



Produkte
Products

Prüfbericht - Nr.: <i>Test Report no.:</i>		16039038 001		Seite 1 von 30 <i>Page 1 of 30</i>	
Auftraggeber: <i>Client:</i>		Gree Electric Appliances Inc. of Zhuhai Jinji West Road, Qianshan Zhuhai, Guangdong 519070 P. R. China			
Gegenstand der Prüfung: <i>Test item:</i>		Humidifier			
Bezeichnung: <i>Identification:</i>		SC-3003, SC-4001 SCW-3003, SCW-4001 SU1400-CN, SU6000-CN	FCC ID: <i>FCC ID:</i>	GIOSC-3003 (for SC-3003); GIOSC-4001 (for SC-4001); GIOSCW-3003 (for SCW-3003, SCW-4001, SU1400-CN, SU6000-CN)	
Wareneingangs-Nr.: <i>Receipt no.:</i>		173064725	Eingangsdatum: <i>Date of receipt:</i>	2012.3.1	
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of test item at delivery:</i>		The samples are ok for testing.			
Prüfört: <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: 2010-10-1 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:			
2012.5.24	Jeffery Xie Project Manager		20. März 2012	Yvonne Zheng Project Manager	
<i>Datum</i> <i>Date</i>	<i>Name/ Stellung</i> <i>Name/Position</i>	<i>Unterschrift</i> <i>Signature</i>	<i>Datum</i> <i>Date</i>	<i>Name/ Stellung</i> <i>Name/Position</i>	<i>Unterschrift</i> <i>Signature</i>
Sonstiges / Other aspects:					
Abkürzungen:		<i>P(ass) = entspricht Prüfgrundlage</i>		Abbreviations:	
<i>F(ail) = entspricht nicht Prüfgrundlage</i>		<i>N/A = nicht anwendbar</i>		<i>P(ass) = passed</i>	
<i>N/T = nicht getestet</i>				<i>F(ail) = failed</i>	
				<i>N/A = not applicable</i>	
				<i>N/T = not tested</i>	
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

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory

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

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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	16.03.2013
EMI Test Receiver	ESIB 26	Rohde & Schwarz	100243	16.03.2013
Trilog-Broadband Antenna	VULB9168	Schwarzbeck	210	16.03.2013
Loop Antenna	HFH2-Z2	Rohde & Schwarz	100111	16.03.2013
Band Reject Filter	BRM50702	Micro-Tronics	023	16.03.2013
3m Semi-anechoic chamber	---	Albatross Projects	---	16.03.2013
EMI Test Receiver	ESCS30	Rohde & Schwarz	100316	16.03.2013
Noise generator	DM8899	DM	607014	16.03.2013
Artificial Mains Network	ESH2-Z5	Rohde&Schwarz	100114	16.03.2013
LISN	ESH3-Z5	Rohde&Schwarz	100308	16.03.2013
Pulse Limiter	ESH3-Z2	Rohde&Schwarz	100701	16.03.2013

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.

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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 is ± 4.94 dB.

2.6 Location of original data

The original copies of all test data taken during actual testing were attached on Page 14-19, 22-27 of this report and delivered to the applicant. A copy has been retained in the TÜV 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.

3 General Product Information

Brief description of the test samples:

The new submitted samples SC-3003, SC-4001, SCW-3003, SCW-4001, SU1400-CN, SU6000-CN are humidifiers with electronic control.

They have the same power board but different control board for atomization.

SCW-3003, SCW-4001 are the same, only their enclosure is different, and SCW-3003 has one more LED indicator.

SCW-3003, SU1400-CN are the same, only their model name is different.

SCW-4001, SU6000-CN are the same, only their model name is different.

According to above information, EMI tests were performed on three representative models SC-3003, SC-4001, SCW-3003.

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:	SCW-3003, SCW-4001 SU1400-CN, SU6000-CN	SC-3003, SC-4001
Rated Output:	20W	25W
System Input Voltage:	120V ~	
Frequency:	60Hz	
Protection Class	II	

Refer to this report Technical Documentation for further information.

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3.3 Independent Operation Modes

The basic operation modes are:

On
Off

3.4 Submitted Documents

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

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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

None.

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

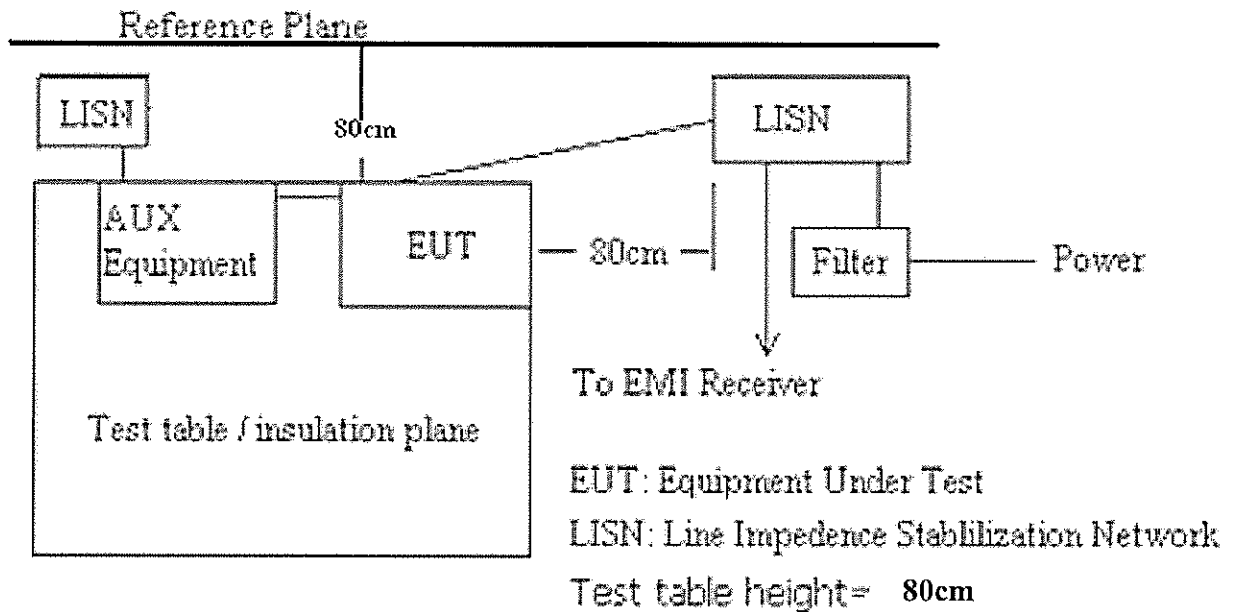


Diagram 2 of Measurement Equipment Configuration for Testing Radiated Emission

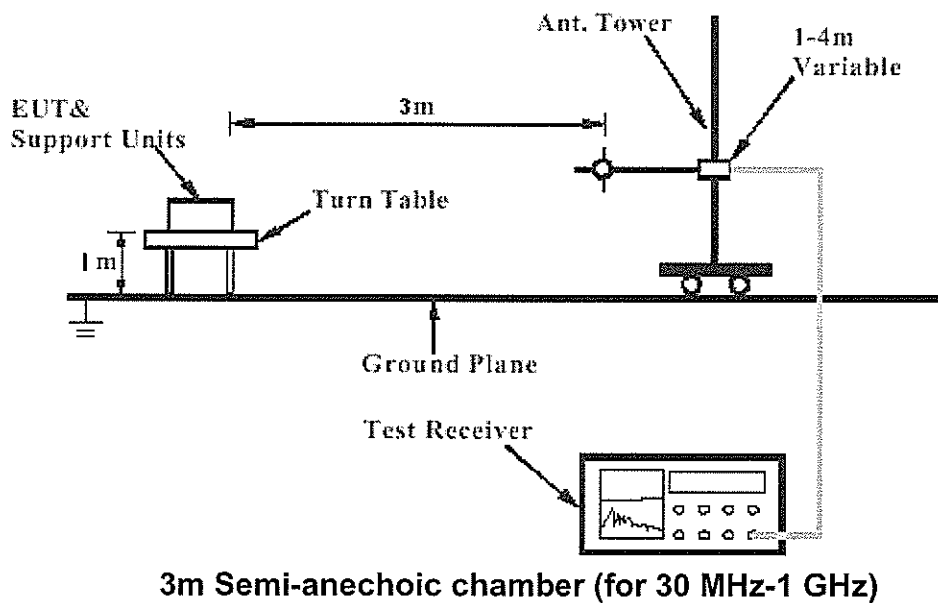
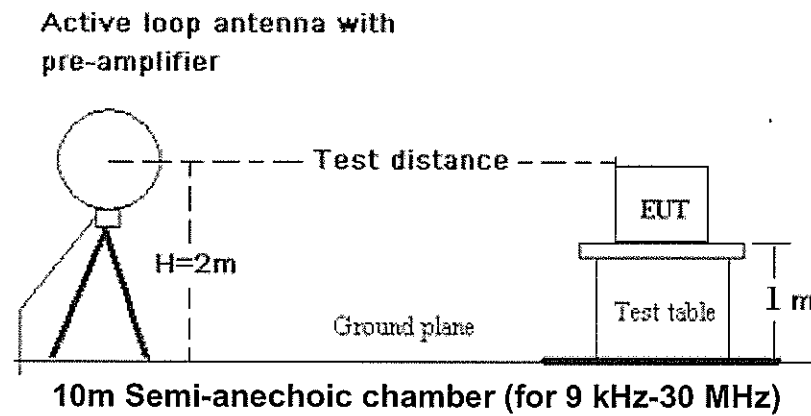


Diagram 3 of Equipment Configuration for Testing Conducted Emission

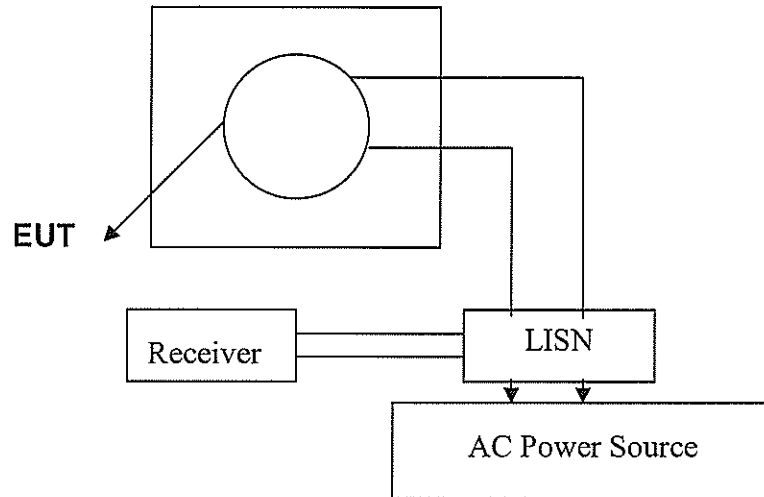
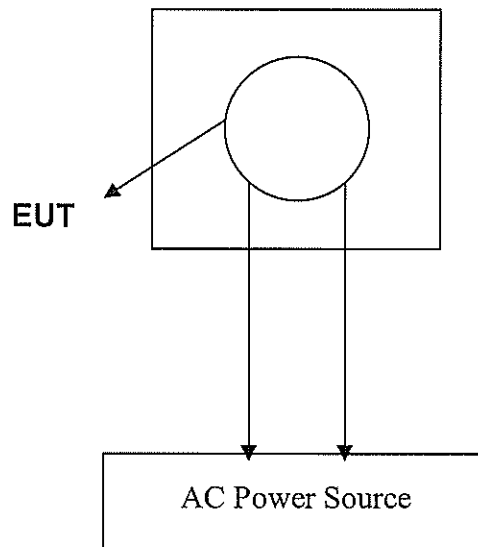


Diagram 4 of Equipment Configuration for Testing Radiated Emission



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5 Test Results EMISSION

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

RESULT: **Pass**

Date of testing	:	06.03.2012
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 water
Temperature	:	20°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 and choose N or L1 on the LISN.
4. Connect ESCI and LISN via a 50-ohm coaxial cable and a pulse limiter then begin exploratory measurement.
5. Make final measurement.
6. Switch to the other line on the LISN and repeat step 3 to 5.

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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EMC Test Record (EMISSION)

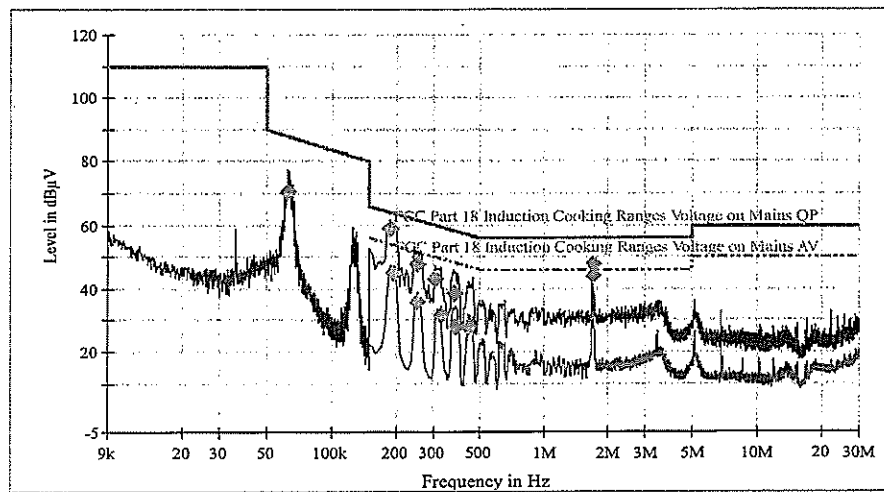
Test Information

Manufacturer: GREE
Test Item: Humidifier
Identification: SC-3003
Test Standard: FCC Part 18
Test Detail: Conducted Emission
Operation Mode: A
Climate Condition: 20°C; 50%RH; 101 kPa.
Test Voltage/ Freq.: AC120 V/ 60 Hz
Port / Line: AC Mains (L1+N)
Receipt No.: 173064725 100
Report No.: 16039038 001
Result:
Comment: /

Hardware Setup: 1phase LISN ESH3-Z5 to ESCS 30
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

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



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Tested by: _____

Reviewed by: _____



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Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.062200	70.5	1000.0	0.200	GN	N	10.2	17.5	88.0	
0.186000	58.8	1000.0	9.000	GN	L1	10.2	5.4	64.2	
0.253500	47.6	1000.0	9.000	GN	L1	10.1	14.0	61.6	
0.307500	43.4	1000.0	9.000	GN	N	9.9	16.6	60.0	
0.375000	38.5	1000.0	9.000	GN	L1	10.0	19.9	58.4	
1.707000	47.7	1000.0	9.000	GN	N	10.2	8.3	56.0	

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.195000	45.1	1000.0	9.000	GN	L1	10.2	8.7	53.8	
0.253500	35.7	1000.0	9.000	GN	L1	10.1	15.9	51.6	
0.325500	31.6	1000.0	9.000	GN	N	9.9	18.0	49.6	
0.384000	27.8	1000.0	9.000	GN	L1	10.0	20.4	48.2	
0.442500	27.8	1000.0	9.000	GN	L1	9.9	19.2	47.0	
1.707000	44.0	1000.0	9.000	GN	N	10.2	2.0	46.0	

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Tested by:



Reviewed by:



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EMC Test Record (EMISSION)

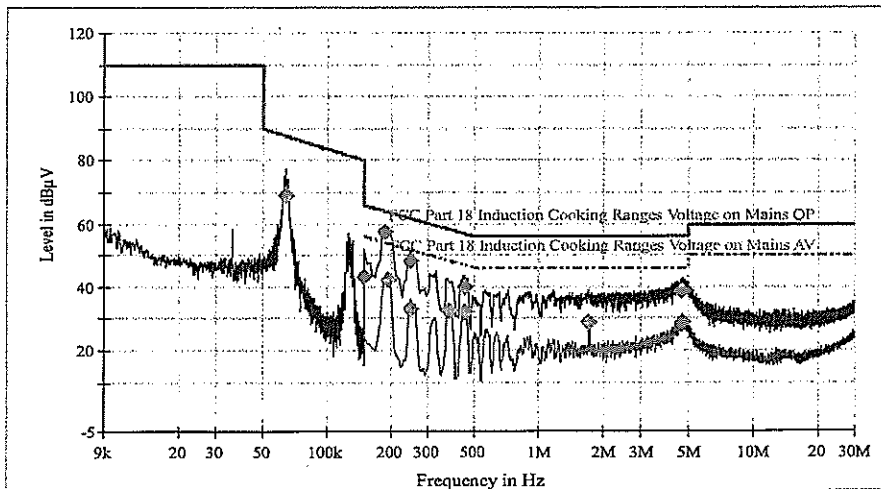
Test Information

Manufacturer:	GREE		
Test Item:	Humidifier		
Identification:	SCW-3003		
Test Standard:	FCC Part 18		
Test Detail:	Conducted Emission		
Operation Mode:	A		
Climate Condition:	20°C;	50%RH;	101 kPa.
Test Voltage/ Freq.:	AC120 V/	60 Hz	
Port / Line:	AC Mains (L1+N)		
Receipt No.:	173064725 100		
Report No.:	16039038 001		
Result:	Pass		
Comment:	/		

Hardware Setup: 1phase LISN ESH3-Z5 to ESCS 30
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

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



3/6/2012, 9:45:22

Tested by: _____ Reviewed by: _____



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Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.063800	69.0	1000.0	0.200	GN	L1	10.2	18.8	87.8	
0.150000	43.4	1000.0	9.000	GN	L1	10.2	22.6	66.0	
0.186000	57.3	1000.0	9.000	GN	L1	10.2	6.9	64.2	
0.249000	48.4	1000.0	9.000	GN	L1	10.2	13.4	61.8	
0.447000	40.1	1000.0	9.000	GN	N	9.9	16.8	56.9	
4.609500	38.5	1000.0	9.000	GN	N	10.3	17.5	56.0	

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.195000	42.3	1000.0	9.000	GN	L1	10.2	11.5	53.8	
0.249000	33.0	1000.0	9.000	GN	L1	10.2	18.8	51.8	
0.375000	32.4	1000.0	9.000	GN	N	10.0	16.0	48.4	
0.447000	31.8	1000.0	9.000	GN	N	9.9	15.1	46.9	
1.725000	28.8	1000.0	9.000	GN	N	10.2	17.2	46.0	
4.672500	28.8	1000.0	9.000	GN	N	10.3	17.2	46.0	

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Tested by:



Reviewed by: _____



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EMC Test Record (EMISSION)

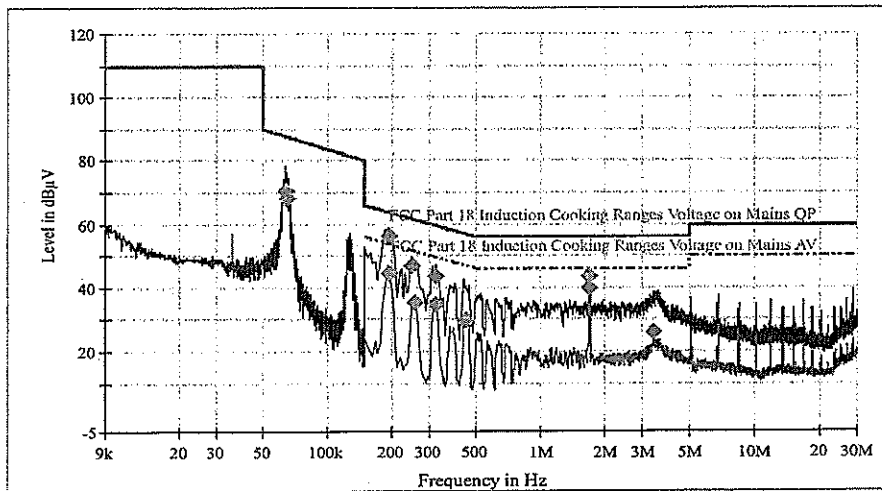
Test Information

Manufacturer: GREE
Test Item: Humidifier
Identification: SC-4001
Test Standard: FCC Part 18
Test Detail: Conducted Emission
Operation Mode: A
Climate Condition: 20°C; 50%RH; 101 kPa.
Test Voltage/ Freq.: AC120 V/ 60 Hz
Port / Line: AC Mains (L1+N)
Receipt No.: 173064725 100
Report No.: 16039038 001
Result: Pass
Comment: /

Hardware Setup: 1phase LISN ESH3-Z5 to ESCS 30
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

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



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Tested by:



Reviewed by:



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Final Result 1


Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.063400	70.3	1000.0	0.200	GN	L1	10.2	17.5	87.8	
0.064800	68.4	1000.0	0.200	GN	N	10.2	19.2	87.6	
0.195000	55.9	1000.0	9.000	GN	N	10.2	7.9	63.8	
0.249000	46.8	1000.0	9.000	GN	L1	10.2	15.0	61.8	
0.321000	43.7	1000.0	9.000	GN	N	9.9	16.0	59.7	
1.693500	43.4	1000.0	9.000	GN	L1	10.1	12.6	56.0	

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.195000	44.4	1000.0	9.000	GN	N	10.2	9.4	53.8	
0.258000	35.2	1000.0	9.000	GN	N	9.9	16.3	51.5	
0.321000	34.9	1000.0	9.000	GN	N	9.9	14.8	49.7	
0.451500	29.5	1000.0	9.000	GN	N	9.9	17.3	46.8	
1.698000	39.7	1000.0	9.000	GN	L1	10.1	6.3	46.0	
3.394500	26.2	1000.0	9.000	GN	N	10.4	19.8	46.0	

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Tested by  2012-05-07

Reviewed by  2012-05-07

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

RESULT:

Pass

Date of testing : 06.03.2012
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 water
Temperature : 23°C
Humidity : 50%

Test procedure:

9 kHz-30MHz *)

1. An initial pre-scan was performed in the 3m 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 each suspected emission frequency points 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.
4. Final measurement was performed in the 10m chamber, step 2 and step 3 are repeated, for each suspected emission frequency point, the EUT was arranged to its worst case and the EUT was turned from 0 degrees to 360 degrees to read the maximum emission.

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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.

*) According to Section 18.307(f) "For ultrasonic equipment, compliance with the conducted limits shall preclude the need to show compliance with the field strength limits below 30 MHz unless requested by the Commission."
Since the EUT complies with the conducted limits, no field strength measurement below 30MHz is required.

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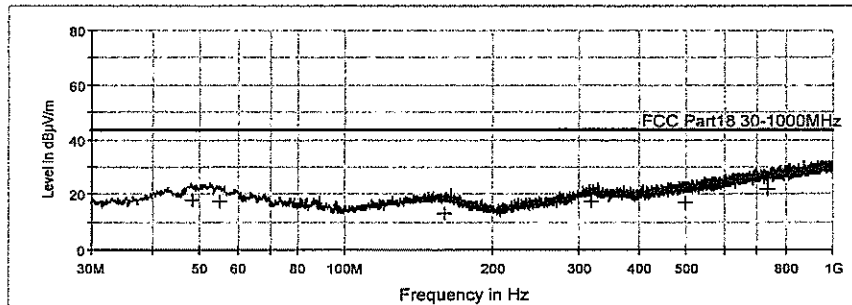
EMC Test Record (Emission)

Common Information

Manufacturer: GREE
Test Item: Humidifier
Identification: SC-3003
Test Standard: FCC Part 18
Test Detail: RE
Operation Mode: A
Climate Condition: 23°C, 50 %RH; 101 kPa
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173064725 100
Report No: 16039038 001
Result: Pass
Comment: Test distance is 3m, Horizontal

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

Pre TUV 30M to 1G UVLB9168



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBµV/m)	Polarization
48.550000	18.1	14.6	25.4	43.5	H
55.200000	17.4	14.3	26.1	43.5	H
160.200000	12.8	16.1	30.7	43.5	H
320.650000	17.4	16.1	26.1	43.5	H
497.400000	16.8	20.0	26.7	43.5	H
737.500000	21.7	24.5	21.8	43.5	H

Date: 3/6/2012 - Time: 10:24:51

Tested by: _____ Reviewed by: _____



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

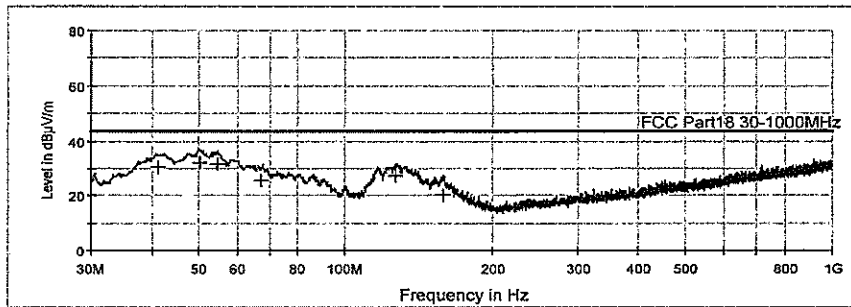
EMC Test Record (Emission)

Common Information

Manufacturer: GREE
Test Item: Humidifier
Identification: SC-3003
Test Standard: FCC Part 18
Test Detail: RE
Operation Mode: A
Climate Condition: 23°C, 50 %RH; 101 kPa
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173064725 100
Report No: 16039038 001
Result: Pass
Comment: Test distance is 3m, Vertical

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

Pre TUV 30M to 1G UVLB9168



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin QPK (dB)	Limit-QPK (dBµV/m)	Polarization
41.500000	30.5	14.9	13.0	43.5	V
50.350000	32.0	14.6	11.5	43.5	V
55.100000	31.3	14.3	12.2	43.5	V
67.700000	25.3	12.5	18.2	43.5	V
127.950000	27.0	14.4	16.5	43.5	V
159.000000	20.3	16.1	23.2	43.5	V

Date: 3/6/2012 - Time: 10:27:15

Tested by  Reviewed by: 

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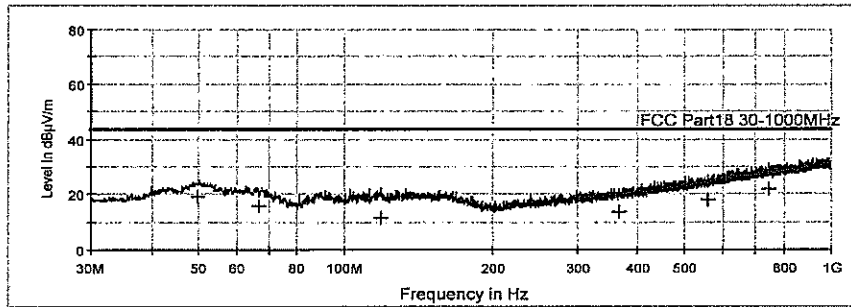
EMC Test Record (Emission)

Common Information

Manufacturer: GREE
Test Item: Humidifier
Identification: SCW-3003
Test Standard: FCC Part 18
Test Detail: RE
Operation Mode: A
Climate Condition: 23°C, 50 %RH; 101 kPa
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173064725 100
Report No: 16039038 001
Result: Pass
Comment: Test distance is 3m, Horizontal

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

Pre TUV 30M to 1G UVLB9168



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin-QPK (dB)	Limit-QPK (dBµV/m)	Polarization
50.150000	19.0	14.6	24.5	43.5	H
66.850000	15.8	12.7	27.7	43.5	H
119.000000	11.6	13.7	31.9	43.5	H
365.750000	13.4	17.2	30.1	43.5	H
558.050000	17.7	21.3	25.8	43.5	H
749.400000	21.9	24.7	21.6	43.5	H

Date: 3/6/2012 - Time: 10:18:42

Tested by: _____ Reviewed by: _____



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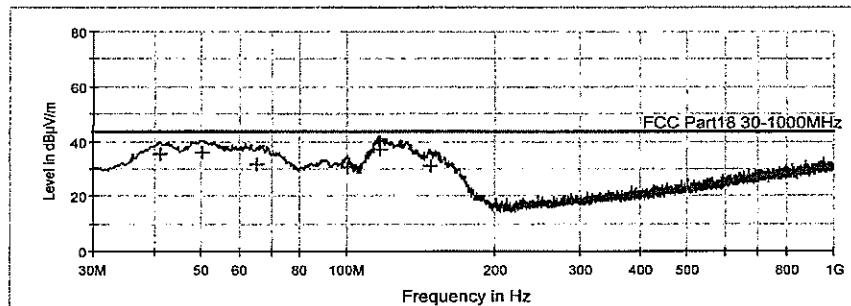
EMC Test Record (Emission)

Common Information

Manufacturer: GREE
Test Item: Humidifier
Identification: SCW-3003
Test Standard: FCC Part 18
Test Detail: RE
Operation Mode: A
Climate Condition: 23°C, 50 %RH; 101 kPa
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173064725 100
Report No: 16039038 001
Result: Pass
Comment: Test distance is 3m, Vertical

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

Pre TUV 30M to 1G UVLB9168



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin-QPK (dB)	Limit-QPK (dBµV/m)	Polarization
41.400000	35.3	14.9	8.2	43.5	V
50.350000	35.8	14.6	7.7	43.5	V
65.550000	31.3	12.9	12.2	43.5	V
100.350000	30.2	11.7	13.3	43.5	V
116.950000	37.0	13.5	6.5	43.5	V
148.200000	30.9	15.9	12.6	43.5	V

Date: 3/6/2012 - Time: 10:10:38

Tested by: _____ Reviewed by: _____



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EMC Test Service Hotline: +86-20-28391188

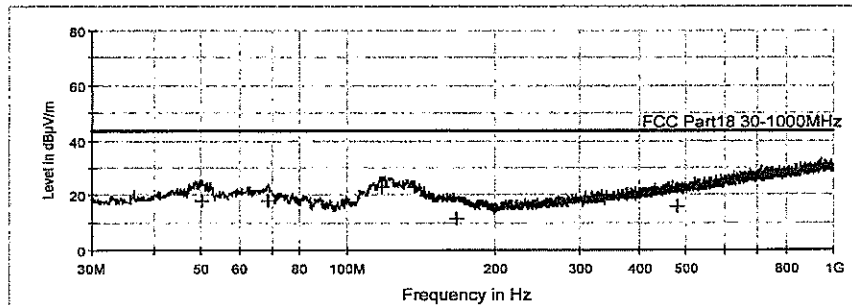
EMC Test Record (Emission)

Common Information

Manufacturer: GREE
Test Item: Humidifier
Identification: SC-4001
Test Standard: FCC Part 18
Test Detail: RE
Operation Mode: A
Climate Condition: 23°C, 50 %RH; 101 kPa
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173064725 100
Report No: 16039038 001
Result: Pass
Comment: Test distance is 3m, Horizontal

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

Pre TUV 30M to 1G UVLB9168



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)	Polarization
50.500000	18.2	14.6	25.3	43.5	H
69.150000	18.2	12.3	25.3	43.5	H
118.400000	22.8	13.7	20.7	43.5	H
137.200000	22.7	15.1	20.8	43.5	H
168.250000	11.4	15.3	32.1	43.5	H
480.100000	16.0	19.8	27.5	43.5	H

Date: 3/6/2012 - Time: 10:50:55

Tested by:  Reviewed by: 

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EMC Test Service Hotline: +86-20-28391188

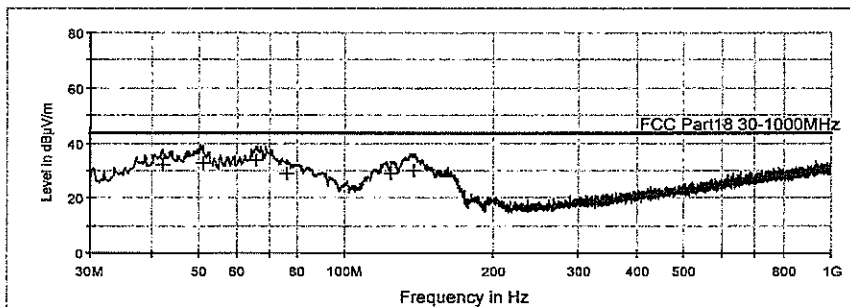
EMC Test Record (Emission)

Common Information

Manufacturer: GREE
Test Item: Humidifier
Identification: SC-4001
Test Standard: FCC Part 18
Test Detail: RE
Operation Mode: A
Climate Condition: 23°C, 50 %RH; 101 kPa
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 173064725 100
Report No: 16039038 001
Result: Pass
Comment: Test distance is 3m, Vertical

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

Pre TUV 30M to 1G UVLB9168



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBµV/m)	Polarization
42.250000	32.3	14.9	11.2	43.5	V
51.100000	32.6	14.6	10.9	43.5	V
66.150000	33.8	12.8	9.7	43.5	V
76.200000	28.6	11.2	14.9	43.5	V
124.800000	28.9	14.2	14.6	43.5	V
139.250000	30.0	15.3	13.5	43.5	V

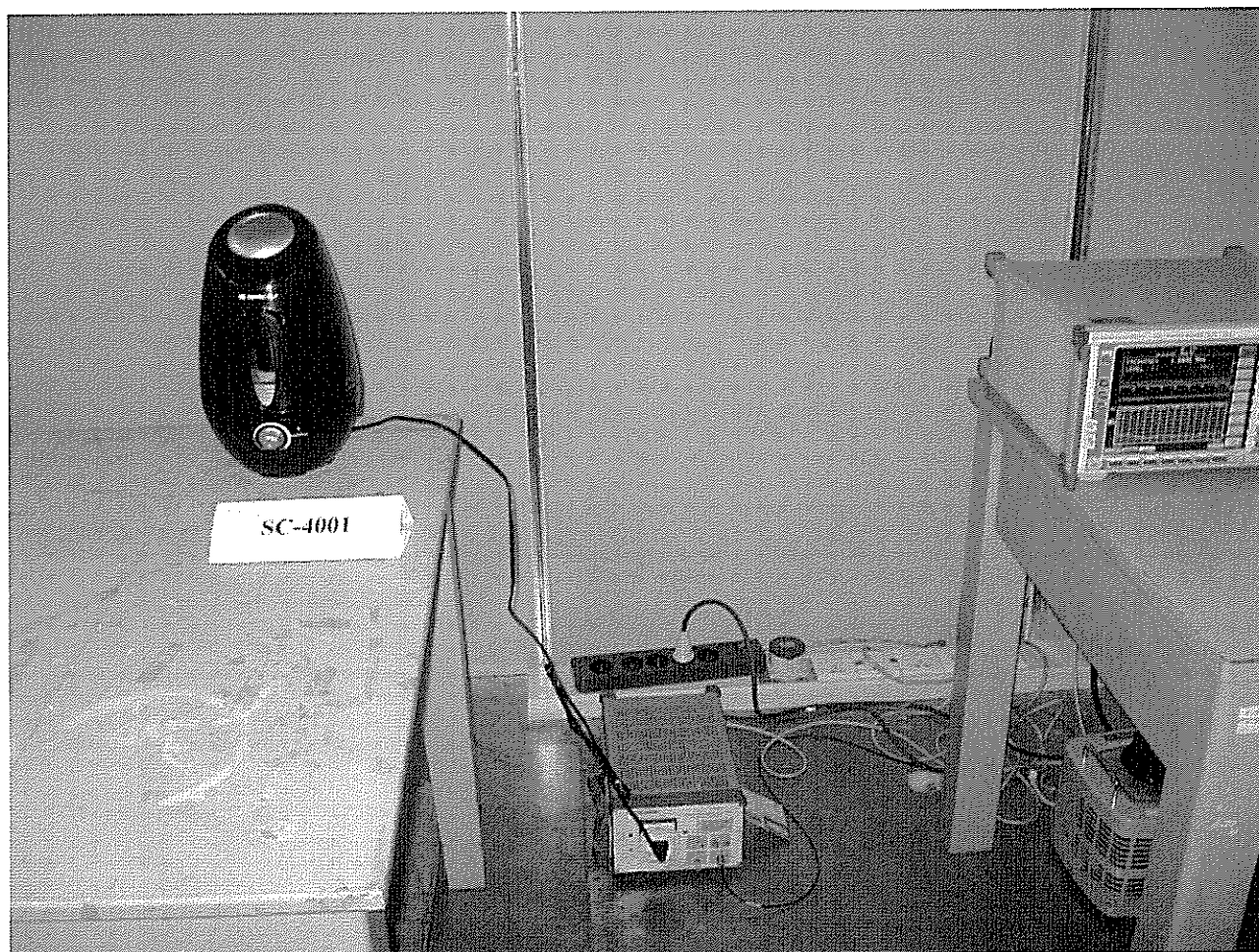
Date: 3/6/2012 - Time: 10:31:46

Tested by:  Reviewed by: 

6 Photographs of the Test Set-Up

Test set-up of all tested samples SC-3003, SC-4001, SCW-3003 are the same. SC-4001 is as representative one.

Photograph 1: Set-up for Conducted Emission



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Photograph 2: Set-up for Radiated Emission



30MHz - 1GHz (3m distance)

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