



GUANGDONG DETECTION CENTER OF MICROBIOLOGY

REPORT FOR ANALYSIS

Report No. 2020FM04797R03E

Name of Sample YKX300-Q3 Plasma Air Purifier

Applicant Guilin Woodpecker Medical Instrument Co., Ltd.

Test Type Entrustment Test



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GUANGDONG DETECTION CENTER OF MICROBIOLOGY



REPORT FOR ANALYSIS

Report No.:2020FM04797R03E Verification Code: 28974351

Name of Sample	YKX300-Q3 Plasma Air Purifier	Test Type	Entrustment Test
Applicant	Guilin Woodpecker Medical Instrument Co., Ltd.	Address	Information Industrial Park, GuiLin National High-Tech Zone, GuiLin, GuangXi, 541004, P.R.China
Sample Source	Submitted for Testing by the Applicant	Sample Quantity	One sample submitted
Spec and Lot No of Sample	YKX300-Q3 Plasma Air Purifier	State and Characteristic	Machine
Sample Received Date	2020-03-10	Test Completion Date	2020-03-19
Test Standard and Method	WS/T 648-2019 Appendix B		
Item Tested	Air disinfection field test		
Test Conclusion	The test data of the sample(s) is attached to the page(s) of this report.		
Remarks	<p style="text-align: right;">Issue Date: 2020-04-20 (Official Seal)</p> 		

生物  
检验检测

Editor:

Qiunanchun

Verifier:

Sun Jiasun

Approver:

Xie Xiaobao





GUANGDONG DETECTION CENTER OF MICROBIOLOGY

ANALYSIS AND TEST RESULT

Report №.: 2020FM04797R03E

Action time	The test organism	Serial Number	Total bacteria (cfu/m <sup>3</sup> )	Reduced rate (%)
0 (CK)	Natural bacteria in air	1	1.5×10 <sup>3</sup>	/
		2	1.7×10 <sup>3</sup>	/
		3	1.5×10 <sup>3</sup>	/
2h	Natural bacteria in air	1	99	93.40
		2	1.1×10 <sup>2</sup>	93.53
		3	1.2×10 <sup>2</sup>	92.00
(Blank below)				
Remarks	Method description: The prototype was turned on and switched to the maximum L4 gear for 2 hours in a 13m <sup>2</sup> test chamber, and then used six mesh impact type air microorganism sampler JWL-6 to sampling with air volume of 28.3 liters per minute. The sampling time of air was 5 minutes.			

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Report №.: 2020FM04797R03E

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201819000883



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**GUANGDONG DETECTION CENTER OF MICROBIOLOGY**

**REPORT FOR ANALYSIS**

**Report No.** 2020FM04797R04E

**Name of Sample** YKX300-Q3 Plasma Air Purifier

**Applicant** Guilin Woodpecker Medical Instrument Co., Ltd.

**Test Type** Entrustment Test



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**GUANGDONG DETECTION CENTER OF MICROBIOLOGY**

**REPORT FOR ANALYSIS**



Report No.: 2020FM04797R04E Verification Code: 17950286

Name of Sample	YKX300-Q3 Plasma Air Purifier	Test Type	Entrustment Test
Applicant	Guilin Woodpecker Medical Instrument Co., Ltd.	Address	Information Industrial Park, GuiLin National High-Tech Zone, GuiLin, GuangXi, 541004, P.R.China
Sample Source	Submitted for Testing by the Applicant	Sample Quantity	One sample submitted
Spec and Lot No of Sample	YKX300-Q3 Plasma Air Purifier	State and Characteristic	Machine
Sample Received Date	2020-03-13	Test Completion Date	2020-03-19
Test Standard and Method	HJ 590-2010		
Item Tested	Ozone concentration (air in experimental chamber)		
Test Conclusion	The test data of the sample(s) is attached to the page(s) of this report.		
Remarks	<p style="text-align: right;">Issue Date: 2020-04-20 (Official Seal)</p> 		

Editor: *Qiuwanchun*

Verifier: *[Signature]*

Approver: *Xie Xiaobao*

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GUANGDONG DETECTION CENTER OF MICROBIOLOGY

ANALYSIS AND TEST RESULT

Report No.: 2020FM04797R04E

No.	Test Item	Test Result	Standard requirement	Unit
1	Ozone concentration (air in experimental chamber)	0.093	≤0.16	mg/m <sup>3</sup>
(Blank below)				
Remarks	The ozone concentration was measured after the prototype turned on and operated 24 hours in the 30m <sup>3</sup> experimental chamber.			

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GUANGDONG DETECTION CENTER OF MICROBIOLOGY

REPORT FOR ANALYSIS

Report No. 2020FM04797R02E

Name of Sample YKX300-Q3 Plasma Air Purifier

Applicant Guilin Woodpecker Medical Instrument Co., Ltd.

Test Type Entrustment Test



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GUANGDONG DETECTION CENTER OF MICROBIOLOGY

REPORT FOR ANALYSIS



Report No.:2020FM04797R02E Verification Code: 58943271

Name of Sample	YKX300-Q3 Plasma Air Purifier	Test Type	Entrustment Test
Applicant	Guilin Woodpecker Medical Instrument Co., Ltd.	Address	Information Industrial Park, GuiLin National High-Tech Zone, GuiLin, GuangXi, 541004, P.R.China
Sample Source	Submitted for Testing by the Applicant	Sample Quantity	One sample submitted
Spec and Lot No of Sample	YKX300-Q3 Plasma Air Purifier	State and Characteristic	Machine
Sample Received Date	2020-03-10	Test Completion Date	2020-03-19
Test Standard and Method	WS/T 648-2019 Appendix A		
Item Tested	Simulated field test of air disinfection		
Test Conclusion	The test data of the sample(s) is attached to the page(s) of this report.		
Remarks	<p>Issue Date: 2020-04-20 (Official Seal)</p> 		

生物  
检验检测

Editor: *Qiuwanchun*

Verifier: *Sun Jieshi*

Approver: *Xie Xiaobao*





GUANGDONG DETECTION CENTER OF MICROBIOLOGY

ANALYSIS AND TEST RESULT

Report No.: 2020FM04797R02E

Action time	The test organism	Serial Number	The number of Bacteria in the air (cfu/m <sup>3</sup> )	Killing rate (%)
0 (CK)	<i>(Staphylococcus albus)</i> 8032	1	3.7×10 <sup>4</sup>	
		2	3.8×10 <sup>4</sup>	
		3	3.9×10 <sup>4</sup>	
2h	<i>(Staphylococcus albus)</i> 8032	1	14	99.96
		2	21	99.94
		3	14	99.96

(Blank below)

Remarks	<p>1. Method description: The machine was turned on and switched to the maximum L4 gear for 2 hours and then sampling the air respectively with a Six level sieve pore striker air microorganism Sampler (JWL-6) at the flow rate 28.3/Lmin after it run for 1h and 2h. The sampling time was 1min for blank control group and 5min for tset group. The volume of tset chamber was 20m<sup>3</sup>.</p> <p>2. The result of kill rate has eliminated the natural decay of microorganisms in the air.</p>
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GUANGDONG DETECTION CENTER OF MICROBIOLOGY

REPORT FOR ANALYSIS

Report No. 2018FM01526R01E

Name of Sample Airdog X5 Air Purifier

Applicant Suzhou BeiAng Air Tech Ltd.

Test Type Entrustment Test



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**GUANGDONG DETECTION CENTER OF MICROBIOLOGY**

**REPORT FOR ANALYSIS**



Report No.:2018FM01526R01E Verification Code: 32716408

Name of Sample	Airdog X5 Air Purifier	Test Type	Entrustment Test
Applicant	Suzhou BeiAng Air Tech Ltd.	Address	No.188 xincheng Road.,SIP, Suzhou,Jiangsu, China,
Sample Source	Submitted for Testing by the Applicant	Sample Quantity	One Sample Submitted
Spec and Lot No of Sample	KJ300F-X5 Master-test, Cover type KJ300F-X3	State and Characteristic	Household appliances
Sample Received Date	2018-03-05	Test Completion Date	2018-03-26
Test Standard and Method	Refer to Technical Standard for Disinfection (2002 Ministry of Health P.R.China)-2.1.3		
Item Tested	Identification test of aerosolized virus elimination effect		
Test Conclusion	The test data of the sample(s) is attached to the page(s) of this report.		
Remarks	<p>1. Manufacturer: AnHui BeiAng Air Tech Ltd. (provided by the applicant)</p> <p>2. The sample KJ300F-X5 is add WIFI module to KJ300F-X5, no other difference. (provided by the applicant)</p>		

微生物  
检验

Issue Date: 2018-04-09

(Official Seal)



Editor:

*Chen Yingting*

Verifier:

*Sun Jius*

Approver:

*Xie Xiaobao*





ANALYSIS AND TEST RESULT

Report No.: 2018FM01526R01E

Action Time	Virus and host cell	Data point	Aerosolized virus concentration in the test chamber (IU/m <sup>3</sup> )	Removal rate (%)
1h	H3N2 Influenza virus Host cell: MDCK	Before test	1.4×10 <sup>6</sup>	/
		After test	6.1×10 <sup>2</sup>	99.876

Note: The natural decay of the microorganisms in the air has been eliminated.  
(blank below)

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Remarks	<p>1. The experiment was performed in a 10m<sup>3</sup> test chamber</p> <p>2. Working state: Press L4( the speed ) to test.</p>
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Report №.: 2018FM01526R01E

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## Test Report

Date : 2020-04-17  
No. : DM20040014

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**Applicant:** Guilin Woodpecker Medical Instrument Co., Ltd.  
Information Industrial Park, GuiLin National High-Tech Zone,  
GuiLin, GuangXi, 541004, P.R.China

**Description of Sample(s):** Submitted sample(s) said to be  
Product: Plasma Air Purifier  
Brand Name: WOODPECKER  
Model Number: YKX300-Q3

**Date Sample(s) Received:** 2020-04-07

**Date Tested:** 2020-04-07 to 2020-04-08

**Investigation Requested:** FCC Part 15 Subpart B

**Conclusion(s):** The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

**Remark(s):** ---

  
LONG Yunjian, Along  
Authorized Signatory

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## Test Report

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## Test Report

Date : 2020-04-17  
No. : DM20040014

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### 1.0 General Details

#### **1.1 Equipment Under Test [EUT] Description of Sample(s)**

Product:	Plasma Air Purifier
Manufacturer:	Guilin Woodpecker Medical Instrument Co., Ltd. Information Industrial Park, GuiLin National High-Tech Zone, GuiLin, GuangXi, 541004, P.R.China
Brand Name:	WOODPECKER
Model Number:	YKX300-Q3
Highest Internal Frequency:	20MHz
Measurement range in the radiated emission:	<input checked="" type="checkbox"/> 30MHz - 1000MHz <input type="checkbox"/> 1000MHz - 6000MHz
Rating:	100-240Va.c. 50/60Hz, 55W

#### **1.1.1 Description of EUT Operation**

The Equipment Under Test (EUT) is a Plasma Air Purifier of Guilin Woodpecker Medical Instrument Co., Ltd.  
During the test, the EUT was conducted under On mode(Max power, the worse case) to simulate the normal operating condition.

#### **1.2 Date of Order**

2020-04-07

#### **1.3 Submitted Sample(s):**

1 Sample

#### **1.4 Test Duration**

2020-04-07 to 2020-04-08

#### **1.5 Country of Origin**

China

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## Test Report

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### **2.0 Technical Details**

#### **2.1 Investigations Requested**

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 and ANSI C63.4-2014.

#### **2.2 Test Standards and Results Summary Tables**

EMISSION Results Summary						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Failed	N/A
Radiated Emissions	FCC 47CFR 15.109	ANSI C63.4-2014	Class B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conducted Emissions	FCC 47CFR 15.107	ANSI C63.4-2014	Class B	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Remark:  
N/A: Not Applicable

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## Test Report

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### 3.0 Test Results

#### **3.1 Emission**

##### **3.1.1 Radiated Emissions (30MHz to 1000MHz)**

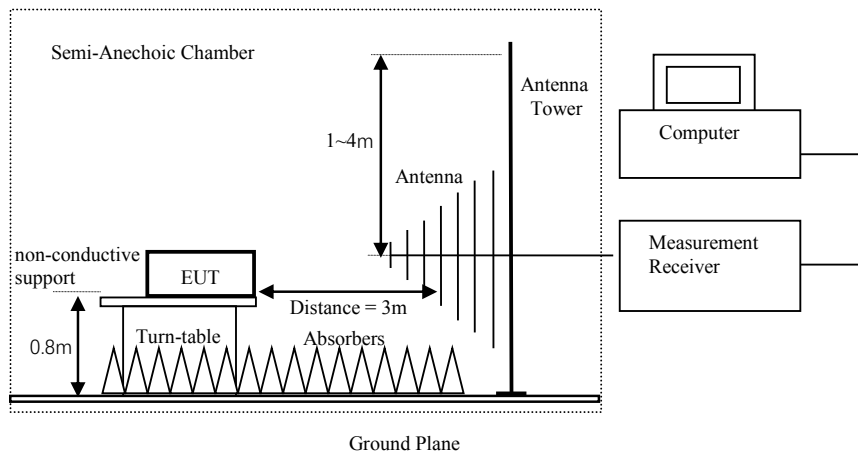
Test Requirement: FCC 47CFR 15.109 Class B  
Test Method: ANSI C63.4-2014  
Test Date: 2020-04-07  
Mode of Operation: On mode(Max power, the worse case)

#### **Test Method:**

The sample was placed 0.8m above the ground plane of semi-anechoic chamber\*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

\*: Semi-anechoic chamber located on the G/F of DGSTC with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 629686.

#### **Test Setup:**



- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used.

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## Test Report

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### Limits for Radiated Emissions [FCC 47 CFR 15.109 Class B]:

#### Radiated Limits below 1GHz

Frequency Range MHz	Quasi-Peak Limits	
	$\mu\text{V/m}$	$\text{dB}(\mu\text{V/m})$
30-88	100	40.0
88-216	150	43.5
216-960	200	46.0
Above960	500	54.0

NOTE: The tighter limit shall apply at the boundary between two frequency ranges.

#### Radiated Limits above 1 GHz

Frequency Range [MHz]	Average Limits [ $\text{dB}(\mu\text{V/m})$ ]	Peak Limits [ $\text{dB}(\mu\text{V/m})$ ]
> 1000	54.0	74.0

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

#### Remark:

Calculated measurement uncertainty (30MHz – 1GHz): 4.6dB  
(1GHz – 6GHz): 4.4dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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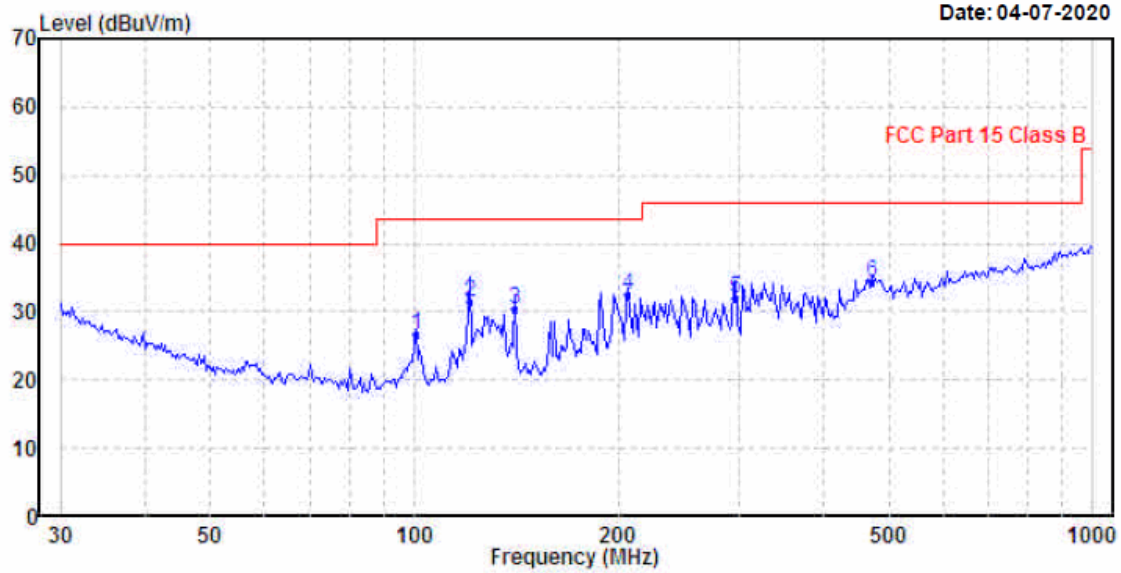
## Test Report

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**Results of On mode(Max power, the worse case): Pass**  
 Please refer to the following diagram for individual results.

Horizontal



Ambient Temperature: 25C  
 Relative Humidity : 50%

	Freq	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB		
1	100.229	26.56	43.50	-16.94	QP	Horizontal
2	120.277	31.47	43.50	-12.03	QP	Horizontal
3	140.342	30.39	43.50	-13.11	QP	Horizontal
4	206.398	32.50	43.50	-11.00	QP	Horizontal
5	297.224	32.06	46.00	-13.94	QP	Horizontal
6	472.176	34.24	46.00	-11.76	QP	Horizontal

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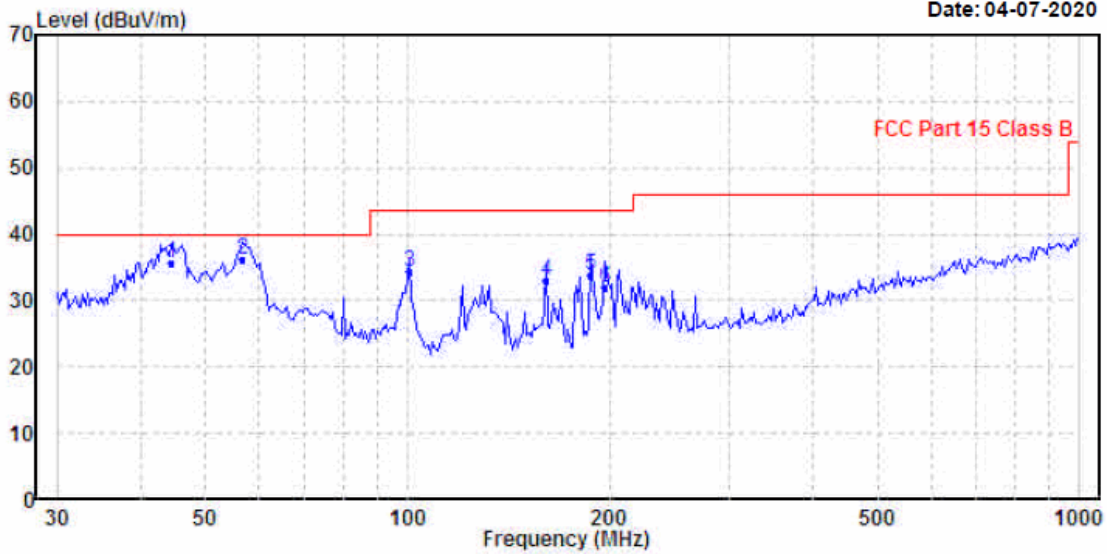
## Test Report

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**Results of On mode(Max power, the worse case): Pass**  
 Please refer to the following diagram for individual results.

Vertical



Ambient Temperature: 25C  
 Relative Humidity : 50%

	Freq	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB		
1	44.431	35.75	40.00	-4.25	QP	Vertical
2	56.792	36.28	40.00	-3.72	QP	Vertical
3	100.229	34.46	43.50	-9.04	QP	Vertical
4	160.346	33.09	43.50	-10.41	QP	Vertical
5	187.096	33.90	43.50	-9.60	QP	Vertical
6	196.510	31.99	43.50	-11.51	QP	Vertical

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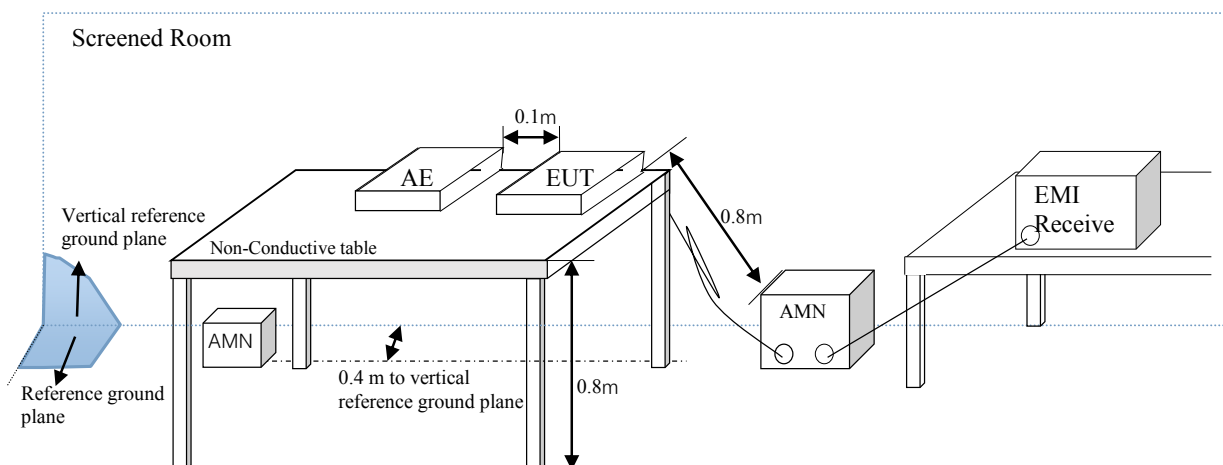
### 3.1.2 Conducted Emissions (0.15MHz to 30MHz)

Test Requirement: FCC 47CFR 15.107 Class B  
 Test Method: ANSI C63.4-2014  
 Test Date: 2020-04-08  
 Mode of Operation: On mode(Max power, the worse case)

#### Test Method:

The test was performed in accordance with ANSI C63.4-2014, with the following: initial measurements were performed in peak and average detection modes on the live line, any emissions recorded within 30dB of the relevant limit lines were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

#### Test Setup:



#### Limits for Conducted Emissions [FCC 47 CFR 15.107 Class B]:

Frequency Range MHz	Quasi-Peak Limits dB(μV)	Average dB(μV)
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

\* Decreases with the logarithm of the frequency.

NOTE: The tighter limit shall apply at the boundary between two frequency ranges.

#### Remark:

Calculated measurement uncertainty (0.15MHz – 30MHz): 3.2dB

Emissions have been investigated and the worst-case test results are recorded in this report.

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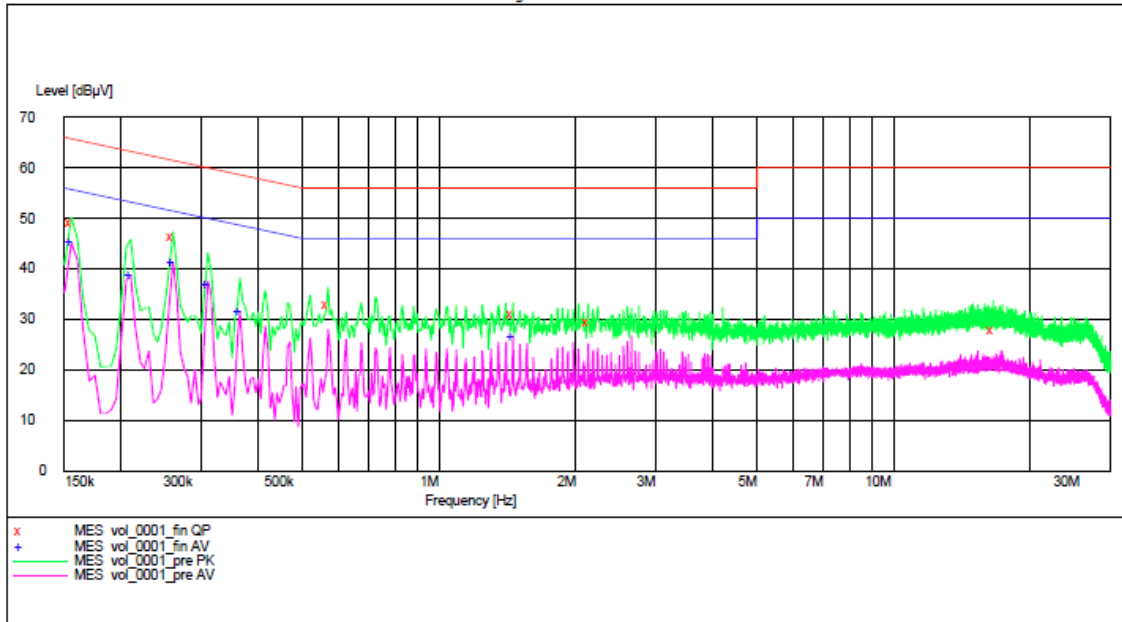
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**Results of On mode(MAX power, the worse case) (L): Pass**

Please refer to the following diagram for individual results.



**MEASUREMENT RESULT: "vol\_0001\_fin QP"**

4/8/2020 2:43PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.155000	49.30	9.7	66	16.4	L1	GND
0.260000	46.60	9.7	61	14.8	L1	GND
0.570000	33.00	9.7	56	23.0	L1	GND
1.455000	31.20	9.8	56	24.8	L1	GND
2.130000	29.60	9.8	56	26.4	L1	GND
16.525000	27.90	10.3	60	32.1	L1	GND

**MEASUREMENT RESULT: "vol\_0001\_fin AV"**

4/8/2020 2:43PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.155000	45.40	9.7	56	10.3	L1	GND
0.210000	38.90	9.7	53	14.3	L1	GND
0.260000	41.40	9.7	51	10.0	L1	GND
0.310000	37.10	9.7	50	12.8	L1	GND
0.365000	31.60	9.7	49	17.0	L1	GND
1.455000	26.50	9.8	46	19.5	L1	GND

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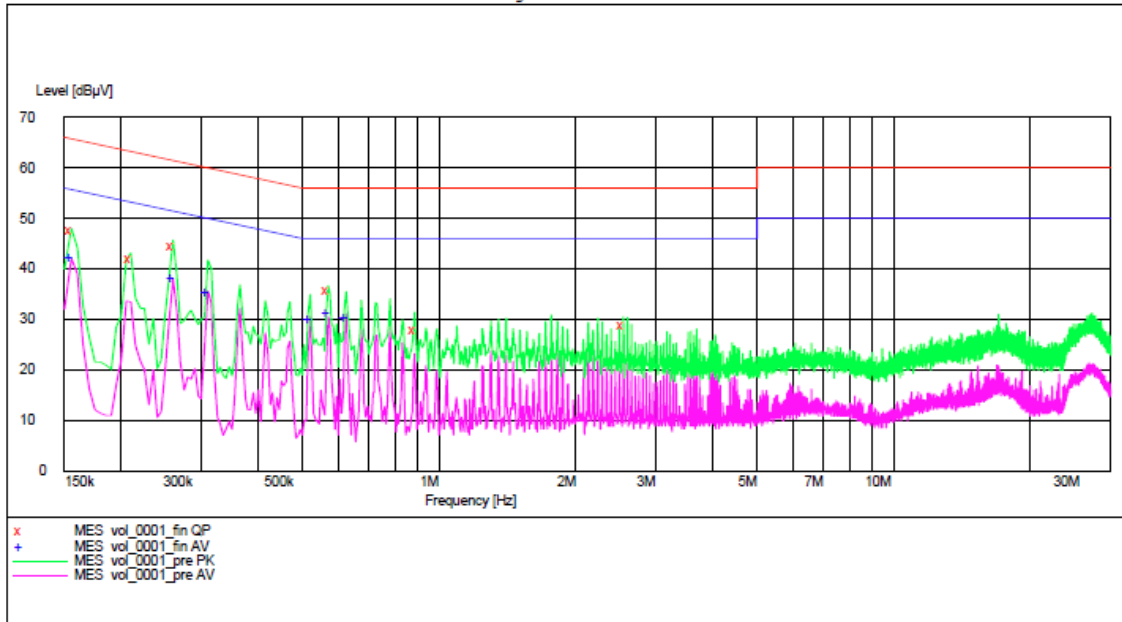


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**Results of On mode(MAX power, the worse case) (N): Pass**  
 Please refer to the following diagram for individual results.



**MEASUREMENT RESULT: "vol\_0001\_fin QP"**

4/8/2020 2:46PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.155000	47.70	9.7	66	18.0	N	GND
0.210000	42.10	9.7	63	21.1	N	GND
0.260000	44.60	9.7	61	16.9	N	GND
0.570000	35.70	9.7	56	20.3	N	GND
0.885000	27.80	9.7	56	28.2	N	GND
2.545000	28.80	9.8	56	27.2	N	GND

**MEASUREMENT RESULT: "vol\_0001\_fin AV"**

4/8/2020 2:46PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.155000	42.30	9.7	56	13.4	N	GND
0.260000	38.40	9.7	51	13.1	N	GND
0.310000	35.50	9.7	50	14.5	N	GND
0.520000	30.00	9.7	46	16.0	N	GND
0.570000	31.40	9.7	46	14.6	N	GND
0.625000	30.50	9.7	46	15.5	N	GND

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### Appendix A List of Measurement Equipment

#### Radiated Emissions

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD035	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100441	2019.04.19
EMD036	EMI Test Receiver	ROHDE & SCHWARZ	ESIB26	100388	2019.04.19
EMD061	Biconilog Antenna	ETS.LINDGREN	3142C	00060439	2019.01.05
EMD062	Double-Ridged Waveguide	ETS.LINDGREN	3117	00075933	2017.12.17
EMD084	MULTI-DVICE CONTROLLER	ETS.LINDGREN	2090	00060107	N/A
EMD088	Video Contol Unit	ETS.LINDGREN	Y21953A	2601073	N/A
EMD093	Monitor	ViewSonic	VA9036	Q8X064201876	N/A
EMD102	Intelligent Frequency	Ainuo Instrument Co., Ltd	AN97005SS	79707454	N/A
EMD105	FACT-3 EMC Chamber	ETS.LINDGREN	FACT-3	3803	2018.11.06
EMD165	Pre-Amplifier	A-INFO	LA1018N4014	J10100000355	2019.12.20
EMD-S02	RE Test software	AUDIX	e3	V9.14c31	N/A
EMD-S03	CE Test software	ROHDE & SCHWARZ	ESIB-K1	V1.20	N/A

#### Conducted Emissions

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD004	ZWEILEITER-V- NETZNACHBILDUNG TWO- LINE V-NETWORK	ROHDE & SCHWARZ	ESH3-Z5	100102	2019.04.19
EMD009	Passive Voltage Probe	ROHDE & SCHWARZ	ESH2-Z3	100020	2019.04.19
EMD035	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100441	2019.04.19
EMD036	EMI Test Receiver	ROHDE & SCHWARZ	ESIB26	100388	2019.04.19
EMD041	TWO-LINE V-NETWORK	ROHDE & SCHWARZ	ENV216	100261	2019.04.19
EMD103	Intelligent Frequency	Ainuo Instrument Co., Ltd	AN97005SS	79707455	N/A
EMD106	Shielding Room #1	ETS.LINDGREN	RFD-100	3802	2018.11.06
EMD-S02	CE Test software	AUDIX	e3	V9.14c31	N/A
EMD-S03	CE Test software	ROHDE & SCHWARZ	ESIB-K1	V1.20	N/A
EM334	8-WIRE ISN	TESEQ	ISN T8-Cat6	38867	2019.09.24

Remark:  
N/A: Not Applicable

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### Appendix B Photograph(s) of Product

**View of The Product**



**View of The Product**



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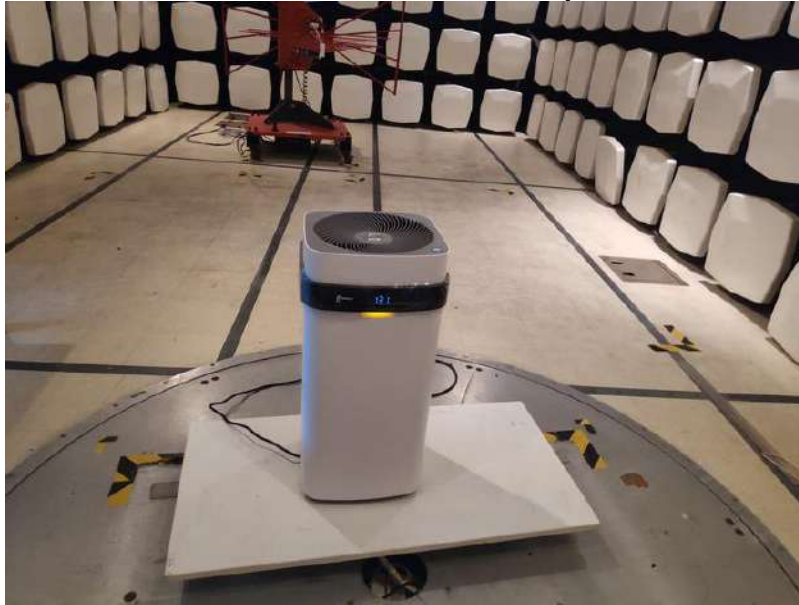
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### Photograph(s) of Product

**Radiated Emissions Test Set Up**



**Conducted Emissions Test Set Up**



\*\*\*\*\* End of Test Report \*\*\*\*\*

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**Applicant:** Guilin Woodpecker Medical Instrument Co., Ltd.  
Information Industrial Park, GuiLin National High-Tech Zone,  
GuiLin, GuangXi, 541004, P.R.China

**Description of Sample(s):** Submitted sample(s) said to be  
Product: Plasma Air Purifier  
Brand Name: WOODPECKER  
Model Number: YKX300-Q3

**Date Sample(s) Received:** 2020-04-07

**Date Tested:** 2020-04-07 to 2020-04-10

**Investigation Requested:** Test for compliance with EMC requirements of EN 55014-1,  
EN 55014-2, EN IEC 61000-3-2 and EN 61000-3-3.

**Conclusion(s):** The submitted product COMPLIED with the requirements of  
EN 55014-1:2017, EN 55014-2:2015, EN IEC 61000-3-2:2019  
and EN 61000-3-3:2013+A1:2019. The EMC tests were  
performed in accordance with the standards described above  
and on Section 2.2 in this Test Report.

**Remark(s):** Highest clock frequency of the EUT: 20MHz.  
This sample is a category IV apparatus of EN55014-2.



LONG Yun Jian, Along  
Authorized Signatory

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### **1.0 General Details**

#### **1.1 Equipment Under Test [EUT] Description of Sample(s)**

Product:	Plasma Air Purifier
Manufacturer:	Guilin Woodpecker Medical Instrument Co., Ltd. Information Industrial Park, GuiLin National High-Tech Zone, GuiLin, GuangXi, 541004, P.R.China
Brand Name:	WOODPECKER
Model Number:	YKX300-Q3
Rating:	100-240Va.c. 50/60Hz, 55W

#### **1.2 Date of Order**

2020-04-07

#### **1.3 Submitted Sample(s):**

1 Sample

#### **1.4 Test Duration**

2020-04-07 to 2020-04-10

#### **1.5 Country of Origin**

China

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### **2.0 Technical Details**

#### **2.1 Investigations Requested**

Perform ElectroMagnetic Interference [EMI] & ElectroMagnetic Susceptibility [EMS] tests for CE Marking

#### **2.2 Test Standards and Results Summary Tables**

<b>Test Standards</b>	
EN 55014-1:2017	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission
EN 55014-2:2015	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard
EN IEC 61000-3-2:2019	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current $\leq 16$ A per phase)
EN 61000-3-3:2013 +A1:2019	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low - voltage supply systems, for equipment with rated current $\leq 16$ A per phase and not subject to conditional connection

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### 2.2 Test Standards and Results Summary Tables

<b>EMISSION</b>						
<b>Results Summary</b>						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Failed	N/A
Radiated Emissions	EN 55014-1:2017	EN 55014-1:2017	Table 9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conducted Emissions	EN 55014-1:2017	EN 55014-1:2017	Table 5, Columns 2 & 3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Harmonic current Emissions	EN IEC 61000-3-2:2019	EN IEC 61000-3-2:2019	Class A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Voltage changes, voltage fluctuations and flicker	EN 61000-3-3:2013 +A1:2019	EN 61000-3-3:2013 +A1:2019	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>SUSCEPTIBILITY</b>						
<b>Results Summary</b>						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Failed	N/A
Electrostatic Discharge	EN 55014-2:2015	EN 61000-4-2:2009	±4.0kV Contact. ±8.0kV Air	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated, radio-frequency, electromagnetic field	EN 55014-2:2015	EN 61000-4-3:2006 +A1:2008 +A2:2010	3V/m	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electrical fast transient/burst	EN 55014-2:2015	EN 61000-4-4:2012	±1.0kV	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surges	EN 55014-2:2015	EN 61000-4-5:2014	±1.0kV ±2.0kV	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Conducted disturbances, induced by radio-frequency fields	EN 55014-2:2015	EN 61000-4-6:2014	3Vrms	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Voltage dips, short interruptions and voltage variations	EN 55014-2:2015	EN 61000-4-11:2004	0%, 40%, 70% of U <sub>T</sub>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Remark:  
N/A: Not Applicable  
U<sub>T</sub>: The nominal supply voltage

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### 3.0 Test Results

#### **3.1 Emission**

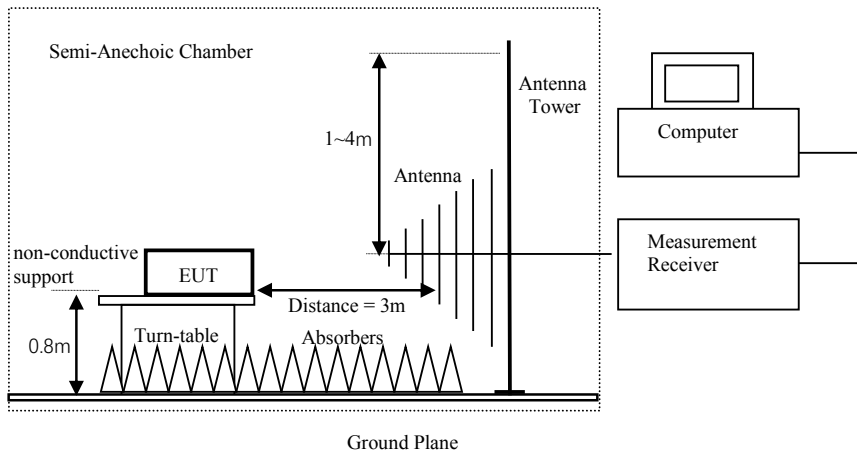
##### **3.1.1 Radiated Emissions (30MHz to 1000MHz)**

Test Requirement:	EN 55014-1
Test Method:	EN 55014-1
Level:	Table 9
Test Date(s):	2020-04-07
Mode of Operation:	On mode(Max power, the worse case)

#### **Test Method:**

The test was performed in accordance with EN 55014-1 at 3m test distance on a standard emission test site, with quasi-peak measurements performed if the maximised peak measurements were less than 6dB from the corresponding limit lines.

#### **Test Setup:**



- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used.

#### **Limits for Radiated Emission:**

Frequency Range MHz	Quasi-Peak Limits (SAC, Measurement distance 3m) dB( $\mu$ V/m)
30-230	40.0
230-1000	47.0

NOTE: The lower limit applies at the transition frequency.

Remark: Calculated measurement uncertainty (30MHz – 1GHz): 4.6dB  
Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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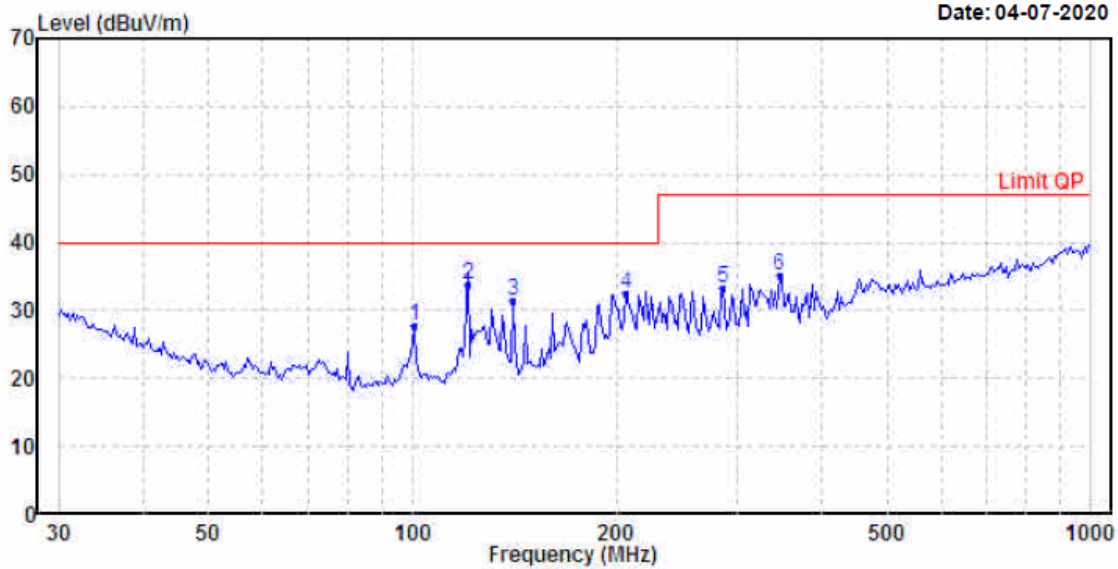
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**Results of On mode(Max power, the worse case): Pass**  
 Please refer to the following diagram for individual results.

Horizontal



Ambient Temperature: 23.0C  
 Relative Humidity : 56.0%

	Freq	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB		
1	100.229	27.75	40.00	-12.25	QP	Horizontal
2	120.277	33.77	40.00	-6.23	QP	Horizontal
3	140.342	31.44	40.00	-8.56	QP	Horizontal
4	206.398	32.45	40.00	-7.55	QP	Horizontal
5	286.982	33.23	47.00	-13.77	QP	Horizontal
6	346.809	35.22	47.00	-11.78	QP	Horizontal

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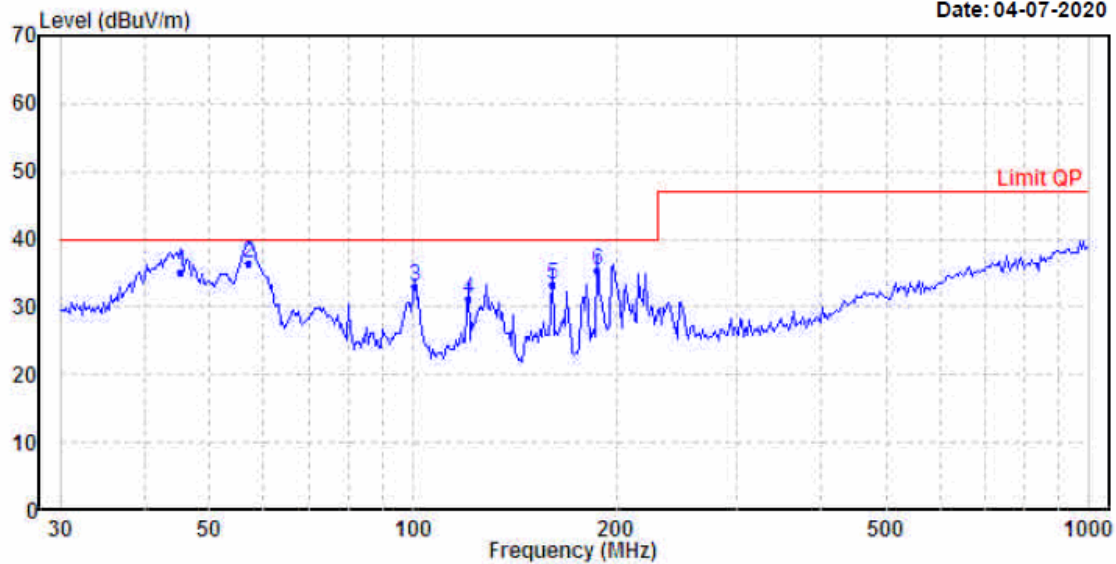
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**Results of On mode(Max power, the worse case): Pass**  
 Please refer to the following diagram for individual results.

Vertical



Date: 04-07-2020

Ambient Temperature: 23.0C  
 Relative Humidity : 56.0%

	Freq	Level	Limit	Over	Remark	Pol/Phase
	MHz	dBuV/m	Line	Limit		
			dBuV/m	dB		
1	45.375	35.02	40.00	-4.98	QP	Vertical
2	57.191	36.52	40.00	-3.48	QP	Vertical
3	100.229	33.06	40.00	-6.94	QP	Vertical
4	120.277	31.28	40.00	-8.72	QP	Vertical
5	160.346	33.39	40.00	-6.61	QP	Vertical
6	187.096	35.40	40.00	-4.60	QP	Vertical

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### 3.1.2 Conducted Emissions (150kHz to 30MHz)

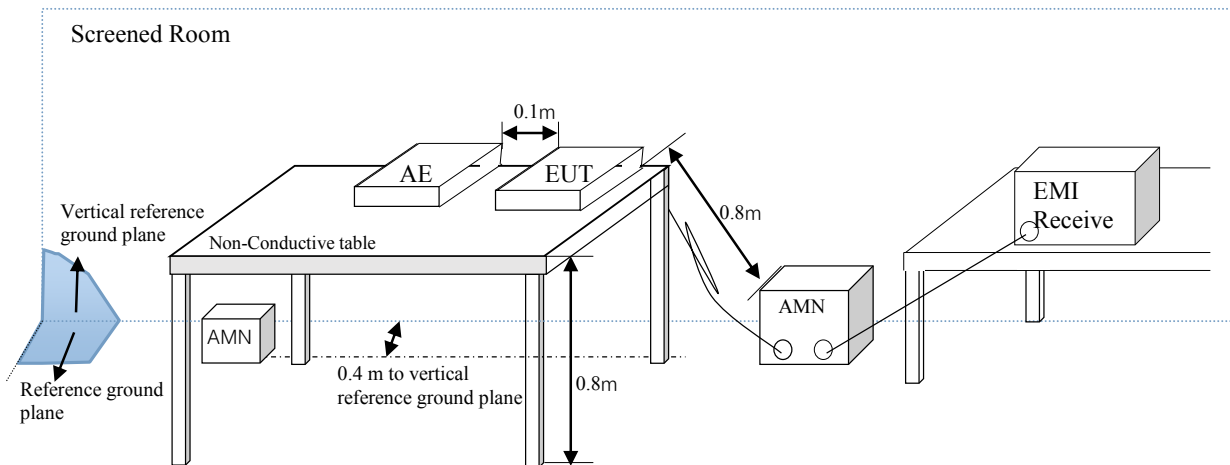
Test Requirement:	EN 55014-1
Test Method:	EN 55014-1
Level:	Table 5, Columns 2 & 3
Test Date(s):	2020-04-08
Mode of Operation:	On mode(Max power, the worse case)

**Test Method:**

The test was performed in accordance with EN 55014-1.

Initial measurements were performed in peak and average detection modes on the live line. Any emissions recorded within 30dB of the relevant limit lines were re-measured using quasi-peak and average detection on the live and neutral lines with the worst case recorded in the table of results.

**Test Setup:**



**Limit for conducted emission:**

Frequency Range MHz	Quasi-Peak dB(μV)	Average dB(μV)
0.15-0.5	66 to 56*	59 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

At the transition frequency, the more stringent limit shall apply.

\* Decreasing linearly with logarithm of frequency.

**Remark:**

Calculated measurement uncertainty (0.15MHz – 30MHz): 3.2dB

Emissions have been investigated and the worst-case test results are recorded in this report.

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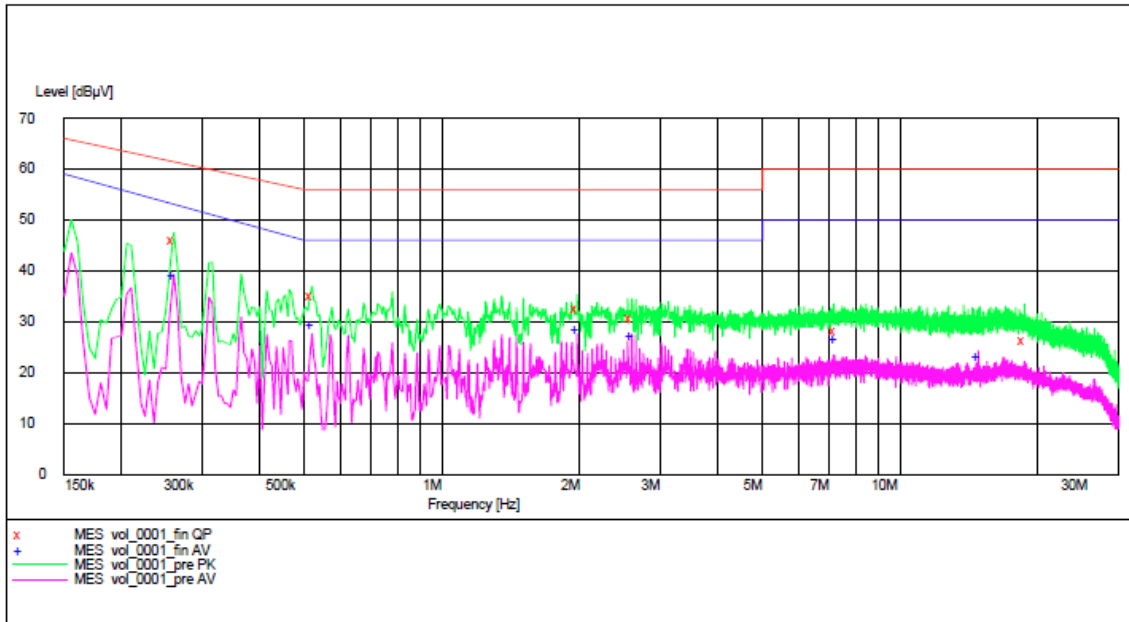
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**Results of On mode(Max power, the worse case) (L): Pass**

Please refer to the following diagram for individual results.



**MEASUREMENT RESULT: "vol\_0001\_fin QP"**

4/8/2020 2:34PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.260000	46.20	9.7	61	15.2	L1	GND
0.520000	35.00	9.7	56	21.0	L1	GND
1.975000	32.50	9.8	56	23.5	L1	GND
2.595000	30.60	9.8	56	25.4	L1	GND
7.220000	28.10	9.9	60	31.9	L1	GND
18.665000	26.30	10.3	60	33.7	L1	GND

**MEASUREMENT RESULT: "vol\_0001\_fin AV"**

4/8/2020 2:34PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.260000	39.20	9.7	53	13.8	L1	GND
0.520000	29.60	9.7	46	16.4	L1	GND
1.975000	28.40	9.8	46	17.6	L1	GND
2.600000	27.40	9.8	46	18.6	L1	GND
7.225000	26.60	9.9	50	23.4	L1	GND
14.810000	23.10	10.2	50	26.9	L1	GND

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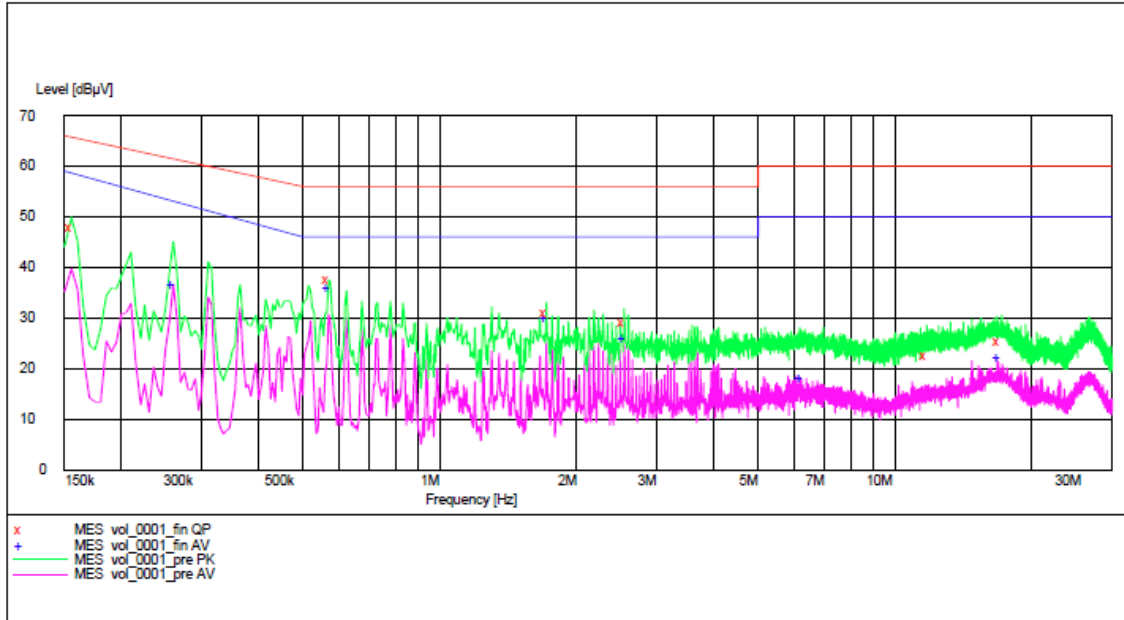


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**Results of On mode(Max power, the worse case) (N): Pass**  
 Please refer to the following diagram for individual results.



**MEASUREMENT RESULT: "vol\_0001\_fin QP"**

4/8/2020 2:40PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Line	PE
0.155000	47.90	9.7	66	17.8	N	GND
0.570000	37.70	9.7	56	18.3	N	GND
1.715000	31.10	9.8	56	24.9	N	GND
2.545000	29.10	9.8	56	26.9	N	GND
11.730000	22.40	10.1	60	37.6	N	GND
16.990000	25.30	10.3	60	34.7	N	GND

**MEASUREMENT RESULT: "vol\_0001\_fin AV"**

4/8/2020 2:39PM

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Line	PE
0.260000	36.70	9.7	53	16.3	N	GND
0.570000	35.90	9.7	46	10.1	N	GND
1.715000	30.10	9.8	46	15.9	N	GND
2.545000	26.10	9.8	46	19.9	N	GND
6.235000	18.30	9.9	50	31.7	N	GND
16.940000	22.20	10.3	50	27.8	N	GND

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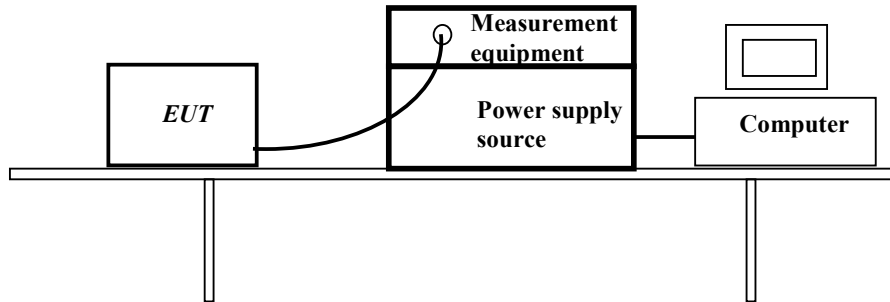
### 3.1.3 Harmonic current Emissions

Test Requirement:	EN IEC 61000-3-2
Test Method:	EN IEC 61000-3-2
Level:	Class A
Test Date(s):	2020-04-08
Mode of Operation:	On mode(Max power, the worse case)
Input Voltage:	230Va.c.

#### Test Method:

The test was performed in accordance with EN IEC 61000-3-2.

#### Test Setup:



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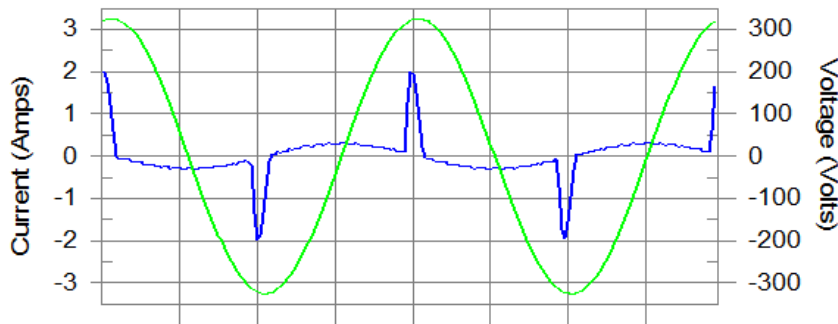
### Results and limit line for Harmonic current Emissions:

For limits for Harmonics Emission Test, please refer to limit lines (saw-tooth) in the following diagram.

### Results: Pass

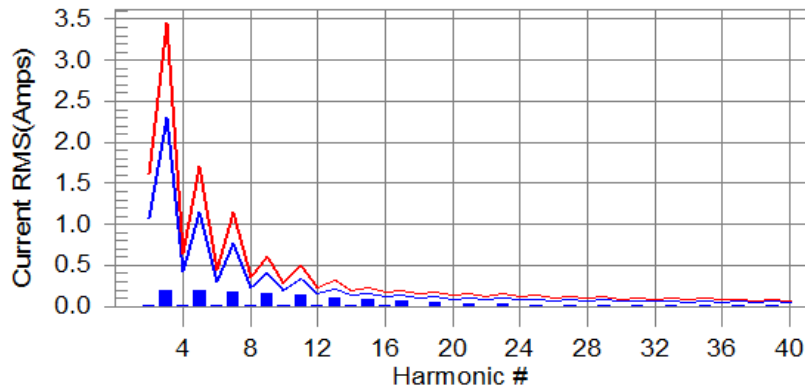
Please refer to the following table for individual results.

### Current & voltage waveforms



### Harmonics and Class A limit line

### European Limits



### Remark:

- Upper limit line = 150 % limit

- Lower limit line = 100 % limit

Calculated measurement uncertainty: 7.1%

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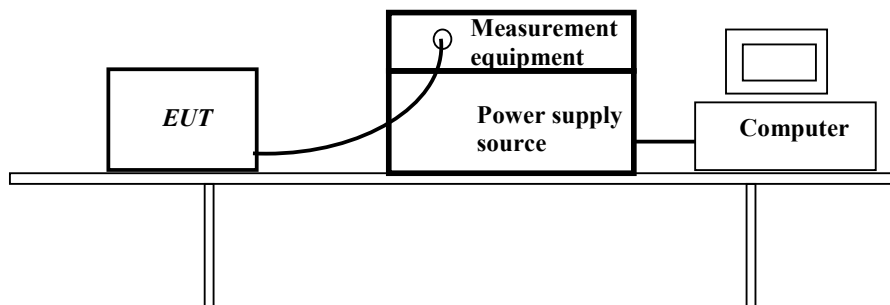
### 3.1.4 Voltage changes, voltage fluctuations and flicker

Test Requirement:	EN 61000-3-3
Test Method:	EN 61000-3-3
Level:	N/A
Test Date(s):	2020-04-08
Mode of Operation:	On mode(Max power, the worse case)

#### **Test Method:**

The test was performed in accordance with EN 61000-3-3.

#### **Test Setup:**



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### **Limits for Voltage changes, voltage fluctuations and flicker:**

Refer to the result table for details.

### **Results: Pass**

Please refer to the following table for individual results.

#### Maximum Occurring Levels:

Pst:	0.064	Limit =	1.00	(The Highest Short Term Flicker Value)
Plt:	0.028	Limit =	0.65	(The Highest Long Term Flicker Value)
dc(%):	0.00	Limit =	3.30%	(The Highest Relative Steady State Voltage Change (1sec))
dmax:	0.00	Limit =	4.00%	(*The Highest Maximum Relative Voltage Change)
Tdt:	0.0	Limit =	500ms	(The Max Time (in milli-sec) that dt exceeds 3.3%)
Ut:	230.13			(EUT Test RMS Voltage)

#### Remark:

\* - Some products may have more relax limits (refer to Clause 5 of EN 61000-3-3)  
Calculated measurement uncertainty: 7.7%

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### 3.2 Immunity

#### 3.2.1 Susceptibility Performance Criteria

<b>A</b>	<b>Normal performance within the specification limits</b>
<b>B</b>	<b>Temporary degradation or loss of function or performance which is self-recoverable</b>
<b>C</b>	<b>Temporary degradation or loss of function or performance which requires operator intervention or system reset</b>
<b>D</b>	<b>Degradation or loss of function which is not recoverable due to damage of equipment (components) or software, or loss of data</b>

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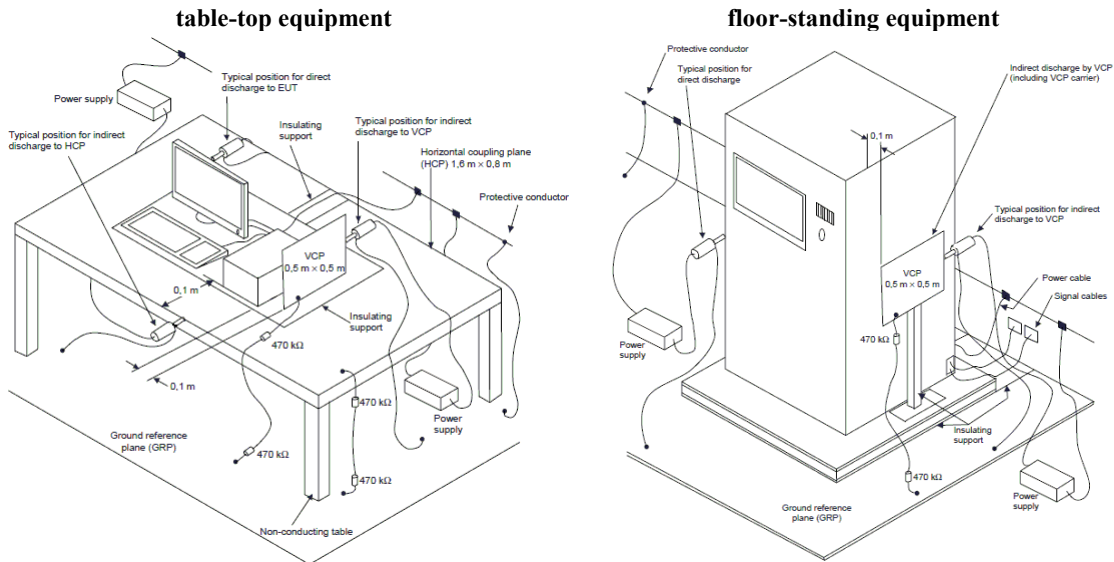
### 3.2.2 Electrostatic Discharge

Test Requirement:	EN 55014-2
Test Method:	EN 61000-4-2
Severity:	±4kV for Direct & Indirect Contact Discharge ±8kV for Air Discharge
<b>Performance Criterion Requirement:</b>	<b>B</b>
Ambient Temperature:	23.2°C
Relative Humidity:	53.1%
Atmospheric Pressure:	101.1kPa
Test Date(s):	2020-04-10
Mode of Operation:	On mode(Max power, the worse case)

#### Test Method:

The test was performed in accordance with EN 61000-4-2.

#### Test Setup:



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**Test Levels for Electrostatic Discharge test:**

Level	Test Voltage Direct & Indirect Contact Discharge	Test Voltage Air Discharge
1	±2kV	±2kV
2	±4kV	±4kV
3	±6kV	±8kV
4	±8kV	±15kV
x <sup>a</sup>	Special	Special

a "x" can be any level, above, below or in between the others. The level shall be specified in the dedicated equipment specification. If higher voltages than those shown are specified, special test equipment may be needed.

**Results: Pass**

Please refer to the following table for individual results.  
 Photograph depicting the exact ESD test points with discharge method identified was in appendix B.

Location	Discharge Method	Test Voltage	Individual Results	
			Pass	Failed
HCP [Horizontal Coupling Plane]	Indirect Contact	/	<input type="checkbox"/>	<input type="checkbox"/>
VCP [Vertical Coupling Plane]	Indirect Contact	±4kV	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gaps	Air	±8kV	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Screen/Buttons	Air	±8kV	<input checked="" type="checkbox"/>	<input type="checkbox"/>

***EUT Grounding	<input checked="" type="checkbox"/> Grounded	<input type="checkbox"/> Ungrounded
------------------	--	-------------------------------------

**Remark:**

\*\*\*For ungrounded EUT, the charge on the EUT shall be removed prior to each applied ESD pulse  
 Calculated measurement uncertainty:  
 Rise time  $t_r$ : 15%  
 Peak current  $I_p$ : 6.3%  
 Current at 30 ns and 60 ns: 6.3%

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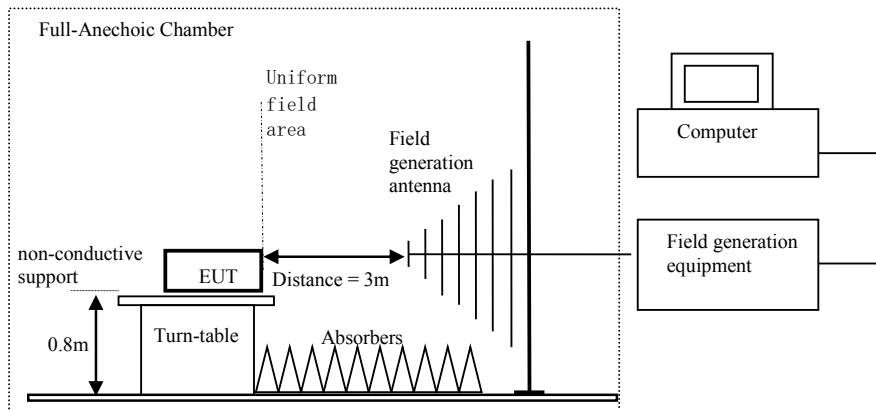
### 3.2.3 Radiated, radio-frequency, electromagnetic field

Test Requirement:	EN 55014-2
Test Method:	EN 61000-4-3
Severity:	3V/m
Modulation:	1kHz 80% AM
<b>Performance Criterion Requirement:</b>	<b>A</b>
Ambient Temperature:	23.2°C
Relative Humidity:	53.1%
Atmospheric Pressure:	101.1kPa
Test Date(s):	2020-04-10
Mode of Operation:	On mode(Max power, the worse case)

#### Test Method:

The test was performed in accordance with EN 61000-4-3.

#### Test Setup:



- optional anechoic material in case of full-anechoic chamber to reduce ground reflection.
- Measurements between 30MHz to 3000MHz made with Bi-log antennas, above 3000MHz horn antennas are used.
- Proximity fields from RF wireless communications equipment test distance was 1m.

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**Test Levels for Radiated, radio-frequency, electromagnetic field test:**

Level	Field Strength V/m
1	1
2	3
3	10
4	30
x	Special

NOTE x is an open test level and the associated field strength may be any value. This level may be given in the product standard.

**Results: Pass**

Please refer to the following table for individual results.

Frequency (MHz)	Face	Polarity	Level (V/m)	Dwell Time (s)	Sweep rate (%)	Individual Results	
						Pass	Failed
80-1000	0°	Horizontal	3	3	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
80-1000	90°	Horizontal	3	3	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
80-1000	180°	Horizontal	3	3	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
80-1000	270°	Horizontal	3	3	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
80-1000	0°	Vertical	3	3	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
80-1000	90°	Vertical	3	3	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
80-1000	180°	Vertical	3	3	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
80-1000	270°	Vertical	3	3	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Remark:**

The dwell time at each frequency is according to the standard being applied and the basic standard  
 Calculated measurement uncertainty: 2.11dB

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### 3.2.4 Electrical fast transient/burst

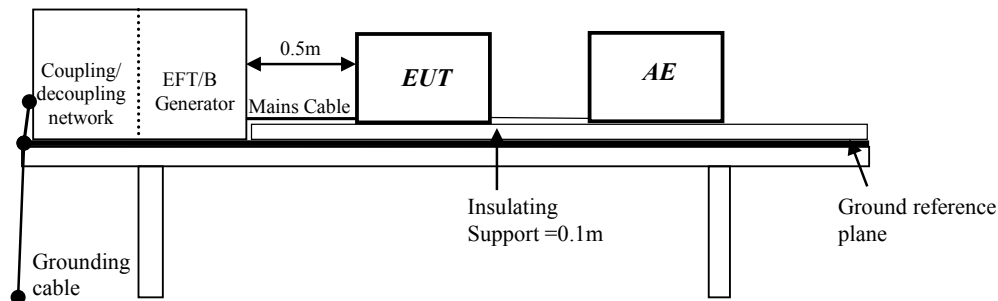
Test Requirement: EN 55014-2  
Test Method: EN 61000-4-4  
Severity:  $\pm 0.5\text{kV}$  for Signal and control ports  
 $\pm 1\text{kV}$  for AC port

**Performance Criterion Requirement: B**  
Ambient Temperature:  $53.2^{\circ}\text{C}$   
Relative Humidity:  $53.1\%$   
Atmospheric Pressure:  $101.1\text{kPa}$   
Test Date(s): 2020-04-10  
Mode of Operation: On mode(Max power, the worse case)

#### Test Method:

The test was performed in accordance with EN 61000-4-4.

#### Test Setup:



EUT: Equipment Under Test

AE: Auxiliary Equipment

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### Test Levels for Electrical fast transient/burst test:

Level	Power ports, earth port (PE)		Signal and control ports	
	Voltage peak kV	Repetition rate kHz	Voltage peak kV	Repetition rate kHz
1	0.5	5.0	0.25	5.0
2	1.0	5.0	0.50	5.0
3	2.0	5.0	1.00	5.0
4	4.0	5.0	2.00	5.0
X <sup>a</sup>	Special	Special	Special	Special

<sup>a</sup> "X" can be any level, above, below or in between the others. The level shall be specified in the dedicated equipment specification.

### Results: Pass

Please refer to the following table for individual results.

Conductor	Polarity & Level (kV)	Duration/Polarity (sec.)	Individual Results	
			Pass	Fail
Live - Neutral - Earth	±1.0	120	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Remark:

Calculated measurement uncertainty:  
Peak voltage of the EFT/B: U= 6.9%  
Rise time of the EFT/B voltage: U= 6.5%  
Pulse width of the EFT/B voltage: U= 4.9%

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### 3.2.5 Surges

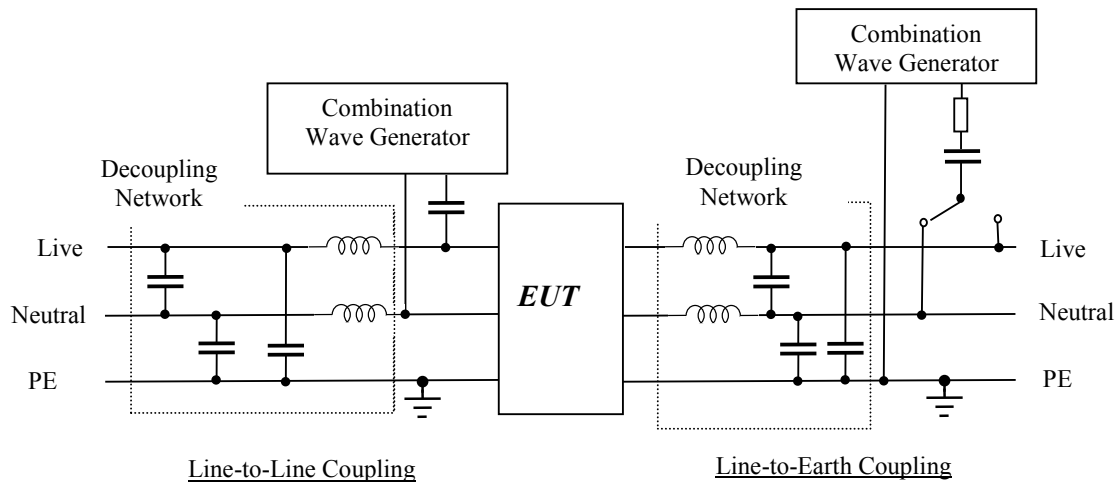
Test Requirement: EN 55014-2  
Test Method: EN 61000-4-5  
Severity:  $\pm 1\text{kV}$  (Line-to-line)  
 $\pm 2\text{kV}$  (Line-to-ground)

**Performance Criterion Requirement: B**  
Ambient Temperature: 23.2°C  
Relative Humidity: 53.1%  
Atmospheric Pressure: 101.1kPa  
Test Date(s): 2020-04-10  
Mode of Operation: On mode(Max power, the worse case)

#### Test Method:

The test was performed in accordance with EN 61000-4-5.

#### Test Setup:



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**Test levels for Surges test:**

Level	Open-circuit test voltage kV	
	Line-to-line	Line-to-ground <sup>b</sup>
1	---	0.5
2	0.5	1
3	1	2
4	2	4
X <sup>a</sup>	Special	Special

<sup>a</sup> "X" can be any level, above, below or in between the others. The level shall be specified in the dedicated equipment specification.

<sup>b</sup> For symmetrical interconnection lines the test can be applied to multiple lines simultaneously with respect to ground, i.e. "lines to ground".

**Results: Pass**

Please refer to the following table for individual results.

Conductor	Level & Polarity (kV)	No. of surge per phase angle	Phase Angle	Surge Interval (sec)	Individual Results	
					Pass	Fail
Live - Neutral	+1.0	5	90°	60	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	-1.0		270°		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Live - Earth	+2.0	5	90°	60	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	-2.0		270°		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Earth - Neutral	+2.0	5	90°	60	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	-2.0		270°		<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Remark:**

Calculated measurement uncertainty:  
Peak of the surge open-circuit voltage: U= 8.4%  
Front time of the surge open-circuit voltage: U= 15.6%  
Duration of the surge open-circuit voltage: U= 0.51%

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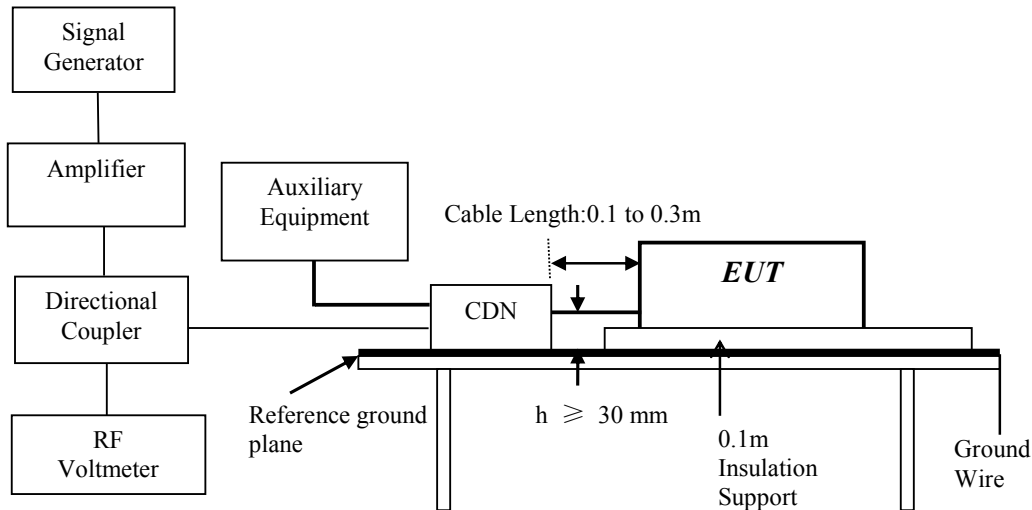
### 3.2.6 Conducted disturbances, induced by radio-frequency fields

Test Requirement:	EN 55014-2
Test Method:	EN 61000-4-6
Severity:	3V(e.m.f.)
Modulation:	1kHz 80% AM
<b>Performance Criterion Requirement:</b>	<b>A</b>
Ambient Temperature:	23.2°C
Relative Humidity:	53.1%
Atmospheric Pressure:	101.1kPa
Test Date(s):	2020-04-10
Mode of Operation:	On mode(Max power, the worse case)

#### Test Method:

The test was performed in accordance with EN 61000-4-6.

#### CDN Test Setup:



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**Test Levels for Conducted disturbances, induced by radio-frequency fields test:**

Frequency range 150kHz - 80MHz		
Level	Voltage level (e.m.f.)	
	U <sub>o</sub> dB(μV)	U <sub>o</sub> V
1	120	1
2	130	3
3	140	10
X <sup>a</sup>	Special	Special

<sup>a</sup> "X" can be any level, above, below or in between the others. The level has to be specified in the dedicated equipment specification.

**Results: Pass**

Please refer to the following table for individual results.

Conductor	Frequency (MHz)	Level (V)	Dwell Time (s)	Sweep rate (%)	Individual Results	
					Pass	Failed
Live - Neutral - Earth	0.15-230	3	3	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Remark:**

Calculated measurement uncertainty:  
 Voltage test level using CDN: U= 1.40dB  
 Voltage test level using Current clamp: U= 3.17dB

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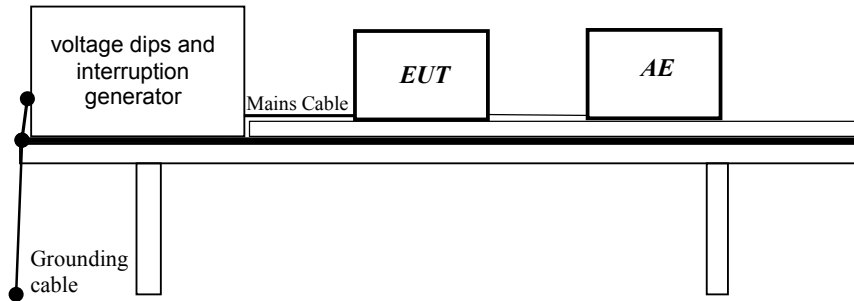
### 3.2.7 Voltage dips, short interruptions and voltage variations

Test Requirement:	EN 55014-2
Test Method:	EN 61000-4-11
Severity:	[0, 40, 70]% of $U_T$
<b>Performance Criterion Requirement:</b>	<b>C</b>
Ambient Temperature:	23.2°C
Relative Humidity:	53.1%
Atmospheric Pressure:	101.1kPa
Test Date(s):	2020-04-10
Mode of Operation:	On mode(Max power, the worse case)

#### Test Method:

The test was performed in accordance with EN 61000-4-11.

#### Test Setup:



EUT: Equipment Under Test

AE: Auxiliary Equipment

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### Test Levels for Voltage dips, short interruptions and voltage variations test:

Severity Level % of $U_T$	Voltage dip and short interruptions % of $U_T$	Duration Cycles
0	100	0.5
40	60	10
70	30	25

### Results: Pass

Please refer to the following table for individual results.

Phase	Test Level (% of $U_T$ )	Duration Cycles	Individual Results	
			Pass	Failed
0°, 180°	0	0.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0°, 180°	40	10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
0°, 180°	70	25	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### Remark:

$U_T$  - Nominal supply voltage

The measurement uncertainty (with a 95% confidence level) for this test was 4.1% of tested voltage

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### Appendix A

#### List of Measurement Equipment

##### Radiated Emissions

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD035	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100441	2019.04.19
EMD036	EMI Test Receiver	ROHDE & SCHWARZ	ESIB26	100388	2019.04.19
EMD061	Biconilog Antenna	ETS.LINDGREN	3142C	00060439	2019.01.05
EMD062	Double-Ridged Waveguide	ETS.LINDGREN	3117	00075933	2017.12.17
EMD084	MULTI-DVICE CONTROLLER	ETS.LINDGREN	2090	00060107	N/A
EMD088	Video Contol Unit	ETS.LINDGREN	Y21953A	2601073	N/A
EMD093	Monitor	ViewSonic	VA9036	Q8X064201876	N/A
EMD102	Intelligent Frequency	Ainuo Instrument Co., Ltd	AN97005SS	79707454	N/A
EMD105	FACT-3 EMC Chamber	ETS.LINDGREN	FACT-3	3803	2018.11.06
EMD165	Pre-Amplifier	A-INFO	LA1018N4014	J10100000355	2019.12.20
EMD-S02	RE Test software	AUDIX	e3	V9.14c31	N/A
EMD-S03	CE Test software	ROHDE & SCHWARZ	ESIB-K1	V1.20	N/A

##### Conducted Emissions

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD004	ZWEILEITER-V- NETZNACHBILDUNG TWO- LINE V-NETWORK	ROHDE & SCHWARZ	ESH3-Z5	100102	2019.04.19
EMD009	Passive Voltage Probe	ROHDE & SCHWARZ	ESH2-Z3	100020	2019.04.19
EMD035	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100441	2019.04.19
EMD036	EMI Test Receiver	ROHDE & SCHWARZ	ESIB26	100388	2019.04.19
EMD041	TWO-LINE V-NETWORK	ROHDE & SCHWARZ	ENV216	100261	2019.04.19
EMD103	Intelligent Frequency	Ainuo Instrument Co., Ltd	AN97005SS	79707455	N/A
EMD106	Shielding Room #1	ETS.LINDGREN	RFD-100	3802	2018.11.06
EMD-S02	RE Test software	AUDIX	e3	V9.14c31	N/A
EMD-S03	CE Test software	ROHDE & SCHWARZ	ESIB-K1	V1.20	N/A

##### Harmonic current Emissions & Voltage changes, voltage fluctuations and flicker

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD013	AC POWER SOURCE	SCHAFFNER	NSG1007	54964	2019.04.19
EMD014	HARMONIC & FLICKER METER	SCHAFFNER	CCN1000	72104	2019.04.19
EMD-S05	Harmonics/ Flicker Test software	TESEQ	Win2100V3	V3.2.0.35	N/A

##### Conducted disturbances, induced by radio-frequency fields

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD023	DUAL DIRECTIONAL COUPLER	AMPLIFIER RESEARCH	DC2600A	308682	2019.07.26
EMD024	AMPLIFIER	AMPLIFIER RESEARCH	75A250A	308682	2019.04.19
EMD025	POWER METER	ROHDE & SCHWARZ	NRVD	102051	2019.04.19
EMD026	SIGNAL GENERATOR	ROHDE & SCHWARZ	SML01	102439	2019.04.19
EMD029	COUPLING DECOUPLING NETWORK	FISCHER CUSTOM COMMUNICATIONS INC	30W1000B	4022	2019.04.19
EMD-S09	CI Test software	ROHDE & SCHWARZ	EMC32	V5.20.0	N/A

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### List of Measurement Equipment

#### Electrostatic Discharge

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD034	DEHUMIDIFIER	KAWASIMA ELECTRICAL APPLIANCE CO.,LTD	DH-820H	N/A	N/A
EMD100	THERMOHYGROGRAPH	SATO KEIRYOKI MFG.CO.,LTD.	7210-00	1633581	2019.11.12
EMD109	BAROGRAPH	SATO KEIRYOKI MFG.CO.,LTD.	NSII-BQ	567719	2019.11.12
EMD139	ESD Simulator	TESEQ	NSG 438	873	2019.11.11

#### Radiated, radio-frequency, electromagnetic field

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD111	Power meter	ROHDE & SCHWARZ	NRVD	102051	2019.04.19
EMD137	Signal Generator	ROHDE & SCHWARZ	SMB100A	1406600K02-104532-DF	2019.04.19
EMD060	Biconilog Antenna	ETS.LINDGREN	3142C	00060445	2017.12.17
EMD130	Broadband Horn Antenna	Chengdu AINFO Inc.	JXTXLB-10180-SF	J2031090903006	2018.06.20
EMD063	Power Amplifier	BONN ELEKTRONIK	BLWA0810-250/100D	066454A	2019.04.19
EMD064	Power Amplifier	BONN ELEKTRONIK	BLWA0840-50/30D	066454B	2019.04.19
EMD159	Power Amplifier	rflight	NTWPA-256050	18013015	2019.04.19
EMD104	SPACESAVER 26H EMC Chamber	ETS.LINDGREN	RFD-F-100	3801	2018.11.06
EMD-S07	RI Test software	ROHDE & SCHWARZ	EMC32	V8.40.0	N/A

#### Electrical fast transient/burst

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD053	TRANSIENT IMMUNITY TEST SYSTEM	EMC-PARTNER	TRANSIENT2000	845	2019.04.19
EMD-S08	EFT Test software	EMC PARTNET	Test-Manager	V1.71	N/A

#### Surges

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD053	TRANSIENT IMMUNITY TEST SYSTEM	EMC-PARTNER	TRANSIENT2000	845	2019.04.19
EMD-S08	SURGE Test software	EMC PARTNET	Test-Manager	V1.71	N/A

#### Voltage dips, short interruptions and voltage variations

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL
EMD053	TRANSIENT IMMUNITY TEST SYSTEM	EMC-PARTNER	TRANSIENT2000	845	2019.04.19
EMD-S08	DIPS Test software	EMC PARTNET	Test-Manager	V1.71	N/A

Remark:  
N/A: Not Applicable

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### Appendix B

#### Photograph (S) Of Product

**View of The Product**



**View of The Product**



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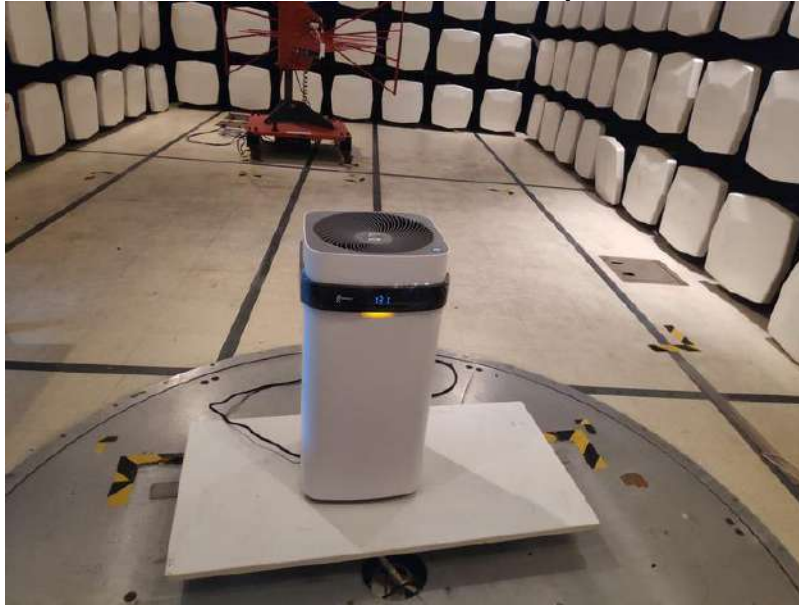
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### Photograph (S) Of Product

**Radiated Emissions Test Set Up**



**Conducted Emissions Test Set Up**



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### Photograph (S) Of Product

#### Harmonic current Emissions & Voltage changes, voltage fluctuations and flicker Test Set Up



#### Electrostatic Discharge Test Set Up



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### Photograph (S) Of Product

**Electrostatic Discharge Test points**



**Electrostatic Discharge Test points**



- ✕ Direct Contact Discharge / Indirect Contact Discharge
- Air Discharge

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### Photograph (S) Of Product

**Radiated, radio-frequency, electromagnetic field Test Set Up**



**Electrical fast transient/burst & Surges & Voltage dips, short interruptions and voltage variations Test Set Up**



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### Photograph (S) Of Product

**Conducted disturbances, induced by radio-frequency fields Test Set Up**



**\*\*\*\*\*End of Test Report\*\*\*\*\***

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5. The results in Report apply only to the sample as received and do not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
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11. Subject to the variable length of retention time for test data and report stored hereinto as to otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of this test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after the retention period. Under no circumstances shall we be liable for damages of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.
12. Issuance records of the Report are available on the internet at [www.stc.group](http://www.stc.group). Further enquiry of validity or verification of the Reports should be addressed to the Company.



STC (Dongguan) Company Limited  
**EC VERIFICATION OF COMPLIANCE**

**Reference Number:** EMC-D205480VOC

**Applicant:** Guilin Woodpecker Medical Instrument Co., Ltd.  
Information Industrial Park, GuiLin National High-Tech Zone, GuiLin,  
GuangXi, 541004, P.R.China

**Description:** Plasma Air Purifier  
**Brand Name:** WOODPECKER  
**Model:** YKX300-Q3

We verify that the mentioned product complies with the requirements of the  
**EC Electromagnetic Compatibility Directive 2014/30/EU**

**Applicable Standard(s) with amendments:**

EN 55014-1:2017  
EN 55014-2:2015  
EN IEC 61000-3-2:2019  
EN 61000-3-3:2013+A1:2019

**General Remarks:**

This verification confirmation is only valid when used in conjunction with the technical file(s) refers to DM20040012.  
This document applies specifically to the sample(s) investigated in the technical report mentioned above, and not to the bulk.  
The CE marking as shown below can be affixed on the product after preparation of necessary conformity documentation, as stipulated in articles of above Directive(s).



**Test Laboratory**

  
LONG Yun Jian, Along  
Authorized Signatory

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**Date of Issue:** 2020-04-17