No. HX20140822S

WEEE Assessment Report

Customer information	Client	Xiamen Green Mountain Imp.& Exp. Co., Ltd.
	Address	22/F, Building 2, Thaihot Plaza XiuFeng Road, Fuzhou, Fujian, China
Sample information	Name of sample	Lithium Polymer Battery
	Type/Dimension	WT-1401-05
	Trade mark	WARMTECH
	Lot number	----
	Manufacturer	Shenzhen ZONCELL Battery Co., Ltd
	Address	B3-205, Longtengge, 319 Heping Rd., Longhua New District, Shenzhen
Test information	Sample received	August 25, 2014
	Testing date	August 25, 2014 ～September 1, 2014
	Test sort	Commission Test
	Requested/item	WEEE
	Conclusion	Please see the detecting data.
Remark	----	

Tested By: Checked By: Approved By:

Date: Sept.1, 2014 Date: Sept.1, 2014 Date: Sept.1, 2014

1. General Information

Manufacturer/Vendor	Xiamen Green Mountain Imp.& Exp. Co., Ltd.
Country of Origin	China
Product Name	Lithium Polymer Battery
Model No	WT-1401-05
Product Weight	28.60g
Product Size	54.2mm* 36.3 mm * 8.9 mm
Category under the WEEE Directive	3rd category (IT and telecommunications equipment)

2. Result of Reuse/Recycling /Recovery Assessment：

Reuse/Recycling /Recovery	Reuse/Recycling(%)	Recovery(%)
Reuse/Recycling/Recovery Targets under the 2012/19/EU WEEE Directive	65	75
Result of assessment	92	92
WEEE requirement compliance	YES	YES

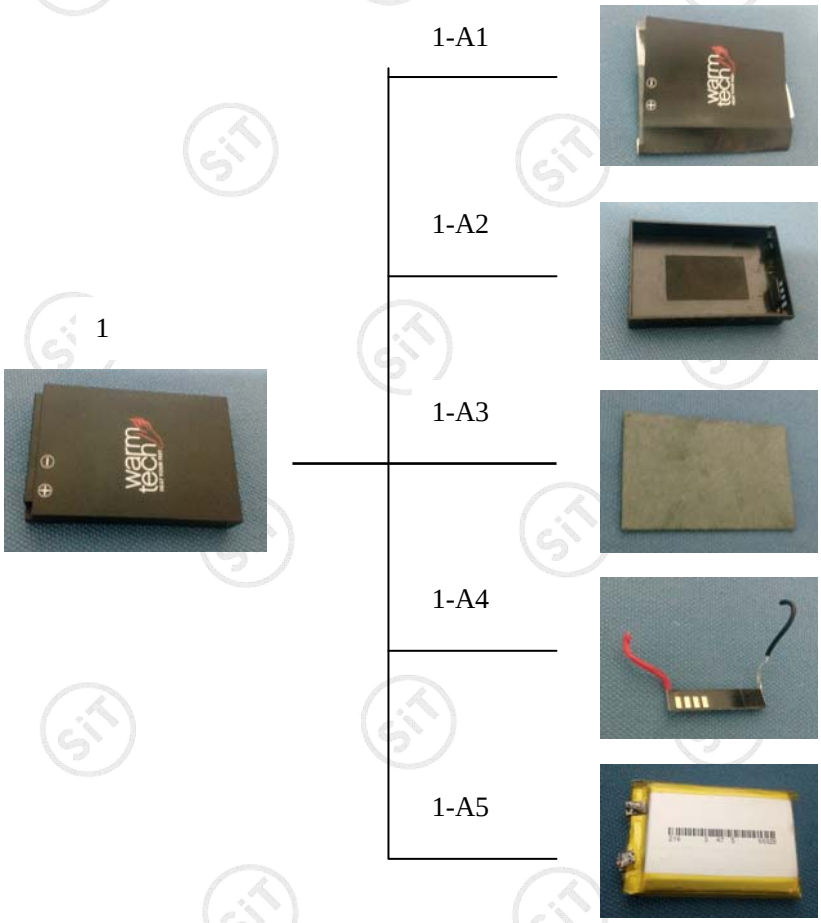
3. Appearance of the Product

4. Selective Treatment for Materials and Components

According to Articles 6(1) and the Annex II of the WEEE Directive, this product contains components and material items are described in the following table

Component/Material	Photo No.	Size & Quantity	Weight(g)
PCB	1-A4	28.3mm * 6.5 mm * 0.5 mm	0.72
Battery	1-A5	45.7 mm * 32.6 mm * 6.7 mm	22.50
Shell	“1-A1” + “1-A2” +”1-A3”	54.2mm * 36.3 mm * 8.9 mm	5.30

5. Disassembly Tree



6. Disassembly Procedure:

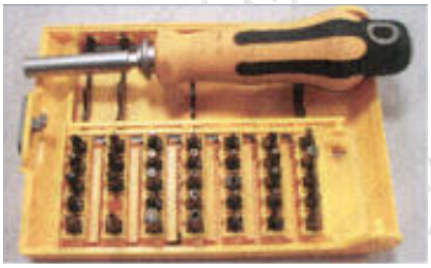
The disassembly procedure taken here is in accordance with the treatment requirements under the Annex II of the WEEE Directive. In addition, to consider economic and efficiency factors manual operation and disassembly tools have been applied to separate the components materials from this product in order to simulate the scenario at the treatment facility, and to achieve the objective that the separated components and the materials can be reused ,recycled and recovered.

6.1 Connection technique:

For this product ,the connection technology including as following : Glue

6.2 Disassembly tool:

The disassembly tool used for this product show as following:

Disassembly Tool	Pictures
Needle-nose pliers	
Flat tip screw driver	

6.3 Disassembly time:

5 Minutes By Manual Disassembly

6.4 Loss during disassembly

Product weight before disassembly: 28.60
Product weight after disassembly: 28.52
Lost rate: 0.28%

7. Material and Recycling Information

According to the information declared by the applicant company, the material and recycling information for this product is described in the following table.
The reuse, recycling and recovery assessment for this product is based upon economic and efficiency considerations, and the waste treatment technologies and equipment that are most frequently available to the market.

Photo No.	Component/Material Composition		Weight (g)	Percent Weight(%)	Reuse/ Recycling(%)	Energy Recovery(%)	Recovery (%)
“1-A1”+ “1-A2” + ”1-A3”	Shell	Plastic parts	5.30	18.53	17.25	--	17.25
1-A4	PCB	Mixed parts	0.72	2.51	2.10	--	2.10
1-A5	Battery	Mixed parts	22.50	78.67	72.8	--	72.8
Total			28.52	99.71	92.15	--	92.15

Note :
Due to their insignificant weight and the difficulty of their separation in a manual operation , sticker, solder, paint and printing materials are not included in this assessment.
Plastic containing brominated flame retardants is not assessed in the list.

8. Recycling and Recovery Rate Calculation

Reuse Recycling & Recovery Rate using in the report are calculated as following formulas:

$$\text{Reuse \& Recycling Rate} = \frac{\text{Reuse \& Recycling\& Weight}}{\text{Product Total Weight}} (\%)$$

$$\text{Recovery Rate} = \frac{\text{Reuse \& Recycling Weight + Energy Recovery Weight}}{\text{Product Total Weight}} (\%)$$

Total Weight of the product is including the main product and accessories.

9. ANNEX VII of WEEE Directive

Selective treatment for materials and components of waste electrical and electronic equipment referred to in Article 8(2)

-- mercury containing components, such as switches or backlighting lamps
-- batteries
-- printed circuit boards of mobile phones generally ,and of other devices if the surface of the printed circuit board is greater than 10 square centimeters,
-- toner cartridges, liquid and paste, as well as colour toner,
-- plastic containing brominated flame retardants,
-- asbestos waste and components which contain asbestos,
-- cathode ray tubes,
-- chlorofluorocarbons(CFC), hydrochlorocarbons(HCFC) or hydrofluorocarbons(HFC), hydrocarbons(HC),
-- gas discharge lamps ,
-- liquid crystal displays(together with their casing where appropriate) of a surface greater than 100 square centimetres and all those back-lighted with gas discharge lamps,
-- external electric cables,
-- components containing refractory ceramic fibres as described in Commission Directive 97/69/EC of December 1997 adapting to technical progress for the 23rd time Council 67/548/EEC on the approximation of the laws, regulations and administrative provisions relating to the classsification, packaging and labelling of dangerous substances,
-- components containing radioactive substances with the exception of components that are below the exception thresholds set in Article 3 of and Annex I to Council Directive 96/29/Euratom 13 May 1996 laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionizing radiation
-- electrolyte capacitors containing substances of concern (height>25mm, diameter>25mm or proportionately similar volume).

10. Recommendations for WEEE Directive Compliance

-- In order to avoid the product not meeting the reuse/recycling/recovery targets regulated under the WEEE Directive and the regulations of EU countries, the applicant company should, when selecting material and components design, consider they can be easy to reuse and recycle .This consideration will lessen the impact of the required international environmental directives and also improve the product's competitiveness.

-- It is recommended that the applicant company, when designing new product, especially where components and materials have a large weight ratio, should consider using recyclable materials in order to increase the product's reuse/recycling/recover ratio.

-- The product should apply to the ROHS Directive (Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronics equipment). The hazardous substances specification in the Directive should be controlled in the homogenous material of this product.

-- If a product has changed its product design, or materials or components employed, then the product should be reassessed and retested in accordance with the WEEE Directive for reuse/recycling/recovery assessment and ROHS for restricted/banned substances requirements.

****** End of report ******