# **FCC RF Test Report**

APPLICANT : NOTHING TECHNOLOGY LIMITED

**EQUIPMENT**: SMART PHONE

BRAND NAME : NOTHING

MODEL NAME : A065

FCC ID : 2AZEQ-A065

STANDARD : FCC Part 15 Subpart C §15.209

CLASSIFICATION: (DCD) Part 15 Low Power Transmitter Below 1705 kHz

TEST DATE(S) : Apr. 05, 2023 ~ Apr. 14, 2023

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

JasonJia

Approved by: Jason Jia





Report No.: FR330214E

## Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

Sporton International Inc. (ShenZhen)

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: 2AZEQ-A065 Page Number : 1 of 25
Report Issued Date : May 11, 2023

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# History of this test report

Report No.	Version	Description	Issued Date
FR330214E	01	Initial issue of report	May 11, 2023

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## **Summary of Test Result**

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	2.1049	99% Occupied Bandwidth	Reporting Only	-
3.2	15.209	Radiated Emission	Pass	Under limit 7.70 dB at 44.55 MHz
3.3	15.207	AC Conducted Emission	Pass	Under limit 9.48 dB at 0.15 MHz
3.4	15.203	Antenna Requirements	Pass	-

## **Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

## **Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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# 1 General Description

## 1.1 Applicant

### **NOTHING TECHNOLOGY LIMITED**

80 Cheapside, London, England EC2V 6EE

## 1.2 Manufacturer

### **NOTHING TECHNOLOGY LIMITED**

80 Cheapside, London, England EC2V 6EE

## 1.3 Product Feature of Equipment Under Test

Product Feature				
Equipment	Smart Phone			
Brand Name	NOTHING			
Model Name	A065			
FCC ID	2AZEQ-A065			
HW Version	22111			
SW Version	Nothing OS 2.0.0			
WPT Frequency Range	110 ~ 148 kHz			
WPT Type of Modulation	ASK			
WPT Antenna Type	Loop antenna			
EUT Stage	Identical Prototype			

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**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.4 Modification of EUT

No modifications are made to the EUT during all test items.

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## 1.5 Test Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

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Test Firm	Sporton International Inc. (ShenZhen)						
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595						
	Sporton Site No.	FCC Test F . FCC Designation No.					
Test Site No.		. cc 2 cc.gnaden ner	Registration No.				
	CO01-SZ TH01-SZ	CN1256	421272				

Test Firm	Sporton International Inc. (ShenZhen)					
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398					
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.			
	03CH05-SZ	CN1256	421272			

## 1.6 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH05-SZ	AUDIX	E3	6.2009-8-24
2.	CO01-SZ	AUDIX	E3	6.120613b

## 1.7 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.209, §15.207
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- ANSI C63.10-2013

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.

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# 2 Test Configuration of Equipment Under Test

## 2.1 Test Mode

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 1000 MHz).
- b. AC power line Conducted Emission was tested under maximum output power.

Test Items	Function Type			
	Mode 1: Wireless Charging(Reverse charging with position parallel)			
Occupied Bandwidth	Mode 2: Wireless Charging(Reverse charging with position perpendicular)			
	Mode 3: Wireless Charging(Reverse charging with position perpendicular)			
	Mode 1: Wireless Charging(Reverse charging with position parallel) + USB Cable (Charging from Adapter)			
Radiated Emission	Mode 2: Wireless Charging(Reverse charging with position perpendicular) + USB Cable (Charging from Adapter)			
	Mode 3: Wireless Charging(Reverse charging with position tilt) + USB Cable (Charging from Adapter)			
AC Conducted Emission	Mode 1: Wireless Charging(Reverse charging with position parallel) + USB Cable (Charging from Adapter)			

### Remark:

- 1. The worst case of Occupied Bandwidth is mode 3, only this mode is shown in the report;
- 2. The worst case of radiated emission is mode 2, only this mode is shown in the report;
- 3. The tests were performed with Adapter and USB Cable;
- **4.** The three WPT charging positions are shown as below:

Parallel	Perpendicular	Tilt

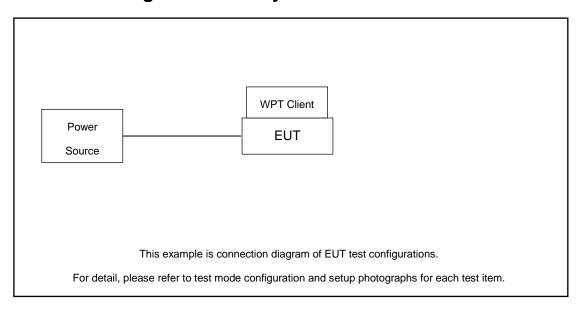
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# 2.2 Connection Diagram of Test System



# 2.3 Support Unit used in test configuration and system

Ite	em	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1		Mobile Phone (WPT Client)	N/A	N/A	N/A	N/A	N/A

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## 3 Test Result

## 3.1 99% Occupied Bandwidth Measurement

## 3.1.1 Limit of 99% Occupied Bandwidth

Reporting only.

## 3.1.2 Measuring Instruments

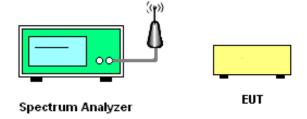
See list of measuring equipment of this test report.

### 3.1.3 Test Procedures

- 1. Use the following spectrum analyzer settings for 99 % Bandwidth measurement.
- 2. Measure and record the results in the test report.

Note: Because the measured signal is CW-like signal, adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.

## 3.1.4 Test Setup



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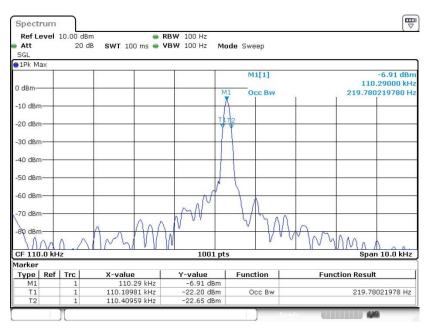
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## 3.1.5 Test Result of 99% Bandwidth

Tost En	Engineer :	Chan Ban	Temperature :	24~26℃
lest Eng		Chen Ran	Relative Humidity :	50~53%

99% Occupied BW(kHz) : 0.21978 kHz						
	f <sub>L</sub> > 110 kHz	<b>f</b> <sub>L</sub> = 110.18981 kHz	Test Result			
Frequency range (KHz)	f <sub>H</sub> < 148 kHz	<b>f</b> <sub>H</sub> = 110.40959 kHz	Complies			

Mode 3 99% Occupied Bandwidth Plot



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#### 3.2 **Radiated Emission Measurement**

#### 3.2.1 **Limit of Radiated Emission**

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Receiver Parameter	Setting
Frequency Range: 9kHz~150kHz	RBW 200Hz for QP
Frequency Range: 150kHz~30MHz	RBW 9kHz for QP
Frequency Range: 30MHz~1000MHz	RBW 120kHz for Peak

Note: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For radiated emissions from 9kHz to 1GHz test distance is 3m

For 9kHz ~ 30MHz

- 1. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 2. Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
- 3. specific line  $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$
- 4. Limit line = specific limits  $(dB\mu V/m)$  + distance extrapolation factor.

#### 3.2.2 **Measuring Instruments**

See list of measuring equipment of this test report.

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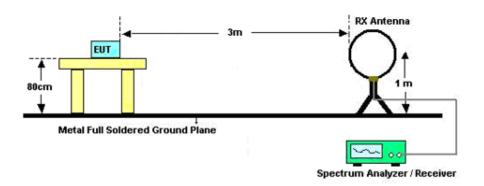
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## 3.2.3 Measuring Instrument Setting

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission for three EUT orthogonal planes, and adjusting the measurement antenna height and polarization. A pre-amp and a high pass filter are used for this test in order to get the good signal level.

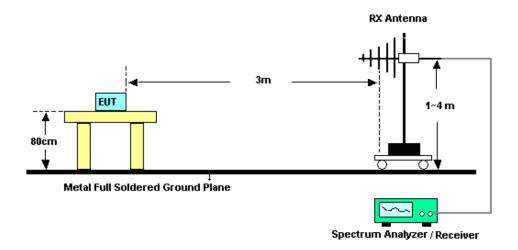
## 3.2.4 Test Setup of Radiated Emission

### For radiated emissions below 30MHz



**Note:** There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

### For radiated emissions above 30MHz



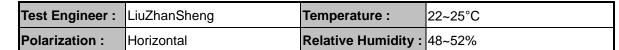
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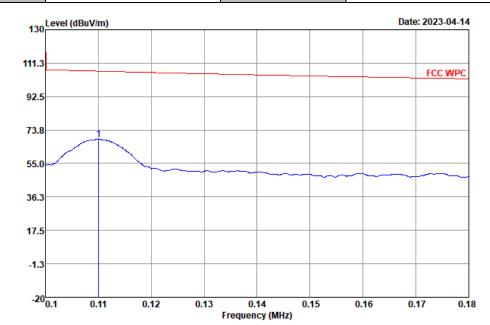
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## 3.2.5 Test Result of Fundamental Emission





Site : 03CH05-SZ

Condition : FCC WPC 3m LOOP ANTENNA - 3164 HORIZONTAL

0.11008 68.45 -38.32 106.77 47.98 20.44

Plane : X with Accessory

Over Limit ReadAntenna Cable A/Pos T/Pos
Freq Level Limit Line Level Factor Loss Remark

MHz dBuV/m dB dBuV/m dBuV dB/m dB cm deg

0.03

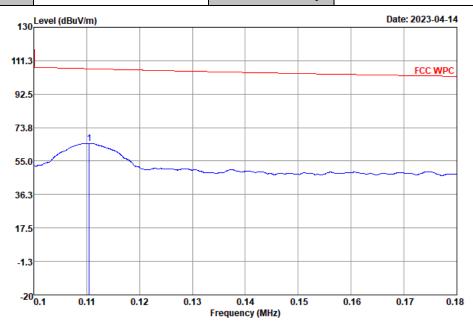
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Test Engineer :LiuZhanShengTemperature :22~25°CPolarization :VerticalRelative Humidity :48~52%



Site : 03CH05-SZ

Condition : FCC WPC 3m LOOP ANTENNA - 3164 VERTICAL

Plane : X with Accessory

Over Limit ReadAntenna Cable A/Pos T/Pos
Freq Level Limit Line Level Factor Loss Remark

MHz dBuV/m dB dBuV/m dBuV dB/m dB cm deg

1 0.11048 64.98 -41.76 106.74 44.51 20.44 0.03 --- QP

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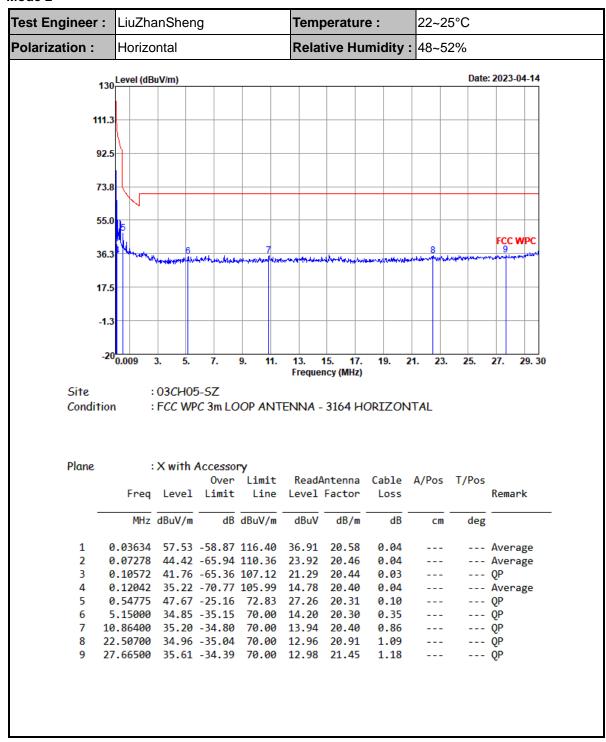
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## 3.2.6 Test Result of Radiated Emission (9kHz ~ 30MHz)

### Mode 2

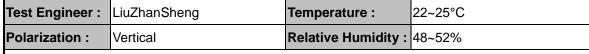


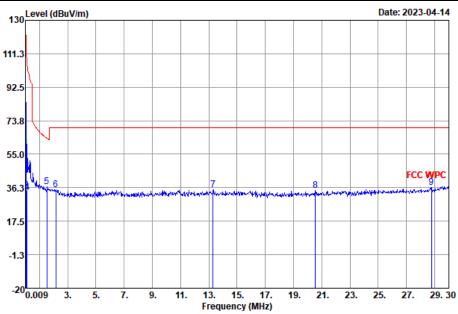
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FCC RF Test Report





Site : 03CH05-SZ

Condition : FCC WPC 3m LOOP ANTENNA - 3164 VERTICAL

Plane : X with Accessory

			Over	Limit	Kead/	Antenna	Cable	A/Pos	1/Pos	
	Freq	Level	Limit	Line	Level	Factor	Loss			Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg	
1	0.03639	58.57	-57.82	116.39	37.95	20.58	0.04			Average
2	0.07272	46.13	-64.24	110.37	25.63	20.46	0.04			Average
3	0.10608	34.91	-72.18	107.09	14.44	20.44	0.03			QP
4	0.12246	33.55	-72.29	105.84	13.11	20.40	0.04			Average
5	1.53195	37.03	-26.87	63.90	16.50	20.32	0.21			QP
6	2.17400	35.12	-34.88	70.00	14.62	20.31	0.19			QP
7	13.30400	34.99	-35.01	70.00	13.63	20.45	0.91			QP
8	20.54500	34.82	-35.18	70.00	13.03	20.74	1.05			QP
9	28.77500	36.21	-33.79	70.00	13.45	21.57	1.19			QP
										-

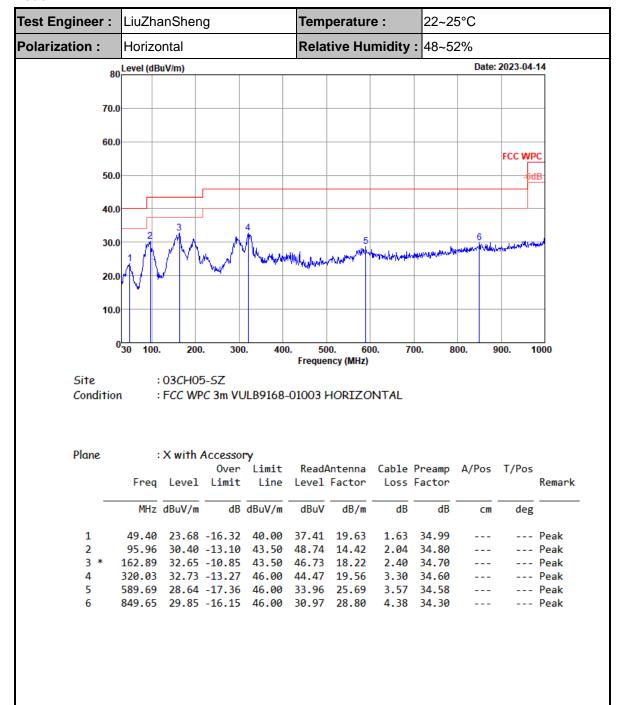
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## 3.2.7 Test Result of Radiated Emission (30MHz ~ 1000MHz)

### Mode 2

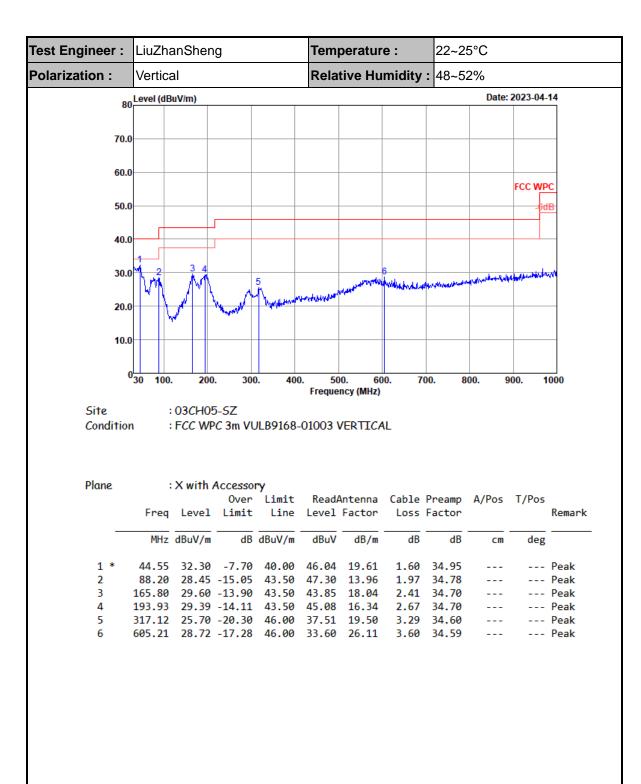


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## 3.3 AC Conducted Emission Measurement

## 3.3.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission	Conducted I	Limit (dΒμV)
(MHz)	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

<sup>\*</sup>Decreases with the logarithm of the frequency.

## 3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

## 3.3.3 Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

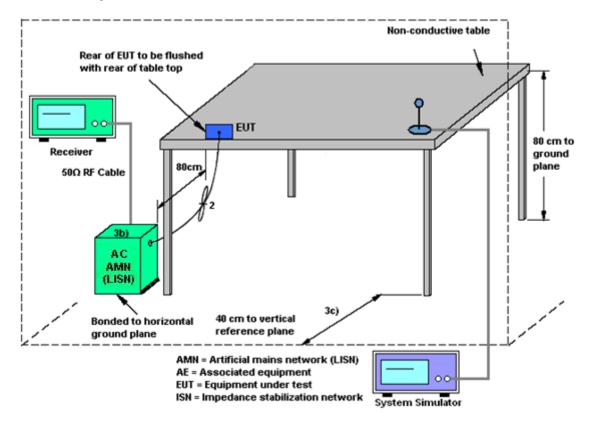
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## 3.3.4 Test Setup

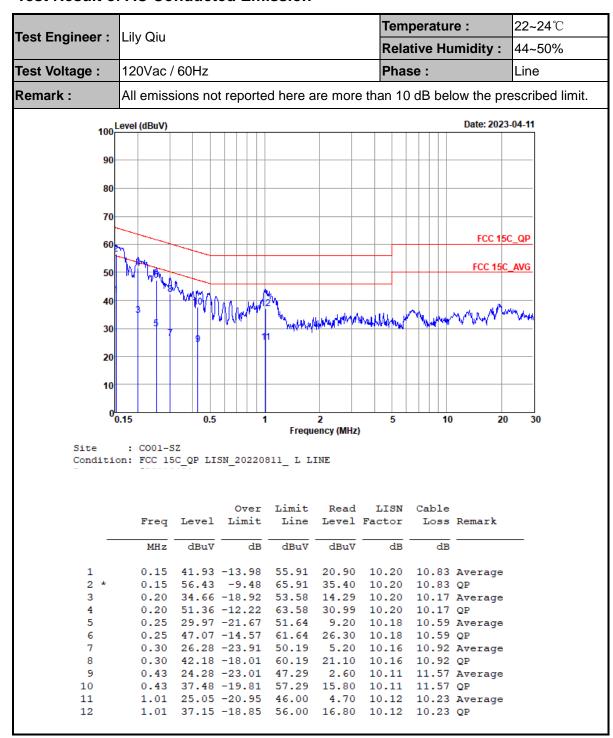


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## 3.3.5 Test Result of AC Conducted Emission

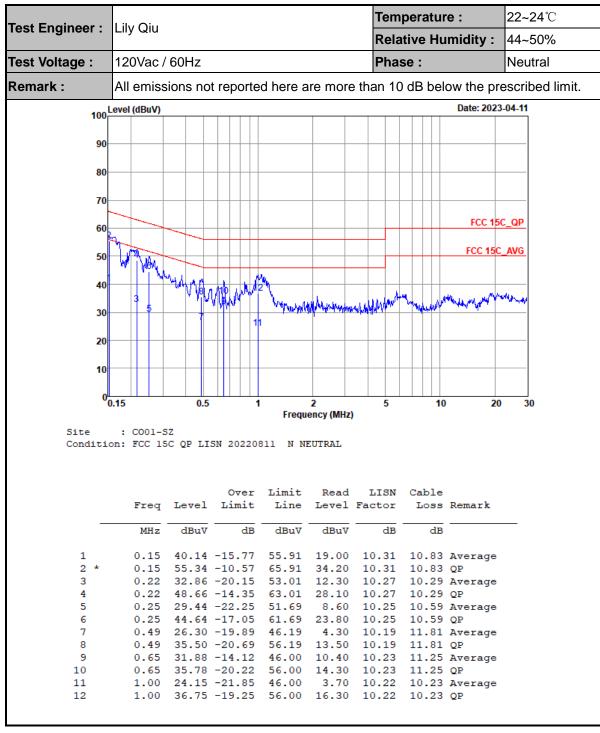


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### Note:

- 1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- 2. Over Limit(dB) = Level(dB $\mu$ V) Limit Line(dB $\mu$ V)

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#### 3.4 **Antenna Requirements**

#### 3.4.1 **Standard Applicable**

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited.

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

## 3.4.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

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# 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 06, 2022	Apr. 05, 2023	Apr. 05, 2023	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	102261	9kHz~7GHz	Apr. 04, 2023	Apr. 14, 2023	Apr. 03, 2024	Radiation (03CH05-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Apr. 14, 2023	Jul. 27, 2024	Radiation (03CH05-SZ)
Log-periodic Antenna	SCHWARZBE CK	VULB 9168	01001	20MHz~1.5GHz	Jun.28, 2022	Apr. 14, 2023	Jun. 27, 2023	Radiation (03CH05-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz ~3000MHz	Apr. 04, 2023	Apr. 14, 2023	Apr. 03, 2024	Radiation (03CH05-SZ)
AC Power Source	APC	AFV-S-600	F11905001	N/A	Nov.10.2022	Apr. 14, 2023	Nov.09.2023	Radiation (03CH05-SZ)
Turn Table	EMEC	T-200-S-1	060925-T	0~360 degree	NCR	Apr. 14, 2023	NCR	Radiation (03CH05-SZ)
Antenna Mast	EMEC	MBS-400-1	060927	1 m~4 m	NCR	Apr. 14, 2023	NCR	Radiation (03CH05-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 07, 2022	Apr. 11, 2023	Jul. 06 2023	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Sept. 15, 2022	Apr. 11, 2023	Sept. 14, 2023	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 17, 2022	Apr. 11, 2023	Oct. 16, 2023	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000 891	100Vac~250Vac	Jul.07, 2022	Apr. 11, 2023	Jul. 06, 2023	Conduction (CO01-SZ)

NCR: No Calibration Required

Sporton International Inc. (ShenZhen)

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# 5 Uncertainty of Evaluation

## Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence	2.2dB
of 95% (U = 2Uc(y))	<b>2.2U</b> B

## Uncertainty of Radiated Emission Measurement (9 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence	2 EAD
of 95% (U = 2Uc(y))	2.5dB

## Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence	4.2dB
of 95% (U = 2Uc(y))	4.2ub

----- THE END -----

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