

APPLICANT : SMART-GROUP (Dongguan Shima Electronics Co., Ltd)  
No.135, Huancheng Road, Mawu Village, Qiaoli Management  
Community, Changping Town, Dongguan city, Guangdong  
Province, China.

REPORT ON THE SUBMITTED SAMPLE SAID TO BE

SAMPLE NAME : Room Management Controls  
TYPE /MODEL : SB-6BS-EU, SB-FDP-US, SB-6BS-US, SB-4BS-EU, SB-4BS-US,  
SB-3BS-EU, SB-3BS-US, SB-6RM-Part-DN  
MANUFACTURER : SMART-GROUP (Dongguan Shima Electronics Co., Ltd)  
TEST REPORT NUMBER : 201205830R  
SAMPLE RECEIVED DATE : May 29, 2012  
TESTING PERIOD : May 29, 2012 to Jun. 07, 2012

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TEST REQUESTED: TO COMBINE THE TEST RESULT FOR THE SUBMITTED SAMPLE  
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CONCLUSION:

<u>TESTED SAMPES</u>	<u>STANDARD</u>	<u>RESULT</u>
SUBMITTED SAMPLE	EUROPEAN DIRECTIVE 2011/65/EU RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES (RoHS Directive)	PASS

\*\*\*\*\*FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

Signed for and on behalf of ANBOTEK COMPLIANCE LABORATORY LIMITED

Written by Andy Shen

Inspected by Terry Tian

Approved Jeff zhu  
Jeff Zhu / Manager

**Testing method:**

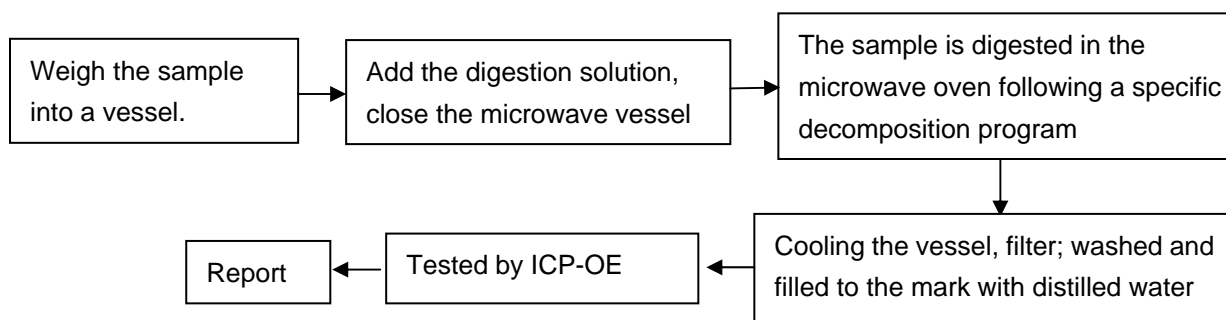
Testing Item	Measuring method	Instrument	Report Limit
Cadmium (Cd)	EN 1122B	ICP-AES	2 mg/kg
Lead (Pb)	EPA 3050B	ICP-AES	2 mg/kg
Mercury (Hg)	EPA 3052	ICP-AES	2 mg/kg
Chromium(VI) [Cr(VI)]	EPA 3060A	UV-VIS	2 mg/kg
Polybrominated Biphenyl (PBB)	83/264/EEC	GC/MS	5 mg/kg
Polybrominated Diphenylether (PBDE)	83/264/EEC	GC/MS	5 mg/kg

**Method detection Limits:**

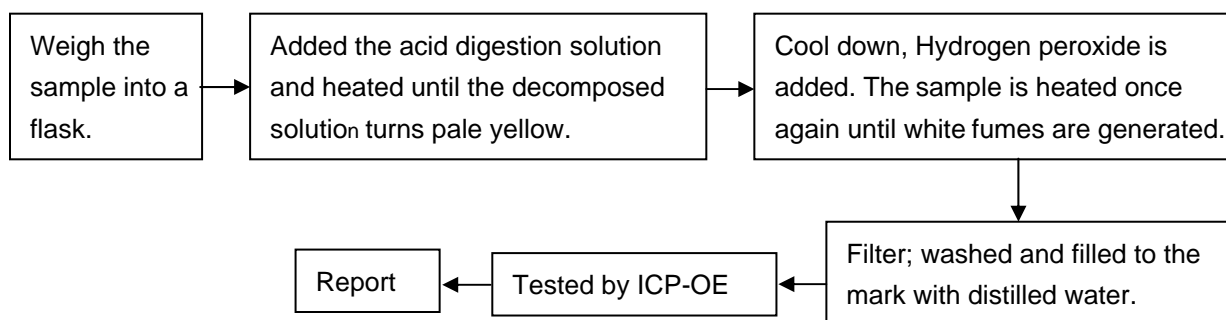
Test Item	Unit	Acceptable Limit
Cadmium (Cd)	ppm	100
Lead (Pb)	ppm	1000
Mercury (Hg)	ppm	1000
Chromium(VI) [Cr(VI)]	ppm	1000
Polybrominated Biphenyl (PBB)	ppm	1000
Polybrominated Diphenylether (PBDE)	ppm	1000

**Test flow:**

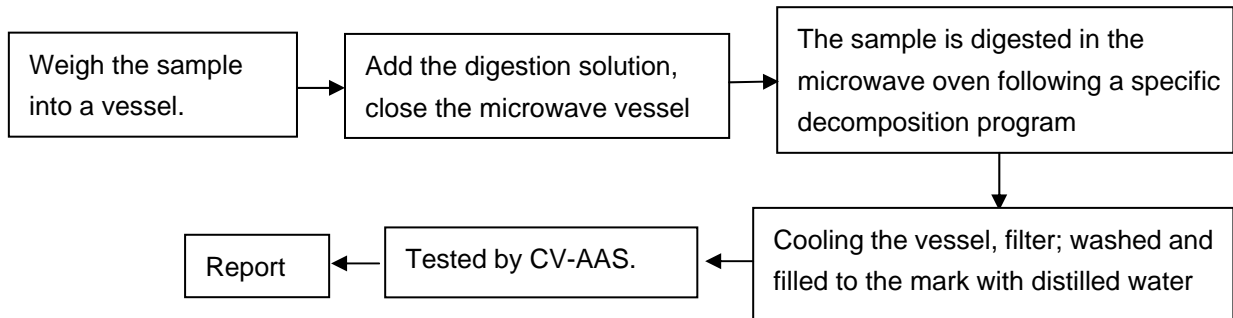
1. To Determine lead Content:



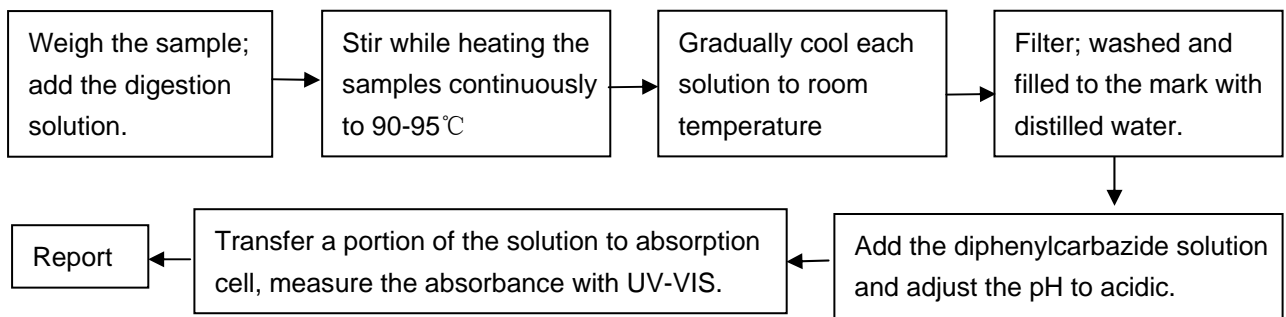
2. To Determine Cadmium Content:



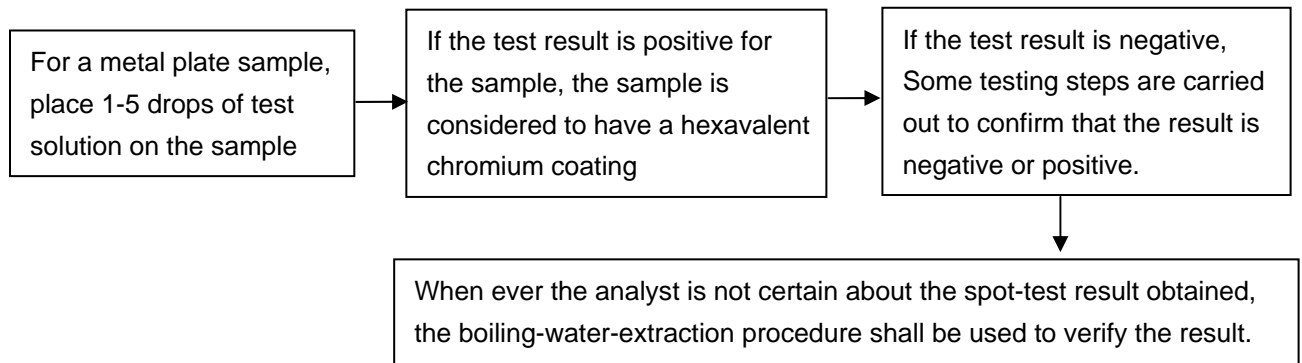
3. To Determine Mercury Content:



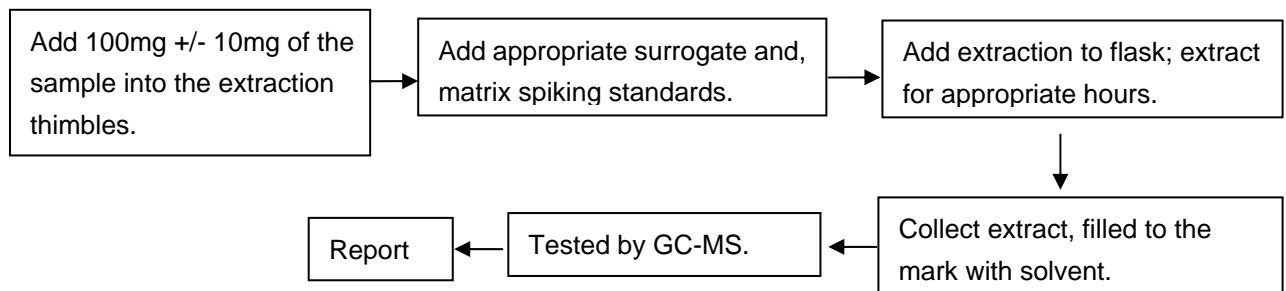
4. To Determine Hexavalent Chromium Content:



5. To Determine Hexavalent Chromium Content in metals:  
spot-test:



6. To Determine PBBs / PBDEs Content:



**Test Results**

Item	Unit	MDL	<u>No.</u> <u>1</u>	<u>No.</u> <u>2</u>	<u>No.</u> <u>3-1</u>	<u>No.</u> <u>3-2</u>	<u>No.</u> <u>4-1</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.	Negative	N.D.	Negative	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.A.	N.D.	N.A.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.A.	N.D.	N.A.	N.D.

Item	Unit	MDL	<u>No.</u> <u>4-2</u>	<u>No.</u> <u>5-1</u>	<u>No.</u> <u>5-2</u>	<u>No.</u> <u>6-1</u>	<u>No.</u> <u>6-2</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	Negative	N.D.	Negative	N.D.	Negative
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.A.	N.D.	N.A.	N.D.	N.A.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.A.	N.D.	N.A.	N.D.	N.A.

Item	Unit	MDL	<u>No.</u> <u>7-1</u>	<u>No.</u> <u>7-2</u>	<u>No.</u> <u>8-1</u>	<u>No.</u> <u>8-2</u>	<u>No.</u> <u>9-1</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.	Negative	N.D.	Negative	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.A.	N.D.	N.A.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.A.	N.D.	N.A.	N.D.

Item	Unit	MDL	<u>No.</u> <u>9-2</u>	<u>No.</u> <u>10-1</u>	<u>No.</u> <u>10-2</u>	<u>No.</u> <u>10-3</u>	<u>No.</u> <u>10-4</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	Negative	Negative	Negative	Negative	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.A.	N.A.	N.A.	N.A.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.A.	N.A.	N.A.	N.A.	N.D.

Item	Unit	MDL	<u>No.</u> <u>10-5</u>	<u>No.</u> <u>10-6</u>	<u>No.</u> <u>10-7</u>	<u>No.</u> <u>10-8</u>	<u>No.</u> <u>11-1</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.D.	N.D.	N.D.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.D.	N.D.	N.D.	N.D.

Item	Unit	MDL	<u>No.</u> <u>11-2</u>	<u>No.</u> <u>12</u>	<u>No.</u> <u>13</u>	<u>No.</u> <u>14-1</u>	<u>No.</u> <u>14-2</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	Negative	Negative	Negative	Negative	Negative
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.A.	N.A.	N.A.	N.A.	N.A.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.A.	N.A.	N.A.	N.A.	N.A.

Item	Unit	MDL	<u>No.</u> <u>14-3</u>	<u>No.</u> <u>14-4</u>	<u>No.</u> <u>14-5</u>	<u>No.</u> <u>14-6</u>	<u>No.</u> <u>14-7</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	Negative	N.D.	Negative	N.D.	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.A.	N.D.	N.A.	N.D.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.A.	N.D.	N.A.	N.D.	N.D.

Item	Unit	MDL	<u>No.</u> <u>14-8</u>	<u>No.</u> <u>15-1</u>	<u>No.</u> <u>15-2</u>	<u>No.</u> <u>15-3</u>	<u>No.</u> <u>16</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.	Negative	N.D.	Negative	Negative
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.A.	N.D.	N.A.	N.A.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.A.	N.D.	N.A.	N.A.

Item	Unit	MDL	<u>No.</u> <u>17</u>	<u>No.</u> <u>18</u>	<u>No.</u> <u>19</u>	<u>No.</u> <u>20</u>	<u>No.</u> <u>21</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.	Negative	Negative	Negative	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.A.	N.A.	N.A.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.A.	N.A.	N.A.	N.D.

Item	Unit	MDL	<u>No.</u> <u>22</u>	<u>No.</u> <u>23</u>			
Lead Content (Pb)	ppm	2	N.D.	N.D.			
Cadmium (Cd)	ppm	2	N.D.	N.D.			
Mercury Content(Hg)	ppm	2	N.D.	N.D.			
Hexavalent Chromium Content [Cr(VI)]	ppm	2	N.D.	N.D.			
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.D.			
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.D.			

NOTE: (1) ppm=mg/kg.  
 (2) N.D.= NOT DETECTED (<MDL)  
 (3) N.A.= NOT APPLICABLE  
 (4) Spot-test:  
 Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

DISCLAIM: Anbotek take no responsibility for any mistakes caused by inaccurate and /or invalid information submitted by the applicant.

**Sample Appearance Description**

<b>Item No.</b>	<b>Part Name</b>	<b>Description</b>
1	PCB	Green PCB (mixed)
2	TIN	Silvery metal
3	CHIP IC	---
3-1	BODY	Black body w/ gray printing
3-2	PIN	Silvery metal pin
4	CHIP RESISTOR	---
4-1	BODY	Black body w/ white printing
4-2	PIN	Silvery metal pin
5	CHIP CAPACITOR	---
5-1	BODY	Brown body
5-2	PIN	Silvery metal pin
6	CHIP DIODE	---
6-1	BODY	Black body
6-2	PIN	Silvery metal pin
7	CHIP DIODE	---
7-1	BODY	White body
7-2	PIN	Silvery metal pin
8	HIGH-PRESSURE CERAMICS CAPACITOR	---
8-1	BODY	Blue body w/ black printing
8-2	PIN	Silvery metal pin
9	Y CAPACITOR	---
9-1	BODY	Blue body
9-2	PIN	Silvery metal pin
10	ELECTROLYTICAL CAPACITOR	---
10-1	FOIL	Gray metal
10-2	PIN	Silvery metal pin
10-3	ALUMINIUM	Silvery metal shell
10-4	LIQUID	Flaxen liquid
10-5	PAPER	Green paper
10-6	RUBBER	Black rubber
10-7	HEAT SHRINKABLE TUBINGS	Black plastic tube
10-8	SHELL	Brown plastic
11	RESISTOR	---
11-1	BODY	Gray body w/ colourful printing



<b>Item No.</b>	<b>Part Name</b>	<b>Description</b>
11-2	PIN	Silvery metal pin
12	CHIP GLASS DIODE	Black/orange body w/ silvery metal edge
13	CHIP GLASS DIODE	Black/blue body w/ silvery metal edge
14	TRANSFORMER	---
14-1	METAL WIRE	Silvery color metal
14-2	LITZ WIRE	Copper-colored metal wire w/ transparent surface
14-3	TIN BAR	Silvery metal
14-4	INSULATION PAINT	Transparent liquid
14-5	INSULATION WIRE	Mixed yellowish brown plastic jacket & golden colored metal wire
14-6	ADHESIVE TAPE	Yellow pvc adhesive tape
14-7	BRACKET	Black granule
14-8	MN-ZN CORE	Dk-grey core
15	WIRE WINDING COIL	---
15-1	WIRE	Copper color metal wire
15-2	RING	Yellow body
15-3	PIN	Silvery metal pin
16	AUDION	Black body w/ silvery metal edge
17	DRIVEPIPE	Black plastic
18	BRACE SCREW	Copper color metal w/ silvery metal edge
19	CONNECTOR	Black body w/ silvery metal edge
20	FUSE	Black body w/ silvery metal edge
21	SLICE	Transparent plastic slice
22	COVER	White plastic
23	SCREW	Silvery metal screw

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

**APPENDIX A**

**Photograph of Sample**

