TÜVRheinland®

Produkte
Products

Prüfbericht - Nr.: *Test Report no.:*	**16018113 001**	**Seite 1 von 31** *Page 1 of 31*

Auftraggeber: *Client:*	**Eternal (Guangdong) Electric Holding Ltd.** **Longzhou West Road, Longjiang Town, Shunde District** **Foshan, Guangdong 528318** **P.R. China**
Gegenstand der Prüfung: *Test item:*	**Induction Hotplate**
Bezeichnung: *Identification:*	**CJ-512D** **CJ-512E**
FCC ID: *FCC ID*	**XPPCJ-512D512E**
Wareneingangs-Nr.: *Receipt no.:*	**173045719**
Eingangsdatum: *Date of receipt:*	**27.Jul.2009**
Prüfort: *Testing location:*	**TÜV Rheinland (Guangdong) Ltd. EMC Laboratory** **Guangzhou Auto Market, Yuan Gang Section of Guangshan Road, Guangzhou 510650** **P. R. China**
	Listed test laboratory according to FCC rules section 2.948 for measuring devices under Parts 18
Prüfgrundlage: *Test specification:*	**FCC Part 18: 2007-11-10** **Conduct Emissions with limits described at section 18.307 (a)** **Radiated Emissions with limits described at section 18.305 (b)**
Prüfergebnis: *Test result:*	**Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).** *The test item passed the test specification(s).*
Prüflaboratorium: *Testing laboratory:*	**TÜV Rheinland (Guangdong) Ltd.**

geprüft */ tested by:*

Datum / Date	Name/ Stellung / Name/Position	Unterschrift / Signature
25.Aug.2009	Cherry He Project Manager	Cherry He

kontrolliert/ *reviewed by:*

Datum / Date	Name/ Stellung / Name/Position	Unterschrift / Signature
26. Aug. 2009	Liangdong Xie Project Manager	

Sonstiges/ *Other aspects:*

Abkürzungen:				*Abbreviations:*			
	P(ass)	=	*entspricht Prüfgrundlage*		*P(ass)*	=	*passed*
	F(ail)	=	*entspricht nicht Prüfgrundlage*		*F(ail)*	=	*failed*
	N/A	=	*nicht anwendbar*		*N/A*	=	*not applicable*
	N/T	=	*nicht getestet*		*N/T*	=	*not tested*

TEST SUMMARY

5.1 CONDUCTED EMISSION FOR FCC PART 18 PER SECTION 18.307 (A)
RESULT: *Pass*

5.2 RADIATED EMISSION FOR FCC PART 18 PER SECTION 18.305 (B)
RESULT: *Pass*

Contents

1 General Remarks

1.1 Complementary Materials

None

2 Test Sites

2.1 Test Facilities

1) TÜV Rheinland (Guangdong) Ltd. EMC Laboratory

Guangzhou Auto Market, Yuan Gang Section of Guangshan Road
Guangzhou 510650
P. R. China

2) SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

198 Kezhu Road, Scientech Park,
Guangzhou Economic & Technology Development District
Guanghzou, Guangdong, China 510663

The test at these test sites has been conducted under the supervision of a TÜV Rheinland engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Kind of Equipment	Type	Manufacturer	S/N	Calibrated until
TÜV Rheinland (Guangdong) Ltd. EMC Laboratory				
EMI Test Receiver	ESCI	Rohde & Schwarz	100216	26.11.2009
Trilog-Broadband Antenna	VULB9168	Schwarzbeck	210	08.05.2010
Loop Antenna	HFH2-Z2	Rohde & Schwarz	100111	26.11.2009
Band Reject Filter	BRM50702	Micro-Tronics	023	14.03.2010
3m Semi-anechoic chamber	---	Albatross Projects	---	16.04.2010
EMI Test Receiver	ESCS30	Rohde & Schwarz	100316	16.04.2010
Noise generator	DM8899	DM	607014	17.07.2010
Artificial Mains Network	ESH2-Z5	Rohde&Schwarz	100114	27.03.2010
SGS-CSTC Standards Technical Services Co., Ltd.				
EMI Test Receiver	Rohde&Schwarz	ESIB26	100249	28.01.2010
Bi-log Type Antenna	Schaffner-Chase	CBL6112B	2966	08.10.2009
Bi-log Type Antenna	Schaffner-Chase	CBL6143	5070	08.10.2009
310N Amplifier	Sonama	310N	272683	10.09.2010
10m Semi-Anechoic Chamber	ETS	N/A	N/A	10.08.2010
Active Loop Antenna	EMCO	6502	00042963	09.08.2010
EMI Test Receiver	Rohde&Schwarz	ESIB26	100249	28.01.2010

2.3 Trace ability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for conducted emissions measurements is ± 2.68 dB. The estimated combined standard uncertainty for radiated emissions measurements at TUV is ± 4.94 dB, at SGS is ± 2.468 dB.

2.6 Location of original data

The original copies of all test data taken during actual testing were attached on Page 14-17, 20-27 of this report and delivered to the applicant. A copy has been retained in the TUV Rheinland (Guangzhou) file for certification follow-up purposes.

2.7 Status of facility used for testing

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory; Guangzhou Auto Market, Yuan Gang Section of Guangshan Road, Guangzhou 510650, P. R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements, the register no. 833845.

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guanghzou, Guangdong, China 510663, is listed on the US Federal Communications Commission list of facilities approved to perform measurements, the register no. 282399.

3 General Product Information

Brief description of the test sample:

The submitted samples CJ-512D and CJ-512E are Induction Hotplates for household use. They have the same power PCB, the difference between them is only the control panel PCB, that CJ-512D has two function keys and one knob on the control panel, while CJ-512E only has one knob.

According to above information, all the tests are performed on CJ-512D and CJ-512E respectively.

3.1 Product Function and Intended Use

For details, refer to Technical Documentation and the User Manual.

3.2 Ratings and System Details

Type designation	CJ-512D, CJ-512E
Power Consumption	1400W
System input voltage	AC 120V, 60Hz
Protection class	I

Refer to this report Technical Documentation for further information.

3.3 Independent Operation Modes

The basic operation modes are:
A: On Power adjustable
Temperature adjustable (only for CJ-512D)
Timer (only for CJ-512D)
B: Off

3.4 Submitted Documents

Block Diagram
Circuit Diagram
PCB Layout
External Photo
Internal Photo
Label and Location
User Manual

4 Test Set-up and Operation Mode

4.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Refer to Test set-up in chapter 5.

4.3 Special Accessories and Auxiliary Equipment

Cooking Vessel (provided by manufacturer):

Material: stainless steel

Contact surface diameter 18cm, Top surface diameter 23cm

4.4 Countermeasures to achieve EMC Compliance

No additional countermeasures to the submitted test sample(s) were employed to achieve compliance.

4.5 Test set-up

Diagram 1 of Measurement Equipment Configuration for Testing Conducted Emission

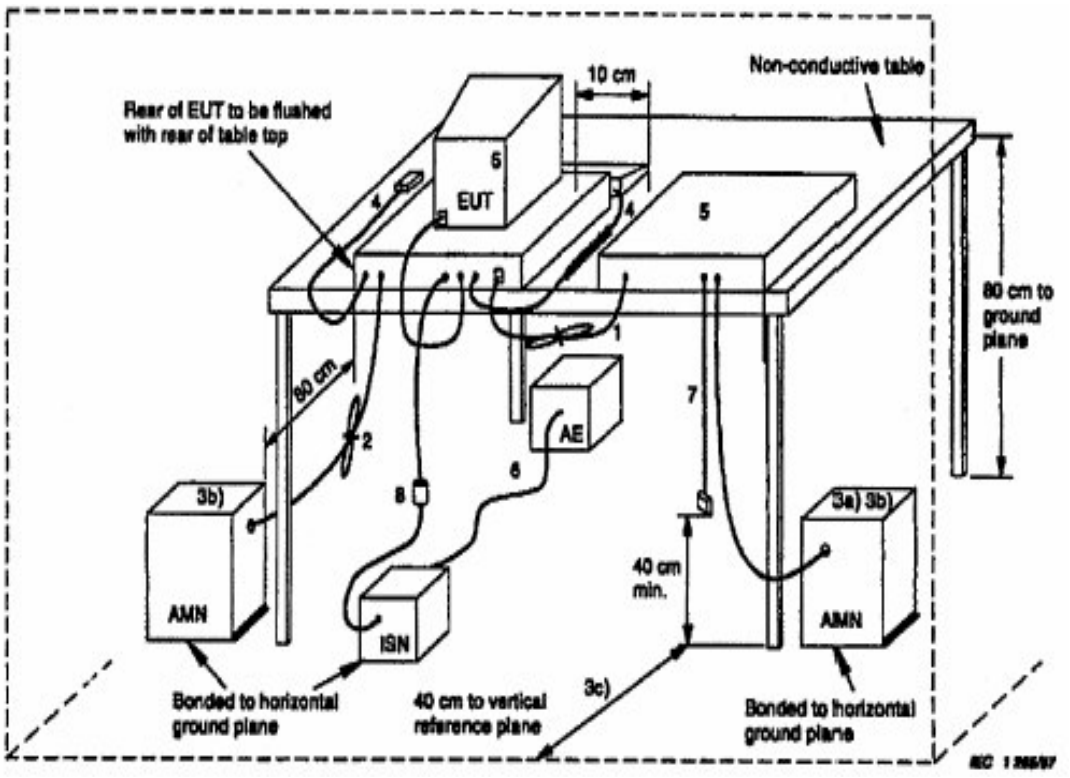
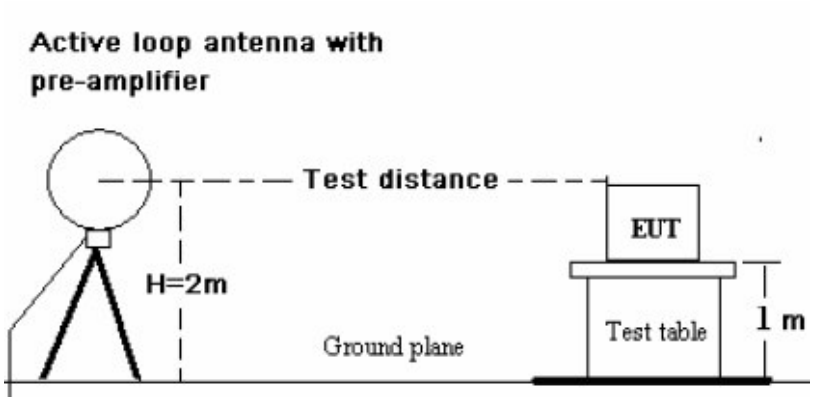
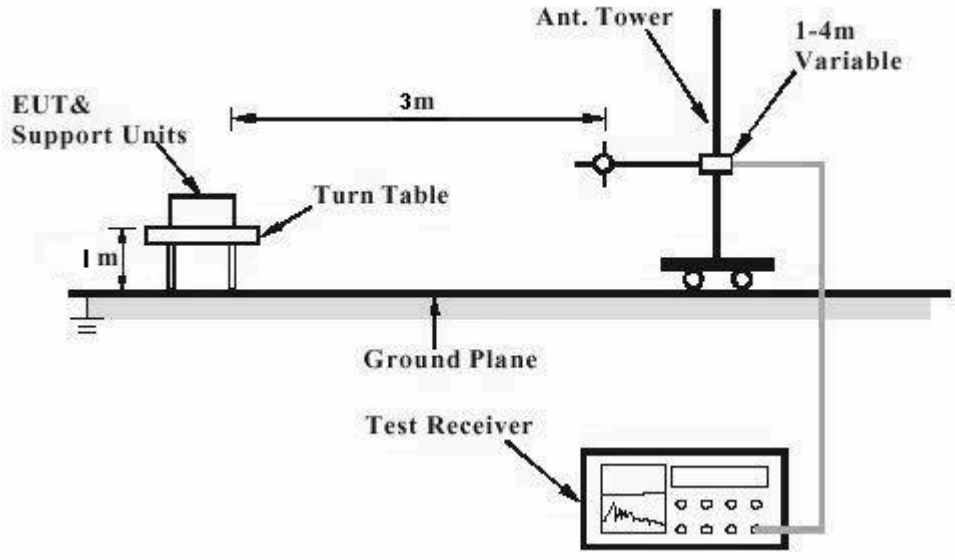


Diagram 2 of Measurement Equipment Configuration for Testing Radiated Emission



10m Semi-anechoic chamber (for 9 kHz-30 MHz)



3m Semi-anechoic chamber (for 30 MHz-1 GHz)

Diagram 3 of Equipment Configuration for Testing Conducted Emission

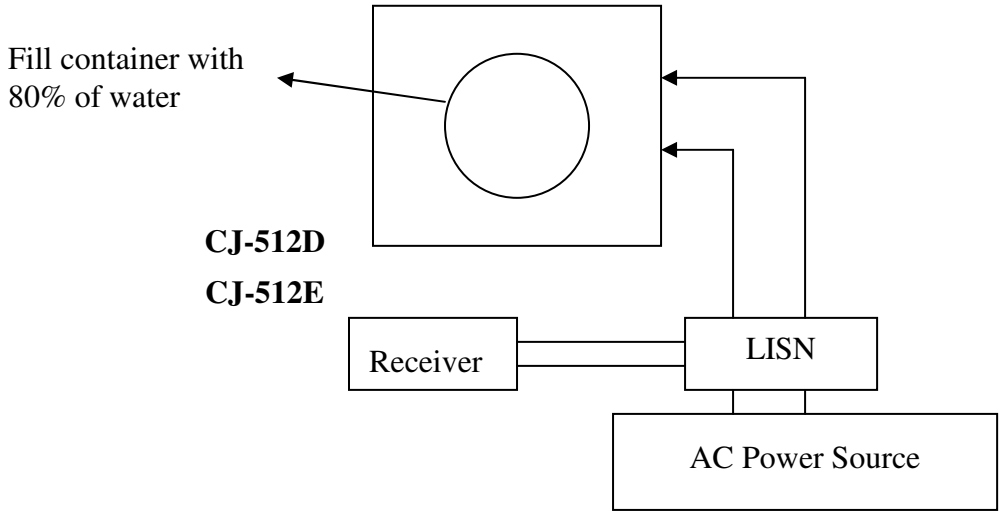
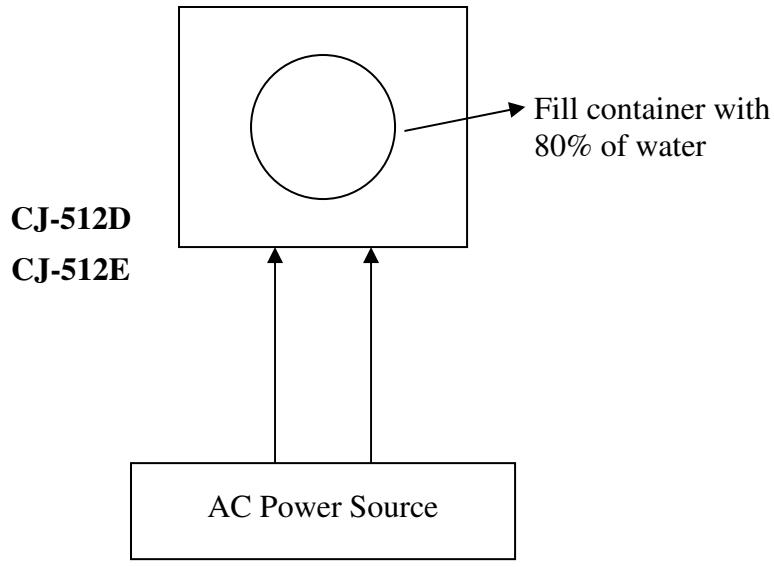


Diagram 4 of Equipment Configuration for Testing Radiated Emission



5 Test Results E M I S S I O N

5.1 Conducted Emission for FCC Part 18 per Section 18.307(a)

RESULT: **Pass**

Date of testing	:	29.Jun.2009 / 18.Aug.2009
Test specification	:	FCC Part 18 Per Section 18.307(a)
Limits	:	FCC Part 18 Per Section 18.307(a)
Deviations from Standard Test procedures	:	None
Test procedure		Procedure specified in FCC/OST MP-5 were followed
Kind of test site	:	Shielded room
Operation mode	:	A: On with max. power
Temperature	:	22°C
Humidity	:	52%

Test procedure:
1. Place the EUT as specified in FCC/OST MP-5 Clause 7. 1

2. Plug the LISN to a correct power source (pay attention to: AC/DC, voltage, frequency).

3. Connect the EUT to LISN.

4. Connect ESCS30 and LISN via a 50-ohm coaxial cable and a pulse limiter then begin exploratory measurement.

5. Make final measurement.

If the result of the measurement with the Quasi Peak detector is below the Average limit, the measurement with Average Detector may be omitted.

Please refer to the following graphs. Disturbances are far below the limit.

TUV Rheinland (Guangdong) Ltd. 001 / 006 EMC Test Service Hotline: +86-20-28391188

EMC Test Record (EMISSION)

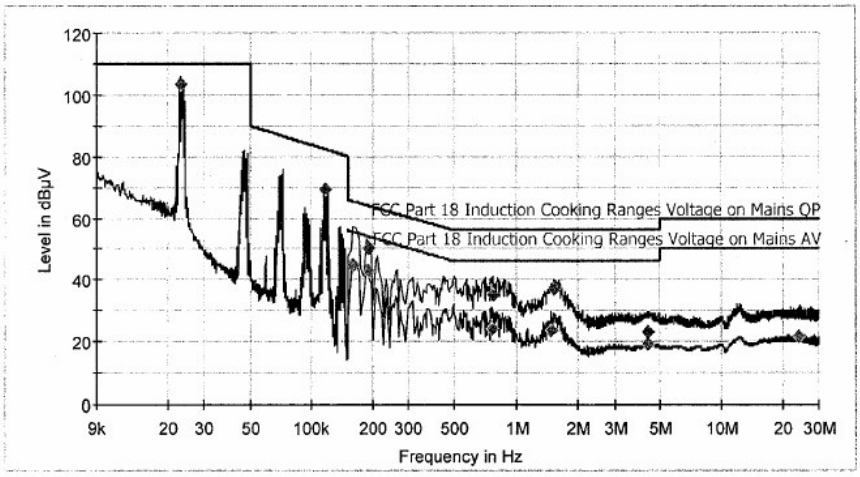
Test Information

Manufacturer:	Eternal		
Test Item:	Induction Hotplate		
Identification:	CJ-512D		
Test Standard:	FCC Part 18		
Test Detail:	Conducted Emission		
Operation Mode:	A		
Climate Condition:	22℃;	52%RH;	101 kPa.
Test Voltage/ Freq.:	AC120 V/	60Hz	
Port / Line:	AC Mains		
Receipt No.:	173045719		
Report No.:	16018113 001		
Result:	Pass		
Comment:	/		

Hardware Setup:	1phase LISN ESH3-Z5 to ESCS30
Level Unit:	dB μ V

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
9kHz - 150kHz	Peak; Average	200Hz	100Hz	50ms	ESCS 30
150kHz - 30MHz	Peak; Average	9kHz	4.5kHz	10ms	ESCS 30

FCC Part 18 DV ESH3-Z5 9k to 30M ESCS30



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Final Measurement Detector 2

Frequency (MHz)	Average (dB µ V)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.160000	44.7	1000.000	9.000	N
0.190000	42.6	1000.000	9.000	L1
0.765000	23.9	1000.000	9.000	L1
1.485000	23.4	1000.000	9.000	L1
4.340000	19.2	1000.000	9.000	L1
23.945000	21.5	1000.000	9.000	L1

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB µ V)	Comment
0.160000	10.1	10.7	55.5	
0.190000	10.0	11.4	54.0	
0.765000	10.1	22.1	46.0	
1.485000	10.1	22.6	46.0	
4.340000	10.5	26.8	46.0	
23.945000	11.5	28.5	50.0	

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dB µ V)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.022900	103.3	1000.000	0.200	N
0.116400	69.5	1000.000	0.200	N
0.190000	50.0	1000.000	9.000	N
0.770000	35.4	1000.000	9.000	L1
1.525000	37.2	1000.000	9.000	L1
4.380000	23.1	1000.000	9.000	N

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB µ V)	Comment
0.022900	10.0	6.7	110.0	
0.116400	10.0	12.8	82.3	
0.190000	10.0	14.0	64.0	
0.770000	10.1	20.6	56.0	
1.525000	10.1	18.8	56.0	
4.380000	10.3	32.9	56.0	

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Tested by: HCH 2009.7.03 Checked

Reviewed by: WLC 2009.7.03 Checked

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

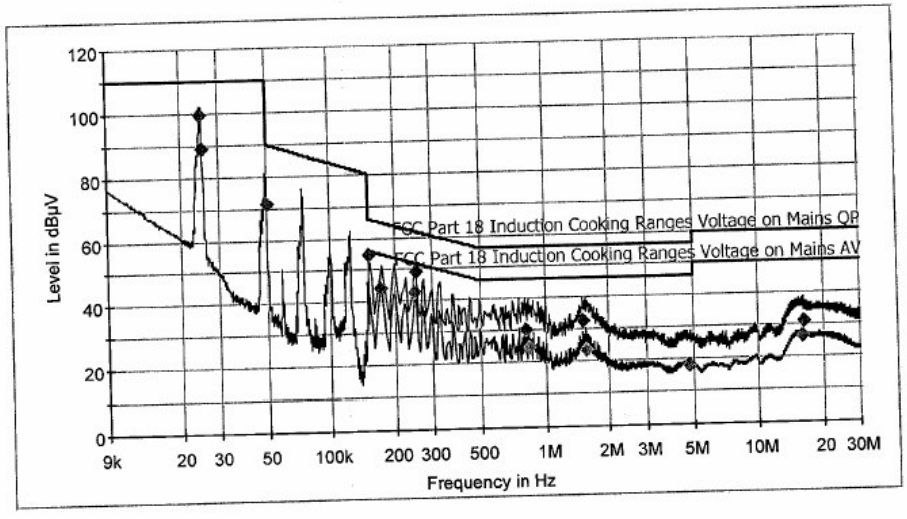
EMC Test Record (EMISSION)

Test Information

Manufacturer:	Eternal		
Test Item:	Induction Hotplate		
Identification:	CJ-512E		
Test Standard:	FCC Part 18		
Test Detail:	Conducted Emission		
Operation Mode:	A		
Climate Condition:	22℃;	52%RH;	101 kPa.
Test Voltage/ Freq.:	AC120 V/	60Hz	
Port / Line:	AC Mains		
Receipt No.:	173045719		
Report No.:	16018113 001		
Result:	Pass		
Comment:	/		
Hardware Setup:	1phase LISN ESH3-Z5 to ESCS30		
Level Unit:	dB μ V		

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
9kHz - 150kHz	Peak; Average	200Hz	100Hz	50ms	ESCS 30
150kHz - 30MHz	Peak; Average	9kHz	4.5kHz	10ms	ESCS 30

FCC Part 18 DV ESH3-Z5 9k to 30M ESCS30



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Tested by:

Reviewed by:

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.024700	99.6	1000.000	0.200	N
0.025000	88.7	1000.000	0.200	L1
0.050000	71.4	1000.000	0.200	L1
0.150000	54.5	1000.000	9.000	N
0.250000	49.2	1000.000	9.000	N
0.800000	30.1	1000.000	9.000	L1
1.500000	32.6	1000.000	9.000	L1
16.190000	31.0	1000.000	9.000	L1

(continuation of the "Final Measurement Detector 1" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.024700	10.4	10.4	110.0	
0.025000	10.4	21.3	110.0	
0.050000	10.1	18.6	90.0	
0.150000	10.1	11.5	66.0	
0.250000	10.1	12.5	61.8	
0.800000	10.1	25.9	56.0	
1.500000	10.1	23.4	56.0	
16.190000	10.9	29.0	60.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.170000	44.0	1000.000	9.000	N
0.245000	42.7	1000.000	9.000	N
0.825000	24.5	1000.000	9.000	L1
1.550000	23.6	1000.000	9.000	L1
4.745000	18.2	1000.000	9.000	N
15.995000	26.5	1000.000	9.000	L1

(continuation of the "Final Measurement Detector 2" table from column 6 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.170000	10.1	11.0	55.0	
0.245000	10.1	9.2	51.9	
0.825000	10.1	21.5	46.0	
1.550000	10.1	22.4	46.0	
4.745000	10.3	27.8	46.0	
15.995000	10.8	23.5	50.0	

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Tested by: HC 2009.8.19 Checked

Reviewed by: WLC 2009.8.19 Checked

5.2 Radiated Emission for FCC Part 18 per Section 18.305(b)

RESULT: **Pass**

Date of testing	:	06.Jul.2009 / 10.Sep.2009 / 16.Sep.2009
Test specification	:	FCC Part 18 Per Section 18.305(b)
Limits	:	FCC Part 18 Per Section 18.305(b)
Deviations from Standard Test procedures	:	None
Test procedure		Procedure specified in FCC/OST MP-5 were followed
Kind of test site	:	10m Semi-anechoic chamber (for 9kHz-30MHz) 3m Semi-anechoic chamber (for 30MHz-1GHz)
Operation mode	:	A: On with max. power
Temperature	:	22°C
Humidity	:	50%

Test procedure:

9 kHz-30MHz
1. An initial pre-scan was performed in the 10m chamber using the spectrum analyzer in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by a 0.6m loop antenna.

2. The loop antenna was set to the vertical X, for suspected emission frequency point the antenna was rotated 180 degrees and the maximum emission value was recorded.

3. Then the loop antenna was set to the horizontal Z axis, step 1 is repeated.

3. For each suspected emission frequency point recorded in step 1, the EUT was arranged to its worst case and the EUT was turned from 0 degrees to 360 degrees to read the maximum emission.

30MHz-1GHz
1. The EUT was turned on and placed on the top of a rotatable table 1 meter above the ground with 3-orthogonal XYZ direction and be kept close enough to the measurement receiving antenna (especially for the measurement frequency range above 30MHz). The table was then rotated 360 degrees to detect the suspected emission frequency points. The position of the worst radiation case with both horizontal and vertical receiving antenna polarization was then recorded together with the suspected emission frequency points above-mentioned.

2. The EUT was then set 3 meters away from the receiving antenna, which was mounted on a variable-height antenna tower.

3. For each suspected emission frequency point recorded in step 1, the EUT was arranged to its worst case that the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to read the maximum emission.

The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200Hz for frequency 9kHz to 150kHz, 9kHz for frequency 150kHz to 30MHz and 120 kHz for frequency 30MHz to 1GHz.

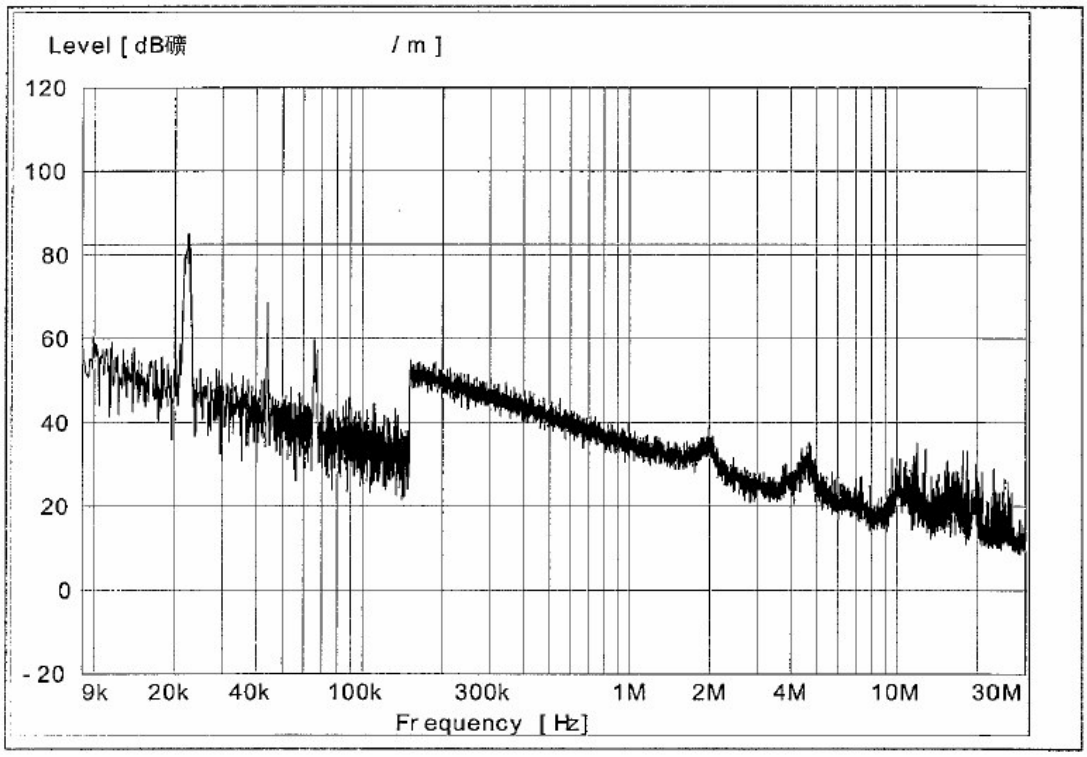
Please refer to the following graphs.

SGS

Radiated Emission Test Data Sheet

Job No.:		Date: 9/16/2009	
Applicant:		Standard: FCC Part 18	
E.U.T.:	INDUCTION COOKER	Model: CJ-512D	
Polarization:	☐ Line ☐ Neutra ☐ Power Clamp	Voltage:	120 V, ☑ AC ☐ DC ☐ 50 Hz ☑ 60 Hz
Memo:	**Test the EUT in ON mode, keep EUT max power output.**		

Test Curve



Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBµV)	QP Level (dBµV)	Limit (dBµV)	Margin (dB)	Receiver AV Reading (dBµV)	AV Level (dBµV)	Limit (dBµV)	Margin (dB)
0.023	14.5	66.7	81.2	82.6	1.4		79.8		

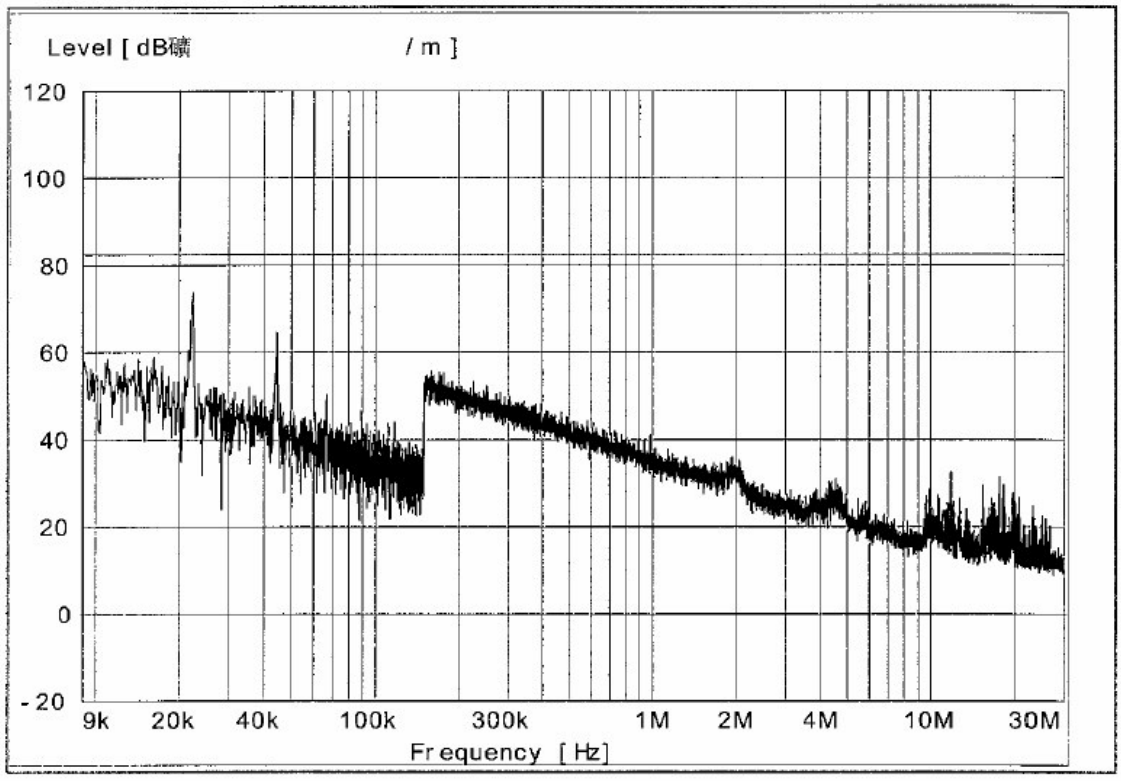
Polarity
V

SGS

Radiated Emission Test Data Sheet

Job No.:		Date: 9/16/2009	
Applicant:		Standard: FCC Part 18	
E.U.T.:	INDUCTION COOKER	Model: CJ-512D	
Polarization:	☐ Line ☐ Neutra ☐ Power Clamp	Voltage:	120 V, ☑ AC ☐ DC ☐ 50 Hz ☑ 60 Hz
Memo:	**Test the EUT in ON mode, keep EUT max power output.**		

Test Curve



Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBµV)	QP Level (dBµV)	Limit (dBµV)	Margin (dB)	Receiver AV Reading (dBµV)	AV Level (dBµV)	Limit (dBµV)	Margin (dB)
0.022	19.1	54.2	73.3	82.6	9.3		71.1		

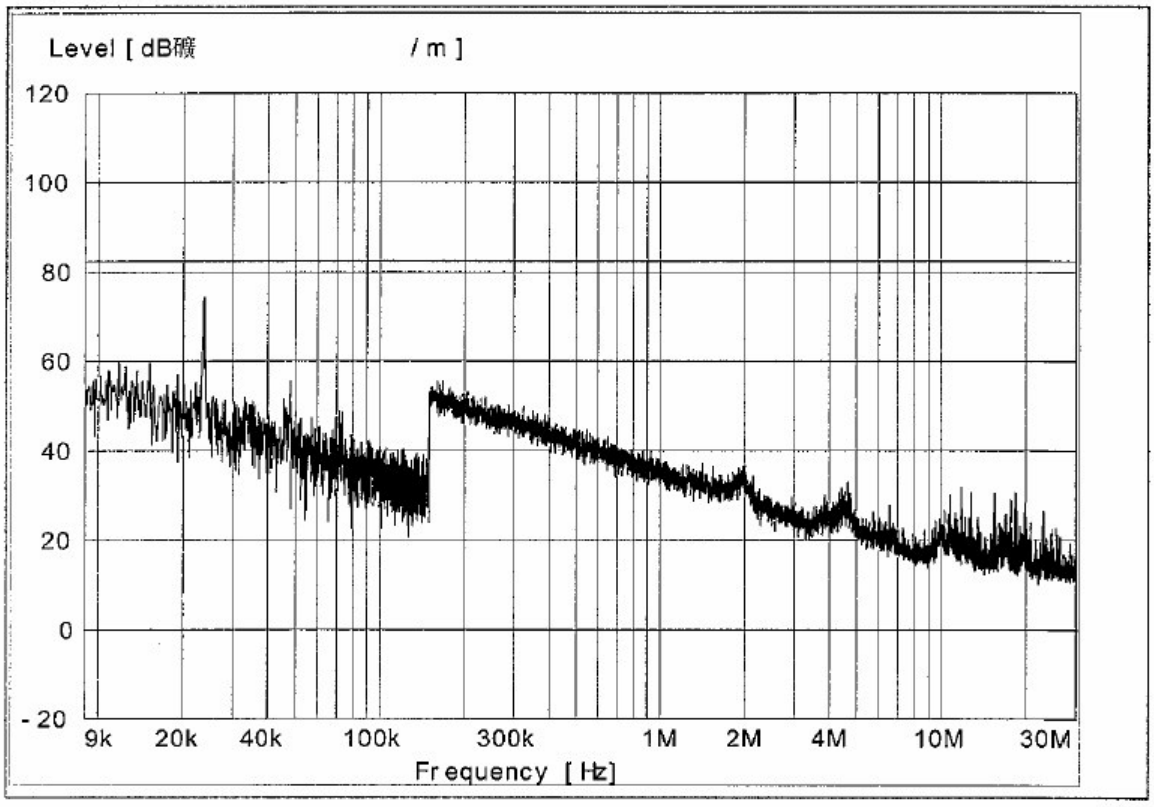
Polarity
H

SGS

Radiated Emission Test Data Sheet

Job No.:		Date: 9/16/2009	
Applicant:		Standard: FCC Part 18	
E.U.T.:	INDUCTION COOKER	Model:	CJ-512E
Polarization:	☐ Line ☐ Neutra ☐ Power Clamp	Voltage:	120 V, ☑ AC ☐ DC ☐ 50 Hz ☑ 60 Hz
Memo:	**Test the EUT in ON mode, keep EUT max power output.**		

Test Curve



Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBμV)	QP Level (dBμV)	Limit (dBμV)	Margin (dB)	Receiver AV Reading (dBμV)	AV Level (dBμV)	Limit (dBμV)	Margin (dB)
0.024	14.5	56.5	71.0	82.6	11.6		70.2		

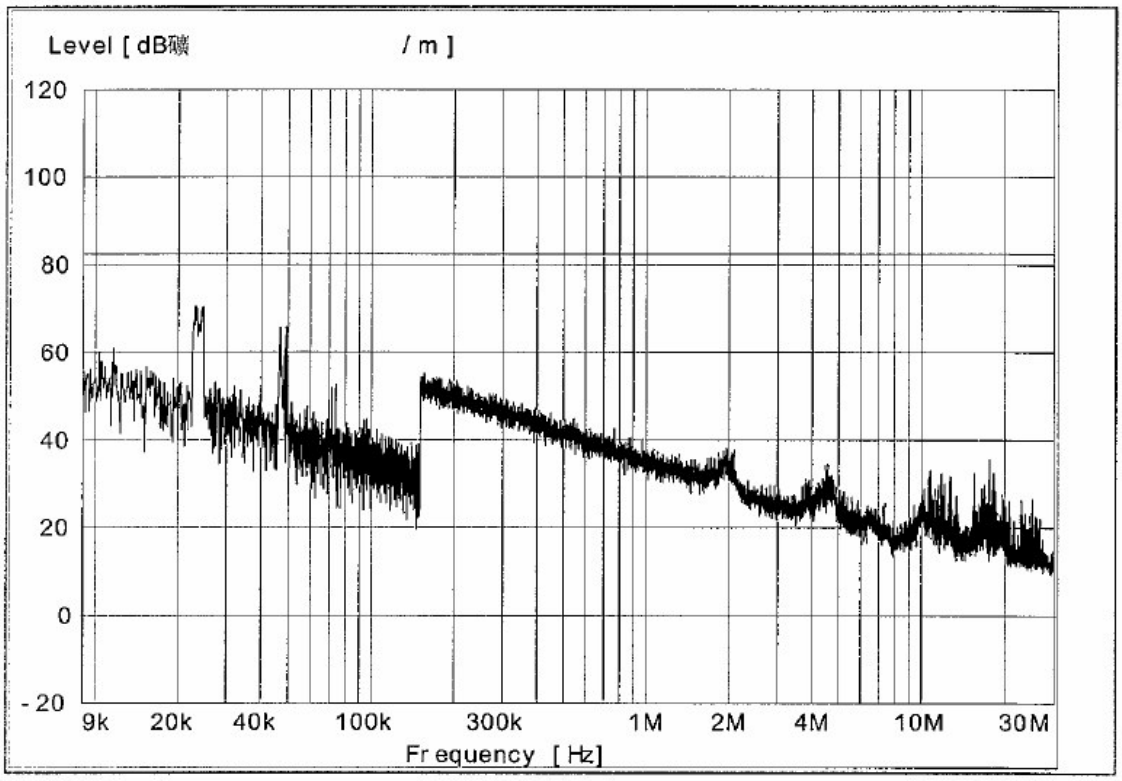
Polarity
V

SGS

Radiated Emission Test Data Sheet

Job No.:		Date:	9/16/2009
Applicant:		Standard:	FCC Part 18
E.U.T.:	INDUCTION COOKER	Model:	CJ-512E
Polarization:	☐ Line ☐ Neutra ☐ Power Clamp	Voltage:	120 V, ☑ AC ☐ DC ☐ 50 Hz ☑ 60 Hz
Memo:	**Test the EUT in ON mode, keep EUT max power output.**		

Test Curve



Frequency (MHz)	Transducer (dB)	Receiver QP Reading (dBµV)	QP Level (dBµV)	Limit (dBµV)	Margin (dB)	Receiver AV Reading (dBµV)	AV Level (dBµV)	Limit (dBµV)	Margin (dB)
0.024	19.1	55.9	75.0	82.6	7.6		73.1		

Polarity
H

005 / 006

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

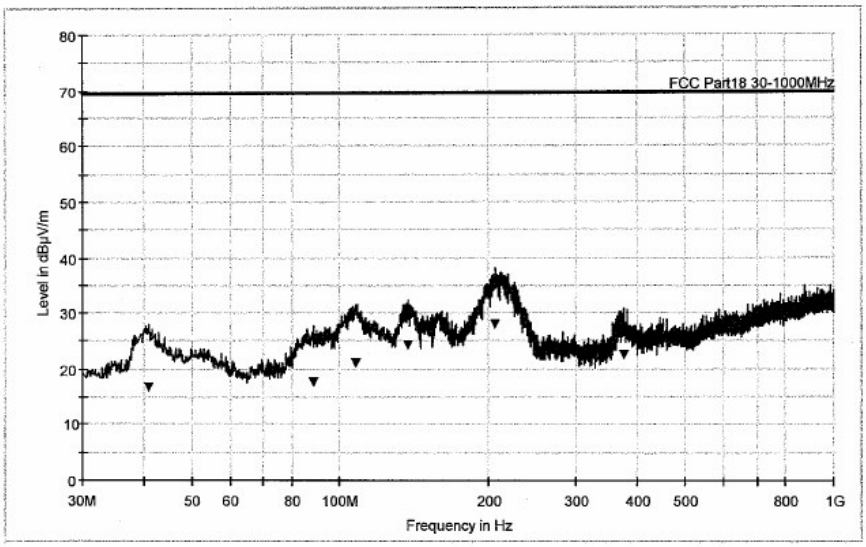
EMC Test Record (EMISSION)

Test Information

Manufacturer:	Eternal		
Test Item:	Induction Hotplate		
Identification	CJ-512D		
Test Standard:	FCC Part 18		
Test Detail:	Radiated Emission		
Operation Mode:	A		
Climate Condition:	22℃;	52%RH;	101kPa.
Test Voltage / Freq. :	AC120V/	60Hz	
Receipt No.:	173045719		
Report No.	16018113 001		
Result:	Pass		
Comment:	/		

Subrange 1

Frequency Range:	30MHz - 1GHz
Receiver:	TUV ESCI 3
Transducer:	TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



Limit and Margin

Frequency (MHz)	Average (dB µ V/m)	Corr. (dB)	Margin (dB)	Limit (dB µ V/m)	Polarity
40.800000	16.8	15.1	52.7	69.5	H
88.450000	17.6	11.0	51.9	69.5	H
107.500000	21.1	12.7	48.4	69.5	H
137.300000	24.2	15.3	45.3	69.5	H
206.050000	27.9	12.5	41.6	69.5	H
375.950000	22.5	17.8	47.0	69.5	H

Date: 7/6/2009 - Time: 9:55:17 AM

Tested by: HCH 2009.7.06 Checked

Reviewed by: WLC 2009.7.06 Checked

006 / 006

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

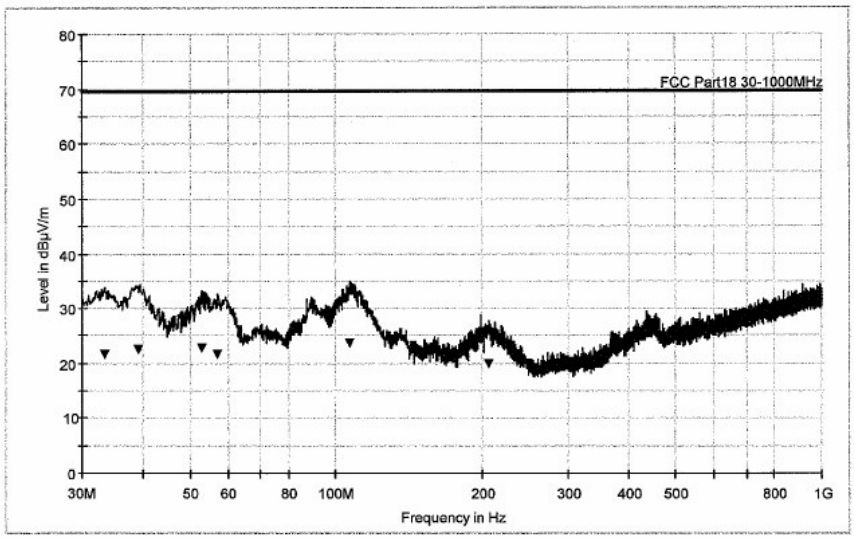
EMC Test Record (EMISSION)

Test Information

Manufacturer:	Eternal		
Test Item:	Induction Hotplate		
Identification	CJ-512D		
Test Standard:	FCC Part 18		
Test Detail:	Radiated Emission		
Operation Mode:	A		
Climate Condition:	22℃;	52%RH;	101kPa.
Test Voltage / Freq. :	AC120V/	60Hz	
Receipt No.:	173045719		
Report No.	16018113 001		
Result:	Pass		
Comment:	/		

Subrange 1

Frequency Range:	30MHz - 1GHz
Receiver:	TUV ESCI 3
Transducer:	TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



Limit and Margin

Frequency (MHz)	Average (dB µ V/m)	Corr. (dB)	Margin (dB)	Limit (dB µ V/m)	Polarity
33.250000	21.7	14.3	47.8	69.5	V
39.100000	22.5	15.0	47.0	69.5	V
52.800000	22.8	14.5	46.7	69.5	V
57.050000	21.8	14.3	47.7	69.5	V
106.850000	23.6	12.6	45.9	69.5	V
205.550000	19.9	12.5	49.6	69.5	V

Date: 7/6/2009 - Time: 10:00:22 AM

Tested by: HCH 2009.7.06 Checked

Reviewed by: WLC 2009.7.06 Checked

TUV Rheinland (Guangdong) Ltd. EMC Test Service Hotline: +86-20-28391188

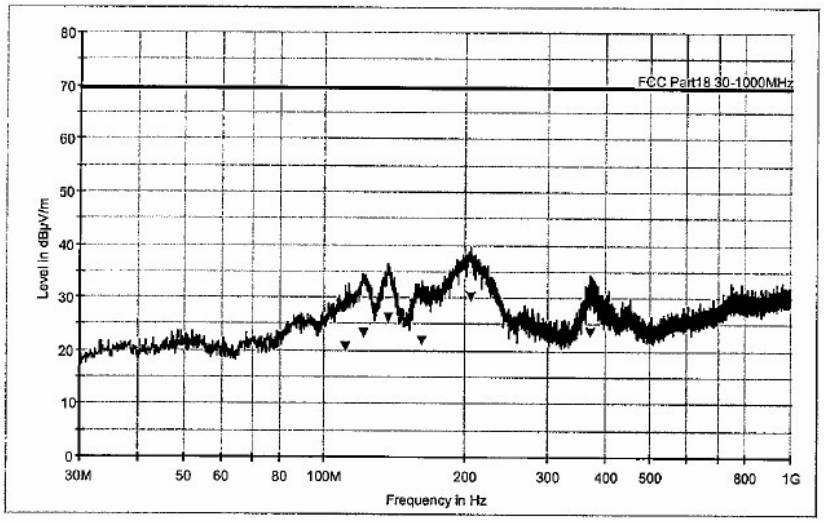
EMC Test Record (EMISSION)

Test Information

Manufacturer:	Eternal
Test Item:	Induction Hotplate
Identification	CJ-512E
Test Standard:	FCC Part 18
Test Detail:	Radiated Emission
Operation Mode:	A
Climate Condition:	22 ℃; 50%RH; 101kPa.
Test Voltage / Freq. :	120V/ 60Hz
Receipt No.:	/
Report No.	/
Result:	Pass
Comment:	3m SAC

Subrange 1

Frequency Range:	30MHz - 1GHz
Receiver:	TUV ESCI 3
Transducer:	TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



Limit and Margin AV

Frequency (MHz)	Average (dB µ V/m)	Corr. (dB)	Margin (dB)	Limit (dB µ V/m)	Polarity
111.000000	20.8	12.5	48.7	69.5	H
121.050000	23.5	13.6	46.0	69.5	H
137.300000	26.3	14.8	43.2	69.5	H
162.050000	21.9	15.5	47.6	69.5	H
205.350000	30.3	11.7	39.2	69.5	H
372.900000	23.8	16.7	45.7	69.5	H

Date: 9/10/2009 - Time: 8:16:33 PM Tested by: _____ Reviewed by: _____

TUV Rheinland (Guangdong) Ltd. EMC Test Service Hotline: +86-20-28391188

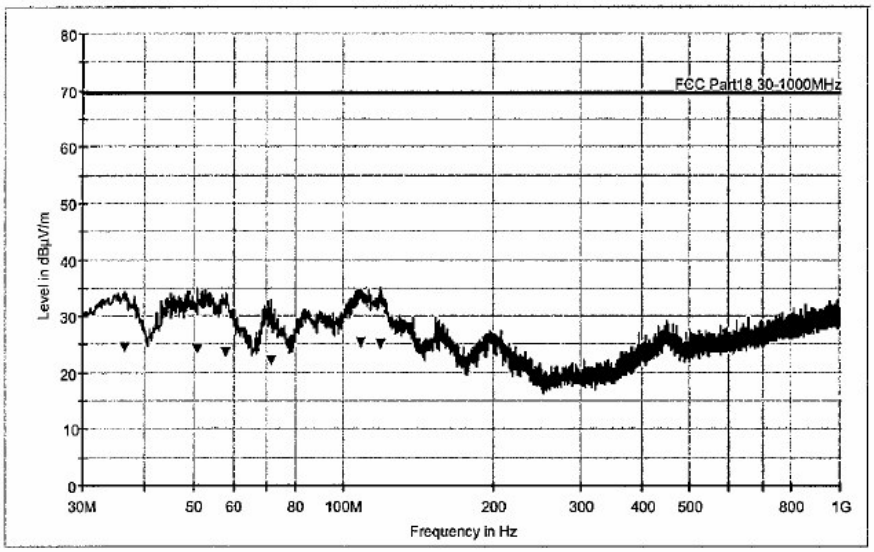
EMC Test Record (EMISSION)

Test Information

Manufacturer:	Eternal
Test Item:	Induction Hotplate
Identification	CJ-512E
Test Standard:	FCC Part 18
Test Detail:	Radiated Emission
Operation Mode:	A
Climate Condition:	22 ℃; 50%RH; 101kPa.
Test Voltage / Freq. :	120V/ 60Hz
Receipt No.:	/
Report No.	/
Result:	Pass
Comment:	3m SAC

Subrange 1

Frequency Range:	30MHz - 1GHz
Receiver:	TUV ESCI 3
Transducer:	TUV SAC UVLB 9168 / TUV ESCI3 -TUV SAC UVLB 9168



Limit and Margin AV

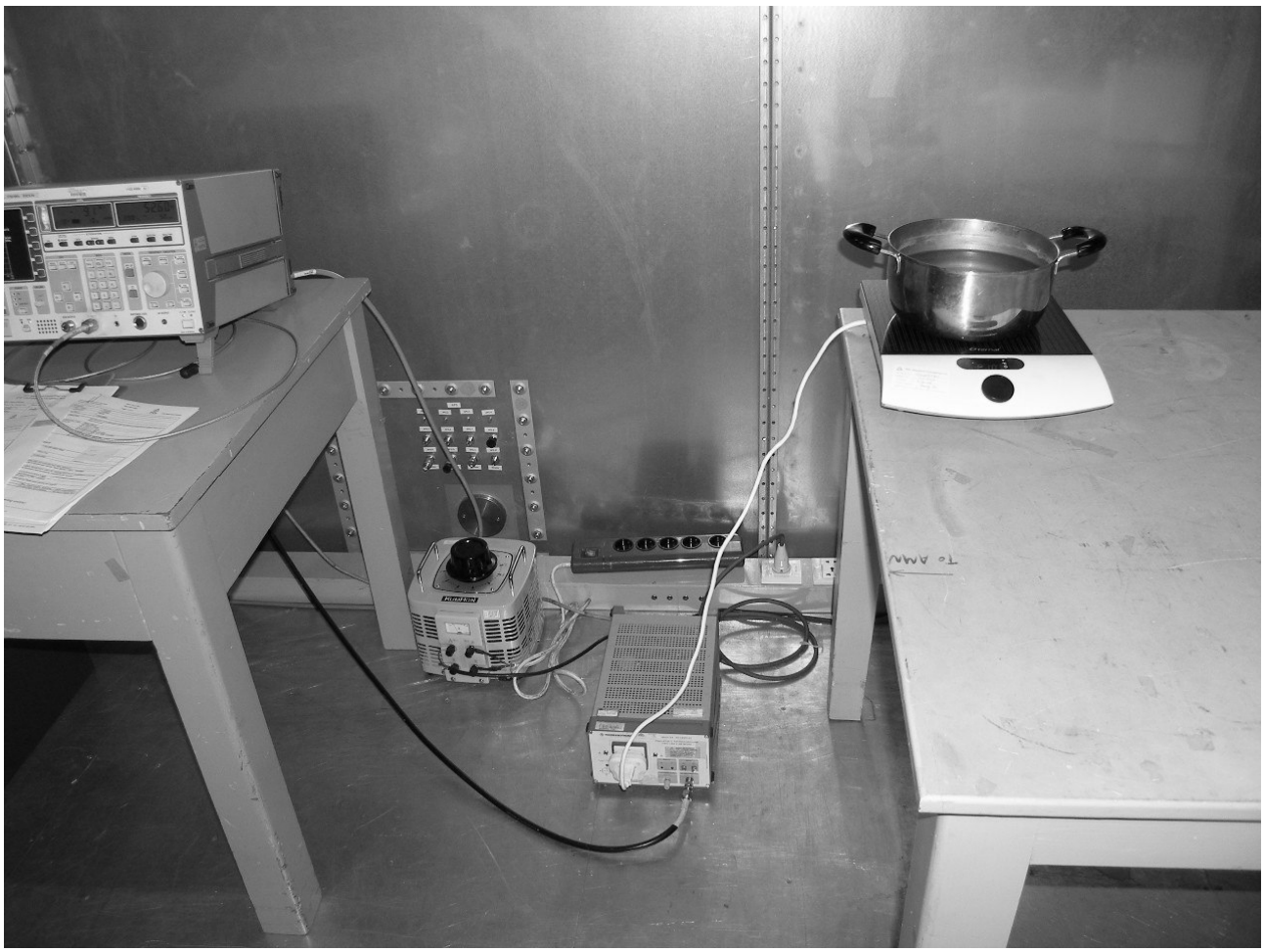
Frequency (MHz)	Average (dB µ V/m)	Corr. (dB)	Margin (dB)	Limit (dB µ V/m)	Polarity
36.450000	24.6	14.3	44.9	69.5	V
50.850000	24.2	14.2	45.3	69.5	V
58.000000	23.6	13.8	45.9	69.5	V
71.350000	22.1	11.6	47.4	69.5	V
108.100000	25.3	12.2	44.2	69.5	V
119.100000	25.2	13.5	44.3	69.5	V

CTI 2009.9.16 Checked

Date: 9/10/2009 - Time: 8:21:26 PM Tested by: _____ Reviewed by: _____

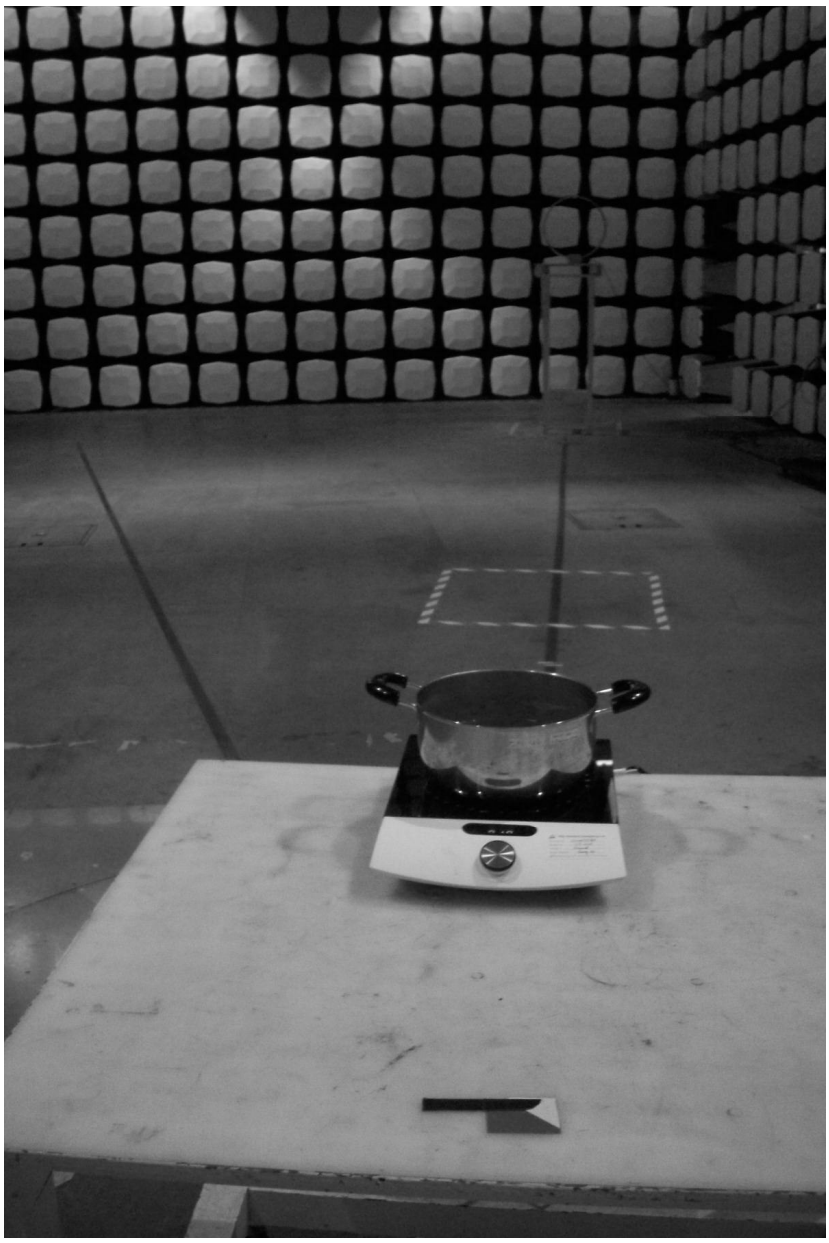
6 Photographs of the Test Set-Up

Photograph 1: Set-up for Conducted Emission

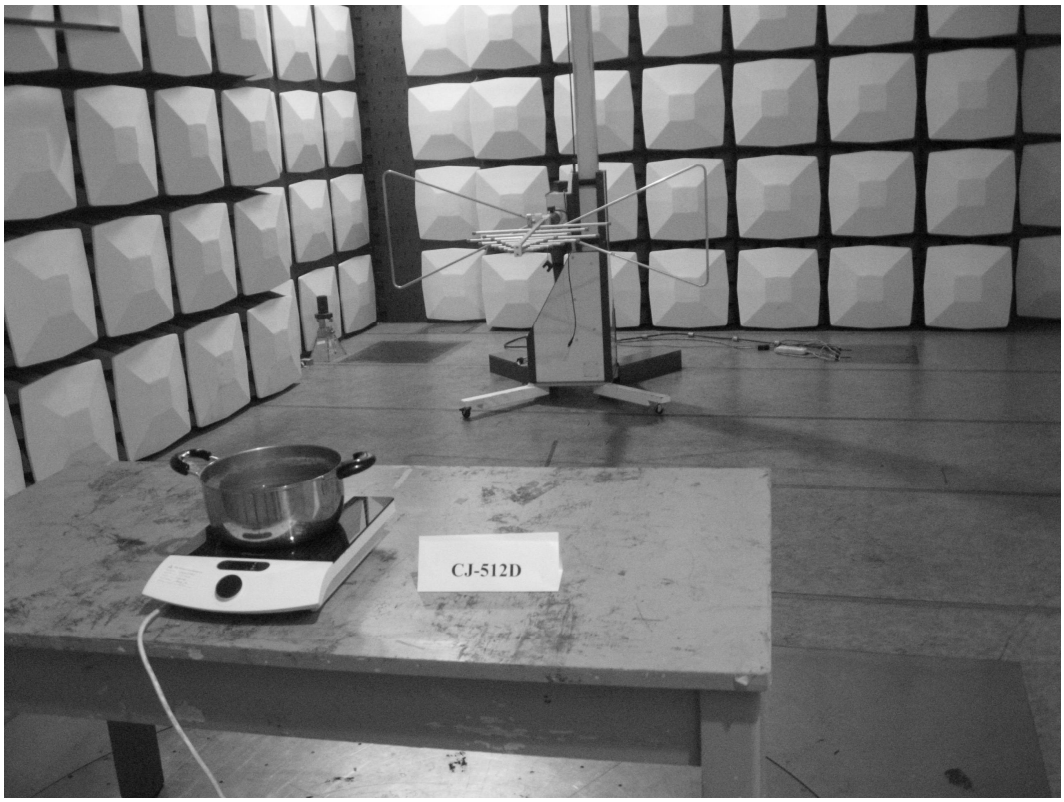


Remark: The test set-up photos of CJ-512D and CJ-512E are the same.

Photograph 2: Set-up for Radiated Emission



9 kHz – 30 MHz (10m distance)



30MHz - 1GHz (3m distance)

7 List of Tables

8 List of Photographs