



RoHS Test Report

Report No. : AGC00925210404-001

SAMPLE NAME	: Wireless Mini Switch
MODEL NAME	: WXKG11LM
APPLICANT	: Lumi United Technology Co., Ltd
STANDARD(S)	: Please refer to follow page(s).
DATE OF	: May 11, 2021

Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.

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Applicant	:	Lumi United Technology Co., Ltd
Address		8th Floor, JinQi Wisdom Valley, No.1 Tangling Road, Liuxian Ave, Taoyuan
1 Iddi 055		Residential District, Nanshan District, Shenzhen ,China
Test Site		6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community,
Test She		Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Report on the submitted sample(s) said to be:

Sample Name	:	Wireless Mini Switch
Model	:	WXKG11LM
Brand	Ċ	Aqara
Manufacturer	-:	Lumi United Technology Co., Ltd
Address	:	8th Floor, JinQi Wisdom Valley, No.1 Tangling Road, Liuxian Ave, Taoyuan Residential District, Nanshan District, Shenzhen ,China
Sample Received Date	:	Apr.29, 2021
Testing Period	:	Apr.29, 2021 to May 11, 2021

Test Requested:

Conclusion

Pass

Pass

- As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863 on XRF and Chemical Method.
- 2. As specified by client, to determine Lead(Pb), Cadmium(Cd), Mercury(Hg) content in the submitted sample in accordance with European Directive 2006/66/EC and its amendments 2013/56/EU on batteries and accumulators.

Approved by: Jossie lin

Liangdan, Jessie.Liang Technical Director

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No.	Sample Description	G C C					
Wireles	s Mini Switch (WXKG11LM)						
1.		White plastic shell					
2.		White plastic button					
3.		Grey plastic bottom shell					
4.		Double faced adhesive tape					
5.	— Outer shell	Gray printing					
6.		Gray plastic battery cover					
7.		Backing paper					
8.		Transparent lamp shade					
9.	Button battery	O G S S					
10.	Chip capacitor						
11.	Chip crystal oscillator						
12.	Chip IC	C O F O O					
13.	Tin solder						
14.	PCB board						
15.	Chip capacitor						
16.	Chip resistor						
17. 💿	Chip LED						
18.	Copper shell						
19.	Copper shell						
20.	White code scanning sticker						
21.	Tantalum chip capacitor						
22.		Black plastic button					
23.		Silver metal shell					
24.	Touch switch	Metal shrapnel					
25.		White plastic base seat					
26.		Pin					
27.		Copper button					
28.		Metal shrapnel					
29.	Switch	Brown tape					
30.	Switch	Silver metal shell					
31. 🛞		Black plastic seat					
32.	6	Pin					

Test Result:

(Test Method/ Instrument/ MDL and Limit: See Appendix)

1. Test Result of RoHS

T	0										
No.	Pb	Cd	Hg	Cr ⁶⁺	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	Conclusion
1	N.D.	N.D.	N.D.	253	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
3	N.D.	N.D.	N.D.	421	N.D.	ି N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
7	N.D.	N.D.	N.D.	446	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity

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	Test result (mg/kg)										
No.	Pb	Cd	Hg	Cr ⁶⁺	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	Conclusion
8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
11	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
12 💿	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
13	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
14	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
15	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
16	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
17	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
18	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
19	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
20	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
21	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
22	N.D.	N.D.	N.D.	213	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
23	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
24	N.D.	N.D.	N.D.	N.D.*	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
25	N.D.	N.D.	N.D.	360	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
26	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
27	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
28	319	N.D.	N.D.	N.D.*	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
29	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
30	N.D.	N.D.	N.D.	N.D.*	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
31	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
32	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity

Note:

mg/kg = milligram per kilogram MDL = Method Detection Limit N/A= Not applicable μg/cm² = microgram per square centimeter N.D.=Not Detected (less than method detection limit)

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Remark:

GC

- *denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, nonuniformity composition, surface flatness.
- 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.

Boiling-water-extraction:

Benning		
Number	Colorimetric result (Cr(VI) concentration)	Qualitative result
j G	The sample solution is <the 0,10="" cm<sup="" μg="">2 equivalent comparison standard solution</the>	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 ² and \leq the 0,13 µg/cm ² 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 μ g/cm ² 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.

2. Test Result of Lead(Pb).	Cadmium(Cd), Mercury(Hg)(European	Directive 2006/66/EC)

Na			Test result (%)		Conclusion
No.		Lead(Pb)	Cadmium(Cd)	Mercury(Hg)	Conclusion
9	®	N.D.	N.D.	N.D.	Conformity

Note:

%= percentage

N.D.=Not Detected (less than method detection limit)

MDL = Method Detection Limit

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Test Item	Test Method/ Instrument	MDL	Maximum Limit	
X-ray Fluorescence Spectrometry(XRF)				
Lead (Pb)		200mg/kg	1000mg/kg	
Cadmium (Cd)	- Cu o F	50mg/kg	100mg/kg	
Mercury (Hg)	IEC 62321-3-1:2013 / XRF	200mg/kg	1000mg/kg	
Total Chromium		200mg/kg	/	
Total Bromine		200mg/kg		
Wet Chemistry Method			G	
Lead (Pb)	IEC 62321-5:2013/ ICP-OES	10mg/kg	1000mg/kg	
Cadmium (Cd)	IEC 62321-5:2013/ ICP-OES	10mg/kg	100mg/kg	
Mercury (Hg)	IEC 62321-4: 2013+A1:2017/ ICP-OES	10mg/kg	1000mg/kg	
Non-metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-2:2017/ UV-Vis	8mg/kg	1000mg/kg	
Metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2015/ UV-Vis	0.1µg/cm ²	1	
Polybrominated Biphenyls (PBBs) -Monobromobiphenyl (MonoBB) -Dibromobiphenyl (DiBB) -Tribromobiphenyl (TriBB) -Tetrabromobiphenyl (TetraBB) -Pentabromobiphenyl (PentaBB) -Hexabromobiphenyl (HexaBB) -Heptabromobiphenyl (HeptaBB) -Octabromobiphenyl (OctaBB) -Nonabromodiphenyl (NonaBB) -Decabromodiphenyl (DecaBB)	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum 1000mg/kg	
PolybrominatedDiphenylethers (PBDEs) -Monobromodiphenyl ether (MonoBDE) -Dibromodiphenyl ether (DiBDE) -Tribromodiphenyl ether (TriBDE) -Tetrabromodiphenyl ether (TetraBDE) -Pentabromodiphenyl ether (PentaBDE) -Hexabromodiphenyl ether (HexaBDE) -Heptabromodiphenyl ether (HeptaBDE) -Octabromodiphenyl ether (OctaBDE) -Nonabromodiphenyl ether (NonaBDE) -Decabromodiphenyl ether (DecaBDE)	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum 1000mg/kg	
Di-iso-butyl phthalate (DIBP)		50mg/kg	1000mg/kg	
Dibutyl phthalate (DBP)		50mg/kg	1000mg/kg	
Butylbenzyl phthalate (BBP)	IEC 62321-8:2017/ GC-MS	50mg/kg	1000mg/kg	
Di-(2-ethylhexyl) Phthalate (DEHP)		50mg/kg	1000mg/kg	
Lead(Pb), Cadmium(Cd), Mercury(Hg)	(European Directive 2006/66/EC)	00119.119	<u> </u>	
Lead (Pb)	IEC 62321-5:2013/ ICP-OES	0.0005%	1	
Cadmium (Cd)	IEC 62321-5:2013/ ICP-OES	0.0005%	0.002%	
Mercury (Hg)	IEC 62321-3:2013/ ICP-OES IEC 62321-4: 2013+A1:2017/ ICP-OES	0.0003%	0.002%	

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Test Flow Chart



These sample were dissolved totally by pre-conditioning method according to above flow chart (Cr^{6+} test method excluded)

2.For PBBs, PBDEs, DBP, BBP, DEHP, DIBP

Cutting/Preparation]+[Weigh Sample		Sar	nple solvent extra	ction	 	Concentration/ Dilution of
	. C					-C		Extracted solution
DATA	-	GC-MS]←	0	Filtration		_	

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The photo of the sample



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AGC authenticate the photo only on original report *** End of Report ***

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.

4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.

5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.

6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.

7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.

8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.

9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.

10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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