

#### Report No.: A001R20170608043

Date: Jun.23, 2017

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Applicant:	Xindao B.	V.	
Address:	P.O. Box 3	308	2, 2280 GB, Rijswijk, The Netherlands
Report on th	e submitte	d sa	ample(s) said to be:
Sample Nam	e	:	Notos 2.200 mAh solar charger
Model		:	P323.833
Sample Rece	iving Date	:	Jun.08, 2017
Testing Peric	d	:	Jun.08, 2017 to Jun.23, 2017

Test Requested::Please refer to next page(s).Test Method:Please refer to next page(s).Test Result:Please refer to next page(s).

Tested by: Hui Su Luo

Luohuisu Test Engineer Suhongliang, Leon Test Team Leader

Reviewed by:

Approved by:

Jiangyuncheng, Jason

Laboratory Manager



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Conclusion

Pass

#### **Test Requested:**

1. As specified by client, to determine the Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs content in the submitted sample in accordance with EU RoHS Directive 2011/65/EU(RoHS) and its amendment directives on XRF and Chemical Method.

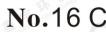
#### Test Result(s):

#### 1. Test Methods:

A: <u>Screening by X-ray Fluorescence Spectrometry (XRF)</u>: With reference to IEC 62321-3-1:2013 Ed 1.0 Screening – Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry
B: <u>Chemical test:</u>

Test Item	Test Method	Measuring Instrument	MDL
Cadmium (Cd)	IEC 62321-5:2013 Ed 1.0 Section 7	ICP-OES	2 mg/kg
Lead (Pb)	IEC 62321-5:2013 Ed 1.0 Section 7	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4:2013 Ed 1.0 Section 7	ICP-OES	2 mg/kg
Non-metal Hexavalent Chromium (Cr <sup>6+</sup> )	IEC 62321-7-2:2017 Ed 1.0	UV-Vis	1 mg/kg
Metal Hexavalent Chromium (Cr <sup>6+</sup> )	IEC 62321-7-1:2015 Ed 1.0	UV-Vis	T The
PBBs/PBDEs	IEC 62321-6:2015 Ed 1.0	GC-MS	5 mg/kg

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**Test Results:** 

#### A、EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Seq.	Trade J Develop	GO	Results(mg/kg)					
No.	Tested Part(s)	Cd	Pb	Hg	Cr	Br		
1	White plastic (Shell)	BL	BL	BL	BL	BL		
2	Grey rubber belt(Shell)	BL	BL	BL	BL	BL		
3	Gray rubber chuck(Shell)	BL	BL	BL	BL	BL		
4	Silver screw	BL	BL	BL	BL	The of Global Co		
5	White plastic pad	BL	BL	BL	BL	BL		
6	Solar panels(Solar panels)	BL	BL	BL	BL	BL		
7	Black coating(Solar panels)	BL	BL	BL	BL	BL		
8	Copper foil(Solar panels)	BL	BL	BL	BL	C.		
9	Black foam(Solar panels)	BL	BL	BL	BL	BL		
10	Red leather (Solar panels)	BL	BL	BL	BL	BL		
11	Wire core(Solar panels)	BL	BL	BL	BL	-		
12	Black leather(Solar panels)	BL	BL	BL	BL	BL		
13	Tin solder(Solar panels)	BL	BL	BL	BL	-		
14	Patch IC	BL	BL	BL	BL	BL		
15	SMD triode	BL	BL	BL	BL	X*		
16	IC Ontology(IC)	BL	BL	BL	BL	BL		
17	Pin(IC)	BL	BL	BL	BL	-		
18	Enameled wire(Inductance)	BL	BL	BL	BL	69		
19	Magnet ring(Inductance)	BL	BL	BL	BL	BL		
20	SMD diode	BL	BL	BL	BL	BL		
21	Tin solder	BL	BL	BL	BL			
22	Patch LED	BL	BL	BL	BL	BL		
23	Solder resist(PCB board)	BL	BL	BL	BL	BL		
24	Substrate(PCB board)	BL	BL	BL	BL	X*		
25	Copper foil(PCB board)	BL	BL	BL	BL	-		

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Seq.		Results(mg/kg)				
No.	Tested Part(s)	Cd	Pb	Hg	Cr	Br
26	Tin solder(PCB board)	BL	BL	BL	BL	-
27	Metal shell(USB joint)	BL	BL	BL	BL	nice -
28	White gum(USB joint)	BL	BL	BL	BL	X*
29	Pin(USB joint)	BL	BL	BL	BL	-
30	Metal shell(Micro joint)	BL	BL	BL	X*	The
31	Black inner gum(Micro joint)	BL	BL	BL	BL	BL
32	Pin(Micro joint)	BL	BL	BL	BL	
33	Pink sleeve(Battery)	BL	BL	BL	BL	BL
34	Black sponge(Battery)	BL	BL	BL	BL	BL
35	Blue cannula(Battery)	BL	BL	BL	BL	BL
36	White washer(Battery)	BL	BL	BL	BL	BL
37	Barley paper(Battery)	BL	BL	BL	BL	BL
38	Red leather(Battery)	BL	BL	BL	BL	BL
39	Wire core(Battery)	BL	BL	BL	BL	-
40	Black leather(Battery)	BL	BL	BL	BL	BL
41	Metal connecting piece(Battery)	BL	BL	BL	BL	-
USB			No-			the-
43	White plastic grip(USB plug)	BL	BL	BL	BL	BL
44	White gum(USB plug)	BL	BL	BL	BL	BL
45	Tin solder(USB plug)	BL	BL	BL	BL	-
46	White plastic joint(USB plug)	BL	BL	BL	BL	BL
47	Pin(USB plug)	BL	BL	BL	BL	-
48	Metal shell(USB plug)	BL	BL	BL	BL	Þ
49	White plastic grip(Android connector)	BL	BL	BL	BL	BL
50	Tin solder(Android connector)	BL	BL	BL	BL	G.**
51	Black plastic joint(Android connector)	BL	BL	BL	BL	BL

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Seq.		Results(mg/kg)					
No.	Tested Part(s)	Cd	Pb	Hg	Cr	Br	
52	Metal needle(Android connector)	BL	BL	BL	X*	-	
53	Pin(Android connector)	BL	BL	BL	BL	ence -	
54	Metal shell(Android connector)	BL	BL	BL	X*	•.G*	
55	White outside leather(Wire rod)	BL	BL	BL	BL	BL	
56	Bullet proof wire(Wire rod)	BL	BL	BL	BL	BL	
57	Red enameled wire(Wire rod)	BL	BL	BL	BL	ino -	
58	Brown enameled wire(Wire rod)	BL	BL	BL	BL		

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ <x &lt;130+3σ≤OL</x 	BL≤70-3σ <x &lt;130+3σ≤OL</x 	BL≤50-3σ <x &lt;150+3σ≤OL</x 
Pb	mg/kg	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤500-3σ <x &lt;1500+3σ≤OL</x 
Hg	mg/kg	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤500-3σ <x &lt;1500+3σ≤OL</x 
Cr	mg/kg	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<>
Br	mg/kg	BL≤300-3σ <x< td=""><td>The the second</td><td>BL≤250-3σ<x< td=""></x<></td></x<>	The the second	BL≤250-3σ <x< td=""></x<>

Note: BL= Below Limit

OL= Over limited

X= Inconclusive

"-"= Not regulated

\*= Scanning by XRF and detected by chemical method. The test results of chemical method please refer to next pages.

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#### Remark:

- i Results were obtained by XRF for primary scanning, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the above warning value according to IEC 62321-3-1:2013 Ed 1.0.
- ii The XRF scanning test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- iii The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2011/65/EU:

<b>RoHS Restricted Substances</b>	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)					
Cadmium (Cd)	100					
Lead (Pb)	1000					
Mercury (Hg)	1000					
Hexavalent Chromium (Cr(VI))	1000					
Polybrominated biphenyls (PBBs)	1000					
Polybrominated diphenylethers (PBDEs)	1000					

#### Disclaimers:

This XRF Scanning report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF scanning report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

Note: Test result on specimen No.50 was resubmitted sample on Jun.19, 2017.

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#### **B** The Test Results of Chemical Method:

1) Test Results of metal Cr<sup>6+</sup>

	MDI		Result(s)	T :!4		
Test Item(s)	MDL	30	52 54		Limit	
Hexavalent Chromium (Cr <sup>6+</sup> )	**	Negative	Negative	Negative	#	

Note:

- Negative = Absence of Cr(VI) on the tested areas
- MDL = Method Detection Limit

#### Boiling-water-extraction:

Number	Colorimetric result (Cr(VI) concentration)	Qualitative result
CC	The sample solution is < the 0,10 $\mu$ g/cm <sup>2</sup> equivalent comparison standard solution	The sample is negative for Cr(VI) – The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.
2	The sample solution is $\geq$ the 0,10 µg/cm <sup>2</sup> and $\leq$ the0,13 µg/cm <sup>2</sup> equivalent comparison standard solutions	The result is considered to be inconclusive – Unavoidable coating variations may influence the determination.
3	The sample solution is > the 0,13 $\mu$ g/cm <sup>2</sup> equivalent comparison standard solution	The sample is positive for $Cr(VI)$ – The $Cr(VI)$ concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain $Cr(VI)$ .

# =Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.

Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination.

Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

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2) The Test Results of PBBs & PBDEs

	THE CONTRACT	The second color		Fr all	Unit:mg/k	
Item(s)	MDL		Result(s)		Limit	
The Chine Chine		15	24	28		
Polybrominated Biphenyls (PBBs)	-100	T		T		
Monobromobiphenyl	5	N.D.	N.D.	N.D.	Bassadon a Color	
Dibromobiphenyl	5	N.D.	N.D.	N.D.		
Tribromobiphenyl	5	N.D.	N.D.	N.D.		
Tetrabromobiphenyl	5	N.D.	N.D.	N.D.	The state	
Pentabromobiphenyl	5	N.D.	N.D.	N.D.		
Hexabromobiphenyl	5	N.D.	N.D.	N.D.	Total PBBs Conten <1000	
Heptabromobiphenyl	5	N.D.	N.D.	N.D.	1000	
Octabromobiphenyl	5	N.D.	N.D.	N.D.	The temperature	
Nonabromodiphenyl	5	N.D.	N.D.	N.D.	CO The	
Decabromodiphenyl	5	N.D.	N.D.	N.D.		
Total content	$\sim$	N.D.	N.D.	N.D.		
Polybrominated Diphenylethers (PBDEs)						
Monobromodiphenyl ether	5	N.D.	N.D.	N.D.	Standon of Good	
Dibromodiphenyl ether	5	N.D.	N.D.	N.D.		
Tribromodiphenyl ether	5	N.D.	N.D.	N.D.		
Tetrabromodiphenyl ether	5	N.D.	N.D.	N.D.	THE THE	
Pentabromodiphenyl ether	5	N.D.	N.D.	N.D.		
Hexabromodiphenyl ether	5	N.D.	N.D.	N.D.	Total PBDEs Content <1000	
Heptabromodiphenyl ether	5	N.D.	N.D.	N.D.		
Octabromodiphenyl ether	5	N.D.	N.D.	N.D.	The the companies	
Nonabromodiphenyl ether	5	N.D.	N.D.	N.D.	These and all a	
Decabromodiphenyl ether	5	N.D.	N.D.	N.D.		
Total content		N.D.	N.D.	N.D.		
Conclusion	1	Pass	Pass	Pass	a I of share	

Note: N.D. = Not Detected or less than MDL MDL = Method Detection Limit

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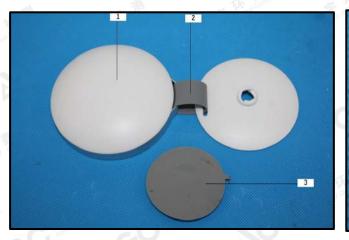
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#### Date: Jun.23, 2017 Page 9 of 12 Report No.: A001R20170608043 **Test Flow Chart** 1.For metal Cr(VI) Adding 1,5- diphenylcarbazide for color Boiling water extraction Sample(s) Preparation development Compare with $0.1 \mu g/cm^2$ and $0.13 \mu g/cm^2$ standard UV-Vis DATA solution 2. For PBBs & PBDEs Cutting/Preparation Weigh Sample Dilution Sample solvent extraction Concentration/ of Extracted solution DATA GC-MS Filtration

#### The photo of the sample





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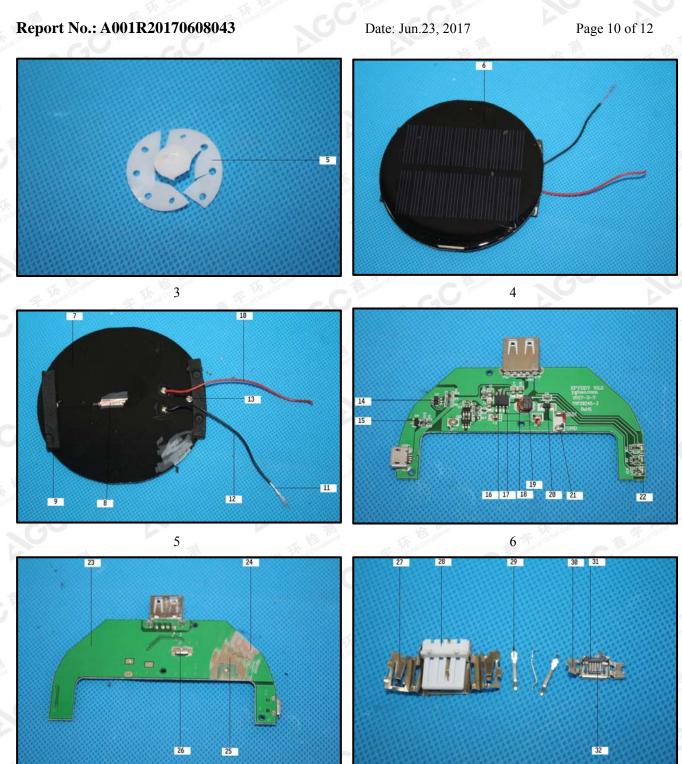


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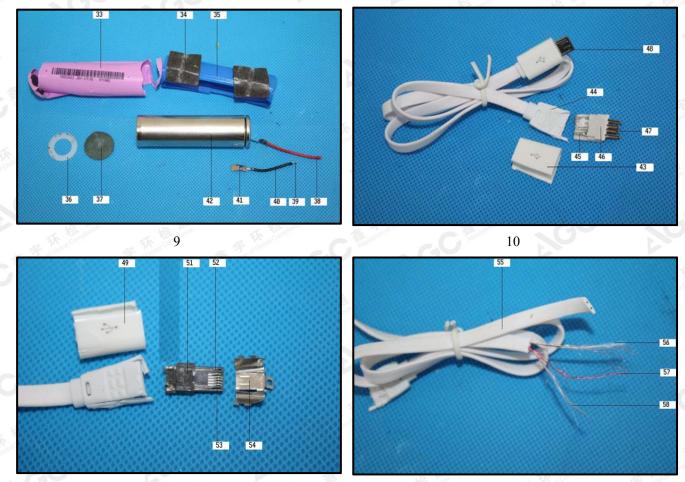
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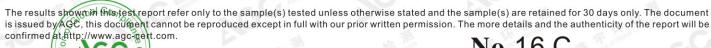
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