

EMC VERIFICATION SUMMARY

Report No.: HK09030007-1

Models: PSA-3023,
PSA-3022, PSA-3022A, PSA-3021

Applicant: Perfect Steam Appliances Ltd
Flat G, 10/F.,
Valiant Industrial Centre,
2-12 Au Pui Wan Street,
Fotan, Shatin, N.T.,
Hong Kong

Product Description: Rechargeable Manicure /
Pedicure Set With Nail Dryer And Bubble Spa

Sample Receipt Date: 02 Mar, 2009

Test Conducted Date: 03 Mar, 2009 to 06 Mar, 2009

☒ 1st TEST

☐ 2nd TEST (after modification)

ALL TESTS WERE CONDUCTED IN ACCORDANCE WITH:

* EN 55014-1:2006

* EN 61000-3-3:1995+A1+A2

Test Result	OK	Not OK	See Remark	Test Result	OK	Not OK	See Remark
EN 55014-1:2006	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EN 61000-3-2:2006	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
EN 55014-2:1997+A1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	EN 61000-3-3:1995+A1+A2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

When determining the test conclusion, measurement uncertainty of tests have been considered.

Prepared and checked by:

Approved By:

Sign On File

Lam Hon Ming, Kenneth
Senior Lead Engineer

Tam Ka Po, Sylvia
Assistant Supervisor

Date : 10 Mar, 2009

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EMC Results Conclusion (with Justification)

RE: EMC Testing Pursuant to EMC Directive 2004/108/EC Performed On the Rechargeable Manicure / Pedicure Set With Nail Dryer And Bubble Spa, Models: PSA-3023
PSA-3022, PSA-3022A, PSA-3021

We tested the Rechargeable Manicure / Pedicure Set With Nail Dryer And Bubble Spa, Model: PSA-3023, to determine if it was in compliance with the relevant EN standards as marked on the EMC Verification Summary. We found that the unit met the requirement of EN 55014-1, EN 55014-2, EN 61000-3-2 & EN 61000-3-3 standards when tested as received.

The models PSA-3022, PSA-3022A and PSA-3021 are declared to be identical to the model PSA-3023 in hardware aspect. The difference in model number serves as marketing strategy. Those models can be powered by two adaptors: LG024080EP and TPL-0240800-GS-1C. They are declared to be identical. The representative model PSA-3023 with adaptor LG024080EP were selected to test.

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 has been conducted of the captioned model and the engineering judgement is stated as follows:

EN 55014-2 : According to EN 55014-2, equipment without any electronic control circuitry (Category I) is deemed to fulfil all relevant requirement of this standard.

EN 61000-3-2 : According to EN 61000-3-2, equipment (other than lighting equipment) with a rated power less than or equal to 75W is deemed to fulfil all relevant requirement of this standard without any testing.

Ctrl. No.: 1.2

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LABORATORY MEASUREMENTS

Configuration Information

Equipment Under Test (EUT):	Rechargeable Manicure / Pedicure Set With Nail Dryer And Bubble Spa
Model:	PSA-3023
Serial No.:	Not Labelled
Support Equipment:	N/A
Cables:	N/A
Adaptor:	Model: LG024080EP (provided by applicant) Input: 230Va.c. 50Hz Output: 2.4Vd.c. 800mA
Rated Voltage:	230-240Va.c.

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Applicant: Perfect Steam Appliances Ltd
Model: PSA-3023

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EN 55014-1 Disturbance Power

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-2486	Absorbing Clamp	LUTHI	MDS21	3873
EW-2500	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100847
EW-2501	Artificial Mains Network	ROHDE & SCHWARZ	ENV-216	100483

Test Data

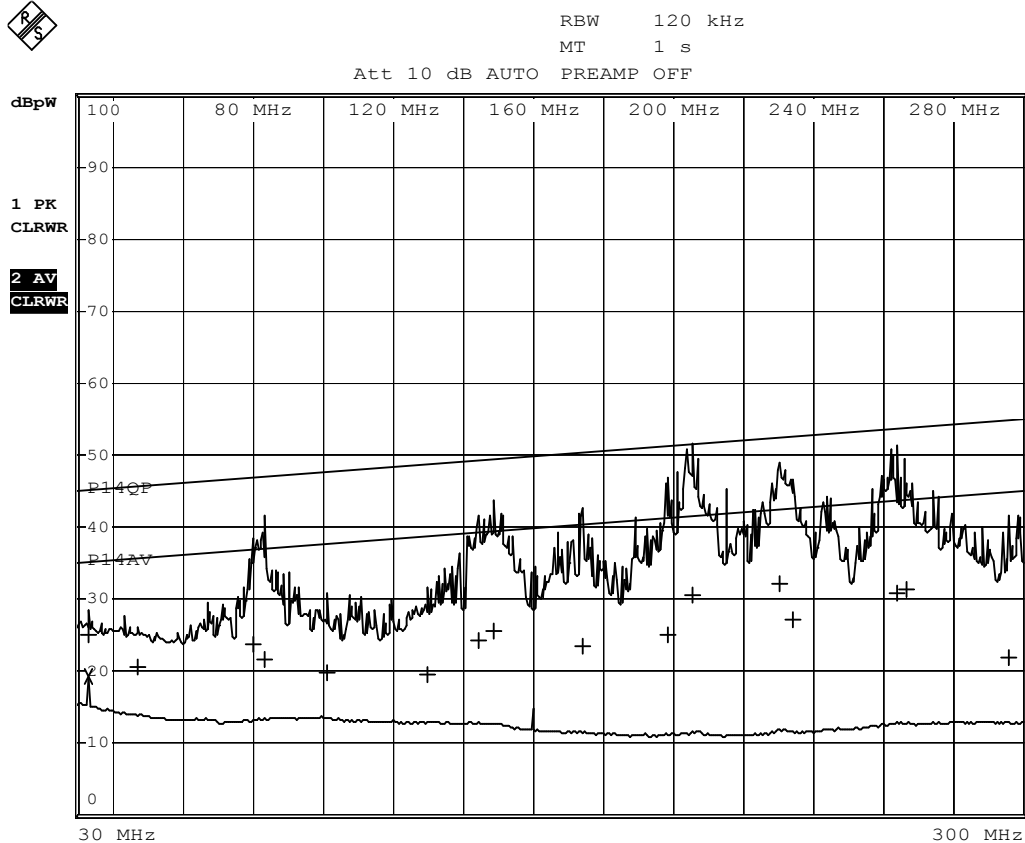
Frequency (MHz)	Quasi-Peak		Average	
	Disturbance level dB(pW)	Permitted limit dB(pW)	Disturbance level dB(pW)	Permitted limit dB(pW)
30.0	< 30.0	45.0	< 20.0	35.0
45.0	< 30.0	45.6	< 20.0	35.6
65.0	< 30.0	46.3	< 20.0	36.3
90.0	< 30.0	47.2	< 20.0	37.2
150.0	< 30.0	49.4	< 20.0	39.4
180.0	< 30.0	50.6	< 20.0	40.6
220.0	< 30.0	52.0	< 20.0	42.0
300.0	< 30.0	55.0	< 20.0	45.0

Notes: A graph of Ctrl. No.: 2.1.1 consisting of one page and a data table of Ctrl. No.: 2.1.2 are attached in the following pages in this report.

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Applicant: Perfect Steam Appliances Ltd
Model: PSA-3023

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Date: 3.MAR.2009 19:40:34

INTERTEK TESTING SERVICES

Applicant: Perfect Steam Appliances Ltd
Model: PSA-3023

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EDIT PEAK LIST (Final Measurement Results)				
Trace1:	P14QP			
Trace2:	P14AV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBpW	DELTA LIMIT dB	
1 Quasi Peak	33.24 MHz	25.04	-20.08	
2 Average	33.24 MHz	19.37	-15.74	
1 Quasi Peak	47.22 MHz	20.52	-25.11	
1 Quasi Peak	80.34 MHz	23.83	-23.03	
1 Quasi Peak	83.28 MHz	21.58	-25.38	
1 Quasi Peak	101.28 MHz	19.93	-27.70	
1 Quasi Peak	129.72 MHz	19.64	-29.05	
1 Quasi Peak	144.54 MHz	24.16	-25.07	
1 Quasi Peak	148.62 MHz	25.63	-23.76	
1 Quasi Peak	173.88 MHz	23.59	-26.73	
1 Quasi Peak	198.6 MHz	24.94	-26.29	
1 Quasi Peak	205.5 MHz	30.58	-20.91	
1 Quasi Peak	230.04 MHz	32.13	-20.27	
1 Quasi Peak	233.88 MHz	27.11	-25.44	
1 Quasi Peak	263.58 MHz	30.92	-22.73	
1 Quasi Peak	266.4 MHz	31.46	-22.28	
1 Quasi Peak	295.86 MHz	21.94	-32.89	

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INTERTEK TESTING SERVICES

Applicant: Perfect Steam Appliances Ltd
Model: PSA-3023

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EN 55014-1 Continuous Disturbance Voltage

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-2500	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100847
EW-2501	Artificial Mains Network	ROHDE & SCHWARZ	ENV-216	100483

Test Data

Frequency (MHz)	Quasi-Peak		Average	
	Disturbance level dB(μ V)	Permitted limit dB(μ V)	Disturbance level dB(μ V)	Permitted limit dB(μ V)
0.16	<40.0	65.5	<30.0	58.3
0.24	<40.0	62.1	<30.0	53.9
0.55	<40.0	56.0	<30.0	46.0
1.00	<40.0	56.0	<30.0	46.0
1.40	<40.0	56.0	<30.0	46.0
2.00	<40.0	56.0	<30.0	46.0
3.50	<40.0	56.0	<30.0	46.0
6.00	<40.0	60.0	<30.0	50.0
10.0	<40.0	60.0	<30.0	50.0
22.0	<40.0	60.0	<30.0	50.0
30.0	<40.0	60.0	<30.0	50.0

Notes: A graph of Ctrl. No.: 2.2.1 consisting of one page is attached in the following page in this report.

INTERTEK TESTING SERVICES

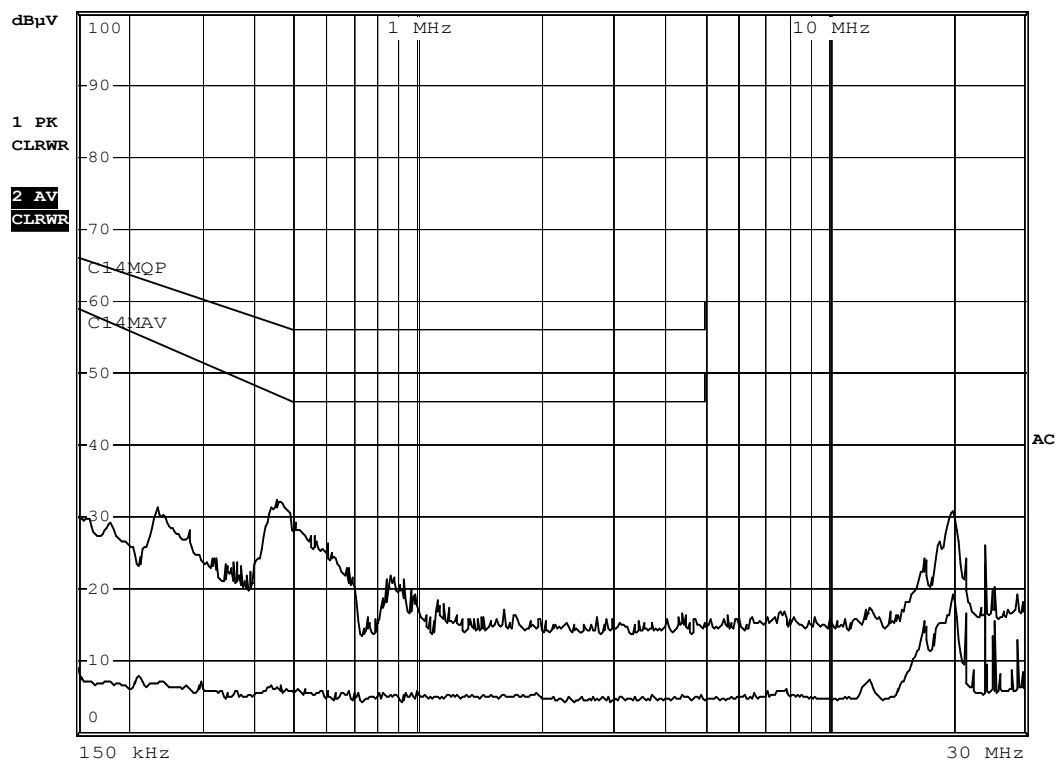
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RBW 9 kHz
MT 20 ms

Att 10 dB AUTO PREAMP OFF



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Date: 3.MAR.2009 18:47:20

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Applicant: Perfect Steam Appliances Ltd
Model: PSA-3023

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EN 55014-1 Discontinuous Disturbance (Click)

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-2500	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100847
EW-2501	Artificial Mains Network	ROHDE & SCHWARZ	ENV-216	100483

Test Data

Frequency (MHz)	0.15	0.50	1.40	30.00
Permitted limit for continuous interference (dB μ V)	66.0	56.0	56.0	60.0
Counted clicks (number) / Switching operation (number)	0	0	0	0
Observation time (min)	120	120	120	120
Factor	N/A	N/A	N/A	N/A
Click rate, N	0	0	0	0
Value to be added (dB)	44	44	44	44
Permitted limit for clicks (dB μ V)	110	100	100	104
Counted clicks exceeding the limit (number)	0	0	0	0
Counted clicks allowed to exceed the permitted limit (number)	0	0	0	0
Complies with the limit	YES	YES	YES	YES

INTERTEK TESTING SERVICES

Applicant: Perfect Steam Appliances Ltd
Model: PSA-3023

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EN 61000-3-3 Voltage Fluctuations and Flicker

Used Test Equipment

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.
EW-1448	Harmonic & Flicker Test System	SCHAFFNER	NSG1007-5-400	54661
EW-1781	Three Phase Power Analyser	Voltech Instrument	PM3000ACE	AI103/8843
EW-1782	Reference Impedance Network	Voltech Instrument	N/A	8729

Test Result

	Result	Limit
d_{\max} (%)	0.063	4.0
d_c (%)	0.017	3.3
$d(t) > 3.3 \%$ (ms)	0	500
P_{st}	0.071	1.0
P_{lt}	N/A	0.65

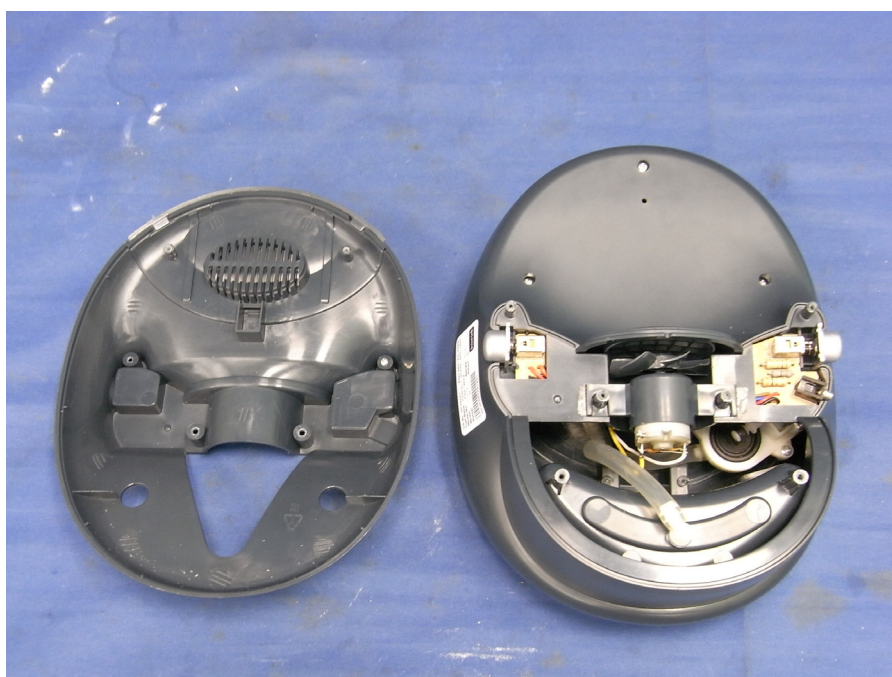
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Applicant: Perfect Steam Appliances Ltd
Model: PSA-3023

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Appendix

Photo of EUT



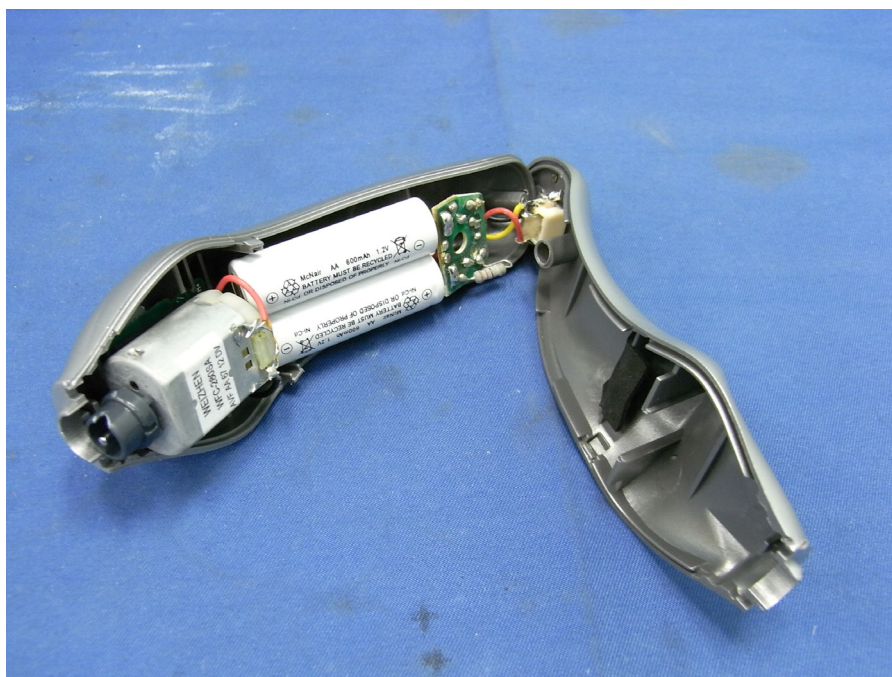
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Applicant: Perfect Steam Appliances Ltd
Model: PSA-3023

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Appendix

Photo of EUT



Guidelines On Issuing EC Declaration Of Conformity Pursuant To EMC Directive

To attest the compliance of apparatus with the relevant EMC Directive, an EC Declaration of Conformity shall be issued by the manufacturer or his authorised representative in the European Community, and the attached EC Declaration of Conformity template contains all mandatory requirements pursuant to EMC Directive 2004/108/EC. Please follow the steps listed below when preparing an EC Declaration of Conformity:

1. Provide the name and address of the manufacturer;
2. Provide the name and address of the authorised representative in the European Community, where applicable;
3. For Apparatus' Description, specify the brand name and any other information allowing for the description of the apparatus to which the EC Declaration of Conformity refers;
4. For Apparatus' Identification, specify the type, batch, serial number or any other information allowing for the identification of the apparatus to which the EC Declaration of Conformity refers;
5. Specify the relevant EMC Directive with which the apparatus are in compliance;
6. List all dated specifications under which conformity is declared to ensure the conformity of the apparatus with the relevant EMC Directive, you may refer the standards shown in the Test Verification of Conformity issued by Intertek;
7. Sign the EC Declaration of Conformity by the person empowered to bind the manufacturer or his authorised representative in the European Community. The Name, Position and Company of this person shall be specified for identification;
8. State the date of issuing the EC Declaration of Conformity.

NOTES:

- a. The EC Declaration of Conformity shall be held by the manufacturer or his authorised representative in the European Community at the disposal of the competent authorities for a period of at least ten years after the date on which such apparatus was last manufactured. If neither the manufacturer nor his authorised representative is established within the European Community, the obligation to hold the EC Declaration of Conformity at the disposal of the competent authorities shall lie with the person who places the apparatus on the European Community market.
- b. If EMC Directive 2004/108/EC is applied, the manufacturer shall draw up technical documentation according to Annex IV of this EMC Directive; and in addition to CE Marking, the apparatus shall also meet other marks and information as stated in Article 9 of the same EMC Directive.
- c. The EC Declaration of Conformity guidelines and template are for your reference only, you shall ensure that the EMC Directive 2004/108/EC is applied correctly.

EC Declaration of Conformity

I, the undersigned,

Manufacturer's Name: _____

Manufacturer's Address: _____

Authorised Representative's Name: _____

Authorised Representative's Address: _____

certify and declare under our sole responsibility that the following apparatus:

Apparatus' Description: _____

Apparatus' Identification: _____

conforms with the essential requirements of

Directive: _____

based on the following specifications applied:

Dated Specifications: _____

and therefore complies with the essential requirements and provisions of the EMC Directive.

Signature: _____

Full Name: _____

Position: _____

Company: _____

Date: _____