

Report No.: SZARR190222014-01

Test Report

Client Name :

Address :

Product Name : POWER BANK

Date : Mar. 01, 2019

Shenzhen Anbotek Compliance Laboratory Limited





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Applicant Address

The submitted sample and sample information was/were submitted and identified by/on the behalf

of the client

Sample Name **POWER BANK**

Model No. Manufacturer

Trade Mark Cager

Sample Received Date Feb. 22, 2019

Testing Period Feb. 22, 2019 to Mar. 01, 2019

Test Requested As specified by client, to test the Lead(Pb), Cadmium(Cd),

Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated

Biphenyl(PBBs) and Polybrominated Diphenyl Ethers (PBDEs) in the submitted sample in accordance with 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)

Tested by

Test engineer

Reviewed by /W`M

Niki You

Test engineer

Your House Anbotel Leo Li * Approved *Authorized signatory

Compliance

Shenzhen Anbotek Compliance Laboratory Limited



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Test Method:

A. XRF Screening Test

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

P.Up.	Limit of IEC 62321-3-1:2013 Unit (mg/kg)				
Element	Polymers	Metals	Composite material		
Cd	BL≤(70-3σ) <x <(130+3σ)≤ol<="" td=""><td>BL≤(70-3σ) <x <(130+3σ)≤ol<="" td=""><td>LOD<x <(150+3σ)≤ol<="" td=""></x></td></x></td></x>	BL≤(70-3σ) <x <(130+3σ)≤ol<="" td=""><td>LOD<x <(150+3σ)≤ol<="" td=""></x></td></x>	LOD <x <(150+3σ)≤ol<="" td=""></x>		
Pb	BL≤(700-3σ) <x <(1300+3σ)≤OL</x 	BL≤(700-3σ) <x <(1300+3σ)≤OL</x 	BL≤(500-3σ) <x <(1500+3σ)≤OL</x 		
Hg	BL≤(700-3σ) <x <(1300+3σ)≤OL</x 	BL≤(700-3σ) <x <(1300+3σ)≤OL</x 	BL≤(500-3σ) <x <(1500+3σ)≤OL</x 		
Br	BL≤(300-3σ)< X	N.A.	BL≤(250-3σ)< X		
Cr Acco	BL≤(700-3σ)< X	BL≤(700-3σ)< X	BL≤(500-3σ)< X		

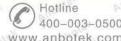
Note:

- -N.A. = Not Applicable
- -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
- -3σ= The reproducibility of analytical instruments
- -LOD= Detection limit

B. Chemical Test

Test Item(s)	Test Method	Measured Equipment(s)	MDL	Limit
Lead (Pb)	IEC 62321-5:2013	DOJE Y PUD	2 mg/kg	1000 mg/kg
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	2 mg/kg	100 mg/kg
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	Aupote N	2 mg/kg	1000 mg/kg
11. a a d 2 1 0 1 a a d 2 0 0 0 0 0 0	IEC 62321-7-1:2015	111/1/10	0.10µg/cm ²	1000 mg/kg
Hexavalent Chromium Cr(VI)	IEC 62321-7-2:2017	UV-VIS	2 mg/kg	
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	00.140	5 mg/kg	1000 mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS	5 mg/kg	1000 mg/kg

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Test Results:

Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion
600	Tek Tholek	Pb	BE BE	Thols:	Pupolo
	\M/hita plaatia	Cd	BL ₁₀ 1e ^{ll}	Anthon / An	Jek Majore
Produ	White plastic	Hg	BL malek	Pupare, Tue	PASS
	shell	Cr(Cr(VI))	BL	ORCA _{EL} B	opo, by
	nbotek.	Br(PBBs&PBDEs)	BL	/odek	Pulpore b
Pupp	Natore Nater	Pb	-BL	(P2)	"John
	Oil come as a stall	Cd	BL	/	obolek
18 2 K	Silvery metal	Hg	BL	/	PASS
7816	block	Cr(Cr(VI))	X	Negative	Vien
	w. Hotek Ant	Br(PBBs&PBDEs)	N.A.	/	Pup.
Pupou	No sale	Pb"	woter BL and	T / Kek	Puporen B
	\M/bita plaatia	Cd Market	BL ANDOL	F. 0	Antone
3 Antro	White plastic button	Hg Hg	BL	oten Pulpor	PASS
	Dutton	Cr(Cr(VI))	BL	Holek / Ambala	And Jek
	solok Anbote	Br(PBBs&PBDEs)	Porak Broom	Sie Villa	ar Anbo
pote	Anti-	Pb	HOLON BLANDOLD	AIRE IN	potak Anbo
Anbatak	Dioak plactic	Cd	AD STOK BL STORES	Ribby /	notel.
4natek Anatek	Black plastic jacket	Hg and dist	BL NOW	P. P.A.	PASS
	jacket	Cr(Cr(VI))	Nupo BL Pro	otel Inboten	Allbo
Person	Antodna Nato	Br(PBBs&PBDEs)	An BL And	set / spotek	Pupper
24	alpha Nat	Pb	otek BLorek I	upo. 1 kg	ex Pupose.
	Pod plastia	Cd	BL Work	Authors / Par	otal kabo
5. ¹⁴	Red plastic jacket	Hg	Mupo. Br. Br.	Pupord, Vi	PASS
	jacket	Cr(Cr(VI))	Amboto BL Amb	- Notek	Anbor ak Ar
ballan	Ye toolol.	Br(PBBs&PBDEs)	Knooten BL Andre	Notok / Notok	Anhora
	way water	Pb Annua	M BEN MID	I motely	Authorale
	ukota kum	Cd	BL	upone / pure	ik atbotek
6	Black foam	Hg	BL	subotek / Audio	PASS
	Suppley Yupo	Cr(Cr(VI))	Killholes Blands	AND TOTAL	ion Man
	Parale Maria	Br(PBBs&PBDEs)	abotal BL Antion	A THE P	upotok ku

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Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion
lig.	tek Pubbran	Pb	BL	/	24
	O'l an archatek	Cd	BE BE	wk / mole	Puppig
⁽⁶⁾ 7 *	Silvery metal	Hg	BL BL	Antico / Antico	PASS
	shell	Cr(Cr(VI))	BL motek	Anhale / An	les Vare
	Amboton An	Br(PBBs&PBDEs)	N.A.	^{GRO} L _{Gy} b	upo, by
Plus	"Upoter	Pb	BL	Joolek	Vapor
	NA Disability	Cd	BL	1	"JOINE
8 1000	Black inner	Hg	BL	/	PASS
	plastic	Cr(Cr(VI))	BL	/	1000
18%	anbotek Anbox	Br(PBBs&PBDEs)	BL	/	Non
. aW	Holek Ant	Pb	BL	/	P.U.
	W. J. C.	Cd	moter BL MAD	1 100	- nbotok
9 001024	Pin	Hg Miles	BL MOON	20	PASS
	Sk Vupper	Cr(Cr(VI))	BL _X	oten Pupp	Mus
	Polak Vullota	Br(PBBs&PBDEs)	N.A.	matek / Ambara	Pupe
- 36	work Aupore	Pb	Porak Broom	and Andro	William William
	O'I sale and a late	Cd	BL _{Mballa}	bus In	potak Anb
10	Silvery metal	Hg	ATT BL MOTOR	Wigney !	PASS
	shell	Cr(Cr(VI))	X X	Negative	VUR.
	ak senbatar	Br(PBBs&PBDEs)	N.A.	tak Impola	Mapa
Person	otek knbotek	Pb No	BL	solv / spoleh	AURO.
	Division salight	Cd	ate ^k BLo ^{set} 1	not leave l	ex suppose
11	Black inner	Hg	BL BL	Vupo, \ bii	PASS
	plastic	Cr(Cr(VI))	BL BL	Pupor) Vil	- 'ak
	Antiotek p	Br(PBBs&PBDEs)	BL Alle	Joseph .	Villa, K
belle	Silvery metal shell	Pb	Anbare BL Anbare	Lot / Motok	Aupore
		Cd	M BL MID	I Township	PURDIAN
12		Hg	BL	19000 / Pulls	PASS
		Cr(Cr(VI))	BL	Andrew / Andrew	P(1,
	spotek Kupo	Br(PBBs&PBDEs)	N.A.	1970	lose _k Pup _c



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Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion
l le	tek Puppen	Pb	BL	/	- 1/4-
	ation in abotek	Cd	BL P	ale / Jole	pripoles
13	Grey inner	Hg	BL and	Anthon / Anthon	PASS
	plastic	Cr(Cr(VI))	BL BL	Anhale / An	to. You
	Amboton An	Br(PBBs&PBDEs)	BL	^{GRO} L _{EL} b	opo, b.,
Plus "184	"Dole"	Pb	BL	/ootek	Vilhor
	Oil come and a tal	Cd	BL	1	"Olar
14 Mag	Silvery metal	Hg	BL	/	PASS
	frame	Cr(Cr(VI))	BL	/	NO. 025
-18YE	anbotek Antio	Br(PBBs&PBDEs)	N.A.	/	Ann
, alf	Holek An	Pb	BL	/	Mari
	N. S. Otale	Cd	moter BL MAD	1 1 100	salote 1
15	Black plastic	Hg M	BL Moot	F0)	PASS
	button	Cr(Cr(VI))	BL	oten Puppe	All otek
	Polak Vultore	Br(PBBs&PBDEs)	X	Matel N.D. Arthorn	Pup.
- 36	Polak Pupon	Pb	Portage Broom	arek/ Napo	We William
	0.1	Cd	BL _{Mballa}	Mary The	ootsk Anb
16	Silvery metal	Hg	ASS BL MOSES	Wigney.	PASS
	shrapnel	Cr(Cr(VI))	BL note	Post Inches	And stek
	ak ambatan	Br(PBBs&PBDEs)	N.A.	tak /mboles	MIDO
Ber	otell autoren	Pb	BL ATT	self / spotely	PURO.
	\M/bita plantis	Cd	otek BLover I	, no 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ex Wilpola
17	White plastic	Hg	BL Matek	Aupon / Po	PASS
	shell	Cr(Cr(VI))	ACIDO BL BL	Pupori, Vi	10%
	A shotek b	Br(PBBs&PBDEs)	sentrone BL Ame	- Joseph	Villo, V
Police	K "hotely	Pb	Kupate BL Kup	Jack / Notak	Autore
	Notek.	Cd	LOD	I Joseph	Puppish
18	Chip capacitor	Hg	BL	apole / but	PASS
	Anhotes Anhor	Cr(Cr(VI))	BL	August / Marie	- Paris
	notek Kribo	Br(PBBs&PBDEs)	upole BLupe	1970 1970	losey, Pupo



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148	- Astonia	Mos. by	Wales Vuo	- Vai	apple Arr
Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion
l po-	tak Annoisi	Pb	BL	/	- 46.
	otel abotek	Cd	LOD	tak / spots	Anbolo
19	LED	Hg	BL pole	Anho. Anho.	PASS
	Aupolo Aug	Cr(Cr(VI))	BL motels	Anhala / Ana	tos You
	Amboton Ar	Br(PBBs&PBDEs)	BL	"Pologo P	upo. por
Pur	* Upolek	Pb	BL	/potek	rupor
	W. Hotek	Cd	LOD	P2)	"olar
20	Chip inductor	Hg	BL	/	PASS
	Poles, Villa	Cr(Cr(VI))	BL	/	NO. 1003.5
181	Authorale Author	Br(PBBs&PBDEs)	BL	/	V.
W. Alex	-bolek An	Pb	BL	/	Va.
	P. J. Ofak	Cd	LOD	T / Kek	Valorak 1
21	Chip audion	Hg Athor	BL Moot	F01	PASS
	ek Anbo.	Cr(Cr(VI))	BL	oten Pupo	All
	potak Aupote	Br(PBBs&PBDEs)	BL	Holek / Ambala	Anth
- A	holak Aupol	Pb	BL'oo	and Autor	W. William
	Anti-	Cd	LOD	NULL PA	ootak Anb
22	IC.	Hg	ATT BL TOOKS	Piggio.	PASS
	Rupote	Cr(Cr(VI))	BL Hotel	r Pala	And stek
	all Amboter	Br(PBBs&PBDEs)	BL	tek Inpole	MIDO
Person	otell Matodale	Pb	BL	set / spolek	FURIA
	tow was	Cd	LOD	, no	ex Wilpola
23	Chip diode	Hg	BL Marek	Pupos / box	PASS
	Aupoto, Vur	Cr(Cr(VI))	Milan BL BL	Pupor Vi	10%
Viole View	Anhalek	Br(PBBs&PBDEs)	subject X Am	N.D.	Villo, V
bolls	K "potek	Aritho Pb Ph	BL Ann	tok / wotak	Autore
	bu. matek	Cd	LOD MIN	Par Mak	anhotek.
24	Chip resistor	Hg	BL	apoles / buth	PASS
	Kupotan Pupo.	Cr(Cr(VI))	X	N.D.	P111
Alg/E	shotek knb	Br(PBBs&PBDEs)	Madden BLinning	AND YOUR	loca, Post



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Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion
l le	tek pupoter	Pb	BL	/	.24
	Melode Apolek	Cd	BL P	look / Joles	Puppin
25	Soldering tin	Hg	BL sole*	Anho / A	PASS
	Authors Aug	Cr(Cr(VI))	BL motek	Anhara/ An	tos Vor
	Amboton Ani	Br(PBBs&PBDEs)	N.A.	"The Age of the	opo, by
Pur west	Vupote _k	Pb	BL	Joolek	Mapor
	ok abotek	Cd	LOD	1	"JOYEL
26	Green PCB	Hg	BL	/	PASS
	Poles Fun	Cr(Cr(VI))	BL	/	10035
Nev-	Vupotek Vupor	Br(PBBs&PBDEs)	X	N.D.	V.
Wo.	bolek Ant	Pb	BL	/	P.C.
	Dad as Sandad	Cd	BL Anom	1 100	A nihotek
27	Red enameled	Hg M	BL ANDOL	**/	PASS
	wire	Cr(Cr(VI))	BL	oten Pupp	Alle
	potak Anbota	Br(PBBs&PBDEs)	N.A.	Hotek / Amballa	Pup.
- 36	work Anbore	Pb	Br _{po}	STORY NOTES	N. Wille
	Cross spanish	Cd	BL, Hoole	bur. The	ootak Anb
28	Green enameled	Hg	At BL and ten	Ruppy /	PASS
	wire	Cr(Cr(VI))	BL BL	No.	And stek
-no	ex Anbote	Br(PBBs&PBDEs)	N.A.	stelk Imbalan	Pilipo
K Bu	otell autoten	Pb	BL And	January / Applier	Anbo
	Gold enameled	Cd	otek BLotek	1 1 100°	ex Auporg
29	Property of	Hg	BL Motel	Aupor Pur	PASS
	wire	Cr(Cr(VI))	Mugan BL Matek	Auporo Mi	Yak
an dela	Anhoten A	Br(PBBs&PBDEs)	N.A.	- Jolek	Anber ak
pen-	K abolak	Pb Pb	Market BL Annual	lok / Wotok	Aupara
	White soft plastic scarfskin	Cd	M BE AND	I malak	ALPOTAL
30		Man Hg	BL	ipose / bus	PASS
		Cr(Cr(VI))	BL	Amboten / Amou	otek Pubo
	spates Kupo	Br(PBBs&PBDEs)	under BLinns	True Yorken	Occ. Man



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Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion
li bis	tek pupotal	Pb	BL	/	No.
Paris	Cilvory motol	Cd	Make BE. W.	tak / shale	Pupole
31	Silvery metal shell	Hg	BL _b ote ^N	VURO. I bys	PASS
botak	Author Stiell	Cr(Cr(VI))	X X	Negative	in Varia
notak	Anboton An	Br(PBBs&PBDEs)	N.A.	" Age of the state	upo. br.
Pur	Modek	Pb	BL	Joolek	Myorg
Pupo	\//bita_innar	Cd	-BL	7	"Jotes"
32	White inner	Hg	BL	/	PASS
ale su	plastic	Cr(Cr(VI))	BL	/	, W. O. S.
1816	Authorak Author	Br(PBBs&PBDEs)	BL	/	ble.
Vo.	-bolek Ant	Pb	BL	/	bo,
Anboy	Disabilianos	Cd	Moter BL And	- I Hell	Anhotek
33	Black inner	Hg Anbou	BL Moot	80	PASS
orbo	plastic	Cr(Cr(VI))	BL	oten Pulpe	Vi. Cofey
16	Bolak Anhola	Br(PBBs&PBDEs)	POBL N	Holek / Anbala	Pur.
26	notek Anbore	Pb	BL BL	wotek/ Nopo	W. William
34	\\/\bita	Cd	notek BL nboth	bus 18	ootsk Anb
	White inner plastic	Hg/11016	All BL Madelan	Ruppy /	PASS
Apple A		Cr(Cr(VI))	BL more	P. P. Age	An olek
by.		Br(PBBs&PBDEs)	Multipar BL Programme	tak Inbaker	Allbo



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Note:

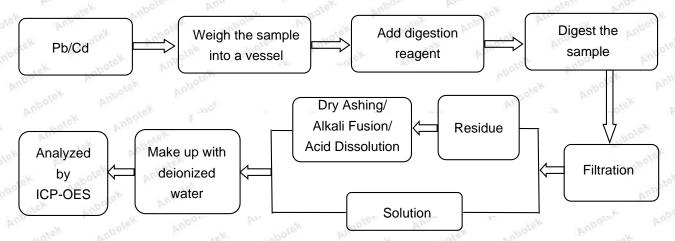
- The screening results are only used for reference.
- When conducting the test for PBBs&PBDEs, XRF was introduced to screen Br Exclusively; When conducting the test for Hexavalent Chromium, XRF was introduced to screen Chromium exclusively.
- -BL = Under the XRF screening limit
- -OL = Further chemical test will be conducted while result is above the screening limit
- -X= The symbol "X" marks the region where further investigation is necessary
- -LOD= Detection limit
- -MDL = Method Detection Limit
- -N.A. = Not Applicable
- -N.D. = Not Detected (<MDL)
- -/=Not tested
- -mg/kg = ppm = parts per million
- μg/cm² = microgramme per square centimetre
- -Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.10ug/cm².
- -Positive = Presence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is equal to or greater than 0.13ug/cm².



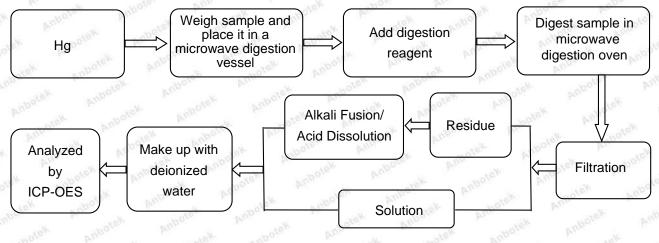
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Test Process:

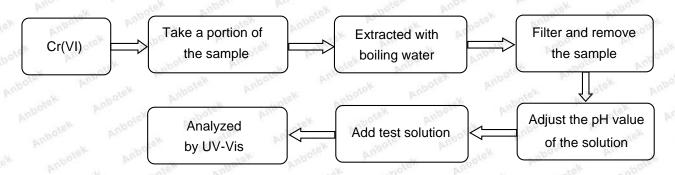
IEC 62321-5:2013



IEC 62321-4:2013+AMD1:2017



IEC 62321-7-1:2015

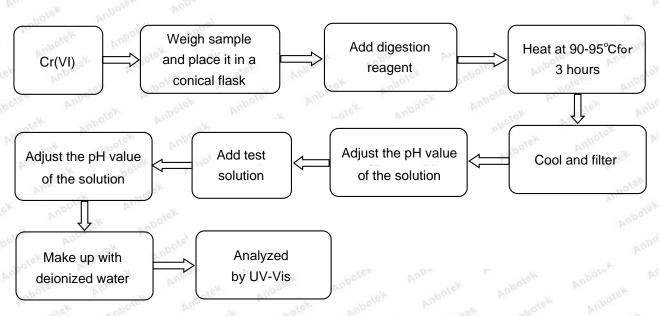


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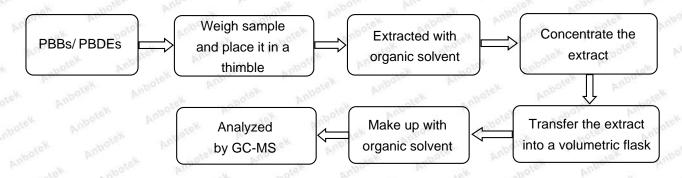


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◆ IEC 62321-7-2:2017



IEC 62321-6:2015





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Photograph of Sample



Photo(s) of the tested component(s)

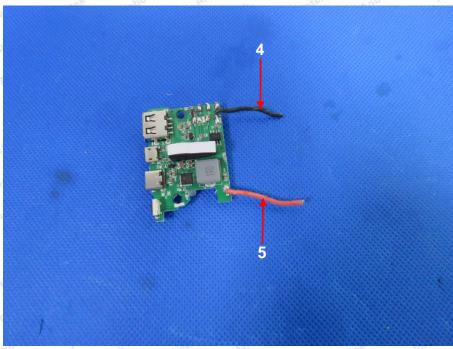


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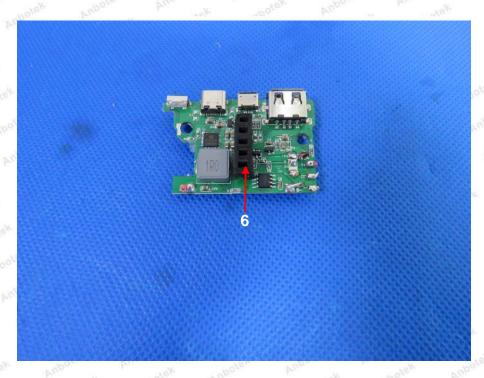
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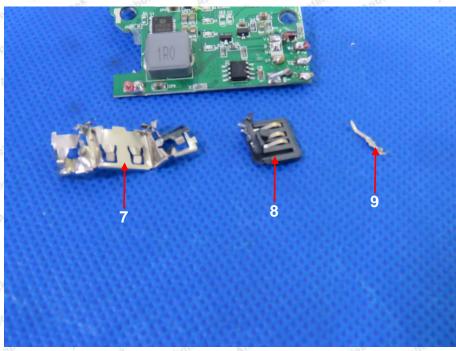






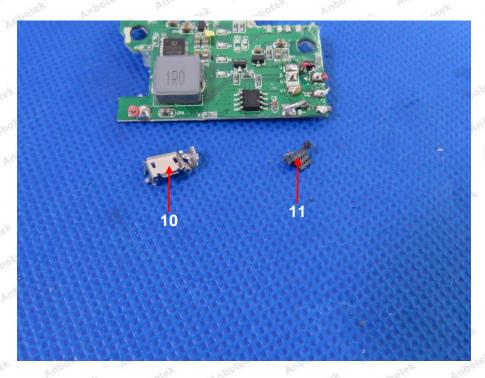
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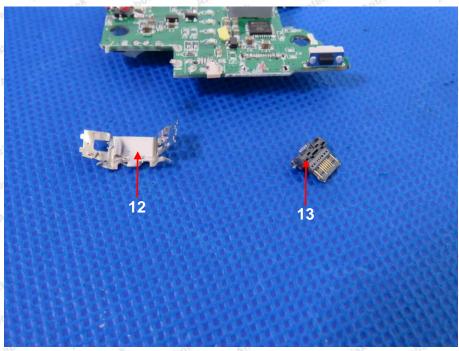






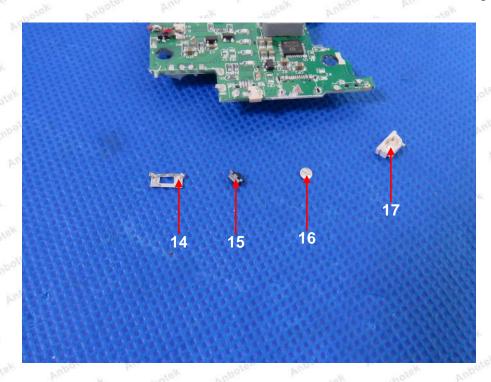
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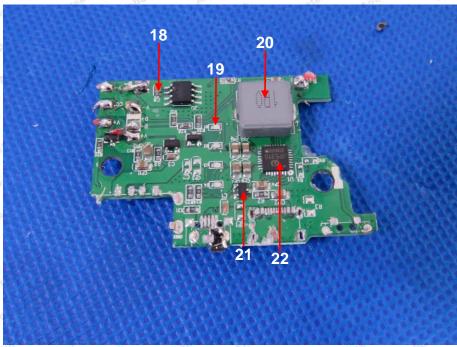






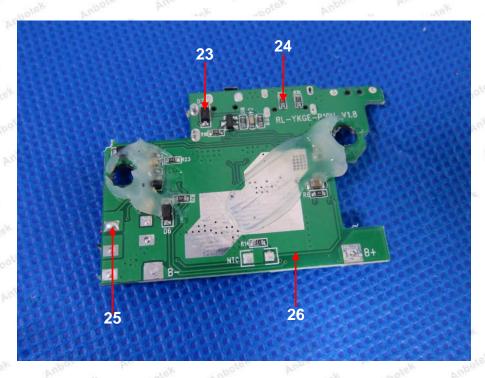
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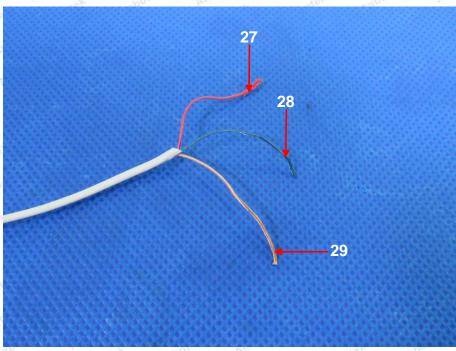






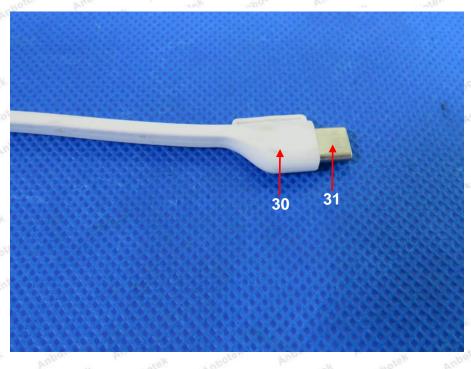
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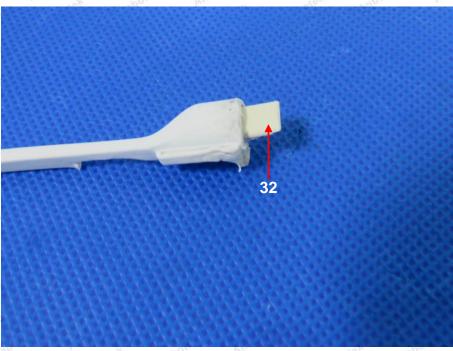






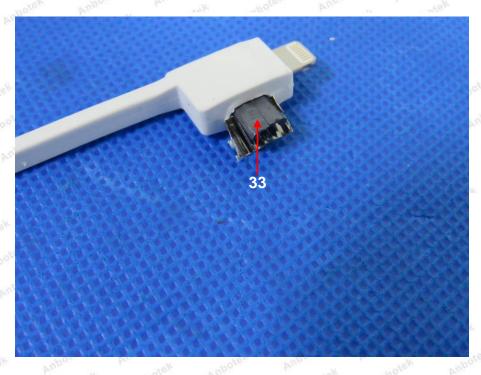
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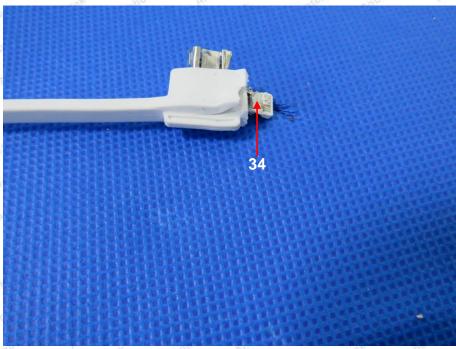






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***** End of Report *****

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 Anbotek, this report can't be reproduced except in full.

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