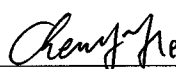
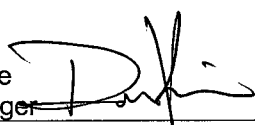


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<i>Test Report no.:</i>		<i>Page 1 of 25</i>	
Auftraggeber: <i>Client:</i>		Zhongshan Shanghao Electric Appliances Co., Ltd. No.9, Tongji Road East, ShengHui North Industrial Area, NanTou Town, Zhong Shan, Guangdong China	
Gegenstand der Prüfung: <i>Test item:</i>		Induction Cooker	
Bezeichnung: <i>Identification:</i>	B301 SR-963T SR-964T SR-965T	FCC ID: <i>FCC ID</i>	YOJ-B301
Wareneingangs-Nr.: <i>Receipt no.:</i>	173054180	Eingangsdatum: <i>Date of receipt:</i>	29.Jun.2010
Prüfart: <i>Testing location:</i>	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: <i>Test specification:</i>	FCC Part 18: 2009-10-1 Conduct Emissions with limits described at section 18.307 (a) Radiated Emissions with limits described at section 18.305 (b)		
Prüfergebnis: <i>Test result:</i>	Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n). <i>The test item passed the test specification(s).</i>		
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Guangdong) Ltd.		
geprüft / tested by:		kontrolliert / reviewed by:	
14.Oct.2010 Cherry He Project Manager 		14. Oct. 2010 Liangdong Xie Project Manager 	
Datum <i>Date</i>	Name/ Stellung <i>Name/Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>
Sonstiges/ Other aspects:			
Abkürzungen: P(ass) = entspricht Prüfgrundlage F(ail) = entspricht nicht Prüfgrundlage N/A = nicht anwendbar N/T = nicht getestet			
Abbreviations: P(ass) = passed F(ail) = failed N/A = not applicable N/T = not tested			
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.</i>			

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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*

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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, Sciencetech Park,
Guangzhou Economic & Technology Development District
Guangzhou, 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	16.03.2011
Trilog-Broadband Antenna	VULB9168	Schwarzbeck	210	16.03.2011
Loop Antenna	HFH2-Z2	Rohde & Schwarz	100111	16.03.2011
Band Reject Filter	BRM50702	Micro-Tronics	023	16.03.2011
3m Semi-anechoic chamber	---	Albatross Projects	---	16.03.2011
EMI Test Receiver	ESCS30	Rohde & Schwarz	100316	16.03.2011
Noise generator	DM8899	DM	607014	16.03.2011
Artificial Mains Network	ESH2-Z5	Rohde&Schwarz	100114	16.03.2011
SGS-CSTC Standards Technical Services Co., Ltd.				
EMI Test Receiver	Rohde&Schwarz	ESIB26	100249	28.01.2011
Bi-log Type Antenna	Schaffner-Chase	CBL6112B	2966	08.10.2010
Bi-log Type Antenna	Schaffner-Chase	CBL6143	5070	08.10.2010
310N Amplifier	Sonama	310N	272683	10.09.2010
10m Semi-Anechoic Chamber	ETS	N/A	N/A	10.08.2011
Active Loop Antenna	EMCO	6502	00042963	09.08.2011
EMI Test Receiver	Rohde&Schwarz	ESIB26	100249	28.01.2011

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, Sciencetech Park, Guangzhou Economic & Technology Development District, Guangzhou, 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 B301, SR-963T, SR-964T and SR-965T are Induction Cookers for household use. They are all the same except the name.

According to above information, all the tests are performed on B301.

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	B301, SR-963T, SR-964T, SR-965T
Power Consumption	1300W
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
 Timer
- 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 27cm

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

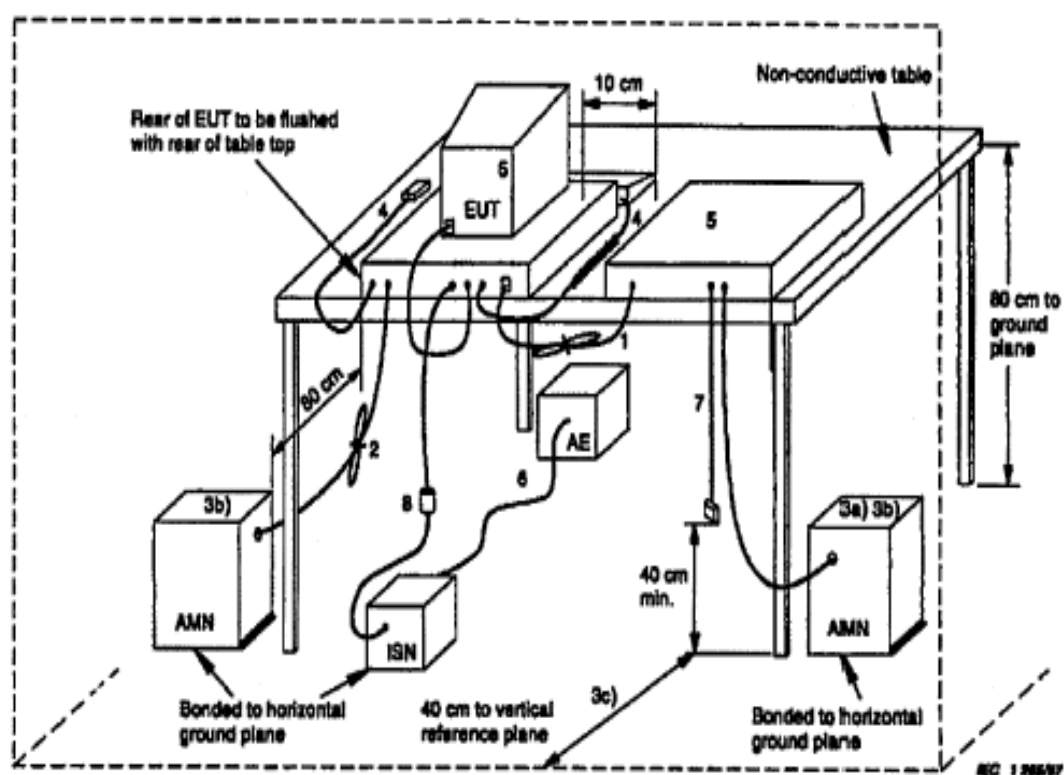
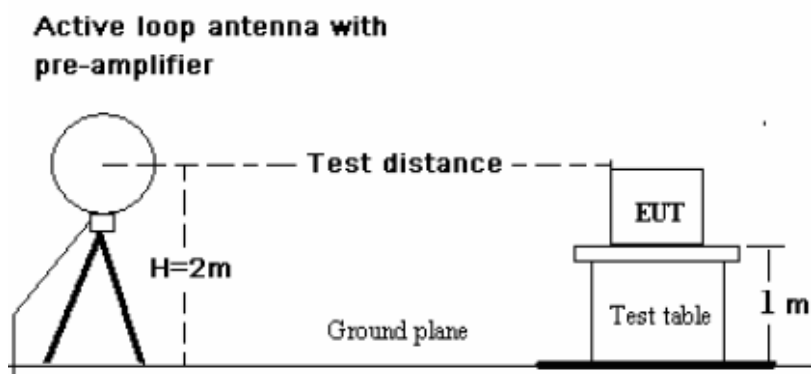
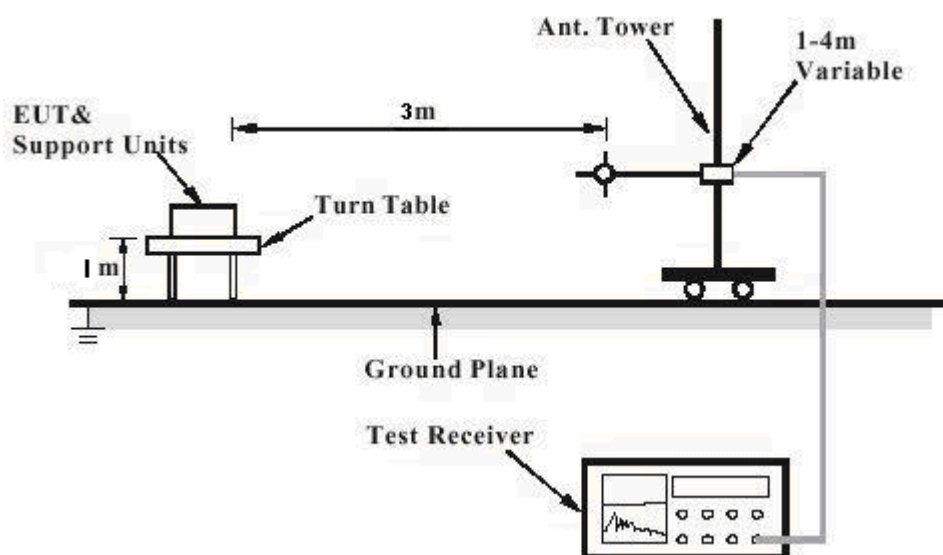


Diagram 2 of Measurement Equipment Configuration for Testing Radiated Emission



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

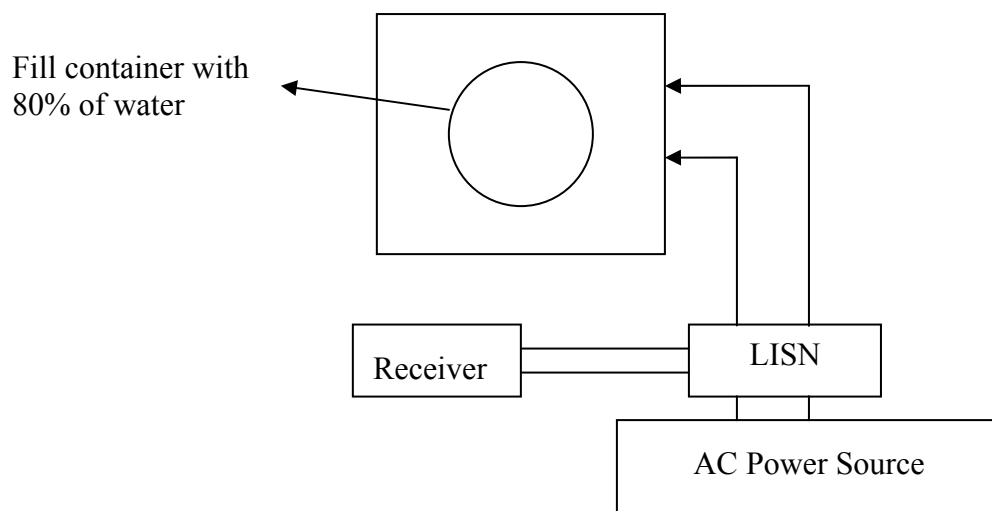
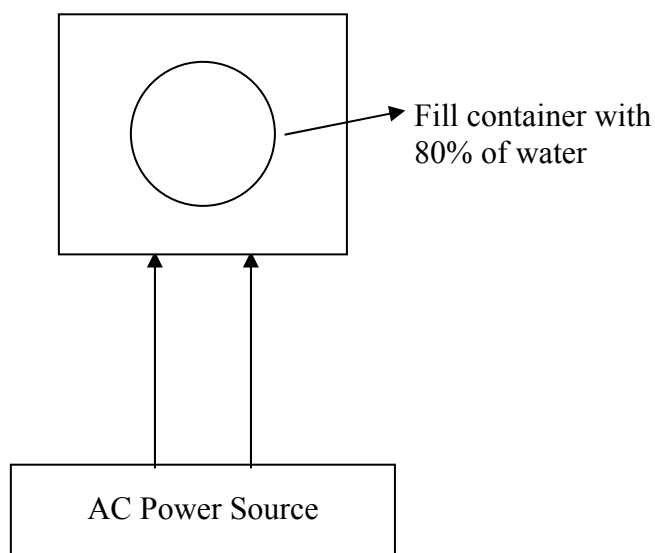


Diagram 4 of Equipment Configuration for Testing Radiated Emission



5 Test Results EMISSION

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

RESULT:

Pass

Date of testing	:	28.Jul.2010
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	:	23°C
Humidity	:	50%

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.

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Test Report no.:

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

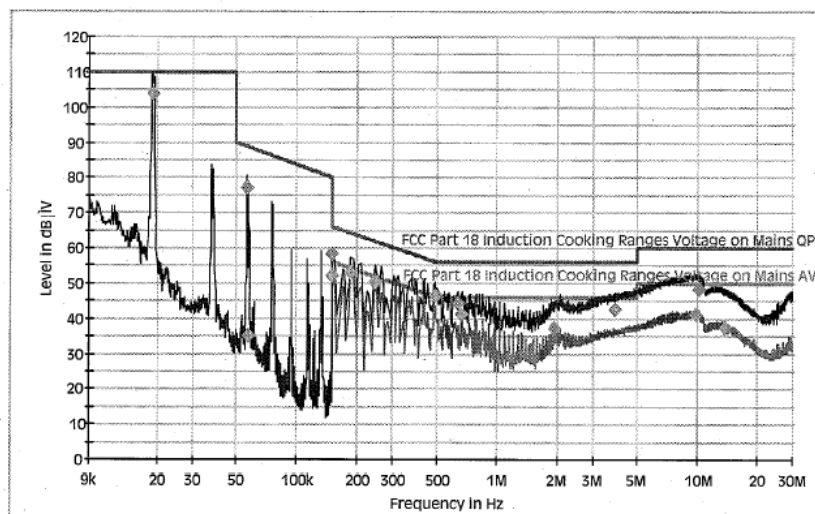
EMC Test Record (EMISSION)

Test Information

Manufacturer:	XinBao		
Test Item:	Induction Hotplate		
Identification:	B301		
Test Standard:	FCC Part 18		
Test Detail:	Conducted Emission		
Operation Mode:	A		
Climate Condition:	23°C;	50%RH;	101kPa.
Test Voltage/ Freq.:	AC 120V/	60Hz	
Port / Line:	AC Mains		
Receipt No.:	173054180		
Report No.:	16024352 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	200Hz	100Hz	50ms	ESCS 30
150kHz - 30MHz	Peak; Average	9kHz	4.5kHz	10ms	ESCS 30



2010-7-28, 11:45:09

Tested by:



Reviewed by:



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Final Measurement Detector 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.018900	103.9	1000.000	0.200	N
0.056400	77.1	1000.000	0.200	N
0.057600	34.9	1000.000	0.200	L1
0.150000	58.4	1000.000	9.000	N
0.492000	46.5	1000.000	9.000	N
0.640500	44.2	1000.000	9.000	N
3.912000	42.3	1000.000	9.000	N
10.108500	48.0	1000.000	9.000	L1

(continuation of the "Final Measurement Detector 1" table from column 5 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.018900	10.2	6.1	110.0	
0.056400	10.1	11.8	88.9	
0.057600	10.1	53.8	88.7	
0.150000	10.2	7.6	66.0	
0.492000	10.1	9.6	56.1	
0.640500	10.0	11.8	56.0	
3.912000	10.1	13.7	56.0	
10.108500	10.4	12.0	60.0	

Final Measurement Detector 2

Frequency (MHz)	Average (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Line
0.150000	52.1	1000.000	9.000	N
0.186000	53.0	1000.000	9.000	N
0.244500	50.3	1000.000	9.000	N
0.672000	41.2	1000.000	9.000	N
1.954500	37.1	1000.000	9.000	N
9.807000	41.0	1000.000	9.000	L1
13.717500	37.3	1000.000	9.000	L1

(continuation of the "Final Measurement Detector 2" table from column 5 ...)

Frequency (MHz)	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.150000	10.2	3.9	56.0	
0.186000	10.2	1.2	54.2	
0.244500	10.2	1.7	51.9	
0.672000	10.0	4.8	46.0	
1.954500	10.1	8.9	46.0	
9.807000	10.4	9.0	50.0	
13.717500	10.6	12.7	50.0	

2010-7-28, 11:45:09

Tested by:



Reviewed by:



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

RESULT:

Pass

Date of testing	:	14.Oct.2010
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	:	23°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.

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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.

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Test Report no.:

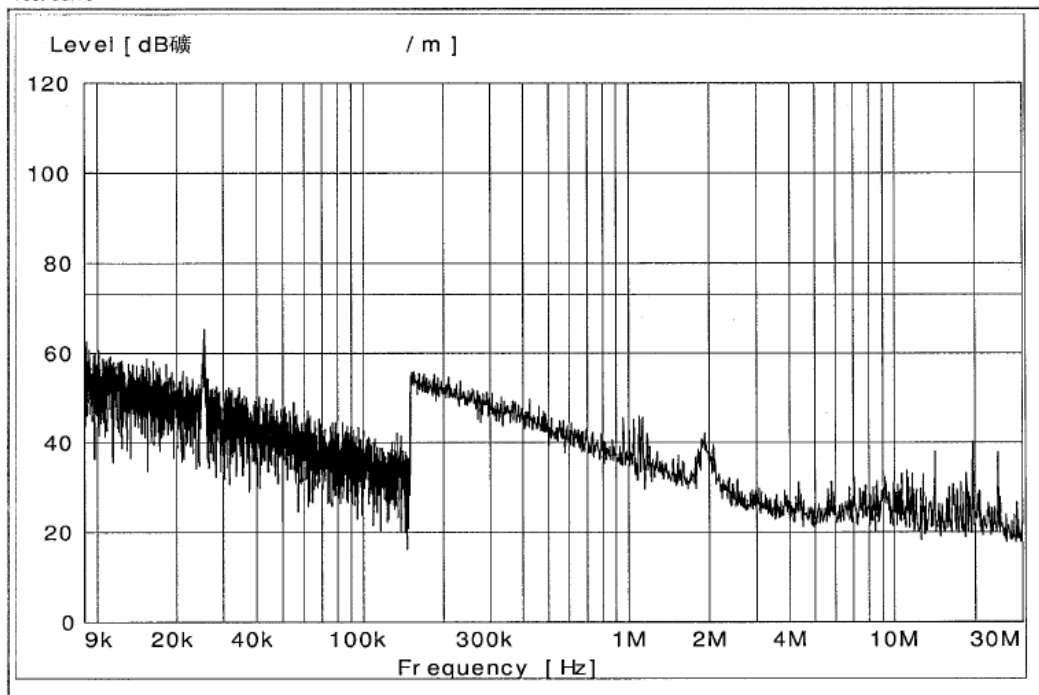
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SGS

Magnetic field Test Data Sheet

Job No.:	Date: 2010-10-14
Applicant: TUV	Standard: FCC Part 18
E.U.T.: Induction cooker	Model: B301
Polarization: <input type="checkbox"/> Line <input type="checkbox"/> Neutra <input type="checkbox"/> Power Clamp	Voltage: 120 V, <input checked="" type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> 50 Hz <input checked="" type="checkbox"/> 60 Hz
Memo: Test the EUT in heating mode with Maximum(H).	

Test Curve



Frequency (MHz)	Transducer (dB)	Receiver AV Reading (dBμV)	Receiver AV Level (dBμV)	Limit (dBμV)	Over Limit (dB)
0.009	19.7	33.1	52.8	73.0	-20.2
0.025	14.2	47.2	61.4	73.0	-11.6
0.155	12.0	34.8	46.8	73.0	-26.2
1.091	11.9	17.4	29.3	73.0	-43.7
1.915	12.1	19.9	32.0	73.0	-41.0
19.710	11.3	25.4	36.7	73.0	-36.3

H

Receiver AV Level=Receiver AV Reading + Transducer

Prüfbericht - Nr.: **16024352 001**
Test Report no.:

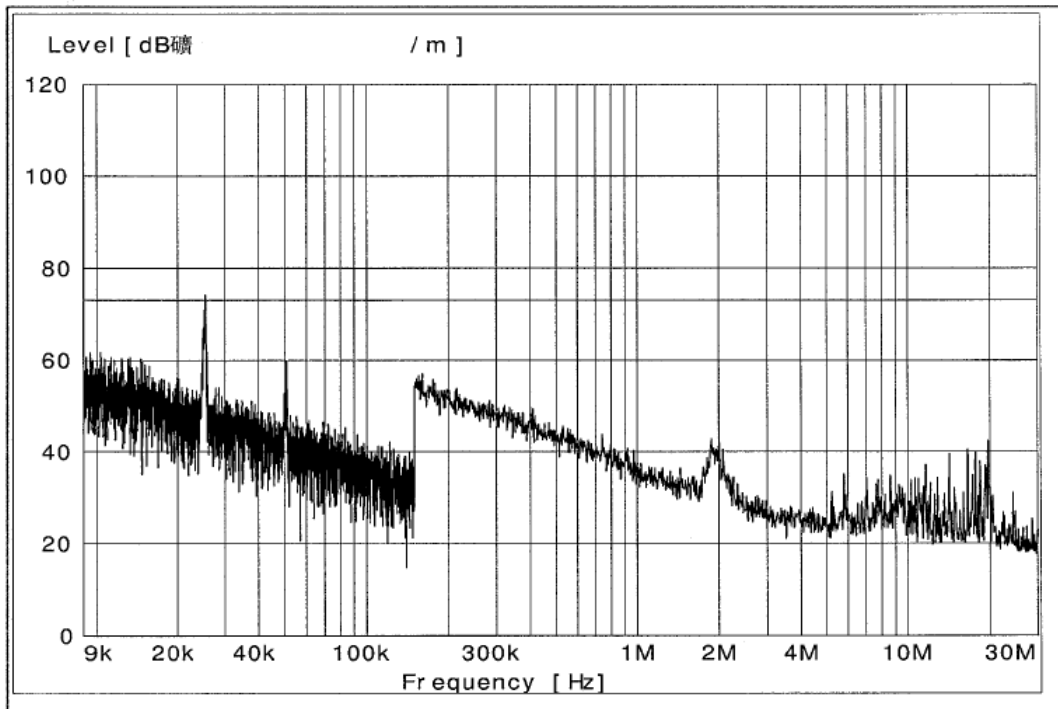
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SGS

Magnetic field Test Data Sheet

Job No.:	Date: 2010-10-14
Applicant: TUV	Standard: FCC Part 18
E.U.T.: Induction cooker	Model: B301
Polarization: <input type="checkbox"/> Line <input type="checkbox"/> Neutra <input type="checkbox"/> Power Clamp	Voltage: 120 V, <input checked="" type="checkbox"/> AC <input type="checkbox"/> DC <input type="checkbox"/> 50 Hz <input checked="" type="checkbox"/> 60 Hz
Memo: Test the EUT in heating mode with Maximum(V).	

Test Curve



Frequency (MHz)	Transducer (dB)	Receiver AV Reading (dBμV)	Receiver AV Level (dBμV)	Limit (dBμV)	Over Limit (dB)
0.025	14.2	56.6	70.8	73.0	-2.2
0.051	12.2	43.4	55.6	73.0	-17.4
0.160	12.0	34.7	46.7	73.0	-26.3
1.877	12.1	21.6	33.7	73.0	-39.3
14.151	11.6	22.6	34.2	73.0	-38.8
19.710	11.3	26.6	37.9	73.0	-35.1

V

Receiver AV Level=Receiver AV Reading + Transducer

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (EMISSION)

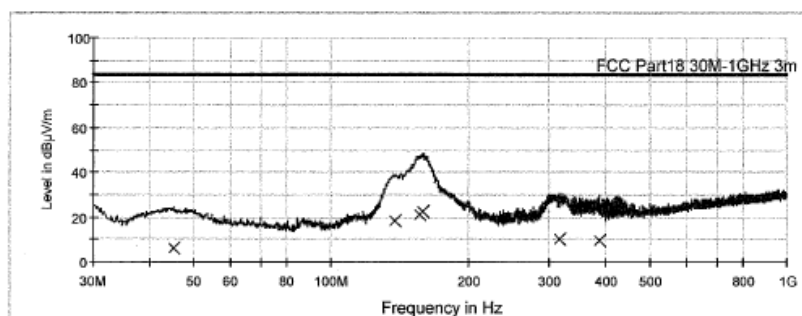
Test Information

Manufacturer: XinBao
Test Item: Induction Hotplate
Identification: B301
Test Standard: FCC Part 18
Test Detail: RE
Operation Mode: A
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq.: AC 120V / 60Hz
Receipt No.: 173054180
Report No.: 16024352 001
Result: Pass
Comment: Horizontal

Subrange 1

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

Pre TUV 30M to 1G UVLB9168



Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
45.150000	6.2	14.4	77.3	83.5	H
138.400000	18.6	14.8	64.9	83.5	H
155.800000	20.8	15.7	62.7	83.5	H
159.000000	22.7	15.6	60.8	83.5	H
316.700000	10.3	15.5	73.2	83.5	H
386.900000	9.3	17.0	74.2	83.5	H

Date: 29/07/2010 - Time: 20:34:09

Tested by:



Reviewed by:



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (EMISSION)

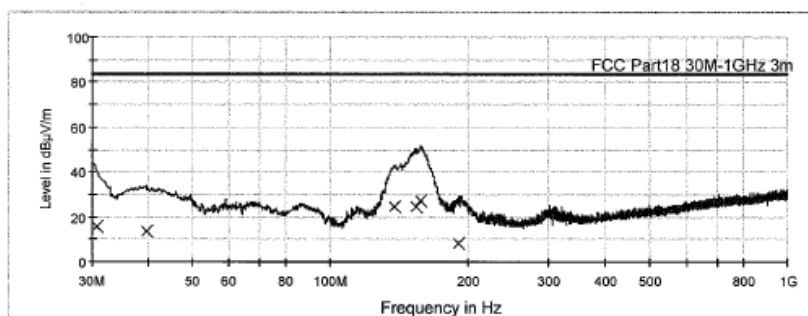
Test Information

Manufacturer:	XinBao
Test Item:	Induction Hotplate
Identification	B301
Test Standard:	FCC Part 18
Test Detail:	RE
Operation Mode:	A
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage / Freq. :	AC 120V / 60Hz
Receipt No.:	173054180
Report No.	16024352 001
Result:	Pass
Comment:	Vertical

Subrange 1

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

Pre TUV 30M to 1G UVLB9168



Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
30.800000	15.8	13.8	67.7	83.5	V
39.500000	13.5	14.8	70.0	83.5	V
137.800000	24.4	14.8	59.1	83.5	V
153.500000	24.3	15.7	59.2	83.5	V
157.800000	27.5	15.6	56.0	83.5	V
191.200000	8.1	12.1	75.4	83.5	V

Date: 29/07/2010 - Time: 20:23:17

Tested by:



Reviewed by:

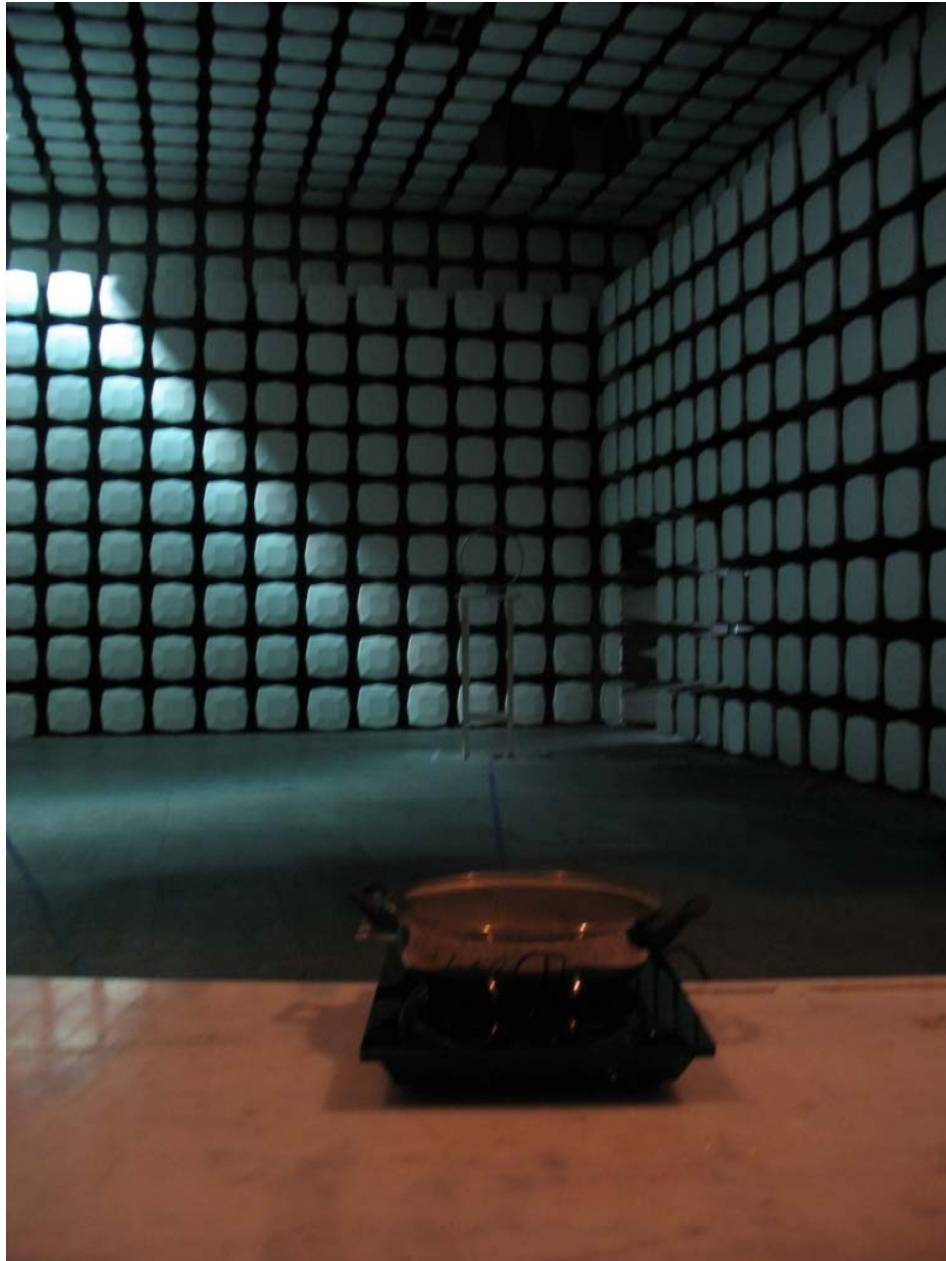


6 Photographs of the Test Set-Up

Photograph 1: Set-up for Conducted Emission



Photograph 2: Set-up for Radiated Emission



9 kHz – 30 MHz (10m distance)



30MHz - 1GHz (3m distance)

7 List of Tables

Table 1: List of Test and Measurement Equipment	5
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