

Test Report	No. C190701015001	Date: Jul 10, 2019	Page 1 of 9
Applicant:	WIZNET CO.,LTD		
Applicant Address:	5F Humax Village,216 Hwangsaeul-ro, Bundang-gu,Seongnam-si,Gyeonggi-Do,	13595 Korea	
The following samples were sub	mitted and identified on behalf of the clients	as S	
Sample Name:	WiFi Module		
Model:	WizFi630S		
Model/Type reference:	N.A.		
Trademark:	N.A.		
Manufacturer:	Shenzhen Yunlink Technology CO., Ltd		
Manufacturer Address:	B3 Building, An'le Industiral Zone, Har Baoan District, Shenzhen City, Guangdor		Xixiang Towm,
CPST Internal Reference No.:	C190701015		
Sample Received Date:	Jul 01, 2019		
Number of Sample Received:	01 pcs		
Test Period:	Jul 01, 2019 to Jul 10, 2019		
Test Method:	Please refer to next pages		
Test Result:	Please refer to next pages		

PRO Signed behalf of Products Testing Service Co., Ltd Eurones Consume STIN

TESTED BY :

Andy Wang

Wang Guang Yu, Andy Project Leader

REVIEWED BY:

Sunshine Liu

APPROVED BY:

Will Pan

Liu Xiao Fang, Sunshine Report Reviewer

Pan Jian Ding, Will **Technical Supervisor** 

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**Test Report** 

No. C190701015001

Page 2 of 9

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CONCLUSION :		
TESTED SAMPLES	TEST ITEM	RESULT
	1. RoHS Directive 2011/65/EU Annex II amending Annex (EU)2015/863 and amending Annex (EU)2017/2102	
WiFi Module	<ul> <li>Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs Content</li> </ul>	PASS
	—Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate(DIBP) Content	
*****	***************************************	*****

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 Test Report
 No. C190701015001
 Date: Jul 10, 2019
 Page 3 of 9

 2. Test Item Description And Photo List

Sample No.	Description	Photograph
001	Black printed silver sticker	
002	Silver metal shell	
003	Blue glue	T T T T T T
004	Black ontology	
005	Black ontology	
006	Silver metal pin	
007	Silver metal plate	
008	Copper wire	9
009	Black ontology	
010	Gray resistance	🖸 t t t t t 🗱
011	Silver metal plate	$ \begin{array}{c c} \\ \hline \\ \hline \\ \hline \\ \hline \\ \end{array} \\ 8-9 10 11 12 13 14-15 \end{array} $
012	Copper metal sheet	8-9 10 11 12 13 14-15
013	White plastic	2
014	Blue PCB board	
015	Silver solder	

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### **Test Report**

No. C190701015001

Date: Jul 10, 2019 Page 4 of 9

- 3. Test Results
- 3.1 Screening test for the specified hazardous substances of RoHS for the selected materials of the submitted sample:
  - Heavy Metal (Cadmium, Chromium, Mercury, Lead) Content Test
  - Bromine Content Test

According to IEC 62321-3-1:2013, and Quantification analyzed with Energy Dispersive X-ray Fluorescence Spectrometers.

Sample No.	Total Cadmium	Total Lead	Total Mercury	Total Chromium	Total Bromine
Sample 001	BL	BL	BL	BL	BL
Sample 002	BL	BL	BL	BL S	N.A.
Sample 003	BL	S BL C	BL	BL	BL
Sample 004	SBL C	BL	BL	BL	BL
Sample 005	BL	BL	BL	BL	BL
Sample 006	BL	BLS	BL	BL	N.A.
Sample 007	BL	BL	BL	BL	N.A.
Sample 008	BL	BL	BL	BL	N.A.
Sample 009	S BL	BL	BL O	BL	BL
Sample 010	BL	BL	BL	BL	BL
Sample 011	BL	BL	BL	BL	N.A.
Sample 012	BLS	BL	BL	G BL	N.A.
Sample 013	BL	K BL	BL	BL	BL
Sample 014	BL S	BL	BL	BL	Inconclusive^
Sample 015	BL	S BL	BL	BLO	N.A.

Note:

- 1. All Concentrations express in "mg/kg" (milligram per kilogram), mg/kg ~ ppm
- 2. "OL" denotes "over limit"
- 3. "BL" denotes "below limit"
- 4. "N.A." denotes "Not Applicable"
- 5. "Inconclusive" denotes result is intermediate between "OL" and "BL"
- 6. "^"denotes the screening result was inconclusive(X) or over limit (OL), thus further confirmation test was conducted, results are listed in 3.2 and 3.3.

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### **Test Report**

No. C190701015001

Date: Jul 10, 2019

Page 5 of 9

XRF screening limits for different materials:

Materials	Concentration (mg/kg)					
waterials	Cd	Cr	Pb	Hg	Br	
Metal	BL≤(70-3σ) <x<< th=""><th>BL≤(700-3σ)&lt;Χ</th><th>BL≤(700-3σ)<x<< th=""><th>BL≤(700-3σ)<x<< th=""><th>N.A.</th></x<<></th></x<<></th></x<<>	BL≤(700-3σ)<Χ	BL≤(700-3σ) <x<< th=""><th>BL≤(700-3σ)<x<< th=""><th>N.A.</th></x<<></th></x<<>	BL≤(700-3σ) <x<< th=""><th>N.A.</th></x<<>	N.A.	
Weta	(130+3σ )≤OL	BL=(700-50)~X	(1300+3σ )≤OL	(1300+3σ )≤OL	N.A.	
Delymere	BL≤(70-3σ) <x<< th=""><th rowspan="2">BL≤(700-3σ)&lt;Χ</th><th>BL≤(700-3σ)<x<< th=""><th>BL≤(700-3σ)<x<< th=""><th>BL≤(300-3σ)&lt;</th></x<<></th></x<<></th></x<<>	BL≤(700-3σ)<Χ	BL≤(700-3σ) <x<< th=""><th>BL≤(700-3σ)<x<< th=""><th>BL≤(300-3σ)&lt;</th></x<<></th></x<<>	BL≤(700-3σ) <x<< th=""><th>BL≤(300-3σ)&lt;</th></x<<>	BL≤(300-3σ)<	
Polymers	(130+3σ )≤OL		(1300+3σ )≤OL	(1300+3σ )≤OL	X	
Composite	BL≤(50-3σ) <x<< th=""><th rowspan="2"><math>BI &lt; (500-3\sigma) &lt; X</math></th><th>BL≤(500-3σ)<x<< th=""><th>BL≤(500-3σ)<x<< th=""><th>BL≤(250-3σ)&lt;</th></x<<></th></x<<></th></x<<>	$BI < (500-3\sigma) < X$	BL≤(500-3σ) <x<< th=""><th>BL≤(500-3σ)<x<< th=""><th>BL≤(250-3σ)&lt;</th></x<<></th></x<<>	BL≤(500-3σ) <x<< th=""><th>BL≤(250-3σ)&lt;</th></x<<>	BL≤(250-3σ)<	
material	(150+3σ )≤OL		(1500+3σ )≤OL	(1500+3σ )≤OL	x V	

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### **Test Report**

No. C190701015001

Date: Jul 10, 2019

Page 6 of 9

### 3.2 Test for Heavy Metals

Lead, Cadmium, Hexavalent Chromium and Mercury Tests according to IEC 62321-4:2013+A1:2017
 & IEC 62321-5:2013 & IEC 62321-7-1:2015& IEC 62321-7-2:2017

Element	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Mercury [mg/kg]	Hexavalent Chromium [µg/cm <sup>2</sup> ]	Hexavalent Chromium [mg/kg]
Detection Limit	5	5	5	0.10	5
Limit	100	1000	1000	0.10	1000

#### Note:

- 1. All Concentrations express in "mg/kg" (milligram per kilogram), mg/kg ~ ppm.
- 2. "N.D." = "Not Detected".
- 3. Boiling-water-extraction:
  - Negative = Absence of Cr(VI) coating / surface layer: the detected concentration in boiling-water-extraction solution is less than 0.10µg with 1cm<sup>2</sup> sample surface area. Positive = Presence of Cr(VI) coating / surface layer: the detected concentration in boiling-water-extraction solution is greater than 0.13µg with 1cm<sup>2</sup> sample surface area. Inconclusive = the detected concentration in boiling-water-extraction solution is greater than 0.10µg and less than 0.13µg with 1cm<sup>2</sup> sample surface area.
- 4. Positive = result be regarded as not comply with RoHS requirement
- Negative = result be regarded as comply with RoHS requirement
- 5. "-" =Not regulated

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### **Test Report**

No. C190701015001

Date: Jul 10, 2019

Page 7 of 9

### 3.3 Test for Flame retardants

 Test Method: With reference to IEC 62321-6:2015, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting Limit: 5mg/kg]

Test Item		Result [mg/kg]	RoHS	
		Sample 014	Requirement [mg/kg]	
	Monobromobiphenyl	< 5		
PBBs	Dibromobiphenyl	S < 5		
	Tribromobiphenyl	< 5	1 S	
	Tetrabromobiphenyl	< 5		
	Pentabromobiphenyl	< 5		
	Hexabromobiphenyl	< 5	Sum of PBBs 1000	
	Heptabromobiphenyl	< 5		
	Octabromobiphenyl	< 5	x	
	Nonabromobiphenyl	< 5	o Cr ar	
	Decabromobiphenyl	< 5	5 8	
6	Sum of PBBs	< 5		
~?``	Monobromodiphenyl Ether	< 5	8	
	Dibromodiphenyl Ether	< 5	< <u>5</u>	
	Tribromodiphenyl Ether	< 5	C S	
	Tetrabromodiphenyl Ether	< 5		
	Pentabromodiphenyl Ether	< 5		
PBDEs	Hexabromodiphenyl Ether	< 5		
୍ ୧୨୦	Heptabromodiphenyl Ether	< 5		
	Octabromodiphenyl Ether	< 5		
	Nonabromodiphenyl Ether	< 5		
S	Decabromodiphenyl Ether	< 5	Sa an	
	Sum of PBDEs	< 5		

### Note:

- 1. All Concentrations express in "mg/kg" (milligram per kilogram), mg/kg ~ ppm.
- 2. "<" denotes less than

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### **Test Report**

No. C190701015001 Date: Jul 10, 2019 Page 8 of 9

### 3.4 Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP) Content-RoHS Directive 2011/65/EU Annex II amending Annex (EU)2017/2102

Test method: With reference to IEC 62321-8:2017; Analysis was conducted by GC-MS.

Di-(2-ethylhexyl) phthalate (DEHP) [mg/kg]	Benzylbutyl phthalate (BBP) [mg/kg]	Dibutyl phthalate (DBP) [mg/kg]	Diisobutyl phthalate(DIBP) [mg/kg]
50	50	50	50
1000	1000	1000	1000
N.D.	N.D.	N.D.	N.D.
N.D.	N.D.	N.D.	N.D.
N.D.	N.D.	N.D.	N.D.
N.D.	N.D.	N.D.	N.D.
N.D.	N.D.	N.D.	N.D.
N.D.	N.D.	N.D.	N.D.
N.D.	N.D.	N.D.	N.D.
N.D.	N.D.	N.D.	N.D.
	phthalate (DEHP)           [mg/kg]           50           1000           N.D.           N.D.	phthalate (DEHP)         phthalate (BBP)           [mg/kg]         [mg/kg]           50         50           1000         1000           N.D.         N.D.           N.D.         N.D.	phthalate (DEHP)         phthalate (BBP)         (DBP)           [mg/kg]         [mg/kg]         [mg/kg]           50         50         50           1000         1000         1000           N.D.         N.D.         N.D.           N.D.         N.D.         N.D.

Note:

1. All Concentrations express in "mg/kg" (milligram per kilogram), mg/kg ~ ppm.

2. "N.D." = "Not Detected".

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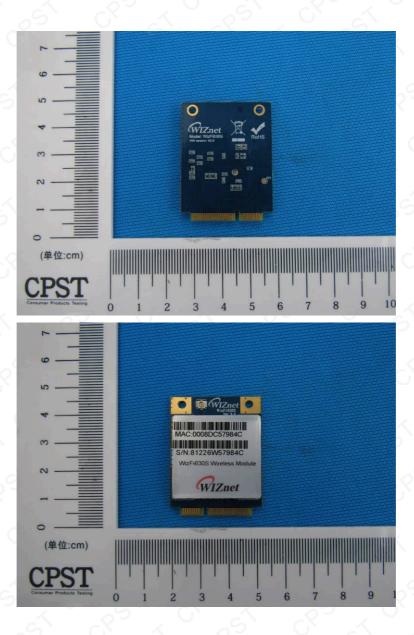
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**Test Report** 

No. C190701015001 Date: Jul 10, 2019 Page 9 of 9

Photo of the Submitted Sample



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

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