

# [Shenzhen weicejiance Testing Technology Co.,LTD Testing Report]

## CE EMC TEST REPORT

Equipment under Test : Colorful humidifier

Trade Name : /

Model /Type : SL808

Listed Models : /

**Applicant** : Shenzhen Xinsenli Technology Co., Ltd

Address : 101, Building 2, Chunhu Industrial Zone, Pinghu Street, Longgang District, Shenzhen, China

**Manufacturer** : Shenzhen Xinsenli Technology Co., Ltd

Address : 101, Building 2, Chunhu Industrial Zone, Pinghu Street, Longgang District, Shenzhen, China

**Laboratory** : Shenzhen weicejiance Testing Technology Co., LTD

Address : Building E, Science Park, Shajing Street, Baoan District, Shenzhen City, China

Tel : +86)-0755-6189999

Fax : +(86)-0755-6187777

Website : <http://www.wot-test.cn>

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

<b>Test Result:</b>	<b>PASS</b>
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## TEST RESULT CERTIFICATION

**Applicant's name**.....: Shenzhen Xinsenli Technology Co., Ltd  
**Address**.....: 101, Building 2, Chunhu Industrial Zone, Pinghu Street,  
Longgang District, Shenzhen, China  
**Manufacture's Name**.....: Shenzhen Xinsenli Technology Co., Ltd  
**Address**.....: 101, Building 2, Chunhu Industrial Zone, Pinghu Street,  
Longgang District, Shenzhen, China  
**Product description**  
**Product name**.....: Colorful humidifier  
**Test Model**.....: SL808  
EN 55014-1:2017  
EN 55014-2:2015  
EN 61000-3-2:2019, EN 61000-3-3:2013+A1:2019  
**Standards**.....: EN 61000-4-2:2018, EN 61000-4-3:2006+A1:2008  
+A2:2010, EN 61000-4-4:2012  
EN 61000-4-5:2014+A1:2017, EN 61000-4-6:2014  
EN 61000-4-8:2010, EN 61000-4-11:2020

This device described above has been tested by WEICE, and the test results show that the equipment under test (EUT) is in compliance with the 2014/30/EU requirements. And it is applicable only to the tested sample identified in the report.

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**Date of Test**.....: September 12, 2023  
**Date (s) of performance of tests**.....: September 12, 2023~ September 21, 2023  
**Date of Issue**.....: September 21, 2023  
**Test Result**.....: **Pass**

Testing Engineer : *lake*

Technical Manager : *keep*

Manager : **Ganwei**



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**1. TEST SUMMARY**

Test procedures according to the technical standards:

<b>EMC Emission</b>				
Standard	Test Item	Test Specification	Judgment	Remark
EN 55014-1:2017 EN 55014-2015	Conducted Emission	Article 6	PASS	
	Radiated Emission	Article 6	PASS	
EN IEC 61000-3-2:2019	Harmonic Current Emission	Class C	PASS	
EN 61000-3-3:2013 +A1:2019	Voltage Fluctuations & Flicker	-----	PASS	
<b>EMC Immunity</b>				
Section EN 61547:2009	Test Item	Performance Criteria	Judgment	Remark
EN 61000-4-2:2009	Electrostatic Discharge	B	PASS	
EN 61000-4-3:2006+A1:2008 +A2:2010	RF electromagnetic field	A	PASS	
EN 61000-4-4:2012	Fast transients	B	N/A	
EN 61000-4-5:2006	Surges	B	N/A	
EN 61000-4-6:2014	Injected Current	A	N/A	
EN 61000-4-8:2010	Power Frequency Magnetic Field	A	N/A	
EN IEC 61000-4-11:2020	Volt. Interruptions Volt. Dips	B / C	N/A	

**NOTE:**

(1) "N/A" denotes test is not applicable in this Test Report

(2) For client's request and manual description, the test will not be executed.

## 1.1 TEST FACILITY

Shenzhen weicejiance Testing Technology Co., LTD

Add. : Building E, Science Park, Shajing Street, Baoan District, Shenzhen City, China

## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$  · where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2** · providing a level of confidence of approximately **95 %**.

Test Item	Uncertainty
Conducted Emission	2.6dB
Radiated Emission(Below 1G)	4.56dB(distance:3m; Polarize:V)
	4.42dB(distance:3m; Polarize:H)
Radiated Emission(1GHz-18GHz)	3.78dB(distance:3m; Polarize:V)
	3.69dB(distance:3m; Polarize:H)
Flicker test	1.7%
Harmonic test	1.88dB
R/S Test	0.92dB
C/S Test	0.68 dB
Test Site Temperature And Humidity	0.6°C
	3%



## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Colorful humidifier
Test Model	SL808
Additional Model Number(s)	/
Model Difference	The model name is different and everything else is the same
Power Rating	2.5W
<b>NOTE:</b> <ol style="list-style-type: none"><li>1. For the test results, the EUT had been tested with all conditions. But only the worst case was showed in test report.</li><li>2. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.</li><li>3. This is a series of switching power supply with the same PCB layout, different power and output voltage, all test for representative of the maximum output Power, Voltage and Current.</li></ol>	

## 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Running

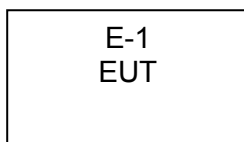
For Conducted Test	
Final Test Mode	Description
Mode 1	Running

For Radiated Test	
Final Test Mode	Description
Mode 1	Running

For EMS Test	
Final Test Mode	Description
Mode 1	Running

## 2.3 DESCRIPTION OF TEST SETUP

Mode 1:



## 2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Colorful humidifier	/	SL808	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” means “shielded” “with core”; “NO” means “unshielded” “without core”.

## 2.5 MEASUREMENT INSTRUMENTS LIST

## 2.5.1 CONDUCTED EMISSION

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	LISN	R&S	ENV216	101334	Apr. 10,21	Apr. 09,23	1 year
2	LISN	SCHWARZBECK	NNLK 8129	8129267	Apr. 10,21	Apr. 09,23	1 year
3	Pulse Limiter	SCHWARZBECK	VTSD 9561F	9716	Apr. 10,21	Apr. 09,23	1 year
4	50Ω Switch	ANRITSU CORP	MP59B	6200983704	Apr. 10,21	Apr. 09,23	1 year
5	Test Cable	N/A	C01	N/A	Apr. 10,21	Apr. 09,23	1 year
6	Test Cable	N/A	C02	N/A	Apr. 10,21	Apr. 09,23	1 year
7	Test Cable	N/A	C03	N/A	Apr. 10,21	Apr. 09,23	1 year
8	EMI Test Receiver	R&S	ESCI	101318	Apr. 10,21	Apr. 09,23	1 year
9	Passive Voltage Probe	ESH2-Z3	R&S	100173	Apr. 10,21	Apr. 09,23	1 year
10	Triple-Loop Antenna	EVERFINE	LIA-2	11020016	Apr. 10,21	Apr. 09,23	1 year
11	Absorbing Clamp	R&S	MDS-21	100423	Apr. 10,21	Apr. 09,23	1 year

## 2.5.2 RADIATED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Bilog Antenna	TESEQ	CBL6111D	31437	Apr. 10,21	Apr. 09,23	1 year
2	Test Cable	N/A	R-01	N/A	Apr. 10,21	Apr. 09,23	1 year
3	Test Cable	N/A	R-02	N/A	Apr. 10,21	Apr. 09,23	1 year
4	EMI Test Receiver	Rohde&Schwarz	ESVD	847312/008	Apr. 10,21	Apr. 09,23	1 year
5	Antenna Mast	EM	SC100_1	N/A	N/A	N/A	N/A
6	Turn Table	EM	SC100	060533	N/A	N/A	N/A
7	50Ω Switch	Anritsu Corp	MP59B	6200983705	Apr. 10,21	Apr. 09,23	1 year
8	Spectrum Analyzer	Aglient	E4407B	160400005	Apr. 10,21	Apr. 09,23	1 year
9	Horn Antenna	EM	EM-AH-10180	2011071402	Apr. 10,21	Apr. 09,23	1 year

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10	Amplifier	EM	EM-30180	060536	Apr. 10,21	Apr. 09,23	1 year
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## 2.5.3 HARMONICS AND FILCK

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Harmonic & Flicker	EM TEST	DPA500	0303-08	Apr. 10,21	Apr. 09,23	1 year
2	AC Power Source	EM TEST	ACS500	0203-06	Apr. 10,21	Apr. 09,23	1 year

## 2.5.4ESD

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	ESD TEST GENERATOR	SCHAFFNER	NSG438	858	Apr. 10,21	Apr. 09,23	1 year

## 2.5.5 RS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Signal Generator	R&S	SMT 06	832080/007	Apr. 10,21	Apr. 09,23	1 year
2	Log-Bicon Antenna	Schwarzbeck	VULB9161	4022	Apr. 10,21	Apr. 09,23	1 year
3	Power Amplifier	AR	150W1000M1	320946	Apr. 10,21	Apr. 09,23	1 year
4	Microwave Horn Antenna	AR	AT4002A	321467	Apr. 10,21	Apr. 09,23	1 year
5	Power Amplifier	AR	25S1G4A	308598	Apr. 10,21	Apr. 09,23	1 year

## 2.5.6 SURGE, EFT/BURST, VOLTAGE INTERRUPTION/DIPS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Surge Generator	EVERFINE	EMS61000-5A	1101002	Apr. 10,21	Apr. 09,23	1 year
2	DIPS Generator	EVERFINE	EMS61000-11 K	1011002	Apr. 10,21	Apr. 09,23	1 year
3	EFT/B Generator	EVERFINE	EMS61000-4A-V2	1012005	Apr. 10,21	Apr. 09,23	1 year

## 2.5.7 INJECTION CURRENT

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
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1	Signal Generator	IFR	2023A	202301/368	Apr. 10,21	Apr. 09,23	1 year
2	Power Amplifier	AR	75A250AM1	0320709	Apr. 10,21	Apr. 09,23	1 year
3	CDN	FCC	FCC-801-M2	06043	Apr. 10,21	Apr. 09,23	1 year
4	EM Clamp	FCC	F-203I-23MM	504	Apr. 10,21	Apr. 09,23	1 year

2.5.8 MF

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Generator	EVERFINE	EMS61000-8K	1007001	Apr. 10,21	Apr. 09,23	1 year

**3. EMC EMISSION TEST****3.1 CONDUCTED EMISSION MEASUREMENT****3.1.1 POWER LINE CONDUCTED EMISSION** (Frequency Range 9KHz-30MHz)

FREQUENCY (MHz)		
	Quasi-peak	Average
0.009-0.05	110	
0.05-0.15	90 - 80 *	
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note:

- (1) The tighter limit applies at the band edges.  
 (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

**3.1.2 LOAD TERMINAL CONDUCTED EMISSION** (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)		
	Quasi-peak	Average
0.15 -0.5	80	70
0.50 -30.0	74	64

Note:

- (1) The tighter limit applies at the band edges.

**3.1.3 CONTROL TERMINAL CONDUCTED EMISSION** (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)		
	Quasi-peak	Average
0.15 -0.5	84 - 74*	74 - 64*
0.50 -30.0	74	64

Note:

- (1) The tighter limit applies at the band edges.  
 (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

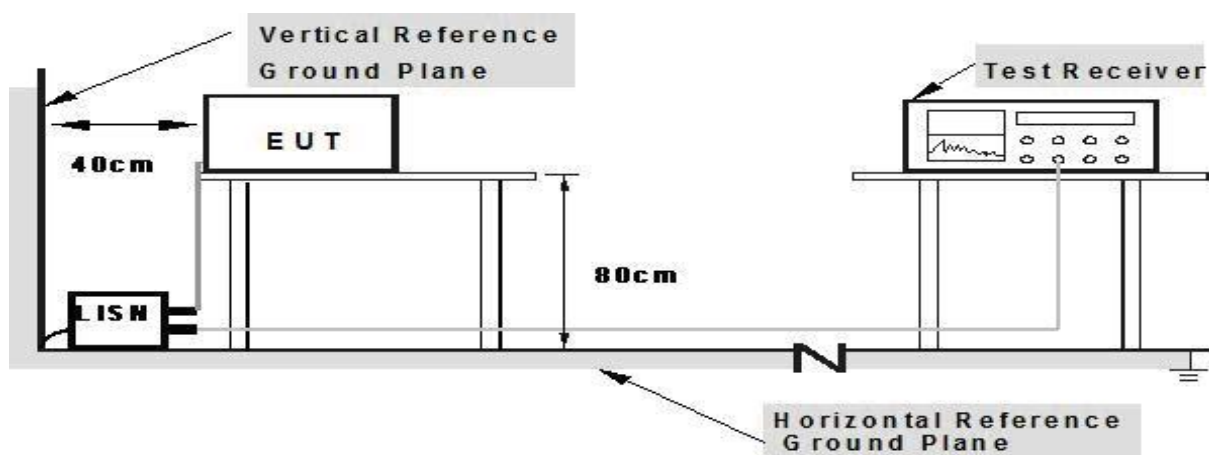
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.009 MHz
Stop Frequency	30 MHz
IF Bandwidth	200Hz and 9 kHz

#### 3.1.4 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### 3.1.5 TEST SETUP



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

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

#### 3.1.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



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**3.1.7 TEST RESULTS**

EUT :	Colorful humidifier	Model Name. :	SL808
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	N/A	Test Date :	N/A
Test Mode :	N/A	Phase :	N/A
Test Voltage :	N/A		

## 3.2 RADIATED EMISSION MEASUREMENT

## 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT (Below 1000MHz)

FREQUENCY (MHz)	<input checked="" type="checkbox"/> 2m	<input type="checkbox"/> 3m	<input type="checkbox"/> 4m
	dB(μA)	dB(μA)	dB(μA)
9 KHz~ 70 KHz	88	81	75
70 KHz ~ 150 KHz	88 to 58	81 to 51	75 to 45
150 KHz ~ 3 MHz	58 to 22	51 to 15	45 to 9
3 MHz ~ 30 MHz	22	15 to 16	9 to 12

FREQUENCY (MHz)	At 10m	At 3m
	dBuV/m	dBuV/m
30 – 230	30	40
230 – 300	37	47

Notes:

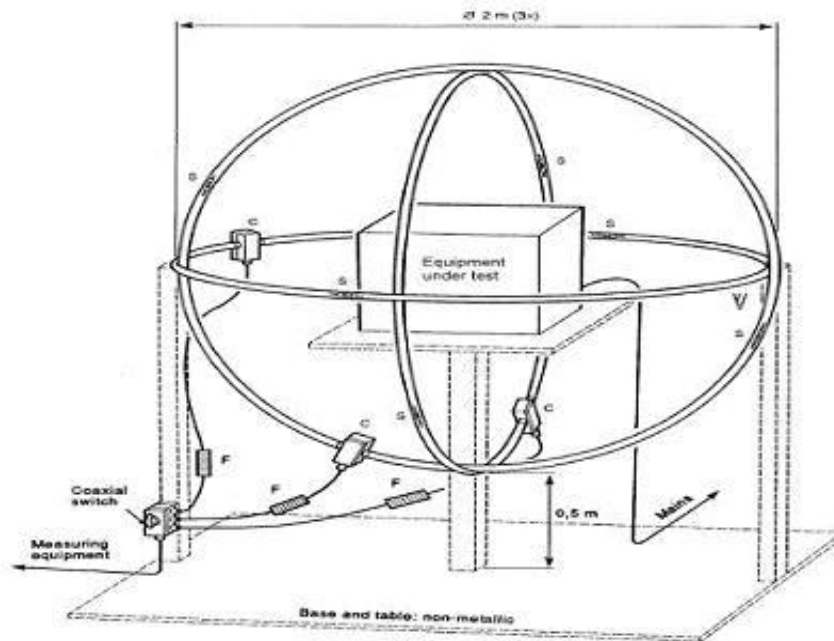
- (1) The limit for radiated test was performed according to as following:  
CISPR 15.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

## 3.2.2 TEST PROCEDURE

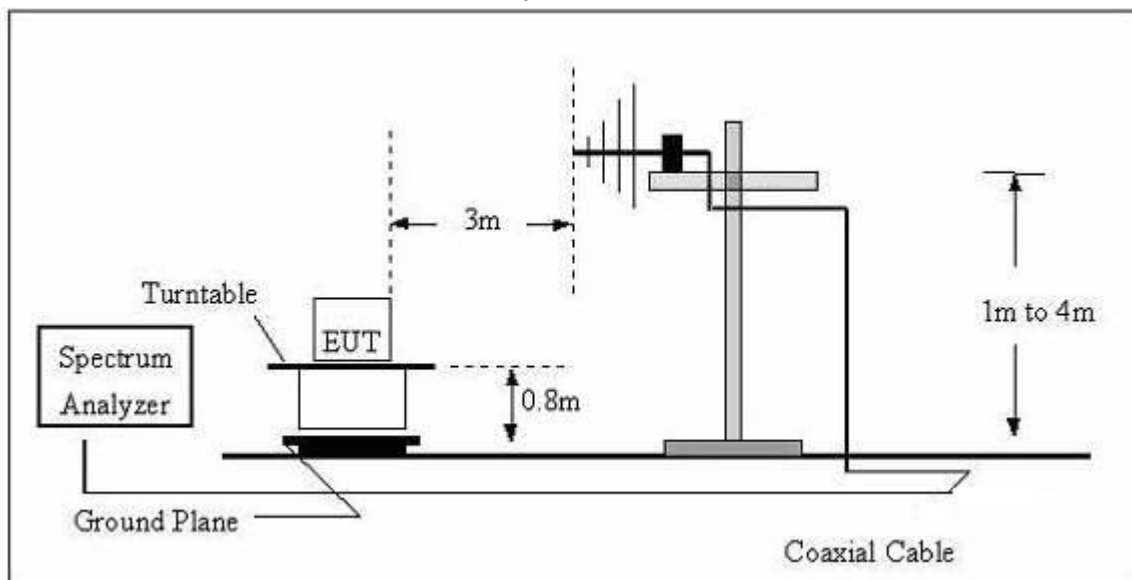
- a. The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured, above 1G Average detector mode will be instead.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP(AV) Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 3.2.3 TEST SETUP

#### (A) Radiated Emission Test Set-Up Frequency Below 30 MHz



#### (B) Radiated Emission Test Set-Up Frequency Above 30 MHz



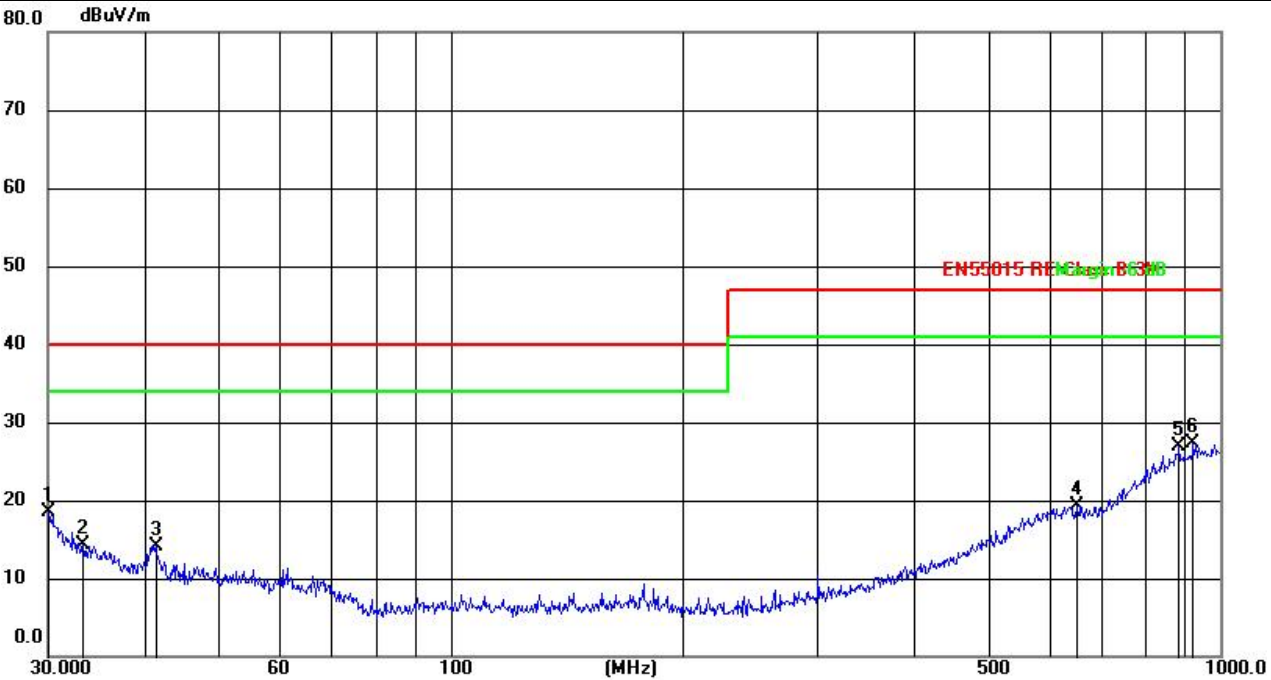
### 3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.5 TEST RESULTS(30MHz-300MHz)

EUT :	Colorful humidifier	Model Name. :	SL808
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2023-09-12
Test Mode :	Running	Polarization :	Horizontal
Test Voltage :	DC 5V		

Remark:  
Factor = Antenna Factor + Cable Loss.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.1053	37.00	-18.42	18.58	40.00	-21.42	QP				
2	33.3278	32.18	-17.88	14.30	40.00	-25.70	QP				
3	41.4215	31.13	-16.93	14.20	40.00	-25.80	QP				
4	651.9417	29.00	-9.70	19.30	47.00	-27.70	QP				
5	884.5028	30.09	-3.17	26.92	47.00	-20.08	QP				
6	922.5157	29.88	-2.63	27.25	47.00	-19.75	QP				

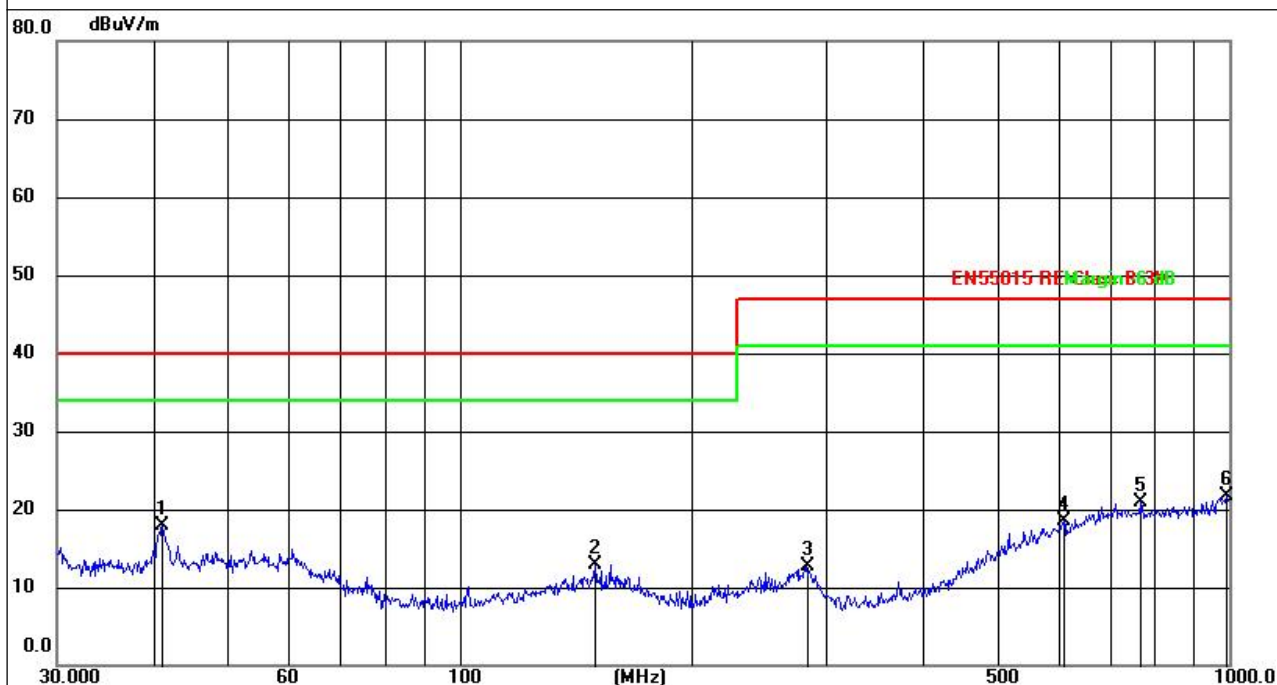
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EUT :	Colorful humidifier	Model Name. :	SL808
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2023-09-12
Test Mode :	Running	Polarization :	Vertical
Test Voltage :	DC 5V		

Remark:

Factor = Antenna Factor + Cable Loss.

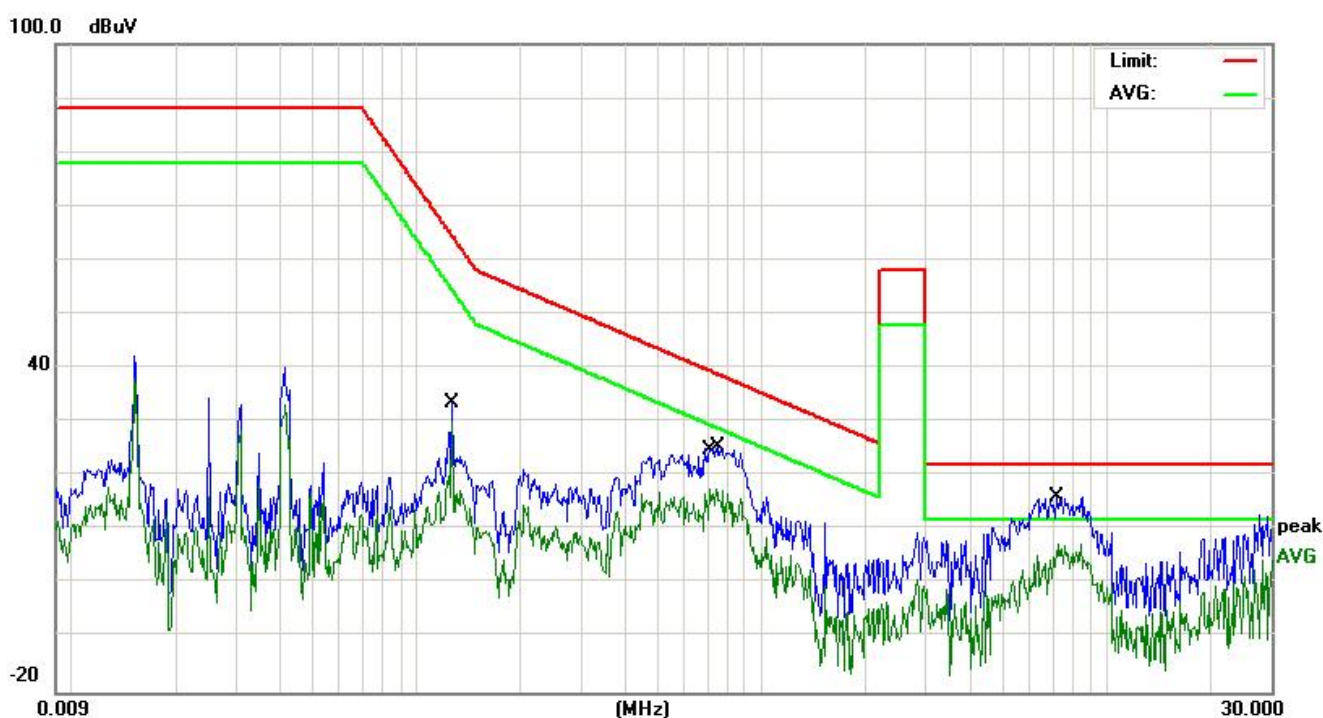


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	41.1320	32.04	-14.12	17.92	40.00	-22.08	QP				
2	150.0108	29.97	-17.06	12.91	40.00	-27.09	QP				
3	281.9946	29.11	-16.42	12.69	47.00	-34.31	QP				
4	609.9217	29.05	-10.61	18.44	47.00	-28.56	QP				
5	766.0571	29.72	-8.87	20.85	47.00	-26.15	QP				
6	993.0114	28.71	-7.02	21.69	47.00	-25.31	QP				

## 3.2.6 TEST RESULTS(0.009~30MHz)

EUT :	Colorful humidifier	Model Name. :	SL808
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2023-09-12
Test Mode :	Running	Polarization :	X
Test Voltage :	DC 5V		

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			
			dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1269	18.26	15.35	33.61	64.56	-30.95	QP
2		0.1269	14.73	15.35	30.08	54.56	-24.48	AVG
3		0.7096	7.28	10.40	17.68	29.48	-11.80	AVG
4		0.7378	14.88	10.41	25.29	39.01	-13.72	QP
5		7.1619	5.47	10.68	16.15	22.00	-5.85	QP
6	*	7.2660	-3.14	10.68	7.54	12.00	-4.46	AVG

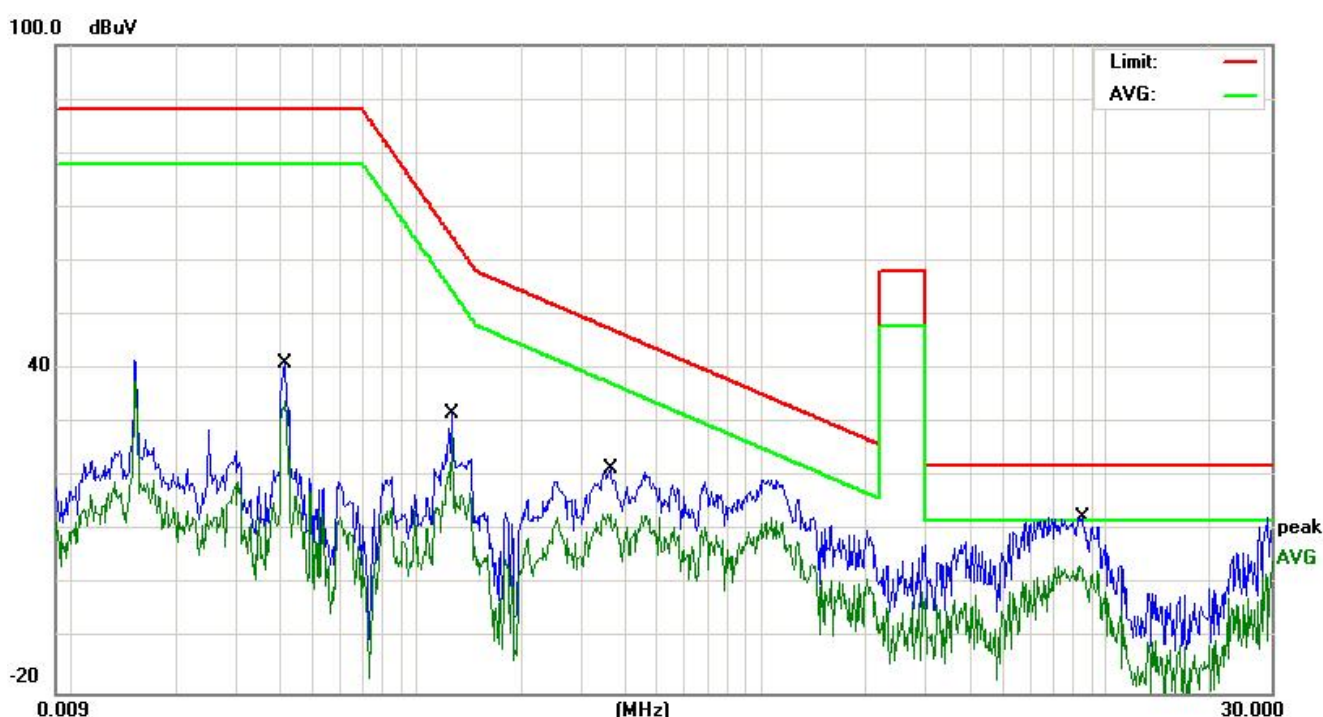


## WEICEJIANCE TESTING

Report No. WEICE230921301EMC  
- Page 22 of 52 -

EUT :	Colorful humidifier	Model Name. :	SL808
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2023-09-12
Test Mode :	Running	Polarization :	Y
Test Voltage :	DC 5V		

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			Detector
			dBuV	dB	dBuV	dBuV	dB	
1		0.0417	18.33	15.95	34.28	78.00	-43.72	AVG
2		0.1269	16.27	15.35	31.62	64.56	-32.94	QP
3		0.1269	12.73	15.35	28.08	54.56	-26.48	AVG
4		0.3659	11.06	10.42	21.48	47.37	-25.89	QP
5	*	8.3780	-7.13	10.68	3.55	12.00	-8.45	AVG
6		8.5259	1.99	10.68	12.67	22.00	-9.33	QP



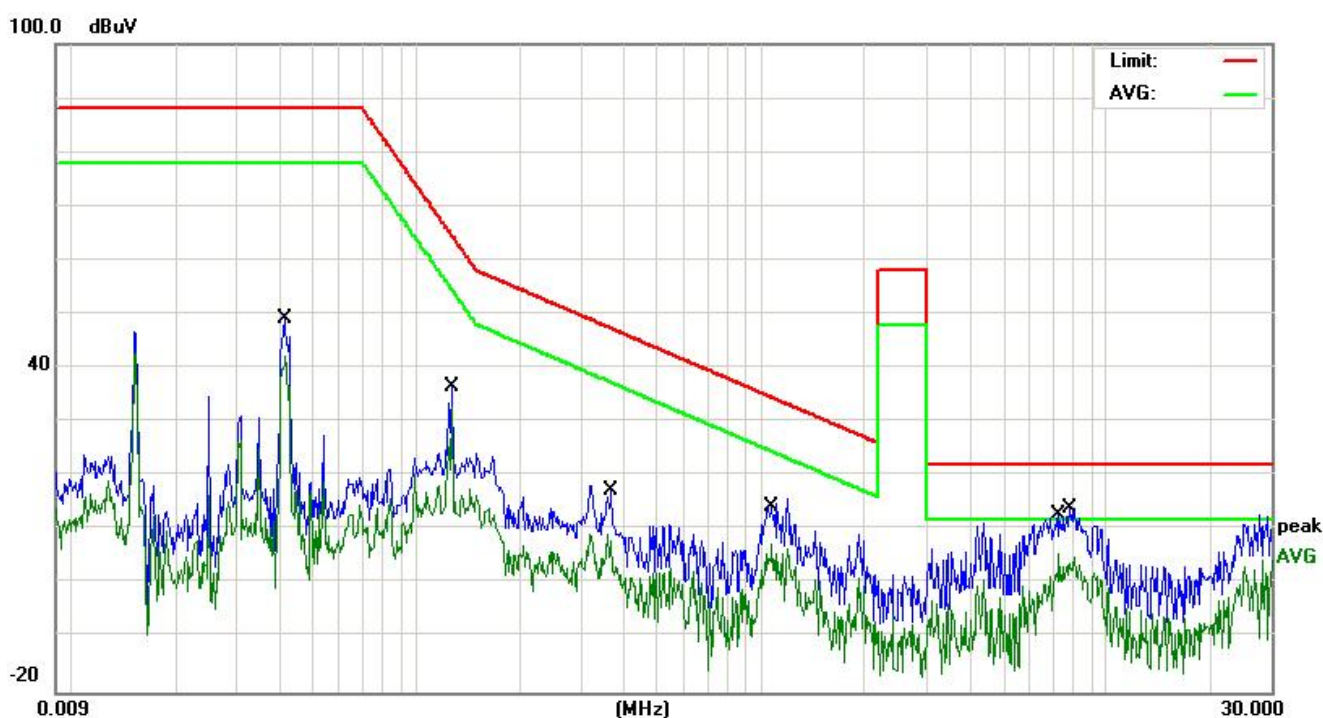


## WEICEJIANCE TESTING

Report No. WEICE230921301EMC  
- Page 23 of 52 -

EUT :	Colorful humidifier	Model Name. :	SL808
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2023-09-12
Test Mode :	Running	Polarization :	Z
Test Voltage :	DC 5V		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.0413	33.21	15.98	49.19	88.00	-38.81	QP
2		0.1269	17.73	15.35	33.08	54.56	-21.48	AVG
3		0.3664	6.81	10.42	17.23	47.35	-30.12	QP
4		1.0740	-3.00	10.45	7.45	24.54	-17.09	AVG
5	*	7.2660	-5.14	10.68	5.54	12.00	-6.46	AVG
6		7.8380	3.29	10.69	13.98	22.00	-8.02	QP





## 3.3 HARMONICS CURRENT

## 3.3.1 LIMITS OF HARMONICS CURRENT

## Harmonic Current Test Limit (Class C)

Harmonic order (n)	Maximum permissible harmonic current Expressed as a percentage of the input Current at the fundamental frequency %
2	2
3	$30\lambda$
5	10
7	7
9	5
$15 \leq n \leq 39$ (odd harmonics only)	3
<b>Remark:</b> $\lambda$ is the circuit power factor	

## 3.3.1.1 TEST PROCEDURE

a. The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under normal operating conditions.

b. The classification of EUT is according to section 5 of EN 61000-3-2. The EUT is classified as follows:

Class A: Balanced three-phase equipment, Household appliances excluding equipment as Class D, Tools excluding portable tools, Dimmers for incandescent lamps, audio equipment, equipment not specified in one of the three other classes.

Class B: Portable tools. Portable tools.; Arc welding equipment which is not professional equipment.

Class C: Lighting equipment.

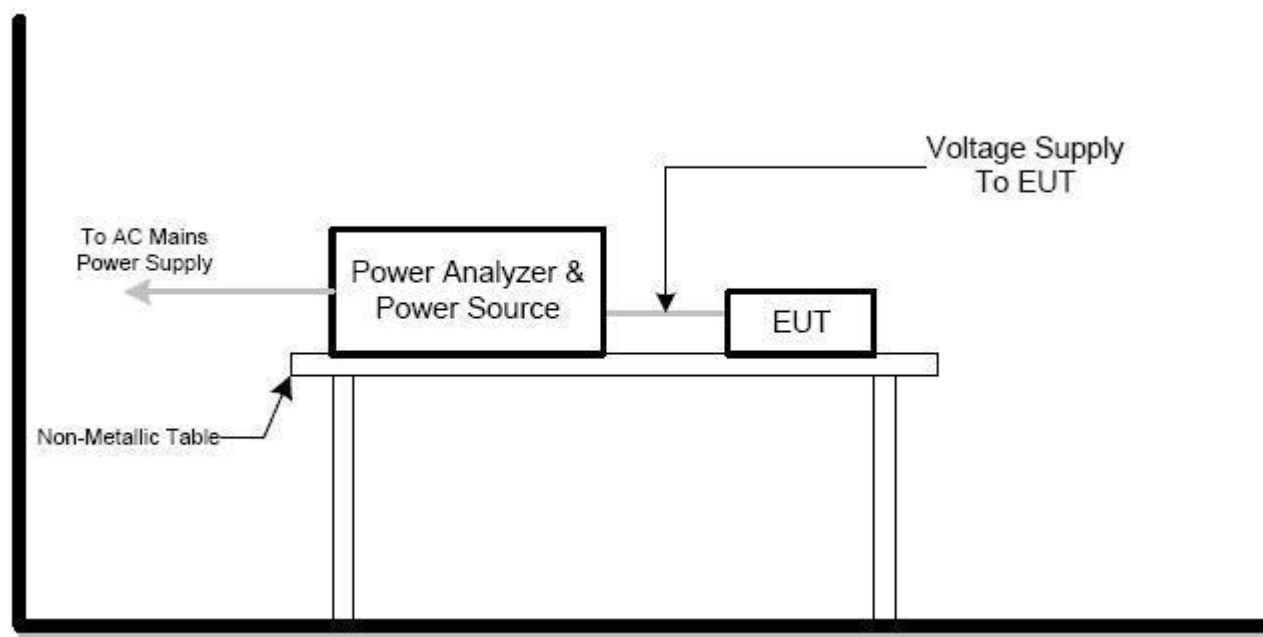
Class D: Equipment having a specified power less than or equal to 600W of the following types: Personal computers and personal computer monitors and television receivers.

c. The correspondent test program of test instrument to measure the current harmonics emanated from EUT is chosen. The measure time shall be not less than the time necessary for the EUT to be exercised.

### 3.3.1.2 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

### 3.3.1.3 TEST SETUP



### 3.3.2 TEST RESULTS

EUT :	Colorful humidifier	Model Name. :	SL808
Temperature :	25 °C	Relative Humidity :	45%
Pressure :	N/A	Test Date :	N/A
Test Mode :	N/A		
Test Voltage :	N/A		

### 3.4 VOLTAGE FLUCTUATION AND FLICKERS

#### 3.4.1 LIMITS OF VOLTAGE FLUCTUATION AND FLICKERS

Tests	Limits		Descriptions
	IEC555-3	IEC/EN 61000-3-3	
Pst	$\leq 1.0$ , Tp= 10 min.	$\leq 1.0$ , Tp= 10 min.	Short Term Flicker Indicator
Plt	N/A	$\leq 0.65$ , Tp=2 hr.	Long Term Flicker Indicator
dc	$\leq 3\%$	$\leq 3.3\%$	Relative Steady-State V-Chang
dmax	$\leq 4\%$	$\leq 4\%$	Maximum Relative V-change
d (t)	N/A	$\leq 3.3\%$ for > 500 ms	Relative V-change characteristic

##### 3.4.1.1 TEST PROCEDURE

a. Harmonic Current Test:

Test was performed according to the procedures specified in Clause 5.0 of IEC555-2 and/or Sub-clause 6.2 of IEC/EN 61000-3-2 depend on which standard adopted for compliance measurement.

b. Fluctuation and Flickers Test:

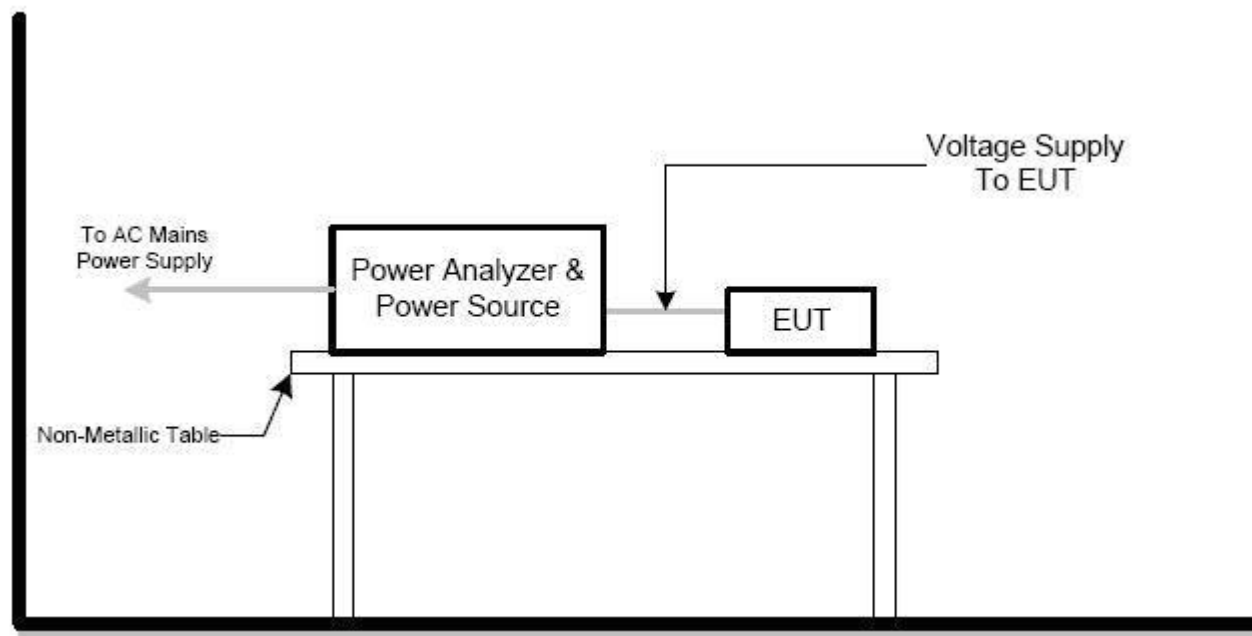
Tests was performed according to the Test Conditions/Assessment of Voltage Fluctuations specified in Clause 5.0/6.0 of IEC555-3 and/or Clause 6.0/4.0 of IEC/EN 61000-3-3 depend on which standard adopted for compliance measurement.

c. All types of harmonic current and/or voltage fluctuation in this report are assessed by direct measurement using flicker-meter.

##### 3.4.1.2 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

### 3.4.1.3 TEST SETUP



### 3.4.2 TEST RESULTS

EUT :	Colorful humidifier	Model Name. :	SL808
Temperature :	25 °C	Relative Humidity :	45%
Pressure :	N/A	Test Date :	N/A
Test Mode :	N/A		
Test Voltage :	N/A		

**4. EMC IMMUNITY TEST****4.1 STANDARD COMPLIANCE/SERVIRITY LEVEL/CRITERIA**

Tests Standard No.	TEST SPECIFICATION Level	Test Mode Test Ports	Perform. Criteria
1. ESD IEC/EN 61000-4-2	8KV air discharge 4KV contact discharge	Direct Mode	B
	4KV HCP discharge 4KV VCP discharge	Indirect Mode	B
2. RS IEC/EN 61000-4-3	80 MHz to 1000 MHz 1000Hz, 80%, AM modulated	Enclosure	A
3. EFT/Burst IEC/EN 61000-4-4	5/50ns Tr/Th 5KHz Repetition Freq.	Power Supply Port	B
	5/50ns Tr/Th 5KHz Repetition Freq.	CTL/Signal Data Line Port	B
4. Surges IEC/EN 61000-4-5	1.2/50(8/20) Tr/Th us	L-N	B
5 Injected Current IEC/EN 61000-4-6	0.15 MHz to 80 MHz, 1000Hz 80 % , AM Modulated 150Ω source impedance	CTL/Signal Port	A
	0.15 MHz to 80 MHz, 1000Hz 80 % , AM Modulated 150Ω source impedance	AC Power Port	A
	0.15 MHz to 80 MHz, 1000Hz 80 % , AM Modulated 150Ω source impedance	DC Power Port	A
6. Power Frequency Magnetic Field IEC/EN 61000-4-8	50 Hz,	Enclosure	A
7. Volt. Interruptions Volt. Dips IEC/EN 61000-4-11	Voltage dip 100% Voltage dip 30%	DC Power Port	B C

## 4.2 GENERAL PERFORMANCE CRITERIA

According to **EN 55014-1/-2** standard, the general performance criteria as following:

<b>Criterion A</b>	The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.
<b>Criterion B</b>	After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test.
<b>Criterion C</b>	Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

## 4.3 GENERAL PERFORMANCE CRITERIA TEST SETUP

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

#### 4.4 ESD TESTING

##### 4.4.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-2
Discharge Impedance:	330 ohm / 150 pF
Required Performance	B
Discharge Voltage:	Air Discharge : 2kV/4kV/8kV (Direct) Contact Discharge : 2kV/4kV (Direct/Indirect)
Polarity:	Positive & Negative
Number of Discharge:	Air Discharge: min. 20 times at each test point Contact Discharge: min. 200 times in total
Discharge Mode:	Single Discharge
Discharge Period:	1 second minimum

##### 4.4.2 TEST PROCEDURE

The test generator necessary to perform direct and indirect application of discharges to the EUT in the following manner:

- a. Contact discharge was applied to conductive surfaces and coupling planes of the EUT. During the test, it was performed with single discharges. For the single discharge time between successive single discharges was at least 1 second. The EUT shall be exposed to at least 200 discharges, 100 each at negative and positive polarity, at a minimum of four test points. chargee of the test points shall be subjected to at least 50 indirect discharges to the center of the front edge of the horizontal coupling plane. The remaining three test points shall each receive at least 50 direct contact discharges.  
If no direct contact test points are available, then at least 200 indirect discharges shall be applied in the indirect mode. Test shall be performed at a maximum repetition rate of one discharge per second.

Vertical Coupling Plane (VCP):

The coupling plane, of dimensions 0.5m x 0.5m, is placed parallel to, and positioned at a distance 0.1m from, the EUT, with the Discharge Electrode touching the coupling plane.

The four faces of the EUT will be performed with electrostatic discharge.

Horizontal Coupling Plane (HCP):

The coupling plane is placed under to the EUT. The generator shall be positioned vertically at a distance of 0.1m from the EUT, with the Discharge Electrode touching the coupling plane.

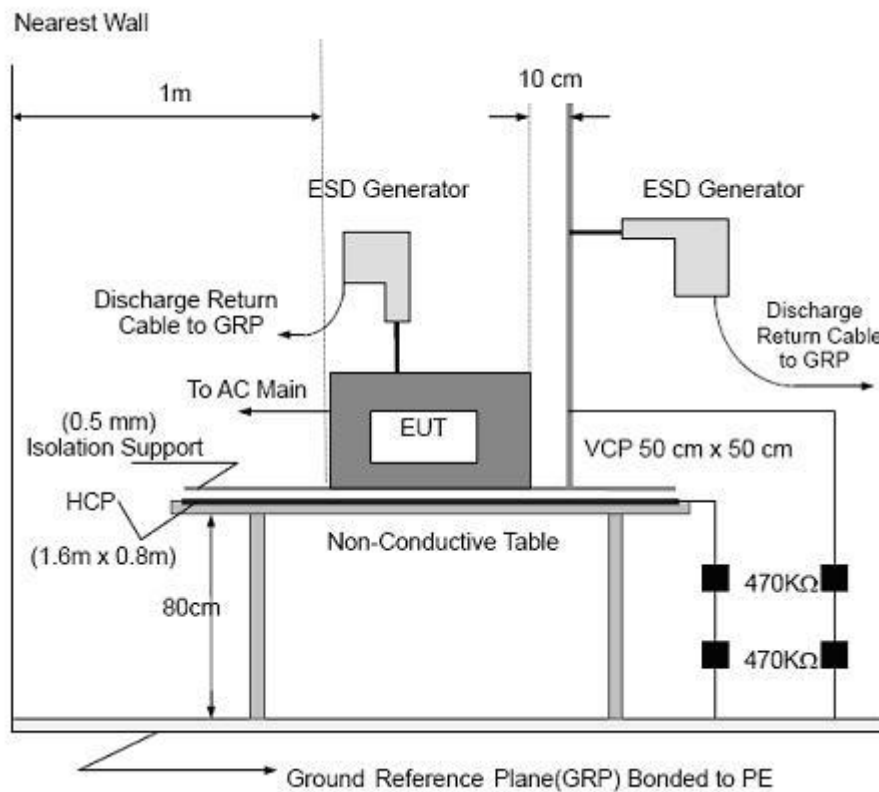
The four faces of the EUT will be performed with electrostatic discharge.

- b. Air discharges at insulation surfaces of the EUT.

It was at least ten single discharges with positive and negative at the same selected point.



#### 4.4.3 TEST SETUP



Note:

##### TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table 0.8 meters high standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system. A Horizontal Coupling Plane (1.6m x 0.8m) was placed on the table and attached to the GRP by means of a cable with 940k total impedance. The equipment under test, was installed in a representative system as described in section 7 of IEC /EN 61000-4-2, and its cables were placed on the HCP and isolated by an insulating support of 0.5mm thickness. A distance of 1-meter minimum was provided between the EUT and the walls of the laboratory and any other metallic structure.

##### FLOOR-STANDING EQUIPMENT

The equipment under test was installed in a representative system as described in section 7 of IEC/EN 61000-4-2, and its cables were isolated from the Ground Reference Plane by an insulating support of 0.1-meter thickness. The GRP consisted of a sheet of aluminum that is at least 0.25mm thick, and 2.5meters square connected to the protective grounding system and extended at least 0.5 meters from the EUT on all sides.

## 4.4.4 TEST RESULTS

EUT :	Colorful humidifier	Model Name. :	SL808
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2023-09-12
Test Mode :	Running		
Test Voltage :	DC 5V		

Mode	Air Discharge								Contact Discharge								Criterion	Result
Test level (kV)	2		4		8		15		2		4		6		8			
Test Location	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-		
Shell	A	A	A	A	A	A											B	PASS

## Note:

- 1) +/- denotes the Positive/Negative polarity of the output voltage.
- 2) Test condition:  
Direct / Indirect (HCP/VCP) discharges: Minimum 50 times (Positive/Negative) at each point. Air discharges: Minimum 10 times (Positive/Negative) at each point.
- 3) Test location(s) in which discharge (Air and contact discharge) to be applied illustrated by photos shown in next page(s)
- 4) The Indirect (HCP/VCP) discharges description of test point as following:  
1.left side 2.right side 3.front side 4.rear side
- 5) N/A - denotes test is not applicable in this test report

#### 4.5 RS TESTING

##### 4.5.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-3
Required Performance	A
Frequency Range:	80 MHz - 1000 MHz
Field Strength:	3 V/m
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of fundamental
Polarity of Antenna:	Horizontal and Vertical
Test Distance:	3 m
Antenna Height:	1.5 m
Dwell Time:	at least 3 seconds

##### 4.5.2 TEST PROCEDURE

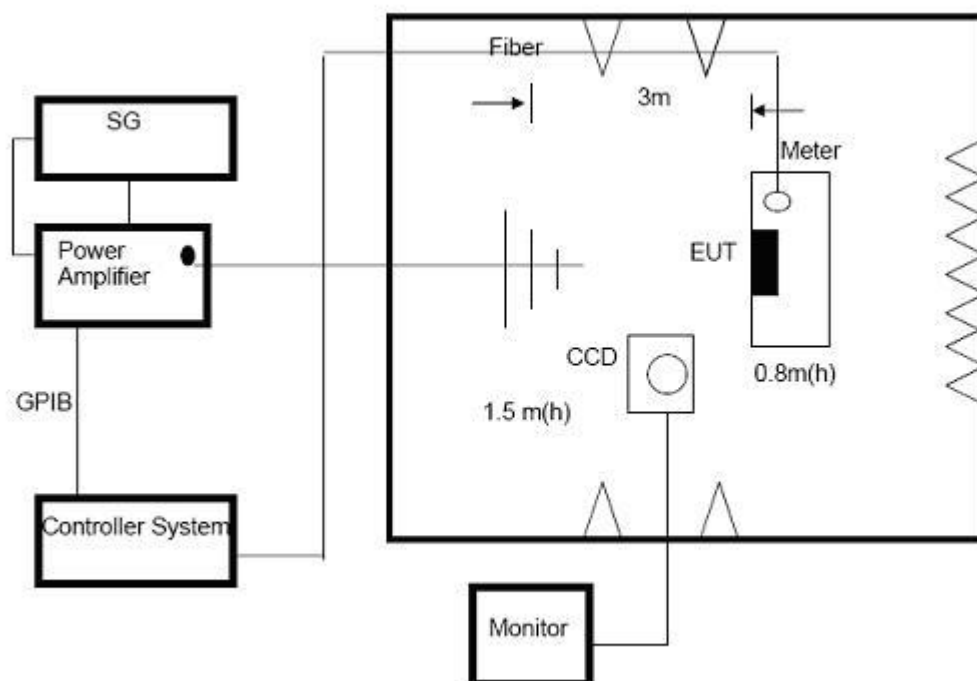
The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber.

The testing distance from antenna to the EUT was 3 meters.

The other condition as following manner:

- The frequency range is swept from 80 MHz to 1000 MHz, & 1400MHz - 2700MHz with the signal 80%amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5x 10<sup>-3</sup> decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
- Sweep Frequency 900 MHz, with the Duty Cycle:1/8 and Modulation: Pulse 217 Hz(if applicable)
- The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
- The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

#### 4.5.3 TEST SETUP



Note:

##### TABLE-TOP EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-3 was placed on a non-conductive table 0.8 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

##### FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-3 was placed on a non-conductive wood support 0.1 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

## 4.5.4 TEST RESULTS

EUT :	Colorful humidifier	Model Name. :	SL808
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2023-09-12
Test Mode :	Running		
Test Voltage :	DC 5V		

Frequency Range (MHz)	RF Field Position	R.F. Field Strength	Azimuth	Perform. Criteria	Results	Judgment
80MHz - 1000MHz	H / V	3 V/m (rms) AM Modulated 1000Hz, 80%	Front	<b>A</b>	<b>A</b>	<b>PASS</b>
			Rear			
			Left			
			Right			

## Note:

- 1) N/A - denotes test is not applicable in this test report.
- 2) Criteria A: There was no change operated with initial operating during the test.
- 3) Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 4) Criteria C: The system shut down during the test.

#### 4.6 EFT/BURST TESTING

##### 4.6.1 TEST SPECIFICATION

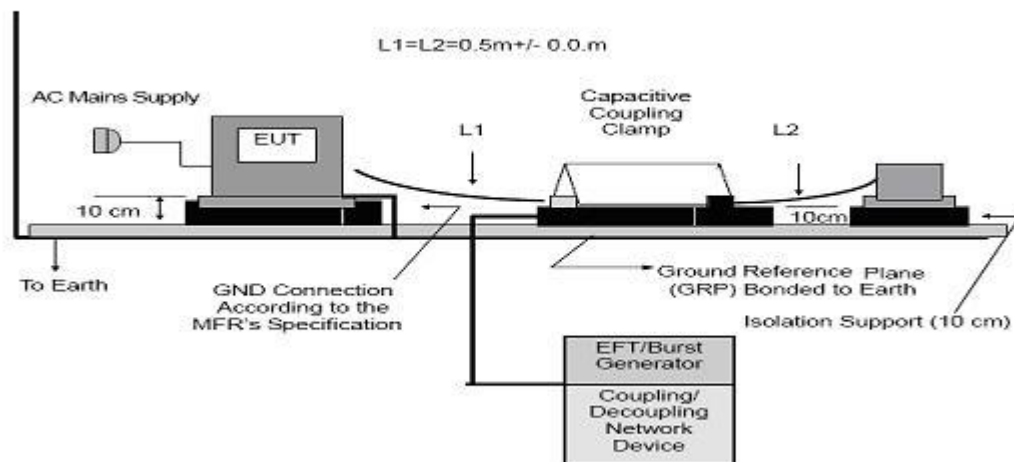
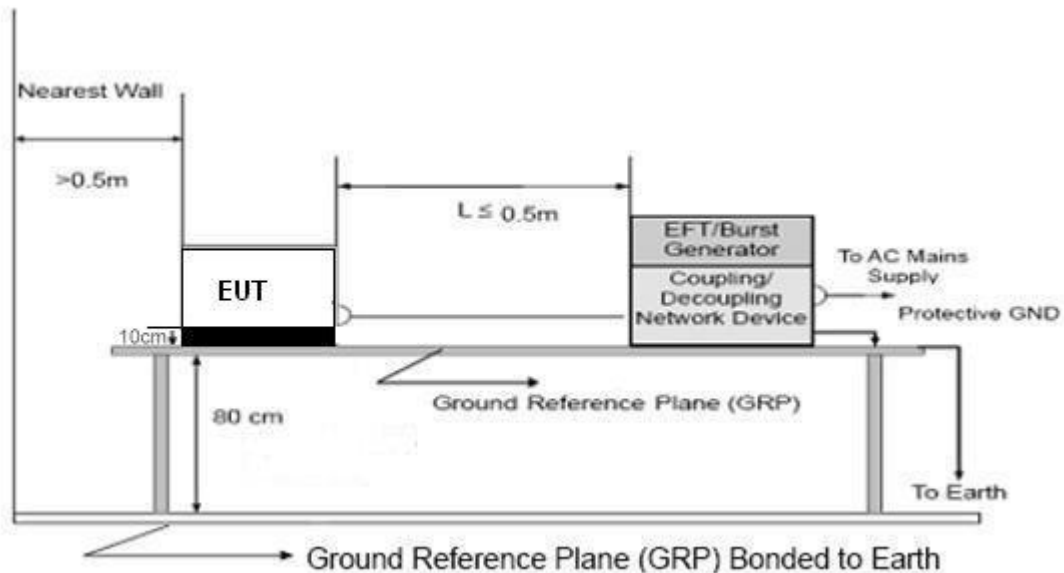
Basic Standard:	IEC/EN 61000-4-4
Required Performance	B
Test Voltage:	Power Line : 1 kV Signal/Control Line : 0.5 KV
Polarity:	Positive & Negative
Impulse Frequency:	5 kHz
Impulse Wave shape :	5/50 ns
Burst Duration:	15 ms
Burst Period:	300 ms
Test Duration:	Not less than 1 min.

##### 4.6.2 TEST PROCEDURE

The EUT and its simulators were placed on a ground reference plane and were insulated from it by a wood support 0.1m + 0.01m thick. The ground reference plane was 1m\*1m metallic sheet with 0.65mm minimum thickness. The other condition as following manner:

- a. The length of power cord between the coupling device and the EUT should not exceed 1 meter.
- b. Both positive and negative polarity discharges were applied.
- c. The duration time of each test sequential was 1 minute

#### 4.6.3 TEST SETUP



Note:

#### TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table (0.8m high) standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system. A minimum distance of 0.5m was provided between the EUT and the walls of the laboratory or any other metallic structure.

#### FLOOR-STANDING EQUIPMENT

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The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-4 and its cables, were isolated from the Ground Reference Plane by an insulating support that is 0.1-meter thick. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system.



#### 4.6.4 TEST RESULTS

EUT :	Colorful humidifier	Model Name. :	SL808
Temperature :	25 °C	Relative Humidity :	45%
Pressure :	N/A	Test Date :	N/A
Test Mode :	N/A		
Test Voltage :	N/A		

#### 4.7 SURGE TESTING

##### 4.7.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-5
Required Performance	B
Wave-Shape:	Combination Wave 1.2/50 us Open Circuit Voltage 8 /20 us Short Circuit Current
Test Voltage:	Power Line : 0.5 kV, 1 kV, 2 kV
Surge Input/Output:	L-N
Generator Source:	2 ohm between networks
Impedance:	12 ohm between network and ground
Polarity:	Positive/Negative
Phase Angle:	0 /90/180/270°
Pulse Repetition Rate:	1 time / min. (maximum)
Number of Tests:	5 positive and 5 negative at selected points

##### 4.7.2 TEST PROCEDURE

a. For EUT power supply:

The surge is to be applied to the EUT power supply terminals via the capacitive coupling network. Decoupling networks are required in order to avoid possible adverse effects on equipment not under test that may be powered by the same lines, and to provide sufficient decoupling impedance to the surge wave. The power cord between the EUT and the coupling/decoupling networks shall be 2meters in length (or shorter).

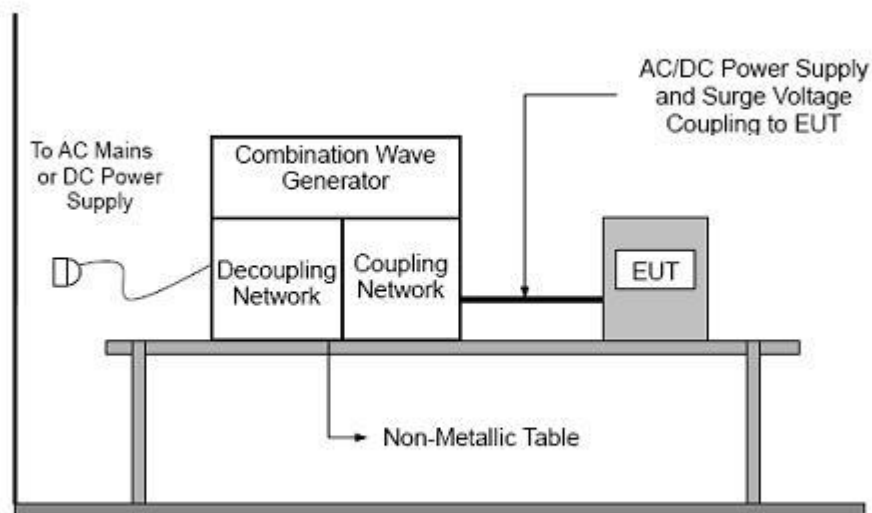
b. For test applied to unshielded unsymmetrically operated interconnection lines of EUT:

The surge is applied to the lines via the capacitive coupling. The coupling /decoupling networks shall not influence the specified functional conditions of the EUT. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).

c. For test applied to unshielded symmetrically operated interconnection /telecommunication lines of EUT:

d. The surge is applied to the lines via gas arrestors coupling. Test levels below the ignition point of the coupling arrestor cannot be specified. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).

#### 4.7.3 TEST SETUP



#### 4.7.4 TEST RESULTS

EUT :	Colorful humidifier	Model Name. :	SL808
Temperature :	25 °C	Relative Humidity :	45%
Pressure :	N/A	Test Date :	N/A
Test Mode :	N/A		
Test Voltage :	N/A		

## 4.8 INJECTION CURRENT TESTING

## 4.8.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-6
Required Performance	A
Frequency Range:	0.15 MHz - 80 MHz
Field Strength:	3 Vr.m.s.
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of fundamental
Dwell Time:	at least 3 seconds

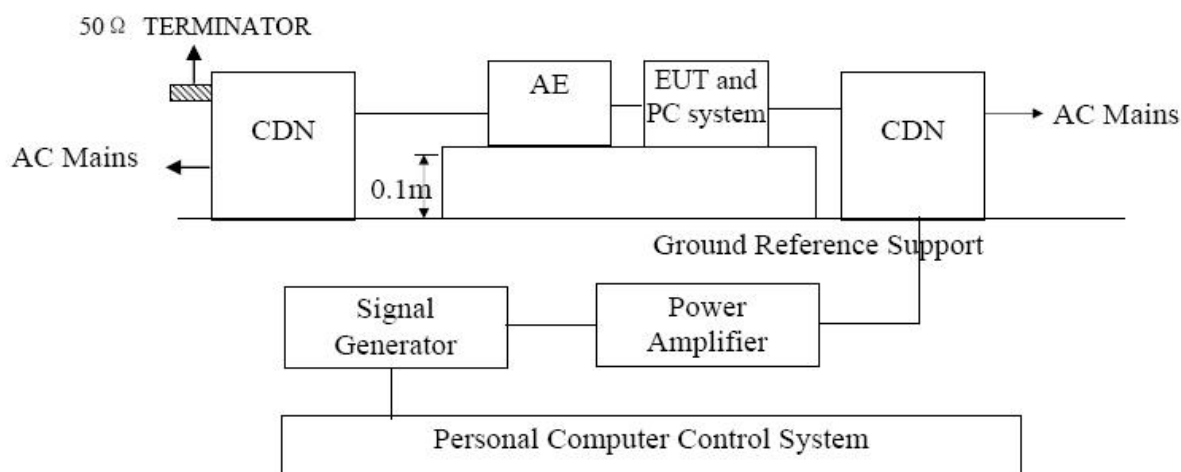
## 4.8.2 TEST PROCEDURE

The EUT are placed on an insulating support 0.1m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50mm (where possible). The disturbance signal described below is injected to EUT through CDN.

The other condition as following manner:

- The frequency range is swept from 150 KHz to 80 MHz, with the signal 80%amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed  $1.5 \times 10^{-3}$  decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
- The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.

## 4.8.3 TEST SETUP



## NOTE:

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#### FLOOR-STANDING EQUIPMENT

The equipment to be tested is placed on an insulating support of 0.1 meters height above a ground reference plane. All relevant cables shall be provided with the appropriate coupling and decoupling devices at a distance between 0.1 meters and 0.3 meters from the projected geometry of the EUT on the ground reference plane.

#### 4.8.4 TEST RESULTS

EUT :	Colorful humidifier	Model Name. :	SL808
Temperature :	25 °C	Relative Humidity :	45%
Pressure :	N/A	Test Date :	N/A
Test Mode :	N/A		
Test Voltage :	N/A		

#### 4.9 POWER FREQUENCY MAGNETIC FIELD TESTING

##### 4.9.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-8
Required Performance	A
Frequency Range:	50Hz
Field Strength:	3 A/m
Observation Time:	1 minute
Inductance Coil:	Rectangular type, 1mx1m

##### 4.9.2 TEST PROCEDURE

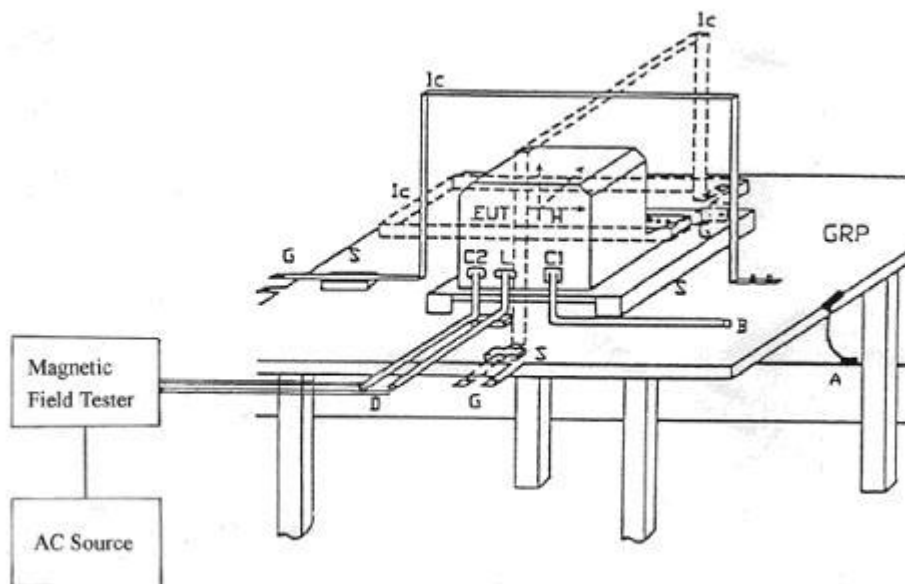
The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m\*1m min. and 0.65mm thick min.

The other condition as following manner:

- a. The equipment cabinets shall be connected to the safety earth directly on the GRP via the earth terminal of the EUT.
- b. The cables supplied or recommended by the equipment manufacturer shall be used. 1 meter of all cables used shall be exposed to the magnetic field.



## 4.9.3 TEST SETUP



Note:

## TABLE-TOP EQUIPMENT

The equipment shall be subjected to the test magnetic field by using the induction coil of standard dimension (1 m x 1 m). The induction coil shall then be rotated by 90 degrees in order to expose the EUT to the test field with different orientations.

## FLOOR-STANDING EQUIPMENT

The equipment shall be subjected to the test magnetic field by using induction coils of suitable dimensions. The test shall be repeated by moving and shifting the induction coils, in order to test the whole volume of the EUT for each orthogonal direction. The test shall be repeated with the coil shifted to different positions along the side of the EUT, in steps corresponding to 50 % of the shortest side of the coil. The induction coil shall then be rotated by 90 degrees in order to expose the EUT to the test field with different orientations.

## 4.9.4 TEST RESULTS

EUT :	Colorful humidifier	Model Name. :	SL808
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	N/A	Test Date :	N/A
Test Mode :	N/A		
Test Voltage :	N/A		

#### 4.10 VOLTAGE INTERRUPTION/DIPS TESTING

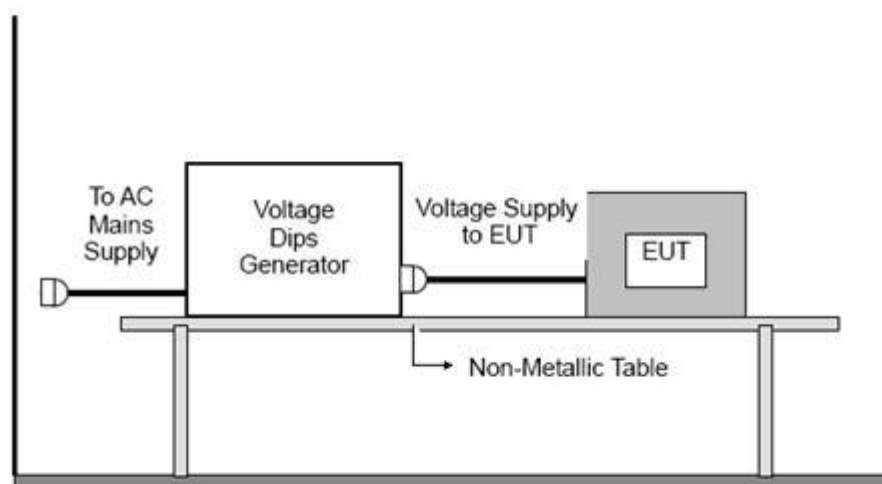
##### 4.10.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-11
Required Performance	B (For 100% Voltage Dips) C (For 30% Voltage Dips)
Test Duration Time:	Minimum three test events in sequence
Interval between Event:	Minimum ten seconds
Phase Angle:	0°/45°/90°/135°/180°/225°/270°/315°/360°
Test Cycle:	3 times

##### 4.10.2 TEST PROCEDURE

The EUT shall be tested for each selected combination of test levels and duration with a sequence of three dips/interruptions with intervals of 10 s minimum (between each test event). Each representative mode of operation shall be tested. Abrupt changes in supply voltage shall occur at zero crossings of the voltage waveform.

##### 4.10.3 TEST SETUP



#### 4.10.4 TEST RESULTS

EUT :	Colorful humidifier	Model Name. :	SL808
Temperature :	25 °C	Relative Humidity :	45%
Pressure :	N/A	Test Date :	N/A
Test Mode :	N/A		
Test Voltage :	N/A		

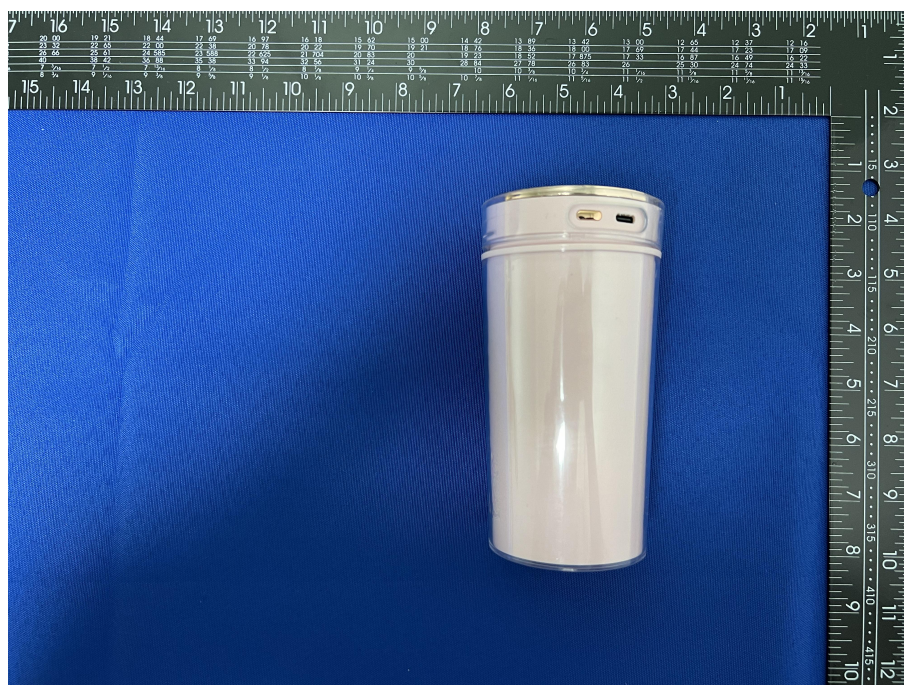
ATTACHMENT PHOTOGRAPHS OF EUT



**EUT Photo 1**



**EUT Photo 2**



\*\*\*\*\*THE END OF REPORT\*\*\*\*\*