



EMC VERIFICATION SUMMARY

Report No.: SZHH01091826-001

Toy

ITE

Others

Model: BL-81900 Additional Models: BL-81922, BL-81902 Product Description: GAIA Sample Receipt Date: 12 September 2016	Applicant: DONGGUAN LIYANG TOYS LTD Floor 3, Building 2, Daxingwei Industry Xianxi, Wusha, Changan Town, Dongguan City, Guangdong Province Test Conducted Date: 12 September 2016 to 19 September 2016		
<input checked="" type="checkbox"/> 1st TEST <input type="checkbox"/> 2nd TEST	ALL TESTS WERE CONDUCTED IN ACCORDANCE WITH: *EN 55014-1: 2006 + A1: 2009 + A2: 2011 *EN 55014-2: 1997 + A1: 2001 + A2: 2008		
Test Site and Location:	Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch 6/F., Block D, Huahan Building, Langshan Road, Nanshan District, Shenzhen, China		
Test Result	OK	Not OK	Remark (See Page 2)
*EN 55014-1: 2006 + A1: 2009 + A2: 2011	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*EN 55014-2: 1997 + A1: 2001 + A2: 2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
When determining the test conclusion, the Measurement Uncertainty of test has been considered.			

Prepared and Checked By:

Approved By:

Sign On File

**Tom Li
Engineer
Intertek**

**Jimmy Wen
Assistant Supervisor
Intertek**

Date: 19 September 2016

- This summary is part of the full report and should be read in conjunction with it.
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EMC Results Conclusion (with Justification)

RE: EMC Testing Pursuant to EMC Directive 2014/30/EU Performed On the GAIA,
Model: BL-81900

We tested the GAIA, Model: BL-81900 to determine if it was in compliance with the relevant EN standards as marked on the EMC Verification Summary. We found that the unit met the requirement of EN 55014-1, EN55014-2 standards when tested as received.

The Models: BL-81922, BL-81902 are the same as the Model: BL-81900 in hardware aspect. The difference in model number serves as marketing strategy.

The production units are required to conform to the initial sample as received when the units are placed on the market.

Remark; Standards against which no testing has been conducted of the captioned model and the engineering judgement is stated as follows:

EN 55014-2: 1997 + A1: 2001 + A2: 2008

This product not contains electronic control circuitry. It is classified to Category I of the standard and therefore deemed to fulfil the relevant immunity requirements without testing.

LABORATORY MEASUREMENTS

Configuration Information

Equipment Under Test (EUT):	GAIA
Model:	BL-81900
Serial No.:	Not Labelled
Support Equipment:	N/A
Cables & Others:	N/A
Adapter:	N/A
Rating Voltage:	DC 3.0V (2 x 1.5V AA batteries)

Applicant: DONGGUAN LIYANG TOYS LTD
Model: BL-81900
Worst Case Operating Mode: Motor

EN 55014-1 Radiated Scan

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Cal. Date	Due Date
SZ185-01	EMI Receiver	R & S	ESCI	23-Jan-16	23-Jan-17
SZ061-12	Biconilog Antenna	ETS	3142E	09-Sep-16	09-Sep-17
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	16-Apr-16	16-Apr-18

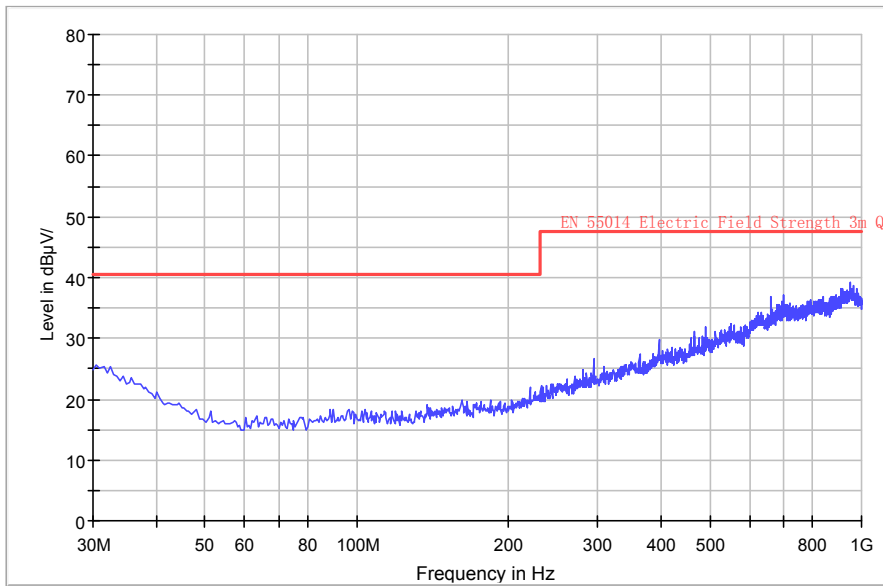
- Notes:
1. Peak detector quick scan is showed on the graph and final quasi-peak detector data is measured corresponding to relevant limit and recorded in the data table.
 2. Frequency range scanned: 30MHz to 1000MHz.
 3. Only emissions significantly above equipment noise floor are reported.
 4. Uncertainty: ± 4.8 dB at a level of confidence of 95%.

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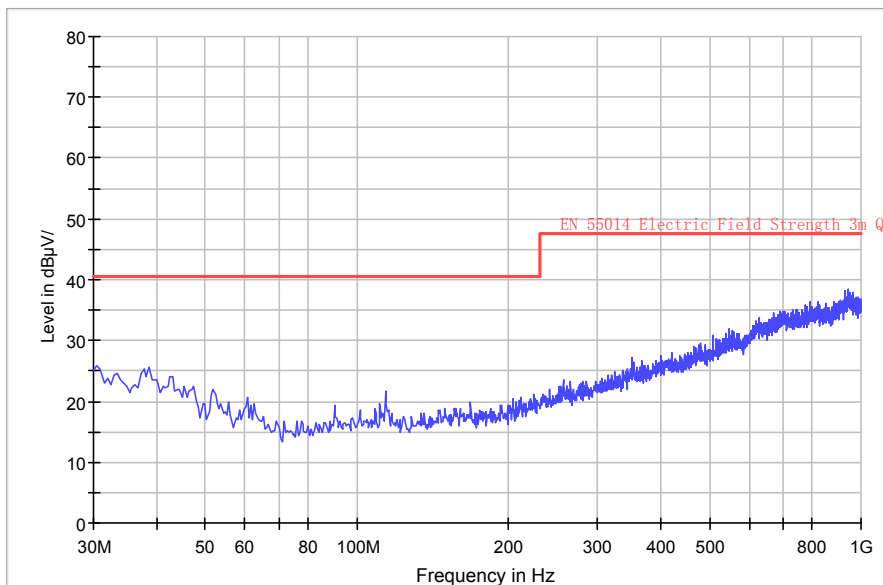
Graphic

Radiated Emissions Pursuant to EN55014-1: Emissions Requirement

Horizontal



Vertical



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Data Table

Radiated Emissions Pursuant to EN55014-1: Emissions Requirement

Polarization	Frequency (MHz)	Net at 3m (dB μ V/m)	Calculated Net at 10m (dB μ V/m)	Limit at 10m (dB μ V/m)	Margin (dB)
/	/	/	/	/	/

No emissions significantly above equipment noise floor.

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Model: BL-81900

External Photo



Applicant: DONGGUAN LIYANG TOYS LTD
Model: BL-81900

Internal Photo



Applicant: DONGGUAN LIYANG TOYS LTD
Model: BL-81900

Internal Photo



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