

No.SZR151021017001

Date: Nov. 02, 2015

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Applicant	
Address	

The submitted sample and sample information was/were submitted and identified by/on the behalf
of the clientSample name:Power BankType /model:P324.751Manufacturer:/Sample received date:Oct. 21, 2015Testing period:0ct. 21, 2015 to Nov. 02, 2015Test requested:1. As specified by client, to screen Lead(Pb), Cadmium(Cd),

1. As specified by client, to screen Lead(Pb), Cadmium(Cd), Mercury(Hg), Chromium(Cr) and Bromine(Br) in the submitted sample(s) by XRF.

2. As specified by client, when screening results exceed the XRF screening limit in IEC 62321-3-1:2013, further use of chemical methods are required to test the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs) in the submitted samples.

According to the RoHS Directive 2011/65/EU

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

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



Shenzhen Anbotek Compliance Laboratory Limited

Tested by

Address: East of 4/F, Building A, Hourui No.3 Industrial Zone, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China Tel:(86)755-260666061 Fax:(86)755-26066021 Email:service@anbotek.com

Inspected by



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Test Method:

A. Screening test by XRF spectroscopy

XRF screening limits in mg/kg for regulated elements according to IEC 62321-3-1:2013.

Element	Limit of IEC 62321-3	Anboit MDL Jotek		
	Polymers and metals	Composite material	Polymers	Other material
Pb	BL≤(700-3σ) <x <(1300+3σ)<br="">≤OL</x>	BL≤(500-3σ) <x <(1500+3σ)<br="">≤OL</x>	10 mg/kg	50 mg/kg
Cd	BL≤(70-3σ) <x <(130+3σ)<br="">≤OL</x>	LOD≤(50-3σ) <x <(150+3σ)<br="">≤OL</x>	10 mg/kg	50 mg/kg
bote Hg	BL≤(700-3σ) <x <(1300+3σ)<br="">≤OL</x>	BL≤(500-3σ) <x <(1500+3σ)<br="">≤OL</x>	10 mg/kg	50 mg/kg
An ^b Cr	BL≤(700-3σ)< X	BL≤(500-3σ)< X	10 mg/kg	50 mg/kg
Br	BL≤(300-3σ)< X	BL≤(250-3σ)< X	10 mg/kg	50 mg/kg

Note:

-BL = Under the XRF screening limit

-OL = Further chemical test will be conducted while result is above the screening limit

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

-3 σ = The reproducibility of analytical instruments

-LOD= Detection limit

B. Chemical Test

Test Item(s)	Test Method	Measured Equipment(s)	AnbMDL
Lead (Pb)/ Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4:2013 Ed.1.0	ICP-OES	2 mg/kg
	IEC 62321-7-1:2015 Ed.1.0	UV-VIS	/ And
Hexavalent Chromium Cr(VI)	IEC 62321:2008 Ed.1 Annex C	UV-VIS	2 mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg

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Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion
nboten Anbo	Pbotek Pbote	nb tek BL nbotek	Anbor An	Lotek Ant	
	Plack plantin	Cd poten	Anbo BL botek	Anbgro	nu
P'1 note	Black plastic shell	And tek Hg botek	Anbor BL An	sk hoten	PASS
Anbore	shell Annootek	Cr(Cr(VI))	AnboBL Ano	rek / botek	Anbore
Anbr	Lek botek	Br(PBBs&PBDEs)	ek BLiek An	Pot / Pit pote	Anboten
tek A	100' A'' LOLE	Anb Pb Anb	BLotek	Anbore / Ano	tek abote
	And And	Cd Cd	BL BL	Anboten Anb	at p
2 ex	Grey plastic	Hg	Anbore BLAND tek	A Agodo	PASS
Anbo	block	Cr(Cr(VI))	hotek BL Anbo	K Lotek	Anboten A
Aupor	An botek	Br(PBBs&PBDEs)	botBL Anbot	Any otek	anbotek
Anbo	Annetok	hote Pb Anbo	BLek and	pret And tek	botek
ek pr	potek Anboten	Cd Market	AN BL LOK	abotek / Anbox	k Lotek
ooteV3	Black plastic	Hget	BL of	botek Anbo	PASS
	small circle	Cr(Cr(VI))	abotek BLabore	And Alexand	potek Anbo
	Anbote, Ano	Br(PBBs&PBDEs)	hin hotek BL anboten	AND	abotek Ar
Anboten	And	potek Pbanbon	An ateBL apote	Anbo	hotek
nbote	Anbotek	Lotek Cd Anboron	Anna BLK abo	rek Aupore	Ann
4	Silver small	Hg	An ^b BL A	botek Anbote	PASS
	screws	Cr(Cr(VI))	otek pBL	tek / poote	K Aupor
	no sek noot	Br(PBBs&PBDEs)	wotek Anbotes	And Jack	otek Anbot
nboten	Anboy An	otek Pb	tek BL abotek	Anbor	wotek ant
	Anbore An	dek Cd poter	LOD hotek	Anbgion	np- rek
5 otel	Battery	And tek Hg abotek	Anbor BL Ant	ek looter	PASS
5 Anbote	tek Anbotek	Cr(Cr(VI))	Anb ^o BL And	tek botek	Anbore
Aup	inbo	Br(PBBs&PBDEs)	Lek BLien An	por I note	Anboten
tek A	bo, br	Pb Note	BLootek	Anbor An	tek nbote
	Yellow	Cd	BL otek	Anboren Anbo	rek p
6		Hg otek	Anbore BL And stek	anboyen A	PASS
And	double-side tape	Cr(Cr(VI))	Anbore BL Anbo	K botek	PASS
Anbotek	all Anobotek	Br(PBBs&PBDEs)	nbotBL Anbot	and botek	Anbotek

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pote	no stek noo	An Pb	BL, boten	Andonal	otek Anbore
nbotek	Anbo Angelan	Cd ^{oto}	he BL botek	Anbor	wotek and
Ant Totek	Golden yellow	tek Hg botek	Anbo BL hotek	Anbgro	PASS
An	tape	Cr(Cr(VI))	Anbot BL And	ex poter	Anboteleo A
AUD	lek abotek	Br(PBBs&PBDEs)	AnboBL Anbo	Lek botek	Anbote
PUP.	let botek	Anboi Pb And	ek BLeek An	k / hore	Anboret
otek p	hote Ant	K AnbCd AnbC	LOD	Anbore / Ano	ek potek
8 2000	Green PCB	Hgten A	BL tek	Anboter Anbo	PASS
nb stek	board	Cr(Cr(VI))	Anboren BLANDO Lek	aboy A	pore Ann
AUPO	h botek	Br(PBBs&PBDEs)	hoboten X Ander	N.D.	Anboten An
Pupo	K hotek	Anbote Pb Anbe Lek	botBL Anbot	An tek	anboten
Anbo	And stek	chote Cd Anbor	BLek Anb	Pupp Pupp	h. botek
(e ¹⁴ 9	Electrode slice	Hg Anbo	BL	abotek / Anbot	PASS
tek	abotek Anbor	Cr(Cr(VI))	BL BL	botek Anbo	And
bo	botek Anbe	Br(PBBs&PBDEs)	abotek Anbor	An work an	poter Anbo
Aupor	An Lotek A	Pb	botek BL Anbort	Ann	abotek Ant
Anboten	And	abotek CdAnbor	BL Anbote	And	botek
10,000	Red jacket	hotek Hg Anboro	And BLK abo	tek Nipor	PASS
ek Ant	otek Anbore	Cr(Cr(VI))	AndBL	botek Anbore	Anber
Pri.	botek Anboten	Br(PBBs&PBDEs)	otek pBL	stek I subote	K Anbo
, , , , , , , , , , , , , , , , , , ,	botek Anbot	Pb	hotek BLabore	And Ver day	otek Anbor
Anbotek	Anbo	Cd	otek BL nootek	Anbo	hotek Anbr
An11 ok	Black jacket	hotek Hg.nbote	And tekBL abotek	A Para	PASS
hote	Anbote	Cr(Cr(VI))	Anbo BL A	ex hooter	Anbo
An	tek Anbotek	Br(PBBs&PBDEs)	AnboBL	stek spotek	Anbor
Pur	botek Anbotek	Anbo Pb	tek ATBLIE An	rek / botel	Anboro
otek A		Kno Cd	stek BLpotek	Anbor An	tek Anboten
12	Soldering tin	Hg Hg	BL botek	Anboron Anbo	PASS
hotek	Anbotan Anb	Cr(Cr(VI))	Anboth BL Ann BL Ann	A "Yoday	bo. P.
Ann	abotek p	Br(PBBs&PBDEs)	Anbote Anbo	K potek	Anboten An

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poter I	no botek Anbo	Pb	BL botek	Anbo	otek Anbore
Anbotek	Anbo Ak	Cd	he BL botek	Anbor	Lotek Anb
13	Big USB metal	tek Hg boten	Anbo BL notek	Anbgro	PASS
Anbotel	Anbotek	Cr(Cr(VI))	Anbor BL Ann	ex hoter	Anbo
And	tek anbotek	Br(PBBs&PBDEs)	Anboter Anb	rek botek	Anbote
PUD.	rek botek	Pb An	Lek BLieh An	or I hote	Anbote
otek A'		Cd	BLootek	Aupor / Aun	tek nbotek
mbol 14	Big USB inner	Hg	BL otek	Anborer Anb	PASS
Anbotek	plastic	Cr(Cr(VI))	Anboro BLAND tek	A Node	ibors Ann
12 C 1	abotek I	Br(PBBs&PBDEs)	Anboten BL Anbo	K Lotek	Anboten An
Aupo	AK NOTEK	Pb And tek	botBL Anbot	Annotek	Anboten
Anbot	Dis LICD ins stek	Cd And	BLek Anb	Aup sek	hobotek
e* 15 m	Big USB inner	Hg	BL	nbotek / Anbo	PASS
tek.	pin Anbote	Cr(Cr(VI))	BL BL	botek Anbo	And
100 . ek	a botek Anbo	Br(PBBs&PBDEs)	nbotek Anbor	An Lot A An	poter Anbo
Anbor	An wotek A	Pb	botek BL Anbort	Ann	nbotek Ant
Anbotek	And	Cd Marken	LOD	And	botek
16	Black IC	hotek Hg Anbort	BLx abo	tek Nipor	PASS
ek Anb	Black IC	Cr(Cr(VI))	BL	botek Anbore	Anber
All	hotek Anboten	Br(PBBs&PBDEs)	otek pBL	stek / Anbote	K Anbo
por p	Anbotek Anbo	Pb	hotek BLabore	And yes	otek Anbor
Anbotek	Anbo	Cd	LOD	Anbo	hotek Anbr
An17°K	Chip capacitor	Lote Hg bote	And telBL spotek	Aupoli	PASS
Anbotel	Anbotek	Cr(Cr(VI))	Anbo BL An	ex hooter	Anbo
Pur	Lek Anbotek	Br(PBBs&PBDEs)	Anb ^o BL And	stek botek	Anbotek
Pup	tek abotek	Pb	tek hox An	424	Anboro
otek Ar	bos An hote	Cd And	LOD	Anbor Ano	tek Anbotek
18 ¹ /201	Chip resistor	Hg	BL botek	Anboro/ Anb	PASS
Lotek		Cr(Cr(VI))	Anbor BL An tek	nboyer At	
And	abotek p	Br(PBBs&PBDEs)	Anbote BL Ano	K potek	Anbotek An

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poter I	nobotek Anbo	Pb	BL boten	Anbo	otek Anbore
nbotek	Anbor An	otek Cdore	LOD botek	Anbot	stek onb
19	Chip diode	Hg poter	Anbo BL hotek	Anbgro	PASS
Anbotel	Anbotek	Cr(Cr(VI))	Anbor BL Am	ek hotek	Anbor
And	tek nbotek	Br(PBBs&PBDEs)	Anbol X Anb	N.D. otek	Anbore
AUD	rek botek	Anbo Pb An	BL'en An	ok / hote	Anbote
otek A	Chinakina wasad	K Cd And	LOD	Aupor / Au	tek nbotek
20	Chip wire wound	Nek Hgren M	BL stek	Anboter Anb	PASS
Anbotek	inductor	Cr(Cr(VI))	Anbore BLAND tek	aboy A	por An
And	abotek I	Br(PBBs&PBDEs)	Anboten BL Anbo	K botek	Anbote, An
Anbo	ok botek	Anbole Pb And tek	botBL Anbot	Am	Anboten
Anbor	Small LISP	Cd And	BLek Anb	Aug tek	abotek
10× 21 11	Siliali USD	boHg Anbo	BL	nbotek / Anbo	PASS
botek	metal	Cr(Cr(VI))	BL BL	botek Anbo	And
100 vek	abotek Anbo	Br(PBBs&PBDEs)	nbotek Anbot	hotek An	poten Anbo
Anbo	A" Lotek A	Pb Pb	botek BL Anbote	And	nbotek Ant
Anbote		nboten CdAnbo	BL Anbote	And Lak	botek
22,001	Small USB inner	botek Hg Anbota	BL	ter Aupor	PASS
ek anb	black plastic	Cr(Cr(VI))	AndBL	botek Anboro	Ano
Pr.	botek Anboter	Br(PBBs&PBDEs)	oten AX	N.D. habott	Anbo
por p	notek Anbot	Pb	hotek BLabote	And	otek Anbor
Anbotek	And	otek Cd	n BL Anboten	Anbo	botek Anb
23	Small USB inner	hotek Hg.nbote	And tevBL abotek	Anbor	PASS
Anbotel	ater hab	Cr(Cr(VI))	And BL	ek Alooten	AUPO
Anbo Anbotek	Br(PBBs&PBDEs)	Anbor Ant	stek potek	Anbotek	
Ann	botek Anbotek	Pb Pb	Lek ArBLten An	per in potel	Anboro
D. P.	Switch block	Anb Cd And	stek BLpotek	Anbor An	rek Anboter
24		tek Hgter A	BL botek	Anboro And	PASS
botek		Cr(Cr(VI))	Anbor BLAM stek	A "Yodan	DU PI
Ann	nbotek p	Br(PBBs&PBDEs)	Anbotes BL Anbo	K potek	Anbor An

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poto P	nº tek nboi	ek AnPb	BL, boten	Ando	otek Anbor
Anbotek	Anbo lak	Cd ^{otok}	ne BL abotek	Anbor	Lotek Anb
25	Switch metal	Hg noter	Anbo BL hotek	Anbgro	PASS
All hotel	Anboten	Cr(Cr(VI))	Anbor BL Ann	ek hotek	Anbo
And	tek Anbotek	Br(PBBs&PBDEs)	Anbote Ano	kek / potek	Anbore
AUD	And Lak botek	Anbo Pb An	Lek BLiek An	ok / hote	Anbote
26 Switch white	K And Cd And	BL otek	Aupor / Au	tek abotek	
	tek Hgren M	BL over	Anbote Anb	PASS	
nº otek	plastic	Cr(Cr(VI))	Anbore BLAND tek	aboy M	por Au
And	abotek p	Br(PBBs&PBDEs)	Anboten BL Anbo	K potek	Anbote. Ar

Note:

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL)

-mg/kg = ppm = parts per million

-Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.02 mg/kg with 50cm² sample surface area used.

-Positive = Presence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is equal to or greater than 0.02 mg/kg with 50cm^2 sample surface area used.

Remark:

- The screening results are only used for reference.

- 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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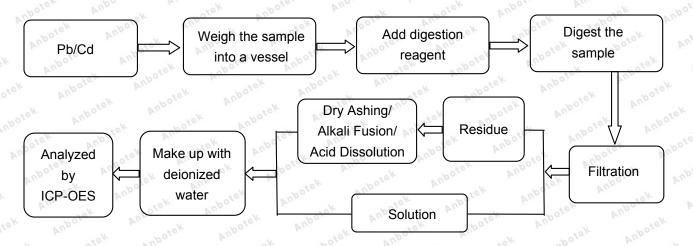
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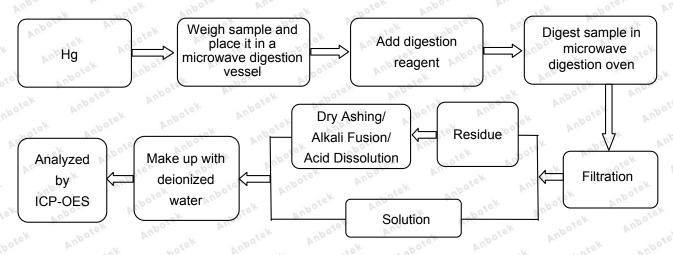
Test Process:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

• IEC 62321-5:2013 Ed.1.0



• IEC 62321-4:2013 Ed.1.0



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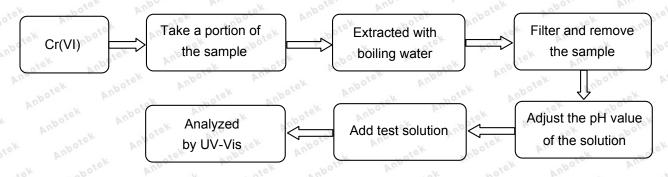


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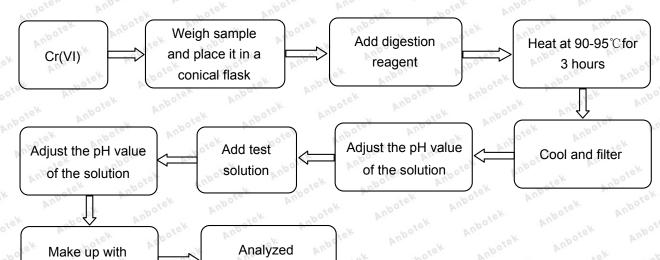
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IEC 62321-7-1:2015 Ed.1.0



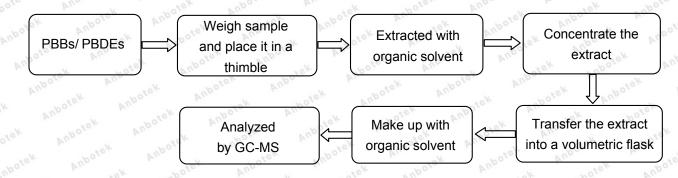
IEC 62321:2008 Ed.1 Annex C



by UV-Vis

IEC 62321-6:2015 Ed.1.0

deionized water



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Photograph of Sample



Photo(s) of the tested component(s)



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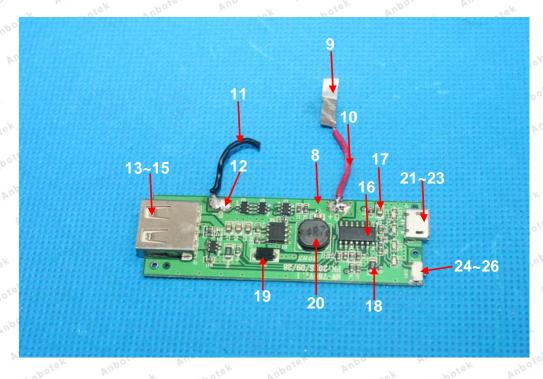
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***** End of Report *****

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