

Report No.: A001E20171120056 Date: Dec.11, 2017 Page 1 of 7

Applicant: Skylab M&C Technology Co.,Ltd

Address: 6/F, Building9, Lijincheng Scientific&Technical park, Gongye East Road, Longhua District,

Shenzhen, 518109 China

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

Sample Name: WIFI Module

Sample Model: SKW72-E16

Serial Model: SKW72-E16, SKW72-E8, SKW72-P8, SKW72-P16

Brand: SKYLAB

Supplier: SKYLAB

Manufacturer: Skylab M&C Technology Co.,Ltd

Address: 6/F, Building9, Lijincheng Scientific&Technical park,Gongye East Road, Longhua

District, Shenzhen, 518109 China

Sample Received Date: Nov.20, 2017

Testing Period: Nov.20, 2017 to Dec.01, 2017

Test Requested: Please refer to following page(s).

Test Method: Please refer to following page(s).

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

Tested by: Mo Xiao

Reviewed by: ____

Luoxiao Suhongliang, Leon

Test Engineer Test Team Leader

Liulinwen, Lewis

Approved by:

Technical Director



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at a true //www.agc-cept.com



Report No.: A001E20171120056 Date: Dec.11, 2017 Page 2 of

Test Requested: Conclusion

1.As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, 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.

Pass

2. As specified by client, to determine the DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863.

Pass

Test Methods:

A: Screening by X-ray Fluorescence Spectrometry (XRF): 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: Chemical test:

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 ⁶⁺)	IEC 62321-7-2:2017 Ed 1.0	UV-Vis	1 mg/kg	
Metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2015 Ed 1.0	UV-Vis	/	
PBBs/PBDEs	IEC 62321-6:2015 Ed 1.0	GC-MS	5 mg/kg	

The results shown in this lest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by ASC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.agc-cert.com.



Report No.: A001E20171120056 Date: Dec.11, 2017 Page 3 of 7

Test Results:

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

Seq.		Results(mg/kg)						
No.	Tested Part(s)	Cd	Pb	Hg	Cr	Br		
1	Chip capacitor	BL	BL	BL	BL	BL		
2	Patch IC(W9751G6KB-25)	BL	BL	BL	BL	BL		
3	SMD triode	BL	BL	BL	BL	BL		
4	chip inductor	BL	BL	BL	BL	BL		
5	Patch IC(AR9331-AL3A)	BL	BL	BL	BL	BL		
6	IC Ontology(IC)	BL	BL	BL	BL	BL		
7	Pin(IC)	BL	BL	BL	BL	70		
8	SMD blue resistor	BL	BL	BL	BL	BL		
9	Copper ring(Antenna pedestal)	BL	BL	BL	BL	F Thomas		
10	Copper pin(Antenna pedestal)	BL	BL	BL	BL	_		
11,	White plastic seat(Antenna pedestal)	BL	BL	BL	BL	BL		
12	SMD crystal	BL	BL	BL	BL	BL		
13	SMD black resistor	BL	BL	BL	BL	BL		
14	PCB board	BL	BL	BL	BL	X*		

Element	Element Unit Non-metal		Metal	Composite Material		
Cd	mg/kg	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤50-3σ <x <150+3σ≤OL</x 		
Pb	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x 		
Hg	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <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 things - Of the transfer o</td><td>BL≤250-3σ<x< td=""></x<></td></x<>	The things - Of the transfer o	BL≤250-3σ <x< td=""></x<>		

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.agc-cett.com.

No.17 C



Report No.: A001E20171120056 Date: Dec.11, 2017 Page 4 of 7

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.

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 RoHS directive 2011/65/EU:

RoHS Restricted Substances	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.

The results spown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.agc-cent.com.



Report No.: A001E20171120056 Date: Dec.11, 2017 Page 5 of 7

B. The Test Results of Chemical Method:

1) The Test Results of PBBs & PBDEs

Unit:mg/kg

					Unit:mg/kg		
Itam(a)	MDL	F Madada	Result(s)	and Clotal	J. Limit S		
Item(s)	MDL		14	Hasin	Limit		
Polybrominated Biphenyls (PB	Bs)						
Monobromobiphenyl	5		N.D.	MIII	Compliance © Marin		
Dibromobiphenyl	5	位规	N.D.	® # Julion of Cital	CO TO		
Tribromobiphenyl	5	Front Global Co.	N.D.	-,G			
Tetrabromobiphenyl	5		N.D.		THE SALE		
Pentabromobiphenyl	5	ad.	N.D.	The Compliance	The State of the S		
Hexabromobiphenyl	5	T.	N.D.	and Charles (C)	Total PBBs Content <1000		
Heptabromobiphenyl	5	® Milestation of Gala	N.D.	100	Content \1000		
Octabromobiphenyl	5	30	N.D.	s II	70		
Nonabromodiphenyl	5	:10	N.D.	T John C	Of the Frid Golden		
Decabromodiphenyl	5	The Tomplane	N.D.	Alfestation 5	-C		
Total content	1 %	mon of G	N.D.				
Polybrominated Diphenylether	s (PBDEs)						
Monobromodiphenyl ether	5	45	N.D.	A This	F The Complete		
Dibromodiphenyl ether	5	The Thomas	N.D.		2C		
Tribromodiphenyl ether	5	C Marketon	N.D.	100	10		
Tetrabromodiphenyl ether	5	B	N.D.		1000		
Pentabromodiphenyl ether	5	-ml	N.D.	The Hollands	The state of the s		
Hexabromodiphenyl ether	5	2 propilarce	N.D.	alion of Clohal	Total PBDEs Content < 1000		
Heptabromodiphenyl ether	5 od 300	-6	N.D.	Viles	Content <1000		
Octabromodiphenyl ether	5	10	N.D.	-till	- 700		
Nonabromodiphenyl ether	5	TIII	N.D.	The Table	of a Complaince 8 3		
Decabromodiphenyl ether	5	The Compliance	N.D.	(B) Autociation of C	-GO		
Total content	/ 8	Franco of Glove	N.D.	CO			
Conclusion			Pass	- 500	1		

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

MDL = Method Detection Limit

The results shown in this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.agc-cett.com.

No.1/ C

Attestation of Global Compliance Std. & Tech.



Report No.: A001E20171120056 Date: Dec.11, 2017 Page 6 of 7

2) For the DBP, BBP, DEHP, DIBP content

Unit: mg/kg

Test Item(s)	Test Method/ Equipment		大枪型	of Clopal Co.				
		MDL	Global 1	2	3	4	5	Limit
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer to IEC 62321-8:2017 GC-MS	100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		100	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion		1	Pass	Pass	Pass	Pass	Pass	1

Total Manus(r)	Test Method/ Equipment	MDI			Res	ult(s)			1
Test Item(s)		MDL	6	8	11	12	13	14	Limit
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer to IEC 62321-8:2017 GC-MS	100	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		100	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		100	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		GC-MS	100	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion		/	Pass	Pass	Pass	Pass	Pass	Pass	1/2 / B

Note: 1. MDL = Method Detection Limit

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

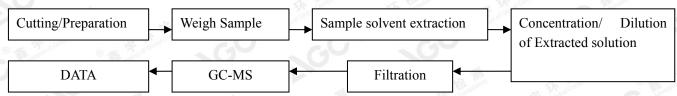
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by ASC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at a true; //www.agc-cett.com.



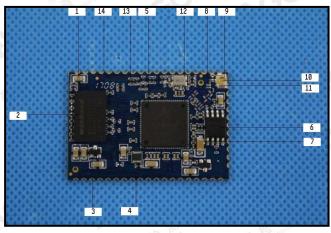
Report No.: A001E20171120056 Date: Dec.11, 2017 Page 7 of 7

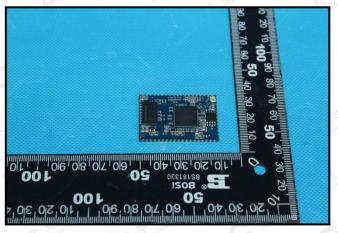
Test Flow Chart

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



The photo of the sample





A001E20171120056

AGC authenticate the photo only on original report

*** End of Report ***

The results shown in this jest report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.agc-cett.com.

No.17 C