

RoHS Test Report

No. 201311838R

Date: Nov. 26, 2013

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APPLICANT : High-Flying Electronics Technology Co., Ltd

Room 511, #7Building, No.365 Chuanhong Road, Pudong, Shanghai,
China

REPORT ON THE SUBMITTED SAMPLE SAID TO BE

SAMPLE NAME : Embedded Wi-Fi Module

TYPE /MODEL : HF-A11

MANUFACTURER : High-Flying Electronics Technology Co., Ltd

TEST REPORT NUMBER : 201311838R

SAMPLE RECEIVED DATE : Nov. 19, 2013

TESTING PERIOD : Nov. 19, 2013 to Nov. 26, 2013

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

CONCLUSION:

TESTED SAMPLES
SUBMITTED SAMPLE

STANDARD
EUROPEAN DIRECTIVE 2011/65/EU
ON THE RESTRICTION OF THE USE OF
CERTAIN HAZARDOUS SUBSTANCES
(RoHS Directive)

RESULT
PASS

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

Signed for and on behalf of SHENZHEN ANBOTEK COMPLIANCE LABORATORY LIMITED

Written by

Adeline Fan

Inspected by

July. Zhu

Approved

Jeff Zhu

Jeff Zhu / Manager



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Tel: (86) 755-26066544 Fax: (86) 755-26014772 Email: service@anbotek.com Http: //www.anbotek.com.cn

Testing method:

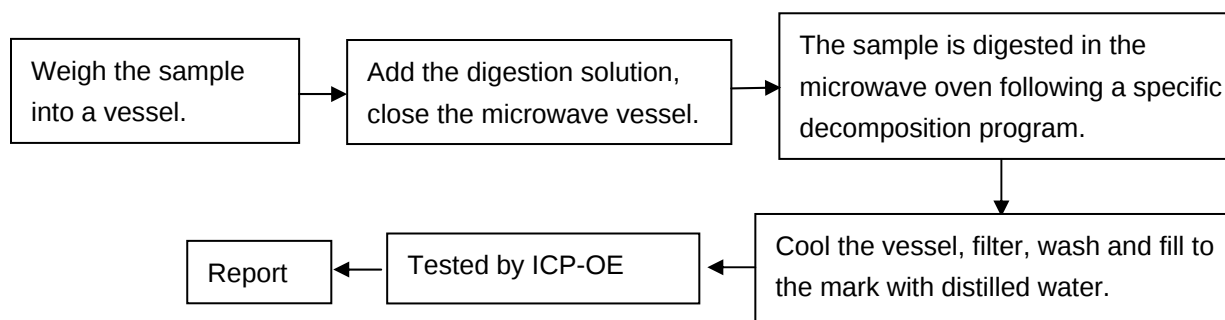
Testing Item	Measuring method	Instrument	Report Limit
Cadmium (Cd)	EN 1122B	ICP-AES	2 mg/kg
Lead (Pb)	EPA 3050B	ICP-AES	2 mg/kg
Mercury (Hg)	EPA 3052	ICP-AES	2 mg/kg
Chromium(VI) [Cr(VI)]	EPA 3060A	UV-VIS	2 mg/kg
Polybrominated Biphenyl (PBB)	83/264/EEC	GC/MS	5 mg/kg
Polybrominated Diphenylether (PBDE)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

Method detection Limits:

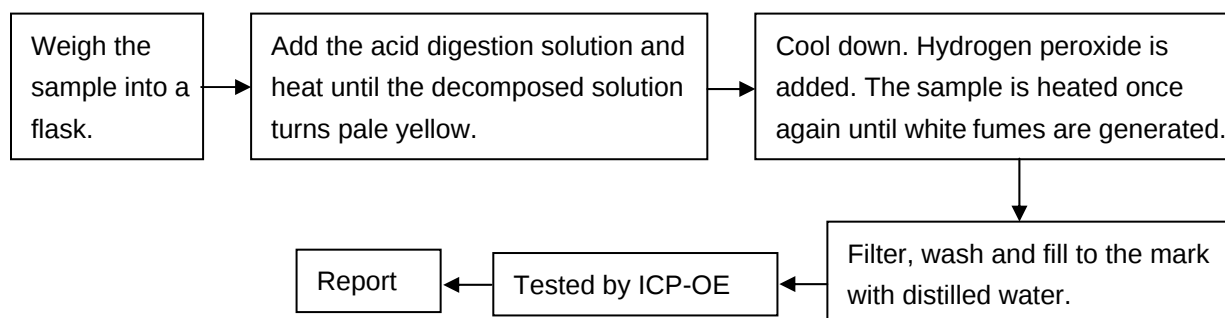
Test Item	Unit	Acceptable Limit
Cadmium (Cd)	ppm	100
Lead (Pb)	ppm	1000
Mercury (Hg)	ppm	1000
Chromium(VI) [Cr(VI)]	ppm	1000
Polybrominated Biphenyl (PBB)	ppm	1000
Polybrominated Diphenylether (PBDE)	ppm	1000

Test flow:

1. To Determine lead Content:



2. To Determine Cadmium Content:

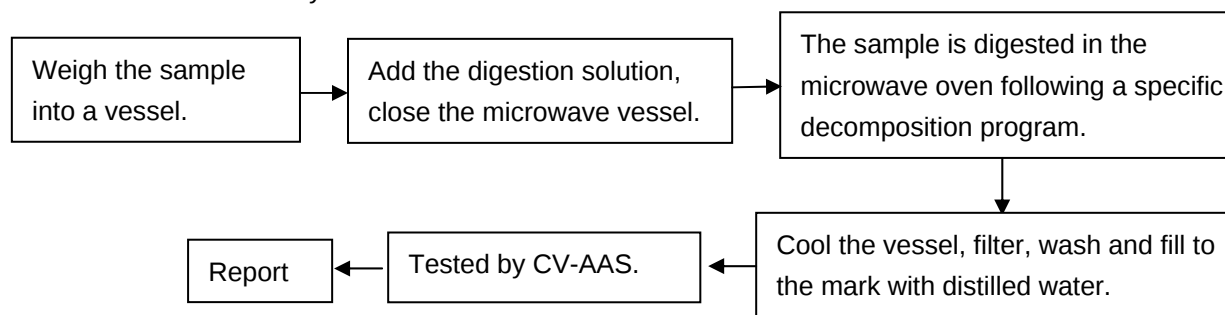


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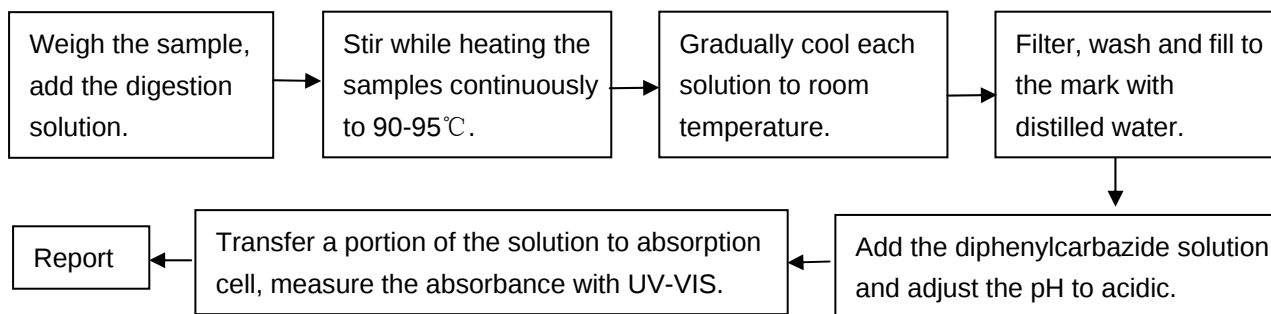
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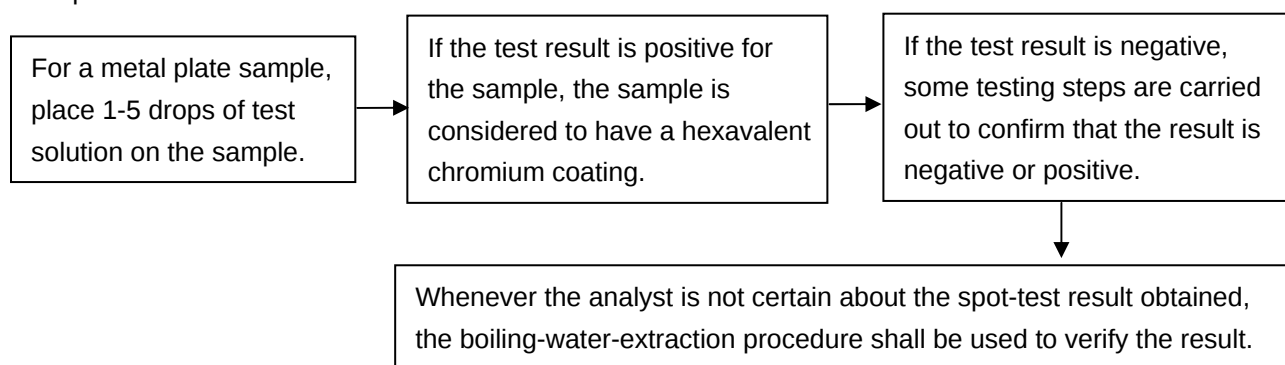
3. To Determine Mercury Content:



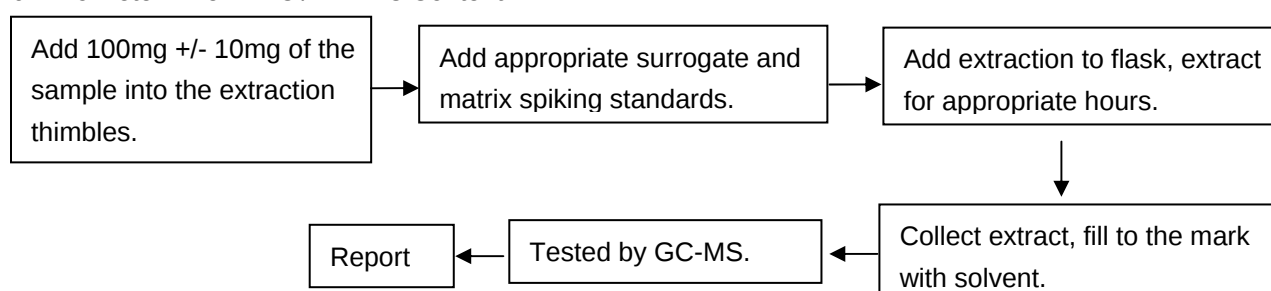
4. To Determine Hexavalent Chromium Content:



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



6. To Determine PBBs / PBDEs Content:



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Test Results

Item	Unit	MDL	No. <u>1</u>	No. <u>2</u>	No. <u>3</u>	No. <u>4</u>	No. <u>5</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium Content (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.	N.D.	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.A.	N.D.	N.D.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.A.	N.D.	N.D.	N.D.

Item	Unit	MDL	No. <u>6</u>	No. <u>7</u>	No. <u>8</u>	No. <u>9</u>	No. <u>10-1</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium Content (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.	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.D.	N.A.	N.D.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.D.	N.A.	N.D.	N.D.

Item	Unit	MDL	No. <u>10-2</u>	No. <u>11-1</u>	No. <u>11-2</u>	No. <u>11-3</u>	No. <u>11-4</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium Content (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 biphenyls (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.

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Item	Unit	MDL	No. <u>12</u>	No. <u>13</u>	No. <u>14-1</u>	No. <u>14-2</u>	No. <u>15-1</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium Content (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.	N.D.
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.D.	N.A.	N.D.	N.D.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.D.	N.A.	N.D.	N.D.

Item	Unit	MDL	No. <u>15-2</u>	No. <u>15-3</u>	No. <u>15-4</u>	No. <u>15-5</u>	No. <u>15-6</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium Content (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	Negative	Negative
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.D.	N.A.	N.A.	N.A.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.D.	N.A.	N.A.	N.A.

Item	Unit	MDL	No. <u>16-1</u>	No. <u>16-2</u>	No. <u>16-3</u>	No. <u>17-1</u>	No. <u>17-2</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium Content (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	N.D.	Negative
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.D.	N.A.	N.A.	N.D.	N.A.
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.D.	N.A.	N.A.	N.D.	N.A.

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Item	Unit	MDL	<u>No.</u> <u>17-3</u>	<u>No.</u> <u>17-4</u>	<u>No.</u> <u>17-5</u>	<u>No.</u> <u>18-1</u>	<u>No.</u> <u>18-2</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium Content (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>18-3</u>	<u>No.</u> <u>18-4</u>	<u>No.</u> <u>18-5</u>	<u>No.</u> <u>18-6</u>	<u>No.</u> <u>18-7</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium Content (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>19-1</u>	<u>No.</u> <u>19-2</u>	<u>No.</u> <u>19-3</u>	<u>No.</u> <u>20-1</u>	<u>No.</u> <u>20-2</u>
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium Content (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.

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Item	Unit	MDL	<u>No.</u> <u>20-3</u>	<u>No.</u> <u>21</u>	<u>No.</u> <u>22</u>	<u>No.</u> <u>23</u>	
Lead Content (Pb)	ppm	2	N.D.	N.D.	N.D.	N.D.	
Cadmium Content (Cd)	ppm	2	N.D.	N.D.	N.D.	N.D.	
Mercury Content(Hg)	ppm	2	N.D.	N.D.	N.D.	N.D.	
Hexavalent Chromium Content [Cr(VI)]	ppm	2	Negative	Negative	N.D.	N.D.	
Flame Retardants							
Polybrominated biphenyls (PBBs)	ppm	5	N.A.	N.A.	N.D.	N.D.	
Polybrominated Diphenylethers(PBDEs)	ppm	5	N.A.	N.A.	N.D.	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.

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SAMPLE APPEARANCE DESCRIPTION

Item No.	Part Name	Description
1	PCB	Blue PCB (mixed)
2	TIN	Silvery metal tin
3	CHIP RESISTOR	Black body w/ white printing & silvery metal edge
4	CHIP CAPACITOR	Brown body w/ silvery metal edge
5	CHIP AUDION	Black body w/ silvery metal edge
6	CHIP DIODE	Black body w/ silvery metal edge
7	CHIP INDUCTORS	Black body w/ silvery metal edge
8	CRYSTAL OSCILLATOR	Silvery metal body w/ golden metal edge
9	CHIP GLASS DIODE	Transparent glass w/ golden material w/ silvery metal edge
10	IC	---
10-1	BODY	Black body
10-2	PIN	Silvery metal pin
11	SWITCH	---
11-1	BODY	Black plastic body
11-2	PRESS-BUTTON	Black plastic press-button
11-3	COVER	Silvery metal cover
11-4	PIN	Silvery metal
12	MODULE	Black body
13	SMD LED	Transparent body w/ silvery metal edge
14	PORT	---
14-1	BODY	Golden metal ring w/ golden metal pin
14-2	BOARD	White plastic board
15	CONNECTOR	---
15-1	BLACK	Black plastic body
15-2	GREEN	Green plastic body
15-3	YELLOW	Yellow plastic body
15-4	PIN	Golden metal pin
15-5	SCREW	Silvery metal screw

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Item No.	Part Name	Description
15-6	SHEET METAL	Silvery sheet metal
16	DC 5-18V PORT	---
16-1	BODY	Black plastic body
16-2	SHEET METAL	Silvery sheet metal
16-3	PIN	Silvery metal pin
17	AMPHENOL CONNECTOR	---
17-1	BODY	Blue plastic body
17-2	COVER	Silvery metal cover
17-3	NUT	Silvery metal nut
17-4	PIN	Golden metal pin
17-5	SHEET METAL	Silvery sheet metal
18	ALUMINIUM ELECTROLYTE CAPACITOR	---
18-1	FOIL	Silver-gray metal foil
18-2	PAPER	Green plastic paper
18-3	PIN	Silvery metal pin part
18-4	RUBBER	Black rubber stopper part
18-5	SHELL	Silvery metal shell part
18-6	LIQUID	Beige liquid
18-7	SUBSTRATE	Black plastic substrate
19	INDUCTORS	---
19-1	COVER	Black magnet
19-2	COIL	Copper metal coil
19-3	PIN	Silvery metal
20	NET PORT	---
20-1	COVER	Silvery metal cover
20-2	INTERIOR	Black plastic
20-3	PIN	Golden metal pin
21	SHEET METAL	Silvery sheet metal
22	PAPER	White paper w/ black printing
23	PCB	Black PCB (mixed)

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

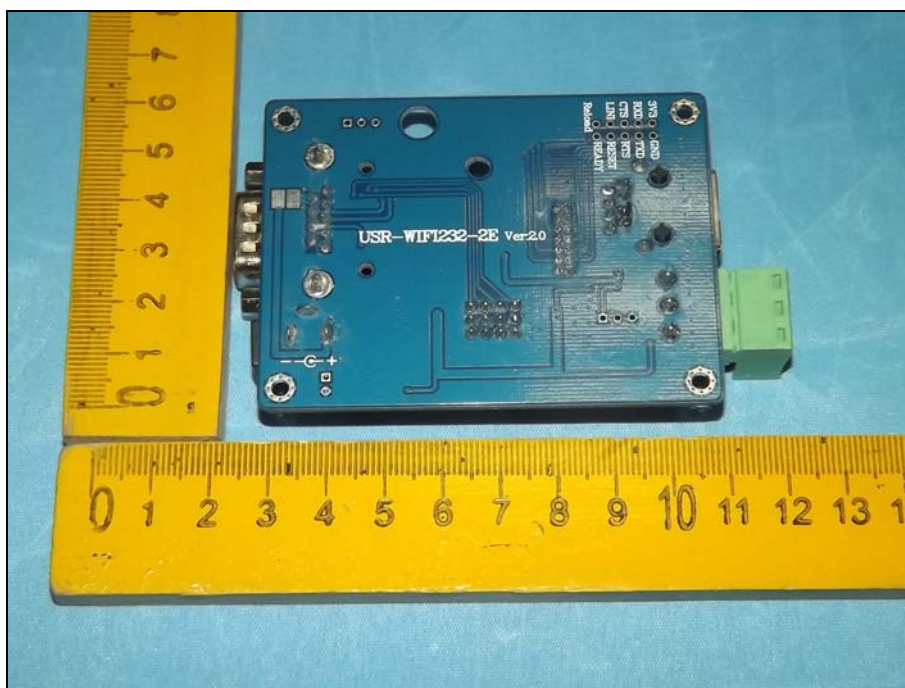
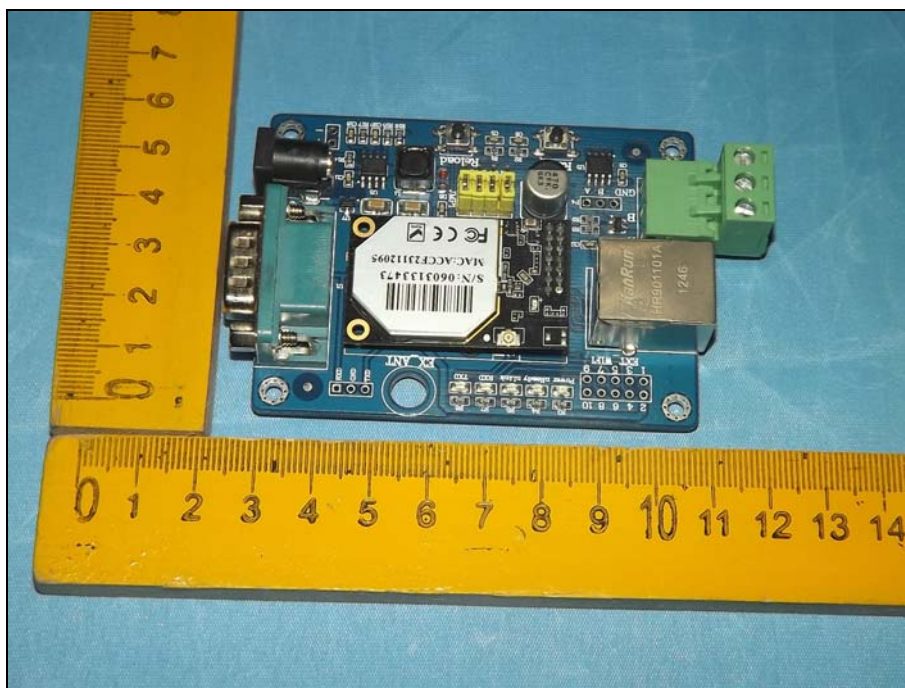
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APPENDIX A

Photograph of Sample



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