No.SZR160905004001	Date: Sep. 09, 2016	Page 1 of 8
Applicant	: Shanghai High-Flying Electronics Tec	hnology Co., Ltd
Address Anbotek Anbotek	: Room 1002,Building 1,No.3000,Longo Area,Shanghai,China,201203	dong Avenue,Pudong New
The submitted sample and s	sample information was/were submitted	and identified by/on the behalf
of the client Sample name	: HF-LPB125	tek Anbotek Anbotek
Type /model	: HF-LPB125	boten Anbo sek Abote
Manufacturer	Andotek Anboten Anbotek	Anbotek Anbor Ant
Sample received date	: Sep. 05, 2016	Anboten Anbo

Sample received date

ootek

Product Safety

Sep. 05, 2016 to Sep. 09, 2016

脸

眴

**Anbotek Testing** 

训

Test requested

**Testing period** 

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)

Tested by Inspected by



Address: 1/F,Buliding 1,SEC Industrial Park,No.0409 Qianhai Road,Nanshan District,Shenzhen, Guangdong,China Tel:(86)755-26066544 Fax:(86)755-26014772 Email:service@anbotek.com

Hotline 400-003-0500 www.anbotek.com

Sam



No.SZR160905004001

Date: Sep. 09, 2016

Page 2 of 8

#### 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	Notek MDLoote		
	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
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
Cr	BL≤(700-3σ)< X	BL≤(500-3σ)< X	10 mg/kg	50 mg/kg
Brek	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 $\sigma$ = The reproducibility of analytical instruments

-LOD= Detection limit

#### B. Chemical Test

Test Item(s)	o <sup>tek</sup>	Test Method	Measured Equipment(s)	MDL	Limit Anbo
Lead (Pb)	nbotek	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	1000 mg/kg
Cadmium (Cd)	Anbote	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	100 mg/kg
Mercury (Hg)	Anb	IEC 62321-4:2013 Ed.1.0	ICP-OES	2 mg/kg	1000 mg/kg
Hexavalent Chromium Cr(VI)		IEC 62321-7-1:2015 Ed.1.0	UV-VIS	And	1000 mg/kg
		IEC 62321:2008 Ed.1 Annex C	UV-VIS	2 mg/kg	1000 mg/kg
Polybrominated Bipher (PBBs)	nyls	IEC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg	1000 mg/kg
Polybrominated Diphenyl (PBDEs)	Ethers	IEC 62321-6:2015 Ed.1.0	GC-MS	5 mg/kg	1000 mg/kg

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F,Buliding 1,SEC Industrial Park,No.0409 Qianhai Road,Nanshan District,Shenzhen, Guangdong,China Tel:(86)755–26066544 Fax:(86)755–26014772 Email:service@anbotek.com Hotline 400-003-0500 www.anbotek.com



No.SZR160905004001

Date: Sep. 09, 2016

Page 3 of 8

Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion
nbotek	Anbotek Anbo	Pb	nboten BLnbo	boter Ant	ore. And
	bor An Lotek An	Cd	abotek BL Anbo	All Isek	nboten Ar
Anth	White label	nboten Hginbo	Lote BL Anboto	And	PASS
Anbotel	Anbor	Cr(Cr(VI))	BL nbo	er Woon	All botek
	lek Anbotek	Br(PBBs&PBDEs)	And BL K	ootek Anboro	And
sk k.	ootek Anbote	Pb.	KOK ABL	hotek / Anbote	Anb
	Cilvon (motol	Cd	Lotek BLoote	And Veter	stek Anbol
o <sup>tek</sup> 2	Silvery metal	Hg	tek BL notek	Anbo	PASS
Inbotek	And shell And	Cr(Cr(VI))	And Lek BL botek	Anbolt	n <sup>v</sup> stek
	Anbore	Br(PBBs&PBDEs)	Anbor Anna hote	k hooter	Anbo
An	sk nboten	And Pb botek	Anbo BL Ant	tek / botek	Anbor
Anbot	tek spotek	Cd	ek nBL Ant	or hotek	Anboten
3 An	White terminal	Anto Hg	ek BLotek	upot / Ann	PASS
tek.	Anbore Ano	Cr(Cr(VI))	BL over	Anbore Anb	
, otek	Anboten Anbo	Br(PBBs&PBDEs)	Anbor BLAnn tek	no total	
nº kek	abotek Ar	Pb	Anbote BL Anbo	L Jotek	Anboro
Anbotek	k hotek	Anbor Cd And tek	abot BL Anbor	An wotek	Anbotek
4 nbote	Contact pin	Inbote Hg Anbo	K BEK ANDC	You they	PASS
Anb	otek Anbots	Cr(Cr(VI))	BL	botek / Anbo	K hotel
Kek .	botek Anbor	Br(PBBs&PBDEs)	oter Aller	botek Anbor	And
.e.K	Anbotek Anbol	Pb	abotek BLabo	An Aster	oter And
botek	All	Cd	hotek LOD Mabol	Ann	potek A
Ant5tek	Stabilivolt	abotek Hg.nbot	Annote BL Anbote	And	PASS
Anbotek	audion	Cr(Cr(VI))	And BL abo	lek phot	Annatek
bolek Anboter	Br(PBBs&PBDEs)	And X	otek N.D. poter	Anbo	
K	otek Anboter	Pb	Kek ABL AT	notek Anbote	Aupor
ek Ar	APT AK SOLE	Cd	LOD	And Ver be	tek Anbot
6 Chip capacitor	Hg Hg	tek BL nbotek	Anbore And	PASS	
	Cr(Cr(VI))	And BL wotek	Anbolo		
	Br(PBBs&PBDEs)	Anbor BL And	K Nootek	Anbote	

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F,Buliding 1,SEC Industrial Park,No.0409 Qianhai Road,Nanshan District,Shenzhen, Guangdong,China Tel:(86)755-26066544 Fax:(86)755-26014772 Email:service@anbotek.com





No.SZR160905004001 Date: Sep. 09, 2016 Page 4 of 8

Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Chemical Test Unit (mg/kg)	Conclusion
otek A	Noter And	Bp K Mup	BL tek	Anbotek Anbo	otek Anbote
1ek	Anbotek Anbot	Cd	LOD	boter An	ore Ann
nb 7	Anbolic An	Hg	abotek BL Anbo	An	PASS
Anbotek	Ann botek	Cr(Cr(VI))	he BL Anbore	And	nbotek p
Anbote	Ano	Br(PBBs&PBDEs)	Ant Bk Anbo	er Mpo	Annotek
K AUPO	tek Anbo	hotePb Anbote	AND BL OK	potek Anbor	Antotek
.et	botek Anbote.	Cd	LOD	hotek Anbote	And
8	Crystal oscillator	An <sup>b</sup> Hg <sub>k</sub> k	borek Broord	And	PASS
nbote.	And stek	Cr(Cr(VI))	BL noter	Ando	botek Anbo
Anbotek	Anbo	Br(PBBs&PBDEs)	And tek	Anboy	in sek of
Anbotek	Anbor	Pb potek	Anbo BL An bot	A Arboret	And
A. NOT	Anbotek Anbotek	And tekCd abotek	LOD	stek Anbotek	Anbotek
9 <sup>knbot</sup>	Chip audion	And Hg	er AnBL Ant	ek / potek	PASS
ion Ant	ek potek	Cr(Cr(VI))	BLotek	inport / Am	lek Anboten
ootek	Anbor An	Br(PBBs&PBDEs)	BL botek	Anbote Ano	tek abot
botek	Anbote Ano	Pbotek	Anbor BLAN ustek	14 Noda	Por Pr
Ann	Anbotek Ar	Cd	Anbore LOD And	Lotek	Anbotek Ant
10	PCB	Anbor HgAn Hg	hoteBL Anbo	A Dotek	PASS
Anbote	Ann Anbotek	Cr(Cr(VI))	BEK Anb	In Ind stek	nbotek
K Anbr	And tek	Br(PBBs&PBDEs)	Xiet	hoter N.D.Anbo	K botek
otek h	aboten Anbo	Pb* Ant	BL	abotek / Anbot	An
.e¥	abotek Anboi	Cd	nboter BLnbo	his yest	otek Anbore
n <sup>bo</sup> 11	Soldering tin	Hg	abotek BL Anbor	Pur lek	PASS NO
Anbotek	Ann	Cr(Cr(VI))	An ote BL Anbote	And	abotek A
Anbotek	Anbo	Br(PBBs&PBDEs)	Ano	iek Wpote	Ann

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 50cm<sup>2</sup> 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<sup>2</sup> sample surface area used.

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F,Buliding 1,SEC Industrial Park,No.0409 Qianhai Road,Nanshan District,Shenzhen, Guangdong,China Tel:(86)755–26066544 Fax:(86)755–26014772 Email:service@anbotek.com Hotline 400-003-0500 www.anbotek.com

#### Anbotek Product Safety 文博检测 Anbotek Testing

### **Test Report**

No.SZR160905004001

Date: Sep. 09, 2016

Page 5 of 8

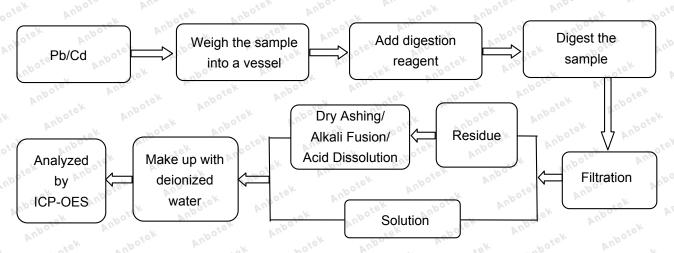
#### Remark:

- 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.

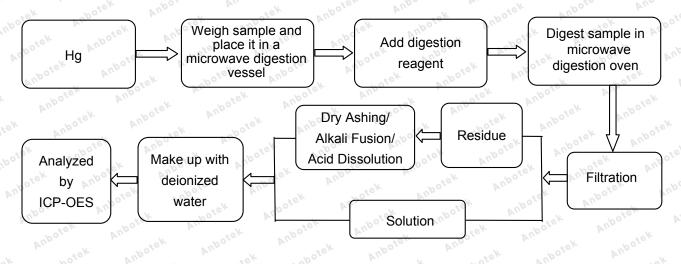
#### Test Process:

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

#### • IEC 62321-5:2013 Ed.1.0

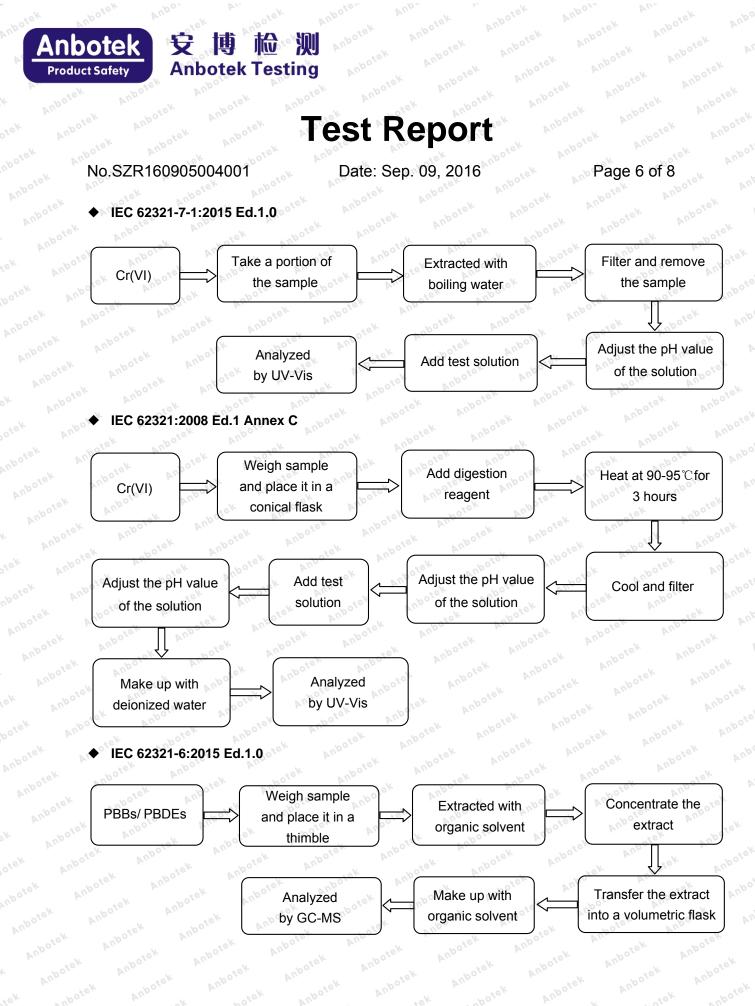


IEC 62321-4:2013 Ed.1.0



#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F,Buliding 1,SEC Industrial Park,No.0409 Qianhai Road,Nanshan District,Shenzhen,<br/>Guangdong,ChinaHotline<br/>400-003-0500<br/>www.anbotek.comTel:(86)755-26066544Fax:(86)755-26014772Email:service@anbotek.comwww.anbotek.com



#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F,Buliding 1,SEC Industrial Park,No.0409 Qianhai Road,Nanshan District,Shenzhen,<br/>Guangdong,ChinaHotline<br/>400-003-0500<br/>www.anbotek.comTel:(86)755-26066544Fax:(86)755-26014772Email:service@anbotek.comwww.anbotek.com



No.SZR160905004001

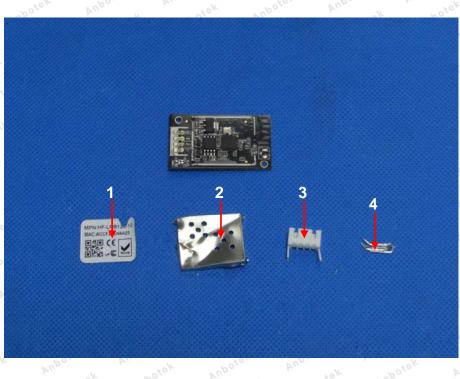
Date: Sep. 09, 2016

Page 7 of 8

Photograph of Sample



Photo(s) of the tested component(s)



#### Shenzhen Anbotek Compliance Laboratory Limited

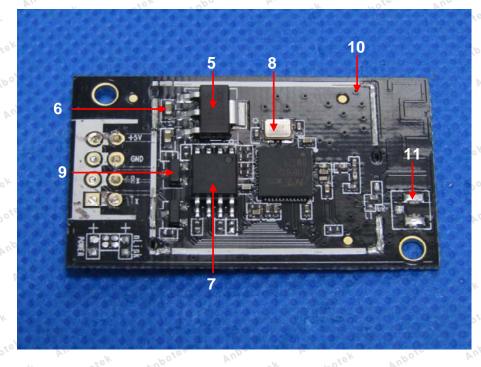
Address: 1/F,Buliding 1,SEC Industrial Park,No.0409 Qianhai Road,Nanshan District,Shenzhen, Guangdong,China Tel:(86)755–26066544 Fax:(86)755–26014772 Email:service@anbotek.com Hotline 400-003-0500 www.anbotek.com



### No.SZR160905004001

Date: Sep. 09, 2016

Page 8 of 8



#### \*\*\*\*\* 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.

#### Shenzhen Anbotek Compliance Laboratory Limited

Address: 1/F,Buliding 1,SEC Industrial Park,No.0409 Qianhai Road,Nanshan District,Shenzhen, Guangdong,China Tel:(86)755–26066544 Fax:(86)755–26014772 Email:service@anbotek.com

