RoHS Test Report No. 201205832R Date: Jun. 07, 2012 Page 1 of 11

 APPLICANT : SMART-GROUP (DONGGUAN SHIMA ELECTRONICS CO.,

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 : Integration and Contorl Systems

TYPE /MODEL : See page 2

MANUFACTURER : SMART-GROUP (DONGGUAN SHIMA ELECTRONICS CO.,

LTD)

TEST REPORT NUMBER : 201205832R SAMPLE RECEIVED DATE : May 29, 2012

TESTING PERIOD : May 29, 2012 to Jun. 07, 2012

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

CONCLUSION:

STANDARD TESTED SAMPES **RESULT** SUBMITTED SAMPLE **EUROPEAN DIRECTIVE 2011/65/EU PASS**

> ON THE RESTRICTION OF THE USE OF **CERTAIN HAZARDOUS SUBSTANCES**

(RoHS Directive)

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

Signed for and on behalf of ANBOTEK COMPLIANCE LABORATORY LIMITED

Written by

Inspected by Terry Tian

TYPE /MODEL:

SB-4Z-UN, SB-SEC250-DN, SB-LOGIC2-DN, SB-ZAUDIO2-DN, SB-4Z-UN, SB-RSIP-DN, SB-RS232-DN, SB-DMX512-DN, SB-WEB-DN, SB-KNX-DN, SB-BAC-DN, SB-MOD-DN, SB-HAI-DN, SB-NUVO-DN, SB-GREE-DN, SB-WBUS-DN, SB-DALI-DN, SB-DDPH-EU, SB-DDPH-US, SB-3SBELL-WL, SB-BEDSD-UN, SB-3SBXS-WL, SB-3SCARD-WL, SB-HAPPWER-WL, SB-DDP-EU, SB-FDP-US, SB-FDP-EU SB-2A/EPS-FL, OE-2A/IPS-WL, RS-CS65K-CL, RS-OWS-WL, OU-SPK6X-FL, SB-CDP-T, SB-CDP-J, SB-FDP8-T, SB-UPM-EU, SB-UPM-US, SB-FASSIALDPP-EU, SB-FASSIAL6B-EU, SB-1SBXS-WL, SB-XS-WL, BOARDSD-UN, SB-STAND-UN, SB-CUSTODIAL-UN, SB-PADBOX-WL,

OE-PADMOUNT-WL, SB-REMOTE5-HH, OE-MAG3-WL, OE-MAG2-WL, OE-IMAG7-FL, SB-EMS-DN, SB-SGATE-FL, SB-BRIDGE-DN, SB-BEDSD-UN, SB-DMX48-DN, SB-IMPULSE-UN, SB-PM5-DN, SB-SMS-DN, SB-PSMS-DN, SB-MINI4I/O-UN, WLEAK-UN, OE-SVALVEL, OE-MINISF-UN, OE-SF-UN, OE-PS2AUL-DN, SB-CONNECT-4D, SB-CONNECT-4S, SB-CONNECT-3I, SB-CNNECT-3S, SB-CONNECT-5L, OE-2FUSEH-DN, OE-FUSE-2A, OE-FUSE-3A, OE-FUSE-5A, SB-UPGRADE-KIT, SB-IRL-KIT, SB-SCREWD-FL, SB-HOTESD-UN, SB-H3S-WL, SB-HAUX-WL, SB-CARDRR-FL

RoHS Test Report

No. 201205832R

Page 3 of 11

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

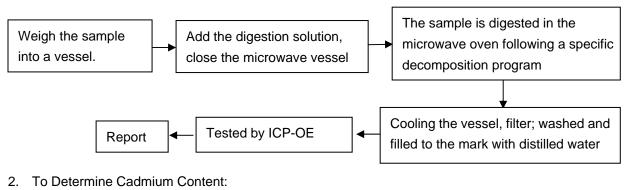
Date: Jun. 07, 2012

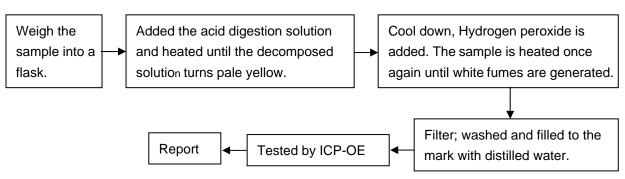
Method detection Limits:

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:





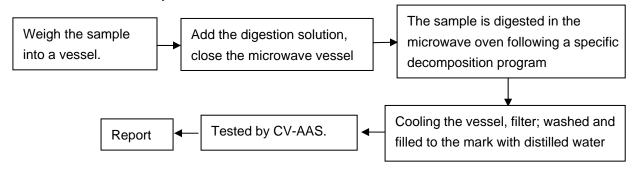
RoHS Test Report

No. 201205832R

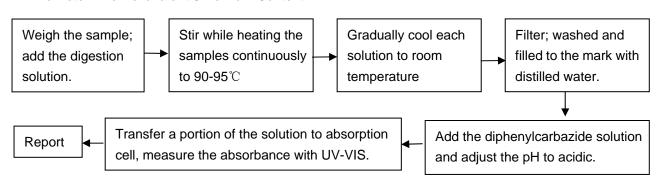
Date: Jun. 07, 2012

Page 4 of 11

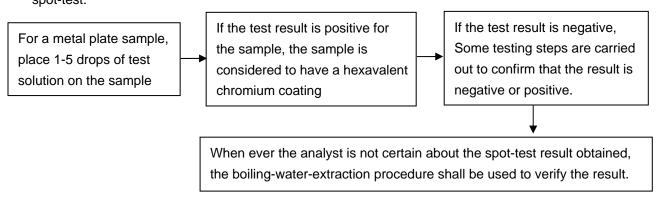
3. To Determine Mercury Content:



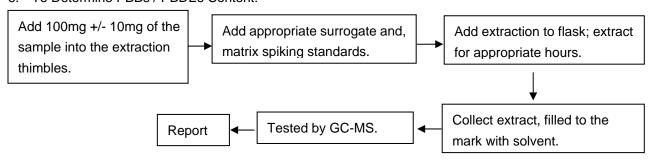
4. To Determine Hexavalent Chromium Content:



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



6. To Determine PBBs / PBDEs Content:



RoHS Test Report No. 201205832R

Date: Jun. 07, 2012

Page 5 of 11

Test Results

Item	Unit	MDL	No.	No.	No.	No.	No.
			<u>1</u>	<u>2</u>	<u>3-1</u>	<u>3-2</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 biphenyis (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	No.	No.	No.	No.	No.
			<u>4-2</u>	<u>5-1</u>	<u>5-2</u>	<u>6-1</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 biphenyis (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	No.	No.	No.	No.	<u>No.</u>
			<u>7-1</u>	<u>7-2</u>	<u>7-3</u>	<u>7-4</u>	<u>7-5</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	N.D.	N.D.
Flame Retardants							
Polybrominated biphenyis (PBBs)	ppm	5	N.A.	N.A.	N.A.	N.D.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.A.	N.A.	N.A.	N.D.	N.D.

RoHS Test Report No. 201205832R Date: Jun. 07, 2012 Page 6 of 11

Item	Unit	MDL	No.	No.	No.	No.	No.
			<u>7-6</u>	<u>7-7</u>	<u>7-8</u>	<u>8-1</u>	<u>8-2</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	N.D.	N.D.	N.D.	N.D.	Negative
Flame Retardants							
Polybrominated biphenyis (PBBs)	ppm	5	N.D.	N.D.	N.D.	N.D.	N.A.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.D.	N.D.	N.D.	N.A.

Item	Unit	MDL	No.	No.	No.	No.	No.
			<u>9-1</u>	<u>9-2</u>	<u>9-3</u>	<u>10-1</u>	<u>10-2</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	N.D.	N.D.	Negative	N.D.	Negative
Flame Retardants							
Polybrominated biphenyis (PBBs)	ppm	5	N.D.	N.D.	N.A.	N.D.	N.A.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.D.	N.A.	N.D.	N.A.

Item	Unit	MDL	No.	<u>No.</u>	No.	No.	No.
			<u>10-3</u>	<u>11-1</u>	<u>11-2</u>	<u>11-3</u>	<u>11-4</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	N.D.	Negative	N.D.
Flame Retardants							
Polybrominated biphenyis (PBBs)	ppm	5	N.A.	N.A.	N.D.	N.A.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.A.	N.A.	N.D.	N.A.	N.D.

RoHS Test Report No. 201205832R Date: Jun. 07, 2012 Page 7 of 11

Item	Unit	MDL	No.	No.	No.	No.	No.
			<u>11-5</u>	<u>11-6</u>	<u>12-1</u>	<u>12-2</u>	<u>12-3</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.	N.D.	Negative	Negative
Flame Retardants							
Polybrominated biphenyis (PBBs)	ppm	5	N.A.	N.D.	N.D.	N.A.	N.A.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.A.	N.D.	N.D.	N.A.	N.A.

Item	Unit	MDL	No.	No.	No.	No.	No.
			<u>13-1</u>	<u>13-2</u>	<u>14-1</u>	<u>14-2</u>	<u>15</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	N.D.	Negative	Negative
Flame Retardants							
Polybrominated biphenyis (PBBs)	ppm	5	N.A.	N.A.	N.D.	N.A.	N.A.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.A.	N.A.	N.D.	N.A.	N.A.

Item	Unit	MDL	<u>No.</u>	<u>No.</u>	No.	<u>No.</u>	<u>No.</u>
			<u>16</u>	<u>17-1</u>	<u>17-2</u>	<u>18</u>	<u>19</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	Negative	N.D.
Flame Retardants							
Polybrominated biphenyis (PBBs)	ppm	5	N.A.	N.D.	N.A.	N.A.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.A.	N.D.	N.A.	N.A.	N.D.

RoHS Test Report No. 201205832R Date: Jun. 07, 2012 Page 8 of 11

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

NOTE: (1) ppm=mg/kg.

(2) N.D.= NOT DETECTED (<MDL)

(3) N.A.= NOT APPLICABLE

(4) Negative = Absence of CrVI coating

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

RoHS Test Report No. 201205832R Date: Jun. 07, 2012 Page 9 of 11

Sample Appearance Description:

Campic Ap	pearance Description.	
Item No.	Part Name	Description
1	PCB	Green PCB (mixed)
2	TIN	Silvery metal
3	IC	
3-1	BODY	Black body
3-2	PIN	Silvery metal pin
4	RESISTOR	
4-1	BODY	Grey body w/ multicolor printing (mixed)
4-2	PIN	Silvery metal pin
5	CHIP RESISTOR	
5-1	BODY	Black body w/ white printing
5-2	PIN	Silvery metal pin
6	CHIP CAPACITOR	
6-1	BODY	Yellow body
6-2	PIN	Silvery metal pin
7	ELECTROLYTICAL CAPACITOR	
7-1	FOIL	Black metal
7-2	PIN	Silvery metal pin
7-3	ALUMINIUM	Silvery metal shell
7-4	LIQUID	Flaxen liquid
7-5	PAPER	Black paper
7-6	RUBBER	Black rubber
7-7	HEAT SHRINKABLE TUBINGS	Black plastic tube
7-8	SHELL	Black plastic
8	DIODE	
8-1	BODY	Black solid w/ grey printing (mixed)
8-2	PIN	Silvery metal pin
9	INDUCTOR	
9-1	COVER	Black rubber cover
9-2	CORE	Dk-grey core
9-3	PIN	Silvery metal pin
10	TERMINAL	
10-1	BODY	Green plastic body
10-2	WIRE	Silvery metal wire

RoHS Test Report No. 201205832R Date: Jun. 07, 2012 Page 10 of 11

Item No.	Part Name	Description
10-3	PIN	Silvery metal pin
11	TRANSFORMER	
11-1	METAL WIRE	Silvery color metal
11-2	CORE	Black core
11-3	TIN BAR	Silvery metal
11-4	INSULATION PAINT	Transparent liquid
11-5	INSULATION WIRE	Yellow plastic jacket & golden colored metal wire
11-6	SKELETON	Black skeleton
12	RELAY	
12-1	BODY	Black body
12-2	METAL	Silvery metal
12-3	PIN	Silvery metal pin
13	CRYSTAL	
13-1	BODY	Silvery metal body
13 -2	PIN	Silvery metal pin
14	CAPACITOR	
14-1	BODY	Blue body w/ black printing
14-2	PIN	Silvery metal pin
15	NEEDLE	Silvery bend metal
16	COPPER MAST	Copper-color meta
17	SWITCH	
17-1	BODY	Black body
17-2	PIN	Silvery metal
18	SCREW	Silvery metal
19	CRUST	Black plastic
20	LABEL	White label

^{*****} End of Report *****

APPENDIX A

Photograph of Sample

