclusion

As specified by client, to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs), Bis-(2-ethylhexyl) Phthalate (DEHP), Benzyl butyl Phthalate (BBP), Dibutyl Phthalate (DBP) and Diisobutyl Phthalate(DIBP)contents in the submitted sample(s) in accordance with RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Pass

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**Test Result(s):** Please refer to the following page(s);

Test Method: Please refer to the following page(s);

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Reviewed by:

Date:

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2024-11-12





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### Sample Description:

No.	Sample name	Description	
1		Silver metal shell of shell	
2		Silver metal spring of shell	
3		Silver metal rivet(large) of shell	Å.
4		Silver metal rivet(small) of shell	R.C.
5		Silver metal shell of USB interface	~
6		Black plastic frame of USB interface	
7	USB Flash Drives	Black PCB of USB interface	
8	- The second sec	Yellow FPC of USB interface	
9		Silver metal shell of type-c interface	
10		Gray plastic of type-c interface	
11		Silver metal insert of type-c interface	
12		Silver metal pin of type-c interface	A.
13		Green PCB of mainboard PCB	SIL

### Test Result(s):

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Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers(PBDEs)

		. ,,	<b>,</b>		- /				
SIL	Part No.	Те	st Items	XRF Screening	Chemical Test	Conclusion			
-				Result(mg/kg)	Result(mg/kg)	×			
			Pb	BL	<u>⊚</u> /				
			Cd	BL	Kill I	4			
	1		Hg	BL		Daga			
	I	Cr	Cr(VI)	BL 🗧	/	Pass			
©		Dr	PBBs	1	/				
FEK TIN		Br	PBDEs	1	/				
	2		Pb	BL	/				
					Cd	BL	/		
			Hg	BL	/	Pass			
		2	2	2	Cr	Cr(VI)	BL	<u> </u>	Fass
			Br	PBBs	1	Sine 1	4		
		DI	PBDEs		/				
			Pb Jim	BL	/				
STEK JUN			Cd	BL	/				
	3		Hg	BL	/	Pass			
	3	Cr	Cr Cr(VI) BL /	F a 55					
		Dr	PBBs		/				
		Br	PBDEs	1	/	A A			
						ST			



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F	Report No.:	S241022030010	001		ATT	Page 3 of 11
		Pb	*	BL	/	
TEK TIN		Cd		BL	/	
		Hg		BL	/	Daaa
	4	Cr	Cr(VI)	IN	N.D.	Pass
		Br	PBBs	/	/	
		ŀ	PBDEs	-	<u> </u>	J. T.
		Pb		BL		_
		Cd		BL		_
	5	Hg	È.s.	BL	/	Pass
ALL			Cr(VI)	BL	/	_
at w		Br —	PBBs	/	/	_
FEK TRIN		F	PBDEs		/	
		Pb		BL		
		Cd		BL		_
	6	Hg	<b>•</b> • • •	BL		- Pass
			Cr(VI)	BL		_
		Br —	PBBs	BL		_
			PBDEs		/	
AL Yill		Pb Cd		BL BL	/	_
FEK Trill	7	Hg		BL	/	_
			Cr(VI)	BL	/	– Pass
			PBBs	DL	ر بر	-
		Br	PBDEs	IN	N.D.	
_		Pb	8	BL		
		Cd	Nill I	BL		_
©	_	Hg	¥ .	BL	/	_
Hill	8		Cr(VI)	BL	/	- Pass
FEK Trill			PBBs		/	
		Br	PBDEs	BL	/	
		Pb		BL	/	
		Cd		BL	<u> </u>	
	9	Hg		BL	A Jun /	Pass
	3		Cr(VI)	IN	N.D.	1 000
		Br d	PBBs	/	/	
		21	BDEs		/	
Et 3		Pb		BL	/	_
FER JUN		Cd		BL	/	_
	10	Hg	• • • •	BL	/	- Pass
			Cr(VI)	BL		
		Br	PBBs	BL		
		F	PBDEs			





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©			Pb	BL	/						
Hille			Cd	BL	/						
X Yill	11		Hg	BL	/	Pass					
	11	Cr	Cr(VI)	IN	N.D.	F 855					
		Br	PBBs	1	/						
		Ы	PBDEs	/	<u> </u>	1 Contraction of the second se					
			Pb	BL	A Yer /						
	12	12		Cd 🔊	BL						
			12	12	12		Hg	BL	/	– Pass	
<u>_</u>			Cr	Cr(VI)	BL	/	1 035				
t.							Br	PBBs	1	/	_
					PBDEs	/	/				
			Pb	BL	/	_					
			Cd	BL	/						
	13		Hg	BL	1 (iii)	- Pass					
	10	Cr	Cr(VI)	BL		1 400					
		Br	PBBs	IN	N.D.						
©		2.	PBDEs		N.D.						
X Till			4,								

Bis-(2-ethylhexyl) Phthalate (DEHP), Benzyl butyl Phthalate (BBP), Dibutyl Phthalate (DBP) Nill. and Diisobutyl Phthalate(DIBP)

	Toot Itoma				
	Test Items	6+10	7 5	8	13
	Bis-(2-ethylhexyl) Phthalate (DEHP)	N.D.	N.D.	N.D.	N.D.
	Benzyl butyl Phthalate (BBP)	N.D.	N.D.	N.D.	N.D.
	Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	N.D.
A Kill	Diisobutyl Phthalate(DIBP)	N.D.	N.D.	N.D.	N.D.
J'EK IL.	Conclusion	Pass	Pass	Pass	Pass
7			N <sup>in</sup>		WTEX

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## NTEK 北测<sup>®</sup>

Report No.: S24102203001001

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1.N.D. = Not Detected (<MDL) MDL = Method Detection Limit

1mg/kg = 1ppm =0.0001%

/=Not Regulated or Not Applicable

2. BL = Below the XRF screening limit

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IN = Further chemical test will be conducted when the screening result inconclusive

OL = Further chemical test will be conducted while the result is above the screening limit. 3. For metal samples, the sample is negative for Cr(VI), if the Cr(VI) concentration is less than 0.10 µg/cm<sup>2</sup>, the coating is considered a non- Cr(VI) based coating;

The sample is positive for Cr(VI), if the Cr(VI) concentration is greater than 0.13  $\mu$ g/cm<sup>2</sup>, The sample coating is considered to contain Cr(VI);

The result is considered to be inconclusive, the Cr(VI) concentration is between the  $0.10 \ \mu\text{g/cm}^2$  and  $0.13 \ \mu\text{g/cm}^2$ , unavoidable coating variations may influence the determination. Because the storage condition and production date of the sample are not known, the test results of the sample of hexavalent chromium can only represent the state of hexavalent chromium in the samples tested.

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1. When conducting the test for PBBs&PBDEs, XRF was introduced to screen Br Exclusively; When conducting the test for Hexavalent Chromium, XRF was introduced to screen Chromium exclusively.

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### **Test Method:**

1. With reference to IEC 62321-1: 2013 Ed.1.0, IEC 62321-2:2021 Ed.2.0, IEC 62321-3-1:2013 Ed.1.0. XRF screening limits in mg/kg for regulated elements in various matrices.

Z.	Element	Limit	t of IEC 62321-3-1:2013 Ed.1.0	(mg/kg)
	Element	Polymers	Metals	Composite material
	Pb	BL≤(700-3σ) <x< th=""><th>BL≤(700-3σ) <x< th=""><th>BL≤(500-3σ)&lt;Χ</th></x<></th></x<>	BL≤(700-3σ) <x< th=""><th>BL≤(500-3σ)&lt;Χ</th></x<>	BL≤(500-3σ)<Χ
	PU	<(1300+3σ)≤OL	<(1300+3σ)≤OL	<(1500+3σ)≤OL
WIEK THIN	Cd	BL≤(70-3σ) <x <<="" td=""><td>BL≤(70-3σ)<x <<="" td=""><td>LOD <x<(150+3σ)< td=""></x<(150+3σ)<></td></x></td></x>	BL≤(70-3σ) <x <<="" td=""><td>LOD <x<(150+3σ)< td=""></x<(150+3σ)<></td></x>	LOD <x<(150+3σ)< td=""></x<(150+3σ)<>
		(130+3σ) ≤OL	(130+3σ) ≤OL	≤OL
	Hg	BL≤(700-3σ)<Χ	BL≤(700-3σ)<Χ	BL≤(500-3σ)<Χ
		<(1300+3σ)≤OL	<(1300+3σ)≤OL	<(1500+3σ)≤OL
STE	Cr	BL≤(700-3σ)< X	BL≤(700-3σ)< X	BL≤(500-3σ)< X
	Br	BL≤(300-3σ)< X	/	BL≤(250-3σ)< X 🔬
			. Tim	ANTEL .

Note:

BL= Below the XRF screening limit

OL=Over the XRF screening limit

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- X=The symbol"X"marks the region where further investigation is necessary.
- $3\sigma$  =The reproducibility of analytical instruments



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LOD= Detection limit

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2. Chemical Test

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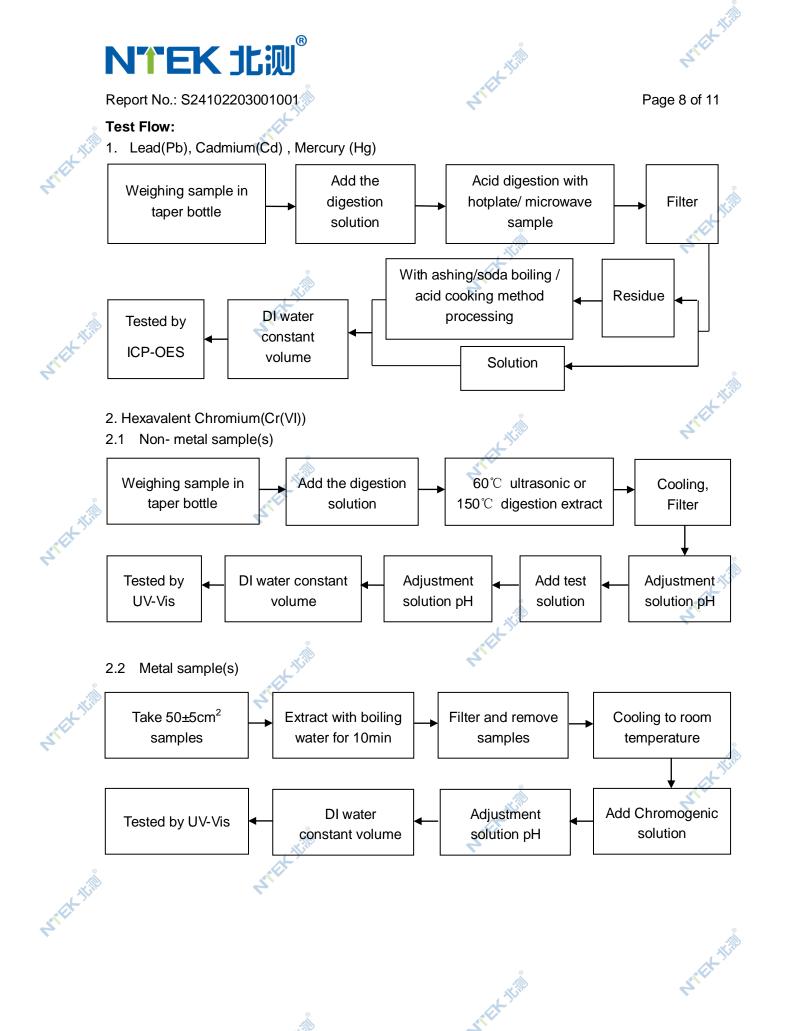
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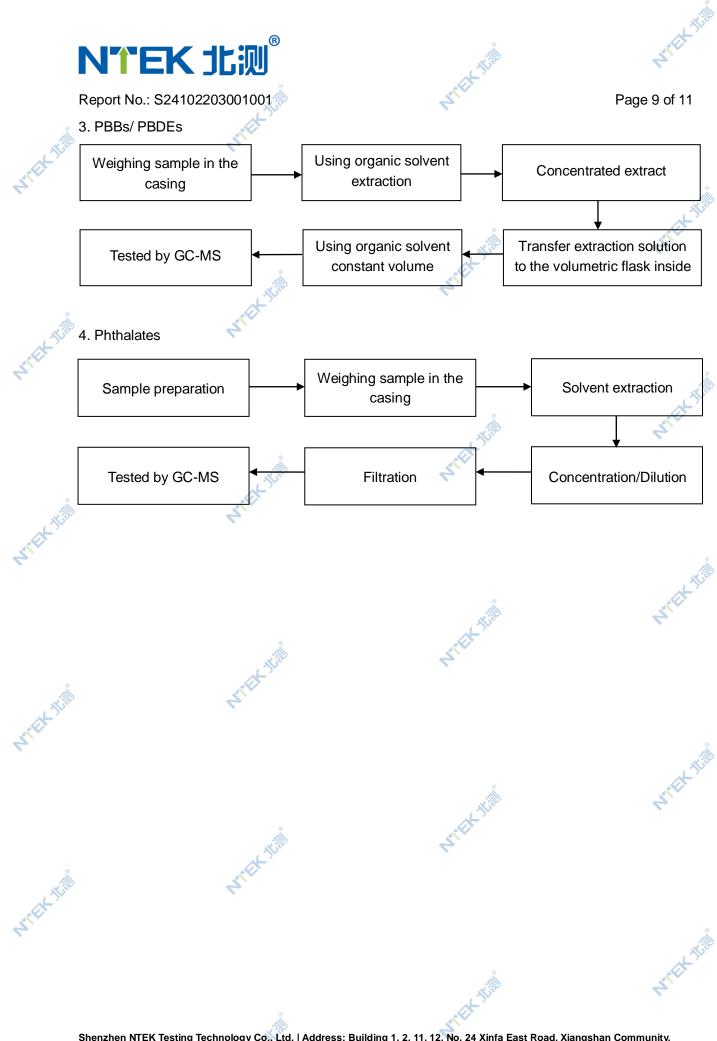
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TEX Trill	Test item	Test method	Test instrument	MDL	Limit△
4.	Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	1000 mg/kg
	Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	100 mg/kg
	Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000 mg/kg
	Hexavalent	IEC 62321-7-1:2015 Ed.1.0	UV-Vis	0.10 µg/cm <sup>2</sup>	1000 mg/kg
	Chromium(Cr(VI))	IEC 62321-7-2:2017 Ed.1.0		8 mg/kg	1000 mg/kg
ATTER THE	Polybrominated Biphenyls(PBBs)	EC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg	1000 mg/kg
	Polybrominated, Diphenyl Ethers(PBDEs)	Diphenyl IEC 62321-6:2015 Ed.1.0		5 mg/kg	1000 mg/kg
	Bis-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-8:2017 Ed.1.0	GC-MS	30 mg/kg	1000 mg/kg
	Benzyl butyl Phthalate (BBP)	IEC 62321-8:2017 Ed.1.0	GC-MS	30 mg/kg	1000 mg/kg
ATTEK TEN	Dibutyl Phthalate (DBP)	EC 62321-8:2017 Ed.1.0	GC-MS	30 mg/kg	1000 mg/kg
	Diisobutyl Phthalate (DIBP)	IEC 62321-8:2017 Ed.1.0	GC-MS	30 mg/kg	1000 mg/kg
	AThe limit is quoted	from RoHS Directive (EU) 2015/863	amending Anne	ex II to Directive	2011/65/EU.
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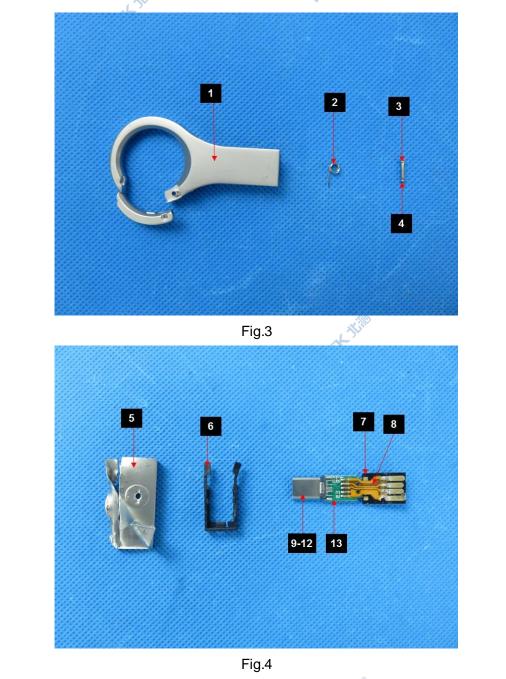
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### \*\*\*\*End of Report\*\*\*\*

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