

REPORT No.: R2SH160825F0502E Date: September 19, 2016 Page 1 of 5

Shanghai SIMCom Wireless Solutions Ltd SIM Technology Building, No.633, Jinzhong Road, Changning District, Shanghai, P.R. China

Report on the submitted samples said to be:

Sample Description : GSM/GPRS Module

Style/Item No. : SIM800/ SIM808

Manufacturer : Shenyang SIMCom Ltd

Sample Receiving Date : August 25, 2016

Testing Period : From August 25, 2016 to September 19, 2016

Results : Please refer to next page(s).

Summary of Test Results:

TEST REQUEST CONCLUSION

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

Signed for and on behalf of BACL

Checked by:

Jane Xu

Technical Supervisor

Approved by:

William Wei

Laboratory Manager

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Bay Area Compliance Laboratories Corp. (Dongguan)

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REPORT No.: R2SH160825F0502E Date: September 19, 2016 Page 2 of 5

Results:

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

Test method: With reference to IEC62321-3-1:2013 screening by X-ray Fluorescence Spectroscopy (XRF)

Seq.	Tooted Post(o)	Results				
No.	Tested Part(s)	Pb	Cd	Hg	Cr	Br
1	Yellow plastic with white/black/red printing(label)①-②	BL	BL	BL	BL	BL
2	Silvery metal(shield)①-②	BL	BL	BL	BL	
3	Black body(IC)①-②	BL	BL	BL	BL	BL
4	Golden body(crystal)①-②	BL	BL	BL	BL	BL
5	Brown body(SMD capacitor)①-②	BL	BL	BL	BL	BL
6	Black/white body(SMD resistor)①-②	BL	BL	BL	BL	BL
7* ¹	Chocolate body with white printing(crystal) ①-②	OL	BL	BL	BL	BL
8	Black body(triode)①-②	BL	BL	BL	BL	BL
9	Black body(diode)①-②	BL	BL	BL	BL	BL
10	Black body(EC)①	BL	BL	BL	BL	BL
11	Black body(small IC)②	BL	BL	BL	BL	BL
12	Green PCB①-②	BL	BL	BL	BL	BL
13	Silvery solder①-②	BL	BL	BL	BL	
14	Black body(RF-IC)①-②	BL	BL	BL	BL	BL

Remark: ①SIM800 ②SIM808

-- = Not Conducted

= As claimed by the material declaration submitted by the client, the materials of the sample No.7 is ceramic. And according to RoHS directive 2011/65/EU and its amendments, Lead is exempted in electronic ceramic parts (e.g. piezoelectronic devices).

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REPORT No.: R2SH160825F0502E Date: September 19, 2016 Page 3 of 5

Remark:

(1) Results were obtained by XRF for primary screening, 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 below warning value according to IEC62321-3-1:2013.

Element	Unit	Polymers	Metal	Composite Material	
Cd	mg/kg	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤70-3σ <x <130+3σ≤OL</x 	LOD <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></td><td>BL≤250-3σ<x< td=""></x<></td></x<>		BL≤250-3σ <x< td=""></x<>	

Note:

BL = Below Limit
OL = Over Limit

IN = Inconclusive (questionable, need further chemical analysis)

LOD = Limit of Detection

- (2) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (3) The maximum permissible limit is quoted from the RoHS directive 2011/65/EU:

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REPORT No.: R2SH160825F0502E Date: September 19, 2016 Page 4 of 5

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		

Remark:

- (4) As requested by applicant, only components shown in this report were screened by XRF spectroscopy for 2011/65/EU and its amendment directives, other components were not screened included in this report.
- (5) Photo appendix is included.

Disclaimers:

This XRF Screening 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 screening 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.

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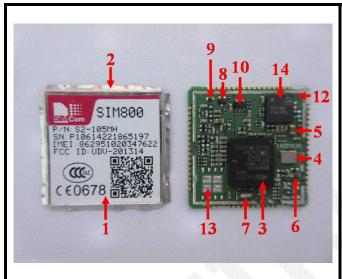
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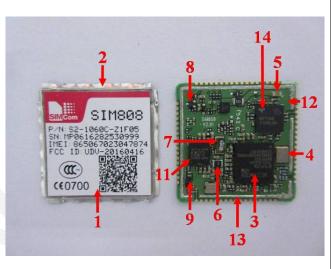


REPORT No.: R2SH160825F0502E Date: September 19, 2016 Page 5 of 5

Appendix

Photograph of Sample





BACL authenticate the photo on original report only

*** End of Report ***

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