

# Test Report

No. R011408276R

Date: Sept. 29, 2014

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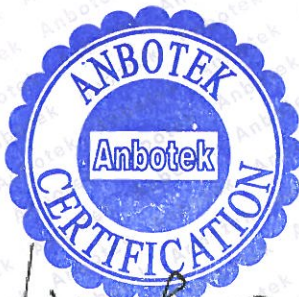
Applicant : Jinan USR IOT Technology Limited  
Address : #1-724~729, Huizhan Guoji Cheng, Gaoxin District, Jinan City,  
Shandong Province, 250101, China

Report on the submitted sample said to be

Sample name : WIFI Remote control device  
Type /model : USR-WP1, USR-WM1s, USR-WM1h, USR-WL1, USR-WP3,  
USR-HTW, USR-WIFIIO-83, USR-WSA, USR-WSC, USR-R16  
Manufacturer : Jinan USR IOT Technology Limited  
Sample received date : Aug. 20, 2014  
Testing period : Aug. 20, 2014 to Sept. 29, 2014  
Test requested : As specified by client, according to the ROHS directive 2011/65/EU, to  
screen Lead(Pb), Cadmium(Cd), Mercury(Hg), Chromium(Cr) and  
Bromine(Br) in the submitted sample(s) by XRF.

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

Signed for and on behalf of Shenzhen Anbotek Compliance Laboratory Limited

Tested by Willow LiuInspected by Lin ZhangApproved by Sahen Chen

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## Test Results(s):

Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Conclusion
1	Silver screw	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	/	
2	Black spring	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	/	
3	Red plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
4	Silver metal	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	/	
5	White plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
6	Blue label	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	

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Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Conclusion
7	White plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
8	Silver metal	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	/	
9	Silver metal plug	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	/	
10	White PVC jacket	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
11	Red PVC jacket	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
12	Silver metal wire	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	/	

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Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Conclusion
13	Black chip diode	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	
14	Black plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
15	Silver metal	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	/	
16	Black chip audion	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	
17	Black chip resistor	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	
18	Glass diode	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	

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Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Conclusion
19	Brown chip capacitor	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	
20	Black PVC jacket	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
21	Yellow gummed paper	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
22	Button cell	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	
23	Red PVC jacket	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
24	Black PVC jacket	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	

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Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Conclusion
25	Silver crystal oscillator	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	
26	White plastic	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
27	Beige glue	Pb	BL	PASS
		Cd	BL	
		Hg	BL	
		Cr	BL	
		Br	BL	
28	Black inductor	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	
29	Black DR CORE	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	
30	Black electrolytic capacitor	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	

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Sample No.	Sample Description	Tested Items	XRF Screening Test Unit (mg/kg)	Conclusion
31	Grey resistor	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	
32	Black relay	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	
33	Black PCB board	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	
34	Silver crystal oscillator	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	
35	Black IC	Pb	BL	PASS
		Cd	LOD	
		Hg	BL	
		Cr	BL	
		Br	BL	

**Note:**

-MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million

-BL = Under the XRF screening limit

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

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

-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.

## 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 Method:

### 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 62321-3-1:2013. (unit: mg/kg)		MDL	
	Polymers and metals	Composite material	Polymers	Other material
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma)$ $\leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma)$ $\leq OL$	10 mg/kg	50 mg/kg
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma)$ $\leq OL$	$LOD \leq (50-3\sigma) < X < (150+3\sigma)$ $\leq OL$	10 mg/kg	50 mg/kg
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma)$ $\leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma)$ $\leq OL$	10 mg/kg	50 mg/kg
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$	10 mg/kg	50 mg/kg
Br	$BL \leq (300-3\sigma) < X$	$BL \leq (250-3\sigma) < X$	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

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## Photograph of Sample



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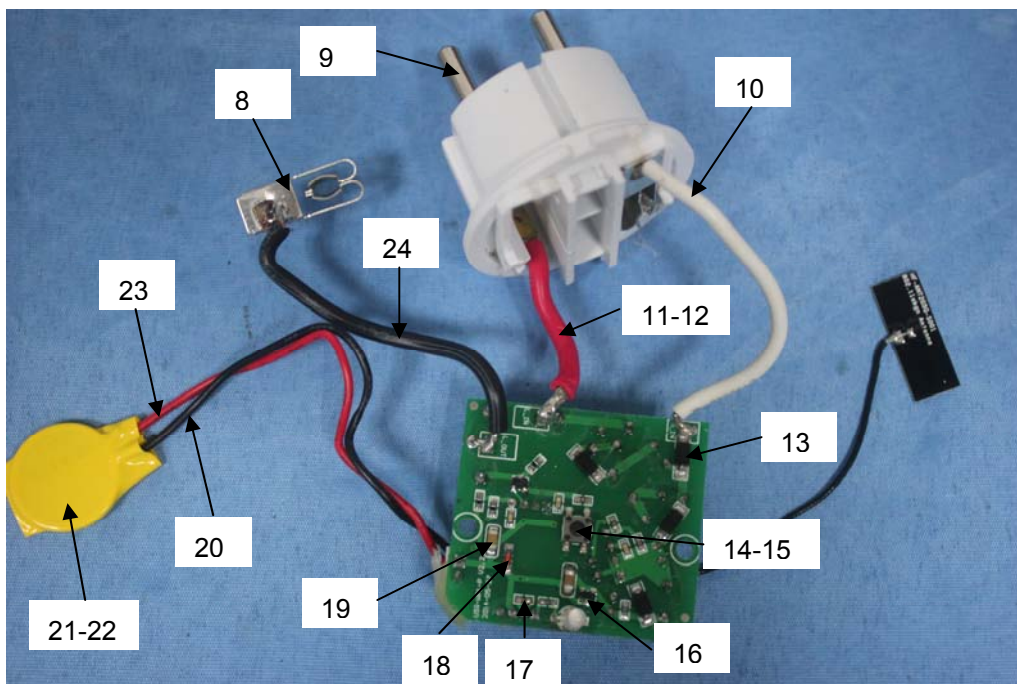
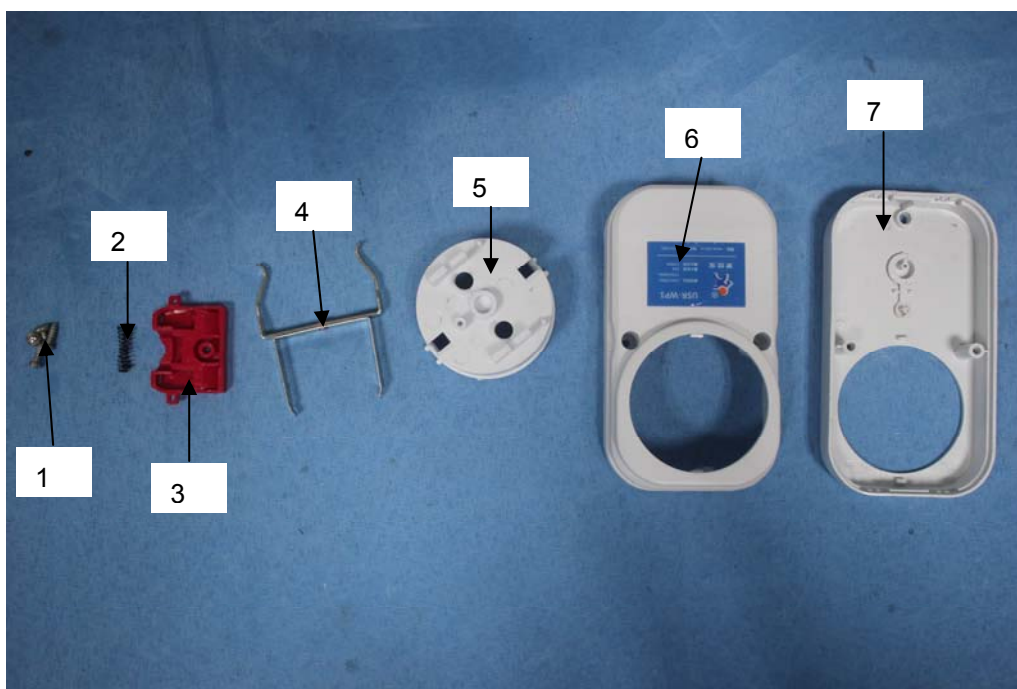
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## Photo(s) of the tested component(s)



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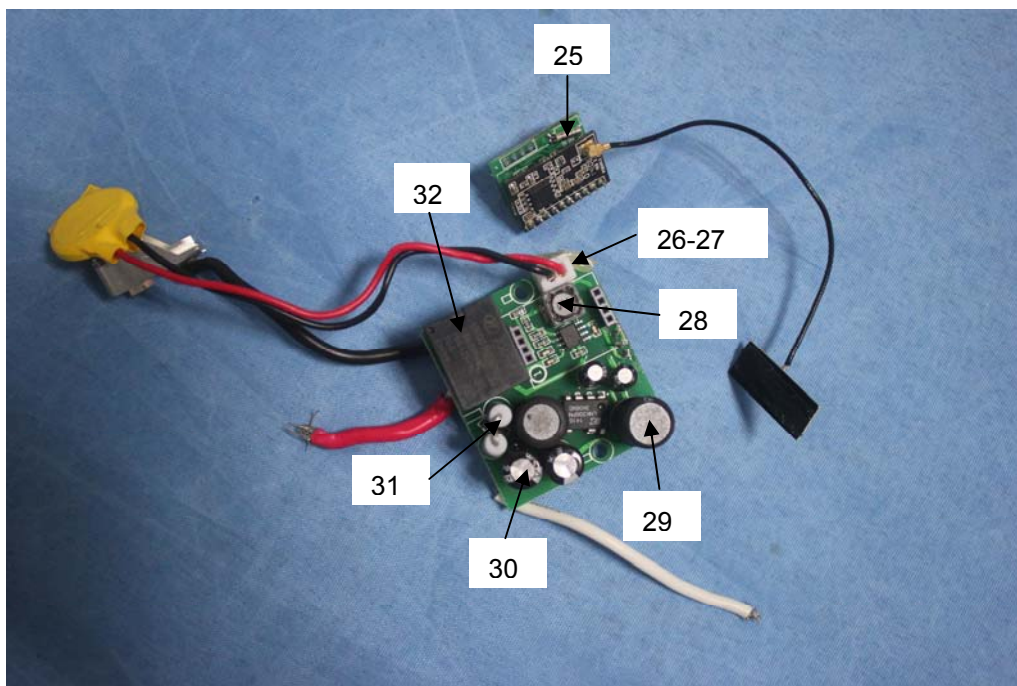
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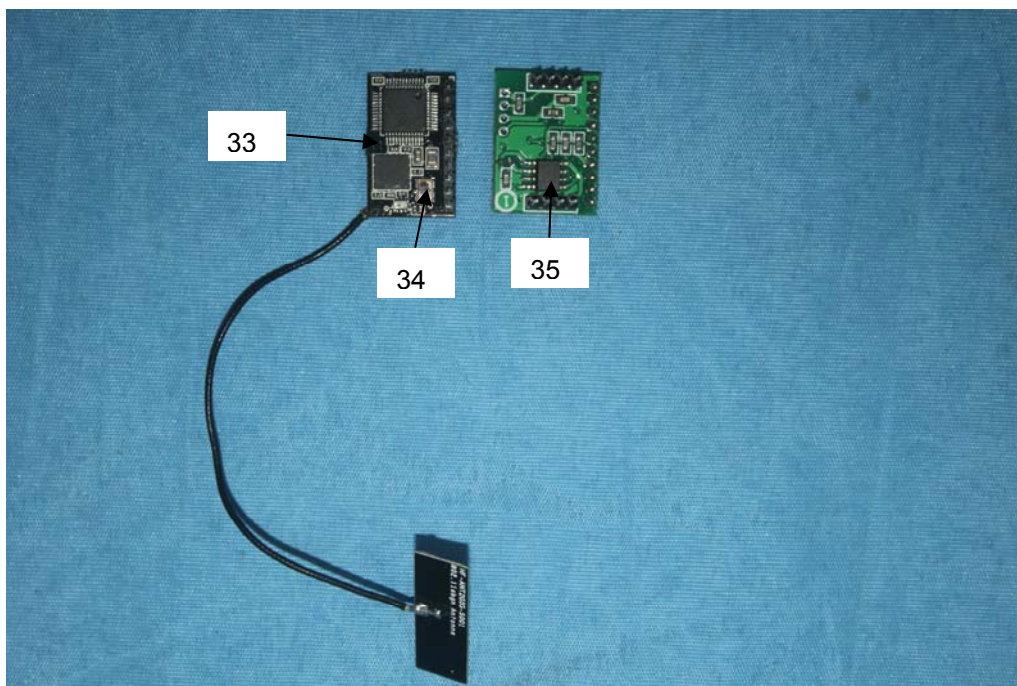
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\*\*\*\* End of Report \*\*\*\*

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