



FCC PART 18 TEST REPORT

For

Continental Conair Limited

35/F, Standard Chartered Tower, Millennium City 1, 388 Kwun Tong Road, Kwun Tong, Kowloon, Hong Kong.

FCC ID: U43WIH400CND

Report Type: Original Report		Product Na Commercial	me: Induction Range
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Report Number:	RSZ121127551-00		
Report Date:			
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^{*} This report may contain data that are not covered by the NVLAP accreditation and shall be marked with an asterisk "★"

TABLE OF CONTENTS

GENERAL INFORMATION	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
Objective	3
RELATED SUBMITTAL(S)/GRANT(S)	3
TEST METHODOLOGY	3
TEST FACILITY	3
SYSTEM TEST CONFIGURATION	5
JUSTIFICATION	5
EUT Exercise Software	
SPECIAL ACCESSORIES	
EQUIPMENT MODIFICATIONS	
SUPPORT EQUIPMENT LIST AND DETAILS	5
External Cable	
BLOCK DIAGRAM OF TEST SETUP	6
SUMMARY OF TEST RESULT	7
FCC §18.307 - AC LINE CONDUCTED EMISSIONS	o
APPLICABLE STANDARD	
EUT SETUP	
EMI TEST RECEIVER SETUP	
TEST PROCEDURE	
TEST EQUIPMENT LIST AND DETAILS	
TEST RESULTS SUMMARY	
TEST DATA	
FCC §18.305 – FIELD STRENGTH	
APPLICABLE STANDARD	
EUT SETUP	
EUT SETUPEMI TEST RECEIVER SETUP AND SPECTRUM ANALYZER SETUP	
EUT SETUP EMI TEST RECEIVER SETUP AND SPECTRUM ANALYZER SETUP TEST PROCEDURE	
EUT SETUP EMI TEST RECEIVER SETUP AND SPECTRUM ANALYZER SETUP TEST PROCEDURE CORRECTED AMPLITUDE CALCULATION	
EUT SETUP EMI TEST RECEIVER SETUP AND SPECTRUM ANALYZER SETUP TEST PROCEDURE	

Report No.: RSZ121127551-00

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The Continental Conair Limited's model: WIH400CND (FCC ID: U43WIH400CND) (the "EUT") in this report was a Commercial Induction Range, which was measured approximately: 42.0 cm (L) x 33.0 cm (W) x 10.0 cm (H), the rated input voltage: AC 120V/60Hz. The operating frequency ranges from 18 to 40 kHz

Report No.: RSZ121127551-00

*All measurement and test data in this report was gathered from production sample serial number: 1211023 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2012-11-27.

Objective

This test report is prepared on behalf of *Continental Conair Limited* in accordance with Part 2-Subpart J and Part 18-Subparts A, B and C of the Federal Communication Commissions rules and regulations.

The objective of the manufacturer is to determine the compliance of EUT with FCC Part 18.

Related Submittal(s)/Grant(s)

No related submittal(s).

Test Methodology

All measurements contained in this report were conducted with MP-5, FCC Methods of Measurements of Radio Noise Emissions from ISM Equipment, February 1986. All measurement was performed at Bay Area Compliance Laboratories Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China.

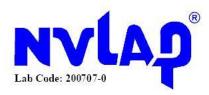
Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on December 06, 2010. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2009.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

FCC Part 18 Page 3 of 15

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is an ISO/IEC 17025 accredited laboratory, and is accredited by National Voluntary Laboratory Accredited Program (Lab Code 200707-0).

Report No.: RSZ121127551-00



The current scope of accreditations can be found at http://ts.nist.gov/Standards/scopes/2007070.htm

FCC Part 18 Page 4 of 15

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

Report No.: RSZ121127551-00

EUT Exercise Software

No exercise software was used.

Special Accessories

No special accessory was used.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Yileosip	Boiler	N/A	N/A

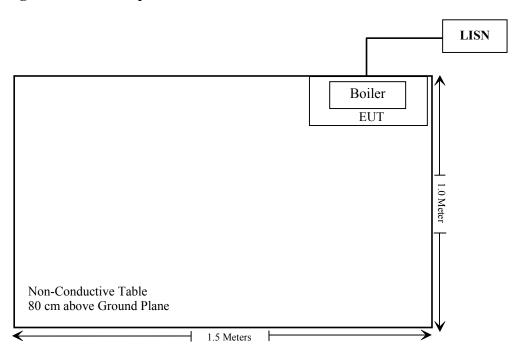
External Cable

Cable Description	Length (m)	From Port	То
Unshielded Undetachable AC Power Cable	1.2	LISN	EUT

FCC Part 18 Page 5 of 15

Report No.: RSZ121127551-00

Block Diagram of Test Setup



FCC Part 18 Page 6 of 15

SUMMARY OF TEST RESULT

FCC Rules	Description of Test	Results
§18.307	AC Line Conducted Emissions	Compliance
§18.305	Field Strength	Compliance

Report No.: RSZ121127551-00

FCC Part 18 Page 7 of 15

FCC §18.307 - AC LINE CONDUCTED EMISSIONS

Applicable Standard

Conduction limits. For the following equipment, when designed to be connected to the public utility (AC) power line the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies shall not exceed the limits in the following tables. Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal using a $50 \,\mu\text{H}/50$ ohms line impedance stabilization network (LISN).

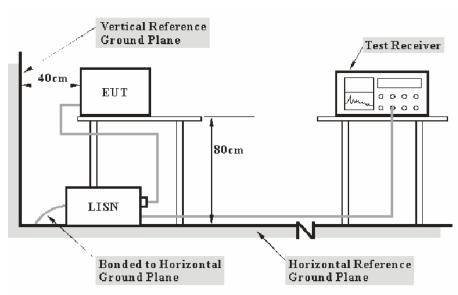
Report No.: RSZ121127551-00

All Induction cooking ranges and ultrasonic equipment

Frequency of emission (MHz)	Conducted limit (dBµV)		
requency of emission (1977)	Quasi-peak	Average	
0.009–0.05	110	-	
0.05–0.15	90–80*	-	
0.15-0.5	66 to 56*	56 to 46*	
0.5–5	56	46	
5–30	60	50	

^{*} Decreases with the logarithm of the frequency *The tighter limits shall apply at the boundary between two frequency ranges

EUT Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with MP-5: 1986 measurement procedure. Specification used was with the FCC Part 18 limits.

FCC Part 18 Page 8 of 15

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

Report No.: RSZ121127551-00

The EUT was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 9 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
9 kHz – 150 kHz	200 Hz
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the EUT was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-Peak detection and Average detection mode.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2012-11-24	2013-11-23
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2012-08-22	2013-08-21
Rohde & Schwarz	Pulse limiter	ESH3Z2	DE25985	2012-07-08	2013-07-07
BACL	CE Test software	BACL-CE	V1.0	-	-

^{*} Statement of Traceability: Bay Area Compliance Laboratory Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to National Institute of Metrology (NIM)

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 18.307(a), with the worst margin reading of:

6.64 dB at 0.640 MHz in the Line conducted mode

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_{\text{m}} + U_{(L_{\text{m}})} \leq L_{\text{lim}} + U_{\text{cispr}}$$

or $U_{(L_{\text{m}})} \leq Margin + U_{\text{cispr}}$

The measurement result of EUT is below the limit level by a margin 6.64 dB and $U_{(Lm)}(2.4 \text{ dB}) \leq Margin(6.64 \text{ dB}) + U_{cispr}(3.4 \text{ dB})$, so the EUT complies with the limit of the FCC Part 18.307(a).

FCC Part 18 Page 9 of 15

Test Data

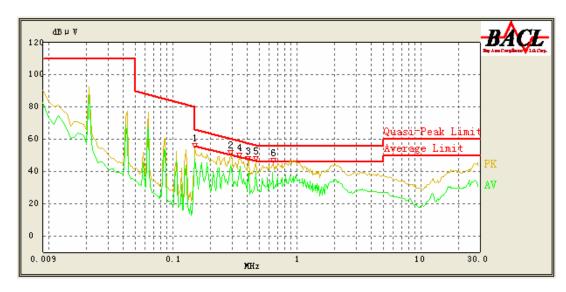
Environmental Conditions

Temperature:	25°C	
Relative Humidity:	50 %	
ATM Pressure:	100.0 kPa	

Testing was performed by Lebron Wang on 2012-12-20.

Test Mode: Running

AC 120V/60 Hz, Line:

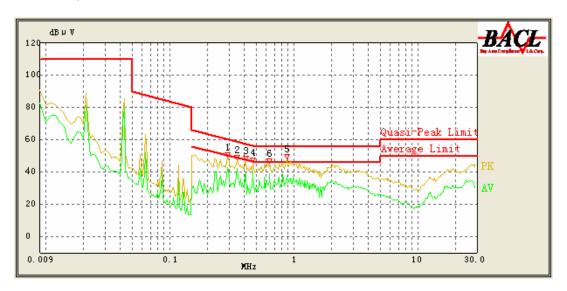


Report No.: RSZ121127551-00

Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.640	39.36	10.23	46.00	6.64	Ave.
0.465	40.31	10.26	47.00	6.69	Ave.
0.290	44.11	10.26	52.00	7.89	Ave.
0.150	47.65	10.27	56.00	8.35	Ave.
0.405	39.04	10.26	48.71	9.67	Ave.
0.345	39.06	10.26	50.43	11.37	Ave.
0.150	52.53	10.27	66.00	13.47	QP
0.645	41.49	10.23	56.00	14.51	QP
0.290	47.40	10.26	62.00	14.60	QP
0.465	42.28	10.26	57.00	14.72	QP
0.405	42.51	10.26	58.71	16.20	QP
0.345	42.88	10.26	60.43	17.55	QP

FCC Part 18 Page 10 of 15

AC 120V/ 60 Hz, Neutral:



Report No.: RSZ121127551-00

Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.465	40.17	10.25	47.00	6.83	Ave.
0.640	39.05	10.22	46.00	6.95	Ave.
0.350	42.40	10.25	50.29	7.89	Ave.
0.875	37.53	10.19	46.00	8.47	Ave.
0.410	39.70	10.25	48.57	8.87	Ave.
0.290	43.01	10.25	52.00	8.99	Ave.
0.640	42.67	10.22	56.00	13.33	QP
0.875	42.31	10.19	56.00	13.69	QP
0.465	42.41	10.25	57.00	14.59	QP
0.350	44.83	10.25	60.29	15.46	QP
0.290	46.04	10.25	62.00	15.96	QP
0.410	42.36	10.25	58.57	16.21	QP

Note:

3) Margin = Limit – Corrected Amplitude

FCC Part 18 Page 11 of 15

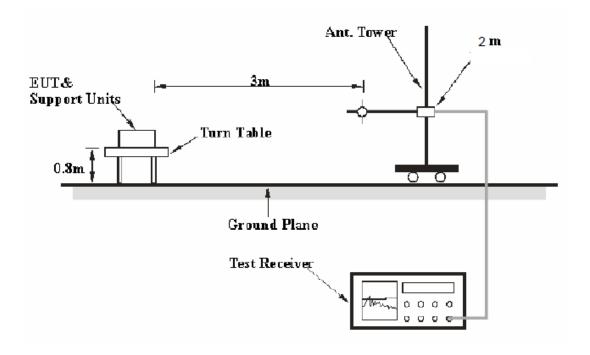
Corrected Amplitude = Reading + Correction Factor
 Correction Factor = LISN/ISN VDF (Voltage Division Factor) + Cable Loss + Pulse Limiter Attenuation
 The corrected factor has been input into the transducer of the test software.

FCC §18.305 – FIELD STRENGTH

Applicable Standard

FCC §18.305(b)

EUT Setup



Report No.: RSZ121127551-00

The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the FCC MP - 5.

The EUT was connected to 120 VAC/60 Hz power source.

EMI Test Receiver Setup and Spectrum Analyzer Setup

The system was investigated from 9 kHz to 30 MHz.

During the radiated emission test, the EMI test receiver and Spectrum Analyzer were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
9 kHz – 150 kHz	200 Hz	1 kHz	200 Hz	QP
150 kHz – 30 MHz	9 kHz	30 kHz	9 kHz	QP

FCC Part 18 Page 12 of 15

Test Procedure

During the conducted emission test, the EUT was connected to the AC floor outlet.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the average detection mode.

Corrected Amplitude Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Report No.: RSZ121127551-00

Corrected Amplitude = Reading + Antenna Factor + Cable Loss

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-LINDGREN	Passive Loop Antenna	6512	00029604	2011-11-30	2014-11-29
Rohde & Schwarz	EMI Test Receiver	ESCI	101122	2012-08-08	2013-08-07
R&S	Auto test Software	EMC32	V6.30	-	-

^{*} Statement of Traceability: Bay Area Compliance Laboratory Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to National Institute of Metrology (NIM)

Test Data

Environmental Conditions

Temperature:	25°C		
Relative Humidity:	50 %		
ATM Pressure:	100.0 kPa		

The testing was performed by Lebron Wang on 2012-12-20.

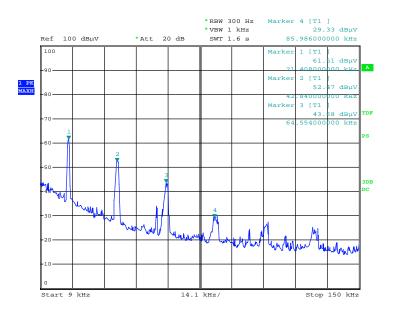
FCC Part 18 Page 13 of 15

Test Mode: Running

Frequency (MHz)	Corrected Amplitude (dBµV/m)	Detector (PK/QP/Ave.)	Direction (Degree)	Height (m)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
0.021	61.51	QP	34	2	30.86	83.51	22.00
0.042	52.47	QP	312	2	24.67	83.51	31.04
0.064	43.68	QP	102	2	21.34	83.51	39.83
0.085	29.33	QP	97	2	14.82	83.51	54.18
0.109	27.24	QP	52	2	14.30	83.51	56.27
0.150	24.19	QP	178	2	11.78	83.51	59.32

Report No.: RSZ121127551-00

9 kHz-150 kHz

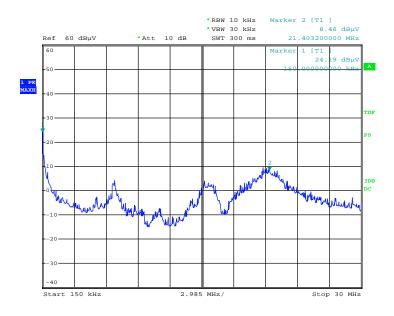


EUT
Date: 20.DEC.2012 20:13:26

FCC Part 18 Page 14 of 15

150 kHz-30 MHz

Report No.: RSZ121127551-00



EUT
Date: 20.DEC.2012 20:11:24

****END OF REPORT****

FCC Part 18 Page 15 of 15