



# TEST REPORT

REPORT No.: R2SH160428F0164E-M3

Date: May 24, 2016

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Hangzhou Gubei Electronics Technology Co., Ltd.  
Room 106, Building 1, No. 611 Jianghong Road, Binjiang, Hangzhou, Zhejiang 310052, China

This report is to supersede test report No. R2SH160428F0164E-M2 Date: May 23, 2016.

Report on the submitted samples said to be:

Sample Description : Smart Plug  
Style/Item No. : SP3  
Sample Receiving Date : April 28, 2016  
Testing Period : From April 28, 2016 to May 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 -XRF and Chemical test(Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs content) **Pass**

\*\*\*\*\*  
Signed for and on behalf of  
BACL

Checked by: \_\_\_\_\_  
Jane Xu  
Technical Supervisor

Approved by: \_\_\_\_\_  
William Wei  
Laboratory Manager

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**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. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
1	White plastic with white printing(label, back case)	BL	BL	BL	BL	BL
2*	White plastic(back case, Smart Plug)	BL	BL	BL	BL	IN
3	Silvery metal(screw, back case)	BL	BL	BL	BL	---
4	White plastic with pink printing(jacket, flat cable)	BL	BL	BL	BL	BL
5	Silvery plated coppery metal(wire, flat cable)	BL	BL	BL	BL	---
6	White plastic(shell, terminal, flat cable)	BL	BL	BL	BL	BL
7	Silvery plated golden metal(terminal, flat cable)	BL	BL	BL	BL	---
8	Off white plastic(button, front case)	BL	BL	BL	BL	BL
9*	Natural PCB(gasket, front case)	BL	BL	BL	BL	IN
10*	Lt beige plastic(shell, socket "BOT", PCB"CC-GER(EN)-L-V1.6")	BL	BL	BL	BL	IN
11	Silvery plated coppery metal(pin, socket "BOT")	BL	BL	BL	BL	---
12	Golden metal(button, switch"SW6", PCB"CC-GER(EN)-L-V1.6")	BL	BL	BL	BL	---
13	Silvery metal(plate, switch"SW6")	BL	BL	BL	BL	---
14	Silvery metal(foil, switch"SW6")	BL	BL	BL	BL	---
15	Yellow adhesive plastic(film, switch"SW6")	BL	BL	BL	BL	BL
16	Black plastic(base, switch"SW6")	BL	BL	BL	BL	BL
17	Silvery plated golden metal(pin, switch"SW6")	BL	BL	BL	BL	---
18	Black body(triode"Q2", PCB"CC-GER(EN)-L-V1.6")	BL	BL	BL	BL	BL
19	Black/white body(resister"R3", PCB"CC-GER(EN)-L-V1.6")	BL	BL	BL	BL	BL
20	Yellow body(LED"D12", PCB"CC-GER(EN)-L-V1.6")	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
21	Brown body(capacitor"C1", PCB"CC-GER(EN)-L-V1.6")	BL	BL	BL	BL	BL
22*	Off white PCB(PCB"CC-GER(EN)-L-V1.6", front case)	BL	BL	BL	BL	IN
23	Silvery solder(PCB"CC-GER(EN)-L-V1.6", front case)	BL	BL	BL	BL	---
24	White plastic(sheet, front case)	BL	BL	BL	BL	BL
25*	Dull red plastic(sheet, front case)	BL	BL	BL	BL	IN
26	Silvery metal with black coating(spring, front case)	BL	BL	BL	BL	---
27*	White plastic(front case, Smart Plug)	BL	BL	BL	BL	IN
28	Silvery plated coppery metal(connector, Smart Plug)	BL	BL	BL	BL	---
29	Silvery plated golden metal(pin, Smart Plug)	BL	BL	BL	BL	---
30	Golden metal(connector, Smart Plug)	BL	BL	BL	BL	---
31	Blue plastic(wire jacket, main PCB)	BL	BL	BL	BL	BL
32	Brown plastic(wire jacket, main PCB)	BL	BL	BL	BL	BL
33	Lt beige plastic(shell, socket "TOP", main PCB)	BL	BL	BL	BL	BL
34	Silvery plated golden metal(pin, socket "TOP")	BL	BL	BL	BL	---
35*	Black plastic with grey printing(case, relay, main PCB)	BL	BL	BL	BL	IN
36*	White plastic(coil holder, relay)	BL	BL	BL	BL	IN
37	Coppery metal(coil, relay)	BL	BL	BL	BL	---
38	Silvery solder(coil, relay)	BL	BL	BL	BL	---
39	Coppery metal(holder, contacts, relay)	BL	BL	BL	BL	---
40	Coppery metal(contact plate, relay)	BL	BL	BL	BL	---
41	Silvery metal(plate, relay)	BL	BL	BL	BL	---
42*	Black plastic(base, relay)	BL	BL	BL	BL	IN
43* <sup>1</sup>	Silvery plated coppery metal(contacts, relay)	BL	OL	BL	BL	---

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
44*	White plastic(sheet, relay)	BL	BL	BL	BL	IN
45	Camel body with brown printing(EC, main PCB)	BL	BL	BL	BL	BL
46	Dull green body with black printing(EC"RT1", main PCB)	BL	BL	BL	BL	BL
47	Black material(sealing, fuse"F1", main PCB)	BL	BL	BL	BL	BL
48	White material(filling, fuse"F1")	BL	BL	BL	BL	BL
49	Silvery metal(inner, fuse"F1")	BL	BL	BL	BL	---
50	Silvery metal(spring, fuse"F1")	BL	BL	BL	BL	---
51	Golden metal(foil, fuse"F1")	BL	BL	BL	BL	---
52	Silvery plated golden metal(shell, fuse"F1")	BL	BL	BL	BL	---
53	Silvery metal(pin, fuse"F1")	BL	BL	BL	BL	---
54	Silvery solder(pin, fuse"F1")	BL	BL	BL	BL	---
55*	Black body with grey printing(diode"D3", main PCB)	BL	BL	BL	BL	IN
56	Green body with multicolor printing(inductor"L1", main PCB)	BL	BL	BL	BL	BL
57	Black plastic with grey printing(sleeve, inductor"L2", main PCB)	BL	BL	BL	BL	BL
58	Grey body(inductor"L2", main PCB)	BL	BL	BL	BL	BL
59	Purple plastic with white printing(sleeve, capacitor"C6", main PCB)	BL	BL	BL	BL	BL
60	Silvery metal(shell, capacitor"C6")	BL	BL	BL	BL	---
61	Black soft plastic(base, capacitor"C6")	BL	BL	BL	BL	BL
62	Transparent soft plastic(film, capacitor"C6")	BL	BL	BL	BL	BL
63	Brown paper with liquid(film, capacitor"C6")	BL	BL	BL	BL	BL
64	Silvery metal(foil, capacitor"C6")	BL	BL	BL	BL	---
65	Dull silvery metal(foil, capacitor"C6")	BL	BL	BL	BL	---
66	Silvery metal(connector, capacitor"C6")	BL	BL	BL	BL	---
67	Silvery metal(pin, capacitor"C6")	BL	BL	BL	BL	---

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
68	Black plastic with grey printing(sleeve, capacitor"C3", main PCB)	BL	BL	BL	BL	BL
69*	Black body(diode"D6", main PCB)	BL	BL	BL	BL	IN
70	Black body(triode"Q5", main PCB)	BL	BL	BL	BL	BL
71	Black body(EC"U1", main PCB)	BL	BL	BL	BL	BL
72	Brown body(capacitor"C8", main PCB)	BL	BL	BL	BL	BL
73	White body(capacitor"C7", main PCB)	BL	BL	BL	BL	BL
74	Grey body(inductor"L3", main PCB)	BL	BL	BL	BL	BL
75	Black/white body(resister"R6", main PCB)	BL	BL	BL	BL	BL
76*	Green PCB(main PCB)	BL	BL	BL	BL	IN
77	Silvery solder(main PCB)	BL	BL	BL	BL	---
78	Silvery metal(shield, PCB"MINI-7681-V1.6")	BL	BL	BL	BL	---
79	Black body with brown printing(EC, PCB"MINI-7681-V1.6")	BL	BL	BL	BL	BL
80	Black body with brown printing(IC, PCB"MINI-7681-V1.6")	BL	BL	BL	BL	BL
81	Grey body(inductor, PCB"MINI-7681-V1.6")	BL	BL	BL	BL	BL
82	Golden body(crystal, PCB"MINI-7681-V1.6")	BL	BL	BL	BL	BL
83	Black/white body(resister, PCB"MINI-7681-V1.6")	BL	BL	BL	BL	BL
84	Brown body(capacitor, PCB"MINI-7681-V1.6")	BL	BL	BL	BL	BL
85	White body(EC, PCB"MINI-7681-V1.6")	BL	BL	BL	BL	BL
86	Golden/white body(EC, PCB"MINI-7681-V1.6")	BL	BL	BL	BL	BL
87*	Navy PCB(PCB"MINI-7681-V1.6", main PCB)	BL	BL	BL	BL	IN
88	Silvery solder(PCB"MINI-7681-V1.6", main PCB)	BL	BL	BL	BL	---
89	White plastic with white printing(label, PCB"MINI-7681-V1.6", main PCB)	BL	BL	BL	BL	BL

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- = Not Conducted
- \* = Screening by XRF and detected by chemical method. The test results of chemical method please refer to next pages.
- \*1 = As claimed by the material declaration submitted by the client, the materials of the sample No. 43 is electrical contacts. And according to RoHS directive 2011/65/EU and its amendments, Cadmium and its compounds is exempted in electrical contacts

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	BL≤70-3σ<X <130+3σ≤OL	LOD<X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ<X <1300+3σ≤OL	BL≤700-3σ<X <1300+3σ≤OL	BL≤500-3σ<X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ<X	BL≤700-3σ<X	BL≤500-3σ<X
Br	mg/kg	BL≤300-3σ<X	--	BL≤250-3σ<X

Note:

- BL = Below Limit
- OL = Over Limit
- IN = Inconclusive (questionable, need further chemical analysis)
- LOD = Limit of Detection

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- (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:

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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**The Test Results of Chemical Method:**

Test method:

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

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1) The test results of PBBs & PBDEs

Item	Unit	MDL	Results			Limit
			2	9	10	
<b>Polybrominated Biphenyls (PBBs)</b>						
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	1000 mg/kg
<b>Polybrominated Diphenylethers (PBDEs)(Mon-Deca)</b>						
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	1000 mg/kg
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	

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Item	Unit	MDL	Results			Limit
			22	25	27	
<b>Polybrominated Biphenyls (PBBs)</b>						
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	1000 mg/kg
<b>Polybrominated Diphenylethers (PBDEs)(Mon-Deca)</b>						
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	1000 mg/kg
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	

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Item	Unit	MDL	Results			Limit
			35	36	42	
<b>Polybrominated Biphenyls (PBBs)</b>						
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	1000 mg/kg
<b>Polybrominated Diphenylethers (PBDEs)(Mon-Deca)</b>						
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	1000 mg/kg
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	

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Tel: +86-769-86858888 Fax: +86-769-86858891

# TEST REPORT

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Item	Unit	MDL	Results			Limit
			44	55	69	
<b>Polybrominated Biphenyls (PBBs)</b>						
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	1000 mg/kg
<b>Polybrominated Diphenylethers (PBDEs)(Mon-Deca)</b>						
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	1000 mg/kg
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	

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Item	Unit	MDL	Results		Limit
			76	87	
<b>Polybrominated Biphenyls (PBBs)</b>					
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	1000 mg/kg
<b>Polybrominated Diphenylethers (PBDEs)(Mon-Deca)</b>					
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	1000 mg/kg
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	

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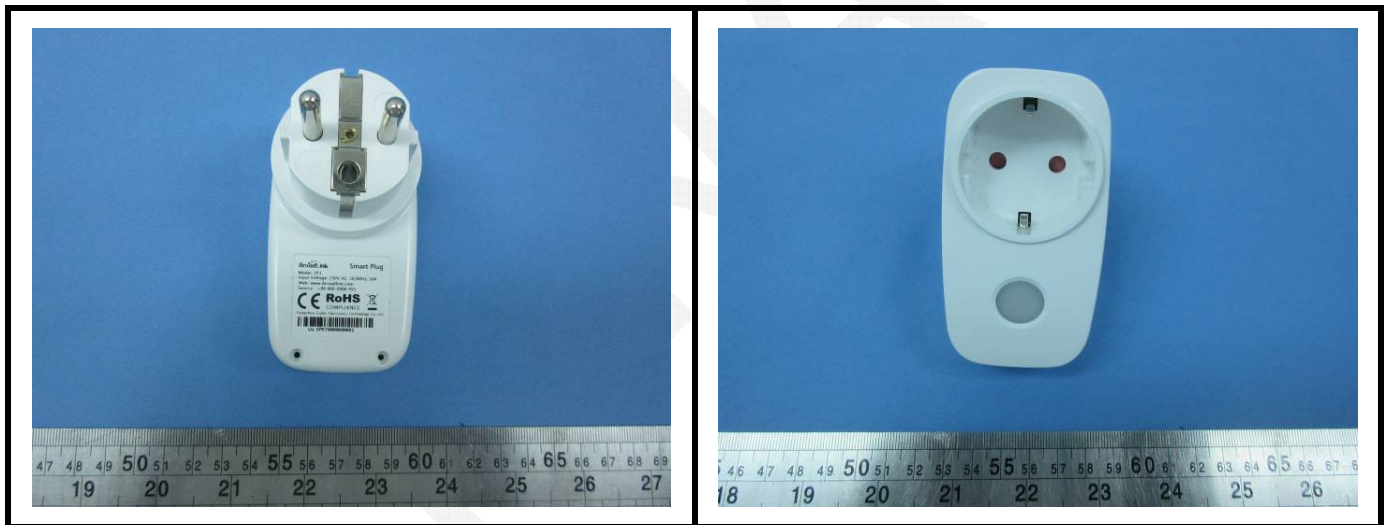
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Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit
- The results less than MDL are not taken into account while calculating the sum contents.
- Photo appendix is included.

## Appendix

Photograph of Sample



BACL authenticate the photo on original report only

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

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