



中国认可  
国际互认  
检测  
TESTING  
CNAS L1114

# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80891571  
DATE: July 15, 2016

Attn: Kelly Xiong

Sample Description: LED Light Box

Quantity Submitted: 1 piece  
Supplier: Carpenters Manufactory Limited  
Buyer: Not provided  
Style/Item No.: ME04062  
P.O. No.: Not provided  
Labeled Age Grading: Ages 3+  
Destination: Global  
Country of Origin: China  
Date(s) of samples received: August 17, 2015

**TEST METHOD & RESULTS:** Please refer to next page(s)

**CONCLUSION:** Please refer to page two(2)

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## CONCLUSION:

### USA:

ASTM F963-11 Physical & Mechanical Requirements	PASS
16 CFR 1500 Physical & Mechanical Requirements	PASS
FCC Part 15: 2015 subpart B, Class B & FCC /ANSI C63.4-2014	PASS
ASTM F963-11 Flammability Requirements	PASS
16 CFR 1500.3 (c) (6) (vi) / 16 CFR 1500.44 Flammability Requirements	PASS
ASTM F963-11 Clause 4.3.5.1 (2) Elements Migration in Surface Coating	PASS <sup>#2, 4</sup>
ASTM F963-11 Clause 4.3.5.2 (2) (b) Elements Migration in Substrate	PASS <sup>#6</sup>
ASTM F963-11 Clause 4.3.5.1 (1) Total Lead in Surface Coating	PASS <sup>#3, 5</sup>
16 CFR 1303 Total Lead Content Requirements	PASS <sup>#3, 5</sup>
Consumer Product Safety Improvement Act of 2008 Total Lead Content Requirement [Paint or Surface Coating]	PASS <sup>#3, 5</sup>
ASTM F963-11 Clause 4.3.5.2 (2) (a) Total Lead in Substrate	PASS
Consumer Product Safety Improvement Act of 2008 Total Lead Content Requirement [Substrate Materials]	PASS
ASTM F963-11 Clause 4.3.5.2 (2) (c) Soluble Cadmium in Metallic Small Part	NOT APPLICABLE <sup>#1</sup>
Consumer Product Safety Improvement Act of 2008 Total Phthalate Requirement	PASS <sup>#3, 5</sup>

### CANADA:

Canada Toys Regulations SOR/2011-17 Physical and Mechanical Requirements	PASS
ICES (Interference – Causing Equipment Standards)-003:Issue 6	PASS
Canada Toys Regulations SOR/2011-17 Flammability Requirements (Cellulose Nitrate and Celluloid)	PASS
Canada Toys Regulations SOR/2011-17 Heavy Metal Content Requirements	PASS <sup>#3, 5</sup>
Canada Consumer Products Containing Lead (Contact mouth) Regulation	NOT APPLICABLE <sup>#1</sup>
Canada Phthalates Regulation SOR/2010-298 Phthalates Content Requirements	PASS <sup>#3, 5</sup>

### AU:

AS/NZS ISO 8124.1:2013 Physical & Mechanical Requirements	PASS
AS/NZS ISO 8124.2:2009 Flammability Requirements	PASS
AS/NZS ISO 8124.3:2012 Migration of Certain Elements	PASS <sup>#2,4, 6</sup>
DEHP requirement per Australia Government	NOT APPLICABLE <sup>#1</sup>

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DATE: July 15, 2016

**EU:**

EN 71-1:2014 Mechanical & Physical Properties	PASS
As specified by client, Test for compliance with clause 5 of EN 60825-1: 2014	Class 1
EN62115:2005+A12:2015 (Electric toys –Safety)	<b>FAIL</b>
Marking of electrical and electronic equipment in accordance with Article 11(2) of Directive 2002/96/EC (WEEE) BS EN 50419:2006	<b>FAIL</b>
EN 71-2:2011 + A1:2014 Flammability	PASS
EN 71-3:2013+A1:2014 Migration of Certain Elements	PASS <sup>#2,4, 6</sup>
Total Cadmium Content and European Reach Regulation Annex XVII	PASS <sup>#2, 4</sup>
Total Phthalate Content European Reach Regulation Annex XVII	PASS <sup>#2, 4</sup>
Azo Dyes Test and European Reach Regulation Annex XVII	NOT APPLICABLE <sup>#1</sup>

- #1: There is no component on the submitted test samples under the testing scopes.
- #2: As claimed by client, the sample 2 listed in the report is identical with the one in report C80861489. The test data of sample 2 in the report was referred from report C80861489 issued on November 20, 2014.
- #3: As claimed by client, the sample 2 listed in the report is identical with the one in report C80861485. The test data of sample 2 in the report was referred from report C80861485 issued on November 20, 2014.
- #4: As claimed by client, the sample 3, 4 and 5 listed in the report is identical with the one in report C80781475. The test data of sample 3, 4 and 5 in the report was referred from report C80781475 issued on November 6, 2014.
- #5: As claimed by client, the sample 3, 4 and 5 listed in the report is identical with the one in report C80781476. The test data of sample 3, 4 and 5 in the report was referred from report C80781476 issued on December 23, 2014.
- #6: As claimed by client, the sample 6 listed in the report is identical with the one in report C80181516. The test data of sample 6 in the report was referred from report C80181516 issued on March 31, 2015.



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REPORT NO: C80891571  
DATE: July 15, 2016

For and on behalf of :  
UL VS Shanghai Limited Shenzhen Branch

Benson Ye  
Technical Manager –  
Toys Department

Ms. Carol Ke  
Laboratory manager-  
Chemical Department

**Important Notes :**

The results only relate to the samples tested.

**The below tests are except from the ILAC-MRA/CNAS accreditation scope:**

1. FCC Part 15: 2015 subpart B, Class B & FCC / ANSI C63.4-2014
2. ANSI C63.4-2014 ICES (Interference – Causing Equipment Standards)-003:Issue 6
3. EN62115:2005+A12:2015 (Electric toys –Safety)
4. Marking of electrical and electronic equipment in accordance with Article 11(2) of Directive 2002/96/EC (WEEE) BS EN 50419:2006
5. As specified by client, Test for compliance with clause 5 of EN 60825-1: 2014

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## TEST RESULTS

### 1. USA

#### 1.1 MECHANICAL AND PHYSICAL TEST

##### 1.1.1 AS PER ASTM STANDARD CONSUMER SAFETY SPECIFICATION FOR TOYS SAFETY F963-11

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+  
Samples Quantity : 1 style(s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material(visual check on cleanness)	P
4.7	Accessible Edges	P
4.9	Accessible Points	P
4.11	Nails And Fasteners	P
5	Safety Labeling Requirements	P
6	Instructional Literature	P
7	Producer's Markings	P

Remark: P = Pass

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## TEST RESULTS

### 1.1.2 AS PER 16 CFR 1500.50, THE HAZARDS OF SHARP POINTS, SHARP EDGE AND SMALL PARTS ARE ASSESSED BOTH BEFORE AND AFTER APPLICABLE USE AND ABUSE \ TESTS:

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+  
Samples Quantity : 1 style(s) x 1 piece(s)

	<u>TEST ITEMS</u>	<u>SHARP POINT</u> (1500.48)	<u>SHARP EDGE</u> (1500.49)
	As received	P	P
1500.53	Impact Test	P	P
1500.53	Torque Test	P	P
1500.53	Tension Test	P	P
1500.53	Compression	P	P

Remark: P = Pass

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## TEST RESULTS

### 3. MEASURING DEVICE AND TEST EQUIPMENT

#### 3.1. For Power Line Conducted Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCI	26115-010-002 7	May 16, 2015	1 Year
2.	L.I.S.N.	Rohde & Schwarz	ENV216	101161	May 16, 2015	1 Year
3.	50Ω Coaxial Switch	Anritsu	MP59B	6100175589	May 17, 2015	1 Year
4.	Voltage Probe	Rohde & Schwarz	ESH2-Z3	100122	May 17, 2015	1 Year

#### 3.2. For Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	May 16, 2015	1 Year
2.	Pre-Amplifier	HP	8447F	2944A07999	May 16, 2015	1 Year
3.	Bilog Antenna	Schwarzbeck	VULB9163	142	May 16, 2015	1 Year
4.	Cable	Schwarzbeck	AK9513	ACRX1	May 16, 2015	1 Year
5.	Cable	Rosenberger	N/A	FP2RX2	May 16, 2015	1 Year
6.	Cable	Schwarzbeck	AK9513	CRPX1	May 16, 2015	1 Year
7.	Cable	Schwarzbeck	AK9513	CRRX2	May 16, 2015	1 Year

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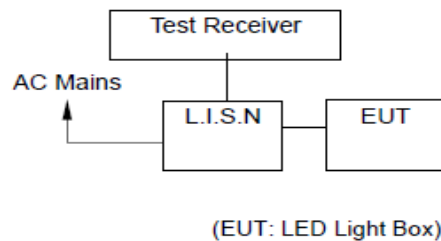
CLIENT: Carpenters Manufactory Limited  
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## TEST RESULTS

### 4. POWER LINE CONDUCTED EMISSION MEASUREMENT

#### 4.1. Block Diagram of Test Setup



#### 4.2. Measuring Standard

FCC Part 15, Subpart B, Class BANSI C63.4-2014

#### 4.3. Power Line Conducted Emission Limits (Class B)

Frequency (MHz)	Limit (dB $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

NOTE1-The lower limit shall apply at the transition frequencies.  
NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

#### 4.4. EUT Configuration on Measurement

The following equipments are installed on Conducted Emission Measurement to meet FCC requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

EUT : LED Light Box  
Model Number : ME04062

#### 4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT as shown on Section 4.1.
- 4.5.2. Turn on the power of all equipments.
- 4.5.3. Let the EUT work in measuring mode (ON) and measure it.

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## TEST RESULTS

### 4.6. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and connected to the AC mains through Line Impedance Stability Network (L.I.S.N). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are investigated to find out the maximum conducted emission according to the FCC regulations during conducted emission measurement.

The bandwidth of the field strength meter (R&S Test Receiver ESCS30) is set at 9kHz in 150kHz~30MHz and 200Hz in 9kHz~150kHz.

The frequency range from 150kHz to 30MHz is investigated.

All the data are attached the following pages.

### 4.7. Measuring Results

**PASS.**

Please refer to the following pages.

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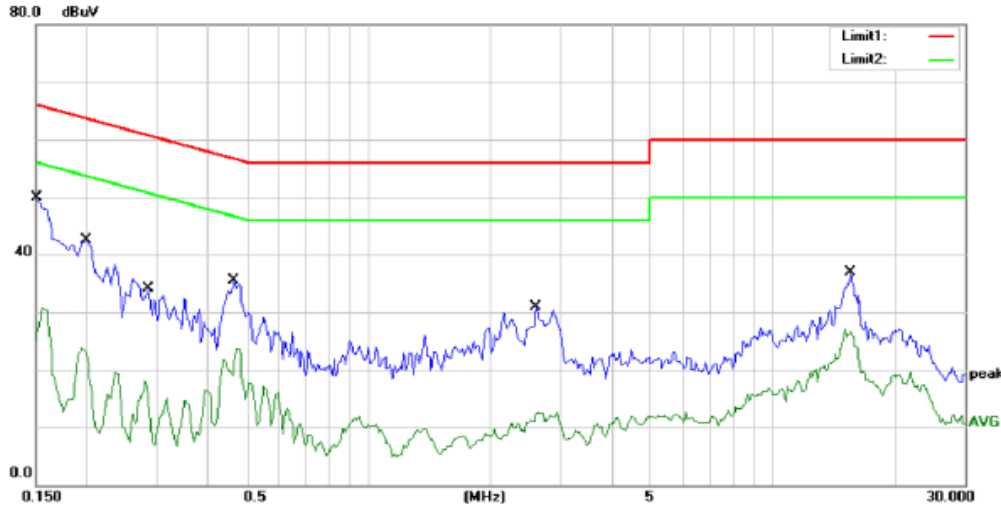
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## TEST RESULTS



Site Conduction #1 Phase: L1 Temperature: 22  
Limit: (CE)FCC PART 15 class B\_QP Power: AC 120V/60Hz Humidity: 55 %  
Mode: On  
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1500	49.99	0.00	49.99	66.00	-16.01	QP	
2		0.1500	30.73	0.00	30.73	56.00	-25.27	AVG	
3		0.2000	42.42	0.00	42.42	63.61	-21.19	QP	
4		0.2000	23.82	0.00	23.82	53.61	-29.79	AVG	
5		0.2850	34.14	0.00	34.14	60.67	-26.53	QP	
6		0.2850	18.11	0.00	18.11	50.67	-32.56	AVG	
7		0.4650	35.51	0.00	35.51	56.60	-21.09	QP	
8		0.4650	23.68	0.00	23.68	46.60	-22.92	AVG	
9		2.5950	30.92	0.00	30.92	56.00	-25.08	QP	
10		2.5950	12.71	0.00	12.71	46.00	-33.29	AVG	
11		15.6500	36.87	0.00	36.87	60.00	-23.13	QP	
12		15.6500	27.03	0.00	27.03	50.00	-22.97	AVG	

\*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: WQG

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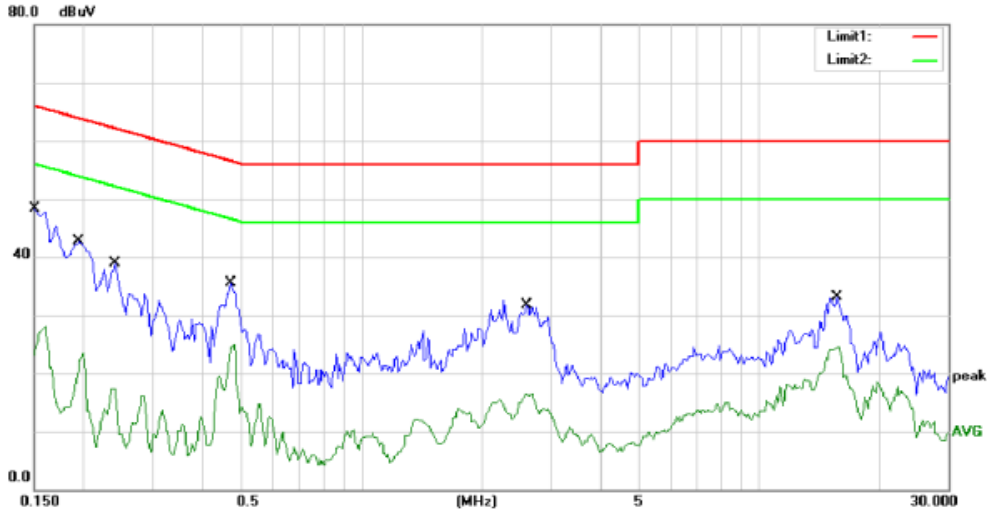
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## TEST RESULTS



Site Conduction #1 Phase: **N** Temperature: 22  
Limit: (CE)FCC PART 15 class B\_QP Power: AC 120V/60Hz Humidity: 55 %  
Mode: On  
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	48.23	0.00	48.23	66.00	-17.77	QP	
2		0.1500	28.07	0.00	28.07	56.00	-27.93	AVG	
3		0.1950	42.66	0.00	42.66	63.82	-21.16	QP	
4		0.1950	23.43	0.00	23.43	53.82	-30.39	AVG	
5		0.2400	38.92	0.00	38.92	62.10	-23.18	QP	
6		0.2400	17.31	0.00	17.31	52.10	-34.79	AVG	
7		0.4700	35.41	0.00	35.41	56.51	-21.10	QP	
8		0.4700	24.86	0.00	24.86	46.51	-21.65	AVG	
9		2.6050	31.65	0.00	31.65	56.00	-24.35	QP	
10		2.6050	16.50	0.00	16.50	46.00	-29.50	AVG	
11		15.7750	33.01	0.00	33.01	60.00	-26.99	QP	
12		15.7750	24.45	0.00	24.45	50.00	-25.55	AVG	

\*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator: WQG

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

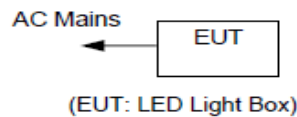
REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

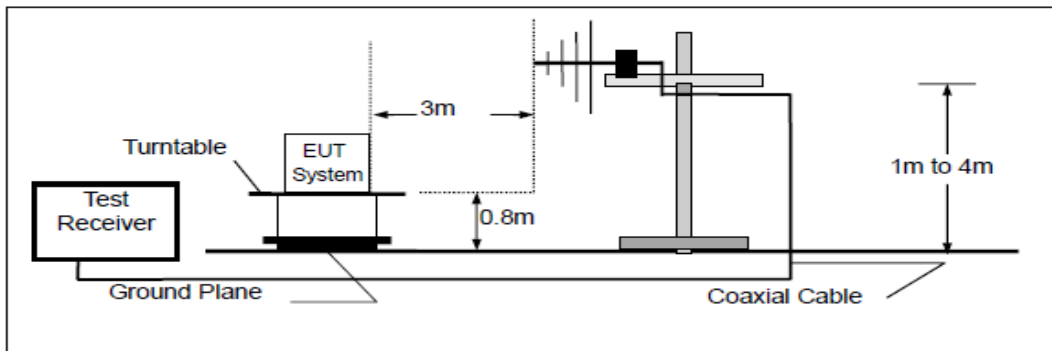
### 5. RADIATED EMISSION MEASUREMENT

#### 5.1. Block Diagram of Test Setup

##### 5.1.1. Block diagram of EUT System



##### 5.1.2. Block diagram of test setup (In chamber)



(EUT: LED Light Box)

#### 5.2. Measuring Standard

FCC Part 15, Subpart B, Class B ANSI C63.4-2014

#### 5.3. Radiated Emission Limits (Class B)

Frequency MHz	Distance Meters	Field Strengths Limit	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0

Remark: (1) Emission level  $(\text{dB})\mu\text{V} = 20 \log$  Emission level  $\mu\text{V}/\text{m}$   
(2) The smaller limit shall apply at the cross point between two frequency bands.  
(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 5.4. EUT Configuration on Measurement

The FCC Class B regulations test method must be used to find the maximum emission during radiated emission measurement.

EUT : LED Light Box  
Model Number : ME04062

### 5.5. Operating Condition of EUT

- 5.5.1. Setup the EUT as shown on Section 5.1.
- 5.5.2. Turn on the power of all equipments.
- 5.5.3. Let the EUT work in measuring mode (ON) and measure it.

### 5.6. Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on an antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Bilog antenna (calibrated by Dipole Antenna) is used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the Receiver (ESU26) is set at 120kHz.

All the modes are tested, and the worst scanning curves of the mode (ON) are attached in the following pages.

### 5.7. Measuring Results

**PASS.**

The frequency range from 30MHz to 1000MHz is investigated.

Please refer to the following pages.

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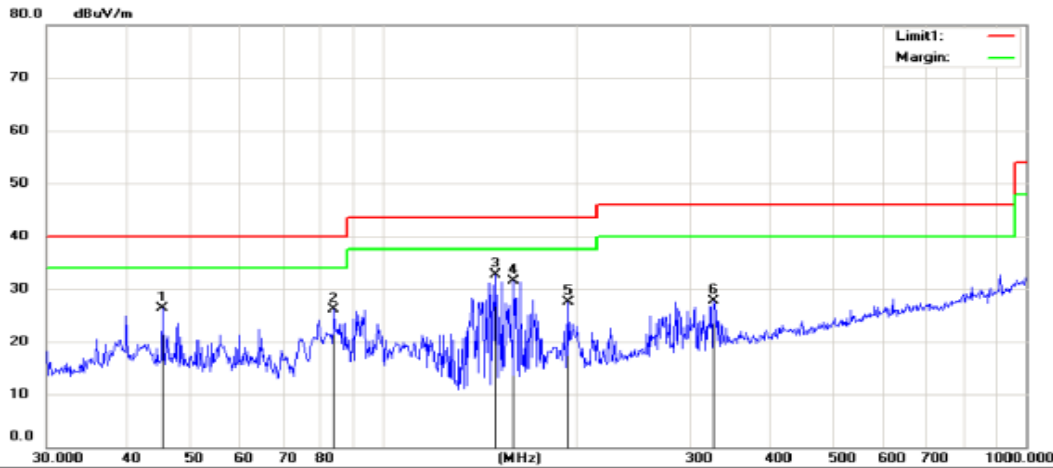
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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS



Site 3m Chamber #1 Polarization: **Horizontal** Temperature: 22 C  
Limit: (RE)FCC PART 15 CLASS B Power: AC 120V/60Hz Humidity: 50 %  
Mode: ON  
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		45.3755	38.69	-12.45	26.24	40.00	-13.76	QP		
2		83.8156	41.84	-15.75	26.09	40.00	-13.91	QP		
3	*	149.4857	49.01	-16.24	32.77	43.50	-10.73	QP		
4		159.7844	47.11	-15.54	31.57	43.50	-11.93	QP		
5		194.4534	40.71	-13.25	27.46	43.50	-16.04	QP		
6		325.5958	36.41	-8.76	27.65	46.00	-18.35	QP		

\*:Maximum data x:Over limit !:over margin

Operator: KK

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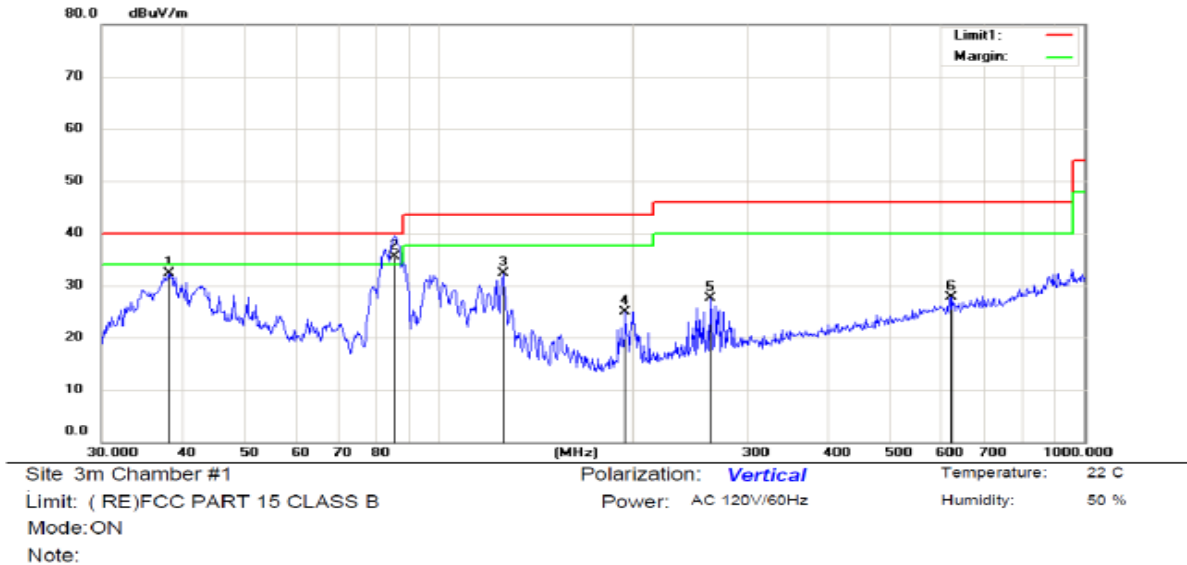
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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		38.0782	44.85	-12.61	32.24	40.00	-7.76	QP		
2	*	85.2980	50.81	-15.21	35.60	40.00	-4.40	QP		
3		125.4457	48.03	-15.68	32.35	43.50	-11.15	QP		
4		194.4534	38.16	-13.25	24.91	43.50	-18.59	QP		
5		262.8955	37.80	-10.28	27.52	46.00	-18.48	QP		
6		620.7096	31.12	-3.35	27.77	46.00	-18.23	QP		

\*:Maximum data    x:Over limit    l:over margin

Operator: KK

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# TEST REPORT

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REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 6. PHOTOGRAPHS

#### 6.1. Photos of Conducted Emission Measurement



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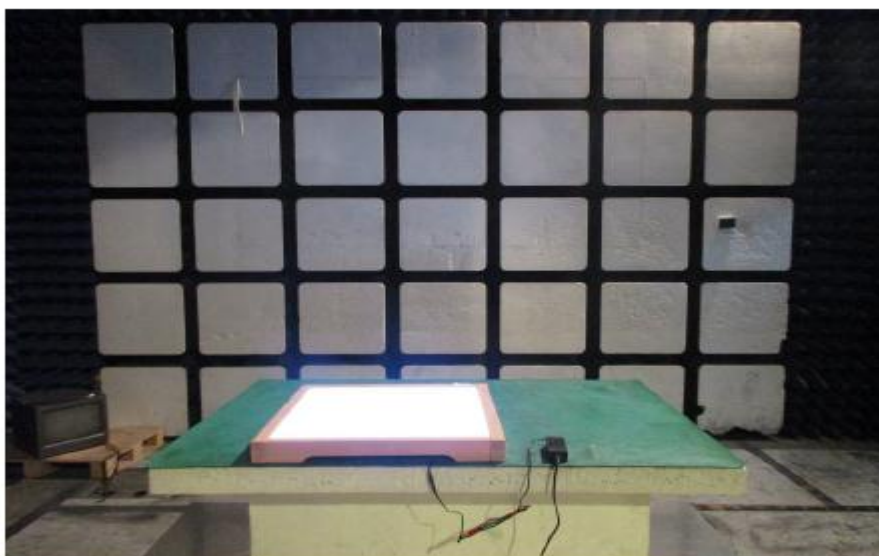
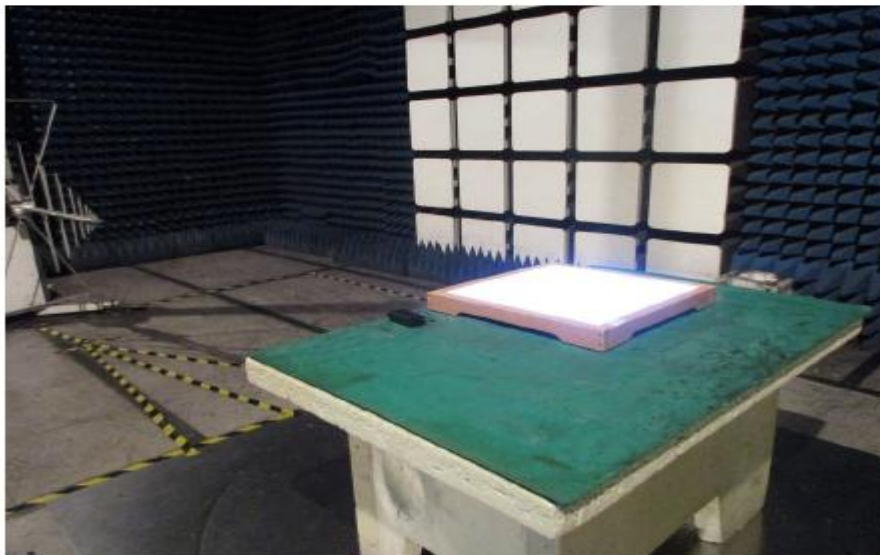
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ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

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## TEST RESULTS

### 6.2. Photos of Radiation Emission Measurement



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# TEST REPORT

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ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80891571  
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## TEST RESULTS

### APPENDIX (Photos of EUT)



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REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 1.2 FLAMMABILITY TEST

#### 1.2.1 AS ASTM STANDARD ON SAFETY OF TOYS F963-11 ANNEX A5:

Samples Quantity: 1 style(s) x 1 piece(s)  
Requirement: Burning rate should not exceed 0.1 inch per second along the major axis.  
Results: The sample was tested to be ignited but extinguished.

#### 1.2.2 AS PER U.S. CODE OF FEDERAL REGULATIONS TITLE 16 PART 1500.44 FOR RIGID AND PLIABLE SOLIDS DEFINED UNDER 16 CFR 1500.3 SECTION (C) (6) (VD):

Samples Quantity: 1 style(s) x 1 piece(s)  
Requirement: Burning rate should not exceed 0.1 inch per second along the major axis.  
Results: The sample was tested to be ignited but extinguished.

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 1.3 CHEMICAL TESTS:

#### 1.3.1 SOLUBLE ELEMENT MIGRATION IN SURFACE COATING

Requirement: As per ASTM F963-11 Clause 4.3.5.1 (2) requirement, materials under test shall not exceed below limit.

Test method: Reference to ASTM F963-11 Clause 8.3, used acid extraction and analyzed by Inductively Coupled Argon Plasma Spectrometry.

Results:

Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 2	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 3	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 4	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 5	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0

Remark:

- All concentrations expressed in milligrams per kilogram
- "<" means "less than"

#### 1.3.2 SOLUBLE ELEMENT MIGRATION IN SUBSTRATES

Requirement: As per ASTM F963-11 Clause 4.3.5.2 (2) (b) requirement, materials under test shall not exceed below limit.

Test method: Reference to ASTM F963-11 Clause 8.3, used acid extraction and analyzed by Inductively Coupled Argon Plasma Spectrometry.

Results:

Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 6	<6.0	<2.5	6.5	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 7	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 9	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0

Remark:

- All concentrations expressed in milligrams per kilogram
- "<" means "less than"

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 1.3.3 TOTAL LEAD CONTENT TEST: COATING

Requirement: As per ASTM F963-11 Clause 4.3.5.1 (1) requirement, lead content in the materials under test shall not exceed of 90ppm.

Test method: CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

Results :

	<u>Sample 2</u>	<u>Sample 3</u>	<u>Sample 4</u>	<u>Sample 5</u>
Total Lead	<10.0	<10.0	<10.0	<10.0

All concentrations expressed in milligrams per kilogram  
“<” means “less than”

### 1.3.4 TOTAL LEAD CONTENT TEST:

Criteria: The submitted samples must meet the Total Lead Limit of 90ppm as stated in 16 CFR 1303

Test method: CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

Results:

	<u>Sample 2</u>	<u>Sample 3</u>	<u>Sample 4</u>	<u>Sample 5</u>
Total Lead	<10.0	<10.0	<10.0	<10.0

All concentrations expressed in milligrams per kilogram  
“<” means “less than”

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CNAS L1114

# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 1.3.5 TOTAL LEAD CONTENT TEST: COATING

Requirement : The submitted samples must meet the Total Lead Limit of 90ppm as per Consumer Product Safety Improvement Act of 2008

Test method: CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

Results:

	<u>Sample 2</u>	<u>Sample 3</u>	<u>Sample 4</u>	<u>Sample 5</u>
Total Lead	<10.0	<10.0	<10.0	<10.0

All concentrations expressed in milligrams per kilogram  
“<” means “less than”

### 1.3.6 TOTAL LEAD CONTENT TEST: SUBSTRATE

Requirement: As per ASTM F963-11 Clause 4.3.5.2 (2) (a) requirement, lead content in the materials under test shall not exceed of 100ppm.

Test method: CPSC-CH-E1001-8.3 Standard operating procedure for determining total Lead (Pb) in metal;  
CPSC-CH-E1002-8.3 Standard operating procedure for determining total Lead (Pb) in non-metal

Results:

	<u>Sample 1</u>	<u>Sample 7/9</u>	<u>Sample 8</u>
Total Lead	<10.0	<10.0	<10.0

All concentrations expressed in milligrams per kilogram  
"<" means "less than"

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 1.3.7 TOTAL LEAD CONTENT TEST: SUBSTRATE

Requirement: The submitted samples must meet the Total Lead Limit of 100ppm as per Consumer Product Safety Improvement Act of 2008

Test method: CPSC-CH-E1001-8.3 Standard operating procedure for determining total Lead (Pb) in metal children's product (including children's metal jewelry);  
CPSC-CH-E1002-8.3 Standard operating procedure for determining total Lead (Pb) in non-metal children's products.

Results:

	<u>Sample 1</u>	<u>Sample 7/9</u>	<u>Sample 8</u>
Total Lead	<10.0	<10.0	<10.0

All concentrations expressed in milligrams per kilogram  
"<" means "less than"

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China  
REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 1.3.8 TOTAL PHTHALATE TEST

Requirement : DEHP, DBP or BBP content shall not be more than 0.1% by weight in toys and childcare article.  
DINP, DIDP or DNOP content shall not be more than 0.1% by weight in toys and childcare article which can be placed in the mouth by children.

Test Method : CPSC-CH-C1001-09.3, Standard operating procedure for determination of phthalates.

Results :

Sample ID	<u>Plasticiser Values (w/w)</u>					
	DBP	BBP	DEHP	DNOP	DINP	DIDP
Sample 2	ND	ND	ND	ND	ND	ND
Sample 3	ND	ND	ND	ND	ND	ND
Sample 4	ND	ND	ND	ND	ND	ND
Sample 5	ND	ND	ND	ND	ND	ND
Sample 9	ND	ND	ND	ND	ND	ND

Remarks: 1) Detection Limit for each phthalate = 0.005%  
2) ND= not detected

Key : DBP = Di-butyl phthalate  
BBP = Benzyl butyl phthalate  
DIDP = Di-“isodecyl” phthalate  
DEHP = Di (2-Ethylhexyl) phthalate  
DINP = Di-“isonomy” phthalate  
DNOP = Di -n-octal phthalate

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 2. CANADA

#### 2.1 MECHANICAL AND PHYSICAL TEST

##### AS PER CANADA TOYS REGULATIONS, SOR/2011-17

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+  
Samples Quantity : 1 style(s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
8	Exposed Metal Edges	P
9	Ends	P
10	Exposed Plastic Parts	P
11	Exposed Wooden Surfaces, Edges And Corners	P
13	Fasteners	P

Remark: P = Pass

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 2.2 FLAMMABILITY TEST

#### AS PER CANADA TOYS REGULATIONS SOR/2011-17 SECTION 21 (CELLULOSE NITRATE AND CELLULOID)

Requirement: Celluloid (cellulose nitrate) and materials with the same behaviour in fire (except when used in varnish or paint) shall not be used in the manufacture of toys.

Results: The submitted sample(s) complied with this requirement.

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China  
REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 2.3 CHEMICAL TESTS:

#### 2.3.1 HEAVY METAL CONTENT TEST :CANADA TOYS REGULATION SOR/2011-17

Requirement : Surface coating applied to Toys shall comply with heavy metal requirement as below table.

Results:

Elements	Total Lead	Total Mercury	Soluble Antimony	Soluble Arsenic	Soluble Barium	Soluble Cadmium	Soluble Selenium
Limits	< 90	None	< 1000	< 1000	< 1000	< 1000	< 1000
Sample 2	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 3	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 4	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 5	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0

All concentrations expressed in milligrams per kilogram

“<” means “less than”

“N/D” means “None Detected”

\*\*Detection Limit is 10.0 milligrams per kilogram.

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 2.3.3 TOTAL PHTHALATE TEST: CLIENT'S REQUIREMENT WITH REFERENCE TO CANADA PHTHALATES REGULATION SOR/2010-298

Requirement : The vinyl in a toy or childcare article must contain not more than 1,000 mg/kg of DEHP, DBP, or BBP.  
The vinyl in any part of a toy or childcare article that can, in a reasonably foreseeable manner, be placed in the mouth of a child under four years of age must contain not more than 1,000 mg/kg of DINP, DIDP, or DNOP.

Method : C-34  
Results :

Sample ID	Plasticiser Values (w/w)					
	DBP	BBP	DEHP	DNOP	DINP	DIDP
Sample 2	ND	ND	ND	ND	ND	ND
Sample 3	ND	ND	ND	ND	ND	ND
Sample 4	ND	ND	ND	ND	ND	ND
Sample 5	ND	ND	ND	ND	ND	ND
Sample 9	ND	ND	ND	ND	ND	ND

Remarks: 1) Detection Limit for each phthalate = 0.005%  
2) ND= not detected

Key : DBP = Dibutyl Phthalate DEHP = Di (2-Ethylhexyl) Phthalate  
BBP = Benzyl butyl Phthalate DINP = Di-"isononyl" phthalate  
DIDP = Di-"isodecyl" phthalate DNOP = Di -n-octyl phthalate

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 3. AUSTRALIA

#### 3.1 MECHANICAL AND PHYSICAL TEST

**AS PER INTERNATIONAL STANDARD ON SAFETY OF TOYS AS/NZS ISO 8124.1:2013 SAFETY ASPECTS RELATED TO MECHANICAL AND PHYSICAL PROPERTIES.**

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+  
Samples Quantity : 1 style(s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Normal use	P
4.2	Reasonably foreseeable abuse	P
4.3	Material	P
4.6	Edges	P
4.7	Points	P
ANNEX B	Safety labelling guidelines and manufacturer's markings	P

Remark: P = Pass

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 3.2 FLAMMABILITY TEST

#### AS PER AUSTRALIAN/NEW ZEALAND STANDARD ON SAFETY OF TOYS AS/NZS ISO 8124.2:2009 CLAUSE 4.1 GENERAL REQUIREMENT (CELLULOSE NITRATE):

Requirement: Celluloid (cellulose nitrate) and materials with the same behaviour in fire (except when used in varnish or paint) shall not be used in the manufacture of toys.

Results: The submitted sample(s) complied with this requirement.

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China  
REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 3.3 CHEMICAL TESTS:

#### 3.3.1 MIGRATION OF CERTAIN ELEMENTS : AZ/NZS ISO 8124.3:2012

Results:

Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 2	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 3	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 4	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 5	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 6	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 7	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 9	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0

#### Remark:

1. Method for determination of each soluble element present
  - a) Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury and Selenium are determined by Inductively Coupled Plasma Optical Emission Spectroscopy.

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 4. EU

#### 4.1 MECHANICAL AND PHYSICAL TEST

#### AS PER EUROPEAN STANDARDS ON SAFETY OF TOYS EN 71-1: 2014

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+  
Samples Quantity : 1 style(s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material Cleanliness	P
4.7	Edges	P
4.8	Points And Metallic Wires	P

Remark: P = Pass

Warnings and safety instructions shall be written in the languages easily understood by consumers of the country in which the toy is to be sold. Only English version was reviewed.

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CNAS L1114

# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 4.2 EN 60825-1: 2014

Clause	Title / Description	Result
5	Determination of the accessible emission level and product classification	Complied

#### Conclusion:

The measured emission level of the apparatus did not exceed the accessible emission level of class 1 according to EN 60825-1: 2014

#### Remark:

1. When determining the conclusion. The measurement uncertainty of test has been considered.
2. The requirement of the French regulation published on 11<sup>th</sup> Mar 2008 for Laser product was included in this test report.
3. This report applies only to specific tests carried out as details in the report.
4. This test report is issued to Company indicated based on the request of Applicant of the product mentioned in this report.
5. The test results presented in this report relate only to the test sample.

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
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REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### Table of measuring data

#### A. Test condition: Normal operation

The location of laser source	Measured wavelength	Measuring condition	Measured value (Max)	Limit for class 1
Inside the product	446nm	3	0.025mW	0.039mW

#### The photo of the sample



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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
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REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 4.3 EN 62115: 2005 + A12:2015 (Electric Toys-Safety)

<u>Clause no.</u>	<u>Test Description</u>	<u>Result</u>
1	Scope	--
2	Normative references	--
3	Definitions	--
4	General requirement	Pass
5	General conditions for the tests	--
6	Criteria for reduced testing	--
7	Marking and instructions	<b>Fail</b> (Refer to fail memo)
8	Power input	Pass
9	Heating and abnormal operation	Pass
10	Electric strength at operating temperature	Pass
11	Moisture resistance	Pass
12	Electric strength at room temperature	Pass
13	Mechanical strength	Pass
14	Construction	Pass
15	Protection of cords and wires	Pass
16	Components	<b>Fail</b> (Refer to fail memo)
17	Screws and connections	Pass
18	Creepage distances and clearances	Pass
19	Resistance to heat and fire	Pass
20	Radiation, toxicity and similar hazards	Refer to relative test report
Annex E	Toys incorporating lasers and light-emitting diodes	Pass

### Remarks:

- Age grade for testing requirement is 3+.
- Only English was checked on the packaging.

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
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REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### FAIL MEMO:

EN62115: 2005+A12:2015

1, The following information was missing: (The marking of rated voltage and the symbol for a.c. or d.c. shall be placed adjacent to the terminals.)

- their rated voltage, in volts;
- the symbol for d.c or a.c, as applicable;
- their rated power input, in watts or VA, if applicable;
- the symbol for transformer for toy and also on the packaging.

A, The following information shall be marked on packing or instructions.( When are on the packaging only, it shall also be stated that the packaging must be retained since it contains important information.)

–The toy are to be regularly examined for damage to the cord, plug,enclosure and other parts, and in the event of such damage, they must not be used until the damage has been repaired.

–“Warning Not suitable for children under 36 months”.

– the model number or specification of a suitable transformer for use with the toy;

– the transformer is not a toy;

– toys liable to be cleaned with liquids are to be disconnected from the transformer before cleaning.

2, Can not provide the EN 61558-2-7 report.

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# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
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REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 4.4 EN 50419:2006 Marking of electrical and electronic equipment

<u>Clause no.</u>	<u>Test Description</u>	<u>Result</u>
1	Scope	--
2	Normative references	--
3	Definitions	--
4	Making	<b>Fail</b> (Refer to fail memo)
4.1	Requirements of marking	<b>Fail</b> (Refer to fail memo)
4.2	Design of the marking	<b>Fail</b> (Refer to fail memo)
4.3	Location of the marking	<b>Fail</b> (Refer to fail memo)

#### Remarks:

a, Did not find the WEEE marking on the product.

#### **FAIL MEMO:**

The following WEEE symbol was not presented on the product.  
The WEEE symbol must be presented on the product and the height of symbol shall be greater than 7mm. ( $a \geq 3.33\text{mm}$ ). (Note: the percentage of dimension must be maintained)  
After wiping test, the marking shall be legible, it shall not be easily possible to remove the marking.

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REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 4.5 FLAMMABILITY TEST

**AS PER EUROPEAN STANDARD ON SAFETY OF TOYS EN 71-2:2011+ A1:2014  
SECTION 4.1 GENERAL REQUIREMENT (CELLULOSE NITRATE):**

Requirement: Celluloid (cellulose nitrate), except when used in varnish, paint or glue, or in balls of the type used for table tennis or similar games, and materials with the same behaviour in fire as celluloid, shall not be used in the manufacture of toys.

Results: The submitted sample(s) complied with this requirement.

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REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 4.6 CHEMICAL TESTS:

#### 4.6.1 ELEMENTS MIGRATION WITH REFERENCE TO 2009/48/EC AND ITS AMENDMENT

Test Method: EN71-3: 2013+A1:2014 Migration of certain elements

Results:

Elements <sup>1</sup>	Limits (Scraped off material)	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6
Antimony	560	<5.0	<1.0	<1.0	<1.0	<5.0
Arsenic	47	<2.5	<0.5	<0.5	<0.5	<2.5
Barium	18750	<5.0	<1.0	<1.0	<1.0	6.5
Cadmium	17	<5.0	<0.1	<0.1	<0.1	<5.0
Chromium III <sup>2</sup>	460	<0.2	<0.005	<0.005	<0.005	<0.2
Chromium VI <sup>2</sup>	0.2	<0.2 <sup>Δ</sup>	<0.005 <sup>Δ</sup>	<0.005 <sup>Δ</sup>	<0.005 <sup>Δ</sup>	<0.2 <sup>Δ</sup>
Lead	160	<5.0	<1.0	<1.0	<1.0	<5.0
Mercury	94	<5.0	<1.0	<1.0	<1.0	<5.0
Selenium	460	<5.0	<1.0	<1.0	<1.0	<5.0
Aluminum	70,000	<50	54.0	45.5	3.0	<50
Boron	15,000	<50	<1.0	<1.0	<1.0	<50
Cobalt	130	<5.0	<1.0	<1.0	<1.0	<5.0
Copper	7700	<50	1.5	<1.0	<1.0	<50
Manganese	15,000	<5.0	<1.0	<1.0	<1.0	27.5
Nickel	930	<5.0	<1.0	<1.0	<1.0	<5.0
Strontium	56,000	<5.0	<1.0	<1.0	<1.0	<5.0
Tin	180,000	<4.0	<0.05	<0.05	<0.05	<4.0
Organic Tin <sup>3</sup> (Expressed as TBT)	12	--	--	--	--	--
Zinc	46,000	<50	1.0	29.5	<1.0	<50

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REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### Results:

Elements <sup>1</sup>	Limits (Scraped off material)	Sample 7	Sample 9
Antimony	560	<5.0	<5.0
Arsenic	47	<2.5	<2.5
Barium	18750	<5.0	<5.0
Cadmium	17	<5.0	<5.0
Chromium III <sup>2</sup>	460	<0.2	<0.2
Chromium VI <sup>2</sup>	0.2	<0.2 <sup>A</sup>	<0.2 <sup>A</sup>
Lead	160	<5.0	<5.0
Mercury	94	<5.0	<5.0
Selenium	460	<5.0	<5.0
Aluminum	70,000	<50	<50
Boron	15,000	<50	<50
Cobalt	130	<5.0	<5.0
Copper	7700	<50	<50
Manganese	15,000	<5.0	<5.0
Nickel	930	<5.0	<5.0
Strontium	56,000	<5.0	<5.0
Tin	180,000	<4.0	<4.0
Organic Tin <sup>3</sup> (Expressed as TBT)	12	--	--
Zinc	46,000	<50	<50

All concentrations expressed in milligrams per kilogram  
"<" means "less than"

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REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### REMARK:

1. Heavy Metals Content are Determined by ICP-MS (Induced Couple Plasma Mass Spectrometry) / ICP-OES (Induced Couple Plasma Optical Emission Spectroscopy)
2. If the chromium content of the tested sample does not exceed the limits of chromium III and/or chromium VI, it is deemed to comply on the respective migration requirements of chromium III and/or chromium VI under 2009/48/EC. Otherwise, the compliance on the migration requirements of the individual chromium III and/or chromium VI should be confirmed by further speciation techniques.  
#: The chromium VI content is determined by LC-ICP-MS
3. If the Organic Tin content of the tested sample projected by the tin content does not exceed the limit of organotin, it is deemed to comply on the respective migration requirement of Organic Tin under 2009/48/EC and market with “- -”. Otherwise, the compliance on the migration requirement of Organic Tin is confirmed by GCMS analysis with derivatisation
4. Δ : Chromium VI data is based on total Chromium

### 4.6.2 TOTAL CADMIUM CONTENT AND EUROPEAN REACH REGULATION ANNEX XVII: MICROWAVE DIGESTION AND DETECTED WITH AAS/ICP

Results:

Element	Total Cadmium
Limit	< 100
Sample 2	<5.0
Sample 3	<5.0
Sample 4	<5.0
Sample 5	<5.0
Sample 7/9	<5.0

All concentrations expressed in milligrams per kilogram  
" < " means "less than"

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REPORT NO: C80891571  
DATE: July 15, 2016

## TEST RESULTS

### 4.6.3 TOTAL PHTHALATE TEST AND EUROPEAN REACH REGULATION ANNEX XVII

Test Method : EN 14372: 2004  
Requirement : DEHP, DBP & BBP content shall not be more than 0.1% by weight in toys and children article.  
DINP, DIDP & DNOP content shall not be more than 0.1% by weight in toys and children article that can be placed in the mouth by children.  
Results :

Sample ID	Plasticiser Values (w/w)					
	DBP	BBP	DEHP	DNOP	DINP	DIDP
Sample 2	ND	ND	ND	ND	ND	ND
Sample 3	ND	ND	ND	ND	ND	ND
Sample 4	ND	ND	ND	ND	ND	ND
Sample 5	ND	ND	ND	ND	ND	ND
Sample 9	ND	ND	ND	ND	ND	ND

Remarks: 1) Detection Limit for each phthalate = 0.005%  
2) ND = not detected

Key : DBP = Di-butyl phthalate  
BBP = Butyl-benzyl phthalate  
DEHP = Di-(2-ethyl-hexyl) phthalate  
DNOP = Di-n-octyl phthalate  
DINP = Di-iso-nonyl phthalate  
DIDP = Di-iso-decyl phthalate

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DATE: July 15, 2016

## TEST RESULTS

### Key to sample(s):

- Sample 1 = Slivery metal (screw on side of body)
- Sample 2 = Bright red coating on wood (logo) (A1Y)
- Sample 3 = Dark green coating on wood (logo) (A5Y)
- Sample 4 = Dark blue coating on wood (logo) (A7Y)
- Sample 5 = Clear lacquer coating on wood (body) (A21Y)
- Sample 6 = Brown wood excluding coatings (body)
- Sample 7 = White plastic (cover of LED light)
- Sample 8 = Slivery metal (screw on bottom of body)
- Sample 9 = Transparent soft plastic (food pad under body)

Date(s) of test(s) conducted: August 31, 2015 to September 1, 2015

\*\*\*\*\* Page 44 of 45 \*\*\*\*\*

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SZ-FAF-001 (2013-04-10)



中国认可  
国际互认  
检测  
TESTING  
CNAS L1114

# TEST REPORT

CLIENT: Carpenters Manufactory Limited  
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80891571  
DATE: July 15, 2016

## Product Photo:



\*\*\*\*\* THE END \*\*\*\*\*

\*\*\*\*\* Page 45 of 45 \*\*\*\*\*

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SZ-FAF-001 (2013-04-10)



## APPENDIX 1 - TERMS AND CONDITIONS OF SERVICE / 附件一：服务所依据的条款和条件

UL VS Shanghai Limited-Shenzhen Branch ("UL VS") undertakes to provide services to its Customer subject to the terms and conditions contained herein.  
优力胜邦质量检测(上海)有限公司深圳分公司("乙方")承诺根据下列所列的条款向客户("甲方")提供服务。

The term of limitation of liability contained herein has been conspicuously marked to draw the attention of the Customer, the full and complete explanation of the wording and legal significance of this term have been made to the Customer by UL VS. The Customer agrees that this term shall be construed as a provision of the agreement between UL VS and itself, based on the full and complete understanding of the wording and legal significance of this term.  
乙方对本附件第四条已经做出了明显的标识以提示甲方注意,并且对该条的文字表述和法律意义,向甲方做出了充分和完整的解释。甲方已经仔细阅读了本附件第四条,对其文字表述和法律意义已经充分和完整地理解,在此基础上甲方表示同意该条款当然成为甲乙双方之间的一项约定。

### COMPUTATION OF CHARGES AND PAYMENT 第一条 费用计算和付款

- (a) Consulting time shall be charged on a daily basis.  
咨询时间应当以日为基础计费。  
(b) Where the personnel of UL VS are assigned by its Customer to any in-house projects, the Customer shall be billed on an hourly basis on the compensation rates of its personnel.  
当乙方的人员被其甲方指派至任何内部项目,甲方应当以小时为基础按此等人员的报酬费率进行计费。
- Disbursements incurred on the Customer's behalf such as expenditure for communications, transportation, travel, the purchase of any materials, tools, equipment, components or parts which are directly related to the service shall be billed at costs and shall include a reasonable handling charge at the discretion of UL VS.  
为甲方而产生的开支如与服务直接相关的通讯、交通、差旅、购买任何原料、工具、设备、零件或部件的费用,应当按成本向甲方计费,且应包含一笔由乙方决定的合理手续费。
- Where in the opinion of UL VS the services are time consuming entailing the use of special equipment and disbursements, the Customer shall be charged on an "equipment-hour" basis on the time spent.  
当乙方判断服务将消耗大量时间,导致使用特殊设备或支出时,甲方将以所花费的"设备-小时"为基础收取费用。
- Payments shall be paid in RMB at its address or at such other address and in such manner as ULVS may from time to time specify. Payment made by post shall be at the risk of the Customer.  
付款应当在乙方所在地以人民币方式支付,或者根据乙方可以随时规定的其他方式支付,以邮寄方式做出的付款应当由甲方承担风险。
- The Customer undertakes during the continuance of this Agreement -  
甲方承诺在本协议存续期间:-
  - to punctually pay all billings rendered to the customer from time to time;  
准时支付不时提供给甲方的所有帐单;
  - unless otherwise agreed in writing, payment is to be made within 7 days from the date of Invoice or the date of the Debit Note;  
除非另有书面约定,付款应当在开发票或借记单之日起七天内做出;
  - where the Customer fails to pay within time, UL VS shall charge interest on overdue invoices at the rate of 2% per month or 24% per annum until payment, such interest to run from day to day and to accrue after as well as before any judgment and is to be compounded at monthly intervals;  
若甲方未能按时付款,乙方将就逾期未开发票金额以每月2%或每年24%的比例收取罚息,直至全额付款,此等罚息以日计算且在任何付款之前和之后都产生,并以月为间隔,按本金和不断累积的利息为基数来计算;
  - UL VS shall have a lien on any goods of the Customer until payment but the exercise of such lien shall not prevent interest continuing.  
乙方有权留置甲方的货物直至其付清付款,但留置权的行使不妨碍利息的继续计算。
- If the Customer shall fail to pay UL VS for any reason under Clause 1.5 or if the Customer shall commit a breach of any of its obligation under this Agreement or if a receiver of the Customer is appointed or if any resolution or petition to wind up the Customer's business shall be passed or presented (except for the purpose of reconstruction), UL VS may without prejudice to its other rights either suspend or cancel the Agreement and in such an event UL VS may also suspend or cancel any other existing contracts without being liable to damages.  
若甲方因任何原因未能根据第1.5条向乙方付款,或者甲方违反了本协议项下的任何义务,或者甲方的接管人一旦被任命,或结束甲方业务的责任决议或申请被通过或提交(为重组之目的除外),则乙方可以在不影响其他权利情况下中止或解除本协议,在此等情况下乙方也可以中止或撤销任何其他在合同且不对账负责。

### CONFIDENTIAL TREATMENT OF INFORMATION 第二条 信息的保密处理

- Unless otherwise specifically agreed between the parties, the services rendered by UL VS to the Customer shall be on a non-exclusive best-efforts basis.  
除非双方另有特别约定,由乙方为甲方提供的服务应当建立在不排除的勤勉尽责的基础之上。
- Anything explicitly agreed by UL VS and the Customer that all technical information (whether contained in models, drawings, reproductions of drawings, writing reports, letters, memoranda or notes or in any other form) shall be kept strictly confidential by UL VS (for the purposes of this Agreement and UL VS shall at all times use all reasonable efforts to prevent the disclosure to third parties of any part thereof) unless UL VS shall have first obtained the written consent of the Customer specifically authorizing such disclosure PROVIDED ALWAYS AND IT IS MUTUALLY AGREED that the confidentiality shall extend for a period of five (5) years from the date of completion of its work and PROVIDED FURTHER that UL VS shall not be liable under this clause if through no fault of UL VS the information is generally known to the public; or the information is generally known to UL VS; or is independently developed by UL VS without recourse to the materials provided by the Customer; or the information is necessary for publication with a judgment or writ issued by a competent court of any jurisdiction to which the Terms are subject, or with an order, notice or requirement issued by a governmental agency of the aforesaid jurisdiction.  
乙方和甲方明确同意,所有技术信息(无论书面或口头,包括模型、图纸、复制品、报告、信件、备忘录或笔记或以任何其他形式获得)都应当由乙方为本协议之目的而严格保密;乙方应当始终采取一切合理的努力以防止此等技术信息的任何部分向第三方泄露,除非乙方已经获得甲方特别授权此等泄露的书面同意,双方约定此等保密期限在工作完成之日起延续5年,且乙方在下列情况下根据本条不承担责任:在乙方未过错的情况下,该信息被公众普遍知悉;或该信息被乙方普遍知悉;或该信息由乙方独立开发,没有利用甲方所提供的材料;或该信息为乙方根据本协议履行义务所必需;或该信息在根据本条规定的拥有管辖权的法院出具的判决或正式文书根据上述管辖机构发布的命令,通知或要求必须提供。
- UL VS undertakes that the identity of its Customers and the nature of services rendered shall be kept confidential unless the Customer agrees in writing to their release Provided Always that UL VS shall not be liable under this clause if through no fault act or failure on its part the identity of the Customer is generally known to the public.  
乙方承诺对其甲方的身份和所提供的服务的性质保密,除非甲方书面同意披露,但若在乙方方面没有过错行为或失误的情况下,甲方的身份被公众普遍知悉,乙方不承担责任。

### PATENT RIGHTS 第三条 专利权利

- Any invention made in the performance of work for the Customer by UL VS within the field of work undertaken for the Customer, belongs to the Customer.  
在为甲方履行工作的过程中,在为甲方所承担的工作范围内由乙方作出的任何发明均属于甲方。
- UL VS's use of the aforesaid inventions shall be free of any royalty fees provided that the uses of such inventions are confined to the performance of the work for the Customer.  
在为甲方履行工作的过程中使用上述发明,乙方应当免费享有专利权利。

### LIMITATION OF LIABILITY 第四条 责任限制

- If any liability on the part of UL VS shall arise (whether under the express or implied terms hereof or under the relevant Chinese laws and regulations) in contract, tort or infringement, the Customer's liability to recover damages for any loss of whatever nature caused by the fault or negligence of UL VS or by any breach of its obligations or howsoever caused shall be limited to the payment by UL VS of the amount of the contract price under this Agreement and the said limitation of liability shall apply regardless of the form of action, whether in contract, tort, infringement or otherwise. In no event shall UL VS be liable for incidental or consequential damage. The Customer hereby acknowledges and states that its losses and damages, whether direct or indirect, resulted therefrom will be sufficiently recovered by the above amount of compensation and shall not raise any further claim against UL VS beyond such amount.  
若在本方产生任何合同或侵权责任,无论根据本协议明示或暗示条款,或根据相关中国法律法规,甲方要求赔偿乙方过失或违约或违反任何义务或其他原因造成的无论何种形式的任何损害赔偿的权利,应当限于根据本协议项下甲方支付给乙方的合同价款的数据,且无论诉讼形式为合同、侵权或其他侵权,上述责任限制条款应当适用,而乙方在任何情况下都无需为赔偿由此而起的损失承担责任。甲方在此承认并声明其因此而产生的损失和损害,无论直接或间接,都将由上述赔偿款项得以充分弥补,且在此款项之外不应由乙方提出任何进一步的请求。

### INDEMNITY 第五条 补偿

- In the event of actual or threatened suit against UL VS in relation to the services undertaken on behalf of the Customer or in relation to any of the Products or the Trade Mark or Patent of the Customer or of any allegation of infringement of any letters patent, registered design, trade mark or trade name, the Customer shall indemnify UL VS harmless from any liability, action, claim, demand, costs, charges and expenses arising therefrom or expense including solicitors fees, counsel's fees in defending such action Provided Always that the Customer will at its own election either effect any settlement or compromise or at its own expense defend any such action or proceeding and the Customer shall pay the costs of any settlement or compromise effected.  
若有与乙方代表甲方所承担的服务相关、或为甲方的任何产品或服务或专门针对乙方的任何实际的或可能的诉讼,或若有任何专利证书、注册设计、商标或商号的侵权声明,甲方应当赔偿乙方,以免其免受任何因此而产生的责任、诉讼、索赔、催告、催告、开支、收费和费用或抗辩此等行为的费用,包括律师费、顾问费,但若甲方将自行决定采取任何和解或妥协行动,或自费抗辩此等行动或程序,则甲方应当支付采取任何和解或妥协行动的费用。

### SOLICITATION OF EMPLOYEES 第六条 雇员引诱

- It is mutually agreed that neither party shall solicit the employees of the other for employment or hire unless prior written consent to do so is obtained.  
双方同意除非得到事先书面同意,任何一方均不得引诱雇员或聘用另一方的雇员。

### EFFECT OF PROPOSAL 第七条 建议书的效力

- The accompanying proposal is valid for a period of ninety (90) days from the date of the proposal unless extended in writing by UL VS. Upon the acceptance of such proposal, this appendix shall form part of the Agreement with the Customer and notwithstanding any prior discussions or prior oral or written agreements to the contrary, the terms and conditions herein shall be applicable and take precedence over any conflicting terms contained in any documents submitted by the Customer.  
附随之建议书,除非由乙方书面延展,其有效期为建议书出具之日起九十(90)日。一旦接受该建议书,本附件应当构成与甲方协议的一部分,且无论之前提是否有与之相关的任何讨论或口头或书面协议,本文中的条款和条件应当适用于,且取代甲方提交的任何文件中所包含的任何与之相关的条款。

### DATA AND DOCUMENT RETENTION 第八条 数据和文件保留

- (a) After the services are rendered, UL VS may retain a copy of all documents relating to the services (the "Supporting Documents") for as long as UL VS, in its sole discretion, deems fit.  
在服务结束后,乙方有权在认为适当时保留一份与其服务相关的所存文件("支持文件")的复印件。  
(b) Unless otherwise specified or required by the applicable law, all Supporting Documents over 3 years of age will be automatically destroyed by UL VS without notice to the Customers. Should any or all Supporting Documents less than 3 years are scheduled to be destroyed, UL VS shall give the Customer 30 Days' written notice to the Customer's last known address of its intention to destroy the Supporting Documents. Unless the Customer makes a written request to UL VS reaching UL VS before the expiration of the said 30 days seeking delivery of those documents to the Customer at the Customer's expense, those documents shall be destroyed.  
除非另有说明或法规所要求,所有超过3年的支持文件将由乙方自动销毁,通知甲方。若任何少于三年的支持文件将被销毁,乙方应当按最后被其知悉的甲方地址给予甲方一份30日期限的书面通知,告知其销毁该文件的意愿。除非甲方方向乙方提出书面请求,要求将此等文件交付给甲方,并且该请求在上述30日期限前送达乙方并由甲方承担费用,否则此等文件将被销毁。  
(c) The Customer shall indemnify UL VS for any costs or expenses in responding to or opposing any subpoena, the production of any documents in Court seeking the disclosure of the said documents or any information contained therein.  
甲方应当赔偿乙方为回应或对抗任何寻求揭示上述文件或其中包含的任何信息的传票以及在法庭上制作文件的任何费用或支出。

### GOVERNING LAW 第九条 适用法律

- This Agreement and the rights and obligations of the parties shall in all respects be governed, construed, interpreted and operated in accordance with the relevant Chinese laws and regulations.  
本协议和双方的权利和义务在各方面都应当由相关的中国法律法规管辖、解释、和解和执行。

### OBLIGATIONS OF THE CUSTOMER 第十条 甲方的义务

- If the Customer intends to change the work hereunder or assign any other work to UL VS, such a change or new assignment shall be subject to a separate negotiation and agreement between both of the parties. If UL VS suffers any loss or damage because the Customer changes the Customer's contractual work undertaken by UL VS as agreed by both parties prior to completion of the work, the Customer shall compensate for such losses and damages.  
若甲方变更或重新分配的工作由乙方另行磋商和约定,若由于甲方在工作完成之前变更或重新分配的工作,而导致乙方遭受了任何损失或损害,甲方应当赔偿此等损失和损害。  
若甲方变更或重新分配的工作由乙方另行承担其他工作,此等变更或重新分配的工作应当由双方另行磋商和约定,若由于甲方在工作完成之前变更或重新分配的工作,而导致乙方遭受了任何损失或损害,甲方应当赔偿此等损失和损害。
- If the work undertaken by UL VS hereunder requires any assistance of the Customer, the Customer shall be obliged to provide all necessary and reasonable assistance which UL VS may deem fit. If the work undertaken by UL VS hereunder cannot be completed due to the Customer's failure to perform its obligation to assist, UL VS may demand the Customer performs its obligation within a reasonable period of time and may appropriately extend the time limit for its own work. If upon the expiration of such reasonable time period the Customer still fails to perform its obligation, UL VS may terminate this Agreement, without prejudice to any other rights of UL VS hereunder or under any applicable laws and regulations.  
若本协议项下乙方所承担的工作需要甲方的协助,甲方有义务提供乙方认为合适的所有的必需和合理的协助。若由于甲方未能履行其协助义务而使本协议中乙方所承担的工作无法完成,乙方可以在合理期限内催告甲方履行义务,且可以适当地延展其工作的时限。若在上述合理期限期满后甲方仍然未能履行其义务,乙方可以终止本协议,且不影响本协议或任何可适用的法律法规所赋予的任何其他权利。

### SAMPLES 第十一条 样品

- UL VS expects Customers to abide by all applicable regulations when shipping samples to UL VS. Improper shipping may result in additional charges for costs incurred by UL VS: (a) to identify samples to UL VS, (b) damage done to UL VS personnel or property as a result of improper packaging, labeling or omission of identifying documents. UL VS has the right to refuse receipt of any shipment that, in its discretion, is unsafe or has been shipped improperly. Any costs associated by refusal to accept shipment under this clause are the sole responsibility of the Customer. Customer shall indemnify and hold harmless UL VS for any and all damages, expenses, fines, judgments, liabilities and costs (including attorney's fee) incurred by UL VS and arising from the improper packaging or shipment of the sample to the Customer.  
乙方期望甲方能够遵循所有适用的规定和法规以寄送样品。不当的寄送方式可能会导致成本增加,乙方将收取附加费用:(a) 鉴定样品成本;(b) 由于不正确的包装、标记或者识别文件的遗漏导致乙方人员或财产受损。乙方拥有拒绝接收的判断为不安全或以不正确方式寄送的样品之权利。在这种情况下,由于乙方拒绝接收而产生的一切费用将由甲方单独承担。乙方将要求甲方赔偿由于甲方不正确的包装和寄送方式所导致的部分以及全部的损害、开支、罚款、裁定、债务以及其他费用(包括律师费用)。

### E-MAIL DISCLAIMER 第十二条 电子邮件免责声明

- UL VS shall follow the request of the Customer in the event that final report / results hereunder shall be sent by e-mail rather than by paper hard copy. UL VS considers e-mail a valuable and efficient tool, however, UL VS hereby gives cautions to the Customer that the report / results in electronic version may inadvertently be modified once it is in the Customer's word processing system. Further, the current e-mail transmission technology may allow for interception of messages and reports / results by third parties. UL VS shall not be held responsible for these risks, which are out of its control. Should a report / results be sent to the Customer by e-mail on its request, such a request SHALL BE DEEMED TO BE AN ACCEPTANCE OF THE RISK THAT THE REPORT / RESULTS MAY BE INTERCEPTED BY THIRD PARTIES. The Customer shall agree that the report / results shall be sent by UL VS unencrypted. Transmission of the report / results (or other materials requested by the Customer) via the internet or other public network shall not be considered to constitute a breach of any confidentiality or other provisions of this Agreement with UL VS and the Customer, and UL VS shall in no way be liable for any damages resulting from such a transmission. Additionally, UL VS shall not be liable for any damages incurred by the Customer for any changes made to the report / results after it has been transmitted.  
若甲方要求将本协议项下最终报告/结果以电子附件而非以纸质文件的形式寄发时,乙方应遵照甲方的此等要求。乙方视电子附件为有用且有效的工具,然而,乙方在此警告甲方,一旦电子附件报告/结果进入甲方的客户处理系统,其有可能被非故意地修改。此外,现有的电子邮件传递技术有可能使得第三方对信息及报告/结果进行拦截。乙方不应对此等超过乙方控制范围的风险负有责任。如果一份报告/结果在甲方的请求下需以电子附件的方式寄发,那么此等请求同时被视为接受第三方可能拦截这份报告/结果的风险。甲方同意乙方以不加密的方式寄发报告/结果。通过互联网或其它公共网络传递报告/结果(或甲方要求的其它材料),不应视为构成违反乙方和其甲方间的协议中规定的任何保密或其它条款,并且乙方不以任何方式对此等传递而产生的任何损失负责。此外,乙方不对任何人在报告/结果被传递后对其做的任何修改使甲方承担的任何损失负责。

### MISCELLANEOUS PROVISIONS 第十三条 其他规定

- Any provision of this Agreement prohibited by or regarded as unlawful or unenforceable under any applicable law actually applied by any court of competent jurisdiction shall, to the extent required by such law, be severed by this Agreement and rendered ineffective so far as is possible without modifying the remaining provisions of the agreement. Where however the provisions of any such applicable law may be waived, they are hereby waived by the parties hereto to the full extent permitted by law to the end that this Agreement shall be valid and binding agreement enforceable in accordance with its terms.  
根据有管辖权的法院所适用的任何法律,本协议的任何条款被禁止或被视为无效或不可执行时,则应当在此等法律所要求的范围内尽可能地不影响协议其他条款的效力。但若任何此等适用的法律之规定可以被放弃或不适用,则双方在此等法律所允许的范围内尽可能地放弃此等规定,以使本协议成为有效的、有约束力的完整协议。  
A certificate signed by any officer of UL VS as to the amount due from the Customer hereunder at the date of such certificate shall, in the absence of manifest error, be conclusive evidence of the amount due.  
一份由乙方的任何管理人员签署的根据本协议甲方在等证书签发之日应付款项的证书,若无明显错误,应作为此等应付款项的确定。  
Nothing in this Agreement shall be considered to form a partnership between the parties. No party shall represent that it acts as agent for another or has any capacity to bind another in any contractual or other arrangements.  
本协议中没有任何条款应被视为构成双方之间的合伙关系。任何一方均不得声明其作为另一方的代理人或能力在任何合同或其他安排中约束另一方。  
Save as herein otherwise provided any notice required to be given hereunder shall be sufficiently given if given in writing or by telegram or telex to the last known postal address or telex number of the addresses and every notice shall be deemed to have been received and given at the time when in the course of transmission it should have been delivered at the address or telex number to which it was sent.  
除非另有规定,根据本协议需要作出的任何通知,如以书面形式或通过电话或电报向其所知的地址或电报地址的电话号码作出,应被视为充分作出;且其在传送过程中,当其应当已经送达至所发送的地址或电话号码时,应当被视为已被收到和作出。  
This report or certificate does not release sellers/suppliers from their contractual responsibility with regards to the quality/quantity of this delivery nor does it prejudice Customer's right to claim towards sellers/suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit.  
本报告或证书并未免除卖方/供应商关于交付货物质量/数量方面的合同责任,也不影响甲方方向卖方/供应商主张赔偿在乙方随机检查或测试或审核中未被发现的任何表面和/或隐藏的瑕疵的权利。