



Page 1 of 8

# **TEST REPORT**

Applicant: Address:

,STEK I

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:	Key/KS
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.:
 S241022030014

 Sample Received Date:
 2024-10-24

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

## **Test Requirement:**

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);

Nina.Cor May Li

Reviewed by:

Date:

Luetta Mo

Compiled by:

Approved by:

2025-01-06





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## Sample Description:

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No.	Sample name	Description	
1		Silver metal shell of shell	
2		White double-sided adhesive of shell	
3	USB Flash Drives	Black double-sided adhesive of shell	×
4	_	Black plastic of shell	1 CT
5		Black PCB of USB interface	4

## Test Result(s):

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

	Part No.	Test Items		XRF Screening Result(mg/kg)	Chemical Test Result(mg/kg)	Conclusion		
			Pb	BL		216		
			Cd	BL		-		
			Hg 🔊	BL		_		
	1	Cr	Cr(VI)	IN	N.D.	Pass		
		_	PBBs	,	/	-		
		Br	PBDEs	/	/	-		
			Pb	BL	/			
			Cd	BL	/			
	0		Hg	BL	<u> </u>			
	2	Cr	Cr(VI)	BL	June 1	Pass		
		D.,	PBBs		1	-		
		Br	PBDEs	BL				
			Pb	BL	/			
~	3 -	2		Cd	BL	/	-	
, <b>"</b>				Hg	BL	/	Pass	
		Cr	Cr(VI)	BL	/	Pass		
		Br	PBBs	BL	/	STER		
		DI	PBDEs	DL	<u> </u>			
	4		Pb	BL				
8					Cd	BL		
			Hg	BL	1	Pass		
	-	Cr	Čr(VI)	BL	/	1 000		
		Br	PBBs	BL	/	_		
4			PBDEs		/	NYTEK.		





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5		Pb	BL	/	
	Cd		BL	/	Deep
	Hg		BL	/	
	Cr	Cr(VI)	BL	/	Pass
	D.,	PBBs	IN	N.D.	2(S)
	Br	PBDEs		N.D.	1 Contraction of the second se
				Him	~

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

Toot Itoma	Result(mg/kg)			
Test Items	2+3	4	5	
Bis-(2-ethylhexyl) Phthalate (DEHP)	96	N.D.	N.D.	
Benzyl butyl Phthalate (BBP)	N.D.	N.D.	N.D.	
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D. 🞺	
Diisobutyl Phthalate(DIBP)	N.D.	N.D.	N.D.	
Conclusion	Pass	Pass	Pass	

Note:

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

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  $0.10 \ \mu g/cm^2$  and  $0.13 \ \mu g/cm^2$ , 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.

Remark:

k: 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.

		3 3 3 3		-		
4.	Element	Limit of IEC 62321-3-1:2013 Ed.1.0 (mg/kg)				
		Polymers	Metals	Composite material		
	Pb	BL≤(700-3σ) <Χ	BL≤(700-3σ) <x _å<="" th=""><th>BL≤(500-3σ)&lt;Χ</th></x>	BL≤(500-3σ)<Χ		
		<(1300+3σ)≤OL	<(1300+3σ)≤OL	<(1500+3σ)≤OL		
AT HEL 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		
	Cr	BL≤(700-3σ)< X	BL≤(700-3σ)< X	BL≤(500-3σ)< X		
	Br	BL≤(300-3σ)< X	/	BL≤(250-3σ)< X 🔬 🔊		
				NYTEK.		
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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



2. Chemical Test

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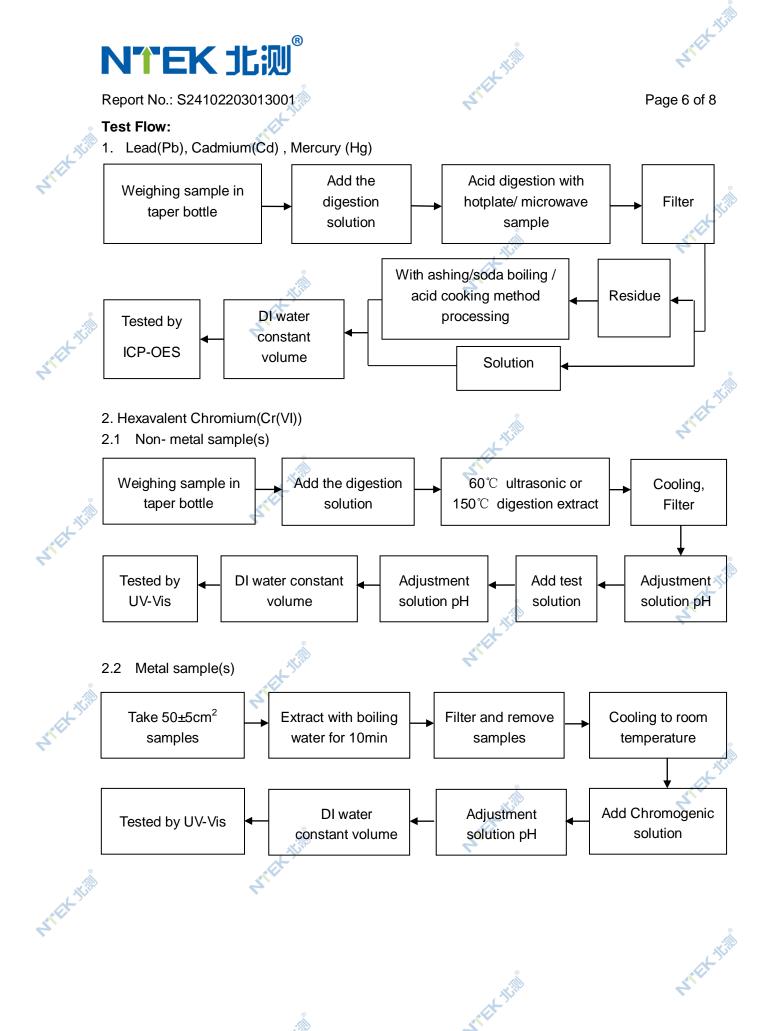
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TEK Trill	Test item	Test method	Test instrument	MDL	Limit△
4,	Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	1000 mg/kg
	Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	100 mg/kg
	Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000 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
	Polybrominated Biphenyls(PBBs)	EC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg	1000 mg/kg
ATTER TIM	Polybrominated, Diphenyl Ethers(PBDEs)	IEC 62321-6:2015 Ed.1.0	GC-MS	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
WIEKT	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
	<sup>A</sup> The limit is quoted from RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.				
			AT THE		ATTE:

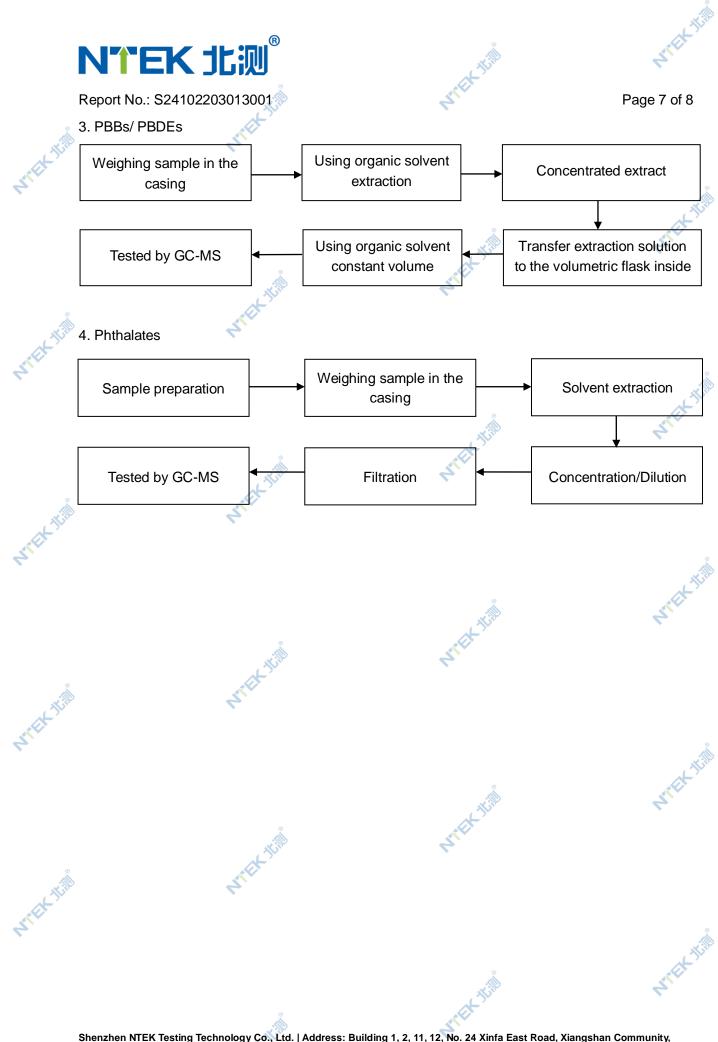
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Shenzhen NTEK Testing Technology Co., Ltd. | Address: Building 1, 2, 11, 12, No. 24 Xinfa East Road, Xiangshan Community, Xingiao Street, Bao'an District, Shenzhen, Guangdong, China | Tel: +86-0755-2320 0050 | <u>http://www.ntek.org.cn</u> Complaint Tel: +86-0755-23218370 | Complaint E-mail: complaint@ntek.org.cn

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### Sample photo(s):



Fig.1 Finished photo





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# \*\*\*\*End of Report\*\*\*

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