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TEST REPORT

Applicant: Flashbay Electronics

Address: 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: Gyro/GY

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.: S2410220300012

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

(20) 2010/000 amonamy function to Directive 2011/00

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

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

Nina.Car Compiled by:		Reviewed by:	Luetta Mo	Luetta Mo	
Approved by:	May Li	Date:	2024-11-11	ELY	



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Sample Description:

No.	Sample name	Description
1		White plastic shell of shell
2		White plastic rod of shell
3		Transparent plastic shell of shell
4		Silver metal clasp of shell
5	USB Flash Drives	Silver metal ring of shell
6		Silver metal screw of shell
7	1 Time	Black plastic shell of USB interface
8	THE STATE OF THE S	Silver metal shell of USB interface
9		Black PCB of USB interface

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

	po, .o (,	ory or or milator	Diplicity: Ethers(i	<u> </u>	
	Part No.	Test Items		XRF Screening Result(mg/kg)	Chemical Test Result(mg/kg)	Conclusion
		Pb		BL	/	
		Cd		BL	/	
	4		Hg	BL	/	Dana
	1	Cr	Cr(VI)	BL	/	Pass
		D.	PBBs	DI	<u></u> /	N.E.
		Br	PBDEs	BL	C. King /	4
			Pb 👗	BL	1	
			Cd Yim	BL	1	
	2		Hg	BL	/	Door
	2	Cr	Cr(VI)	BL	/	Pass
		Br	PBBs	BL	/	
			PBDEs		/	
Ī			Pb	BL	/	A.
			Cd	BL	<i>i</i> 1	Zitt
	3		Hg	BL	1 1	Pass
	3	Cr	Cr(VI)	BL		Fass
		Br	PBBs	BL	/	
			PBDEs		/	
			Pb	OL	19148 ^{#1}	
			Cd	IN	19	
	4		Hg	BL	/	Pass
	4	Cr	Cr(VI)	BL	· /	Fass
		Br	PBBs	,	Will 1	4,
		DI	r PBDEs /			



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. topoit i toi.	<u></u>	3001100			. age e e. e
5		Pb	BL	/	
		Cd	BL	/	
		Hg	BL	/	Pass
	Cr	Cr(VI)	IN	N.D.	Pa55
	Б.	PBBs	/	/	ر مار
	Br	PBDEs	/	<u></u> 1	
		Pb	IN	N.D.	
		Cd	BL	1	
6		Hg Liftin	BL	1	Pass
O	Cr	Cr(VI)	BL	/	Fass
	Br	PBBs	,	/	
	DI	PBDEs	/	/	
		Pb	BL	/	
	Cd		BL	/	at the second
7		Hg	BL	/ /	Pass
1	Cr Br	Cr(VI)	BL		Pass
		PBBs	BL		
	ы	PBDEs	DL	1	
		Pb	BL	/	
		Cd	BL	/	
8		Hg	BL	/	Pass
0	Cr	Cr(VI)	BL	/	Pass
	Br	PBBs	/	<u> </u>	
		PBDEs		Kille /	4.
9		Pb	BL	1	
		Cd William	BL	7	
		Hg	BL	/	Pass
	Cr	Cr(VI)	BL	/	1 055
	Rr	PBBs	IN	N.D.	
	Br	PBDEs	IIN	N.D.	

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

Test Items	Result	(mg/kg)
rest items	1+2+3+7	9
Bis-(2-ethylhexyl) Phthalate (DEHP)	N.D.	N.D.
Benzyl butyl Phthalate (BBP)	N.D.	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.
Diisobutyl Phthalate(DIBP)	N.D.	N.D.
Conclusion	Pass	Pass 🔑



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1.N.D. = Not Detected (<MDL) Note:

MDL = Method Detection Limit 1 mg/kg = 1 ppm = 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/cm², 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 µg/cm², 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 µg/cm² and 0.13 µg/cm², 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.

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

> 2. According to the client's statement, the material of the sample(s) comply with RoHS directive 2011/65/EU Annex III Exemption, Corresponding exemption clause:

#1 6(c) Lead is exempted as copper alloy containing up to 4% lead by weight.



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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.

Elamant.	Limit of IEC 62321-3-1:2013 Ed.1.0 (mg/kg)			
Element	Polymers	Metals	Composite material	
DL	BL≤(700-3σ) <x< td=""><td>BL≤(700-3σ) <x td="" 👗<=""><td>BL≤(500-3σ)<x< td=""></x<></td></x></td></x<>	BL≤(700-3σ) <x td="" 👗<=""><td>BL≤(500-3σ)<x< td=""></x<></td></x>	BL≤(500-3σ) <x< td=""></x<>	
Pb	<(1300+3σ)≤OL	<(1300+3σ)≤OL	<(1500+3σ)≤OL	
04	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)<>	
Cd	(130+3σ) ≤OL	(130+3σ) ≤OL	≤OL	
Hg	BL≤(700-3σ) <x< td=""><td>BL≤(700-3σ)<x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<></td></x<>	BL≤(700-3σ) <x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<>	BL≤(500-3σ) <x< td=""></x<>	
	<(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	

Note: BL= Below the XRF screening limit

OL=Over the XRF screening limit

X=The symbol"X"marks the region where further investigation is necessary.

 3σ =The reproducibility of analytical instruments

LOD= Detection limit

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2. Chemical Test

	Test item	Test method	Test instrument	MDL	Limit△
	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	41)///60	0.10 µg/cm ²	1000 mg/kg
	Chromium(Cr(VI))	IEC 62321-7-2:2017 Ed.1.0	UV-Vis	8 mg/kg	1000 mg/kg
^	Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg	1000 mg/kg
	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
	Dibutyl Phthalate (DBP)	IEC 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
A=1 11 14 1 4 1 4		·		5:	0044/05/57

△The limit is quoted from RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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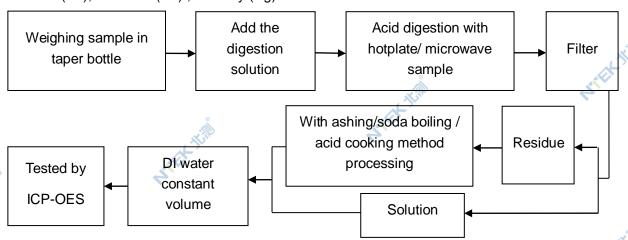
N'EK Jija



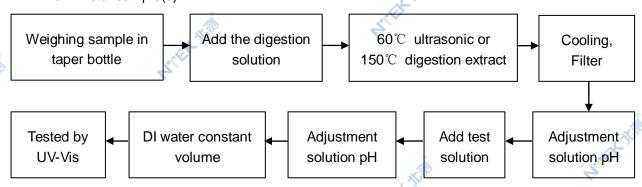
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Test Flow:

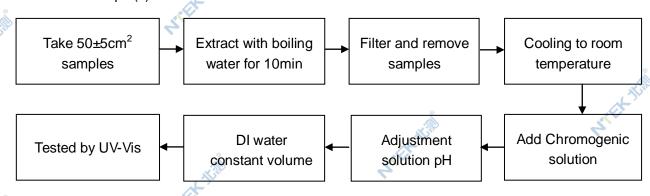
1. Lead(Pb), Cadmium(Cd), Mercury (Hg)



- 2. Hexavalent Chromium(Cr(VI))
- 2.1 Non- metal sample(s)



2.2 Metal sample(s)

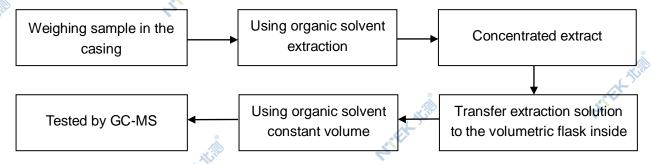




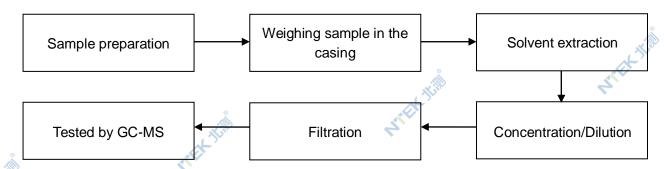
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3. PBBs/ PBDEs



4. Phthalates





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Sample photo(s):



Fig.1 Finished photo

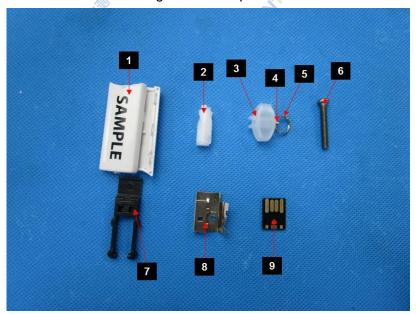


Fig.2

****End of Report****

The test results or data in this report will be used only for education, scientific research, enterprise product development and internal quality control or other purposes.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of NTEK, this report can't be reproduced except in full.

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

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