



Page 1 of 12

TEST REPORT

Applicant: Address:

STEL

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:Wireless ChargersModel:Forest/FRManufacturer & Factory:Flashbay ElectronAddress:Building2 , Jixun In

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

Sample No.: Sample Received Date: Testing Period:

S241022030036 2024-10-24 2024-10-24~ 2024-11-30

Test Requirement:

Conclusion

Pass

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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.

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

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

Nina.Car May Li

Reviewed by:

Luetta Mo

Compiled by:

Approved by:

Date:

2025-01-06

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Page 2 of 12

ATEL Hill

Sample Description:

Kin	No.	Sample name	Description				
St.	1		Yellow wood of shell				
	2		Transparent colloid of shell				
	3		Black colloid of shell				
	4		White plastic sheet with glue of shell				
	5		Gray rubber pad of shell				
	6	Mobile Power Bank	Silver metal shell of type-c interface				
	7		Black plastic of type-c interface				
	8		Metal plug pin of type-c interface				
	9		Green PCB				
	10		Magnet core of PCB				
	11		White cotton thread of PCB				
	12		Core of wire of PCB				
	13		Red capacitor of PCB	L'			
	14		Yellow transparent adhesive tape of PCB	•			
	15		Tin solder of PCB				

Test Result(s):

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

$\begin{tabular}{ c c c c } \hline Part No. & \hline Test Items & $XRF Screening \\ Result(mg/kg)$ & $Chemical Test \\ $Result(mg/kg)$ & $Chemical Test \\ $Result(mg/kg)$ & $Result(mg/$,			
$1 \begin{array}{c c c c c c c c }\hline \hline Cd & BL & / \\ \hline Hg & BL & / \\ \hline Hg & BL & / \\\hline \hline Cr & Cr(VI) & BL & / \\\hline \hline PBBs & BL & / \\\hline PBDEs & BL & / \\\hline \hline PBDEs & BL & / \\\hline \hline Cd & BL & / \\\hline \hline Cd & BL & / \\\hline \hline Hg & BL & / \\\hline \hline Cr & Cr(VI) & BL & / \\\hline \hline Pass & Pass \\\hline \end{array}$	_	Part No.	Part No.	Test Items	0.	-		Conclusion		
$1 \begin{array}{c c c c c c c } \hline Hg & BL & / \\ \hline Cr & Cr(VI) & BL & / \\ \hline Cr & Cr(VI) & BL & / \\ \hline Br & PBBs \\ \hline PBDEs & BL & / \\ \hline PBDEs & BL & / \\ \hline Cd & BL & / \\ \hline Cd & BL & / \\ \hline Hg & BL & / \\ \hline Cr & Cr(VI) & BL & / \\ \hline Pass & Pass \\ \hline \end{array}$				Pb 🔬		BL	/			
Pb BL / Cd BL / Hg BL / Cr Cr(VI) BL /				Cd Cd		BL	/			
Pb BL / Cd BL / Hg BL / Cr Cr(VI) BL /		4	1	Hg		BL	/	Deee		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1 Kill	1		Cr Cr(VI)	С	BL	/	Pass		
Pb BL / Cd BL / Hg BL / Cr Cr(VI) BL /	A CONTRACTOR OF THE OWNER OWNER OF THE OWNER OWNE OWNER OWNE			PBBs			/			
2 Cd BL / Hg BL / Pass Pass				PBDEs	В	BL	/			
2 Hg BL / Pass 2 Cr Cr(VI) BL /			Pb		BL	/	× ×			
2 Cr Cr(VI) BL / Pass				Cd		BL	/	STE		
Cr Cr(VI) BL /			0	0		Hg		BL	/	Daar
Br PBBs BL / PBDEs BL / Pb BL /			Z	Cr Cr(VI)	С	BL		Pass		
PBDEs / /					PBBs			/		
Pb BL /	, A			PBDEs	В	BL	/			
	at w			Pb		BL	/			
Cd BL /	S ^r			Cd		BL	/			
Ha Bl /		3		Hg		BL	/	Dees		
3 Cr Cr(VI) BL / Pass			3	Cr Cr(VI)	С	BL	<u>⊚</u> /	Pass		
PBBs / /				PBBs		Ы	Kill I	4		
Br PBDEs BL /				PBDEs	В	BL				

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Report No.: S24102203035001



		ド記》		ANTER HIS	ATTER ST	
	Report No.:	S24102203035001		4	Page 3 of 12	
©		Pb	BL	/		
Hill		Cd	BL	/		
MTEK TE	4	Hg	BL	/	Pass	
4.	4	Cr Cr(VI)	BL	/	F 855	
		Br PBBs	BL	/	- A Lint	
		PBDEs	DL	<u> </u>	A CONTRACTOR OF THE OTHER	
		Pb	BL	/		
		Cd	BL	/		
	5	Hg	BL	/	Pass	
NTEK TIM		Cr Cr(VI)	BL	/	_	
at su		Br	BL	/		
- Str		PBDEs		/	©	
		Pb	BL	/	Pacetorithe	
		Cd	BL	/		
	6	Hg	BL		Pass	
		Cr Cr(VI)	IN	N.D.	_	
		Br PBBs	/		_	
		PBDEs		/		
A Think		Pb Cd	BL		_	
WTEX THE			BL		_	
4	7	Hg Cr Cr(VI)	BL		– Pass 💧	
				- PBBs -:		
		Br PBDEs	BL			
		Pb 🙎	BL			
		Cd	BL			
8	-	Hg	BL		-	
N'EK III	8	Cr Cr(VI)	BL	/	Pass	
Et.		PBBs		/		
4.		Br PBDEs	/	/		
		Pb	BL	/	AL STAT	
		Cd	BL	/		
	9	Hg	BL	/	Pass	
	9	Cr Cr(VI)	BL		F 055	
		Br PBBs	IN	N.D.		
N. S.		PBDEs		N.D.		
MTEK Jil		Pb	BL	/	_	
- Art		Cd	BL	/		
	10	Hg	BL	/	– Pass 🖉	
		Cr Cr(VI)	BL			
		Br PBBs	/		7	
		PBDEs				

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Report No.: S24102203035001

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Page 4 of 12

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	Report No.:	S24102203	3035001		ATTE.	Page 4 of 12	
8			Pb	BL	/		
with Hill		(Cd	BL	/		
	11	I	Hg	BL	/	Pass	
4.	11	Cr	Cr(VI)	BL	/	Pass	
		Br	PBBs	BL	/	- Alist	
-			PBDEs		<u> </u>	St. C.	
			Pb	BL	/		
		(Cd 🔬	BL	/		
	12	I	Hg A	BL	/	Pass	
	12	Cr	Cr(VI)	BL	/	1 035	
A Jun		Br	PBBs	/	/		
WTEK HI		DI	PBDEs	/	/		
			Pb	BL	/		
		Cd	Cd	BL	/	- Deservice Sill	
	40	I	Hg	BL	/	Pass	
	13	S Cr Cr(VI) Br PBBs	BL		Pass		
			PBBs BL	Ы			
8		DI	PBDEs	DL	/		
Ali Martin	14		Pb	BL	/		
WIEKI			(Cd	BL	/	
24		l	Hg	BL	/	Daaa	
	14	Cr	Cr(VI)	BL	/	– Pass	
		Br	PBBs PBDEs	BL		with	
-			Pb	IN	34		
			Cd	BL	/		
(i) (i)		15 Hg BL Cr Cr(VI) BL			/		
Hill	15		/	– Pass			
ANTER JUN			PBBs		/		
4.		Br	PBDEs	/	/		
					at Will	WELL	

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Page 5 of 12

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

STIEK '	Test home	Result(mg/kg)				
4	Test Items	2+3		5		
	Bis-(2-ethylhexyl) Phthalate (DEHP)	N.D.	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		
A Kin						
WIEKS	Test house	Result(mg/kg)				
•	Test Items	7+12	0 1	1 1/		

ATTE.	Taat karaa	Result(mg/kg)				
*	Test Items	7+13	9	11	14	
	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.	
®	Diisobutyl Phthalate(DIBP)	N.D.	N.D.	N.D.	N.D.	
Kill	Conclusion	Pass	Pass	Pass	Pass	
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Report No.: S24102203035001

- 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

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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/cm², the coating is considered a non- Cr(VI) based coating;

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Page 6 of 12

The sample is positive for Cr(VI), if the Cr(VI) concentration is greater than 0.13 μ g/cm², The sample coating is considered to contain Cr(VI);

The result is considered to be inconclusive, the Cr(VI) concentration is between the $0.10 \ \mu g/cm^2$ 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.

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Remark:

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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.

		0 00 0					
4	Element	Limit of IEC 62321-3-1:2013 Ed.1.0 (mg/kg)					
		Polymers	Metals	Composite material			
	Pb	BL≤(700-3σ) <x< th=""><th>BL≤(700-3σ) <x< th=""><th>BL≤(500-3σ)<Χ</th></x<></th></x<>	BL≤(700-3σ) <x< th=""><th>BL≤(500-3σ)<Χ</th></x<>	BL≤(500-3σ)<Χ			
		<(1300+3σ)≤OL	<(1300+3σ)≤OL	<(1500+3σ)≤OL			
ATTER HIN	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			
			A STA	MIEL.			

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.

 3σ =The reproducibility of analytical instruments

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LOD= Detection limit

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2. Chemical Test

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Page 8 of 12

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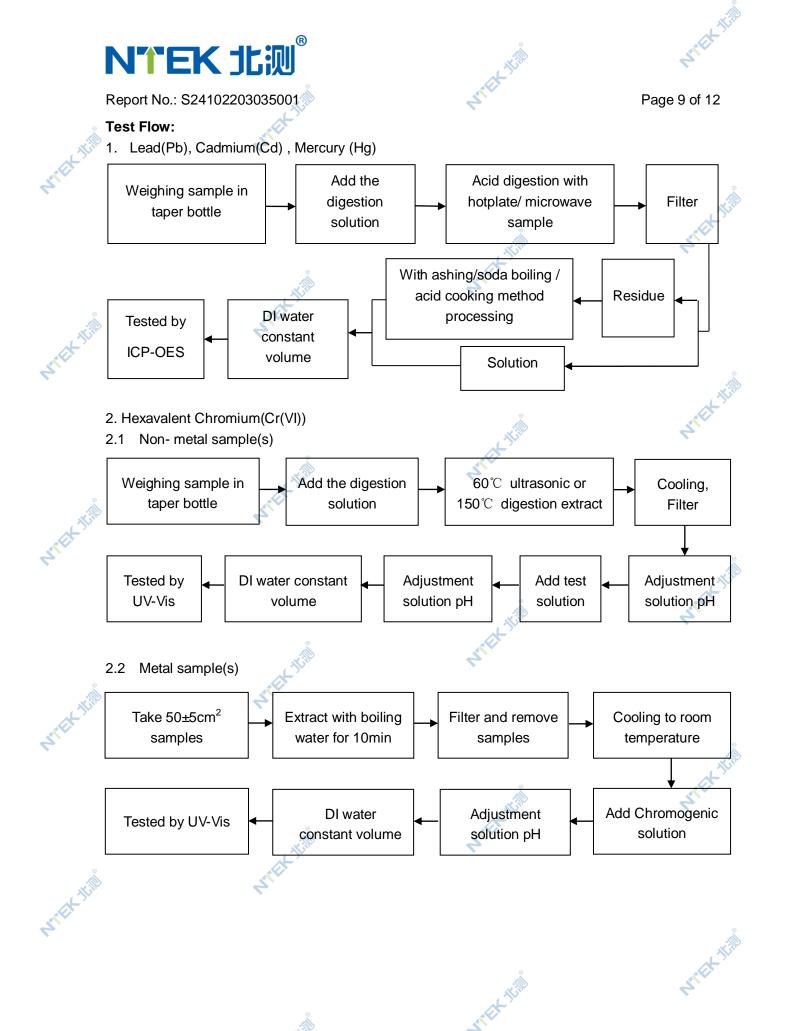
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TEK Trill	Test item	Test method	Test instrument	MDL	Limit△	
4,	Lead (Pb) IEC 62321-5:2013 Ed.1.0		ICP-OES	2 mg/kg	1000 mg/kg	
	Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	100 mg/kg	
	Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000 mg/kg	
	Hexavalent	IEC 62321-7-1:2015 Ed.1.0	UV-Vis	0.10 µg/cm ²	1000 mg/kg	
	Chromium(Cr(VI))	IEC 62321-7-2:2017 Ed.1.0		8 mg/kg	1000 mg/kg	
ATTER TIM	Polybrominated Biphenyls(PBBs)	EC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg	1000 mg/kg	
	Polybrominated, Diphenyl IEC 62321-6:2015 Ed.1.0 Ethers(PBDEs)		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	
TEX TIM	Dibutyl Phthalate (DBP)	EC 62321-8:2017 Ed.1.0	GC-MS	30 mg/kg	1000 mg/kg	
AN'ER!	Diisobutyl Phthalate (DIBP)		GC-MS	30 mg/kg	1000 mg/kg	
	^A The limit is quoted from RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.					
			- Mill		ATTE:	

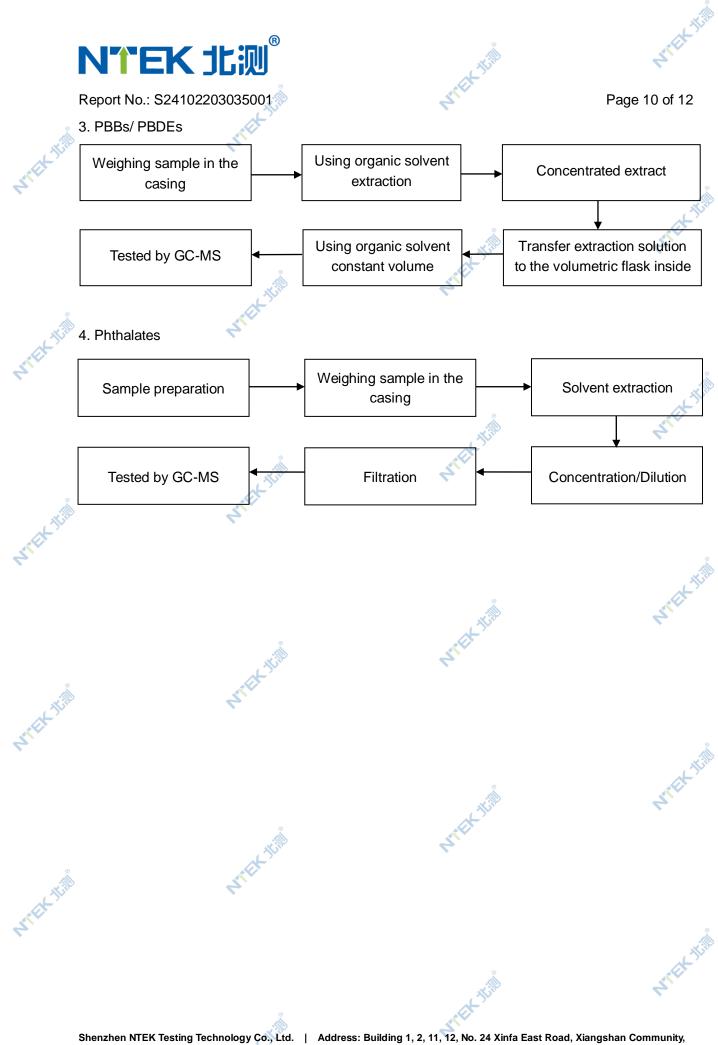
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Page 11 of 12

Sample photo(s):



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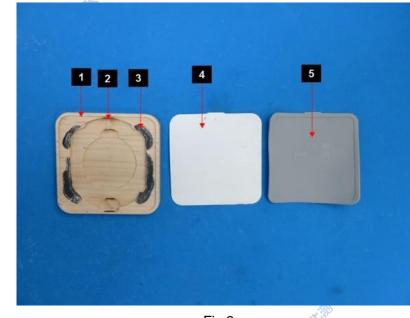
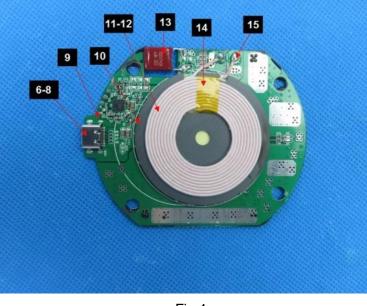


Fig.3





****End of Report****

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