FCC TEST REPORT

For

Shenzhen Jinlishun Technology Co., Ltd.

Portable Bluetooth Speaker with Wireless Charging

Test Model: WJ-202

Additional Model No.: 79231PI

Prepared for	:	Shenzhen Jinlishun Technology Co., Ltd.
Address	:	3/F, Building 22, Chuangye Road, Ai Lianhe Industrial Zone, Longcheng Street, Longgang District, Shenzhen, China
Prepared by	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample	:	August 28, 2021
Number of tested samples	:	2
Sample No.	:	210827063A-1, 210827063A-2
Serial number	:	Prototype
Date of Test	:	August 28, 2021 ~ September 06, 2021
Date of Report	:	September 08, 2021

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FCC TEST REPORT
FCC CFR 47 PART 18

Report Reference No.	**:**	**LCS210827063AEC**
Date Of Issue.....	:	September 08, 2021
Testing Laboratory Name.....	**:**	**Shenzhen LCS Compliance Testing Laboratory Ltd.**
Address.....	:	101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Testing Location/ Procedure.....	:	Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method □
Applicant's Name.....	**:**	**Shenzhen Jinlishun Technology Co., Ltd.**
Address.....	:	3/F, Building 22, Chuangye Road, Ai Lianhe Industrial Zone, Longcheng Street, Longgang District, Shenzhen, China
Test Specification		
Standard.....	:	FCC CFR 47 PART 18
Test Report Form No.....	:	LCSEMC-1.0
TRF Originator.....	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF.....	:	Dated 2011-03

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Test Item Description.....	**:**	**Portable Bluetooth Speaker with Wireless Charging**
Trade Mark.....	:	i-box
Test Model.....	:	WJ-202
Power Supply.....	:	For Bluetooth speaker: Powered by Lithium battery: 3.7Vdc, 4000mAh, 14.8Wh Recharged Input: 5V⎓, 3A Max.or 9V⎓, 2A Max. For wireless charging: Input: 9V⎓, 2A Max. Output: 5V⎓, 10W Max.
Result	**:**	**Positive**

Compiled by:	**Supervised by:**	**Approved by:**
Diamond Lu/ Administrators	Jin Wang/ Technique principal	Gavin Liang/ Manager

FCC TEST REPORT

Test Report No. : **LCS210827063AEC**	September 08, 2021 Date of issue

Test Model.....	: WJ-202
EUT.....	: Portable Bluetooth Speaker with Wireless Charging
Applicant.....	**: Shenzhen Jinlishun Technology Co., Ltd.**
Address.....	: 3/F, Building 22, Chuangye Road, Ai Lianhe Industrial Zone, Longcheng Street, Longgang District, Shenzhen, China
Telephone.....	: /
Fax.....	: /
Manufacturer.....	**: Hongye Electronics Factory**
Address.....	: 5/Floor, Block 3, Jinye Science and Technology Park, Xiabian Village, Liaobu Town, Dongguan City, China
Telephone.....	: /
Fax.....	: /
Factory.....	: **Hongye Electronics Factory**
Address.....	: 5/Floor, Block 3, Jinye Science and Technology Park, Xiabian Village, Liaobu Town, Dongguan City, China
Telephone.....	: /
Fax.....	: /

Test Result	**Positive**

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

Revision History

Revision	Issue Date	Revisions	Revised By
000	September 08, 2021	Initial Issue	Gavin Liang

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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT	:	Portable Bluetooth Speaker with Wireless Charging
Test Model	:	WJ-202
Additional Model No.	:	79231PI
Model Declaration	:	PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Power Supply	:	For Bluetooth speaker: Powered by Lithium battery: 3.7Vdc, 4000mAh, 14.8Wh Recharged Input: 5V⎓, 3A Max.or 9V⎓, 2A Max. For wireless charging: Input: 9V⎓, 2A Max. Output: 5V⎓, 10W Max..
Hardware Version	:	V01
Software Version	:	5.0
Bluetooth	:	
Frequency Range	:	2402MHz ~ 2480MHz
Chanel Number	:	79 channels for Bluetooth V5.0(DSS) 40 channels for Bluetooth V5.0(DTS)
Chanel Spacing	:	1MHz for Bluetooth V5.0(DSS) 2MHz for Bluetooth V5.0(DTS)
Modulation Type	:	GFSK, π/4-DQPSK for Bluetooth V5.0(DSS) GFSK for Bluetooth V5.0(DTS)
Bluetoth Version	:	V5.0
Antenna Description	:	PCB Antenna, -0.58dBi(Max.)
Wireless Charging	:	
Operating Frequency	:	110.0~205.0KHz
Modulation Type	:	MSK
Antenna Type	:	Coil Antenna

1.2 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
ShenZhen HuaJin Electronics CO., LTD	Adapter	HJ-0502000W2-US	--	FCC
Apple	Phone	ipone 11	--	FCC

Note: Auxiliary equipment is provided by the laboratory.

1.3 External I/O Cable

I/O Port Description	Quantity	Cable
AUX IN Port	1	N/A
Type-C USB Port	1	USB Cable: 1.5m, unshielded

1.4 Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5 Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6 Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Radiation Uncertainty	:	9KHz~30MHz	3.10dB	(1)
		30MHz~200MHz	2.96dB	(1)
		200MHz~1000MHz	3.10dB	(1)
		1GHz~26.5GHz	3.80dB	(1)
		26.5GHz~40GHz	3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	1.63dB	(1)
Power disturbance	:	30MHz~300MHz	1.60dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.7 Description of Test Modes

Equipment under test was operated during the measurement under the following conditions:

☒ Charging and communication mode

Modulation Type: CW (Continuous Wave)

Test Modes:		
Mode 1	AC/DC Adapter + EUT + Mobile Phone iPhone X (Battery Status: <1%)	Record
Mode 2	AC/DC Adapter + EUT + Mobile Phone iPhone X (Battery Status: <50%)	Pre-tested
Mode 3	AC/DC Adapter + EUT + Mobile Phone iPhone X (Battery Status: 100%)	Pre-tested
Note: All test modes were pre-tested, but we only recorded the worst case in this report.		

For AC conducted emission, pre-test at both AC 120V/60Hz and AC 240V/50Hz, recorded worst case;
For AC conducted emission, pre-test at both AC charge from power adapter modes, recorded worst case.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with MP-5, and FCC CFR PART 18.

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT was operated in the charging and compunction mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 18.305 and 18.307 under the FCC Rules Part 18.

2.3 General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in FCC MP-5 for Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in FCC MP-5 for radiated emission.

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3. SYSTEM TEST CONFIGURATION

3.1 Justification

The system was configured for testing in a normal condition.

3.2 EUT Exercise Software

N/A.

3.3 Special Accessories

N/A.

3.4 Block Diagram/Schematics

Please refer to the related document.

3.5 Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6 Test Setup

Please refer to the test setup photo.

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4. SUMMARY OF TEST EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	MXA Signal Analyzer	Agilent	N9020A	MY49100040	2021-06-21	2022-06-20
2	SPECTRUM ANALYZER	R&S	FSP40	100503	2020-11-17	2021-11-16
3	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2021-06-21	2022-06-20
4	Positioning Controller	MF	MF7082	MF78020803	2021-06-21	2022-06-20
5	EMI Test Software	Farad	EZ	/	N/A	N/A
6	EMI Test Receiver	R&S	ESR 7	101181	2021-06-21	2022-06-20
7	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2021-07-25	2024-07-24
8	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-07-25	2024-07-24
9	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-07-01	2024-06-30
10	EMI Test Receiver	R&S	ESPI	101840	2021-06-21	2022-06-20
11	Artificial Mains	R&S	ENV216	101288	2021-06-21	2022-06-20
12	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2021-06-21	2022-06-20

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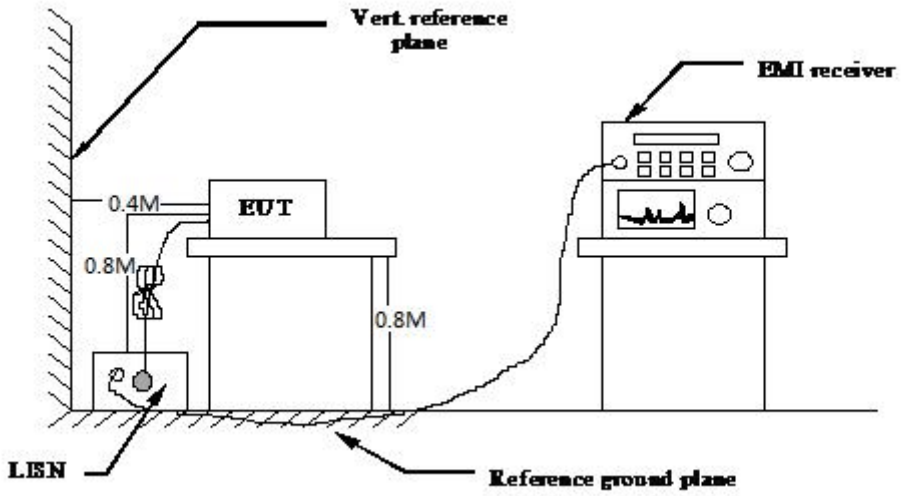
5. SUMMARY OF TEST RESULT

Test Item	FCC Rule No.	Temperature conditions	Power source conditions	C	NC	NA	NP	Remark
Radiated Emission	§18.305 (b)	Nominal	Nominal	☒	☐	☐	☐	-/-
AC conducted emission	§18.307 (a)	Nominal	Nominal	☒	☐	☐	☐	-/-

Remark: The measurement uncertainty is not included in the test result.
N/A – Not Applicable!!!

6. POWER LINE CONDUCTED MEASUREMENT

6.1. Block Diagram of Test Setup



6.2. Standard Applicable

According to §18.307 (b): For all other part 18 consumer devices which 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 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

* Decreasing linearly with the logarithm of the frequency

6.3 Test Results

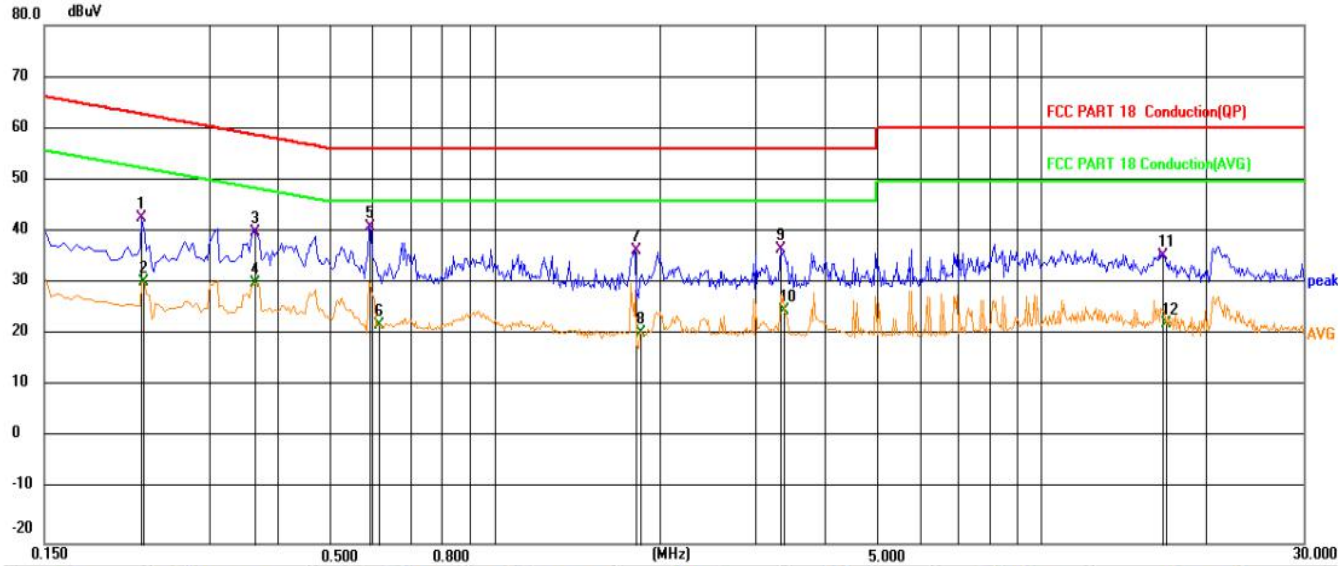
PASS

The test data please refer to following page.

Temperature	23.3℃	Humidity	53.7%
Test Engineer	Jay Li	Configurations	Transmit

AC Power Line Conducted Emission (Power input to adapter @ AC 120V/60Hz (Worst Case))

Line



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.2266	23.02	19.75	42.77	62.57	-19.80	QP
2	0.2268	10.75	19.75	30.50	52.57	-22.07	AVG
3	0.3661	20.20	19.77	39.97	58.59	-18.62	QP
4	0.3661	10.42	19.77	30.19	48.59	-18.40	AVG
5	0.5911	21.25	19.81	41.06	56.00	-14.94	QP
6	0.6136	2.47	19.81	22.28	46.00	-23.72	AVG
7	1.8016	16.64	19.83	36.47	56.00	-19.53	QP
8	1.8421	0.79	19.84	20.63	46.00	-25.37	AVG
9	3.3451	16.81	19.88	36.69	56.00	-19.31	QP
10	3.3856	5.13	19.88	25.01	46.00	-20.99	AVG
11	16.6246	14.76	20.73	35.49	60.00	-24.51	QP
12	16.8721	1.56	20.77	22.33	50.00	-27.67	AVG

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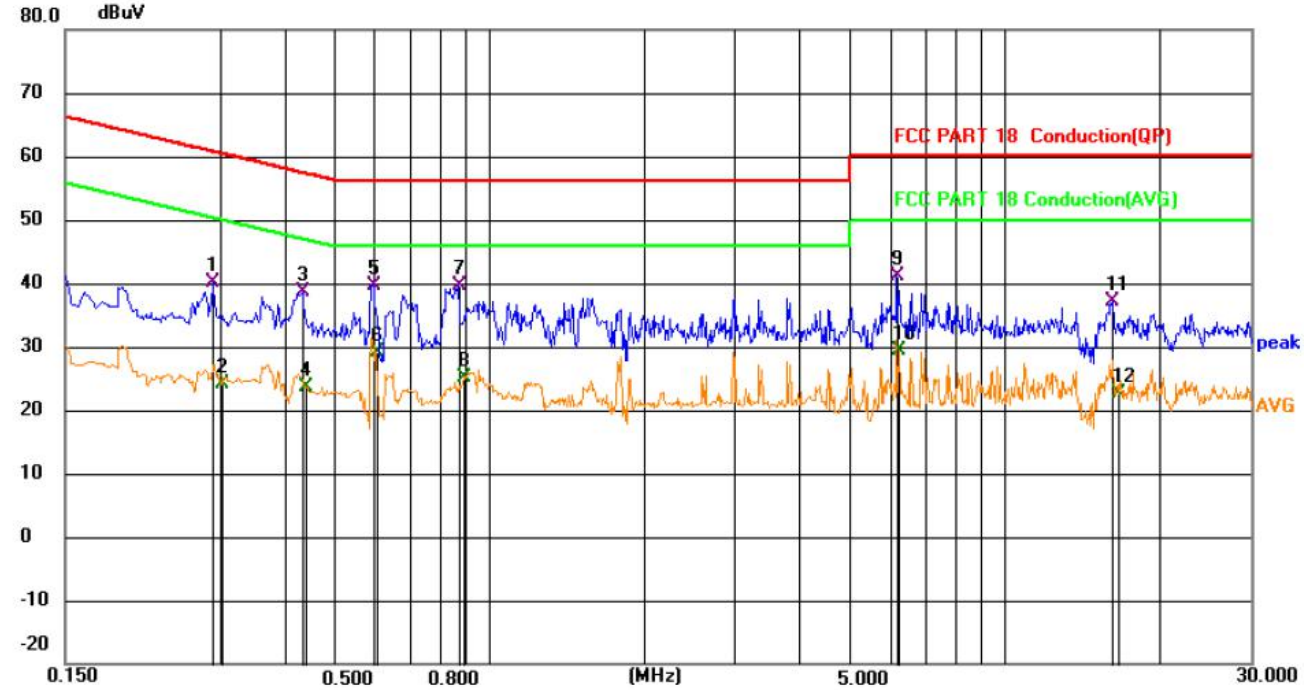
Neutral



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.2896	20.33	19.76	40.09	60.54	-20.45	QP
2	0.3003	4.28	19.76	24.04	50.23	-26.19	AVG
3	0.4336	18.95	19.78	38.73	57.18	-18.45	QP
4	0.4381	3.85	19.78	23.63	47.10	-23.47	AVG
5	0.5955	19.91	19.81	39.72	56.00	-16.28	QP
6	0.6011	9.36	19.81	29.17	46.00	-16.83	AVG
7	0.8701	19.86	19.79	39.65	56.00	-16.35	QP
8	0.8926	5.30	19.79	25.09	46.00	-20.91	AVG
9	6.1621	21.30	19.95	41.25	60.00	-18.75	QP
10	6.2431	9.44	19.95	29.39	50.00	-20.61	AVG
11	16.1656	16.51	20.66	37.17	60.00	-22.83	QP
12	16.6156	1.84	20.72	22.56	50.00	-27.44	AVG

Remark: 1) Pre-scan all modes and recorded the worst case results in this report.
2). Result = Reading + Correct, Margin = Result – Limit.

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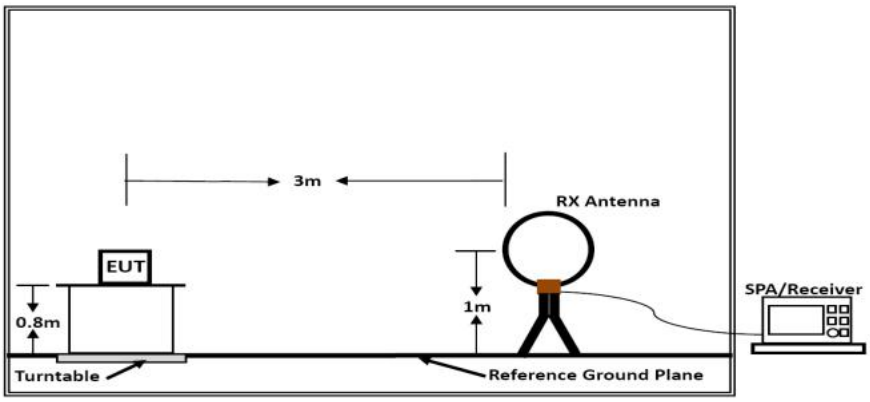
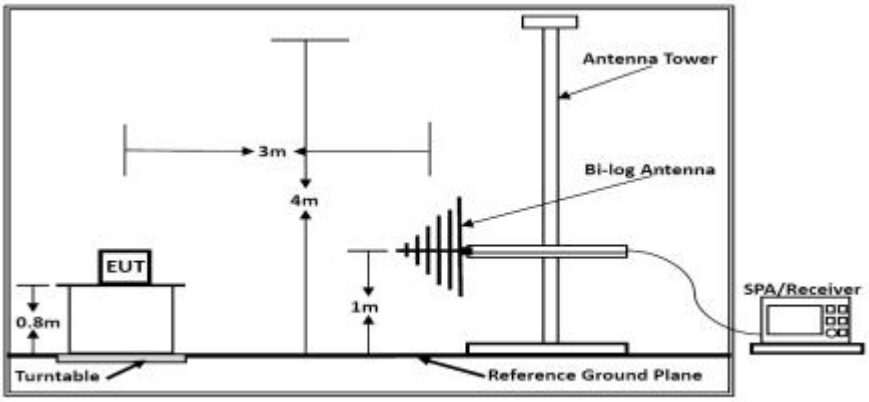
7. RADIATED EMISSION MEASUREMENT

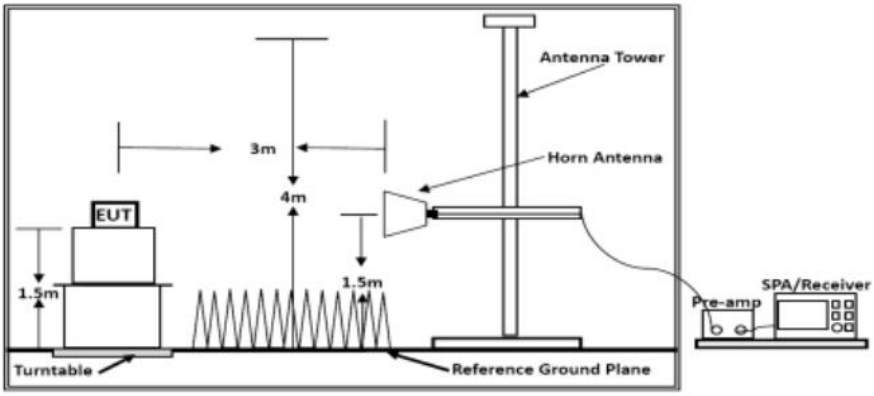
7.1. Block Diagram of Test Setup



Below 30MHz



Below 1GHz



Above 1GHz

7.2. Radiated Emission Limit

Except as provided elsewhere in this Subpart 18.305 (b), the field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following table:

Frequency MHz	Distance Meters	Field Strengths Limit	
		dBμV/m	Remark
0.009~30MHz	3	103.5	Quasi-peak

Remark:
(1) Emission level dBμV/m for 0.009~30MHz = 20log (15) + 40log (300/3) dBμV/m;
(2) Calculated according FCC 18.305.
(3) The smaller limit shall apply at the cross point between two frequency bands.
(4) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

7.3. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.4. Operating Condition of EUT

(1) Setup the EUT as shown in Section 4.1.

(2) Let the EUT work in worst test mode (Mode 1) and measure it.

7.5. Measuring Setting

The following table is the setting of spectrum analyzer and receiver.

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP/Average
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP/Average
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

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7.6. Test Procedure

1) Sequence of testing 9 kHz to 30 MHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions.

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna height is 1.0 meter.

--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

--- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

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2) Sequence of testing 30 MHz to 1 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna is polarized vertical and horizontal.

--- The antenna height changes from 1 to 3 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.

--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

7.7. Test Results

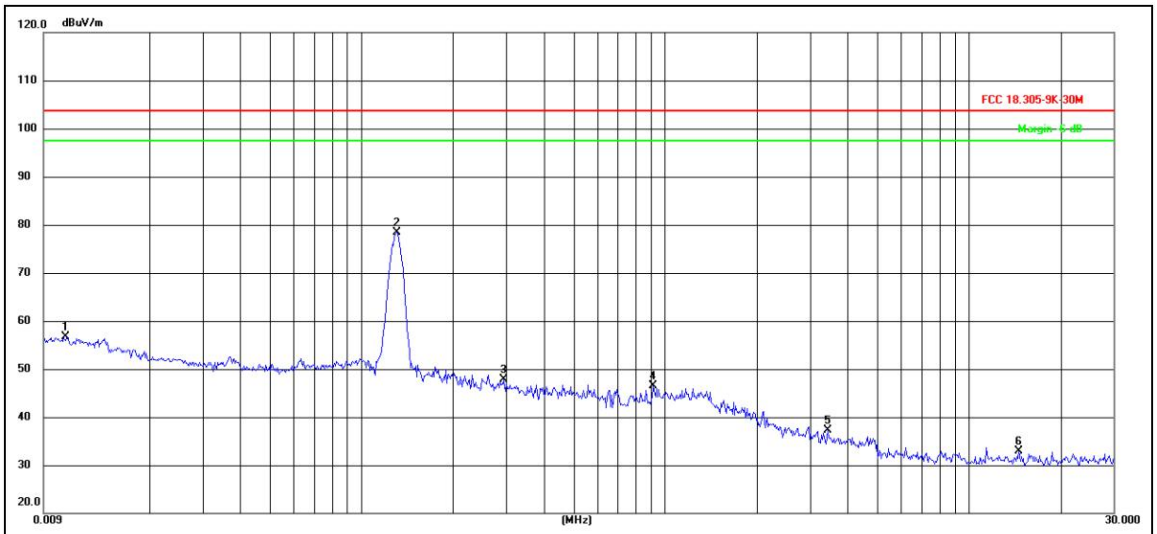
PASS.

Only report the worst test data (Mode 1) in test report;

The test data please refer to following page:

Temperature	21.1℃	Humidity	52.2%
Test Engineer	Jay Li	Configurations	Transmit

0.009 MHz – 30 MHz



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.0106	35.87	20.77	56.64	103.50	-46.86	QP
2 *	0.1307	57.82	20.67	78.49	103.50	-25.01	QP
3	0.2943	27.35	20.49	47.84	103.50	-55.66	QP
4	0.9167	26.05	20.53	46.58	103.50	-56.92	QP
5	3.4395	16.80	20.50	37.30	103.50	-66.20	QP
6	14.6928	12.48	20.40	32.88	103.50	-70.62	QP

****Note:*
1. Final Measurement Level = Reading + Correct Factor.
2. Measured at antenna position 0 degree and 90 degree, recorded worst case at 90 degree.

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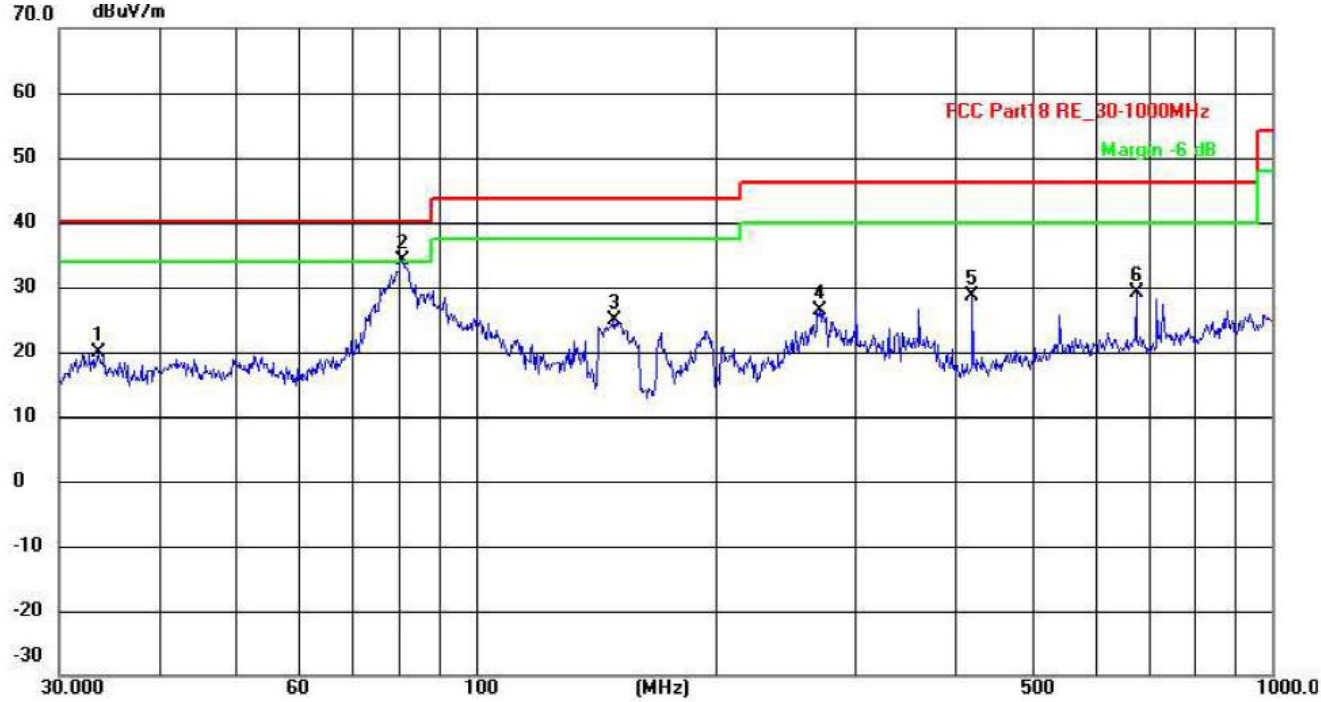
Temperature	21.1℃	Humidity	52.2%
Test Engineer	Jay Li	Configurations	Transmit

Below 1GHz

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	33.6802	51.53	-31.56	19.97	40.00	-20.03	QP
2	80.6442	66.54	-32.53	34.01	40.00	-5.99	QP
3	148.9625	57.88	-33.11	24.77	43.50	-18.73	QP
4	270.3748	55.37	-28.87	26.50	46.00	-19.50	QP
5	420.5803	54.20	-25.47	28.73	46.00	-17.27	QP
6	675.2080	50.23	-21.07	29.16	46.00	-16.84	QP

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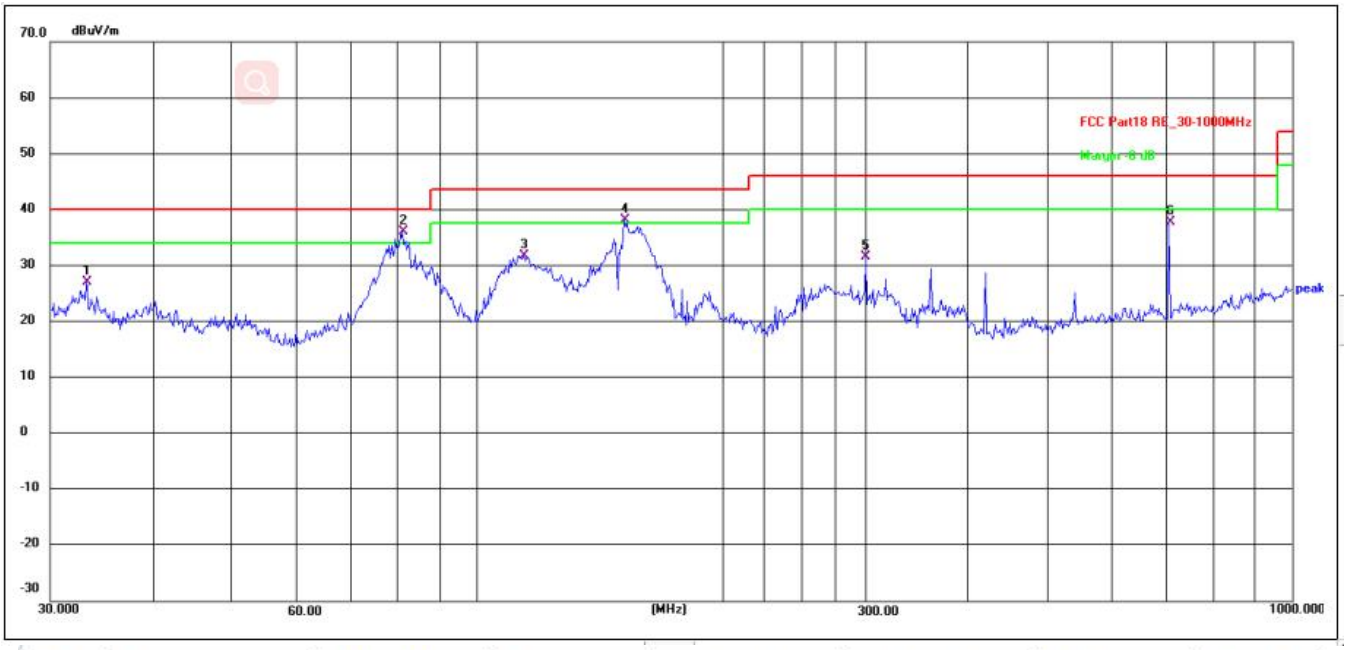
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	33.2112	58.60	-31.59	27.01	40.00	-12.99	QP
2 *	81.2117	68.35	-32.32	36.03	40.00	-3.97	QP
3	114.1138	60.22	-28.42	31.80	43.50	-11.70	QP
4 !	151.5972	71.14	-33.04	38.10	43.50	-5.40	QP
5	300.3672	59.73	-28.21	31.52	46.00	-14.48	QP
6	706.6999	58.45	-20.77	37.68	46.00	-8.32	QP

Remark: 1). Pre-scan all modes and recorded the worst case results in this report
2). Emission level (dBuV/m) = 20 log Emission level (uV/m).
3). Level = Reading + Factor, Margin = Level – Limit,
Factor = Antenna Factor + Cable Loss - Preamp Factor

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8. PHOTOGRAPHS OF TEST SETUP

Please refer to separated files for Test Setup Photos of the EUT.

9. EXTERNAL PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

10. INTERNAL PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

----------THE END OF REPORT----------

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