



19908 LASER SKY PROJECTOR

test certificates

Test Report

Applicant: HPI Hong Kong Limited
Unit 1715-18, 17/F., Corporation Square,
8 Lam Lok Street, Kowloon Bay,
Kowloon, Hong Kong.

Number: ET-R0624996

Date : 07 December 2006

Sample Description :
Product : Laser Stars
Brand Name : Can You Imagine
Model No. : 5105
Electrical Rating : AC6V 1500mA
No. of Samples : 1

Date Received : 13 November 2006 to 01 December 2006

Date Test Conducted : 13 November 2006 to 04 December 2006

Test Requested : Test for compliance with EN 60825-1 : 1994

Test Method : EN 60825-1 : 1994 + A1 + A2

Test Result : See the attached sheets.

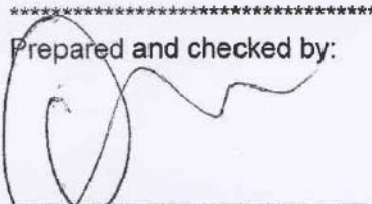
Conclusion : The submitted samples complied with the above safety standards/requirement.
But the note should be noted.

Remark : 1. When determining the test conclusion, the Measurement Uncertainty of test has been considered.

2. 6 blue LEDs used in apparatus are identical to each other.

***** End of Page *****

Prepared and checked by:



Chan Tsz Kwan, Olive
Senior Lead Engineer
Intertek Hong Kong
ETL SEMKO

The test results reported in this test report shall refer only to the sample actually tested and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.
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Test Report

Test Results:

Number : ET-R0624996

EN 60825-1 : 1994

<u>Clause</u>	<u>Title/Description</u>	<u>Result</u>
1	Scope and object	--
2	Normative references	--
3	Definitions	--
4	Engineering specifications	Not Applicable
5	Labelling	Complied
6	Other informational requirements	Complied
7	Additional requirements for specific laser products	Not Applicable
8	Classification	Complied
9	Measurement for classification	Complied

Note:

The measured emission level did not exceed the accessible emission level of class 2 according to EN60825-1: 1994+A1+A2, the apparatus was classified as "Class 2 LED Product".

***** End of Page *****



Test Report

Appendix I:

Number : ET-R0624996

Table of critical components and materials

Component	Manufacturer	Type No.	Technical Data	Standard	Marks of Conformity
Laser diode	諾衛斯光電	NA-GL-D002	Wavelength: 532nm	EN60825-1	Tested with appliance
Blue LED	Shen Zhen Heng Da Optoelectronics Technology Co., Ltd.	HDL-5B4SC-N463	Wavelength: 460-465nm	EN60825-1	Tested with appliance

***** End of Page *****

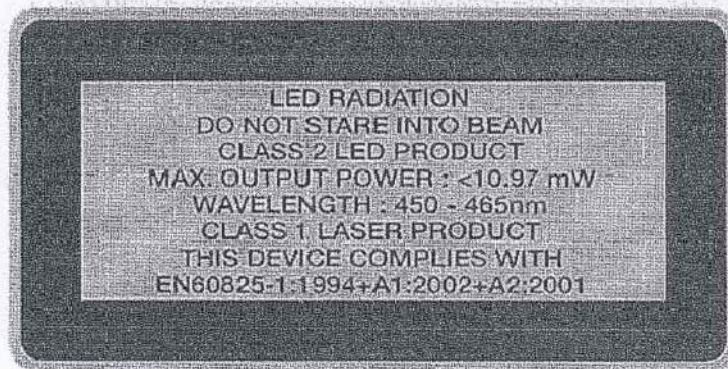
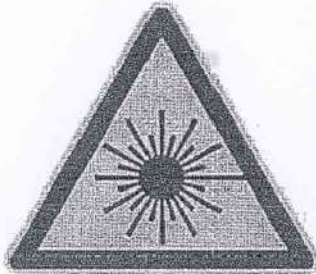
Test Report

Appendix II:

Number : ET-R0624996

Details of marking description on the sample:

The following information was printed on label (yellow background with black wordings) adhered on enclosure of the appliance:



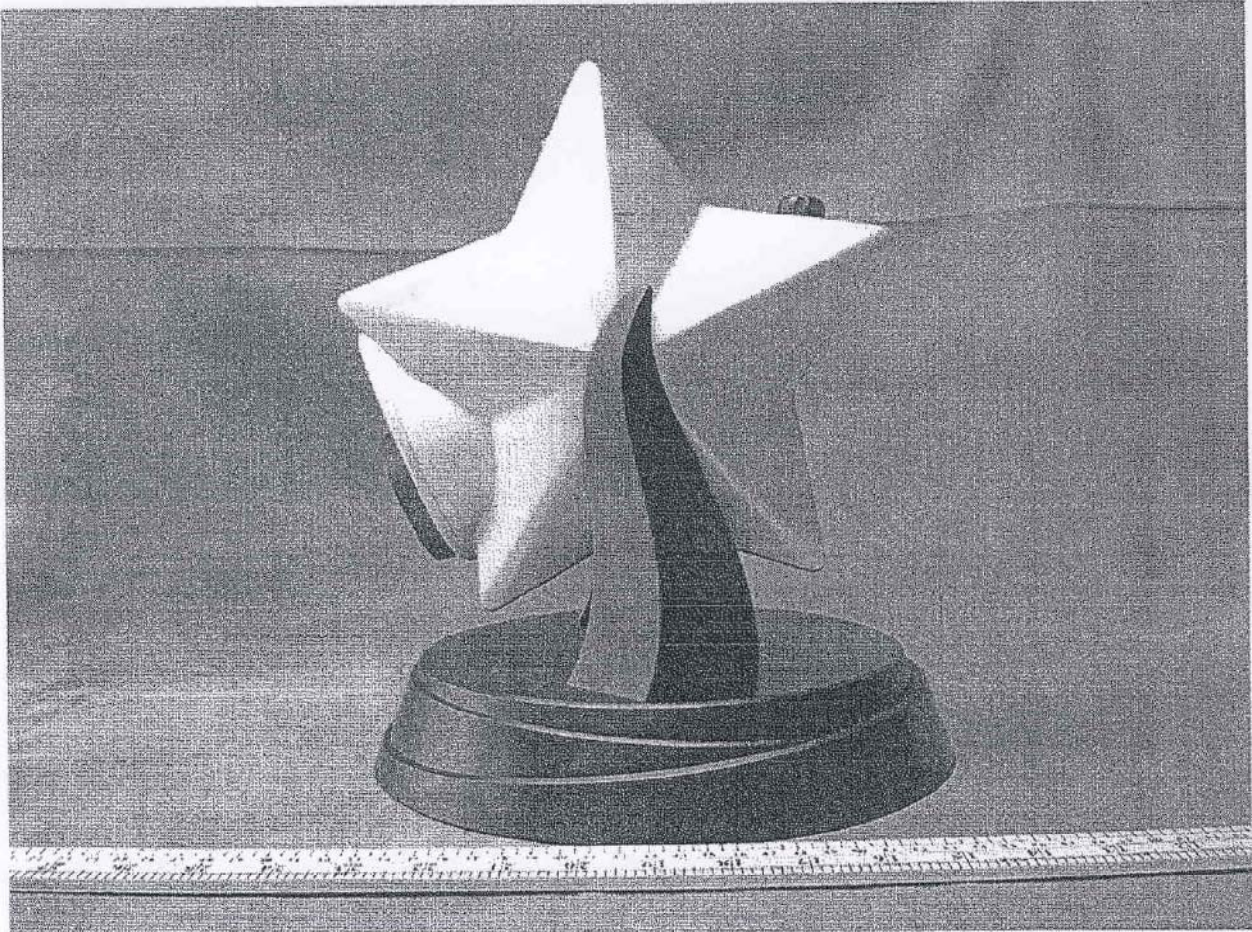
***** End of Page *****

Test Report

Appendix III:

Number : ET-R0624996

Photo:



Outlook of the apparatus

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

Intertek ETL SEMKO

VERIFICATION OF CONFORMITY

Applicant : HPI Hong Kong Limited
Unit 1715-18, 17/F., Corporation Square,
8 Lam Lok Street,
Kowloon Bay,
Hong Kong.

Product : Laser Stars

Model(s) : 5105

Brand name (s): Can You Imagine

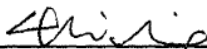
The submitted sample(s) of the above product has been tested according to the following European Directives :

Electromagnetic Compatibility Directive (89/336/EEC) - EMC

Standard(s) used for showing compliance with the essential testing requirements in the above listed directive(s) :

<u>Standard(s)</u>	<u>Test Report No(s).</u>	<u>EU Directive (s)</u>
EN 61000-6-3 : 2001+A11	0622269	EMC
EN 61000-3-2 : 2000 +A2	0622269	EMC
EN 61000-3-3 : 1995+A1	0622269	EMC
EN 61000-6-1 : 2001	0622269	EMC

The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of compliances with essential testing requirements in the above listed EU Directives. Other relevant Directives have to be complied and after preparation of the necessary technical documentations as well as the conformity declaration, then CE marking as shown below can be affixed on the product.

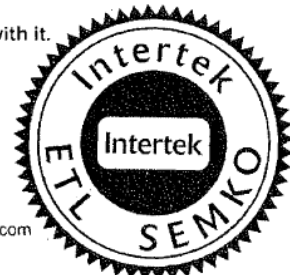

Chow Chi Ming, Billy
Assistant Manager
Signed for and on behalf of
Intertek Hong Kong
ETL SEMKO

Date : 29 November, 2006

NOTE : This verification is part of the full test report and should be read in conjunction with it.



Intertek Testing Services Hong Kong Ltd.
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EMC VERIFICATION SUMMARY

Report No.: 0622269

Lighting Products Others

Model : 5105	Applicant: HPI Hong Kong Limited Unit 1715-18, 17/F., Corporation Square, 8 Lam Lok Street, Kowloon Bay, Hong Kong.						
Product Description : Laser Stars	Sample Receipt Date : 05 October, 2006						
Test Conducted Date : 05 October, 2006 to 23 November, 2006							
<input checked="" type="checkbox"/> 1 st TEST <input type="checkbox"/> 2 nd TEST (after modification)	ALL TESTS WERE CONDUCTED IN ACCORDANCE WITH: * EN 61000-6-3 (EN 55022) : 2001+A11 * EN 61000-3-3 : 1995+A1 * EN 61000-6-1 (EN 61000-4-2) : 2001 * EN 61000-6-1 (EN 61000-4-3) : 2001 * EN 61000-6-1 (EN 61000-4-4) : 2001 * EN 61000-6-1 (EN 61000-4-5) : 2001 * EN 61000-6-1 (EN 61000-4-6) : 2001 * EN 61000-6-1 (EN 61000-4-11) : 2001						
Test Result	OK	Not OK	See Remark	Test Result	OK	Not OK	See Remark
EN 55014-1 : 2000+A1+A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EN 61000-4-4 : 2004	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EN 55022 : 1998+A1+A2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EN 61000-4-5 : 1995+A1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EN 61000-3-2 : 2000+A2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EN 61000-4-6 : 1996+A1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EN 61000-3-3 : 1995+A1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EN 61000-4-8 : 1993+A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EN 61000-4-2 : 1995+A1+A2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EN 61000-4-11 : 2004	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EN 61000-4-3 : 2002+A1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
When determining the test conclusion, the Measurement Uncertainty of test has been considered.							

Prepared and checked by:

Lam Hon Ming, Kenneth
 Senior Lead Engineer
 Intertek Hong Kong
 ETL SEMKO

Approved by:

Chow Chi Ming, Billy
 Assistant Manager
 Intertek Hong Kong
 ETL SEMKO
 29 November, 2006

- This summary is part of the full report and should be read in conjunction with it.
- The test results reported in this test report shall refer only to the sample actually tested and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.
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Report No. : 0622269

EMC Results Conclusion (with Justification)

RE: EMC Testing Pursuant to EMC Directive 89/336/EEC Performed On the Laser Stars,
Model: 5105

We tested the Laser Stars, Model: 5105, 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 61000-6-3, EN 61000-3-3, EN 61000-6-1 (EN 61000-4-2), EN 61000-6-1 (EN 61000-4-3), EN 61000-6-1 (EN 61000-4-4), EN 61000-6-1 (EN 61000-4-5), EN 61000-6-1 (EN 61000-4-6) and EN 61000-6-1 (EN 61000-4-11) standards when tested as received.

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

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

EN 61000-3-2: According to EN61000-3-2: 2000+A2, equipment with a rated power of 75W or less, other than lighting equipment, the limits for this case is not yet considered. Hence, the product is deemed to comply with the standard without any measurements.

Ctrl. No.: 1.2.1

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INTERTEK TESTING SERVICES

Report No.: 0622269

LABORATORY MEASUREMENTS

Configuration Information

Equipment Under Test (EUT):	Laser Stars
Model:	5105
Serial No.:	Not Labelled
Support Equipment:	N/A
Specification:	N/A
Cables:	N/A
Adaptor:	Model: KA23A060120035G Input: 230VAC 50Hz 60mA Output: 6VAC 1200mA

INTERTEK TESTING SERVICES

Applicant: HPI Hong Kong Limited
Model: 5105

Report No.: 0622269

Emissions Test Pursuant to EN 61000-6-3 (EN55022): Class B Emissions Requirement

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-0014	EMI Test Receiver	R&S	ESVS30	842807/001
EW-0446	Log Periodic Antenna	EMCO	3146	9905-5219
EW-1041	Biconical Antenna	EMCO	3104C	34883
EW-2074	14m Double Shield RF Cable (20MHz to 6GHz)	RADIAL	N(m)-RG142-BNC(m) L= 14M	Nil
EW-2099	14m Double Shield RF Cable (20MHz to 6GHz)	RADIAL	N(m)-RG142-BNC(m) L= 14M	Nil
EW-2188	Spectrum Analyser	Agilent	E4407B	MY45103609

INTERTEK TESTING SERVICES

Applicant: HPI Hong Kong Limited
Model: 5105

Report No.: 0622269

Data Table

Radiated Scan

Pursuant to EN 61000-6-3 (EN 55022): Class B 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)
H	186.248	29.9	19.4	30	-10.6
H	254.386	35.6	25.1	37	-11.9
H	309.452	36.4	25.9	37	-11.1
H	389.674	36.2	25.7	37	-11.3
H	496.302	35.2	24.7	37	-12.3
H	585.474	35.0	24.5	37	-12.5

Notes: 1. Quasi-Peak Detector Data

2. Negative sign (-) in the margin column signify levels below the limit.

3. Frequency range scanned: 30 MHz to 1000 MHz

4. Only emissions significantly above equipment noise floor are reported.

Ctrl. No.: 3.1

INTERTEK TESTING SERVICES

Applicant: HPI Hong Kong Limited
Model: 5105

Report No.: 0622269

Data Table

Conducted Emission Test
Pursuant to EN 61000-6-3 (EN 55022): Class B Emissions Requirement

Used Test Equipment

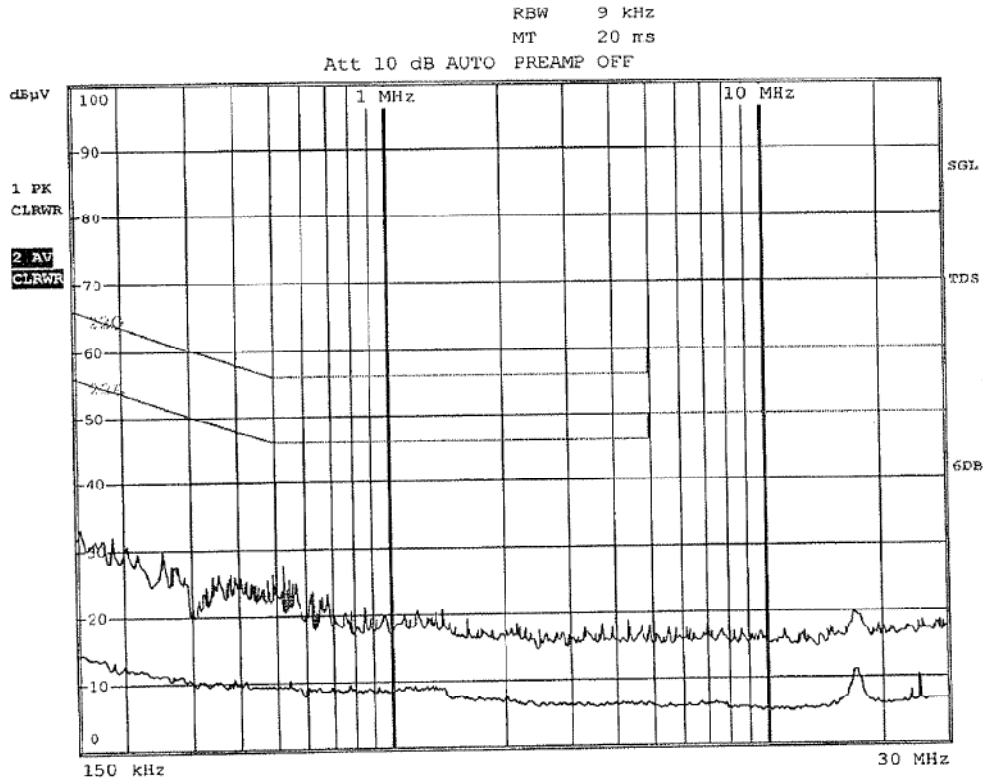
Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-0090	LISN	R&S	ESH3-Z5	840731/0013
EW-0698	Pulse Limiter	R&S	ESH3-Z2	830.836/033
EW-2251	EMI Test Receiver	R&S	ESCI	100350

1. The attached graph was recorded for the tests on the telecommunications port.
2. Graphs of Ctrl. No.: 3.2.1 is attached.

Ctrl. No. : 3.2



Report No.: 0622269
Main terminal, 'L'



0622269

Date: 17.NOV.2006 20:10:26

Ctrl No.: 3.2.1

INTERTEK TESTING SERVICES

Applicant: HPI Hong Kong Limited
Model: 5105

Report No.: 0622269

EN 61000-3-3 Voltage Fluctuations

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-1448	Harmonic, Flicker and Voltage Drop Test System	SCHAFFNER	NSG1007-5-400	54661
EW-1781	Three Phase Power Analyzer	Voltech Instrument	PM3000ACE	AI103/8843
EW-1782	Reference Impedance Network	Voltech Instrument	UK	8729

Test Result

	Result	Limit
$d_{\max}(\%)$	0.063	4.000
$d_c(\%)$	0.017	3.300
$d(t) > 3.3 \%(ms)$	0	500
P_{st}	0.071	1.000
P_{lt}	N/A	0.650

Ctrl. No.: 5.2

INTERTEK TESTING SERVICES

Applicant: HPI Hong Kong Limited
Model: 5105

Report No.: 0622269

EN 61000-4-2 Electrostatic Discharge

Test Summary (Pursuant to EN 61000-6-1)

Basic Standard:	EN 61000-4-2
Port:	Enclosure
Required Performance Criterion:	B
Limit:	±8.0 kV (Air Discharge) ±4.0 kV (Contact Discharge) ±4.0 kV (Indirect Contact Discharge)
Time Between Each Discharge:	1 second
Test Mode:	Laser and maximum cloud brightness
Test Setup:	Table-top
Test of Post-installation:	N/A

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-1557	ESD Gun 30kV	Haefely	PESD3010	H208110

INTERTEK TESTING SERVICES

Report No.: 0622269

Test Results

EN 61000-4-2 Electrostatic Discharge

Discharge Type	Point of discharge	No. of discharge	Applied Voltage	Result (Pursuant to EN 61000-6-1 criterion B)
Contact Discharge	Figure(s) 9-10	20	+4kV	OK
			-4kV	OK
Air Discharge	Figure(s) 1-10	20	+8kV	OK
			-8kV	OK
Indirect HCP Discharge	Figure(s) 11	20	+4kV	OK
			-4kV	OK
Indirect VCP Discharge	Figure(s) 12	20	+4kV	OK
			-4kV	OK

*Please refer to the attached additional information.

INTERTEK TESTING SERVICES

Applicant: HPI Hong Kong Limited
Model: 5105

Report No.: 0622269

EN 61000-4-2
Electrostatic Discharge
(Fig. 1 to 12 for Points of Discharge)

INTERTEK TESTING SERVICES

Applicant: HPI Hong Kong Limited
Model: 5105

Report No.: 0622269

EN 61000-4-3 Radiated Immunity

Test Summary (Pursuant to EN 61000-6-1)

Basic Standard:	EN 61000-4-3
Port:	Enclosure
Required Performance Criterion:	A
Limit:	3.0 V/m (rms)
Test Modulation:	1kHz, 80% AM
Frequency:	80 MHz to 1000 MHz
Dwell Time:	1s
Frequency Step:	1%
Temperature:	45°C
Relative Humidity:	27%
Test Facility:	Full Anechoic Chamber
Antenna Polarization:	Horizontal and Vertical
Type of Antenna:	Biconical / Log-periodic
Test Distance:	3m
Test Mode:	Laser and maximum cloud brightness
Test Setup:	Table-top
Size of the EUT	29.2 (cm) x 24.5 (cm) x 21.3 (cm)

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-0611	AM/FM Signal Generator	Marconi	2024	112139/025
EW-1902	Trilog Super Broadband Test Antenna 30MHz - 3000MHz	SCHWARZBECK	VULB 9163	9163-199
EW-2110	RF Power Amplifier	OPHIR RF	5127FE	1011

Ctrl. No.: 8.1

INTERTEK TESTING SERVICES

Report No.: 0622269

Test Results

EN 61000-4-3 Radiated Immunity

Frequency (MHz)	Exposed Side	Field Strength (V/m)	Result (Pursuant to EN 61000-6-1, criterion A)
80 to 1000	Front	3V/m (rms)	OK
80 to 1000	Left	3V/m (rms)	OK
80 to 1000	Rear	3V/m (rms)	OK
80 to 1000	Right	3V/m (rms)	OK

Additional Information

No observable change

EUT stopped operation and could / could not be reset by operator.

EUT was in abnormal operation:
- operation mode was changed from ____ to ____ at ____ V/m.

INTERTEK TESTING SERVICES

Applicant: HPI Hong Kong Limited
Model: 5105

Report No.: 0622269

EN 61000-4-4 Electrical Fast Transient/Burst

Test Summary (Pursuant to EN 61000-6-1)

Basic Standard:	EN 61000-4-4	
Port:	A.C. Power Ports	D.C. Power Ports, Signal Ports and Telecommunication Ports
Required Performance Criterion:	B	
Limit:	±1.0kV	±0.5kV
Test Duration:	2 minutes	
Test Mode:	Laser and maximum cloud brightness	
Test Setup:	Table-top	
Generator Drive:	Internal	
Sequence of Application:	Each One	

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-1965	EMS Tester for IEC/EN 61000-4-X	Hilo Test	CE-Tester	20043062

INTERTEK TESTING SERVICES

Report No.: 0622269

Test Results

EN 61000-4-4 Electrical Fast Transient/Burst

Port	Level	Result (Pursuant to EN 61000-6-1, criterion B)
A.C. Power Lines	+1kV	OK
	-1kV	OK
D.C. Power Lines, Signal Lines and Telecommunication Ports	+0.5kV	N/A
	-0.5kV	N/A

Additional Information

No observable change

EUT stopped operation and could / could not be reset by operator at ____ kV of Burst.

EUT was in abnormal operation:
- operation mode was changed from ____ to ____ at ____ kV of Burst.

INTERTEK TESTING SERVICES

Applicant: HPI Hong Kong Limited
Model: 5105

Report No.: 0622269

EN 61000-4-5 Surge Immunity

Test Summary (Pursuant to EN 61000-6-1)

Basic Standard:	EN 61000-4-5		
Port:	A.C. Power Lines		
	Phase And Neutral	Phase And Earth	Neutral And Earth
Limit:	5 Positive And 5 Negative Surges		
	±1kV	±2kV	±2kV
Generator Impedance:	2 ohm	12 ohm	12 ohm
Required Performance Criterion:	B		
Repetition Rate:	1 minute		
Test Mode:	Laser and maximum cloud brightness		
Test Setup:	Table-top		
Surge Generator Trigger:	Internal		
Installation Condition:	Class 3: Electrical environment where cables run in parallel.		
Phase Angle:	0°, 90°, 180°, 270°		

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-1965	EMS Tester for IEC/EN 61000-4-X	Hilo Test	CE-Tester	20043062

INTERTEK TESTING SERVICES

Report No.: 0622269

Test Results

EN 61000-4-5 Surge Immunity

Level	Result (Pursuant to EN 61000-6-1 criterion B)
Between Phase And Neutral: ±1kV	OK
Between Phase And Earth: ±2kV	N/A
Between Neutral And Earth: ±2kV	N/A

Additional Information

No observable change

EUT stopped operation and could / could not be reset by operator at ____ V of Surge.

EUT was in abnormal operation:
- operation mode was changed from ____ to ____ at ____ V of Surge.

INTERTEK TESTING SERVICES

Applicant: HPI Hong Kong Limited
Model: 5105

Report No.: 0622269

EN 61000-4-6 Injected Current (0.15 MHz to 80 MHz)

Test Summary (Pursuant to EN 61000-6-1)

Basic Standard:	EN 61000-4-6	
Port:	A.C. Power Ports	D.C. Power Ports, Signal Ports and Telecommunication Ports
Required Performance Criterion:	A	
Limit:	3.0V (rms)	3.0V (rms)
Test Modulation:	1 kHz, 80% AM	
Frequency	0.15 MHz to 80 MHz	
Rate of sweep:	1.5 x 10 ⁻³ decades/s	
Dwell Time:	3s	
Frequency Step:	1%	
Temperature:	25°C	
Relative Humidity:	50%	
Coupling Factor of CDN:	-1.0dB ~ -1.7dB	
Test Mode:	Laser and maximum cloud brightness	
Test Setup:	Table-top	
Size of the sample:	29.2 (cm) x 24.5 (cm) x 21.3 (cm)	
Equipment Under Test (EUT):	Single Unit	

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-0190	AM/FM Signal Generator	MARCONI	2022D	119156/029
EW-0614	RF Power Amplifier	AMP Research	25A250	17469
EW-1454	Coupling Decoupling Network	SCHWARZBECK	L801/M2/M3	1904
EW-2070	6dB RF Attenuator (50W)	Aeroflex	2N50W-6dB	Nil

INTERTEK TESTING SERVICES

Report No.: 0622269

Test Results

EN 61000-4-6 Injected Current (0.15 MHz to 80 MHz)

Port:	Frequency (MHz)	Level	Result (Pursuant to EN 61000-6-1, criterion A)
A.C. Power Ports	0.15 to 80	3V (rms)	OK
D.C. Power Ports	0.15 to 80	3V (rms)	N/A
Signal Ports	0.15 to 80	3V (rms)	N/A
Control Ports	0.15 to 80	3V (rms)	N/A
Protective Earth Ports	0.15 to 80	3V (rms)	N/A

Additional Information

No observable change

EUT stopped operation and could / could not be reset by operator at _____ V of Injected Current.

EUT was in abnormal operation:
- operation mode was changed from _____ to _____ at _____ V of Injected Current.

INTERTEK TESTING SERVICES

Applicant: HPI Hong Kong Limited
Model: 5105

Report No.: 0622269

EN 61000-4-11 Voltage Dips and Interruptions

Test Summary (Pursuant to EN 61000-6-1)

Basic Standard	EN 61000-4-11		
Port:	A.C. Power Lines		
Limit	Test level in %U _T	Duration(s)	Required Performance Criterion
	70	0.01	B
	40	0.1	C
	0	5	C
No. of dips/interruptions:	3		
Test Mode:	Laser and maximum cloud brightness		
Test Setup:	Test generator causes the interference to the EUT AC mains		

U_T is the rated voltage for the equipment.

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-1965	EMS Tester for IEC/EN 61000-4-X	Hilo Test	CE-Tester	20043062

Ctrl. No.: 12.1

INTERTEK TESTING SERVICES

Report No.: 0622269

Test Results

EN 61000-4-11 Voltage Dips and Interruptions

Test condition		Result (Pursuant to EN 61000-6-1 criterion B)
Test Level in %U _T	Duration(s)	
70	0.01	OK

Test condition		Result (Pursuant to EN 61000-6-1 criterion C)
Test Level in %U _T	Duration(s)	
40	0.1	OK
0	5	OK

U_T is the rated voltage for the equipment.

Additional Information

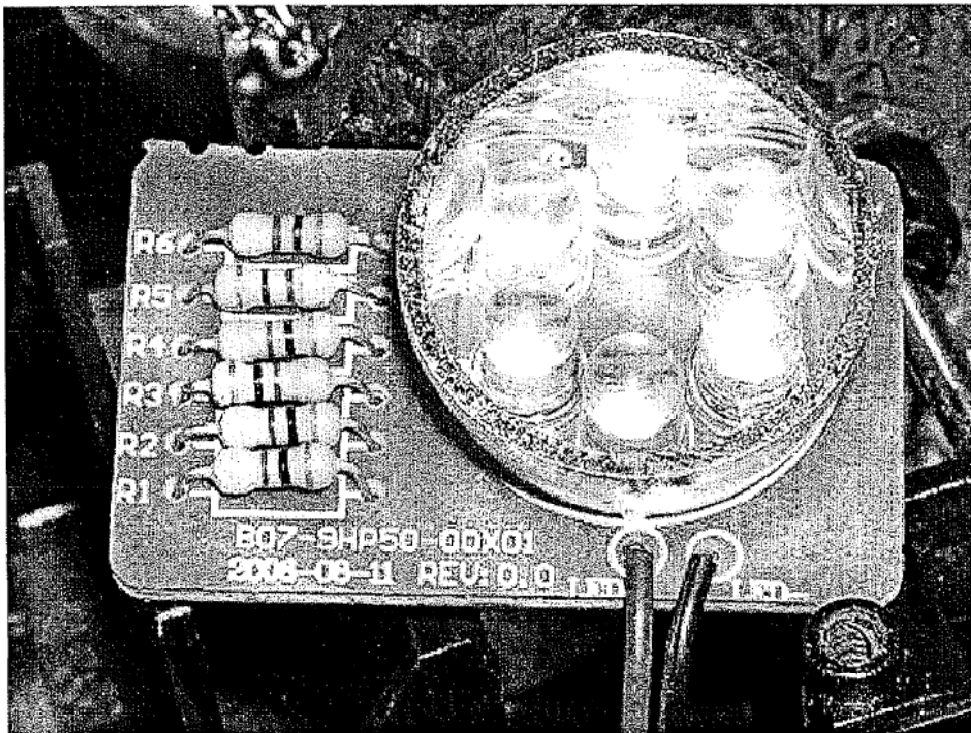
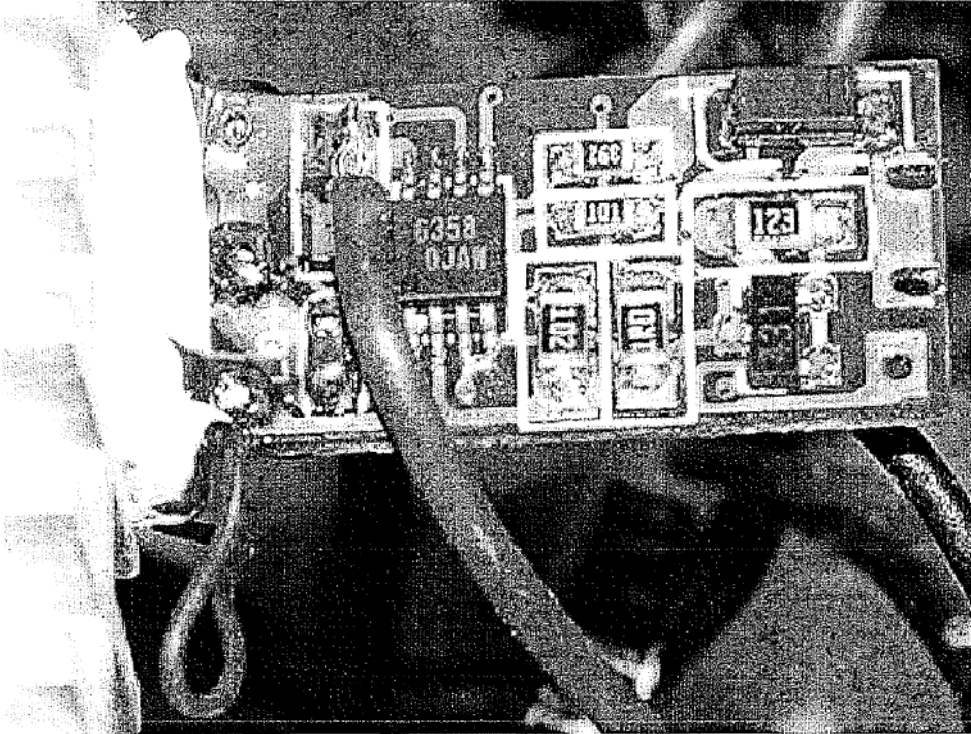
No observable change

EUT stopped operation and could be reset by operator at _____ %U_T Test Level.

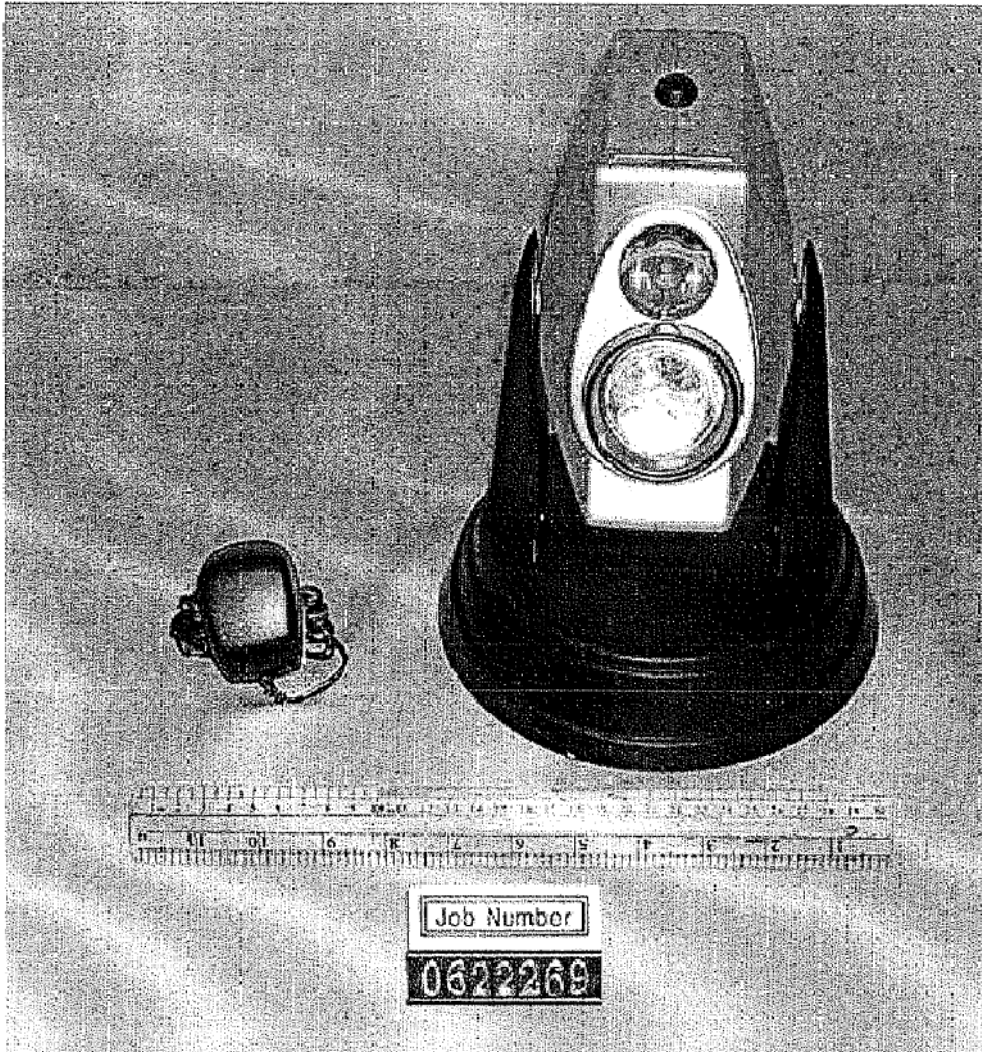
EUT was in abnormal operation:
- operation mode was change from _____ to _____ at _____ %U_T Test %U_T Test Level.

EUT was switched off for a moment after the voltage dips and voltage interruptions were applied. However, it can self-recover after a few seconds without any manual reset.

**Appendix
Photos of EUT**



**Appendix
Photos of EUT**



--- END ---

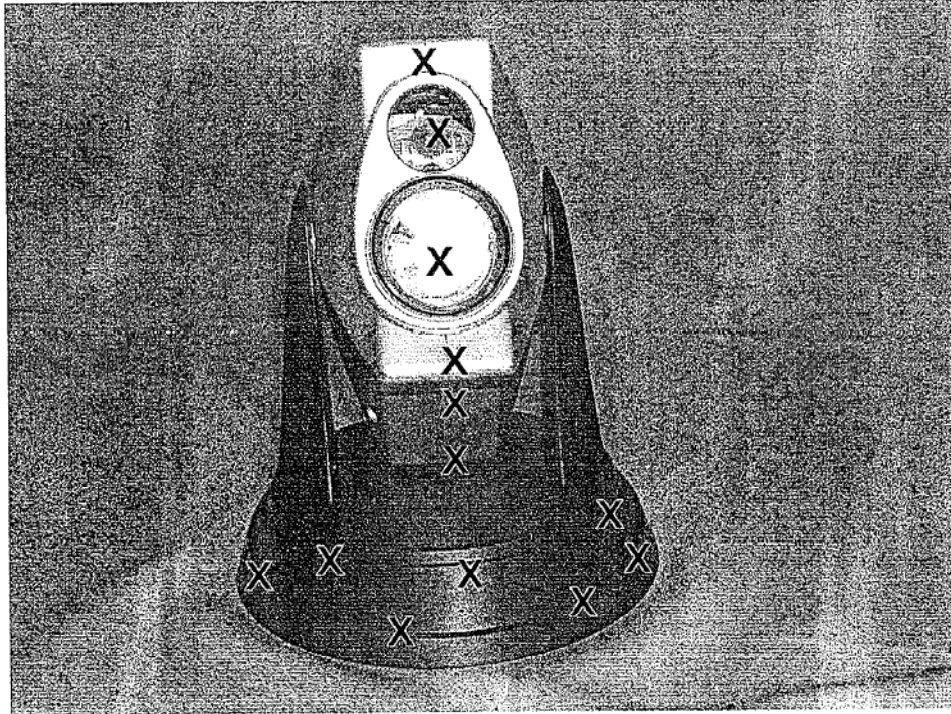


Figure 1

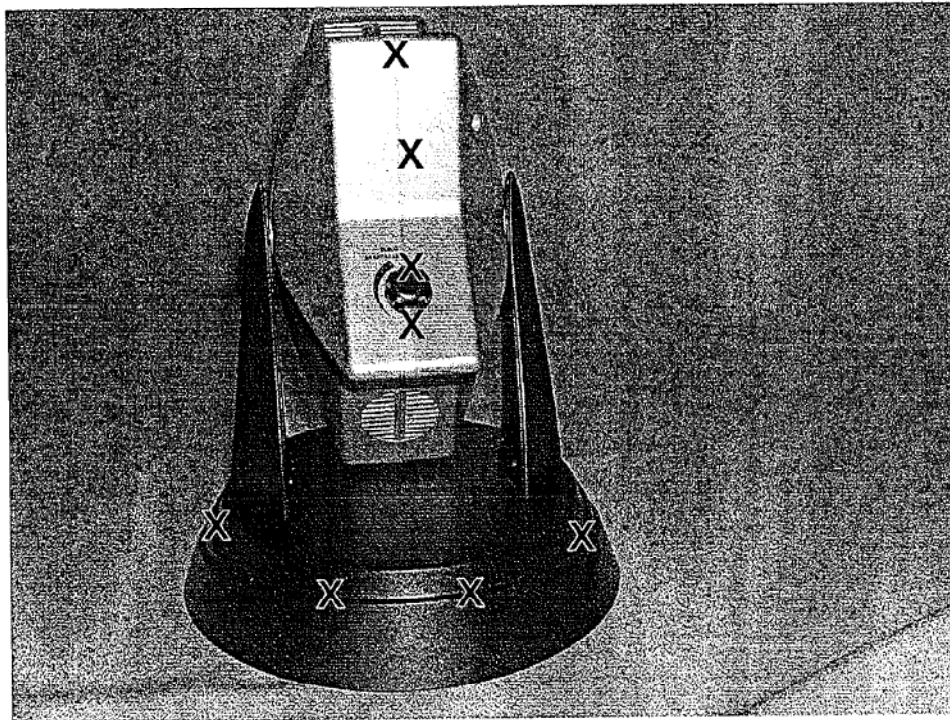


Figure 2

Ctrl. No.: 7.3

Direct Air Discharge - **X**
Direct Contact Discharge - N/A

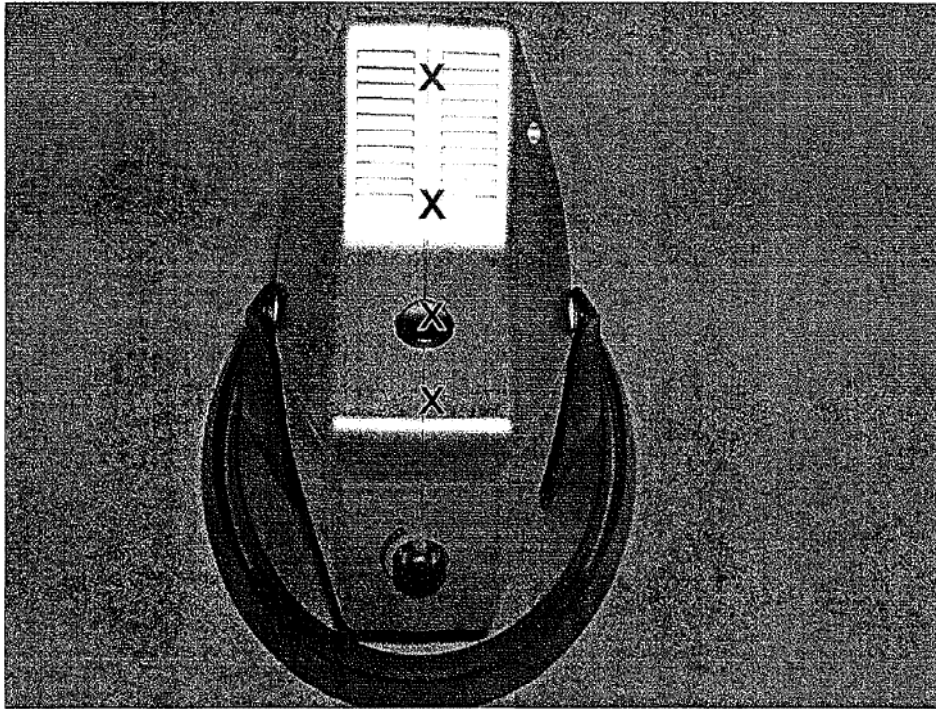


Figure 3

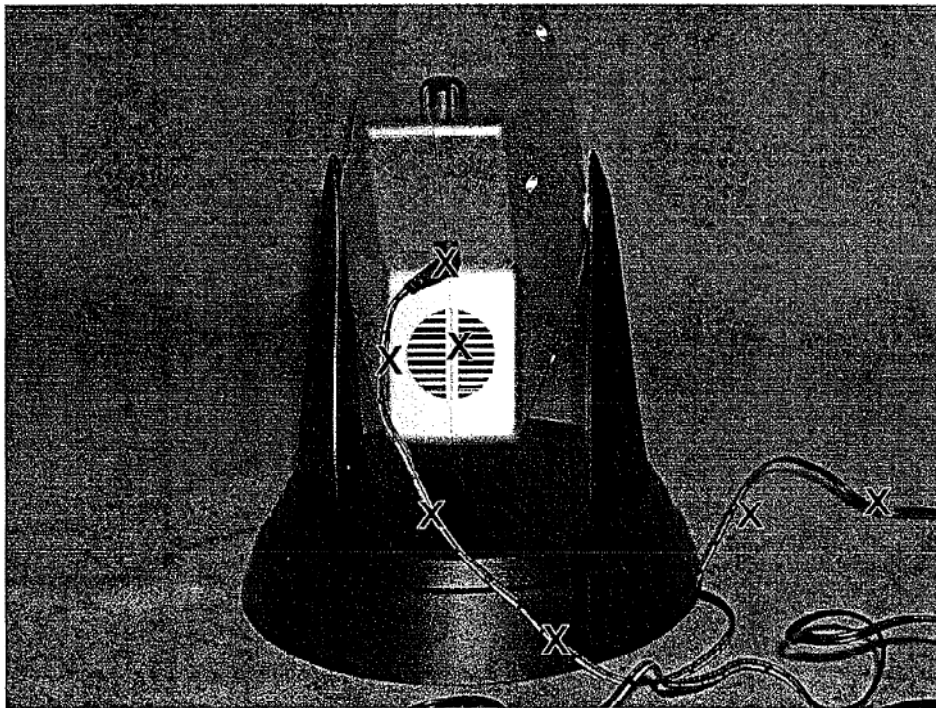


Figure 4

Ctrl. No.: 7.3

Direct Air Discharge - **X**
Direct Contact Discharge - N/A

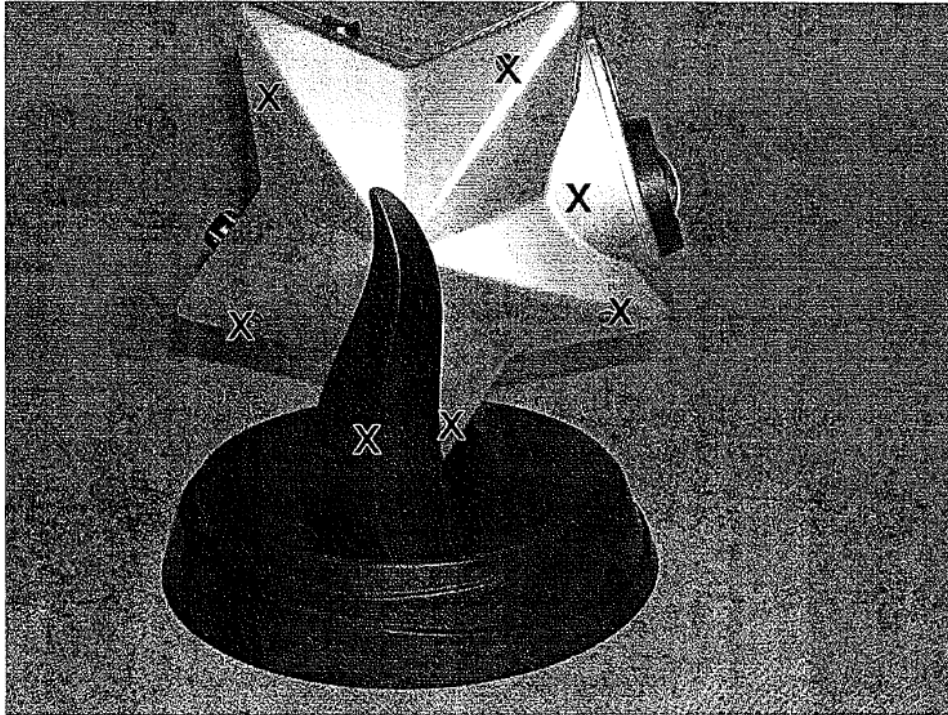


Figure 5

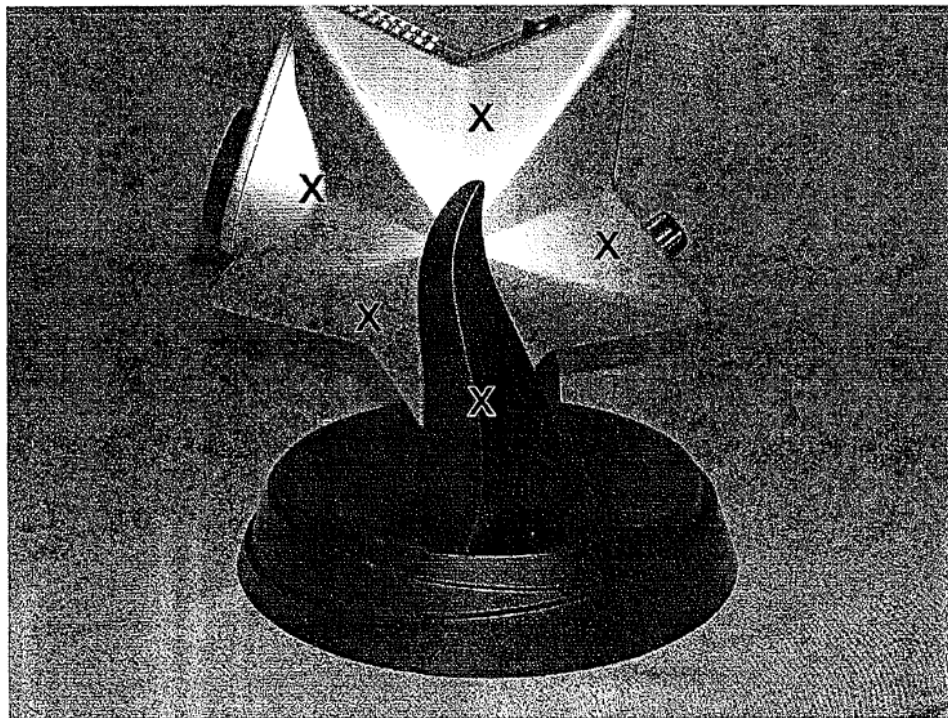


Figure 6

Ctrl. No.: 7.3

Direct Air Discharge - **X**
Direct Contact Discharge - N/A

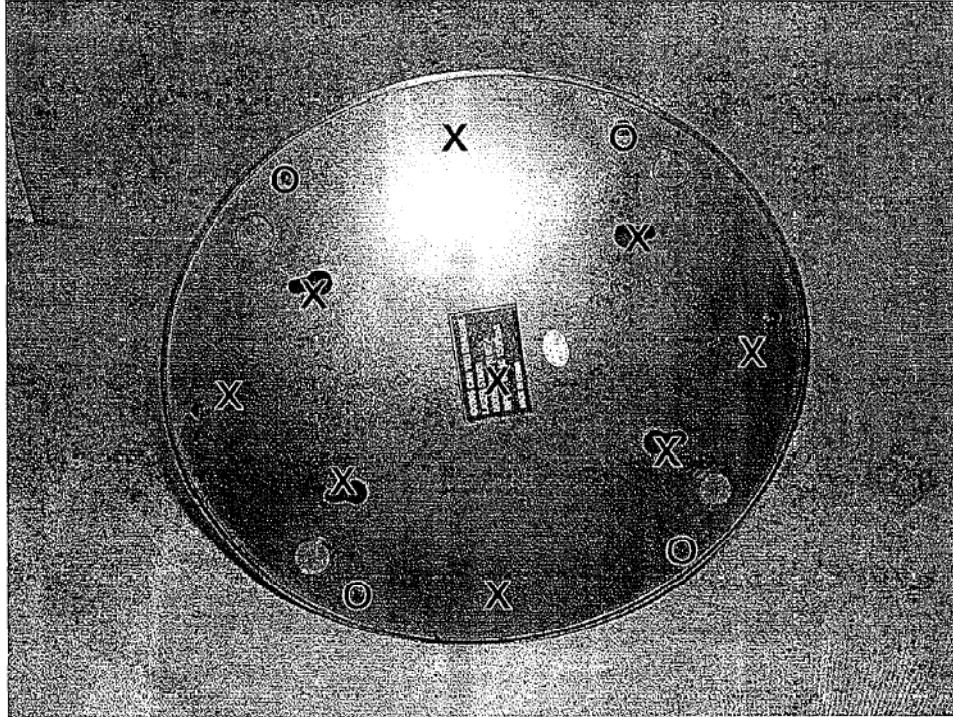


Figure 7

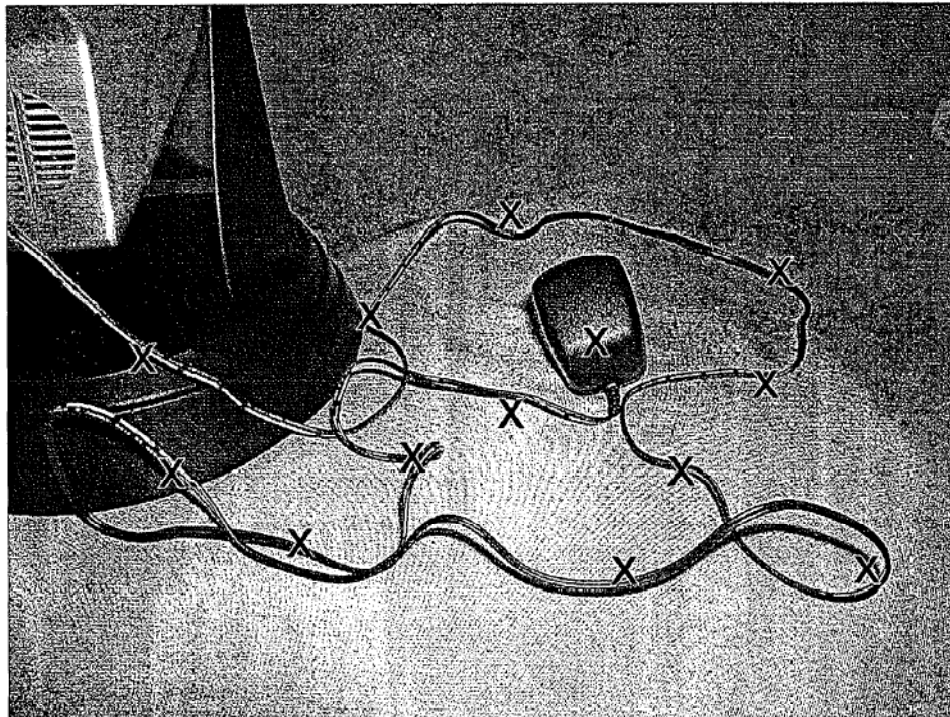


Figure 8

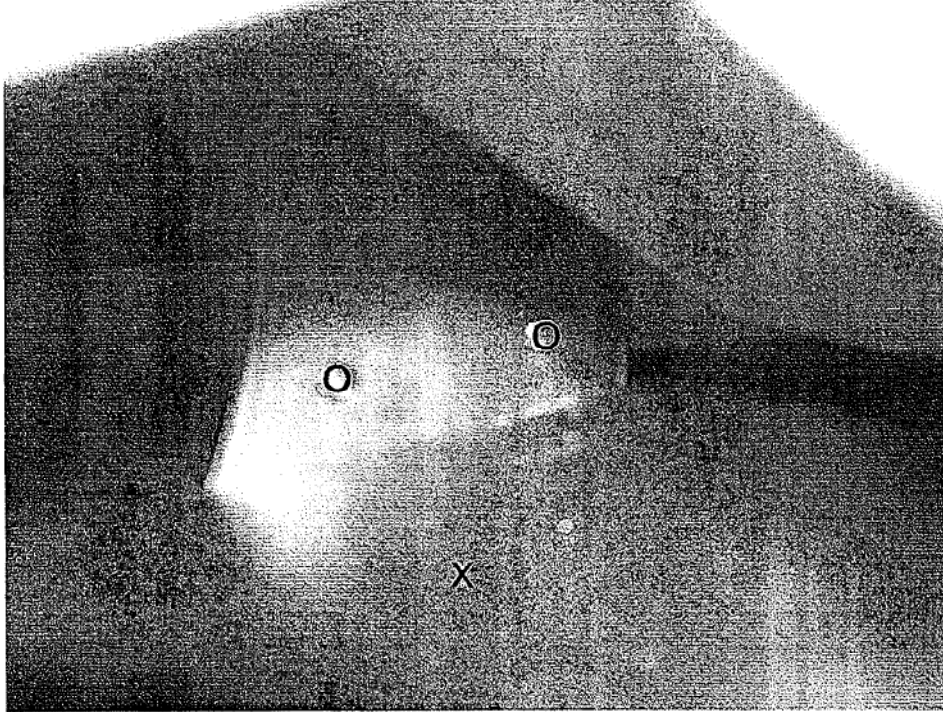


Figure 9

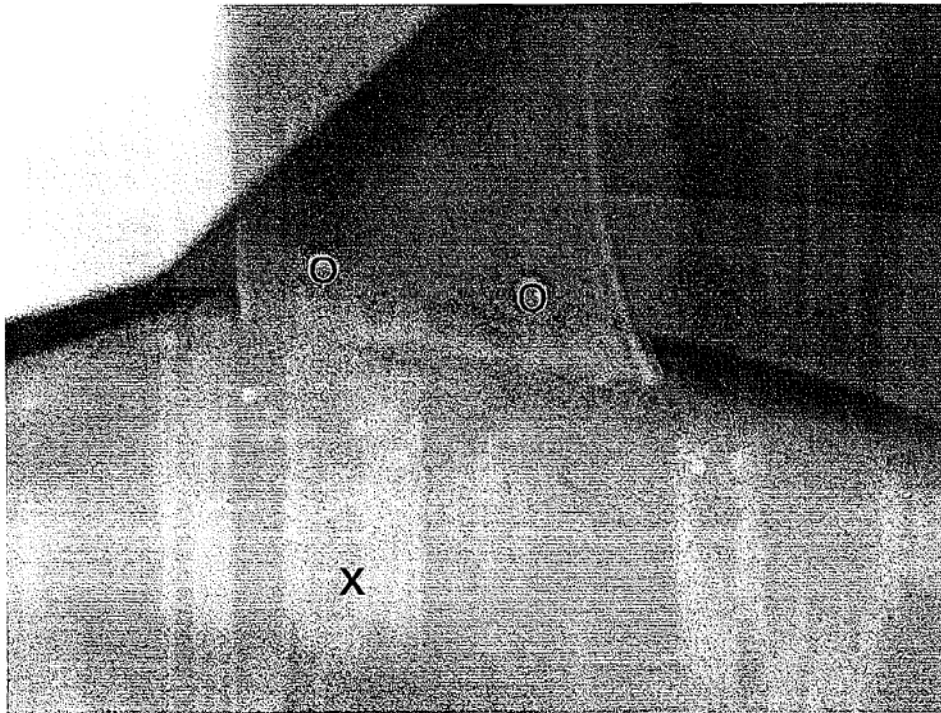


Figure 10

Ctrl. No.: 7.3

Direct Air Discharge - X
Direct Contact Discharge - O

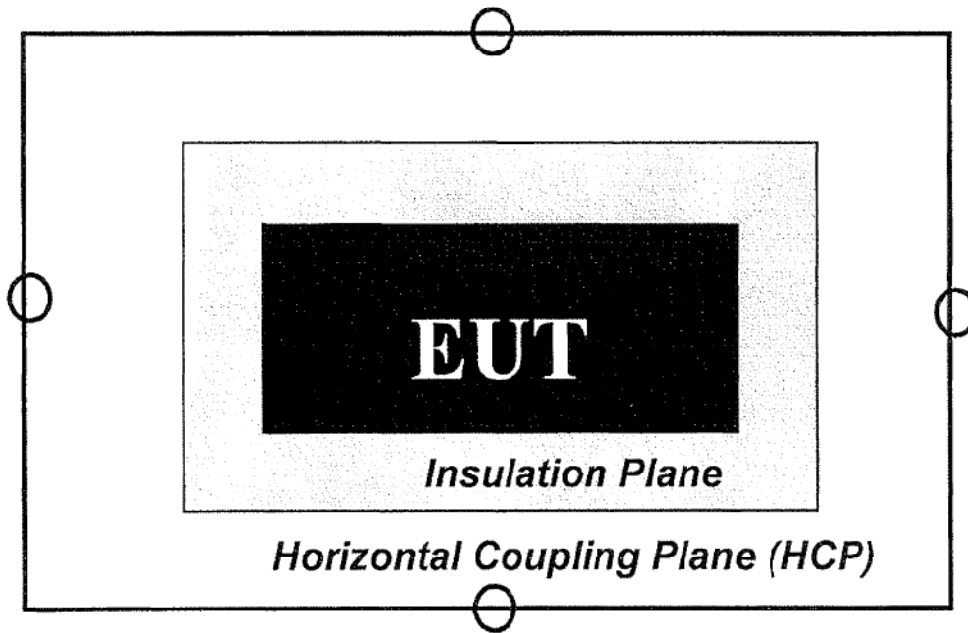


Figure 11

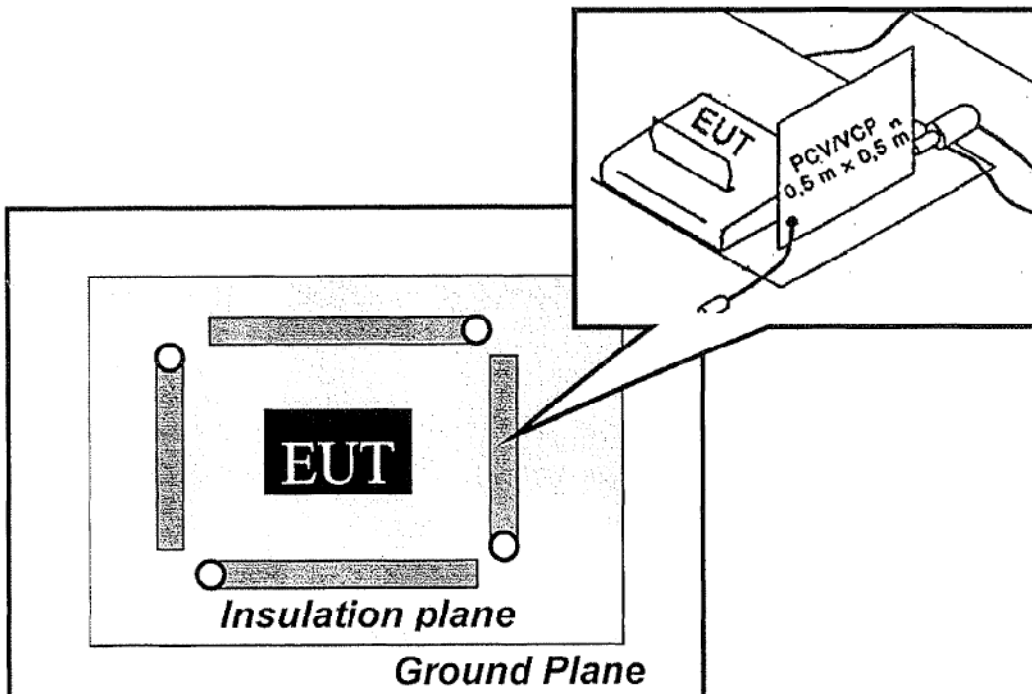


Figure 12

Unit 1715-18, 17/F., co-operation Square, 8
Lam Look Street, Kowloon Bay, Hong Kong

**HPI
HING KONG LIMITED**

Date : 7 February 2007

Report Number : HPILS011

Product Description: Laser Stars

Item Number: 5105

Item Number	Sample Name	Description	Cr (ppm)	Cd (ppm)	Pb (ppm)	Hg (ppm)	Br (ppm)	Conclusion
1(a)	lw-Item 1 GREEN COLOR LASER MOLD (GL-D010) 3V 300mA Red wire (epidermis)	Plastic	ND	ND	ND	ND	ND	Pass
1(b)	lw-Item 1 GREEN COLOR LASER MOLD (GL-D010) 3V 300mA Red wire (copper wire)	Metal	ND	ND	ND	ND	---	Pass
1(c)	lw-Item 1 GREEN COLOR LASER MOLD (GL-D010) 3V 300mA Red wire (weld foot)	Weld	ND	ND	175.8	ND	---	Pass
1(d)	lw-Item 1 GREEN COLOR LASER MOLD (GL-D010) 3V 300mA Black wire (weld foot)	Weld	ND	ND	166.8	ND	---	Pass
1(e)	lw-Item 1 GREEN COLOR LASER MOLD (GL-D010) 3V 300mA Black wire (copper wire)	Metal	ND	ND	ND	ND	---	Pass
1(f)	lw-Item 1 GREEN COLOR LASER MOLD (GL-D010) 3V 300mA Black wire (epidermis)	Plastic	ND	ND	ND	ND	ND	Pass
1(g)	lw-Item 1 GREEN COLOR LASER MOLD (GL-D010) 3V 300mA Laser lamp (weld foot)	Weld	ND	2.6	175.7	ND	---	Pass
1(h)	lw-Item 1 GREEN COLOR LASER MOLD (GL-D010) 3V 300mA Laser lamp (body)	Plastic	24.1	ND	ND	ND	187.1	Pass
1(i)	lw-Item 1 GREEN COLOR LASER MOLD (GL-D010) 3V 300mA Glass flat	Glass	137.8	ND	640.7	ND	ND	Pass
Item Number	Sample Name	Description	Cr (ppm)	Cd (ppm)	Pb (ppm)	Hg (ppm)	Br (ppm)	Conclusion
1(j)	lw-Item 1 GREEN COLOR LASER MOLD (GL-D010) 3V 300mA Mucilage	Plastic	ND	ND	ND	ND	ND	Pass
1(k)	lw-Item 1 GREEN COLOR LASER MOLD (GL-D010) 3V 300mA Outside copper shell	Metal	ND	ND	23282.4	ND	---	#

1(l)	lw-Item 1 GREEN COLOR LASER MOLD (GL-D010) 3V 300mA Machine board weld plate	Weld	ND	7.5	162.8	ND	---	Pass
1(m)	lw-Item 1 GREEN COLOR LASER MOLD (GL-D010) 3V 300mA Machine board essential	Plastic	ND	ND	7.4	6	20460.3	*
1(n)	lw-Item 1 GREEN COLOR LASER MOLD (GL-D010) 3V 300mA IC (body)	Plastic	ND	ND	ND	10.5	5095.4	*
1(o)	lw-Item 1 GREEN COLOR LASER MOLD(GL-D010) 3V 300mA IC (weld foot)	Weld	ND	2.1	151.9	ND	---	Pass
1(p)	lw-Item 1 GREEN COLOR LASER MOLD (GL-D010) 3V 300mA Paste flat resistance (weld foot)	Weld	ND	ND	613.6	ND	---	Pass
1(q)	lw-Item 1 GREEN COLOR LASER MOLD (GL-D010) 3V 300mA Paste flat resistance (body)	Plastic	ND	ND	64.8	ND	ND	Pass
1(r)	lw-Item 1 GREEN COLOR LASER MOLD(GL-D010)3V 300mA Diode(body)	Plastic	ND	ND	ND	ND	5465.4	*
1(s)	lw-Item 1 GREEN COLOR LASER MOLD (GL-D010) 3V 300mA Diode(Weld foot)	Weld	ND	3.6	ND	ND	---	Pass
1(t)	lw-Item 1 GREEN COLOR LASER MOLD(GL-D010) 3V 300mA Triode(Weld foot)	Weld	ND	8.6	164.3	ND	---	Pass
1(u)	lw-Item 1 GREEN COLOR LASER MOLD(GL-D010) 3V 300mA Triode(body)	Plastic	ND	ND	ND	ND	8675.5	*
2(a)	lw-Item 2 FAN DC 6V 1.2W Black plastic cement	Plastic	83,7	ND	ND	ND	4643.7	*
2(b)	lw-Item 2 FAN DC 6V 1.2W PCB board essence	Plastic	ND	ND	435.2	6.1	87.4	Pass
2(c)	lw-Item 2 FAN DC 6V 1.2W Famous brand pastes paper	Plastic	ND	ND	ND	ND	ND	Pass
2(d)	lw-Item 2 FAN DC 6V 1.2W PCB IC(Weld foot)	Weld	ND	3.6	ND	ND	---	Pass
2(e)	lw-Item 2 FAN DC 6V 1.2W PCB IC(body)	Plastic	38.1	ND	ND	ND	4672	*
Item Number	Sample Name	Description	Cr (ppm)	Cd (ppm)	Pb (ppm)	Hg (ppm)	Br (ppm)	Conclusion
2(f)	lw-Item 2 FAN DC 6V 1.2W Red wire (Epidermis)	Plastic	ND	ND	ND	ND	2.3	Pass
2(g)	lw-Item 2 FAN DC 6V 1.2W Red wire (Copper wire)	Metal	ND	ND	ND	ND	---	Pass
2(h)	lw-Item 2 FAN DC 6V 1.2W Red wire (Weld foot)	Weld	ND	ND	ND	ND	---	Pass
2(i)	lw-Item 2 FAN DC 6V 1.2W Black wire (Weld foot)	Weld	ND	ND	ND	ND	---	Pass
2(j)	lw-Item 2 FAN DC 6V 1.2W Black wire (Epidermis)	Plastic	ND	ND	ND	ND	ND	Pass
2(k)	lw-Item 2 FAN DC 6V 1.2W Black wire (Copper wire)	Metal	ND	ND	ND	ND	---	Pass
2(l)	lw-Item 2 FAN DC 6V 1.2W Motor (Outside iron basket)	Metal	ND	ND	22.1	ND	---	Pass
2(m)	lw-Item 2 FAN DC 6V 1.2W Motor (Magnet)	Metal	ND	ND	2.3	ND	---	Pass
2(n)	lw-Item 2 FAN DC 6V 1.2W Motor (Iron flat spins)	Metal	ND	ND	ND	ND	---	Pass
2(o)	lw-Item 2 FAN DC 6V 1.2W Motor (Iron is enclosed)	Metal	ND	ND	7.1	ND	---	Pass
2(p)	lw-Item 2 FAN DC 6V 1.2W Motor (Iron needle)	Metal	135787.2	ND	ND	ND	---	++

2(q)	lw-Item 2 FAN DC 6V 1.2W Motor (Copper wire)	Metal	ND	ND	ND	ND	---	Pass
2(r)	lw-Item 2 FAN DC 6V 1.2WPCB board (Copper platinum)	Metal	ND	ND	ND	ND	---	Pass
2(s)	lw-Item 2 FAN DC 6V 1.2WPCB board (Hand scolding tin is counted)	Weld	ND	ND	234	ND	---	Pass
2(t)	lw-Item 2 FAN DC 6V1.2W Motor(White yellow black glue is enclosed)	Plastic	ND	ND	ND	ND	ND	Pass
3(a)	lw-Item 3 MOTOR AC 6V 50-60Hz 4W (Outside iron covers)	Metal	ND	ND	ND	ND	---	Pass
3(b)	lw-Item 3 MOTOR AC 6V 50-60Hz 4W (Outside iron shell)	Metal	ND	ND	8.9	ND	---	Pass
3(c)	lw-Item 3 MOTOR AC 6V 50-60Hz 4W (Iron runner shaft)	Metal	ND	ND	ND	ND	---	Pass
3(d)	lw-Item 3 MOTOR AC 6V 50-60Hz 4W (Copper wire)	Metal	ND	ND	ND	ND	---	Pass
3(e)	lw-Item 3 MOTOR AC 6V 50-60Hz 4W (Famous brand pastes paper)	Plastic	25.6	ND	ND	ND	26.3	Pass
3(f)	lw-Item 3 MOTOR AC 6V 50-60Hz 4W (Blue to stick paper)	Plastic	6.6	ND	ND	6	171.8	Pass
3(g)	lw-Item 3 MOTOR AC 6V 50-60Hz 4W Black wire (Epidermis)	Plastic	ND	ND	9.7	ND	15.1	Pass
3(h)	lw-Item 3 MOTOR AC 6V 50-60Hz 4W Black wire (Copper wire)	Metal	ND	ND	ND	ND	---	Pass
3(i)	lw-Item 3 MOTOR AC 6V 50-60Hz 4W Black wire (Weld foot)	Weld	ND	ND	239.5	ND	---	Pass
Item Number	Sample Name	Description	Cr (ppm)	Cd (ppm)	Pb (ppm)	Hg (ppm)	Br (ppm)	Conclusion
3(j)	lw-Item 3 MOTOR AC 6V 50-60Hz 4W White casing pipe	Plastic	7	ND	ND	ND	ND	Pass
3(k)	lw-Item 3 MOTOR AC 6V 50-60Hz 4W White plastic cement	Plastic	8.6	ND	ND	5.6	24109.2	*
3(l)	lw-Item 3 MOTOR AC 6V 50-60Hz 4W The white runner shaft of plastic cement	Plastic	10	ND	ND	ND	ND	Pass
3(m)	lw-Item 3 MOTOR AC 6V 50-60Hz 4W Grey liner	Plastic	8.8	ND	ND	ND	ND	Pass
3(n)	lw-Item 3 MOTOR AC 6V 50-60Hz 4W Magnet (White runner shaft)	Plastic	184.6	ND	ND	ND	ND	Pass
3(o)	lw-Item 3 MOTOR AC 6V 50-60Hz 4W The core needle of runner shaft	Metal	35.2	ND	17.1	ND	---	Pass
3(p)	lw-Item 3 MOTOR AC 6V 50-60Hz 4W Support flat	Metal	ND	ND	ND	ND	---	Pass
3(q)	lw-Item 3 MOTOR AC 6V 50-60Hz 4W Magnet	Metal	ND	ND	ND	ND	---	Pass
3(r)	lw-Item 3 MOTOR AC 6V 50-60Hz 4W Magnet liner	Metal	ND	ND	ND	ND	---	Pass
4(a)	lw-Item 4 DOUBLE BRANCH LINE #26X170MM (3+3) RED-BLACK(Epidermis)	Plastic	ND	ND	ND	11.9	3.5	Pass
4(b)	lw-Item 4 DOUBLE BRANCH LINE #26X170MM(3+3)RED-BLACK(Copper wire)	Metal	ND	ND	ND	ND	---	Pass
4(c)	lw-Item 4 DOUBLE BRANCH LINE #26X170MM (3+3) RED-BLACK(Weld foot)	Weld	ND	ND	186.7	ND	---	Pass
5(a)	lw-Item 5 WIRE #22X80MM RED (5+5)UL 1007(Weld foot)	Weld	ND	ND	ND	ND	---	Pass
5(b)	lw-Item 5 WIRE #22X80MM RED (5+5)UL 1007(Copper wire)	Metal	ND	ND	ND	ND	---	Pass
5(c)	lw-Item 5 WIRE #22X80MM RED (5+5)UL 1007(Epidermis)	Plastic	ND	ND	ND	ND	ND	Pass
6(a)	lw-Item 6 ROTATE AXIS HP50 3X80MM	Metal	ND	ND	ND	ND	---	Pass
7(a)	lw-Item 7 ROTATE AXIS HP50 3X66.3MM	Metal	ND	ND	24.9	ND	---	Pass

8(a)	lw-Item 8 ROTATE AXIS HP50 3X29.8MM	Metal	ND	ND	ND	ND	---	Pass
9(a)	lw-Item 9 ROTATE AXIS HP50 3X14.8MM	Metal	ND	ND	10	ND	---	Pass
10(a)	lw-Item 10 GREEN LASER TUBE PRESSURE PLATE HP50 32X0.8X18MM	Metal	ND	ND	4.5	ND	---	Pass
11(a)	lw-Item 11 GREEN LASER TUBE ALUMINUM HOLDER HP50 49X15X29MM	Metal	ND	ND	3.1	ND	---	Pass
12(a)	lw-Item 12 SCREW NUT M3 SILVER 0.5X6X3MM	Metal	ND	ND	5.7	ND	---	Pass
Item Number	Sample Name	Description	Cr (ppm)	Cd (ppm)	Pb (ppm)	Hg (ppm)	Br (ppm)	Conclusion
13(a)	lw-Item 13 SCREW 2.3X8.0PB (NI) D=3.7	Metal	ND	ND	8.7	ND	---	Pass
14(a)	lw-Item 14 SCREW 2.6X6.0KB (NI) D=5	Metal	ND	ND	ND	ND	---	Pass
15(a)	lw-Item 15 SCREW 2.6X6.0PB (NI) D=-4.1	Metal	ND	ND	17	ND	---	Pass
16(a)	lw-Item 16 SCREW 3.0X8.0PB (NI) D=5.1	Metal	ND	ND	ND	ND	---	Pass
17(a)	lw-Item 17 SCREW 3.0X10PWA (NI) D=10	Metal	ND	ND	ND	ND	---	Pass
18(a)	lw-Item 18 SCREW 3.0X10PB (NI) D=5.1	Metal	ND	ND	ND	ND	---	Pass
19(a)	lw-Item 19 SCREW 3.0X15PA (NI) D=5.1	Metal	ND	ND	4	ND	---	Pass
20(a)	lw-Item 20 SCREW 3.0X25PA (NI) D=5.1	Metal	ND	ND	14.3	ND	---	Pass
21(a)	lw-Item 21 SCREW 3.0X12PM (NI) D=5.1	Metal	ND	ND	3.2	ND	---	Pass
22(a)	lw-Item 22 SCREW 3.0X14PWM (NI) D=7.0	Metal	ND	ND	ND	ND	---	Pass
23(a)	lw-Item 23 SCREW 3.0X8.0PB (BLACK) D=5.1	Metal	ND	ND	7.8	ND	---	Pass
24(a)	lw-Item 24 SCREW 3.0X10PB (BLACK) D=8	Metal	ND	ND	ND	ND	---	Pass
25(a)	lw-Item 25 SCREW 3.0X15PA (BLACK) D=5.1	Metal	ND	ND	ND	ND	---	Pass
26(a)	lw-Item 26 SQUARE SINGLE SURFACE DIAMOND VEIN SHEET GLASS TRANSPARENT 53X5.0X30	Glass	ND	ND	ND	ND	ND	Pass
27(a)	lw-Item 27 CIRCLE SINGLE SURFACE DIAMOND VEIN SHEET GLASS TRANSPARENT D=60 T=5.0	Glass	11.9	ND	ND	ND	ND	Pass
28(a)	lw-Item 28 SEMICIRCLE GLASS MIRROR TRANSPARENT D=49X22MM	Glass	ND	11.6	29.9	ND	48	Pass
29(a)	lw-Item 29 HP50 LASER POWER BROAD MODULE (Body)	Plastic	11.4	ND	ND	10.7	8.2	Pass
29(b)	lw-Item 29 HP50 LASER POWER BROAD MODULE (Copper platinum)	Metal	ND	ND	ND	ND	---	Pass
30(a)	lw-Item 30 POTTERY ELECTRIC CAPACITY 0.1UF 25V +80-20% D=5MM(Body)	Plastic	ND	ND	ND	ND	ND	Pass
30(b)	lw-Item 30 POTTERY ELECTRIC CAPACITY 0.1UF 25V +80-20% D=5MM(Weld foot)	Weld	ND	2.4	ND	ND	---	Pass

Item Number	Sample Name	Description	Cr (ppm)	Cd (ppm)	Pb (ppm)	Hg (ppm)	Br (ppm)	Conclusion
30(c)	lw-Item 30 POTTERY ELECTRIC CAPACITY 0.1UF 25V +80-20% D=5MM(Epidermis)	Plastic	ND	ND	18.9	ND	14.6	Pass
31(a)	lw-Item 31 ELECTROLYSIS ELECTRIC CAPACITY 10UF 16V +80-20% 5X11MM(Weld foot)	Weld	ND	3.5	125.9	ND	---	Pass
31(b)	lw-Item 31 ELECTROLYSIS ELECTRIC CAPACITY 10UF 16V +80-20% 5X11MM(Epidermis)	Plastic	ND	ND	ND	ND	22.6	Pass
31(c)	lw-Item 31 ELECTROLYSIS ELECTRIC CAPACITY 10UF 16V +80-20% 5X11MM(Body)	Plastic	ND	ND	15.1	ND	14.9	Pass
32(a)	lw-Item 32 ELECTROLYSIS ELECTRIC CAPACITY 220UF 16V +80-20% 13X21MM(Body)	Plastic	ND	ND	ND	ND	ND	Pass
32(b)	lw-Item 32 ELECTROLYSIS ELECTRIC CAPACITY 220UF 16V +80-20% 13X21MM(Epidermis)	Plastic	ND	ND	ND	ND	ND	Pass
32(c)	lw-Item 32 ELECTROLYSIS ELECTRIC CAPACITY 220UF 16V +80-20% 13X21MM(Weld foot)	Weld	ND	ND	127.8	ND	---	Pass
33(a)	lw-Item 33 PCB HP50 POWER BROAD 1.6 94HB (Body)	Plastic	ND	ND	ND	ND	8.9	Pass
33(b)	lw-Item 33 PCB HP50 POWER BROAD 1.6 94HB (Copper platinum)	Metal	ND	ND	8.5	ND	---	Pass
34(a)	lw-Item34AGGREGATION CIRCUIT LM317T NATIONAL ROW INSERT STYLE(Body)	Plastic	12.4	ND	ND	ND	6705.4	*
34(b)	lw-Item 34 AGGREGATION CIRCUIT LM317T NATIONAL ROW INSERT STYLE(Weld foot)	Weld	ND	ND	155.9	ND	---	Pass
35(a)	lw-Item 35 ROHS CARBON MEMBRANE RESISTANCE 330 Ω (Weld foot)	Weld	ND	ND	ND	ND	---	Pass
35(b)	lw-Item 35 ROHS CARBON MEMBRANE RESISTANCE 330 Ω (Body)	Plastic	114.1	ND	112.6	ND	ND	Pass
36(a)	lw-Item 36 ROHS CARBON MEMBRANE RESISTANCE 470 Ω (Body)	Plastic	ND	ND	170.6	ND	ND	Pass
36(b)	lw-Item 36 ROHS CARBON MEMBRANE RESISTANCE 470 Ω (Weld foot)	Weld	ND	ND	139.1	ND	---	Pass

Item Number	Sample Name	Description	Cr (ppm)	Cd (ppm)	Pb (ppm)	Hg (ppm)	Br (ppm)	Conclusion
37(a)	lw-Item 37 ROHS CARBON MEMBRANE RESISTANCE 560 Ω (Weld foot)	Weld	ND	ND	148	ND	---	Pass
37(b)	lw-Item 37 ROHS CARBON MEMBRANE RESISTANCE 560 Ω (Body)	Plastic	287.4	ND	84.3	ND	ND	Pass
38(a)	lw-Item 38 POTENTIAL IMPLEMENT B1K 12MM RUBBER HANDLE L=20MM (Black to stick handle)	Plastic	14.7	ND	ND	ND	ND	Pass
38(b)	lw-Item 38 POTENTIAL IMPLEMENT B1K 12MM RUBBER HANDLE L=20MM PCB board (body)	Plastic	10.8	ND	ND	ND	63.9	Pass
38(c)	lw-Item 38 POTENTIAL IMPLEMENT B1K 12MM RUBBER HANDLE L=20MM(Flat slides)	Metal	ND	ND	ND	ND	---	Pass
38(a) 38(b)	lw-Item 38 POTENTIAL IMPLEMENT B1K 12MM RUBBER HANDLE L=20MM(Outside iron basket)	Metal Metal	1074.8 1974.0	ND ND	ND ND	ND ND	---	++ ++
38(e)	lw-Item 38 POTENTIAL IMPLEMENT B1K 12MM RUBBER HANDLE L=20MM(Weld foot)	Weld	ND	ND	ND	ND	---	Pass
39(a)	lw-Item 39 ROHS DIODE IN4001(Weld foot)	Weld	ND	ND	ND	ND	---	Pass
39(b)	lw-Item 39 ROHS DIODE IN4001(Body)	Plastic	ND	ND	22.3	ND	5392.6	*
40(a)	lw-Item 40 HEAT SINK FLAKE HP50 44X35X26.5MM (Body)	Metal	ND	ND	50.9	ND	---	Pass
41(a)	lw-Item 41 SCREW NUT M3 SILVER 0.5X6X3MM (Body)	Metal	ND	ND	ND	ND	---	Pass
42(a)	lw-Item 42 SCREW 3.0X10PM (NI) D=5.1 (Body)	Metal	ND	ND	8.4	ND	---	Pass
43(a)	lw-Item 43 ISOLATION MESON 6X4X3MM	Plastic	ND	4	ND	ND	ND	Pass
44(a)	lw-Item 44 MICA SHEET 18X13MM T=0.2MM HOLE (3.6MM)	Plastic	ND	ND	4.3	ND	ND	Pass
45(a)	lw-Item 45 LASER LIGHT DC JACK BOARD MODULE(Body)	Plastic	ND	ND	ND	ND	13	Pass
45(b)	lw-Item 45 LASER LIGHT DC JACK BOARD MODULE(Copper platinum)	Metal	ND	26	ND	ND	---	Pass
46(a)	lw-Item 46 PCB HP50 DC JACK BOARD 1.6 94HB(Copper platinum)	Metal	ND	ND	ND	ND	---	Pass
46(b)	lw-Item 46 PCB HP50 DC JACK BOARD 1.6 94HB(Body)	Plastic	ND	ND	ND	ND	8.1	Pass
47(a)	lw-Item 47 AC.DC SOCKET DC-208-GP φ 2.5(Black plastic cement)	Plastic	ND	ND	ND	ND	ND	Pass

Item Number	Sample Name	Description	Cr (ppm)	Cd (ppm)	Pb (ppm)	Hg (ppm)	Br (ppm)	Conclusion
47(b)	lw-Item 47 AC.DC SOCKET DC-208-GP ϕ 2.5(Weld foot)	Weld	ND	ND	144.5	ND	---	Pass
47(c)	lw-Item 47 AC.DC SOCKET DC-208-GP ϕ 2.5(Copper core needle)	Metal	ND	ND	9610.8	ND	---	+
48(a)	lw-Item 48 LASER LIGHT LED BORAD MODULE(Copper platinum)	Metal	ND	ND	ND	ND	---	Pass
48(b)	lw-Item 48 LASER LIGHT LED BORAD MODULE(Body)	Plastic	ND	ND	ND	2.9	8.5	Pass
49(a)	lw-Item 49 LED LIGHT BOARD 1.6 94HB (Body)	Plastic	4.1	ND	ND	ND	13.3	Pass
49(b)	lw-Item 49 LED LIGHT BOARD 1.6 94HB (Copper platinum)	Metal	ND	ND	ND	ND	---	Pass
50(a)	lw-Item 50 CARBON MEMBRANE RESISTANCE 47 Ω (Weld foot)	Weld	ND	4.4	172.4	ND	---	Pass
50(b)	lw-Item 50 CARBON MEMBRANE RESISTANCE 47 Ω (Body)	Plastic	157.4	ND	62.8	ND	ND	Pass
51(a)	lw-Item 51 LED5MM TRANSPARENT BLUE CIRCLE BRIGHT HDL-5B4SC-N463(Body)	Plastic	11.2	ND	ND	ND	1697.7	*
51(b)	lw-Item 51 LED5MM TRANSPARENT BLUE CIRCLE BRIGHT HDL-5B4SC-N463 (Weld foot)	Weld	ND	7.8	137.7	ND	---	Pass
52(a)	lw-Item 52 POM PLASTIC RAW MATERIALS KEPITAL F20-03	Plastic	3.8	ND	ND	ND	ND	Pass
53(a)	lw-Item 53 ABS PLASTIC RAW MATERIALS	Plastic	7	2.4	ND	ND	ND	Pass
54(a)	lw-Item 54 EIGHT POINT CANDLE FIRE FLAKE HP50 TRANSPARENT D=48 T=0.6MM	Plastic	9	4.5	ND	ND	5.5	Pass
55(a)	lw-Item 55 CIRCLE PC LENS HP50 TRANSPARENT D=38 T=1.0MM	Plastic	ND	ND	ND	ND	6.1	Pass

56(a)	lw-Item 56 POWER ON.OFF KCD1-101C BLACK(Weld foot)	Weld	ND	ND	422	ND	---	Pass
56(b)	lw-Item 56 POWER ON.OFF KCD1-101C BLACK(Black plastic cement)	Plastic	3	ND	ND	19.8	27221.9	*
56(c)	lw-Item 56 POWER ON.OFF KCD1-101C BLACK(Shell fragment)		ND	ND	ND	ND	---	Pass
57(a)	lw-Item 57 HP50 LASER LIGHT PLASTIC SET 8SETS MOLD 29PIECES (Plastic cement)	Plastic	8.4	ND	ND	ND	12.3	Pass
57(b)	lw-Item 57 HP50 LASER LIGHT PLASTIC SET 8SETS MOLD 29PIECES (Silk is printed)	Plastic	ND	ND	3.5	ND	ND	Pass
Item Number	Sample Name	Description	Cr (ppm)	Cd (ppm)	Pb (ppm)	Hg (ppm)	Br (ppm)	Conclusion
57(c)	lw-Item 57 HP50 LASER LIGHT PLASTIC SET 8SETS MOLD 29PIECES (Fuel injection)	Plastic	47.5	ND	ND	2.9	79.7	Pass
58(a)	lw-Item 58 WHITE OLEIN HP30 XYLEM 3301C	Plastic	ND	ND	ND	ND	ND	Pass
59(a)	lw-Item 59 LASER TUBE FILM 5X7MM (CUSTOMER SUPPLY)	Plastic	ND	ND	ND	ND	ND	Pass
60(a)	lw-Item 60 EVA FLAKE 31X6.5X2MM WHITE	Plastic	ND	ND	ND	ND	7.2	Pass
61(a)	lw-Item 61 ROHS RUBBER RING OD=9 ID=6 T=0.8	Plastic	ND	ND	ND	ND	6.9	Pass
62(a)	lw-Item 62 ROHS RUBBER D=12 T=2 SINGLE SURFACE ADHESIVE PAPER BLACK	Plastic	ND	ND	ND	ND	6.5	Pass
63(a)	lw-Item 63 ROHS O STYLE RUBBER OD=20 ID=13 T=1.2MM	Plastic	ND	ND	ND	6.5	6.3	Pass

Pb = Lead Hg = Mercury Cd = Cadmium Cr =Chromium Br = Bromine

Test Requested : Screening test for Cadmium, Lead, Chromium and Bromine (PBBs - Polybrominated biphenyls and PBDEs - Polybrominated dipheylethers) contents.

Test Method : By X-Ray Fluorescence (XRF) Spectrometry

- 1 --- = Not Applicable
- 2 ND = Not Detected, below the detection limit (ppm = mg/kg)
- 3 * = Br is detected above the screening limits, and further chemical tests is suggested; See Remark
 # = Pb is detected above the screening limits, and further chemical tests is suggested; See Remark
 ++ = Cr is detected above the screening limits, and further chemical tests is suggested; See Remark
 + = Exemption item in RoHS; See Remark
- 4 For XRF Screening, the reported Chromium VI result is determined as total chromium, and Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) results are determined as total bromine.

5 Limit of Restriction of Hazardous Substances Directive (RoHS), 2005/618/EC :

Elements	RoHS's Limit (ppm)
Lead (Pb)	1000
Mercury (Hg)	1000
Cadmium (Cd)	100
Chromium VI (CrVI)	1000
Polybrominated Biphenyls (PBBs)	1000
Polybrominated Diphenyl Ethers (PBDEs)	1000

REMARK :

- * Item 1m, 1n, 1r, 1u - Please refer to the attached test report : SGS - GZ0601009941/CHLM
 Item 2a, 2e - Please refer to the attached report : AOV - A06040509L
 Item 3k - Please refer to the attached report : TUV - 143031615001
 Item 34a - Please refer to the attached report : SGS - 2079092/LD
 Item 39b - Please refer to the attached report : SGS- GZSCRO50207982/LP
 Item 51a - Please refer to the attached report : SGS - GZ0605079782/CHEM
 Item 56b - Please refer to the attached report : SGS - SH6067845/CHEM

- # Item 1k - Please refer to the attached test report : SGS - GZ0601009941/CHLM