# **FCC Test Report**

APPLICANT : Zhejiang Lingzhu Technology Co., Ltd.

**EQUIPMENT**: Smart Control Panel L

MODEL NAME : TPP05-Z(US) FCC ID : 2BEWX-TPP05

STANDARD : 47 CFR Part 15 Subpart B

**CLASSIFICATION**: Certification

TEST DATE(S) : Aug. 10, 2023 ~ Mar. 27, 2024

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 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. (Kunshan), the test report shall not be reproduced except in full.

JasonJia

Approved by: Jason Jia





Report No.: FC372501-02

Sporton International Inc. (Kunshan)

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

Sporton International Inc. (Kunshan)

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## **REVISION HISTORY**

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC372501-02	Rev. 01	Initial issue of report	Jul. 23, 2024

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### SUMMARY OF TEST RESULT

Report Section	FCC Rule Description Limit		Result	Remark	
					Under limit
3.1	15.107	07 AC Conducted Emission	< 15.107 limits	PASS	6.23 dB at
					0.535 MHz
	15.109	15.109 Radiated Emission	< 15.109 limits	PASS	Under limit
3.2					1.96 dB at
3.2					87.23 MHz
					for Quasi-Peak

Note: This is a change FCC ID report. Since no changes have been made to this device, therefore, all test cases were leveraged from original report (FCC ID: 2A789-TPP05, report number FC372501-01)

#### Conformity Assessment Condition:

The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. Please refer to each test results in the section "Measurement Uncertainty".

#### Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

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## 1. General Description

## 1.1. Applicant

#### Zhejiang Lingzhu Technology Co., Ltd.

Room 302, No 1 Building Huace Center, Xihu District, Hangzhou City, Zhejiang Province, China

### 1.2. Manufacturer

#### Zhejiang Lingzhu Technology Co., Ltd.

Room 302, No 1 Building Huace Center, Xihu District, Hangzhou City, Zhejiang Province, China

## 1.3. Product Feature of Equipment Under Test

	Product Feature
Equipment	Smart Control Panel L
Model Name	TPP05-Z(US)
FCC ID	2BEWX-TPP05
	WLAN 2.4GHz 802.11b/g/n HT20/HT40
EUT supports Radios application	WLAN 5GHz 802.11a/n HT20/HT40
	2.4GHz Zigbee , Bluetooth LE

#### Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. There are two samples under test, they are only different for LCD panel. According to the difference, Sample 1 perform full test and Sample 2 verify the worst case.

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## 1.4. Product Specification of Equipment Under Test

Stan	Standards-related Product Specification					
	802.11b/g/n: 2400 MHz ~ 2483.5 MHz					
	802.11a/n: 5150 MHz ~ 5250 MHz;					
	5250 MHz ~ 5350 MHz;					
Tx Frequency	5470 MHz ~ 5725 MHz					
	5725 MHz ~ 5850 MHz					
	Zigbee: 2405 MHz ~ 2480 MHz					
	Bluetooth LE: 2400 MHz ~ 2483.5 MHz					
	802.11b/g/n: 2400 MHz ~ 2483.5 MHz					
	802.11a/n: 5150 MHz ~ 5250 MHz;					
	5250 MHz ~ 5350 MHz;					
Rx Frequency	5470 MHz ~ 5725 MHz					
	5725 MHz ~ 5850 MHz					
	Zigbee: 2405 MHz ~ 2480 MHz					
	Bluetooth LE: 2400 MHz ~ 2483.5 MHz					
Antonno Timo	WLAN/Zigbee : IPEX Antenna					
Antenna Type	Bluetooth : IPEX Antenna					
	802.11b: DSSS (DBPSK / DQPSK / CCK)					
Type of Modulation	802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)					
Type of Modulation	Bluetooth LE : GFSK					
	Zigbee : O-QPSK					

## 1.5. Modification of EUT

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

### 1.6. Test Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)						
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL: +86-512-57900158						
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.				
	CO01-KS 03CH07-KS	CN1257	314309				

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### 1.7. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH07-KS	AUDIX	E3	210616
2.	CO01-KS	AUDIX	E3	6.2009-8-24

## 1.8. Applicable Standards

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

- 47 CFR Part 15 Subpart B
- ANSI C63.4-2014

**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

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 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 (30MHz to the 5th harmonic of the highest frequency or to 40 GHz, whichever is lower).

Test Items	Function Type
	Mode 1: Zigbee Link + WLAN (2.4G) Idle + Microphone on + LAN link (RJ45) + L1+L2 light link + RS485 Link + AC Power for Sample 1
	Mode 2: WLAN (5G) Idle + Speaker + LAN link (RJ45) + L1+L2 light link + RS485 Link + AC Power for Sample 1
AC Conducted Emission	Mode 3: WLAN (5G) Idle + Speaker + LAN link (RJ45) + L1+L2 light link + RS485 Link + AC Power for Sample 2
	Mode 4: BLE Idle + WLAN (5G) Idle + Speaker + LAN link (RJ45) + L1+L2 light link + RS485 Link + AC Power for Sample 1
	Mode 5: BLE Idle + WLAN (5G) Idle + Speaker + LAN link (RJ45) + L1+L2 light link + RS485 Link + AC Power for Sample 2
	Mode 1: Zigbee Link + WLAN (2.4G) Idle + Microphone on + LAN link (RJ45) + L1+L2 light link + RS485 Link + AC Power for Sample 1
	Mode 2: WLAN (5G) Idle + Speaker + LAN link (RJ45) + L1+L2 light link + RS485 Link + AC Power for Sample 1
Radiated Emissions	Mode 3: Zigbee Link + WLAN (2.4G) Idle + Microphone on + LAN link (RJ45) + L1+L2 light link + RS485 Link + AC Power for Sample 2
	Mode 4: BLE Idle + Zigbee Link + WLAN (2.4G) Idle + Microphone on + LAN link (RJ45) + L1+L2 light link + RS485 Link + AC Power for Sample 1
	Mode 5: BLE Idle + Zigbee Link + WLAN (2.4G) Idle + Microphone on + LAN link (RJ45) + L1+L2 light link + RS485 Link + AC Power for Sample 2

#### Remark:

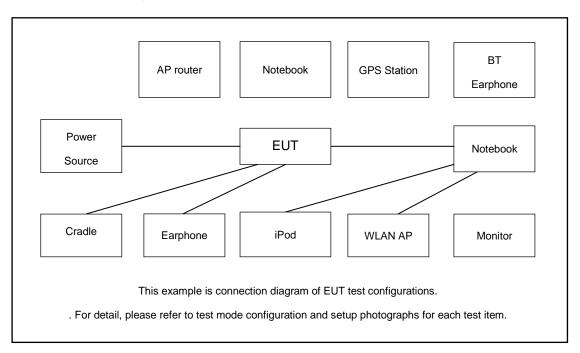
- 1. The worst case of AC is mode 4; only the test data of this mode is reported.
- 2. The worst case of RE is mode 1; only the test data of this mode is reported.

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## 2.2. Connection Diagram of Test System



The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

## 2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
2.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	Shielded cable DC O/P 1.8m, Unshielded AC I/P cable 1.8m
3.	Light	N/A	N/A	N/A	N/A	N/A
4.	AC Power	N/A	N/A	N/A	N/A	N/A
5.	BLE Sub-device	N/A	N/A	N/A	N/A	N/A

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## 3. Test Result

#### **Test of AC Conducted Emission Measurement**

#### 3.1.1 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.

#### <Class B Limit>

Frequency of emission	Conducted limit (dBuV)			
(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.

### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.1.3 Test Procedure

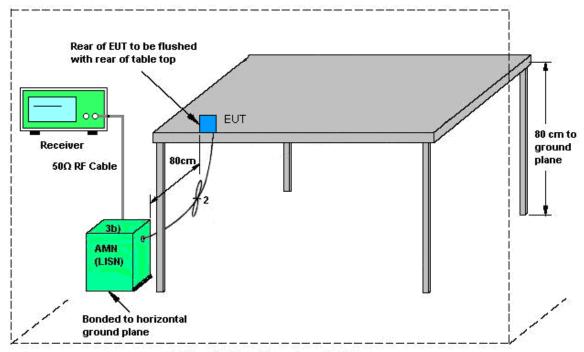
- The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN. 3.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 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 = 8. 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

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## 3.1.4 Test Setup



AMN = Artificial mains network (LISN)

AE = Associated equipment

EUT = Equipment under test

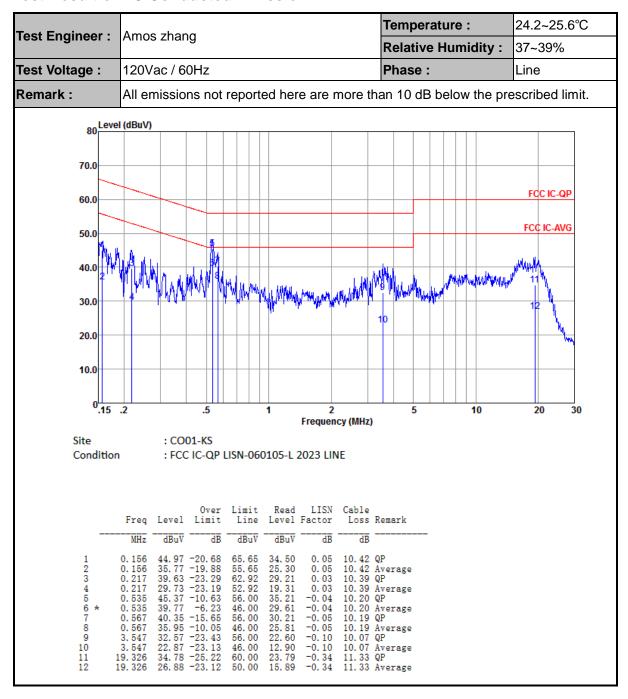
ISN = Impedance stabilization network

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#### 3.1.5 Test Result of AC Conducted Emission



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Temperature: 24.2~25.6°C Test Engineer: Amos zhang **Relative Humidity:** 37~39% Test Voltage: 120Vac / 60Hz Phase: Neutral Remark: All emissions not reported here are more than 10 dB below the prescribed limit. 80 Level (dBuV) 70.0 FCC IC-QP 60.0 FCC IC-AVG 50.0 30.0 20.0 10.0 .5 2 30 Frequency (MHz) Site : CO01-KS Condition : FCC IC-QP LISN-060105-N 2023 NEUTRAL Read LISN Cable Line Level Factor Loss Remark Level Limit MHz dBuV dB dBuV dBuV dB 44. 96 -20. 78 36. 36 -19. 38 45. 33 -10. 67 38. 93 -7. 07 33. 14 -22. 86 22. 44 -23. 56 31. 43 -24. 57 22. 13 -23. 87 35. 60 -24. 40 26. 20 -23. 80 35. 27 -24. 73 27. 57 -22. 43 65. 74 55. 74 56. 00 46. 00 56. 00 25. 90 35. 20 28. 80 23. 20 12. 50 21. 50 0. 04 -0. 07 10.42 Average 10.20 QP 0.155 0.535 0. 535 3. 603 -0.07 -0.13 10.20 Average 10.07 QP 46. 00 56. 00 46. 00 603 -0. 13 -0. 13 3, 943 10.06 QP

10.06

11.24 QP 11.24 Average 11.33 QP

11.33 Average

#### Note:

1. Level(dB $\mu$ V) = Read Level(dB $\mu$ V) + LISN Factor(dB) + Cable Loss(dB)

60.00 50.00

60.00 50,00

24. 50 15. 10 24. 20

16, 50

-0. 14 -0. 14 -0. 26

2. Over Limit(dB) = Level(dB $\mu$ V) – Limit Line(dB $\mu$ V)

16. 140 16. 140

10

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## 3.2. Test of Radiated Emission Measurement

### 3.2.1. Limit of Radiated Emission

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

#### <Class B Limit>

Frequency	Field Strength	Measurement Distance		
(MHz)	(microvolts/meter)	(meters)		
30 – 88	100	3		
88 – 216	150	3		
216 - 960	200	3		
Above 960	500	3		

## 3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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#### 3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level (dB $\mu$ V/m) = 20 log Emission level ( $\mu$ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 10. Exploratory radiated emissions testing of handheld and/or body-worn devices shall include rotation of the EUT through three orthogonal axes (X/Y/Z Plane) to determine the orientation (attitude) that maximizes the emissions.

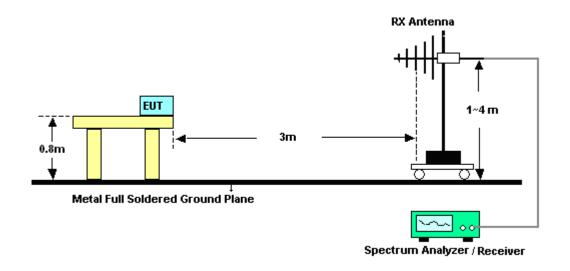
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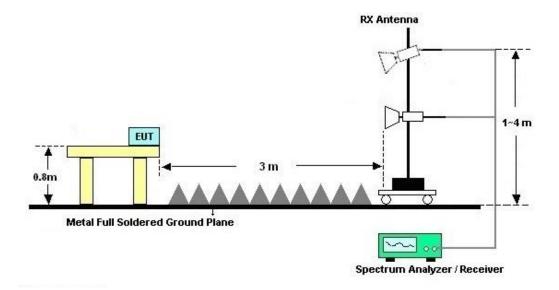
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## 3.2.4. Test Setup of Radiated Emission

#### For radiated emissions from 30MHz to 1GHz



#### For radiated emissions above 1GHz

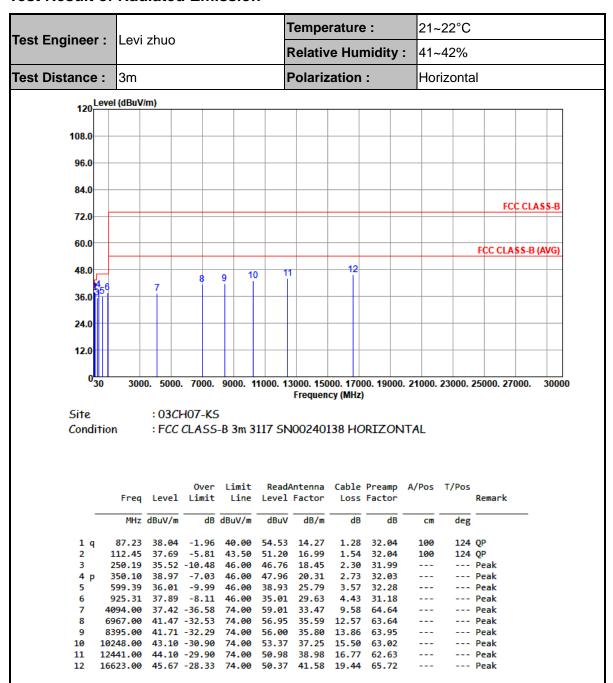


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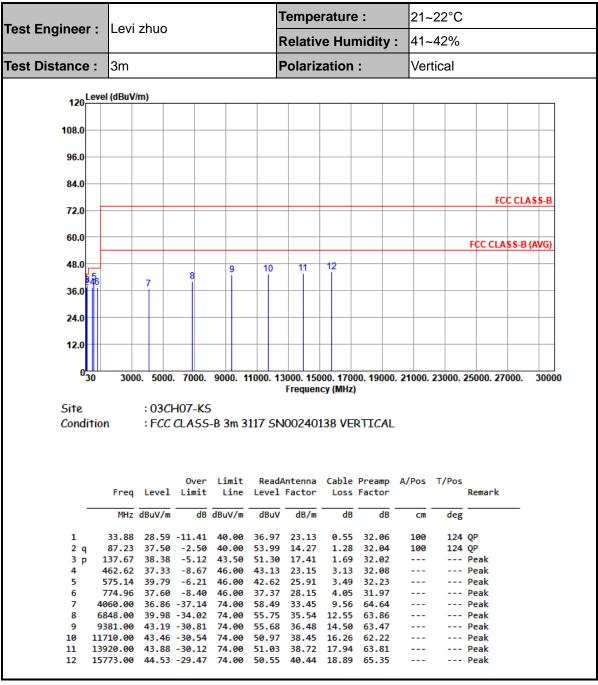
#### 3.2.5. Test Result of Radiated Emission



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### Note:

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

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## 4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	May 16, 2023	Mar. 27, 2024	May 15, 2024	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 11, 2023	Mar. 27, 2024	Oct. 10, 2024	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May 16, 2023	Mar. 27, 2024	May 15, 2024	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP0000008 11	AC 0V~300V, 45Hz~1000Hz	Oct. 11, 2023	Mar. 27, 2024	Oct. 10, 2024	Conduction (CO01-KS)
Power bar	SP101EA	CN02	-	150kHz~30MHz	May 16, 2023	Mar. 27, 2024	May 15, 2024	Conduction (CO01-KS)
AC LISN	R&S	ENV216	100334	9kHz~30MHz	Oct. 11, 2023	Mar. 27, 2024	Oct. 10, 2024	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101403	9kHz~7GHz;Ma x 30dBm	Oct. 12, 2022	Mar. 27, 2024	Oct. 11, 2023	Radiation (03CH07-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Oct. 12, 2022	Mar. 27, 2024	Oct. 11, 2023	Radiation (03CH07-KS)
Bilog Antenna	TeseQ	CBL6111D	59913	30MHz-1GHz	Aug. 26, 2022	Mar. 27, 2024	Aug. 25, 2023	Radiation (03CH07-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00240132	1GHz~18GHz	Jul. 08, 2022	Mar. 27, 2024	Jul. 07, 2023	Radiation (03CH07-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Oct. 17, 2022	Mar. 27, 2024	Oct. 16, 2023	Radiation (03CH07-KS)
Amplifier	EM	EM18G40GGA	060851	18~40GHz	Jan. 05, 2023	Mar. 27, 2024	Jan. 04, 2024	Radiation (03CH07-KS)
Amplifier	SONOMA	310N	413741	9KHz-1GHz	Jan. 05, 2023	Mar. 27, 2024	Jan. 04, 2024	Radiation (03CH07-KS)
Amplifier	EM	EM01G18GA	060834	1Ghz-18Ghz	Oct. 12, 2022	Mar. 27, 2024	Oct. 11, 2023	Radiation (03CH07-KS)
AC Power Source	Chroma	61601	61601000247 3	N/A	NCR	Mar. 27, 2024	NCR	Radiation (03CH07-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	Mar. 27, 2024	NCR	Radiation (03CH07-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	Mar. 27, 2024	NCR	Radiation (03CH07-KS)

NCR: No Calibration Required

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## 5. Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence	2.84dB
of 95% (U = 2Uc(y))	

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

Measuring Uncertainty for a Level of Confidence	6.20dB
of 95% (U = 2Uc(y))	

#### <u>Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)</u>

Measuring Uncertainty for a Level of Confidence	4.86dB
of 95% (U = 2Uc(y))	

### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence	5.24dB
of 95% (U = 2Uc(y))	5.24uB

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